1085985 - R8 SDMS

COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
CHAIN OF CUSTODY FORM
U.S. Environmental Protection Agency
Region 8 Superfund Program
Contract Laboratory Program (CLP)

Audit Number: 8 (RB-2008-8)
Site Name: Richardson Flat Tailings
Date CSF Received: 9/11/2008
Site Manager: Kathryn Hernandez
Received By: Don Goodrich
Case Number: 37402
Lab Name: DataChem
SDG Number: mH25E8
Lab Location: Salt Lake City, UT
Number of Samples: 3
CLP Lab Code: DATAC
Resubmitted CSF: Yes ____ No X

CSF Relinquished By:

Print Name	Date	Signature
Don Goodrich	10/21/2008	Don Goodrich

CSF Received By:

Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

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Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MH25E8

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Matrix: (soil/water) WATER Lab Sample ID: 8171038001

Level: (low/med) LOW Date Received: 06/18/2008

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	169			MS
7440-36-0	Antimony	1.9	J		MS
7440-38-2	Arsenic	1.3			MS
7440-39-3	Barium	240			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.3			MS
7440-70-2	Calcium	96600			MS
7440-47-3	Chromium	0.82	J		MS
7440-48-4	Cobalt	0.42	J		MS
7440-50-8	Copper	3.1			MS
7439-89-6	Iron	987			MS
7439-92-1	Lead	9.1			MS
7439-95-4	Magnesium	18000			MS
7439-96-5	Manganese	35.9			MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.3			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.46	J		MS
7440-22-4	Silver	0.42	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.51	J		MS
7440-66-6	Zinc	105			MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MH25E9

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Matrix: (soil/water) WATER Lab Sample ID: 8171038002

Level: (low/med) LOW Date Received: 06/18/2008

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3110			MS
7440-36-0	Antimony	3.2			MS
7440-38-2	Arsenic	10.8			MS
7440-39-3	Barium	54.7			MS
7440-41-7	Beryllium	0.21	J		MS
7440-43-9	Cadmium	0.29	J		MS
7440-70-2	Calcium	20300			MS
7440-47-3	Chromium	4.4			MS
7440-48-4	Cobalt	1.3			MS
7440-50-8	Copper	12.0			MS
7439-89-6	Iron	2520			MS
7439-92-1	Lead	36.4			MS
7439-95-4	Magnesium	4110			MS
7439-96-5	Manganese	69.4			MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.3			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.29	J		MS
7440-22-4	Silver	0.68	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	7.6			MS
7440-66-6	Zinc	57.0			MS
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: CLEAR Texture: _____

Color After: BROWN Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MH25F0

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Matrix: (soil/water) WATER Lab Sample ID: 8171038003

Level: (low/med) LOW Date Received: 06/18/2008

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.4			MS
7440-36-0	Antimony	22.4			MS
7440-38-2	Arsenic	4.6			MS
7440-39-3	Barium	33.0			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	29.1			MS
7440-70-2	Calcium	86300			MS
7440-47-3	Chromium	0.64	J		MS
7440-48-4	Cobalt	0.37	J		MS
7440-50-8	Copper	10.1			MS
7439-89-6	Iron	879			MS
7439-92-1	Lead	169			MS
7439-95-4	Magnesium	9680			MS
7439-96-5	Manganese	27.5			MS
7439-97-6	Mercury				NR
7440-02-0	Nickel	4.9			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.3			MS
7440-22-4	Silver	0.29	J		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.49	J		MS
7440-62-2	Vanadium	0.47	J		MS
7440-66-6	Zinc	5650		D	MS
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Initial Calibration Verification Source: EPA-1(1201)

Continuing Calibration Verification Source: I.V.

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	496.00	507.39	102	250.00	240.33	96	241.00	96	MS
Antimony	198.00	197.57	100	250.00	241.82	97	241.74	97	MS
Arsenic	199.00	196.14	99	250.00	244.10	98	246.12	98	MS
Barium	100.00	98.54	99	250.00	241.51	97	242.82	97	MS
Beryllium	99.00	98.55	100	250.00	249.13	100	246.16	98	MS
Cadmium	99.00	98.78	100	250.00	245.10	98	245.43	98	MS
Calcium	2036.00	2049.40	101	1000.00	1055.20	106	970.57	97	MS
Chromium	98.00	94.55	96	250.00	239.88	96	240.87	96	MS
Cobalt	99.00	94.94	96	250.00	238.84	96	239.82	96	MS
Copper	98.00	96.74	99	250.00	241.19	96	241.37	97	MS
Iron	1021.00	1031.80	101	1000.00	1034.50	103	985.38	99	MS
Lead	199.00	195.59	98	250.00	240.91	96	239.56	96	MS
Magnesium	1201.00	1243.00	103	1000.00	1083.90	108	969.75	97	MS
Manganese	99.00	94.53	95	250.00	239.35	96	237.99	95	MS
Mercury									NR
Nickel	98.00	96.84	99	250.00	242.16	97	245.66	98	MS
Potassium									NR
Selenium	201.00	205.64	102	250.00	247.65	99	249.22	100	MS
Silver	99.00	95.28	96	250.00	240.86	96	241.27	97	MS
Sodium									NR
Thallium	205.00	196.83	96	250.00	237.42	95	235.75	94	MS
Vanadium	100.00	96.17	96	250.00	241.28	97	243.03	97	MS
Zinc	200.00	202.89	101	250.00	246.53	99	245.66	98	MS
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: I.V.

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				250.00	238.41	95			MS
Antimony				250.00	240.41	96	239.48	96	MS
Arsenic				250.00	243.09	97	241.14	96	MS
Barium				250.00	243.21	97	241.48	97	MS
Beryllium				250.00	247.23	99	243.11	97	MS
Cadmium				250.00	244.42	98	242.95	97	MS
Calcium				1000.00	983.35	98	971.35	97	MS
Chromium				250.00	239.23	96	237.83	95	MS
Cobalt				250.00	238.29	95	237.71	95	MS
Copper				250.00	239.25	96	238.42	95	MS
Iron				1000.00	980.75	98	975.96	98	MS
Lead				250.00	239.09	96	238.66	95	MS
Magnesium				1000.00	978.38	98	978.83	98	MS
Manganese				250.00	236.87	95	237.04	95	MS
Mercury									NR
Nickel				250.00	242.94	97	240.99	96	MS
Potassium									NR
Selenium				250.00	244.86	98	243.20	97	MS
Silver				250.00	240.50	96	239.55	96	MS
Sodium									NR
Thallium				250.00	235.30	94	234.82	94	MS
Vanadium				250.00	241.56	97	239.99	96	MS
Zinc				250.00	243.72	97	243.16	97	MS
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

CRQL Check Standard Source: I.V.

Concentration Units: ug/L

	CRDL Check Standard				
	Initial			Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	2.00	2.09	105	1.83J	92
Arsenic	1.00	0.98J	98	0.90J	90
Barium	10.00	9.49J	95	9.47J	95
Beryllium	1.00	1.02	102	0.97J	97
Cadmium	1.00	0.99J	99	0.98J	98
Calcium					
Chromium	2.00	1.89J	95	1.85J	93
Cobalt	1.00	0.93J	93	0.90J	90
Copper	2.00	1.96J	98	1.85J	93
Iron					
Lead	1.00	0.96J	96	0.94J	94
Magnesium					
Manganese	1.00	0.94J	94	0.92J	92
Mercury					
Nickel	1.00	1.00J	100	0.97J	97
Potassium					
Selenium	5.00	4.97J	99	4.80J	96
Silver	1.00	0.95J	95	0.94J	94
Sodium					
Thallium	1.00	0.93J	93	0.88J	88
Vanadium	5.00	4.65J	93	4.64J	93
Zinc	2.00	2.43	122	2.32	116
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150.
ICP-MS - Cobalt, Manganese, and Zinc: 50-150.

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury).

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

CRQL Check Standard Source: I.V.

Concentration Units: ug/L

	CRDL Check Standard				
	Initial			Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	2.00			1.88J	94
Arsenic	1.00			0.88J	88
Barium	10.00			9.39J	94
Beryllium	1.00			0.98J	98
Cadmium	1.00			0.93J	93
Calcium					
Chromium	2.00			1.86J	93
Cobalt	1.00			0.90J	90
Copper	2.00			1.89J	95
Iron					
Lead	1.00			0.94J	94
Magnesium					
Manganese	1.00			0.91J	91
Mercury					
Nickel	1.00			0.95J	95
Potassium					
Selenium	5.00			4.74J	95
Silver	1.00			0.95J	95
Sodium					
Thallium	1.00			0.87J	87
Vanadium	5.00			4.68J	94
Zinc	2.00			2.34	117
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150.
ICP-MS - Cobalt, Manganese, and Zinc: 50-150.

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury).

USEPA - CLP

3-IN
BLANKS

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Preparation Blank Matrix (soil/water): WATER

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

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum	0.384	J	12.481	J	1.053	J	20.000	U	15.776	J	MS
Antimony	0.595	J	0.524	J	0.480	J	0.481	J	0.246	J	MS
Arsenic	0.085	J	1.000	U	1.000	U	1.000	U	1.000	U	MS
Barium	0.103	J	0.054	J	0.032	J	0.048	J	0.049	J	MS
Beryllium	0.097	J	0.058	J	0.023	J	0.037	J	1.000	U	MS
Cadmium	0.093	J	0.055	J	0.025	J	0.039	J	0.057	J	MS
Calcium	5.306	J	20.352	J	500.000	U	18.222	J	27.903	J	MS
Chromium	0.086	J	0.066	J	2.000	U	2.000	U	0.240	J	MS
Cobalt	0.087	J	0.053	J	0.026	J	0.030	J	0.044	J	MS
Copper	0.173	J	0.170	J	0.155	J	2.000	U	0.255	J	MS
Iron	3.786	J	-5.692	J	10.000	U	10.000	U	10.000	U	MS
Lead	0.132	J	0.059	J	0.049	J	0.072	J	0.081	J	MS
Magnesium	0.991	J	15.449	J	500.000	U	2.236	J	18.376	J	MS
Manganese	0.090	J	0.049	J	1.000	U	0.030	J	0.054	J	MS
Mercury											NR
Nickel	0.104	J	0.071	J	1.000	U	1.000	U	0.079	J	MS
Potassium											NR
Selenium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	MS
Silver	0.039	J	0.043	J	0.042	J	0.019	J	1.000	U	MS
Sodium											NR
Thallium	0.145	J	0.078	J	0.029	J	0.018	J	1.000	U	MS
Vanadium	0.079	J	0.058	J	5.000	U	5.000	U	5.000	U	MS
Zinc	1.120	J	2.000	U	0.215	J	1.213	J	2.000	U	MS
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Preparation Blank Matrix (soil/water): _____

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

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum			20.000	U							MS
Antimony			0.511	J							MS
Arsenic			0.082	J							MS
Barium			0.075	J							MS
Beryllium			0.064	J							MS
Cadmium			0.062	J							MS
Calcium			4.604	J							MS
Chromium			2.000	U							MS
Cobalt			0.059	J							MS
Copper			0.054	J							MS
Iron											NR
Lead			0.079	J							MS
Magnesium			0.949	J							MS
Manganese			0.058	J							MS
Mercury											NR
Nickel			0.080	J							MS
Potassium											NR
Selenium			5.000	U							MS
Silver			0.041	J							MS
Sodium											NR
Thallium			0.074	J							MS
Vanadium			0.040	J							MS
Zinc			0.811	J							MS
Cyanide											NR

USEPA - CLP

4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 ICS Source: EPA(0803)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	100000	100000	93700	94	93200	93
Antimony	1.5	22.0	1.3	87	20.6	94
Arsenic	0.10	19.0	-0.25	250	18.8	99
Barium	1.2	22.0	1.4	117	21.7	99
Beryllium	0.0	19.0	0.26		18.8	99
Cadmium	0.70	20.0	3.4	486	21.7	109
Calcium	100000	100000	112000	112	112000	112
Carbon						
Chloride						
Chromium	21.0	40.0	19.4	92	38.9	97
Cobalt	1.0	20.0	1.4	140	20.7	104
Copper	8.0	25.0	7.8	98	26.3	105
Iron	100000	100000	112000	112	111000	111
Lead	4.0	25.0	4.3	108	24.4	98
Magnesium	100000	100000	99600	100	99900	100
Manganese	7.0	27.0	7.5	107	26.9	100
Molybdenum						
Nickel	6.0	24.0	7.3	122	26.6	111
Phosphorus						
Potassium						
Selenium	0.30	19.0	-3.2	1067	15.3	81
Silver	0.0	18.0	0.035		17.5	97
Sodium						
Sulfur						
Thallium	0.0	21.0	-0.020		19.9	95
Titanium						
Vanadium	0.50	19.0	0.22	44	20.0	105
Zinc	11.0	29.0	11.7	106	29.6	102

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Solid LCS Source: _____

Aqueous LCS Source: EPA-1(1201)

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits		Solid (mg/kg) %R
Aluminum	496.0	519.26	105						
Antimony	198.0	196.07	99						
Arsenic	199.0	192.06	97						
Barium	100.0	96.59	97						
Beryllium	99.0	96.50	97						
Cadmium	99.0	97.23	98						
Calcium	2036.0	2047.50	101						
Chromium	98.0	93.45	95						
Cobalt	99.0	94.54	95						
Copper	98.0	96.15	98						
Iron	1021.0	1036.20	101						
Lead	199.0	194.47	98						
Magnesium	1201.0	1266.30	105						
Manganese	99.0	93.80	95						
Mercury									
Nickel	98.0	96.92	99						
Potassium									
Selenium	201.0	200.22	100						
Silver	99.0	94.21	95						
Sodium									
Thallium	205.0	195.28	95						
Vanadium	100.0	95.62	96						
Zinc	200.0	197.28	99						
Cyanide									

USEPA - CLP

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA Sample No.

MH25F0L

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Matrix: (soil/water) WATER Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	77.37		72.05	J	7		MS
Antimony	22.44		23.19		3		MS
Arsenic	4.56		4.82	J	6		MS
Barium	33.01		32.72	J	1		MS
Beryllium	1.00	U	5.00	U			MS
Cadmium	29.06		29.48		1		MS
Calcium	86322.00		82555.00		4		MS
Chromium	0.64	J	0.54	J	16		MS
Cobalt	0.37	J	0.36	J	3		MS
Copper	10.14		10.54		4		MS
Iron	879.20		834.30		5		MS
Lead	169.17		163.05		4		MS
Magnesium	9683.70		9913.00		2		MS
Manganese	27.45		28.08		2		MS
Nickel	4.90		4.92	J	0		MS
Potassium							NR
Selenium	5.31		5.43	J	2		MS
Silver	0.29	J	5.00	U	100		MS
Sodium							NR
Thallium	0.49	J	5.00	U	100		MS
Vanadium	0.47	J	25.00	U	100		MS
Zinc	2825.20		2827.70		0		MS

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Instrument Type: MS Instrument ID: ICPM02 Date: 01/17/2008

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	27.00	20.0	0.32
Antimony	121.00	2.0	0.10
Arsenic	75.00	1.0	0.073
Barium	137.00	10.0	0.028
Beryllium	9.00	1.0	0.016
Cadmium	111.00	1.0	0.024
Calcium	44.00	500	3.2
Chromium	52.00	2.0	0.040
Cobalt	59.00	1.0	0.017
Copper	63.00	2.0	0.052
Iron	57.00	10.0	3.3
Lead	206,207,208	1.0	0.019
Magnesium	24.00	500.0	0.39
Manganese	55.00	1.0	0.022
Mercury			
Nickel	60.00	1.0	0.052
Potassium			
Selenium	82.00	5.0	0.16
Silver	107.00	1.0	0.018
Sodium			
Thallium	205.00	1.0	0.017
Vanadium	51.00	5.0	0.035
Zinc	66.00	2.0	0.12
Cyanide			

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Instrument Type: MS Instrument ID: ICPM02 Date: 01/21/2008

Preparation Method: HW3

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	27.00	20.0	1.6
Antimony	121.00	2.0	0.085
Arsenic	75.00	1.0	0.12
Barium	137.00	10.0	0.034
Beryllium	9.00	1.0	0.13
Cadmium	111.00	1.0	0.017
Calcium	44.00	500.0	3.4
Chromium	52.00	2.0	0.040
Cobalt	59.00	1.0	0.015
Copper	63.00	2.0	0.066
Iron	57.00	10.0	7.9
Lead	206,207,208	1.0	0.058
Magnesium	24.00	500.0	1.1
Manganese	55.00	1.0	0.034
Mercury			
Nickel	60.00	1.0	0.048
Potassium			
Selenium	82.00	5.0	0.23
Silver	107.00	1.0	0.048
Sodium			
Thallium	205.00	1.0	0.28
Vanadium	51.00	5.0	0.35
Zinc	66.00	2.0	0.97
Cyanide			

Comments:

USEPA - CLP

11-IN

ICP-AES and ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP Instrument ID: ICPM02 Date: 04/13/2008

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	160.00	120000	MS
Antimony	160.00	1000	MS
Arsenic	160.00	5000	MS
Barium	160.00	5000	MS
Beryllium	160.00	5000	MS
Cadmium	160.00	5000	MS
Calcium	160.00	250000	MS
Chromium	160.00	5000	MS
Cobalt	160.00	5000	MS
Copper	160.00	5000	MS
Iron	160.00	120000	MS
Lead	160.00	5000	MS
Magnesium	160.00	120000	MS
Manganese	160.00	5000	MS
Nickel	160.00	5000	MS
Potassium			NR
Selenium	160.00	5000	MS
Silver	160.00	1000	MS
Sodium			NR
Thallium	160.00	5000	MS
Vanadium	160.00	5000	MS
Zinc	160.00	5000	MS

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Preparation Method: HW3

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
PBW	06/30/2008		50
LCSW	06/30/2008		50
MH25E8	06/30/2008		50
MH25E9	06/30/2008		50
MH25F0	06/30/2008		50

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 07/10/2008 End Date: 07/10/2008

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	1136																										
S0	1.0	1240	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S2	1.0	1246	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S5	1.0	1252	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S10	1.0	1258	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S50	1.0	1304	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S200	1.0	1309	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S500	1.0	1315	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S1000	1.0	1321	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S1500	1.0	1327	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
S2000	1.0	1333	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICV	1.0	1339	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICB	1.0	1345	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CRII	1.0	1351		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1403	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	1.0	1409		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCB	1.0	1415	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X	X			
PBW	1.0	1421	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
LCSW	1.0	1426	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
MH25E8	1.0	1432	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
MH25E9	1.0	1438	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
MH25F0	1.0	1444	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X				
ZZZZZZ	1.0	1450																										
ZZZZZZ	1.0	1456																										
ZZZZZZ	1.0	1502																										
ZZZZZZ	1.0	1508																										
CCV2	1.0	1514	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCB2	1.0	1520	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ZZZZZZ	1.0	1526																										
ZZZZZZ	1.0	1532																										
ZZZZZZ	1.0	1538																										
ZZZZZZ	1.0	1544																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1556																										
CRIF	1.0	1602		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			

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13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 07/10/2008 End Date: 07/10/2008

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		
CCV3	1.0	1608	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCB3	1.0	1614	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
MH25F0L	5.0	1620	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X				
MH25F0	2.0	1626																							X			
MH25F0L	10	1632																							X			
ZZZZZZ	1.0	1638																										
CRIF2	1.0	1644		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCV4	1.0	1650	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCB4	1.0	1656	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			

USEPA - CLP

14-IN
ICP-MS Tune

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 Date: 07/10/2008

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	%RSD
Be - 9	9.01	0.71	0.6
Mg - 24	23.99	0.71	0.9
Mg - 25	24.99	0.71	1.0
Mg - 26	25.98	0.71	1.2
Co - 59	58.93	0.66	1.2
In - 113	112.90	0.71	1.7
In - 115	114.90	0.71	1.6
Pb - 206	205.97	0.77	1.8
Pb - 207	206.98	0.77	1.9
Pb - 208	207.98	0.77	1.7

Comments:

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 Start Date: 07/10/2008 End Date: 07/10/2008

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 115In	Q	Element 159Tb	Q
S0	1240	100		100		100		100		100	
S2	1246	99		96		94		94		90	
S5	1252	99		98		97		97		96	
S10	1258	100		98		97		97		95	
S50	1304	100		97		95		95		92	
S200	1309	99		96		95		96		94	
S500	1315	97		91		91		91		88	
S1000	1321	96		90		91		91		91	
S1500	1327	98		93		92		92		90	
S2000	1333	100		95		94		94		91	
ICV	1339	98		94		93		94		93	
ICB	1345	99		94		92		92		88	
CRII	1351	101		98		97		97		96	
ICSA	1357	88		82		79		84		80	
ICSAB	1403	89		84		80		86		82	
CCV	1409	96		96		96		97		98	
CCB	1415	98		97		96		95		94	
PBW	1421	100		98		98		99		100	
LCSW	1426	99		94		93		94		94	
MH25E8	1432	99		92		90		89		89	
MH25E9	1438	95		93		90		90		93	
MH25F0	1444	98		90		87		87		88	
ZZZZZZ	1450										

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 Start Date: 07/10/2008 End Date: 07/10/2008

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	1240	100									
S2	1246	91									
S5	1252	96									
S10	1258	95									
S50	1304	93									
S200	1309	97									
S500	1315	91									
S1000	1321	94									
S1500	1327	92									
S2000	1333	93									
ICV	1339	95									
ICB	1345	90									
CRII	1351	97									
ICSA	1357	80									
ICSAB	1403	81									
CCV	1409	99									
CCB	1415	94									
PBW	1421	101									
LCSW	1426	95									
MH25E8	1432	88									
MH25E9	1438	91									
MH25F0	1444	87									
ZZZZZZ	1450										

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 Start Date: 07/10/2008 End Date: 07/10/2008

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 115In	Q	Element 159Tb	Q
ZZZZZZ	1456										
ZZZZZZ	1502										
ZZZZZZ	1508										
CCV2	1514	94		87		85		86		84	
CCB2	1520	97		92		90		91		90	
ZZZZZZ	1526										
ZZZZZZ	1532										
ZZZZZZ	1538										
ZZZZZZ	1544										
ZZZZZZ	1550										
ZZZZZZ	1556										
CRIF	1602	98		91		89		90		89	
CCV3	1608	96		89		88		88		88	
CCB3	1614	96		89		87		87		85	
MH25F0L	1620	99		90		89		90		90	
MH25F0	1626	99		89		87		87		88	
MH25F0L	1632	98		89		86		87		87	
ZZZZZZ	1638										
CRIF2	1644	98		90		88		88		86	
CCV4	1650	97		89		88		88		88	
CCB4	1656	98		90		88		89		87	

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH25E8

ICP-MS Instrument ID: ICPM02 Start Date: 07/10/2008 End Date: 07/10/2008

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	1456										
ZZZZZZ	1502										
ZZZZZZ	1508										
CCV2	1514	88									
CCB2	1520	94									
ZZZZZZ	1526										
ZZZZZZ	1532										
ZZZZZZ	1538										
ZZZZZZ	1544										
ZZZZZZ	1550										
ZZZZZZ	1556										
CRIF	1602	92									
CCV3	1608	92									
CCB3	1614	88									
MH25F0L	1620	93									
MH25F0	1626	90									
MH25F0L	1632	90									
ZZZZZZ	1638										
CRIF2	1644	89									
CCV4	1650	92									
CCB4	1656	91									

Run MS208090 Summary		9Be	24Mg	27Al	44Ca	51V	52Cr	55Mn	57Fe	59Co	60Ni	63Cu	66Zn	75As	82Se	107Ag	111Cd	121Sb	137Ba	205Tl	208Pb	6Li	45Sc	89Y	115In	159Tb	209Bi
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S0	07/10/2008 12:40:25	0	0	0	0	0	0	0	-4.3907	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
S2	07/10/2008 12:46:19	1.9252	2.2513	2.1688	7.3265	1.8371	1.8841	1.8215	3.7545	1.8268	1.8789	1.962	2.4021	1.9826	1.8922	1.8573	1.9819	1.8527	1.9068	1.7746	1.8326	98.60%	95.87%	94.40%	93.50%	89.99%	90.83%
S5	07/10/2008 12:52:12	4.9718	5.3625	5.2117	6.717	4.6867	4.7123	4.5967	4.5877	4.6078	4.8131	4.7866	5.4019	4.8026	4.869	4.7104	4.9259	4.7325	4.9036	4.5194	4.7382	98.92%	97.87%	97.31%	97.18%	95.80%	95.95%
S10	07/10/2008 12:58:07	9.8751	10.581	10.283	15.804	9.4094	9.3423	9.255	8.6616	9.1841	9.5987	9.6171	10.461	9.7054	9.7986	9.3624	9.6808	9.4183	9.5944	9.0202	9.3649	100.39%	98.28%	97.44%	97.03%	95.07%	95.45%
S50	07/10/2008 13:04:01	48.698	48.849	48.533	56.805	46.807	46.662	45.959	50.767	46.256	47.753	47.021	48.092	48.46	48.746	46.876	48.034	47.257	48.054	45.138	46.652	100.01%	96.50%	95.30%	94.62%	91.69%	92.79%
S200	07/10/2008 13:09:55	197.93	203	197.78	206.29	194.64	193.48	192.13	198.59	191.24	195.75	193.41	195.72	196.62	197.82	193.36	197.81	195.7	196.21	189.71	193.67	98.94%	95.56%	95.35%	95.90%	93.91%	96.76%
S500	07/10/2008 13:15:50	500.96	498.44	501.03	512.96	502.48	502.96	503.57	510.76	503.9	501.94	502.94	501.89	501.51	501	502.99	501.08	502.01	501.72	504.63	502.88	96.63%	91.19%	90.65%	90.73%	88.26%	90.54%
S1000	07/10/2008 13:21:45	973.66	1003	947.18	1019.9	956.27	955.12	947.4	991.88	951.35	993.93	991.78	984.18	979.65	967.91	984.17	991.73	1018.3	995.12	953.37	982.99	95.60%	89.92%	90.58%	91.43%	90.57%	93.82%
S1500	07/10/2008 13:27:41	0.3291	1497.8	0.9919	1509.2	0.2451	0.3859	0.3651	1509	0.3409	0.4108	0.546	0.9242	0.3292	0.1209	0.3161	0.3255	1.817	0.3777	0.4342	0.4004	98.42%	92.75%	91.60%	91.94%	89.64%	92.00%
S2000	07/10/2008 13:33:37	0.1897	2000.3	1.4608	1979.1	0.146	0.3168	0.2452	1994.8	0.2264	0.3017	0.3895	1.1159	0.6971	0.2323	0.4114	0.2266	4.2294	0.2517	0.3759	1.0737	100.12%	95.07%	93.70%	93.79%	91.48%	93.41%
ICV	07/10/2008 13:39:34	98.546	1243	507.39	2049.4	96.167	94.551	94.534	1031.8	94.942	96.842	96.744	202.89	196.14	205.64	95.277	98.783	197.57	98.541	196.83	195.59	97.85%	93.77%	93.39%	93.52%	92.55%	95.16%
ICB	07/10/2008 13:45:31	0.0973	0.9914	0.384	5.3064	0.0786	0.0857	0.0902	3.7861	0.0867	0.1035	0.1725	1.1203	0.0845	-0.1028	0.0393	0.0927	0.5953	0.1033	0.145	0.1319	99.19%	94.05%	92.15%	91.72%	88.12%	90.21%
CRII	07/10/2008 13:51:27	1.0196	0.211	0.2881	2.4125	4.6504	1.8898	0.9402	-1.6221	0.9345	0.9959	1.9558	2.4253	0.9774	4.9712	0.9482	0.987	2.0896	9.4923	0.9264	0.9585	101.16%	97.78%	96.78%	97.00%	96.21%	97.15%
ICSA	07/10/2008 13:57:21	0.2556	99590	93654	112320	0.2237	19.359	7.4755	111850	1.3927	7.2862	7.8151	11.716	-0.2541	-3.2003	0.0348	3.4028	1.258	1.3881	-0.0198	4.3198	88.33%	82.48%	78.72%	84.32%	80.33%	79.86%
ICSAB	07/10/2008 14:03:15	18.801	99896	93217	111630	19.993	38.874	26.914	110550	20.657	26.612	26.275	29.551	18.816	15.265	17.48	21.697	20.598	21.673	19.948	24.437	88.88%	84.14%	80.40%	85.58%	82.15%	80.60%
CCV	07/10/2008 14:09:10	249.13	1083.9	293.75	1055.2	241.28	239.88	239.35	1034.5	238.84	242.16	241.19	246.53	244.1	247.65	240.86	245.1	241.82	241.51	237.42	240.91	96.44%	96.20%	95.85%	96.95%	97.50%	98.95%
CCB	07/10/2008 14:15:06	0.0582	15.449	12.481	20.352	0.0577	0.066	0.0494	14.394	0.0532	0.0713	0.1695	0.0251	0.0062	-0.1424	0.0426	0.0552	0.5239	0.0543	0.0779	0.059	97.57%	97.33%	95.83%	95.33%	94.28%	94.47%
PBW	07/10/2008 14:21:03	0.054	18.376	15.776	27.903	0.0494	0.2396	0.0543	7.7924	0.0435	0.0786	0.2552	0.4302	-0.0148	-0.0896	0.0436	0.0571	0.2463	0.049	0.0334	0.0814	100.02%	98.45%	97.75%	98.55%	100.03%	100.86%
LCSW	07/10/2008 14:26:58	96.497	1266.3	519.26	2047.5	95.624	93.452	93.803	1036.2	94.537	96.924	96.153	197.28	192.06	200.22	94.209	97.229	196.07	96.59	195.28	194.47	98.55%	94.11%	92.87%	93.64%	93.74%	95.38%
MH25E8	07/10/2008 14:32:55	0.0726	17985	169.35	96629	0.5054	0.822	35.938	987.21	0.4168	3.3085	3.1123	105.28	1.2726	0.4646	0.4218	1.3141	1.8746	240.15	0.1827	9.0927	99.35%	92.40%	89.66%	89.46%	89.29%	87.65%
MH25E9	07/10/2008 14:38:50	0.2141	4112.7	3109.8	20334	7.6207	4.3749	69.374	2522.5	1.3377	3.2634	12.015	56.969	10.836	0.2907	0.6848	0.2914	3.2388	54.737	0.1485	36.413	95.01%	92.60%	90.27%	90.17%	92.52%	90.89%
MH25F0	07/10/2008 14:44:46	0.0518	9683.7	77.368	86322	0.4729	0.6428	27.453	879.2	0.366	4.8967	10.144	5142.3	4.559	5.3134	0.2881	29.063	22.436	33.013	0.4893	169.17	97.95%	90.37%	87.42%	87.36%	88.34%	87.41%
ZZZZZZ	07/10/2008 14:50:43	0.0294	9866.1	73.855	87569	0.4602	0.6229	27.493	791.02	0.3357	4.7677	10.053	5138.4	4.4462	5.1012	0.2519	29.145	22.569	32.602	0.4475	169.08	98.00%	90.37%	88.35%	88.81%	92.38%	91.74%
ZZZZZZ	07/10/2008 14:56:46	0.0073	3.0528	0.7651	21.697	0.022	0.0271	0.0147	-2.4152	0.0042	0.0088	-0.0057	1.2146	-0.0433	-0.222	0.0324	0.006	0.046	0.0207	-0.0165	0.0507	98.17%	92.20%	90.09%	90.79%	90.80%	93.10%
ZZZZZZ	07/10/2008 15:02:53	0.003	1.0132	1.4321	13.326	0.0577	0.2239	0.0012	-2.9702	-0.0015	0.0297	0.018	0.8269	-0.0285	-0.2721	0.01	0.0034	0.0418	0.0007	-0.0344	0.0219	98.71%	89.05%	86.89%	87.71%	87.69%	91.64%
ZZZZZZ	07/10/2008 15:08:49	95.49	1241.6	499.41	2065.2	95.729	93.486	94.433	1029.9	94.905	97.116	96.337	200.31	191.74	200.53	94.489	97.751	197.74	97.195	197.47	196.55	98.70%	88.66%	86.86%	88.72%	89.18%	93.42%
CCV2	07/10/2008 15:14:50	246.16	969.75	240.33	970.57	243.03	240.87	237.99	985.38	239.82	245.66	241.37	245.66	246.12	249.22	241.27	245.43	241.74	242.82	235.75	239.56	94.37%	87.17%	84.95%	85.90%	84.45%	88.15%
CCB2	07/10/2008 15:20:58	0.0226	0.1907	1.0529	1.0438	0.0154	0.0138	0.0195	-5.692	0.0256	0.034	0.1551	0.2153	0.052	0.1001	0.0417	0.0246	0.4804	0.0321	0.0286	0.0488	96.81%	91.61%	89.75%	91.13%	90.03%	94.24%
ZZZZZZ	07/10/2008 15:26:53	0.0125	17793	9.193	97414	0.2065	0.6164	16.999	872.5	0.4007	3.2717	1.2706	88.442	0.7393	0.2913	0.1796	1.3282	1.5102	241.46	0.0079	0.4301	99.68%	89.54%	85.47%	85.17%	85.11%	83.42%
ZZZZZZ	07/10/2008 15:32:48	0.0477	2673.1	653.26	15683	3.6383	1.501	15.136	563.46	1.2302	1.5739	5.4556	9.4886	8.2812	-0.0998	0.3035	0.0698	2.9976	29.058	0.013	4.6999	94.73%	88.09%	85.22%	85.34%	88.45%	86.49%
ZZZZZZ	07/10/2008 15:38:45	0.0163	8899.3	2.5389	82770	0.1699	0.3296	2.1689	677.35	0.2584	4.5876	5.2277	4982.2	2.1463	5.1716	0.0758	28.227	20.446	30.633	0.4152	20.412	97.55%	88.71%	85.85%	85.96%	87.14%	87.21%
ZZZZZZ	07/10/2008 15:44:41	0.004	1853.9	0.7987	15741	0.0883	0.0976	0.4399	153.67	0.0552	1.085	1.1704	1097.1	0.4316	0.9204	0.0467	5.6681	4.1478	6.1817	0.0548	4.0164	96.66%	88.34%	85.60%	86.34%	85.46%	88.22%
ZZZZZZ	07/10/2008 15:50:41	0.0156	29820	114.9	127080	2.2387	0.5805	276.86	1784.2	1.5639	5.5995	2.0436	144.18	5.745	0.1767	0.0638	0.0581	0.5042	30.297	-0.027	1.5455	96.30%	90.18%	87.16%	87.18%	90.56%	88.42%
ZZZZZZ	07/10/2008 15:56:41	-0.0042	3.4028	0.0469	22.047	0.0002	0.0175	0.0172	-0.0486	-0.0001	0.0051	-0.0228	1.0794	-0.0197	-0.1431	0.004	0.0033	0.0355	0.0087	-0.029	0.0232	97.55%	90.67%	88.25%	88.74%	87.16%	90.63%
CRIF	07/10/2008 16:02:38	0.9675	0.8775	0.2539	6.1013	4.6367	1.8514	0.917	-2.8714	0.9039	0.9664	1.8536	2.3219	0.8953	4.8	0.9373	0.9812	1.833	9.4679	0.8767	0.9379	97.94%	91.37%	89.28%	89.87%	89.11%	92.34%
CCV3	07/10/2008 16:08:35	247.23	978.38	241	983.35	241.56	239.23	236.87	980.75	238.29	242.94	239.25	243.72	243.09	244.86	240.5	244.42	240.41	243.21	235.3	239.09	96.06%	89.13%	87.52%	88.42%	87.77%	91.84%
CCB3	07/10/2008 16:14:31	0.0366	2.2357	0.048	18.222	0.022	0.0171	0.0297	0.3812	0.03	0.0456	0.029	1.2131	0.0156	-0.1041	0.0194	0.039	0.4809	0.0476	0.0176	0.0718	96.25%	89.11%	86.95%	87.16%	85.39%	87.96%
MH25F0L	07/10/2008 16:20:26	0.0113	1982.6	14.409	16511	0.1481	0.1072	5.616	166.86	0.0716	0.9838	2.1081	1127.4	0.9648	1.0865	0.0326	5.8953	4.6384	6.5446	0.0639	32.609	98.75%	90.42%	88.77%	89.58%	90.18%	93.34%
MH25F0-2X	07/10/2008 16:26:21	0.0092	4821.1	35.552	41879	0.195	0.3066	13.668	428.61	0.1757	2.4813	5.0636	2825.2	2.2482	2.6458	0.0623	14.548	11.219	16.715	0.1745	82.479	98.54%	89.19%	86.73%	87.26%	88.02%	89.96%
MH25F0L-2X	07/10/2008 16:32:17	-0.0006	984.29	7.3855	8150.8	0.0573	0.0719	2.7779	96.838	0.0395	0.541	1.0341	565.54	0.412	0.4393	0.0199	2.964	2.3181	3.3107	0.0126	16.345	97.92%	89.20%	86.48%	87.26%	86.95%	89.96%
ZZZZZZ	07/10/2008 16:38:13	0.0006	0.6792	0.0215	4.8989	0.0082	-0.02	0.0012	-5.0319	0.0033	0.0046	0.0286	0.7147	-0.0515	-0.2433	0.0012	0.0028	0.0418	0.0067	-0.017	0.0147	98.89%	92.17%	90.38%	91.66%	91.01%	95.31%
CRIF2	07/10/2008 16:44:09	0.9792	0.2104	0.3376	2.0594	4.6803	1.8624	0.907	0.7563	0.8999	0.9539	1.885	2.3387	0.8777	4.7423	0.9454	0.933	1.8751	9.3927	0.8724	0.9358	98.16%	90.44%	87.53%	87.91%	85.68%	89.09%
CCV4	07/10/2008 16:50:06	243.11	978.83	238.41	971.35	239.99	237.83	237.04	975.96	237.71	240.99	238.42	243.16	241.14	243.2	239.55	242.95	239.48	241.48	234.82	238.66	96.75%	88.94%	87.59%	88.48%	87.57%	91.67%
CCB4	07/10/2008 16:56:03	0.064	0.9487	0.1988	4.6042	0.0403	0.0348	0.0575	-0.9621	0.0593	0.0803	0.0541	0.8105	0.0818	0.0997	0.0408	0.062	0.511	0.0752	0.0735	0.0791	97.99%	90.47%	88.01%	88.92%	86.88%	90.78%

Results outside of control limits.
66Zn result is not used, due to results above the linear range.
Diluted result that is reported.

SDG MH25E8

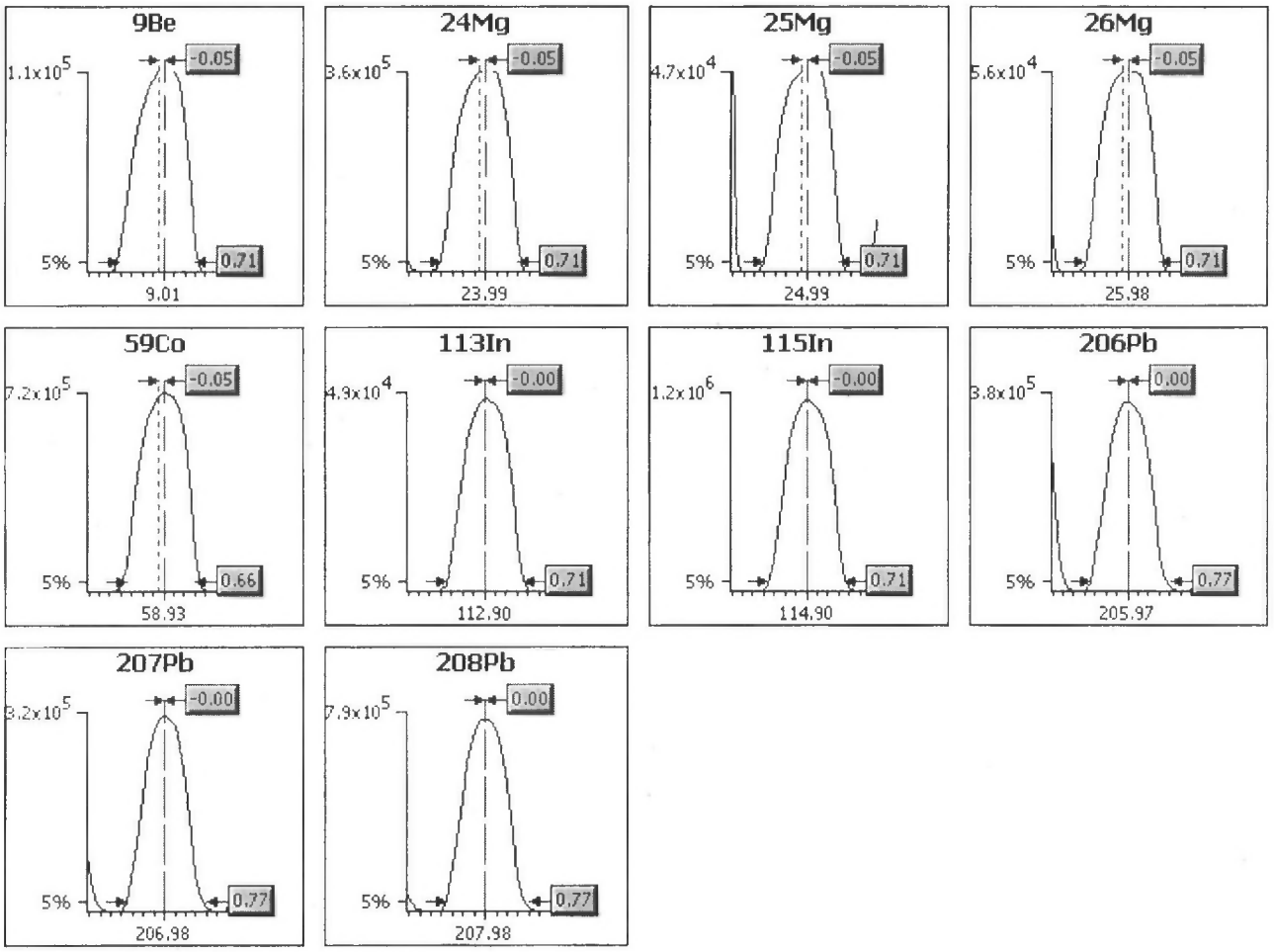
Performance Report

RUN# MS208090

Sample details
Acquired at : 07/10/2008 11:36:48
Report name : ILM05.3 [06/18/2008 12:07:33]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum TUNE



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.75	0.60	0.10	0.71	-0.05
24Mg	0.75	0.60	0.10	0.71	-0.05
25Mg	0.75	0.60	0.10	0.71	-0.05
26Mg	0.75	0.60	0.10	0.71	-0.05
59Co	0.72	0.60	0.10	0.66	-0.05
113In	0.75	0.60	0.10	0.71	-0.00
115In	0.75	0.60	0.10	0.71	-0.00
206Pb	0.80	0.60	0.10	0.77	0.00
207Pb	0.80	0.60	0.10	0.77	-0.00
208Pb	0.80	0.60	0.10	0.77	0.00

Sample details
Acquired at : 07/10/2008 11:36:48
Report name : ILM05.3 [06/18/2008 12:07:33]

Tune conditions

Major	
Extraction	-145
Lens 1	2.9
Focus	24.1
D1	-34.5
Pole Bias	2.5
Hexapole Bias	4.5
Nebuliser	0.76
Sampling Depth	107

Minor	
Lens 2	-44.7
Lens 3	-142.7
Forward power	1404
Horizontal	100
Vertical	475
D2	-160
DA	-80.0
Cool	13.0
Auxiliary	0.80

Global	
Standard resolution	165
High resolution	115
Analogue Detector	1550
PC Detector	3125

Add. Gases

Sensitivity and stability results

Acquisition parameters

TUNE

Sweeps : 130

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	138Ba++	101Bkg
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-	-
	Countrate	-	>3000	>10000	>10000	>10000	-	>10000	-	-
1	11:37:08	0.154	104442.73	374738.94	49586.321	57270.738	526878.74	737355.68	35537.923	0.154
2	11:38:21	0.231	105205.31	377776.98	50326.121	58026.710	528751.98	746651.19	36011.231	0.462
3	11:39:34	0.385	105970.29	380349.35	50148.130	58713.030	533834.22	749645.22	36334.939	0.308
4	11:40:47	0.385	105735.81	382193.21	50557.515	58772.679	538572.70	752178.14	36352.451	0.308
5	11:42:00	0.077	106062.22	383455.41	50980.078	58942.333	541881.84	762081.67	36660.205	0.077
x		0.246	105483.27	379702.78	50319.633	58345.098	533983.89	749582.38	36179.350	0.262
σ		0.14	670.10	3501.82	514.78	694.71	6350.46	8959.05	425.76	0.15
%RSD		55.902	0.635	0.922	1.023	1.191	1.189	1.195	1.177	57.334

Run	Time	113In	115In	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	5.0%	5.0%	-	-	-	5.0%	5.0%	5.0%	-
	Countrate	>10000	>10000	-	-	-	>10000	>10000	>10000	<1
1	11:37:08	48790.104	1158170.7	860206.82	1257049.5	28714.772	386258.19	318097.46	795336.48	0.154
2	11:38:21	49308.526	1175670.6	872720.79	1272355.5	29384.022	390728.77	323015.15	806520.94	0.308
3	11:39:34	49881.924	1189686.4	879864.32	1284060.5	28970.012	394165.06	326233.89	817906.83	0.615
4	11:40:47	50233.256	1195813.6	888239.92	1300281.6	28972.842	402320.49	332270.11	824217.84	0.308
5	11:42:00	51007.940	1206511.3	894678.68	1304376.8	29439.859	401837.22	332637.41	829106.66	0.308
x		49844.350	1185170.5	879142.11	1283624.8	29096.301	395061.95	326450.80	814617.75	0.338
σ		852.22	18763.89	13457.85	19631.14	307.23	6994.24	6200.15	13695.20	0.17
%RSD		1.710	1.583	1.531	1.529	1.056	1.770	1.899	1.681	49.793

Ratio results

Run	Time	56Ar O/59Co	138Ba++/138Ba	115In/101Bkg	156Ce O/140Ce
Ratio limits		-	-	>10000.0000	<0.0300
1	11:37:08	0.715	0.041	7528109.7	0.023
2	11:38:21	0.708	0.041	2547286.2	0.023
3	11:39:34	0.712	0.041	3866480.7	0.023
4	11:40:47	0.716	0.041	3886394.2	0.022
5	11:42:00	0.711	0.041	15684647	0.023
x		0.7124	0.0412	6702583.5	0.0227
σ		0.00	0.00	5352565.90	0.00
%RSD		0.4301	0.4562	79.8583	1.3636

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Elemental\PlasmaLab\data\Run Data\MS208089.tee
Created By User	Edwards
Analyte Database	ILM5.3.tea
Creation Timestamp	02/02/2005 10:10:19
Last Edited By	Edwards
Last Edit Timestamp	07/14/2008 11:21:36
Instrument Detector	Simultaneous
Database Version	3.51
Acquisition Mode	Unknown

RUN# MS208090
ICPM02
07/14/08
ILM05.4 - HW3

SDG 'S': MH25C5 (CA DILUTION ONLY)
MH25E8
MH26C8

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

Column headings
- No flag
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient: TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Setup

Survey Scan Setup

Sweeps	5
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	6739

Main Run Setup

Main Run	Peak Jumping
Sweeps	40
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	33467
Channel Spacing	0.02

Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	Standard
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.50	9	600	
33.50	34.50	10	600	
36.50	37.50	10	600	
38.50	39.41	9	600	Standard
42.59	245.50	2029	600	Standard

Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
6Li	1	30000	Standard
7Li	1	10000	Standard
9Be	1	30000	Standard
13C	1	10000	
24Mg	1	5000	
25Mg	1	5000	
26Mg	1	5000	
27Al	1	10000	Standard
43Ca	1	10000	
44Ca	1	10000	
45Sc	1	20000	Standard

47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	
55Mn	1	10000	Standard
56Fe	1	10000	
57Fe	1	10000	
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
65Cu	1	10000	Standard
66Zn	1	10000	Standard
75As	1	30000	Standard
77Ar Cl	1	30000	Standard
78Se	1	30000	Standard
82Se	1	30000	Standard
83Kr	1	30000	Standard
86Sr	1	10000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
95Mo	1	10000	Standard
106Pd	1	10000	Standard
106Cd	1	10000	Standard
107Ag	1	20000	Standard
108Mo O	1	10000	Standard
109Ag	1	20000	Standard
111Cd	1	20000	Standard
114Cd	1	20000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
135Ba	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
203Tl	1	20000	Standard
205Tl	1	20000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	20000	Standard
220Bkg	1	10000	Standard

Calibration Technique

Use External Drift Correction - No
Calibrate by - Element

Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
6Li	Yes	1.00	None				No		
7Li	Yes	1.00	None				No		
9Be	Yes	0.75	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
13C	Yes	0.05	None				No		
24Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
25Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
26Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
27Al	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
43Ca	Yes	0.99	None				No		
44Ca	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
45Sc	Yes	1.00	None				No		
47Ti	Yes	0.99	Semi-Quantified				No		
51V	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
52Cr	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
55Mn	Yes	0.95	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
54Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
56Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
57Fe	Yes	0.96	Fully-Quantified	Linear	None	None	Yes		0.995000
59Co	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
60Ni	No	0.91	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
63Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
65Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
66Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
75As	Yes	0.07	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
78Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
82Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000

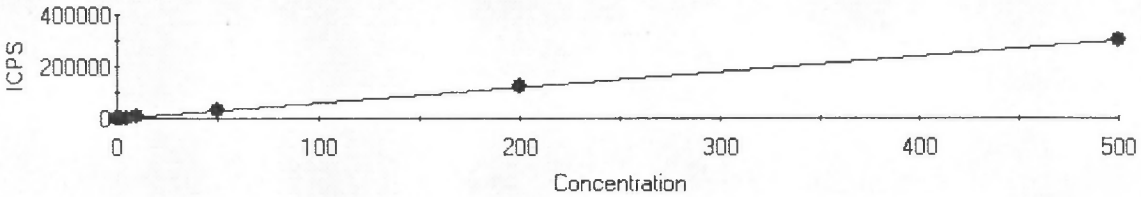
83Kr	Yes	0.01	Semi-Quantified				No	
86Sr	Yes	0.96	None				No	
88Sr	Yes	0.96	None				No	
89Y	Yes	0.98	None				No	
95Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
106Pd	Yes	0.93	None				No	
107Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
109Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
106Cd	Yes	0.57	None				No	
111Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
114Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
115In	Yes	0.99	None				No	
118Sn	Yes	0.96	None				No	
121Sb	Yes	0.39	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
135Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
1378a	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
159Tb	Yes	0.99	None				No	
203Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
206Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
207Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
208Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
209Bi	Yes	0.92	None				No	
205Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
220Bkg	Yes		Semi-Quantified				No	
77Ar Cl	Yes		Semi-Quantified				No	
53Cl O	Yes		Semi-Quantified				No	
108Mo O	Yes		Semi-Quantified				No	

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	S0	Blank	1.000	1	1	1	144
2	S2	Fully Quant Standard	1.000	1	1	2	144
3	S5	Fully Quant Standard	1.000	1	1	3	144
4	S10	Fully Quant Standard	1.000	1	1	4	144
5	S50	Fully Quant Standard	1.000	1	1	5	144
6	S200	Fully Quant Standard	1.000	1	1	6	144
7	S500	Fully Quant Standard	1.000	1	1	7	144
8	S1000	Fully Quant Standard	1.000	1	1	8	144
9	S1500	Fully Quant Standard	1.000	1	1	9	144
10	S2000	Fully Quant Standard	1.000	1	1	10	144
11	ICV	Unknown	1.000	1	1	11	144
12	ICB	Unknown	1.000	1	1	12	144
13	CRII	Unknown	1.000	1	2	1	144
14	ICSA	Unknown	1.000	1	2	2	144
15	ICSAB	Unknown	1.000	1	2	3	144
16	CCV	Unknown	1.000	1	2	4	144
17	CCB	Unknown	1.000	1	2	5	144
18	PBW	Unknown	1.000	1	2	6	144
19	LCSW	Unknown	1.000	1	2	7	144
20	MH25E8	Unknown	1.000	1	2	8	144
21	MH25E9	Unknown	1.000	1	2	9	144
22	MH25F0	Unknown	1.000	1	2	10	144
23	MH25F0L	Unknown	1.000	1	2	11	144
24	ZZZZZZ	Unknown	1.000	1	2	12	144
25	PBW	Unknown	1.000	1	3	1	144
26	LCSW	Unknown	1.000	1	3	2	144
27	CCV2	Unknown	1.000	1	3	3	144
28	CCB2	Unknown	1.000	1	3	4	144
29	MH26C8	Unknown	1.000	1	3	5	144
30	MH26D0	Unknown	1.000	1	3	6	144
31	MH26D1	Unknown	1.000	1	3	7	144
32	MH26D1L	Unknown	1.000	1	3	8	144
33	MH25D9-2X	Unknown	1.000	1	3	9	144
34	ZZZZZZ	Unknown	1.000	1	3	10	144
35	CRIF	Unknown	1.000	1	3	11	144
36	CCV3	Unknown	1.000	1	3	12	144
37	CCB3	Unknown	1.000	1	4	1	144
38	MH25F0L	Unknown	1.000	1	4	2	144
39	MH25F0-2X	Unknown	1.000	1	4	3	144
40	MH25F0L-2X	Unknown	1.000	1	4	4	144
41	ZZZZZZ	Unknown	1.000	1	4	5	144
42	CRIF2	Unknown	1.000	1	4	6	144
43	CCV4	Unknown	1.000	1	4	7	144
44	CCB4	Unknown	1.000	1	4	8	144

Fully Quant Calibration

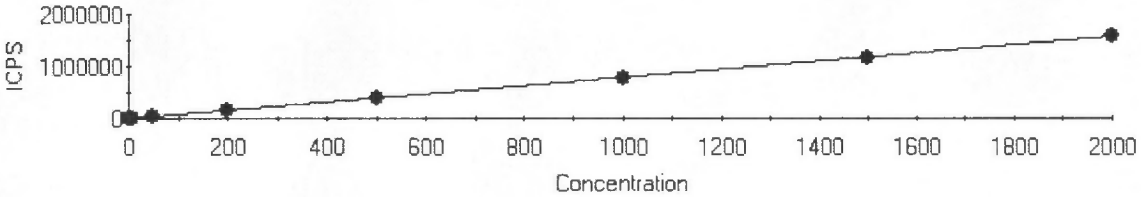
9Be FQ Block 1



Intercept CPS=12.849865 Intercept Conc=0.021252
Sensitivity=604.639230 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	12.85	0.00
S2	2.000	1.925	0.075	1176.89	3.74
S5	5.000	4.972	0.028	3018.99	0.56
S10	10.000	9.875	0.125	5983.70	1.25
S50	50.000	48.698	1.302	29457.67	2.60
S200	200.000	197.931	2.069	119689.80	1.03
S500	500.000	500.961	0.961	302913.40	0.19

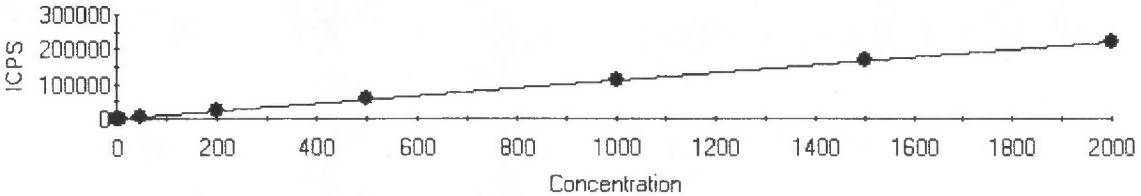
24Mg FQ Block 1



Intercept CPS=237.147452 Intercept Conc=0.303868
Sensitivity=780.428479 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	237.15	0.00
S2	2.000	2.251	0.251	1994.09	12.56
S5	5.000	5.363	0.363	4422.22	7.25
S10	10.000	10.581	0.581	8494.72	5.81
S50	50.000	48.849	1.151	38360.01	2.30
S200	200.000	203.003	3.003	158666.31	1.50
S500	500.000	498.442	1.558	389235.16	0.31
S1000	1000.000	1003.011	3.011	783015.80	0.30
S1500	1500.000	1497.780	2.220	1169147.23	0.15
S2000	2000.000	2000.273	0.273	1561307.50	0.01

25Mg FQ Block 1

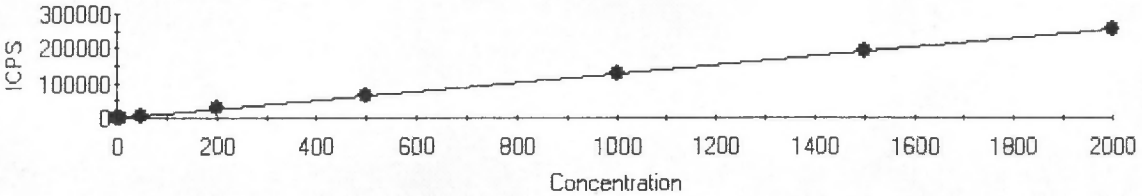


Intercept CPS=36.973184 Intercept Conc=0.336925
Sensitivity=109.737249 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	36.97	0.00
S2	2.000	1.937	0.063	249.57	3.13
S5	5.000	5.140	0.140	601.05	2.81
S10	10.000	10.078	0.078	1142.95	0.78
S50	50.000	51.019	1.019	5635.70	2.04
S200	200.000	205.035	5.035	22536.95	2.52
S500	500.000	503.947	3.947	55338.70	0.79

S1000	1000.000	1003.146	3.146	110119.48	0.31
S1500	1500.000	1501.222	1.222	164776.95	0.08
S2000	2000.000	1995.994	4.006	219071.87	0.20

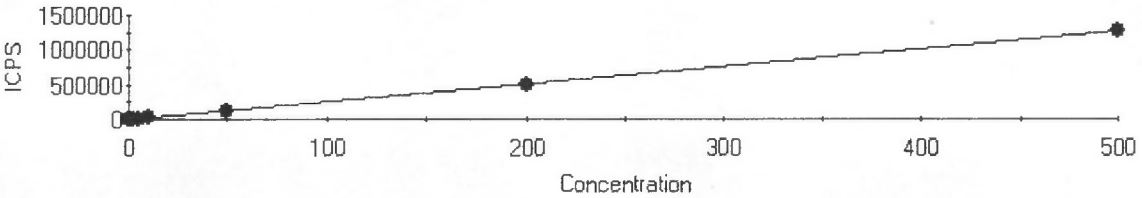
26Mg FQ Block 1



Intercept CPS=46.086529 Intercept Conc=0.362199
Sensitivity=127.241067 Correlation Coeff=0.999965

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	46.09	0.00
S2	2.000	2.240	0.240	331.15	12.02
S5	5.000	5.050	0.050	688.61	0.99
S10	10.000	10.714	0.714	1409.30	7.14
S50	50.000	50.020	0.020	6410.66	0.04
S200	200.000	206.205	6.205	26283.86	3.10
S500	500.000	511.268	11.268	65100.42	2.25
S1000	1000.000	1012.422	12.422	128867.80	1.24
S1500	1500.000	1493.007	6.993	190017.92	0.47
S2000	2000.000	1995.591	4.409	253967.25	0.22

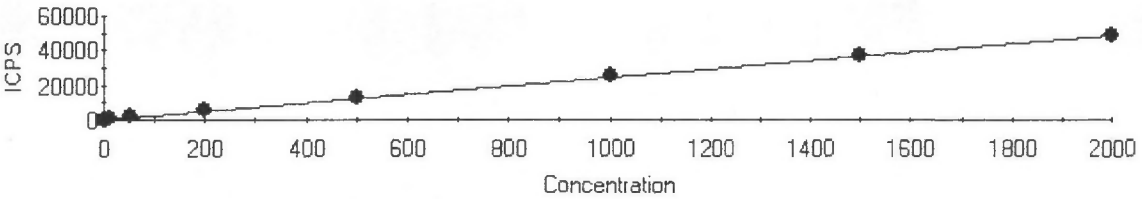
27Al FQ Block 1



Intercept CPS=876.738062 Intercept Conc=0.347062
Sensitivity=2526.174089 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	876.74	0.00
S2	2.000	2.169	0.169	6355.59	8.44
S5	5.000	5.212	0.212	14042.31	4.23
S10	10.000	10.283	0.283	26852.49	2.83
S50	50.000	48.533	1.467	123479.50	2.93
S200	200.000	197.775	2.225	500491.89	1.11
S500	500.000	501.028	1.028	1266560.91	0.21

44Ca FQ Block 1

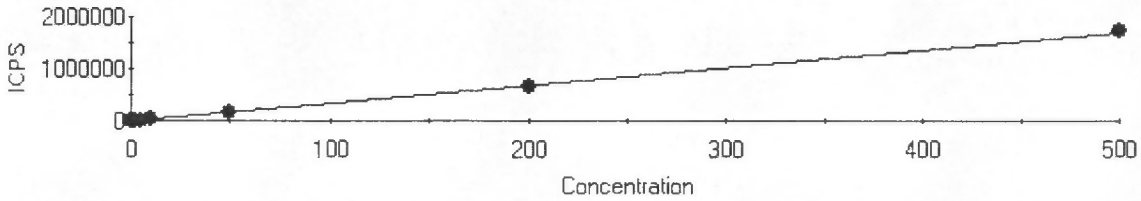


Intercept CPS=379.560223 Intercept Conc=15.656321
Sensitivity=24.243257 Correlation Coeff=0.999906

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	379.56	0.00
S2	2.000	7.326	5.326	557.18	266.32

S5	5.000	6.717	1.717	542.40	34.34
S10	10.000	15.804	5.804	762.70	58.04
S50	50.000	56.805	6.805	1756.69	13.61
S200	200.000	206.287	6.287	5380.62	3.14
S500	500.000	512.962	12.962	12815.44	2.59
S1000	1000.000	1019.899	19.899	25105.24	1.99
S1500	1500.000	1509.203	9.203	36967.55	0.61
S2000	2000.000	1979.070	20.930	48358.67	1.05

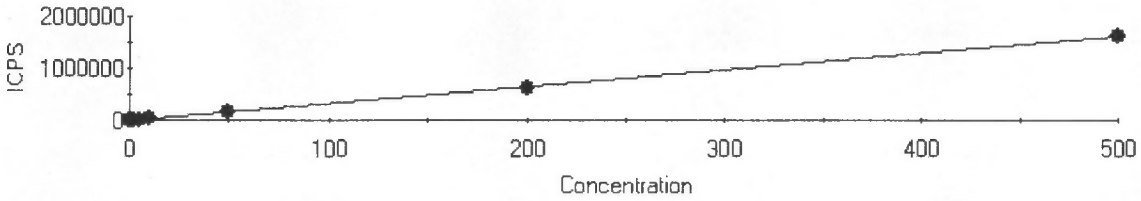
51V FQ Block 1



Intercept CPS=472.038053 Intercept Conc=0.138585
Sensitivity=3406.115763 Correlation Coeff=0.999916

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	472.04	0.00
S2	2.000	1.837	0.163	6729.53	8.14
S5	5.000	4.687	0.313	16435.55	6.27
S10	10.000	9.409	0.591	32521.66	5.91
S50	50.000	46.807	3.193	159902.96	6.39
S200	200.000	194.637	5.363	663429.44	2.68
S500	500.000	502.480	2.480	1711976.83	0.50

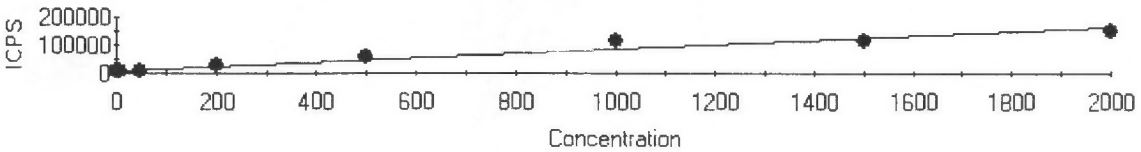
52Cr FQ Block 1



Intercept CPS=1501.765776 Intercept Conc=0.468922
Sensitivity=3202.591540 Correlation Coeff=0.999881

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	1501.77	0.00
S2	2.000	1.884	0.116	7535.89	5.79
S5	5.000	4.712	0.288	16593.46	5.75
S10	10.000	9.342	0.658	31421.20	6.58
S50	50.000	46.662	3.338	150941.37	6.68
S200	200.000	193.482	6.518	621146.92	3.26
S500	500.000	502.957	2.957	1612268.62	0.59

54Fe FQ Block 1

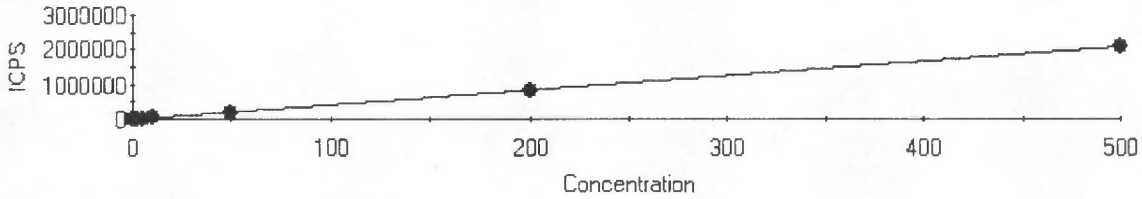


Intercept CPS=4090.471077 Intercept Conc=50.788226
Sensitivity=80.539751 Correlation Coeff=0.978399
Failed : Correlation Check
Results for this analyte will be semi-quant

Label	Defined	Measured	Error	Mean CPS	% Error

S0	0.000	0.000	0.000	4090.47	0.00
S10	10.000	0.554	9.446	5083.59	94.46
S50	50.000	2.884	47.116	9256.66	94.23
S200	200.000	12.155	187.845	25863.47	93.92
S500	500.000	30.535	469.465	58787.40	93.89
S1000	1000.000	60.652	939.348	112736.49	93.93
S1500	1500.000	62.662	1437.338	116338.42	95.82
S2000	2000.000	83.316	1916.684	153335.41	95.83

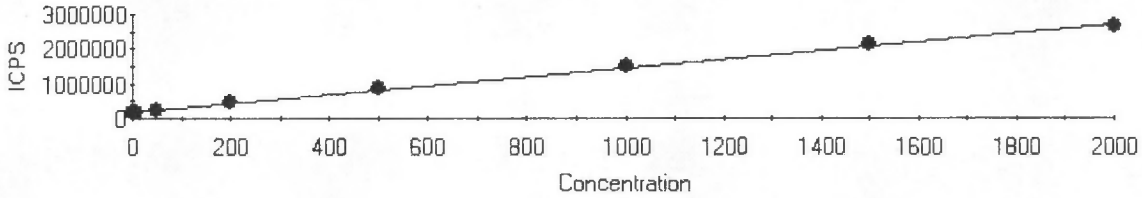
55Mn FQ Block 1



Intercept CPS=172.244881 Intercept Conc=0.041198
Sensitivity=4180.874609 Correlation Coeff=0.999827

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	172.24	0.00
S2	2.000	1.822	0.178	7787.76	8.92
S5	5.000	4.597	0.403	19390.27	8.07
S10	10.000	9.255	0.745	38866.09	7.45
S50	50.000	45.959	4.041	192320.03	8.08
S200	200.000	192.127	7.873	803430.02	3.94
S500	500.000	503.573	3.573	2105548.15	0.71

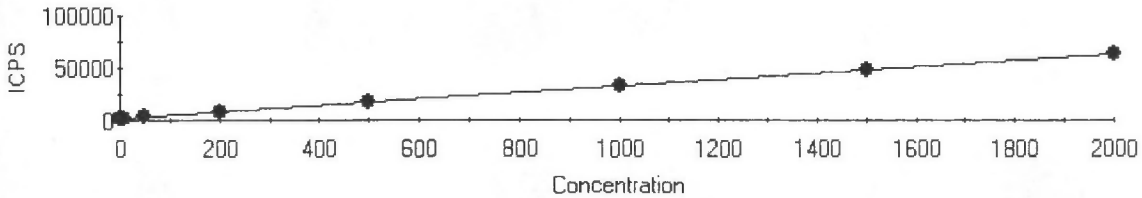
56Fe FQ Block 1



Intercept CPS=185731.707044 Intercept Conc=146.081262
Sensitivity=1271.427313 Correlation Coeff=0.999480

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	185731.71	0.00
S10	10.000	11.402	1.402	200228.16	14.02
S50	50.000	51.416	1.416	251104.04	2.83
S200	200.000	202.601	2.601	443324.62	1.30
S500	500.000	518.422	18.422	844867.36	3.68
S1000	1000.000	1039.244	39.244	1507054.38	3.92
S1500	1500.000	1527.363	27.363	2127663.24	1.82
S2000	2000.000	1954.948	45.052	2671305.56	2.25

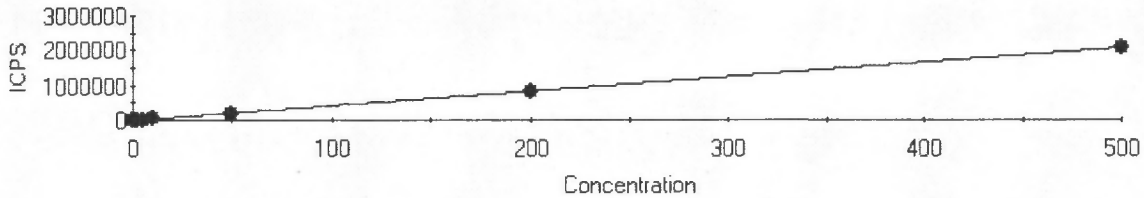
57Fe FQ Block 1



Intercept CPS=1558.342071 Intercept Conc=50.573264
Sensitivity=30.813555 Correlation Coeff=0.999962

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-4.391	4.391	1423.05	0.00
S10	10.000	8.662	1.338	1825.24	13.38
S50	50.000	50.767	0.767	3122.66	1.53
S200	200.000	198.586	1.414	7677.48	0.71
S500	500.000	510.758	10.758	17296.62	2.15
S1000	1000.000	991.876	8.124	32121.57	0.81
S1500	1500.000	1508.961	8.961	48054.81	0.60
S2000	2000.000	1994.780	5.220	63024.61	0.26

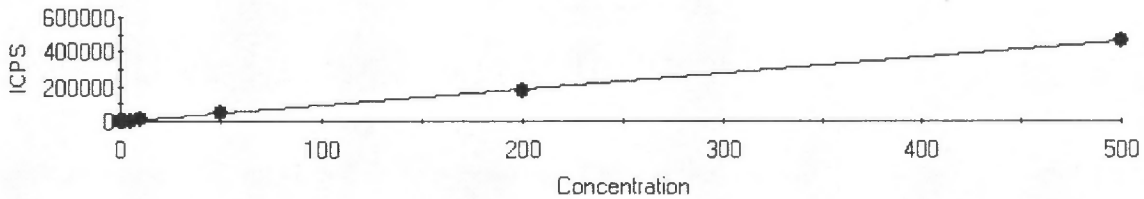
59Co FQ Block 1



Intercept CPS=31.480874 Intercept Conc=0.007587
Sensitivity=4149.160140 Correlation Coeff=0.999794

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	31.48	0.00
S2	2.000	1.827	0.173	7611.26	8.66
S5	5.000	4.608	0.392	19150.14	7.84
S10	10.000	9.184	0.816	38137.97	8.16
S50	50.000	46.256	3.744	191955.18	7.49
S200	200.000	191.242	8.758	793524.43	4.38
S500	500.000	503.899	3.899	2090787.46	0.78

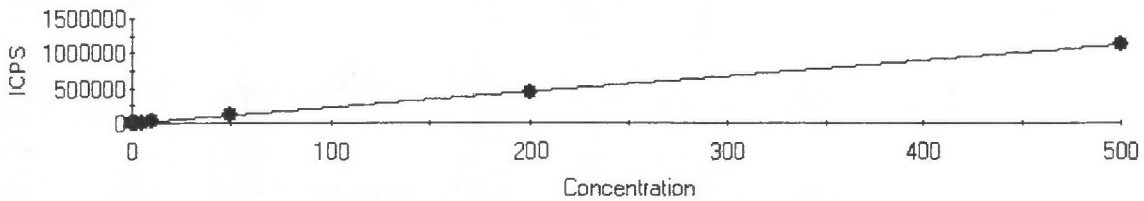
60Ni FQ Block 1



Intercept CPS=16.476567 Intercept Conc=0.018055
Sensitivity=912.571656 Correlation Coeff=0.999949

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	16.48	0.00
S2	2.000	1.879	0.121	1731.14	6.05
S5	5.000	4.813	0.187	4408.77	3.74
S10	10.000	9.599	0.401	8775.94	4.01
S50	50.000	47.753	2.247	43594.93	4.49
S200	200.000	195.749	4.251	178651.67	2.13
S500	500.000	501.935	1.935	458068.45	0.39

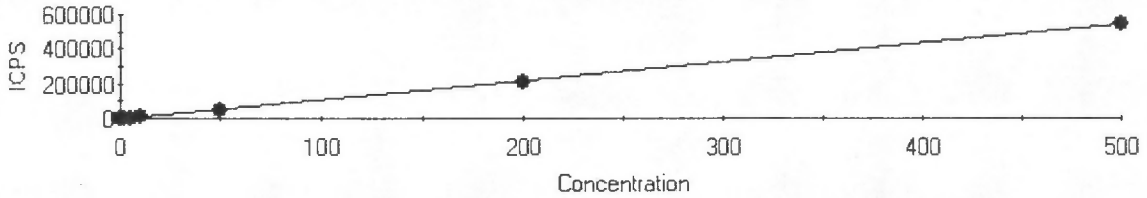
63Cu FQ Block 1



Intercept CPS=207.271224 Intercept Conc=0.091528
Sensitivity=2264.573741 Correlation Coeff=0.999880

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	207.27	0.00
S2	2.000	1.962	0.038	4650.31	1.90
S5	5.000	4.787	0.213	11046.89	4.27
S10	10.000	9.617	0.383	21985.83	3.83
S50	50.000	47.021	2.979	106690.68	5.96
S200	200.000	193.408	6.592	438194.10	3.30
S500	500.000	502.945	2.945	1139162.36	0.59

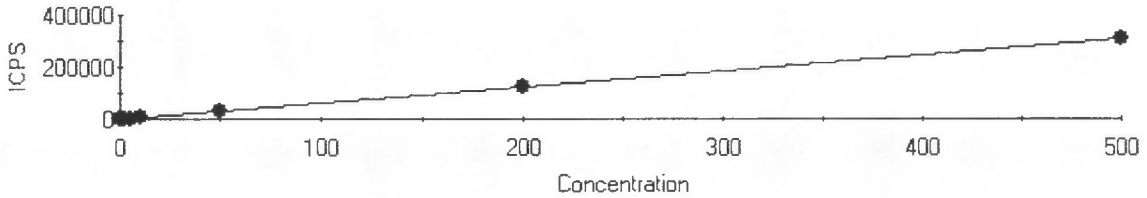
65Cu FQ Block 1



Intercept CPS=40.442825 Intercept Conc=0.037200
Sensitivity=1087.160623 Correlation Coeff=0.999897

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	40.44	0.00
S2	2.000	2.017	0.017	2233.49	0.86
S5	5.000	4.759	0.241	5214.12	4.82
S10	10.000	9.679	0.321	10562.54	3.21
S50	50.000	47.609	2.391	51799.31	4.78
S200	200.000	193.823	6.177	210757.03	3.09
S500	500.000	502.719	2.719	546576.42	0.54

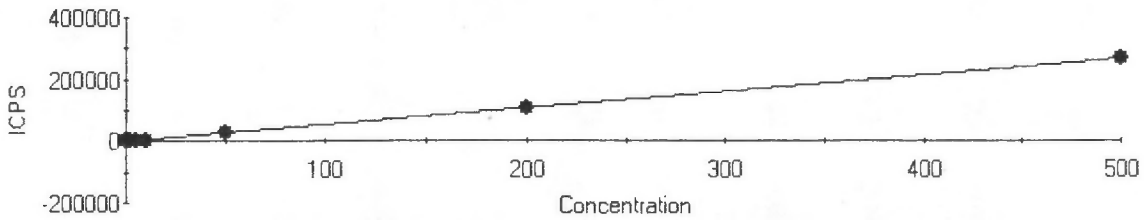
66Zn FQ Block 1



Intercept CPS=95.577262 Intercept Conc=0.155421
Sensitivity=614.955700 Correlation Coeff=0.999942

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	95.58	0.00
S2	2.000	2.402	0.402	1572.79	20.11
S5	5.000	5.402	0.402	3417.50	8.04
S10	10.000	10.461	0.461	6528.84	4.61
S50	50.000	48.092	1.908	29670.00	3.82
S200	200.000	195.716	4.284	120452.13	2.14
S500	500.000	501.890	1.890	308735.46	0.38

75As FQ Block 1

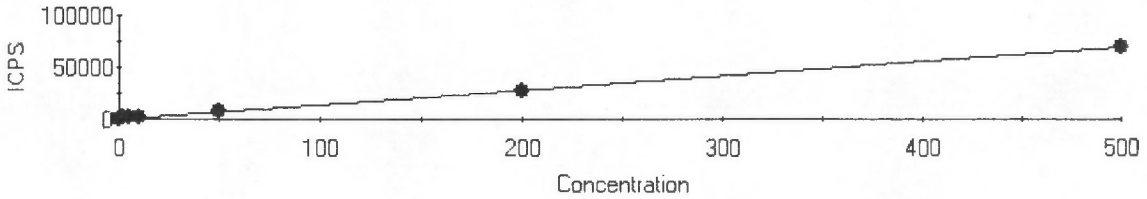


Intercept CPS=-6.013238 Intercept Conc=-0.011118
Sensitivity=540.832473 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error

S0	0.000	-0.000	0.000	-6.01	0.00
S2	2.000	1.983	0.017	1066.25	0.87
S5	5.000	4.803	0.197	2591.41	3.95
S10	10.000	9.705	0.295	5243.01	2.95
S50	50.000	48.460	1.540	26202.76	3.08
S200	200.000	196.622	3.378	106333.63	1.69
S500	500.000	501.513	1.513	271228.54	0.30

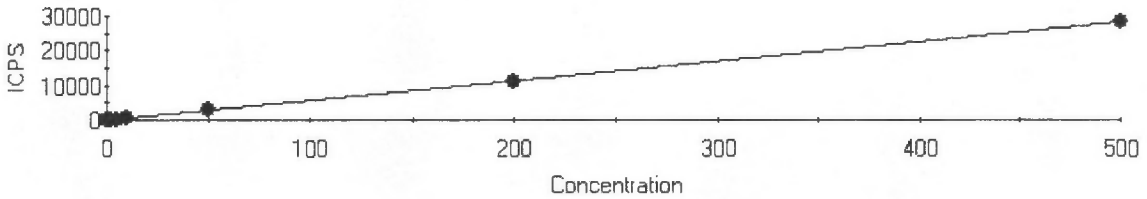
78Se FQ Block 1



Intercept CPS=959.752423 Intercept Conc=7.003453
Sensitivity=137.039888 Correlation Coeff=0.999936

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	959.75	0.00
S2	2.000	2.191	0.191	1260.05	9.56
S5	5.000	5.179	0.179	1669.45	3.58
S10	10.000	9.956	0.044	2324.10	0.44
S50	50.000	48.743	1.257	7639.54	2.51
S200	200.000	195.153	4.847	27703.43	2.42
S500	500.000	502.063	2.063	69762.41	0.41

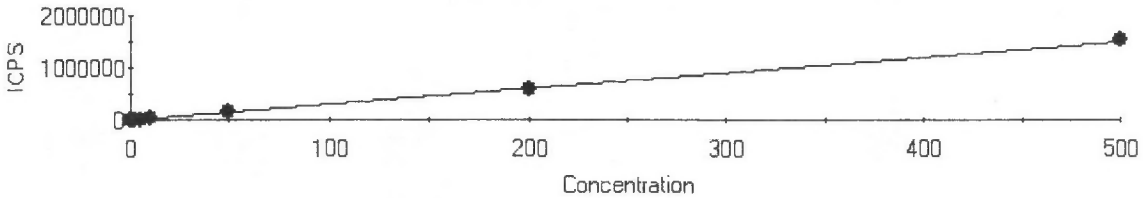
82Se FQ Block 1



Intercept CPS=10.113019 Intercept Conc=0.179469
Sensitivity=56.349797 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	10.11	0.00
S2	2.000	1.892	0.108	116.74	5.39
S5	5.000	4.869	0.131	284.48	2.62
S10	10.000	9.799	0.201	562.26	2.01
S50	50.000	48.746	1.254	2756.97	2.51
S200	200.000	197.815	2.185	11156.97	1.09
S500	500.000	501.005	1.005	28241.64	0.20

107Ag FQ Block 1

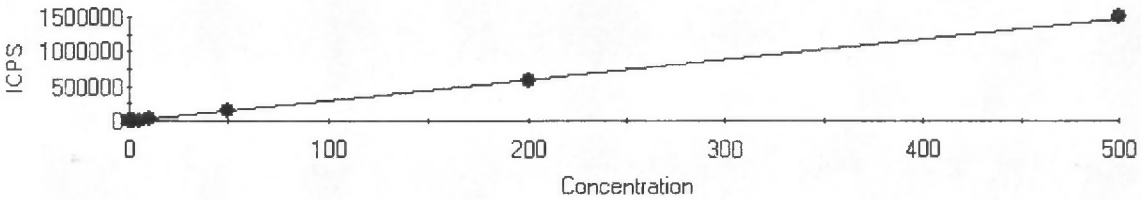


Intercept CPS=40.230704 Intercept Conc=0.013293
Sensitivity=3026.376381 Correlation Coeff=0.999879

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	40.23	0.00

S2	2.000	1.857	0.143	5661.22	7.13
S5	5.000	4.710	0.290	14295.62	5.79
S10	10.000	9.362	0.638	28374.52	6.38
S50	50.000	46.876	3.124	141903.35	6.25
S200	200.000	193.358	6.642	585214.67	3.32
S500	500.000	502.985	2.985	1522263.41	0.60

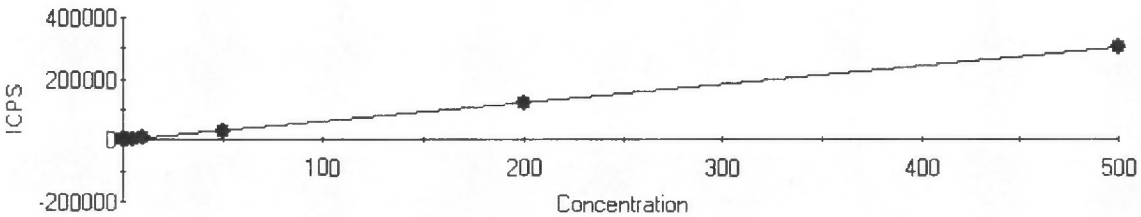
109Ag FQ Block 1



Intercept CPS=19.574121 Intercept Conc=0.006621
Sensitivity=2956.479164 Correlation Coeff=0.999878

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	19.57	0.00
S2	2.000	1.856	0.144	5507.66	7.19
S5	5.000	4.702	0.298	13921.27	5.96
S10	10.000	9.390	0.610	27780.09	6.10
S50	50.000	46.824	3.176	138454.08	6.35
S200	200.000	193.340	6.660	571624.97	3.33
S500	500.000	502.997	2.997	1487120.87	0.60

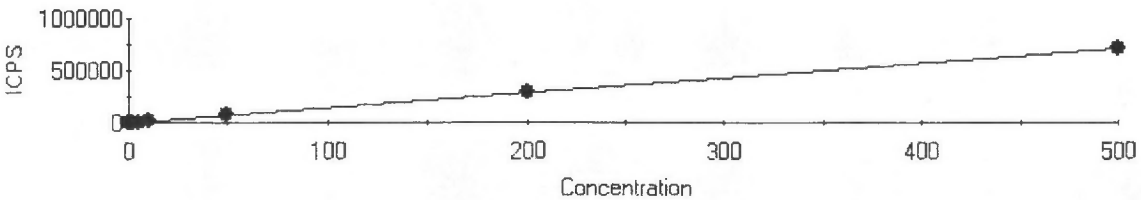
111Cd FQ Block 1



Intercept CPS=0.602644 Intercept Conc=0.001001
Sensitivity=602.161104 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	0.60	0.00
S2	2.000	1.982	0.018	1194.01	0.91
S5	5.000	4.926	0.074	2966.79	1.48
S10	10.000	9.681	0.319	5829.99	3.19
S50	50.000	48.034	1.966	28925.00	3.93
S200	200.000	197.810	2.190	119113.84	1.10
S500	500.000	501.080	1.080	301731.45	0.22

114Cd FQ Block 1

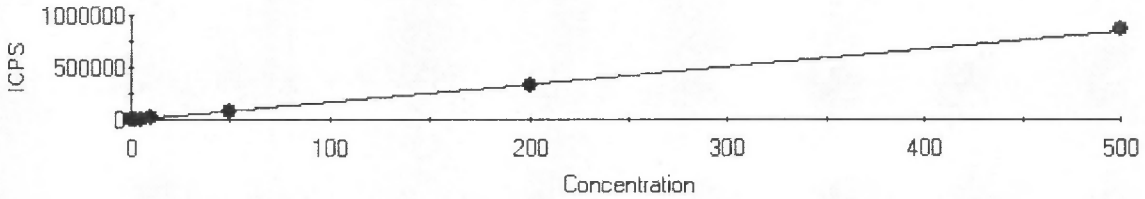


Intercept CPS=2.871408 Intercept Conc=0.001999
Sensitivity=1436.428157 Correlation Coeff=0.999960

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	2.87	0.00
S2	2.000	1.908	0.092	2743.42	4.61

S5	5.000	4.845	0.155	6962.79	3.09
S10	10.000	9.614	0.386	13812.61	3.86
S50	50.000	47.682	2.318	68494.34	4.64
S200	200.000	196.400	3.600	282116.83	1.80
S500	500.000	501.682	1.682	720632.46	0.34

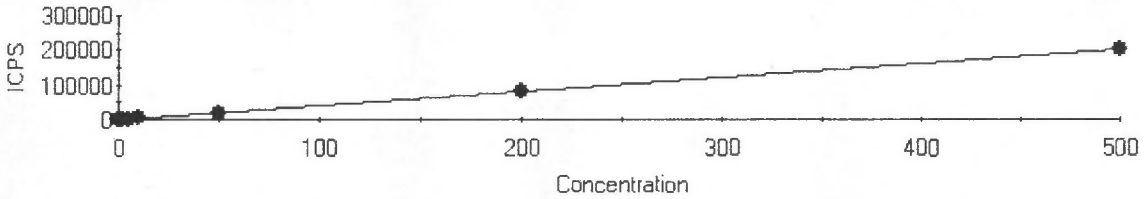
121Sb FQ Block 1



Intercept CPS=10.014994 Intercept Conc=0.005874
Sensitivity=1705.071533 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	10.01	0.00
S2	2.000	1.853	0.147	3168.99	7.37
S5	5.000	4.732	0.268	8079.19	5.35
S10	10.000	9.418	0.582	16068.83	5.82
S50	50.000	47.257	2.743	80586.66	5.49
S200	200.000	195.705	4.295	333700.32	2.15
S500	500.000	502.007	2.007	855968.48	0.40

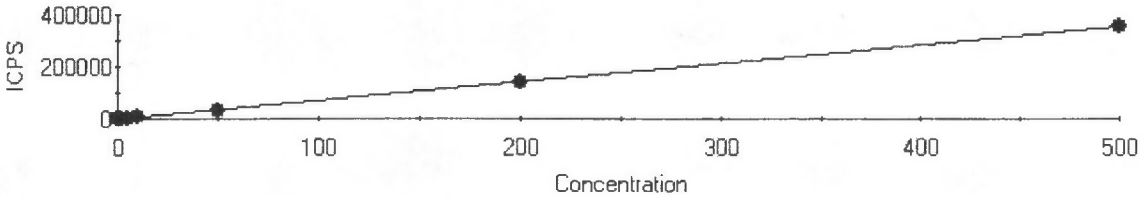
135Ba FQ Block 1



Intercept CPS=5.013339 Intercept Conc=0.012470
Sensitivity=402.025144 Correlation Coeff=0.999975

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	5.01	0.00
S2	2.000	1.944	0.056	786.52	2.80
S5	5.000	4.842	0.158	1951.63	3.16
S10	10.000	9.736	0.264	3919.24	2.64
S50	50.000	48.388	1.612	19458.09	3.22
S200	200.000	197.026	2.974	79214.62	1.49
S500	500.000	501.358	1.358	201563.42	0.27

137Ba FQ Block 1

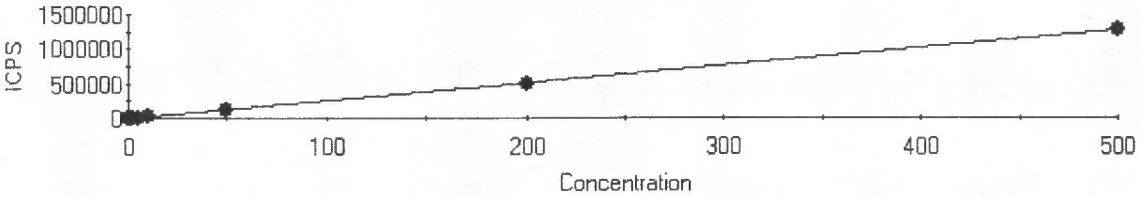


Intercept CPS=3.502733 Intercept Conc=0.004949
Sensitivity=707.810904 Correlation Coeff=0.999959

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	3.50	0.00
S2	2.000	1.907	0.093	1353.16	4.66
S5	5.000	4.904	0.096	3474.36	1.93

S10	10.000	9.594	0.406	6794.49	4.06
S50	50.000	48.054	1.946	34016.43	3.89
S200	200.000	196.212	3.788	138884.46	1.89
S500	500.000	501.719	1.719	355125.89	0.34

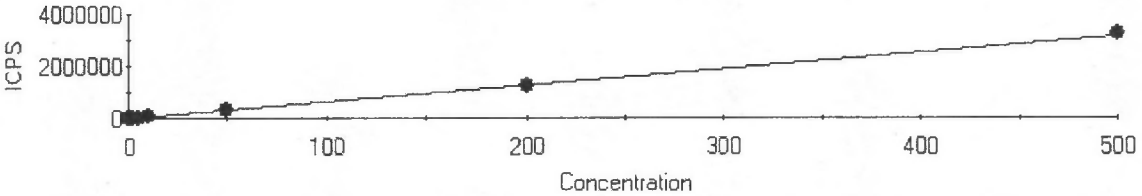
203Tl FQ Block 1



Intercept CPS=121.353365 Intercept Conc=0.047993
Sensitivity=2528.545056 Correlation Coeff=0.999910

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	121.35	0.00
S2	2.000	1.849	0.151	4796.84	7.55
S5	5.000	4.732	0.268	12085.54	5.37
S10	10.000	9.512	0.488	24173.51	4.88
S50	50.000	47.085	2.915	119176.94	5.83
S200	200.000	194.350	5.650	491543.22	2.83
S500	500.000	502.565	2.565	1270878.88	0.51

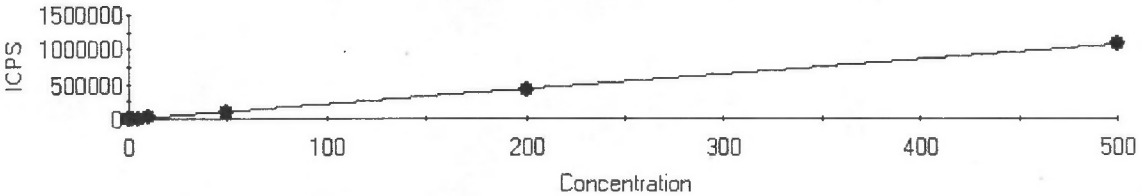
205Tl FQ Block 1



Intercept CPS=300.024052 Intercept Conc=0.047306
Sensitivity=6342.263373 Correlation Coeff=0.999711

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	300.02	0.00
S2	2.000	1.775	0.225	11554.77	11.27
S5	5.000	4.519	0.481	28962.98	9.61
S10	10.000	9.020	0.980	57508.35	9.80
S50	50.000	45.138	4.862	286578.91	9.72
S200	200.000	189.707	10.293	1203471.43	5.15
S500	500.000	504.629	4.629	3200788.13	0.93

206Pb FQ Block 1

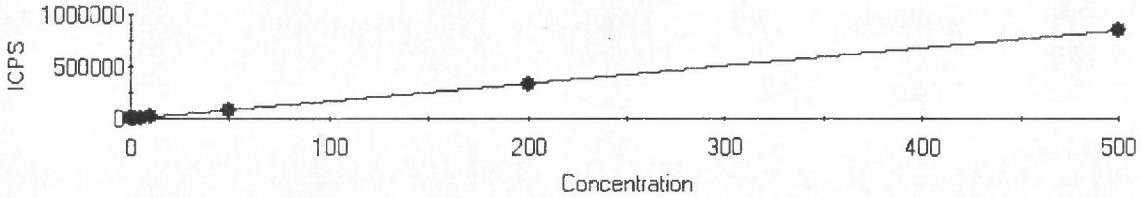


Intercept CPS=35.009424 Intercept Conc=0.016365
Sensitivity=2139.235344 Correlation Coeff=0.999919

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	35.01	0.00
S2	2.000	1.856	0.144	4005.33	7.20
S5	5.000	4.811	0.189	10326.83	3.78
S10	10.000	9.487	0.513	20330.53	5.13

S50	50.000	47.107	2.893	100808.54	5.79
S200	200.000	194.690	5.310	416521.89	2.66
S500	500.000	502.426	2.426	1074842.79	0.49

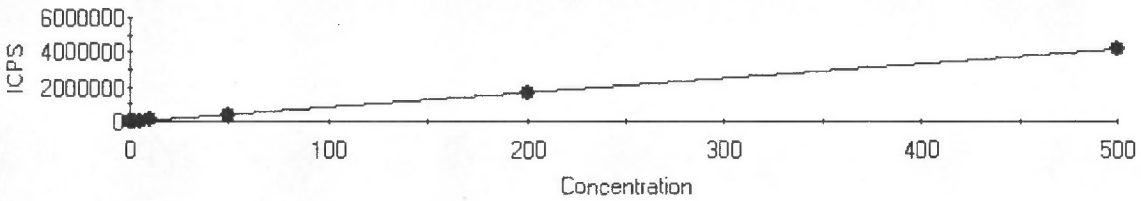
207Pb FQ Block 1



Intercept CPS=31.488058 Intercept Conc=0.018618
Sensitivity=1691.272460 Correlation Coeff=0.999941

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	31.49	0.00
S2	2.000	1.895	0.105	3235.82	5.27
S5	5.000	4.797	0.203	8144.07	4.07
S10	10.000	9.513	0.487	16120.50	4.87
S50	50.000	47.559	2.441	80466.62	4.88
S200	200.000	195.429	4.571	330555.84	2.29
S500	500.000	502.085	2.085	849193.25	0.42

208Pb FQ Block 1



Intercept CPS=145.548655 Intercept Conc=0.017692
Sensitivity=8226.981417 Correlation Coeff=0.999887

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	145.55	0.00
S2	2.000	1.833	0.167	15222.06	8.37
S5	5.000	4.738	0.262	39126.54	5.24
S10	10.000	9.365	0.635	77190.50	6.35
S50	50.000	46.652	3.348	383949.34	6.70
S200	200.000	193.674	6.326	1593500.21	3.16
S500	500.000	502.881	2.881	4137338.98	0.58

Dilution Corrected Concentrations

S0 07/10/2008 12:40:25

User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:41:02	98.81%	0.0053	0.0404	-0.0597	0.2355	-0.0239	1.6226	98.44%
2	12:41:39	99.56%	0.0009	0.0178	-0.0167	-0.1255	-0.0142	-0.4431	99.62%
3	12:42:15	100.97%	-0.0049	0.0654	-0.1105	-0.0497	0.0062	-0.2312	100.24%
4	12:42:52	100.06%	0.0035	-0.0617	0.1616	-0.0496	-0.0017	-0.6544	101.05%
5	12:43:29	100.59%	-0.0048	-0.0619	0.0253	-0.0107	0.0336	-0.2938	100.65%
x		100.00%	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000	100.00%
%RSD		0.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.02

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:41:02	0.0024	0.0164	0.0033	ID -0.0829	0.0093	2.6504	-0.7541	-0.0021
2	12:41:39	-0.0141	0.0054	0.0249	ID -0.0341	0.0021	-0.4620	-4.2871	0.0033
3	12:42:15	0.0113	-0.0071	-0.0285	ID 0.1400	-0.0000	-0.1854	-7.0750	-0.0016
4	12:42:52	-0.0020	-0.0129	-0.0087	ID -0.0658	-0.0069	-1.2051	-3.3660	0.0019
5	12:43:29	0.0024	-0.0018	0.0090	ID 0.0428	-0.0045	-0.7979	-6.4715	-0.0016
x		-0.0000	-0.0000	-0.0000	ID 0.0000	-0.0000	-0.0000	-4.3907	0.0000
%RSD		0.0000	0.0000	0.0000	ID 0.0000	0.0000	0.0000	57.8650	0.0000

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:41:02	-0.0041	0.0132	-0.0114	0.0063	-0.0060	-0.1813	-0.0594	0.3537
2	12:41:39	-0.0043	0.0050	0.0067	0.0204	0.0167	0.0671	0.1622	-0.2690
3	12:42:15	0.0065	0.0120	-0.0028	0.0068	-0.0336	-0.0604	-0.1066	-0.0576
4	12:42:52	-0.0018	-0.0129	-0.0031	-0.0027	0.0124	0.2856	0.0096	-0.2174
5	12:43:29	0.0036	-0.0173	0.0105	-0.0309	0.0105	-0.1111	-0.0057	0.1903
x		-0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	0.0000
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:41:02	97.57%	0.0002	0.4718	0.0033	0.0009	-0.0007	97.78%	0.0000
2	12:41:39	99.25%	-0.0008	-0.5643	0.0006	-0.0012	0.0004	99.42%	0.0000
3	12:42:15	100.19%	-0.0030	0.4254	-0.0007	-0.0012	-0.0008	100.52%	0.0000
4	12:42:52	101.25%	0.0018	0.1188	-0.0033	0.0008	-0.0007	101.34%	0.0000
5	12:43:29	101.74%	0.0018	-0.4518	0.0001	0.0008	0.0018	100.94%	0.0000
x		100.00%	0.0000	-0.0000	0.0000	0.0000	-0.0000	100.00%	0.0000
%RSD		1.67	0.0000	0.0000	0.0000	0.0000	0.0000	1.43	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:41:02	0.0031	0.0002	-0.0013	T 98.26%	0.0038	-0.0034	-0.0007	-0.0019
2	12:41:39	-0.0015	-0.0000	0.0057	T 100.13%	0.0021	-0.0042	-0.0011	0.0007
3	12:42:15	-0.0029	0.0125	-0.0014	98.78%	0.0004	0.0025	0.0069	0.0020
4	12:42:52	0.0028	-0.0002	-0.0015	T 101.81%	-0.0052	0.0036	0.0009	-0.0041
5	12:43:29	-0.0015	-0.0125	-0.0015	T 101.02%	-0.0011	0.0015	-0.0060	0.0033
x		0.0000	0.0000	-0.0000	T 100.00%	-0.0000	0.0000	-0.0000	0.0000
%RSD		0.0000	0.0000	0.0000	T 1.49	0.0000	0.0000	0.0000	0.0000

Run	Time	208Pb	209Bi	220Rn
		ug/L	ug/L	ug/L
1	12:41:02	0.0001	97.23%	0.0000
2	12:41:39	0.0009	99.62%	0.0000
3	12:42:15	0.0008	100.34%	0.0000
4	12:42:52	-0.0006	101.51%	0.0000
5	12:43:29	-0.0012	101.30%	0.0000
x		0.0000	100.00%	0.0000
%RSD		0.0000	1.73	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:46:55	97.15%	1.9851	2.0886	1.8223	2.4136	2.1014	4.5506	92.76%
2	12:47:32	98.08%	1.9263	2.0603	1.7429	1.8003	2.0780	4.9032	94.69%
3	12:48:09	98.86%	1.8526	2.2520	1.4866	2.0188	2.1691	6.3315	96.00%
4	12:48:45	99.21%	1.9077	2.4061	2.6217	2.1106	2.2040	9.2841	97.89%
5	12:49:22	99.70%	1.9542	2.4492	2.0134	2.8585	2.2917	11.5630	98.02%
x		98.60%	1.9252	2.2513	1.9374	2.2404	2.1688	7.3265	95.87%
%RSD		1.02	2.5974	7.8859	22.0260	18.2910	3.9359	41.1440	2.32

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:46:55	0.0292	1.8007	1.8963	ID -0.0163	1.8083	5.0652	5.4192	1.8302
2	12:47:32	0.0304	1.7458	1.8739	ID 0.0183	1.8359	4.4822	5.5106	1.8127
3	12:48:09	0.0084	1.9096	1.8578	ID -0.0425	1.8114	4.2468	2.5881	1.8159
4	12:48:45	0.0305	1.8581	1.8769	ID -0.0826	1.8093	2.0606	3.6666	1.7927
5	12:49:22	-0.0003	1.8714	1.9158	ID -0.0845	1.8427	2.5800	1.5878	1.8826
x		0.0196	1.8371	1.8841	ID -0.0415	1.8215	3.6870	3.7545	1.8268
%RSD		74.1520	3.5003	1.1875	ID 105.9700	0.9016	35.1440	45.9750	1.8570

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:46:55	2.0110	1.9643	1.9054	2.1602	1.9798	2.6284	1.7021	0.4610
2	12:47:32	1.8577	2.0154	1.9468	2.3214	2.0993	1.7990	1.9623	-0.3838
3	12:48:09	1.7555	1.9059	2.0673	2.5506	1.9314	2.3201	1.7716	-0.0268
4	12:48:45	1.8975	1.9949	2.0974	2.6248	1.9441	1.8591	1.8990	0.5579
5	12:49:22	1.8730	1.9294	2.0692	2.3537	1.9584	2.3499	2.1258	0.0505
x		1.8789	1.9620	2.0172	2.4021	1.9826	2.1913	1.8922	0.1318
%RSD		4.8712	2.2996	4.2282	7.7599	3.4129	16.0870	8.7731	290.8600

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:46:55	90.82%	1.8318	-1.0460	1.8441	1.9125	1.8264	89.57%	0.0000
2	12:47:32	93.72%	1.8165	-1.0419	1.8515	2.0117	1.8818	92.85%	0.0000
3	12:48:09	94.46%	1.8927	-0.3141	1.8748	2.0100	1.9393	93.79%	0.0000
4	12:48:45	95.66%	1.9065	-0.2655	1.8717	1.9258	1.9126	95.24%	0.0000
5	12:49:22	97.37%	1.8391	0.2005	1.8393	2.0492	1.9793	96.04%	0.0000
x		94.40%	1.8573	-0.4934	1.8563	1.9819	1.9079	93.50%	0.0000
%RSD		2.58	2.1389	109.7000	0.8700	3.0036	3.0371	2.70	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:46:55	1.8668	1.9817	1.9539	84.76%	1.8747	1.7812	1.8910	1.9876
2	12:47:32	1.7690	1.7757	1.9324	T 90.59%	1.8180	1.7755	1.7892	1.9459
3	12:48:09	2.0342	1.9433	1.8330	90.39%	1.8269	1.7544	1.8139	1.8481
4	12:48:45	1.7901	2.1553	1.9172	91.54%	1.8503	1.7629	1.8927	1.8236
5	12:49:22	1.8033	1.8636	1.8975	92.66%	1.8755	1.7987	1.8928	1.8680
x		1.8527	1.9439	1.9068	T 89.99%	1.8491	1.7746	1.8560	1.8946
%RSD		5.8188	7.3147	2.4187	T 3.40	1.4329	0.9639	2.7156	3.6555

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	12:46:55	1.8611	85.21%	0.0000
2	12:47:32	1.8101	89.67%	0.0000
3	12:48:09	1.7942	91.52%	0.0000
4	12:48:45	1.8260	93.49%	0.0000
5	12:49:22	1.8715	94.26%	0.0000
x		1.8326	90.83%	0.0000
%RSD		1.7982	3.98	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:52:49	97.54%	5.0573	5.1352	4.2934	4.5713	5.2487	7.6964	95.31%
2	12:53:25	97.96%	4.9917	5.3288	4.9049	5.0080	5.1460	4.2690	96.73%
3	12:54:02	99.86%	4.9642	5.4121	6.4242	4.5188	5.1383	5.5240	98.25%
4	12:54:40	98.95%	4.9516	5.4455	5.0821	5.0632	5.3755	6.8168	99.51%
5	12:55:17	100.31%	4.8943	5.4911	4.9968	6.0869	5.1498	9.2790	99.57%
x		98.92%	4.9718	5.3625	5.1403	5.0496	5.2117	6.7170	97.87%
%RSD		1.20	1.1978	2.6157	15.2100	12.4800	1.9601	28.7800	1.88

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:52:49	0.0749	4.7152	4.8179	ID 0.0991	4.4888	7.8051	10.6590	4.6030
2	12:53:25	0.0492	4.7375	4.7650	ID 0.0918	4.7019	5.0823	2.7000	4.6170
3	12:54:02	0.0287	4.7038	4.7503	ID 0.1501	4.6749	5.6008	5.9236	4.6395
4	12:54:40	0.0261	4.6663	4.6344	ID 0.2705	4.5570	3.2771	1.7174	4.5321
5	12:55:17	0.0275	4.6107	4.5941	ID 0.2305	4.5606	3.0763	1.9383	4.6475
x		0.0413	4.6867	4.7123	ID 0.1684	4.5967	4.9683	4.5877	4.6078
%RSD		51.0280	1.0605	1.9965	ID 47.2200	1.9363	38.8470	82.6210	0.9955

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:52:49	4.7673	4.7712	4.7487	5.2042	4.9987	5.1968	4.9704	0.8328
2	12:53:25	4.8203	4.7686	4.8661	5.5973	4.6512	5.2393	4.9005	1.2543
3	12:54:02	4.8460	4.8523	4.6465	5.3620	4.7822	5.5654	4.7320	0.0977
4	12:54:40	4.8527	4.8289	4.6673	5.4051	4.9900	5.1084	5.4133	0.0344
5	12:55:17	4.7792	4.7120	4.8658	5.4409	4.5911	4.7840	4.3290	1.1970
x		4.8131	4.7866	4.7589	5.4019	4.8026	5.1788	4.8690	0.6832
%RSD		0.8009	1.1551	2.2054	2.6246	3.9182	5.4122	8.0718	85.8540

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:52:49	92.60%	4.7482	-1.6206	4.7718	4.9411	4.8379	92.19%	0.0000
2	12:53:25	95.92%	4.7239	-0.2769	4.6969	4.8049	4.9046	95.74%	0.0000
3	12:54:02	97.77%	4.7774	-0.8222	4.6765	4.9813	4.8446	97.52%	0.0000
4	12:54:40	99.39%	4.6947	-0.0344	4.6644	4.9674	4.7804	100.05%	0.0000
5	12:55:17	100.89%	4.6077	-0.1130	4.7009	4.9349	4.8589	100.41%	0.0000
x		97.31%	4.7104	-0.5734	4.7021	4.9259	4.8453	97.18%	0.0000
%RSD		3.31	1.3797	115.3200	0.8873	1.4265	0.9208	3.48	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:52:49	4.6046	4.9667	4.9685	87.36%	4.8115	4.5114	4.8469	4.7805
2	12:53:25	4.7310	4.9169	5.0370	92.51%	4.6946	4.5667	4.9542	4.8007
3	12:54:02	4.7102	5.0170	4.9959	T 98.17%	4.7757	4.5501	4.7905	4.7045
4	12:54:40	4.7552	4.6798	4.8527	T 99.81%	4.7065	4.4626	4.6818	4.8610
5	12:55:17	4.8614	4.6297	4.6642	T 101.15%	4.6699	4.5060	4.7815	4.8370
x		4.7325	4.8420	4.9036	T 95.80%	4.7316	4.5194	4.8110	4.7967
%RSD		1.9477	3.6242	3.0665	T 6.00	1.2568	0.9021	2.0725	1.2571

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	12:52:49	4.7439	88.45%	0.0000
2	12:53:25	4.7594	94.05%	0.0000
3	12:54:02	4.7746	96.76%	0.0000
4	12:54:40	4.6898	99.49%	0.0000
5	12:55:17	4.7232	100.99%	0.0000
x		4.7382	95.95%	0.0000
%RSD		0.6984	5.17	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:58:43	99.67%	9.7436	10.2300	10.1450	10.0950	10.1880	15.9130	95.92%
2	12:59:20	99.35%	9.9024	10.5860	10.9990	11.7340	10.0890	15.1740	97.59%
3	12:59:57	100.34%	9.8340	10.7210	9.9406	11.3970	10.3830	14.8530	98.25%
4	13:00:34	101.06%	9.8587	10.8970	10.0160	9.8632	10.4220	16.1990	99.60%
5	13:01:10	101.53%	10.0370	10.4700	9.2910	10.4790	10.3320	16.8820	100.06%
x		100.39%	9.8751	10.5810	10.0780	10.7140	10.2830	15.8040	98.28%
%RSD		0.91	1.0865	2.3833	6.0643	7.6244	1.3608	5.1339	1.68

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:58:43	0.0621	9.6320	9.1899	ID 0.4563	9.2943	13.7900	11.1960	9.2352
2	12:59:20	0.0512	9.2708	9.3983	ID 0.5867	9.0781	11.9400	8.7735	9.2624
3	12:59:57	0.0272	9.5754	9.6013	ID 0.6775	9.3809	11.0020	10.6210	9.2231
4	13:00:34	0.0160	9.2663	9.2213	ID 0.5448	9.3095	10.0650	8.7557	9.1397
5	13:01:10	0.0200	9.3026	9.3005	ID 0.5068	9.2121	10.2120	3.9628	9.0603
x		0.0353	9.4094	9.3423	ID 0.5544	9.2550	11.4020	8.6616	9.1841
%RSD		57.4230	1.9026	1.7735	ID 15.1430	1.2494	13.4110	32.8370	0.9038

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:58:43	9.4742	9.6110	9.8754	10.5480	9.6505	10.2980	9.7297	1.4240
2	12:59:20	9.7190	9.5804	9.6642	10.3630	9.8205	9.9411	9.9834	0.3257
3	12:59:57	9.5790	9.6387	9.4877	10.6210	9.8511	9.9259	10.1680	0.0332
4	13:00:34	9.6250	9.6834	9.8555	10.2910	9.9100	9.9368	10.1150	0.7385
5	13:01:10	9.5961	9.5718	9.5097	10.4840	9.2951	9.6779	8.9960	0.8625
x		9.5987	9.6171	9.6785	10.4610	9.7054	9.9558	9.7986	0.6768
%RSD		0.9182	0.4736	1.8998	1.2848	2.5641	2.2203	4.8947	78.6750

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:58:43	93.84%	9.4205	-0.8861	9.3905	9.6411	9.6603	93.58%	0.0000
2	12:59:20	96.78%	9.4009	-0.5150	9.5082	9.6322	9.5624	96.14%	0.0000
3	12:59:57	97.82%	9.3463	-0.7046	9.2847	9.4142	9.5747	97.71%	0.0000
4	13:00:34	98.68%	9.3492	0.9119	9.3212	9.9434	9.6660	98.26%	0.0000
5	13:01:10	100.08%	9.2953	-0.1125	9.4440	9.7731	9.6062	99.46%	0.0000
x		97.44%	9.3624	-0.2613	9.3897	9.6808	9.6139	97.03%	0.0000
%RSD		2.41	0.5286	274.0000	0.9628	2.0169	0.4967	2.34	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	12:58:43	9.3258	9.9284	9.6837	89.86%	9.5957	9.0638	9.6703	9.3467
2	12:59:20	9.4245	9.7168	9.3965	T 95.46%	9.5190	8.9986	9.4782	9.4123
3	12:59:57	9.2731	9.7900	9.5140	T 97.18%	9.3777	8.9728	9.3971	9.7466
4	13:00:34	9.4368	9.7715	9.9221	95.69%	9.5311	9.0599	9.4205	9.6154
5	13:01:10	9.6311	9.4746	9.4554	97.17%	9.5378	9.0058	9.4703	9.4438
x		9.4183	9.7363	9.5944	T 95.07%	9.5123	9.0202	9.4873	9.5130
%RSD		1.4567	1.7021	2.2131	T 3.18	0.8495	0.4434	1.1360	1.7247

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	12:58:43	9.4024	90.53%	0.0000
2	12:59:20	9.3657	94.09%	0.0000
3	12:59:57	9.3245	96.46%	0.0000
4	13:00:34	9.3841	97.55%	0.0000
5	13:01:10	9.3480	98.65%	0.0000
x		9.3649	95.46%	0.0000
%RSD		0.3245	3.38	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:04:38	99.21%	48.5560	46.9350	50.8870	47.0230	48.0580	54.1190	93.71%
2	13:05:14	99.75%	48.9570	47.9680	51.4920	47.8100	48.5690	53.5950	95.63%
3	13:05:51	99.46%	49.1850	49.4490	50.9910	51.8960	48.3790	58.4020	96.40%
4	13:06:28	101.05%	48.2430	49.4120	50.3990	50.2820	49.0940	59.7330	98.53%
5	13:07:05	100.57%	48.5500	50.4800	51.3280	53.0880	48.5630	58.1760	98.25%
x		100.01%	48.6980	48.8490	51.0190	50.0200	48.5330	56.8050	96.50%
%RSD		0.77	0.7641	2.8547	0.8332	5.1806	0.7753	4.8632	2.06

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:04:38	0.0665	47.2280	46.9520	ID 2.8428	46.0920	54.4890	58.2750	46.5160
2	13:05:14	0.0475	47.4370	46.9810	ID 2.8610	46.3000	52.7390	53.7870	45.9760
3	13:05:51	0.0273	46.3440	46.3530	ID 2.8828	46.0640	51.7770	49.9940	46.5800
4	13:06:28	0.0299	46.3860	46.2060	ID 2.9706	45.9200	47.7220	46.7390	45.9950
5	13:07:05	0.0432	46.6410	46.8180	ID 2.8629	45.4180	50.3550	45.0410	46.2130
x		0.0429	46.8070	46.6620	ID 2.8840	45.9590	51.4160	50.7670	46.2560
%RSD		36.6690	1.0650	0.7683	ID 1.7490	0.7211	4.9673	10.5670	0.6119

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:04:38	47.8810	47.3610	48.1150	47.2490	49.0680	49.3760	48.9440	-0.0946
2	13:05:14	48.0050	47.4240	47.9030	48.7000	48.0440	49.3320	47.5350	0.1995
3	13:05:51	48.6030	47.4380	47.7120	48.1960	48.2700	48.2440	48.6620	0.2923
4	13:06:28	47.5720	46.1410	47.1050	48.5570	48.1330	48.5460	48.8020	1.4217
5	13:07:05	46.7060	46.7430	47.2110	47.7580	48.7850	48.2190	49.7890	0.1519
x		47.7530	47.0210	47.6090	48.0920	48.4600	48.7430	48.7460	0.3941
%RSD		1.4552	1.2140	0.9195	1.2392	0.9178	1.1740	1.6550	150.1900

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:04:38	91.20%	47.0520	-2.2392	47.0740	47.6160	47.6860	89.89%	0.0000
2	13:05:14	93.65%	46.6370	0.0378	46.8780	48.4250	47.2850	93.18%	0.0000
3	13:05:51	96.17%	46.8930	-0.5915	46.9590	48.3670	47.5470	95.15%	0.0000
4	13:06:28	97.46%	46.7980	-1.2078	46.5480	47.9640	48.1530	96.86%	0.0000
5	13:07:05	98.00%	46.9990	-0.1626	46.6620	47.8000	47.7380	98.03%	0.0000
x		95.30%	46.8760	-0.8327	46.8240	48.0340	47.6820	94.62%	0.0000
%RSD		2.98	0.3530	110.4600	0.4604	0.7346	0.6637	3.40	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:04:38	46.6830	49.4920	49.1760	85.14%	46.9020	44.9650	46.6220	47.3420
2	13:05:14	47.0190	48.6820	47.7980	89.13%	47.1710	45.3190	47.7130	47.8240
3	13:05:51	47.5840	47.9940	48.4720	91.75%	46.9990	45.2500	46.7330	47.0070
4	13:06:28	47.6920	48.7790	48.1750	94.26%	47.1580	44.9440	47.5300	47.5050
5	13:07:05	47.3080	46.9910	46.6480	T 98.17%	47.1940	45.2140	46.9390	48.1170
x		47.2570	48.3880	48.0540	T 91.69%	47.0850	45.1380	47.1070	47.5590
%RSD		0.8755	1.9513	1.9437	T 5.40	0.2715	0.3816	1.0339	0.9022

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:04:38	46.4710	85.94%	0.0000
2	13:05:14	47.0180	90.26%	0.0000
3	13:05:51	46.3540	94.03%	0.0000
4	13:06:28	46.7490	96.19%	0.0000
5	13:07:05	46.6670	97.52%	0.0000
x		46.6520	92.79%	0.0000
%RSD		0.5515	5.08	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:10:32	98.09%	198.9400	198.0300	204.9900	198.7600	197.9700	207.8600	93.52%
2	13:11:09	97.70%	200.4200	204.8900	209.2400	205.6800	199.4100	209.3500	94.59%
3	13:11:45	99.99%	197.1200	204.6700	197.8600	211.0100	197.3600	200.1000	96.28%
4	13:12:22	99.53%	196.0600	203.6500	208.3100	205.2900	195.1800	205.8300	96.41%
5	13:12:59	99.40%	197.1100	203.7700	204.7700	210.2900	198.9600	208.2900	96.98%
x		98.94%	197.9300	203.0000	205.0400	206.2100	197.7800	206.2900	95.56%
%RSD		1.00	0.8760	1.3942	2.1802	2.3788	0.8382	1.7866	1.52

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:10:32	0.0789	195.9000	195.0900	ID 12.1230	192.7100	204.0500	203.6800	191.9000
2	13:11:09	0.0485	195.8400	194.2200	ID 12.1910	192.0300	206.4800	200.2200	192.2400
3	13:11:45	0.0378	192.9900	192.2300	ID 12.0020	191.3500	200.4100	198.0600	191.3400
4	13:12:22	0.0362	194.4200	193.5600	ID 12.0730	192.2400	201.6600	198.6400	191.1900
5	13:12:59	0.0416	194.0400	192.3100	ID 12.3850	192.3000	200.4000	192.3300	189.5500
x		0.0486	194.6400	193.4800	ID 12.1550	192.1300	202.6000	198.5900	191.2400
%RSD		36.1990	0.6383	0.6354	ID 1.2019	0.2583	1.2986	2.0781	0.5431

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:10:32	197.3700	195.1100	195.3600	196.3900	198.1300	197.5400	198.7300	-0.5846
2	13:11:09	194.6000	194.7100	194.9500	195.9000	197.1200	196.6500	197.4200	1.0477
3	13:11:45	196.9800	192.2100	192.1200	194.8700	195.0100	193.8400	196.8500	0.0196
4	13:12:22	196.0200	192.2700	191.8400	196.4500	196.7900	194.6900	196.7700	0.4178
5	13:12:59	193.7600	192.7500	194.8400	194.9600	196.0600	193.0500	199.3100	0.6487
x		195.7500	193.4100	193.8200	195.7200	196.6200	195.1500	197.8200	0.3098
%RSD		0.7866	0.7196	0.8744	0.3874	0.5951	0.9687	0.5786	201.2500

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:10:32	91.95%	194.0200	0.3751	193.9800	198.1600	196.5800	91.96%	0.0000
2	13:11:09	95.18%	193.6300	-0.4146	193.6900	199.2200	197.5000	94.86%	0.0000
3	13:11:45	96.72%	192.8900	1.6939	192.9800	197.0500	195.9000	96.95%	0.0000
4	13:12:22	96.21%	193.7200	0.7654	193.8700	198.4200	196.1800	97.39%	0.0000
5	13:12:59	96.69%	192.5200	2.0753	192.1900	196.2000	195.8500	98.36%	0.0000
x		95.35%	193.3600	0.8990	193.3400	197.8100	196.4000	95.90%	0.0000
%RSD		2.10	0.3231	111.7000	0.3890	0.6009	0.3466	2.66	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:10:32	192.9400	197.1400	196.9000	89.08%	193.7200	189.0300	193.2800	194.9200
2	13:11:09	196.2800	198.8400	196.2600	92.77%	194.4500	189.1500	194.9400	195.0700
3	13:11:45	197.1600	196.7700	195.3700	95.08%	194.3900	189.9000	195.4700	196.0500
4	13:12:22	196.7700	196.9300	197.2200	95.86%	193.5300	189.8500	192.9700	194.9200
5	13:12:59	195.3700	195.4600	195.3000	96.76%	195.6600	190.6100	196.7900	196.1900
x		195.7000	197.0300	196.2100	93.91%	194.3500	189.7100	194.6900	195.4300
%RSD		0.8605	0.6127	0.4436	3.28	0.4291	0.3374	0.8125	0.3252

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:10:32	193.0200	90.89%	0.0000
2	13:11:09	193.2800	95.64%	0.6186
3	13:11:45	194.6400	98.29%	0.0000
4	13:12:22	192.4400	99.60%	0.0000
5	13:12:59	194.9900	99.36%	0.0000
x		193.6700	96.76%	0.1237
%RSD		0.5635	3.76	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:16:27	95.56%	502.3600	489.3100	496.5300	506.2100	499.6700	500.0400	89.60%
2	13:17:03	95.79%	503.8600	498.6600	501.5900	512.5100	503.4300	513.0800	90.52%
3	13:17:40	97.04%	501.6700	501.6000	503.5800	508.4100	503.6800	518.2200	92.11%
4	13:18:17	97.86%	498.6200	497.4500	503.0900	515.7000	499.1200	513.7400	91.88%
5	13:18:53	96.89%	498.2900	505.1900	514.9400	513.5100	499.2500	519.7300	91.81%
x		96.63%	500.9600	498.4400	503.9500	511.2700	501.0300	512.9600	91.19%
%RSD		0.98	0.4837	1.1865	1.3395	0.7570	0.4624	1.5137	1.19

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:16:27	0.0530	T 492.8800	502.6500	ID 30.1200	501.5400	513.0600	521.0900	508.0200
2	13:17:03	0.0691	T 498.5600	502.7000	ID 30.5160	500.5300	516.1700	514.9500	509.9000
3	13:17:40	0.0530	512.6300	504.8400	ID 30.5880	504.2500	516.7600	510.1700	505.5800
4	13:18:17	0.0455	T 496.5600	501.2700	ID 30.8160	506.3000	524.2900	514.9300	T 490.4100
5	13:18:53	0.0409	511.7700	503.3300	ID 30.6330	505.2400	521.8300	492.6500	505.5900
x		0.0523	T 502.4800	502.9600	ID 30.5350	503.5700	518.4200	510.7600	T 503.9000
%RSD		20.5270	T 1.8128	0.2572	ID 0.8409	0.4873	0.8770	2.1222	T 1.5392

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:16:27	504.3000	504.7500	506.5000	499.7600	505.2100	506.4100	504.4600	1.5003
2	13:17:03	502.0900	506.9000	502.4200	499.7400	504.4900	505.2200	508.4100	0.7057
3	13:17:40	500.5200	501.1400	499.5900	502.9600	501.7900	499.8400	500.7900	0.8352
4	13:18:17	502.2600	498.6500	502.2500	503.5900	499.0500	501.1600	498.4600	1.0484
5	13:18:53	500.5100	503.2800	502.8400	503.3800	497.0300	497.6700	492.9100	0.8106
x		501.9400	502.9400	502.7200	501.8900	501.5100	502.0600	501.0000	0.9800
%RSD		0.3111	0.6340	0.4914	0.3912	0.6965	0.7312	1.1760	32.2780

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:16:27	88.05%	502.9500	1.9567	503.8000	499.5100	500.6000	87.33%	0.0000
2	13:17:03	90.17%	503.3800	-2.8525	501.3400	503.6100	501.8900	89.86%	0.0000
3	13:17:40	91.55%	501.9500	4.1606	504.1700	499.8400	502.4200	91.56%	0.0000
4	13:18:17	91.30%	504.9600	1.3905	502.5300	502.3700	501.1600	92.27%	0.0000
5	13:18:53	92.15%	501.6800	0.3284	503.1500	500.0700	502.3400	92.62%	0.0000
x		90.65%	502.9900	0.9967	503.0000	501.0800	501.6800	90.73%	0.0000
%RSD		1.78	0.2593	257.5100	0.2226	0.3609	0.1563	2.40	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:16:27	495.6100	501.4600	505.2900	83.84%	503.9300	501.7200	501.9100	500.3800
2	13:17:03	502.1200	500.4000	502.6400	86.73%	499.6000	503.6100	504.4600	503.2600
3	13:17:40	504.0500	500.1100	501.8100	89.25%	501.8000	505.1600	502.4200	502.8900
4	13:18:17	503.6100	504.7700	498.6200	90.37%	504.0300	504.1400	501.0500	500.1200
5	13:18:53	504.6400	500.0500	500.2300	91.10%	503.4700	508.5100	502.3000	503.7700
x		502.0100	501.3600	501.7200	88.26%	502.5600	504.6300	502.4300	502.0800
%RSD		0.7360	0.3972	0.5026	3.37	0.3745	0.4965	0.2498	0.3398

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:16:27	500.4900	85.83%	0.0000
2	13:17:03	504.6400	89.42%	0.0000
3	13:17:40	503.0100	91.57%	0.0000
4	13:18:17	501.9800	92.56%	0.0000
5	13:18:53	504.2800	93.33%	0.6339
x		502.8800	90.54%	0.1268
%RSD		0.3389	3.33	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:22:21	94.34%	979.9600	980.1400	989.8000	999.0300	T 953.7300	1015.4000	87.28%
2	13:22:58	95.29%	979.4700	992.4700	1004.9000	998.6100	T 947.7500	1018.0000	89.83%
3	13:23:35	95.79%	975.9600	1009.7000	1001.4000	1019.4000	T 947.2000	1009.2000	90.10%
4	13:24:12	96.02%	968.0900	1014.7000	1005.0000	1018.8000	T 942.0300	1030.1000	90.93%
5	13:24:48	96.59%	964.8000	1018.0000	1014.6000	1026.3000	T 945.1800	1026.7000	91.46%
x		95.61%	973.6600	1003.0000	1003.1000	1012.4000	T 947.1800	1019.9000	89.92%
%RSD		0.89	0.7048	1.6093	0.8904	1.2602	T 0.4532	0.8331	1.79

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:22:21	0.0803	T 960.2900	T 965.4500	ID 60.6470	T 949.4100	1038.6000	1002.1000	T 964.8300
2	13:22:58	0.0860	T 962.4400	T 957.1300	ID 60.4870	T 947.2600	1035.5000	991.6900	T 950.9600
3	13:23:35	0.0490	T 956.6600	T 953.7400	ID 60.0700	T 947.6400	1041.0000	1008.0000	T 946.6000
4	13:24:12	0.0418	T 950.7500	T 951.1000	ID 61.3920	T 950.7800	1040.3000	989.3100	T 944.5700
5	13:24:48	0.0240	T 951.1900	T 948.1500	ID 60.6630	T 941.8900	1040.8000	968.3300	T 949.7900
x		0.0562	T 956.2700	T 955.1200	ID 60.6520	T 947.4000	1039.2000	991.8800	T 951.3500
%RSD		46.7380	T 0.5501	T 0.6972	ID 0.7879	T 0.3575	0.2191	1.5322	T 0.8358

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:22:21	1006.4000	T 990.2300	997.4300	991.0000	989.1100	990.8100	981.3900	1.5554
2	13:22:58	992.7000	1008.3000	983.7400	982.3400	983.1900	979.0000	972.3400	1.2098
3	13:23:35	995.1100	T 983.8000	987.0200	981.2300	977.2500	964.5200	957.8400	2.4666
4	13:24:12	988.2600	T 977.0600	987.0900	986.7600	976.7200	968.0500	965.8400	1.0941
5	13:24:48	987.1600	999.5500	976.5200	979.5900	971.9800	959.1600	962.1500	2.2490
x		993.9300	T 991.7800	986.3600	984.1800	979.6500	972.3100	967.9100	1.7150
%RSD		0.7737	T 1.2503	0.7641	0.4719	0.6756	1.2998	0.9527	35.9010

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:22:21	87.38%	T 974.2100	0.6711	M 1023.7000	990.6100	999.0100	87.72%	0.0000
2	13:22:58	89.67%	M 1032.5000	3.4463	M 1025.5000	997.5300	1010.5000	90.18%	0.0000
3	13:23:35	91.35%	T 970.9000	0.9719	T 969.6200	989.7000	1003.5000	92.34%	0.0000
4	13:24:12	91.90%	T 968.9300	-0.6143	T 968.2800	988.5900	1002.5000	93.27%	0.0000
5	13:24:48	92.57%	T 974.3300	1.9772	T 973.7000	992.2100	1004.3000	93.64%	0.0000
x		90.58%	TM 984.1700	1.2904	TM 992.1600	991.7300	1004.0000	91.43%	0.0000
%RSD		2.30	TM 2.7534	117.7300	TM 2.9928	0.3532	0.4161	2.70	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:22:21	M 1001.4000	994.9900	1001.4000	85.00%	1024.5000	T 955.3800	T 1009.2000	1008.8000
2	13:22:58	M 1020.9000	993.1100	1000.8000	89.04%	1028.9000	T 956.8000	T 1003.1000	1014.6000
3	13:23:35	M 1014.3000	987.6500	986.7600	91.59%	1021.2000	T 954.9200	T 1005.7000	1011.9000
4	13:24:12	M 1024.9000	982.7500	990.6500	93.16%	1028.4000	T 955.4300	T 1002.7000	1018.4000
5	13:24:48	M 1030.1000	985.2000	995.9700	94.04%	1020.5000	T 944.3000	T 993.2800	1003.1000
x		M 1018.3000	988.7400	995.1200	90.57%	1024.7000	T 953.3700	T 1002.8000	1011.4000
%RSD		M 1.0880	0.5250	0.6401	4.02	0.3828	T 0.5363	T 0.5914	0.5763

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:22:21	T 985.1700	87.48%	0.0000
2	13:22:58	T 983.9500	91.93%	0.0000
3	13:23:35	T 983.9400	94.73%	0.0000
4	13:24:12	T 984.8200	96.45%	0.0000
5	13:24:48	T 977.0800	98.51%	0.6006
x		T 982.9900	93.82%	0.1201
%RSD		T 0.3407	4.57	223.6100

S1500 07/10/2008 13:27:41

User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:28:17	96.67%	0.0935	1470.6000	1478.9000	1463.4000	0.6528	1507.2000	89.30%
2	13:28:54	97.91%	0.1968	1484.7000	1496.7000	1474.4000	0.7722	1504.1000	91.20%
3	13:29:31	99.22%	0.4324	1498.7000	1495.5000	1496.5000	1.1209	1505.3000	93.44%
4	13:30:08	99.20%	0.4475	1518.7000	1523.8000	1507.5000	1.3245	1520.7000	94.24%
5	13:30:45	99.09%	0.4753	1516.2000	1511.3000	1523.3000	1.0893	1508.7000	95.58%
x		98.42%	0.3291	1497.8000	1501.2000	1493.0000	0.9919	1509.2000	92.75%
%RSD		1.14	52.4260	1.3716	1.1351	1.6271	27.6100	0.4419	2.69

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:28:17	0.0373	0.0669	0.2113	ID 62.2920	0.1061	1580.0000	1513.7000	0.1037
2	13:28:54	0.0541	0.0429	0.2336	ID 62.8960	0.2671	1589.3000	1494.6000	0.2112
3	13:29:31	0.0392	0.3679	0.5095	ID 62.8140	0.4931	T 1492.7000	1514.3000	0.4569
4	13:30:08	0.0338	0.4270	0.4732	ID 62.2810	0.5196	T 1488.3000	1518.6000	0.4663
5	13:30:45	0.0461	0.3208	0.5021	ID 63.0290	0.4397	T 1486.5000	1503.7000	0.4663
x		0.0421	0.2451	0.3859	ID 62.6620	0.3651	T 1527.4000	1509.0000	0.3409
%RSD		19.1190	72.5700	38.8840	ID 0.5608	47.9370	T 3.4342	0.6434	50.3800

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:28:17	0.1487	0.3209	0.3550	0.6118	0.1016	-0.3309	0.0214	0.5518
2	13:28:54	0.2593	0.4568	0.5252	0.7137	0.1046	-0.0884	-0.3443	1.3733
3	13:29:31	0.5056	0.6559	0.6575	1.1297	0.4807	0.5625	0.2345	0.1892
4	13:30:08	0.5767	0.7032	0.7149	1.0575	0.4658	0.4720	0.2779	0.1503
5	13:30:45	0.5639	0.5930	0.6120	1.1084	0.4935	0.1195	0.4149	0.3099
x		0.4108	0.5460	0.5729	0.9242	0.3293	0.1469	0.1209	0.5149
%RSD		47.3900	28.6190	24.4650	26.2750	62.7780	255.2600	244.8400	98.0440

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:28:17	87.63%	0.2906	-1.6452	0.2952	0.0696	0.0686	87.91%	0.0000
2	13:28:54	90.26%	0.2913	-0.8414	0.2897	0.2116	0.2237	90.73%	0.0000
3	13:29:31	92.53%	0.3340	-0.3758	0.3432	0.4138	0.4547	93.06%	0.0000
4	13:30:08	93.44%	0.3366	0.0870	0.3412	0.5130	0.4829	93.19%	0.0000
5	13:30:45	94.16%	0.3282	0.3799	0.3182	0.4193	0.3980	94.79%	0.0000
x		91.60%	0.3161	-0.4791	0.3175	0.3255	0.3256	91.94%	0.0000
%RSD		2.91	7.3376	166.9800	7.8684	55.4420	53.8680	2.91	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:28:17	1.5895	0.0812	0.1550	84.40%	0.1216	0.1113	0.1392	0.1131
2	13:28:54	1.8805	0.2379	0.2878	87.89%	0.3107	0.2813	0.2783	0.2934
3	13:29:31	1.9548	0.6026	0.4639	90.78%	0.6795	0.6926	0.5527	0.5799
4	13:30:08	1.8753	0.5838	0.4671	92.39%	0.6031	0.5793	0.6030	0.5373
5	13:30:45	1.7848	0.5043	0.5149	92.75%	0.5359	0.5062	0.5199	0.4933
x		1.8170	0.4020	0.3777	89.64%	0.4502	0.4342	0.4186	0.4034
%RSD		7.7441	57.4850	40.1330	3.91	50.9860	54.0920	47.7770	48.5720

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:28:17	0.1302	86.52%	0.0000
2	13:28:54	0.2746	90.61%	0.0000
3	13:29:31	0.5550	92.96%	0.0000
4	13:30:08	0.5603	94.49%	0.0000
5	13:30:45	0.4817	95.41%	0.0000
x		0.4004	92.00%	0.0000
%RSD		47.5350	3.87	0.0000

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:34:14	98.70%	0.0546	T 1919.7000	1933.6000	1931.9000	1.2824	1953.0000	91.95%
2	13:34:51	99.26%	0.1308	2015.6000	1985.3000	1971.3000	1.4265	1960.0000	93.96%
3	13:35:27	100.06%	0.2857	T 1982.5000	2005.7000	2002.4000	1.5891	1988.4000	95.41%
4	13:36:04	100.85%	0.2339	T 2016.7000	2035.6000	2045.6000	1.5278	1995.8000	96.05%
5	13:36:41	101.72%	0.2437	2066.9000	2019.8000	2026.7000	1.4784	1998.3000	97.98%
x		100.12%	0.1897	T 2000.3000	1996.0000	1995.6000	1.4608	1979.1000	95.07%
%RSD		1.21	49.8760	T 2.7098	1.9785	2.2640	7.9728	1.0664	2.38

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:34:14	0.0502	0.0305	0.1938	ID 82.0750	0.1133	T 1924.9000	2008.0000	0.0943
2	13:34:51	0.0494	0.0569	0.2747	ID 82.6670	0.1730	T 1946.8000	1983.8000	0.1744
3	13:35:27	0.0417	0.2375	0.3674	ID 84.3190	0.3364	T 1965.2000	2001.8000	0.3289
4	13:36:04	0.0410	0.1658	0.3590	ID 84.0020	0.3139	T 1970.0000	1984.8000	0.2611
5	13:36:41	0.0362	0.2395	0.3891	ID 83.5170	0.2892	T 1967.7000	1995.5000	0.2732
x		0.0437	0.1460	0.3168	ID 83.3160	0.2452	T 1954.9000	1994.8000	0.2264
%RSD		13.6050	67.4270	25.6750	ID 1.1192	39.5400	T 0.9792	0.5291	40.7660

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:34:14	0.1625	0.2937	0.3125	0.9430	0.6633	0.3714	0.2647	-0.3562
2	13:34:51	0.2491	0.3504	0.3704	1.0985	0.6540	0.0933	0.1878	-0.0615
3	13:35:27	0.3941	0.5094	0.4909	1.2367	0.7860	0.1746	0.3828	-0.2793
4	13:36:04	0.3616	0.4124	0.4709	1.2303	0.6506	0.7417	-0.0573	1.1368
5	13:36:41	0.3412	0.3816	0.4747	1.0710	0.7315	0.3380	0.3834	-0.4366
x		0.3017	0.3895	0.4239	1.1159	0.6971	0.3438	0.2323	0.0007
%RSD		31.3690	20.5700	18.4790	10.9650	8.5620	72.7870	78.3080	97123.0000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:34:14	89.32%	0.3926	-1.6885	0.4019	0.0780	0.0558	88.92%	0.0000
2	13:34:51	92.09%	0.4080	-1.6961	0.4030	0.1538	0.1398	92.33%	0.0000
3	13:35:27	94.38%	0.4069	-0.6445	0.4277	0.3082	0.2929	93.81%	0.0000
4	13:36:04	95.81%	0.4388	0.0163	0.4274	0.2860	0.2481	96.13%	0.0000
5	13:36:41	96.90%	0.4109	-0.0548	0.4065	0.3070	0.2596	97.75%	0.0000
x		93.70%	0.4114	-0.8135	0.4133	0.2266	0.1992	93.79%	0.0000
%RSD		3.24	4.0944	103.5300	3.1768	46.2980	49.4970	3.65	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:34:14	4.1208	0.1883	0.1134	84.25%	0.2177	0.2060	0.9108	0.9373
2	13:34:51	4.1790	0.2276	0.2487	88.77%	0.3341	0.3377	1.0365	0.9933
3	13:35:27	4.2668	0.3638	0.3361	T 94.67%	0.5737	0.5442	1.2044	1.1568
4	13:36:04	4.2233	0.2035	0.2295	93.72%	0.4623	0.4217	1.1054	1.1060
5	13:36:41	4.3570	0.3147	0.3305	95.99%	0.4016	0.3698	1.1264	1.1116
x		4.2294	0.2596	0.2517	T 91.48%	0.3979	0.3759	1.0767	1.0610
%RSD		2.1164	29.3130	36.0710	T 5.33	33.6310	32.7950	10.2540	8.6447

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:34:14	0.9349	86.22%	0.0000
2	13:34:51	1.0099	91.42%	0.0000
3	13:35:27	1.2082	94.18%	0.6281
4	13:36:04	1.1005	96.33%	0.0000
5	13:36:41	1.1151	98.88%	0.0000
x		1.0737	93.41%	0.1256
%RSD		9.7532	5.21	223.6100

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:40:10	97.56%	98.3370	1222.5000	1211.0000	1213.5000	502.4300	2036.6000	92.35%
2	13:40:47	97.07%	99.1890	1246.9000	1245.0000	1239.6000	510.8100	2050.1000	93.65%
3	13:41:23	98.19%	98.2930	1244.2000	1235.7000	1250.8000	506.7900	2038.4000	94.55%
4	13:42:00	98.87%	97.8280	1248.9000	1242.4000	1239.7000	507.4700	2051.8000	94.15%
5	13:42:37	97.55%	99.0810	1252.8000	1249.8000	1248.4000	509.4800	2069.9000	94.15%
x		97.85%	98.5460	1243.0000	1236.8000	1238.4000	507.3900	2049.4000	93.77%
%RSD		0.71	0.5832	0.9575	1.2344	1.1953	0.6314	0.6520	0.91

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:40:10	0.0759	96.4220	94.4470	ID 43.7110	94.2800	1047.3000	1016.8000	93.9780
2	13:40:47	0.0680	95.7110	94.0850	ID 43.5740	94.2460	1059.6000	1029.1000	94.6220
3	13:41:23	0.0471	96.3310	94.0390	ID 44.1400	94.3890	1061.2000	1038.8000	94.6330
4	13:42:00	0.0142	96.1170	95.0760	ID 44.7510	94.9220	1069.6000	1019.6000	95.0220
5	13:42:37	0.0203	96.2530	95.1070	ID 44.6670	94.8320	1074.0000	1054.5000	96.4570
x		0.0451	96.1670	94.5510	ID 44.1690	94.5340	1062.3000	1031.8000	94.9420
%RSD		61.2400	0.2895	0.5480	ID 1.2147	0.3380	0.9693	1.4911	0.9751

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:40:10	96.2120	96.5080	96.4660	202.8100	196.5600	205.2800	206.4700	0.1029
2	13:40:47	96.6220	96.4840	96.8980	203.8200	196.4100	206.1200	206.4700	0.0270
3	13:41:23	96.9970	95.6010	96.6530	202.9100	195.7400	201.1200	204.2500	-0.2782
4	13:42:00	96.8160	97.7890	96.6520	203.2100	196.3700	204.3700	204.1000	-0.0640
5	13:42:37	97.5620	97.3370	96.8550	201.7100	195.6000	204.7000	206.9300	0.2714
x		96.8420	96.7440	96.7050	202.8900	196.1400	204.3200	205.6400	0.0118
%RSD		0.5136	0.8762	0.1809	0.3786	0.2201	0.9332	0.6592	1719.4000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:40:10	91.48%	95.1480	-0.0517	94.7310	97.9040	97.1130	91.44%	0.0000
2	13:40:47	93.32%	94.8240	-0.7335	95.0720	99.0510	97.5890	93.42%	0.0000
3	13:41:23	94.48%	95.5020	0.1272	95.1370	98.8060	99.0420	93.95%	0.0000
4	13:42:00	93.96%	95.2520	-0.8975	94.8810	99.3790	98.3220	94.32%	0.0000
5	13:42:37	93.70%	95.6580	-1.1106	95.1340	98.7760	97.6920	94.47%	0.0000
x		93.39%	95.2770	-0.5332	94.9910	98.7830	97.9520	93.52%	0.0000
%RSD		1.23	0.3396	101.6100	0.1883	0.5544	0.7620	1.32	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:40:10	195.2100	100.0900	98.7260	88.76%	202.2100	196.2400	190.8000	201.5900
2	13:40:47	196.1600	96.8230	98.4230	92.25%	201.7300	196.8800	191.9100	201.7300
3	13:41:23	199.5500	98.7150	98.8630	94.17%	201.1200	196.6100	191.5700	202.3400
4	13:42:00	198.1400	96.7560	98.7240	94.18%	202.0600	196.8300	190.9300	202.7100
5	13:42:37	198.7800	97.9110	97.9710	93.40%	203.1300	197.5700	191.2200	201.3800
x		197.5700	98.0600	98.5410	92.55%	202.0500	196.8300	191.2900	201.9500
%RSD		0.9217	1.4257	0.3624	2.44	0.3628	0.2479	0.2395	0.2756

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:40:10	195.3400	90.98%	0.6503
2	13:40:47	195.9600	94.80%	0.0000
3	13:41:23	195.5200	96.47%	0.0000
4	13:42:00	195.8000	97.08%	0.0000
5	13:42:37	195.3200	96.45%	0.0000
x		195.5900	95.16%	0.1301
%RSD		0.1462	2.61	223.6100

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:46:07	97.58%	0.0043	0.0352	-0.0470	0.0969	0.1890	4.4555	91.09%
2	13:46:44	99.01%	0.0529	0.5673	0.4209	0.5787	0.3040	3.5159	93.42%
3	13:47:21	99.38%	0.1598	1.9215	1.6379	2.1553	0.5039	7.3454	94.43%
4	13:47:58	99.27%	0.0971	1.0702	1.1607	1.2539	0.4169	5.7123	95.43%
5	13:48:35	100.71%	0.1725	1.3629	0.8684	1.3592	0.5061	5.5026	95.86%
x		99.19%	0.0973	0.9914	0.8082	1.0888	0.3840	5.3064	94.05%
%RSD		1.12	72.9820	73.1460	80.6140	72.3440	35.6090	27.1320	2.02

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:46:07	0.0669	-0.0063	0.0217	ID -0.3506	0.0051	2.8935	8.1240	-0.0009
2	13:46:44	0.0439	0.0588	0.0599	ID -0.3558	0.0515	2.9530	4.7282	0.0549
3	13:47:21	0.0413	0.1222	0.1140	ID -0.2193	0.1364	1.5594	6.8604	0.1486
4	13:47:58	0.0432	0.0924	0.1112	ID -0.3386	0.1109	0.1471	-2.3291	0.1110
5	13:48:35	0.0219	0.1257	0.1219	ID -0.2631	0.1469	0.9724	1.5472	0.1197
x		0.0434	0.0786	0.0857	ID -0.3055	0.0902	1.7051	3.7861	0.0867
%RSD		36.7830	69.5020	50.6010	ID 19.9710	66.8110	71.5600	111.7200	68.7550

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:46:07	0.0063	0.0681	0.0909	0.9551	-0.0749	0.3971	-0.3306	0.1698
2	13:46:44	0.0559	0.1092	0.1323	1.1054	0.0625	0.2101	-0.0670	-0.4186
3	13:47:21	0.2012	0.2471	0.2014	1.2328	0.1886	0.0105	0.0430	-0.0734
4	13:47:58	0.1233	0.2004	0.1737	1.1222	0.0839	0.4431	-0.2276	0.8929
5	13:48:35	0.1310	0.2378	0.2108	1.1859	0.1622	0.1847	0.0683	-0.6895
x		0.1035	0.1725	0.1618	1.1203	0.0845	0.2491	-0.1028	-0.0238
%RSD		72.2930	46.2860	30.9240	9.4125	122.4300	70.1420	168.0500	2559.1000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:46:07	88.21%	0.0186	-0.6455	0.0164	0.0081	0.0034	88.00%	0.0000
2	13:46:44	90.95%	0.0202	-1.2552	0.0234	0.0402	0.0564	89.72%	0.0000
3	13:47:21	92.35%	0.0583	-1.2791	0.0520	0.1539	0.1511	92.25%	0.0000
4	13:47:58	94.18%	0.0502	-0.0909	0.0448	0.1272	0.1158	93.54%	0.0000
5	13:48:35	95.07%	0.0493	-0.0628	0.0423	0.1341	0.1458	95.07%	0.0000
x		92.15%	0.0393	-0.6667	0.0358	0.0927	0.0945	91.72%	0.0000
%RSD		2.95	47.1450	89.3020	42.2420	69.3840	66.9910	3.12	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:46:07	0.4795	0.0020	0.0074	83.12%	0.0040	0.0098	0.0168	0.0146
2	13:46:44	0.6104	0.0722	0.0674	86.19%	0.1073	0.0959	0.0899	0.0721
3	13:47:21	0.6877	0.1659	0.1590	88.79%	0.2951	0.3051	0.2352	0.2227
4	13:47:58	0.6180	0.0754	0.1181	90.17%	0.1799	0.1679	0.1604	0.1681
5	13:48:35	0.5811	0.1400	0.1647	92.32%	0.1614	0.1463	0.1751	0.1813
x		0.5953	0.0911	0.1033	88.12%	0.1496	0.1450	0.1355	0.1318
%RSD		12.7030	70.5250	64.1470	4.05	71.0900	74.6380	62.0890	65.0200

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:46:07	0.0128	84.74%	0.0000
2	13:46:44	0.0807	88.11%	0.0000
3	13:47:21	0.2333	90.72%	0.0000
4	13:47:58	0.1529	92.71%	0.0000
5	13:48:35	0.1800	94.76%	0.0000
x		0.1319	90.21%	0.0000
%RSD		65.4790	4.35	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:52:04	99.12%	1.0090	-0.0259	-0.0070	-0.1587	0.2832	1.1749	94.22%
2	13:52:41	100.60%	0.9942	0.0137	-0.0140	-0.1631	0.2282	3.6888	96.92%
3	13:53:17	101.33%	1.0246	0.3636	-0.1085	0.4263	0.2860	1.6631	98.15%
4	13:53:54	101.79%	1.0329	0.4094	0.2069	0.4201	0.3381	2.9258	99.24%
5	13:54:31	102.95%	1.0371	0.2943	0.1560	0.3725	0.3049	2.6099	100.39%
x		101.16%	1.0196	0.2110	0.0467	0.1794	0.2881	2.4125	97.78%
%RSD		1.41	1.7467	96.1480	280.0000	173.5400	13.8830	41.5790	2.43

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:52:04	0.0643	4.7068	1.8926	ID -0.1560	0.9233	3.1533	2.6067	0.8731
2	13:52:41	0.0608	4.6696	1.8876	ID -0.2502	0.9194	2.6399	-1.8082	0.9334
3	13:53:17	0.0434	4.6416	1.8919	ID -0.2755	0.9178	1.6067	-0.4931	0.9618
4	13:53:54	0.0523	4.6227	1.8623	ID -0.2024	0.9759	-1.1230	-1.7825	0.9525
5	13:54:31	0.0481	4.6114	1.9146	ID -0.1653	0.9646	-1.1778	-6.6335	0.9517
x		0.0538	4.6504	1.8898	ID -0.2099	0.9402	1.0198	-1.6221	0.9345
%RSD		16.1930	0.8262	0.9855	ID 24.8440	2.9556	201.8100	205.2300	3.8326

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:52:04	0.9915	2.0714	1.8904	2.4369	1.0166	4.8007	4.8295	0.1499
2	13:52:41	1.0325	1.8408	1.9202	2.3942	1.1851	5.1503	5.5897	-0.6477
3	13:53:17	0.9690	1.9141	1.9454	2.3625	0.7912	4.4801	4.6342	0.3195
4	13:53:54	0.9929	2.0431	2.0502	2.6164	1.0127	4.9071	4.9836	-0.5696
5	13:54:31	0.9937	1.9097	2.0203	2.3165	0.8815	4.9659	4.8190	0.8998
x		0.9959	1.9558	1.9653	2.4253	0.9774	4.8608	4.9712	0.0304
%RSD		2.2997	4.9866	3.4385	4.7637	15.3270	5.0969	7.3875	2130.3000

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:52:04	91.71%	0.9373	-0.7951	0.9436	0.9740	0.9757	92.19%	0.0000
2	13:52:41	95.66%	0.9215	-0.4736	0.9309	0.9779	0.9731	95.56%	0.0000
3	13:53:17	96.86%	0.9523	0.4774	0.9444	0.9842	1.0698	97.36%	0.0000
4	13:53:54	99.06%	0.9813	0.3586	0.9628	1.0338	1.0693	99.24%	0.0000
5	13:54:31	100.61%	0.9487	-0.2992	0.9452	0.9652	1.0366	100.69%	0.0000
x		96.78%	0.9482	-0.1464	0.9454	0.9870	1.0249	97.01%	0.0000
%RSD		3.54	2.3260	373.4300	1.2025	2.7418	4.6873	3.42	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:52:04	2.0242	9.9392	9.3950	88.03%	0.9704	0.9059	0.9431	0.9854
2	13:52:41	2.0818	10.1030	9.5856	92.89%	0.9270	0.9008	0.9871	1.0394
3	13:53:17	2.0838	9.5555	9.5643	T 98.28%	0.9922	0.9268	0.9817	0.9910
4	13:53:54	2.0672	9.4188	9.5006	T 99.86%	0.9970	0.9574	0.9734	0.9522
5	13:54:31	2.1910	9.6415	9.4159	T 102.01%	0.9459	0.9412	0.9770	1.0137
x		2.0896	9.7315	9.4923	T 96.21%	0.9665	0.9264	0.9725	0.9963
%RSD		2.9462	2.8970	0.9011	T 5.91	3.1010	2.5630	1.7701	3.2726

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:52:04	0.9290	89.89%	0.0000
2	13:52:41	0.9565	94.82%	0.0000
3	13:53:17	0.9568	98.25%	0.0000
4	13:53:54	0.9705	100.53%	0.0000
5	13:54:31	0.9798	102.26%	0.0000
x		0.9585	97.15%	0.0000
%RSD		2.0026	5.06	0.0000

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:57:58	87.24%	0.2542	TM 96455.0000	TM 95284.0000	TM 95945.0000	TM 92816.0000	TM 110270.0000	79.12%
2	13:58:35	87.36%	0.2706	TM 99049.0000	TM 97910.0000	TM 98914.0000	TM 94020.0000	TM 111700.0000	81.51%
3	13:59:11	88.35%	0.2704	TM 100670.0000	TM 99734.0000	TM 100520.0000	TM 94156.0000	TM 113090.0000	82.68%
4	13:59:48	88.70%	0.2206	TM 101290.0000	TM 100960.0000	TM 100830.0000	TM 94096.0000	TM 113540.0000	83.95%
5	14:00:25	89.98%	0.2618	TM 100480.0000	TM 99718.0000	TM 100130.0000	TM 93183.0000	TM 113030.0000	85.16%
x		88.33%	0.2556	TM 99590.0000	TM 98722.0000	TM 99267.0000	TM 93654.0000	TM 112320.0000	82.48%
%RSD		1.26	8.0885	TM 1.9441	TM 2.2378	TM 2.0087	TM 0.6549	TM 1.1932	2.82

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:57:58	296.5100	0.2854	19.5130	ITD 4454.7000	7.5149	TM 101240.0000	TM 111840.0000	1.3905
2	13:58:35	294.0800	0.4792	19.1440	ITD 4475.7000	7.4570	TM 102750.0000	TM 111420.0000	1.3911
3	13:59:11	291.2100	0.2263	19.2810	ITD 4527.2000	7.4773	TM 103470.0000	TM 111880.0000	1.4232
4	13:59:48	291.3900	-0.0123	19.5540	ITD 4542.0000	7.4637	TM 103190.0000	TM 112130.0000	1.3627
5	14:00:25	291.3600	0.1398	19.3020	ITD 4513.1000	7.4644	TM 102730.0000	TM 111980.0000	1.3960
x		292.9100	0.2237	19.3590	ITD 4502.5000	7.4755	TM 102680.0000	TM 111850.0000	1.3927
%RSD		0.7996	81.1630	0.8855	ITD 0.8075	0.3109	TM 0.8386	TM 0.2380	1.5431

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:57:58	7.6152	7.8863	9.3349	11.8100	-0.2814	1.7885	-3.4583	14.5930
2	13:58:35	7.5900	7.8899	8.6919	11.5120	-0.0873	1.4568	-3.0765	14.3980
3	13:59:11	6.9408	7.9080	8.6255	12.1320	-0.2928	1.4633	-3.0724	13.1010
4	13:59:48	7.1908	7.6871	8.6611	11.4780	-0.4070	1.5961	-3.3328	14.9160
5	14:00:25	7.0944	7.7039	8.8940	11.6490	-0.2018	1.5707	-3.0616	12.9460
x		7.2862	7.8151	8.8415	11.7160	-0.2541	1.5751	-3.2003	13.9910
%RSD		4.1503	1.4026	3.3348	2.2762	46.6390	8.5472	5.7411	6.4617

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:57:58	74.77%	0.0397	13.7700	0.0619	3.5663	1.3261	79.53%	0.0000
2	13:58:35	77.63%	0.0390	14.0740	0.0569	3.4319	1.0874	83.16%	0.0000
3	13:59:11	79.35%	0.0293	15.4710	0.0559	3.4003	1.0751	85.23%	0.0000
4	13:59:48	80.76%	0.0315	14.5590	0.0405	3.3772	1.0226	86.69%	0.0000
5	14:00:25	81.08%	0.0343	13.9350	0.0492	3.2385	0.9915	87.01%	0.0000
x		78.72%	0.0348	14.3620	0.0529	3.4028	1.1005	84.32%	0.0000
%RSD		3.30	13.0260	4.7780	15.6410	3.4525	11.9900	3.65	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	13:57:58	1.2511	1.3785	1.4696	74.88%	-0.0174	-0.0170	4.5160	4.4856
2	13:58:35	1.2346	1.4838	1.2535	78.64%	-0.0150	-0.0185	4.5355	4.3787
3	13:59:11	1.2153	1.4129	1.4352	81.16%	-0.0224	-0.0181	4.4083	4.1640
4	13:59:48	1.2546	1.6685	1.4382	83.25%	-0.0201	-0.0222	4.2695	4.3448
5	14:00:25	1.3343	1.3696	1.3443	83.74%	-0.0177	-0.0234	4.5076	4.4045
x		1.2580	1.4626	1.3881	80.33%	-0.0185	-0.0198	4.4474	4.3555
%RSD		3.6082	8.4459	6.3838	4.55	15.1340	13.9510	2.4956	2.7323

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	13:57:58	4.3832	74.20%	0.0000
2	13:58:35	4.4077	77.88%	0.0000
3	13:59:11	4.2670	80.95%	0.0000
4	13:59:48	4.2200	83.23%	0.0000
5	14:00:25	4.3208	83.05%	0.0000
x		4.3198	79.86%	0.0000
%RSD		1.8111	4.80	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:03:52	86.96%	19.0180	TM 96904.0000	TM 96133.0000	TM 96784.0000	TM 93098.0000	TM 110000.0000	81.12%
2	14:04:28	88.25%	18.7720	TM 98908.0000	TM 97551.0000	TM 98297.0000	TM 93311.0000	TM 111110.0000	82.71%
3	14:05:05	89.32%	18.7670	TM 100290.0000	TM 99160.0000	TM 99830.0000	TM 93390.0000	TM 111990.0000	84.67%
4	14:05:42	89.95%	18.6360	TM 101190.0000	TM 99907.0000	TM 100630.0000	TM 93255.0000	TM 111910.0000	86.03%
5	14:06:19	89.91%	18.8090	TM 102190.0000	TM 100410.0000	TM 101320.0000	TM 93032.0000	TM 113160.0000	86.19%
x		88.88%	18.8010	TM 99896.0000	TM 98633.0000	TM 99371.0000	TM 93217.0000	TM 111630.0000	84.14%
%RSD		1.43	0.7358	TM 2.0645	TM 1.7919	TM 1.8438	TM 0.1595	TM 1.0462	2.61

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:03:52	292.9800	20.0030	39.2430	ITD 4403.2000	26.8930	TM 100470.0000	TM 110330.0000	20.8810
2	14:04:28	290.4400	20.2400	38.8550	ITD 4463.7000	27.0750	TM 101940.0000	TM 110430.0000	20.6680
3	14:05:05	289.2700	20.1620	39.0650	ITD 4496.3000	26.9350	TM 102150.0000	TM 111010.0000	20.8700
4	14:05:42	289.0600	19.7030	38.4940	ITD 4493.0000	26.9190	TM 101960.0000	TM 110270.0000	20.3820
5	14:06:19	286.8500	19.8560	38.7130	ITD 4506.4000	26.7470	TM 103030.0000	TM 110720.0000	20.4850
x		289.7200	19.9930	38.8740	ITD 4472.5000	26.9140	TM 101910.0000	TM 110550.0000	20.6570
%RSD		0.7717	1.0977	0.7533	ITD 0.9360	0.4343	TM 0.9028	TM 0.2794	1.0848

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:03:52	26.4870	26.3470	27.1890	29.7450	19.3150	20.2800	16.2770	15.5000
2	14:04:28	27.1120	26.2020	27.1610	28.9120	19.0310	20.2570	14.8900	15.6250
3	14:05:05	26.9480	26.4890	27.2930	29.9990	18.8240	19.7270	15.0030	14.1320
4	14:05:42	26.2370	25.9400	27.0410	29.6810	18.5980	19.3700	15.5910	12.6110
5	14:06:19	26.2750	26.3940	27.0850	29.4170	18.3140	19.9570	14.5660	14.3810
x		26.6120	26.2750	27.1530	29.5510	18.8160	19.9180	15.2650	14.4500
%RSD		1.4944	0.8138	0.3594	1.3964	2.0509	1.9179	4.4297	8.4559

Run	Time	89Y	103Rh	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:03:52	76.58%	17.6240	12.5830	17.4800	21.7640	19.2880	80.72%	0.0000
2	14:04:28	79.00%	17.4930	14.1930	17.3890	22.1070	19.2800	83.87%	0.0000
3	14:05:05	80.82%	17.5540	13.9710	17.3950	21.4400	18.9440	86.44%	0.0000
4	14:05:42	82.42%	17.2470	13.3090	17.4750	21.7570	19.1340	87.91%	0.0000
5	14:06:19	83.16%	17.4800	14.7810	17.3840	21.4140	18.9630	88.98%	0.0000
x		80.40%	17.4800	13.7670	17.4250	21.6970	19.1220	85.58%	0.0000
%RSD		3.32	0.8126	6.1456	0.2789	1.3077	0.8658	3.89	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:03:52	20.4780	21.5890	21.6540	76.42%	20.7680	19.9940	24.1530	25.3730
2	14:04:28	20.8240	22.0550	21.7800	79.94%	20.5620	19.8430	23.8460	24.8090
3	14:05:05	20.6530	21.5990	21.7180	82.68%	20.7110	19.8790	24.3400	25.1010
4	14:05:42	20.4060	21.5810	21.5520	84.97%	20.7860	20.0290	24.0540	24.9190
5	14:06:19	20.6300	21.7110	21.6600	86.74%	20.7320	19.9970	24.2130	25.0100
x		20.5980	21.7070	21.6730	82.15%	20.7120	19.9480	24.1210	25.0420
%RSD		0.7916	0.9289	0.3900	4.98	0.4281	0.4110	0.7687	0.8549

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:03:52	24.4750	73.59%	0.0000
2	14:04:28	24.2430	78.98%	0.7490
3	14:05:05	24.4930	81.32%	0.0000
4	14:05:42	24.4650	83.83%	0.0000
5	14:06:19	24.5090	85.30%	0.0000
x		24.4370	80.60%	0.1498
%RSD		0.4495	5.71	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:09:46	96.25%	248.0100	1031.8000	1051.9000	1047.9000	270.7200	1028.7000	94.61%
2	14:10:23	96.29%	250.6500	1089.4000	1078.3000	1094.7000	294.5400	1050.4000	96.34%
3	14:11:00	96.90%	249.0000	1105.0000	1086.8000	1097.5000	300.6600	1057.1000	96.78%
4	14:11:37	96.52%	248.0000	1106.8000	1091.2000	1101.8000	306.6200	1072.0000	96.61%
5	14:12:14	96.24%	249.9600	1086.5000	1090.8000	1085.4000	296.2000	1068.0000	96.64%
x		96.44%	249.1300	1083.9000	1079.8000	1085.5000	293.7500	1055.2000	96.20%
%RSD		0.29	0.4736	2.8144	1.5228	2.0138	4.6627	1.6259	0.94

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:09:46	0.1408	241.3200	239.5500	ID 46.5710	238.8900	1056.6000	1020.3000	239.9000
2	14:10:23	0.1772	239.2600	239.1300	ID 48.7950	239.8500	1092.6000	1051.2000	239.0100
3	14:11:00	0.2145	243.0500	240.5600	ID 48.2380	239.9100	1101.7000	1038.2000	238.8900
4	14:11:37	0.2444	241.2600	241.6100	ID 48.9290	238.1500	1109.2000	1039.5000	238.4400
5	14:12:14	0.2192	241.5100	238.5500	ID 48.9350	239.9500	1096.6000	1023.2000	237.9700
x		0.1992	241.2800	239.8800	ID 48.2940	239.3500	1091.3000	1034.5000	238.8400
%RSD		20.3470	0.5592	0.5063	ID 2.0803	0.3353	1.8655	1.2289	0.3020

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:09:46	243.4300	242.7600	242.8700	247.1700	245.2100	249.8800	249.5200	0.0948
2	14:10:23	241.7100	241.7200	241.1900	244.8600	244.4900	246.4700	247.9400	0.3207
3	14:11:00	242.2600	241.2200	242.0800	247.3300	243.3400	246.8400	244.5200	0.1470
4	14:11:37	240.8400	240.5200	239.7600	244.5300	243.9400	245.1500	246.3000	-0.0590
5	14:12:14	242.5400	239.7100	240.5400	248.7700	243.5300	244.1100	249.9600	-0.2428
x		242.1600	241.1900	241.2900	246.5300	244.1000	246.4900	247.6500	0.0521
%RSD		0.3976	0.4798	0.5096	0.7268	0.3115	0.8851	0.9162	409.6100

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:09:46	93.11%	240.6200	0.6263	240.2500	243.3800	243.2400	94.51%	0.0000
2	14:10:23	95.44%	240.9700	-0.4302	240.4100	245.6500	244.8800	96.51%	0.0000
3	14:11:00	96.62%	240.4000	-1.1536	241.5700	246.8300	243.5900	98.04%	0.0000
4	14:11:37	97.12%	241.8200	2.8046	240.5700	243.4400	243.7500	97.98%	0.0000
5	14:12:14	96.96%	240.4900	2.4721	241.2100	246.2000	245.0100	97.71%	0.0000
x		95.85%	240.8600	0.8639	240.8000	245.1000	244.0900	96.95%	0.0000
%RSD		1.74	0.2395	201.7900	0.2336	0.6520	0.3276	1.55	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:09:46	238.7800	244.7800	241.4100	92.16%	242.2300	236.2700	240.8000	242.4400
2	14:10:23	241.5100	244.1400	246.1200	95.49%	242.1700	237.9100	241.2600	245.1500
3	14:11:00	242.7800	240.4200	240.4900	T 100.00%	242.0600	237.8300	241.2900	244.2500
4	14:11:37	243.3500	241.8100	239.3000	T 99.67%	241.6400	236.7800	241.3600	242.9200
5	14:12:14	242.6800	243.7200	240.2400	T 100.17%	243.1600	238.3300	243.0800	243.3900
x		241.8200	242.9700	241.5100	T 97.50%	242.2500	237.4200	241.5600	243.6300
%RSD		0.7552	0.7442	1.1109	T 3.65	0.2295	0.3622	0.3632	0.4438

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:09:46	239.8800	94.77%	0.0000
2	14:10:23	241.4800	98.70%	0.0000
3	14:11:00	241.2800	100.42%	0.5891
4	14:11:37	240.6700	100.49%	0.5887
5	14:12:14	241.2500	100.34%	0.0000
x		240.9100	98.95%	0.2356
%RSD		0.2704	2.47	136.9300

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:15:43	95.92%	0.0190	2.8418	2.8330	3.1607	2.0402	6.5403	93.78%
2	14:16:19	97.38%	0.0524	13.9880	13.5810	14.3620	11.0720	18.4440	96.42%
3	14:16:56	98.00%	0.0828	25.2050	26.1040	23.6030	19.8570	32.2520	98.14%
4	14:17:33	98.34%	0.0698	17.6920	18.2620	19.7480	14.5120	23.3300	98.65%
5	14:18:10	98.20%	0.0671	17.5200	17.7720	16.9180	14.9210	21.1950	99.64%
x		97.57%	0.0582	15.4490	15.7100	15.5580	12.4810	20.3520	97.33%
%RSD		1.01	41.9400	52.7420	54.1180	49.7080	53.0710	45.6710	2.36

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:15:43	0.0724	0.0083	0.0223	ID -0.0301	0.0184	7.3053	4.1532	0.0202
2	14:16:19	0.1312	0.0690	0.0430	ID 0.2395	0.0447	14.7300	15.6470	0.0433
3	14:16:56	0.0944	0.1084	0.0850	ID 0.7084	0.0813	22.4890	20.5520	0.0926
4	14:17:33	0.1007	0.0552	0.1053	ID 0.3997	0.0620	18.9890	15.2700	0.0573
5	14:18:10	0.1035	0.0475	0.0744	ID 0.5026	0.0406	18.0260	16.3490	0.0525
x		0.1005	0.0577	0.0660	ID 0.3640	0.0494	16.3080	14.3940	0.0532
%RSD		20.9650	62.8140	50.3020	ID 76.4610	47.8660	35.2100	42.3950	49.3230

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:15:43	0.0202	0.1125	0.0988	-0.0329	-0.0905	1.3367	-0.3728	0.6039
2	14:16:19	0.0477	0.1623	0.1095	0.0318	0.0047	1.5032	-0.1337	-0.1000
3	14:16:56	0.1225	0.1990	0.1284	0.0831	0.0556	1.6289	0.0497	0.1590
4	14:17:33	0.0794	0.1779	0.1008	0.0431	0.0325	1.6174	-0.0899	0.2794
5	14:18:10	0.0868	0.1956	0.1182	0.0004	0.0287	1.8209	-0.1655	0.3719
x		0.0713	0.1695	0.1112	0.0251	0.0062	1.5814	-0.1425	0.2628
%RSD		54.7620	20.6950	11.0990	174.9200	920.2700	11.2650	107.2400	99.0260

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:15:43	92.03%	0.0237	-0.9242	0.0308	0.0123	0.0109	91.31%	0.0000
2	14:16:19	94.64%	0.0419	-0.5473	0.0288	0.0516	0.0576	94.03%	0.0000
3	14:16:56	96.08%	0.0560	0.0202	0.0613	0.0810	0.1025	95.86%	0.0000
4	14:17:33	97.86%	0.0458	-0.3254	0.0482	0.0586	0.0825	96.89%	0.0000
5	14:18:10	98.56%	0.0454	0.2401	0.0586	0.0724	0.0617	98.57%	0.0000
x		95.83%	0.0426	-0.3073	0.0456	0.0552	0.0630	95.33%	0.0000
%RSD		2.74	27.6810	149.5900	33.2930	48.1320	54.2950	2.93	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:15:43	0.4692	0.0084	0.0148	87.34%	0.0367	0.0372	0.0191	-0.0003
2	14:16:19	0.6055	0.0603	0.0401	T 93.95%	0.0879	0.0856	0.0426	0.0687
3	14:16:56	0.5869	0.0796	0.1184	93.14%	0.1161	0.1194	0.1033	0.1109
4	14:17:33	0.4806	0.0577	0.0567	T 98.07%	0.0890	0.0843	0.0680	0.0759
5	14:18:10	0.4773	0.0316	0.0415	T 98.92%	0.0883	0.0628	0.0571	0.0698
x		0.5239	0.0475	0.0543	T 94.29%	0.0836	0.0779	0.0580	0.0650
%RSD		12.6830	58.3810	71.5220	T 4.90	34.5050	39.0920	53.8060	62.1530

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:15:43	0.0137	88.96%	0.6650
2	14:16:19	0.0522	93.05%	0.0000
3	14:16:56	0.0993	94.82%	0.0000
4	14:17:33	0.0676	96.94%	0.0000
5	14:18:10	0.0621	98.60%	0.0000
x		0.0590	94.47%	0.1330
%RSD		52.2780	3.95	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:21:40	99.52%	0.0162	2.1169	1.4792	1.7280	2.2700	12.7380	96.15%
2	14:22:17	99.33%	0.0607	16.2200	15.5020	14.2990	12.3770	28.0870	98.01%
3	14:22:53	100.40%	0.0557	27.5110	28.4600	29.4230	23.5840	38.7670	98.66%
4	14:23:30	99.85%	0.0782	28.2800	28.9240	28.7490	24.7460	35.5870	99.18%
5	14:24:07	101.02%	0.0593	17.7540	17.8180	16.1970	15.9010	24.3350	100.27%
x		100.02%	0.0540	18.3760	18.4370	18.0790	15.7760	27.9030	98.45%
%RSD		0.69	42.2710	57.7780	61.0650	63.5330	58.0450	36.7160	1.56

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:21:40	0.0856	-0.1850	0.2304	ID -0.0774	-0.0031	2.3953	0.6900	0.0025
2	14:22:17	0.1223	0.0992	0.2476	ID 0.4288	0.0581	10.4340	4.0994	0.0320
3	14:22:53	0.1413	-0.1670	0.2935	ID 1.0114	0.0911	23.8090	14.4660	0.0787
4	14:23:30	0.1430	0.2362	0.2275	ID 0.9742	0.0848	23.9870	14.5250	0.0713
5	14:24:07	0.0867	0.2636	0.1992	ID 0.5219	0.0405	12.9300	5.1809	0.0332
x		0.1158	0.0494	0.2396	ID 0.5718	0.0543	14.7110	7.7924	0.0435
%RSD		24.3870	435.3600	14.5010	ID 78.1900	70.0850	62.8520	81.3590	71.9870

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:21:40	0.0249	0.2011	0.1581	0.3478	-0.0080	-0.2290	-0.1804	-0.1571
2	14:22:17	0.0663	0.2490	0.1403	0.4807	-0.0478	0.0427	-0.0423	-0.7957
3	14:22:53	0.0988	0.2998	0.1217	0.4931	0.1034	-0.0179	0.0154	-0.5405
4	14:23:30	0.1034	0.2756	0.1621	0.4057	-0.0711	-0.4265	0.0282	-0.6391
5	14:24:07	0.0993	0.2505	0.1438	0.4237	-0.0504	-0.7023	-0.2688	0.5388
x		0.0786	0.2552	0.1452	0.4302	-0.0148	-0.2666	-0.0896	-0.3187
%RSD		42.6090	14.3900	11.0570	13.7250	473.4800	114.7500	145.0200	167.5600

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:21:40	94.47%	0.0306	-0.4453	0.0347	0.0032	-0.0018	94.04%	0.0000
2	14:22:17	96.22%	0.0454	-0.9481	0.0447	0.0563	0.0544	97.45%	0.0000
3	14:22:53	98.16%	0.0555	0.9110	0.0513	0.0572	0.0677	99.56%	0.0000
4	14:23:30	99.35%	0.0446	0.7725	0.0509	0.1128	0.0829	100.17%	0.0000
5	14:24:07	100.53%	0.0418	1.1301	0.0284	0.0561	0.0543	101.52%	0.0000
x		97.75%	0.0436	0.2841	0.0420	0.0571	0.0515	98.55%	0.0000
%RSD		2.48	20.4660	324.4600	24.1110	67.8770	62.1510	2.96	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:21:40	0.1974	0.0075	-0.0049	92.23%	-0.0111	-0.0190	0.0557	0.0505
2	14:22:17	0.2495	0.0510	0.0527	T 98.52%	0.0523	0.0527	0.0921	0.0768
3	14:22:53	0.2717	0.1361	0.0723	T 101.54%	0.0687	0.0756	0.1147	0.1064
4	14:23:30	0.2812	0.0671	0.0887	T 103.45%	0.0561	0.0478	0.1015	0.1163
5	14:24:07	0.2315	0.0601	0.0362	T 104.42%	0.0146	0.0100	0.0981	0.0601
x		0.2463	0.0644	0.0490	T 100.03%	0.0361	0.0334	0.0924	0.0820
%RSD		13.6040	71.9420	73.6430	T 4.91	92.1050	112.4500	23.9390	34.8640

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:21:40	0.0430	94.15%	0.0000
2	14:22:17	0.0899	99.17%	0.0000
3	14:22:53	0.1016	101.66%	0.0000
4	14:23:30	0.1017	104.12%	0.0000
5	14:24:07	0.0707	105.22%	0.0000
x		0.0814	100.86%	0.0000
%RSD		30.5920	4.38	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:27:35	97.89%	96.5600	1225.4000	1218.8000	1235.1000	509.3700	2023.3000	92.30%
2	14:28:12	98.17%	96.5840	1266.5000	1266.3000	1262.5000	522.3900	2034.9000	93.39%
3	14:28:49	98.67%	97.8000	1275.8000	1262.6000	1251.0000	522.2600	2050.2000	94.67%
4	14:29:25	99.05%	95.7130	1280.7000	1247.6000	1268.0000	524.5800	2067.6000	95.11%
5	14:30:02	98.96%	95.8290	1282.9000	1275.4000	1260.8000	517.7100	2061.4000	95.08%
x		98.55%	96.4970	1266.3000	1254.1000	1255.5000	519.2600	2047.5000	94.11%
%RSD		0.51	0.8626	1.8736	1.7666	1.0325	1.1694	0.8982	1.31

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:27:35	0.0978	96.2860	94.6800	ID 44.1750	93.7980	1055.4000	1034.6000	94.9540
2	14:28:12	0.1511	95.9410	93.9040	ID 45.1040	93.8370	1077.7000	1048.3000	94.5810
3	14:28:49	0.1150	95.5690	92.8520	ID 45.6200	93.7630	1076.6000	1047.8000	95.1370
4	14:29:25	0.0976	95.1280	92.9370	ID 45.5740	93.8360	1081.7000	1021.0000	94.4880
5	14:30:02	0.0841	95.1960	92.8880	ID 44.9860	93.7790	1072.9000	1029.1000	93.5250
x		0.1091	95.6240	93.4520	ID 45.0920	93.8030	1072.9000	1036.2000	94.5370
%RSD		23.7280	0.5151	0.8719	ID 1.2953	0.0354	0.9550	1.1466	0.6609

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:27:35	97.0930	97.6700	96.8000	198.3400	191.1000	198.7700	199.1100	0.0033
2	14:28:12	98.1120	95.7110	96.8090	197.3700	192.8100	196.4600	203.2700	1.4900
3	14:28:49	96.1040	95.7500	96.6780	195.8400	193.0500	197.6300	200.3200	0.4970
4	14:29:25	96.8830	96.4730	96.9800	198.0000	191.5200	195.7000	201.4700	1.0892
5	14:30:02	96.4270	95.1600	95.3870	196.8700	191.7900	192.4600	196.9100	0.4042
x		96.9240	96.1530	96.5310	197.2800	192.0600	196.2000	200.2200	0.6968
%RSD		0.7928	1.0065	0.6718	0.4997	0.4378	1.2204	1.1994	84.5920

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:27:35	90.57%	93.9140	-1.4066	93.8240	97.3960	95.8510	90.91%	0.0000
2	14:28:12	91.59%	94.2860	-2.1294	94.2950	97.0030	96.3790	92.43%	0.0000
3	14:28:49	92.88%	94.4180	0.2683	93.6950	97.1160	96.1530	94.58%	0.0000
4	14:29:25	94.18%	94.1880	0.6348	94.0470	97.5620	96.3740	94.97%	0.0000
5	14:30:02	95.13%	94.2410	-0.4336	93.7720	97.0670	96.3670	95.34%	0.0000
x		92.87%	94.2090	-0.6133	93.9260	97.2290	96.2250	93.65%	0.0000
%RSD		2.00	0.1974	187.6000	0.2598	0.2459	0.2388	2.03	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:27:35	194.4100	96.0290	97.1170	88.83%	199.9400	194.6300	190.3300	201.2600
2	14:28:12	195.6300	98.1470	97.9500	91.58%	200.5200	195.9000	190.4400	200.9900
3	14:28:49	193.9400	96.2480	95.5460	T 95.71%	199.3800	195.3300	190.4500	200.1800
4	14:29:25	198.8400	96.0750	97.4820	95.03%	200.0800	194.6000	190.5600	201.2100
5	14:30:02	197.5200	95.8540	94.8550	T 97.56%	201.1600	195.9500	190.8600	201.4900
x		196.0700	96.4710	96.5900	T 93.74%	200.2200	195.2800	190.5300	201.0200
%RSD		1.0598	0.9822	1.3718	T 3.73	0.3314	0.3342	0.1060	0.2511

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:27:35	194.0800	90.48%	0.6538
2	14:28:12	194.4000	93.52%	0.6326
3	14:28:49	194.1300	96.49%	0.0000
4	14:29:25	194.3800	98.12%	0.0000
5	14:30:02	195.3800	98.26%	0.0000
x		194.4700	95.38%	0.2573
%RSD		0.2701	3.50	136.9600

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:33:31	98.12%	0.0240	T 17365.0000	T 17344.0000	T 17329.0000	163.3900	TM 94579.0000	89.28%
2	14:34:08	98.64%	0.0687	T 17921.0000	T 17787.0000	T 17710.0000	171.1200	TM 96125.0000	91.15%
3	14:34:45	99.28%	0.0945	T 18059.0000	T 17849.0000	T 18020.0000	172.8800	TM 96507.0000	93.53%
4	14:35:21	100.25%	0.0782	T 18179.0000	T 18004.0000	T 18033.0000	170.1500	TM 97562.0000	93.98%
5	14:35:58	100.45%	0.0974	T 18402.0000	T 18031.0000	T 18087.0000	169.2300	TM 98370.0000	94.08%
x		99.35%	0.0726	T 17985.0000	T 17803.0000	T 17836.0000	169.3500	TM 96629.0000	92.40%
%RSD		1.01	40.7480	T 2.1632	T 1.5518	T 1.7926	2.1229	TM 1.4972	2.29

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:33:31	0.9240	0.6341	0.7703	ID 6.6390	36.1830	177.8000	1143.2000	0.3999
2	14:34:08	0.8028	0.7844	0.8750	ID 6.5902	35.6860	178.0700	1027.4000	0.4449
3	14:34:45	0.8210	0.1961	0.7804	ID 7.1909	35.8720	182.0600	940.3500	0.4310
4	14:35:21	0.7857	0.4989	0.8575	ID 6.9964	35.8710	179.7300	898.8200	0.4189
5	14:35:58	0.7666	0.4136	0.8270	ID 6.9942	36.0750	180.4900	926.2900	0.3891
x		0.8200	0.5054	0.8221	ID 6.8821	35.9380	179.6300	987.2100	0.4168
%RSD		7.5041	44.0780	5.6059	ID 3.7420	0.5412	0.9814	10.0880	5.4317

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:33:31	3.6196	3.0680	3.2451	105.2500	1.3097	0.1421	0.4046	0.1568
2	14:34:08	3.3590	3.0718	3.2267	105.7600	1.3626	0.0305	0.6180	0.5710
3	14:34:45	3.1906	3.1784	3.1520	105.6500	1.2667	-0.2725	0.7810	-1.1377
4	14:35:21	3.2369	3.0773	3.3012	104.3600	1.1922	-0.3062	0.2994	0.0674
5	14:35:58	3.1366	3.1663	3.3462	105.3800	1.2318	-0.1483	0.2200	0.0727
x		3.3085	3.1123	3.2542	105.2800	1.2726	-0.1109	0.4646	-0.0540
%RSD		5.8121	1.7685	2.2766	0.5248	5.2183	174.4400	49.8290	1186.8000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:33:31	85.34%	0.4022	-0.9360	0.3756	1.1911	1.2962	84.85%	0.0000
2	14:34:08	88.49%	0.4432	0.2537	0.4584	1.2906	1.3934	88.11%	0.0000
3	14:34:45	90.28%	0.4527	0.4444	0.4611	1.3480	1.4123	90.08%	0.0000
4	14:35:21	92.18%	0.4295	0.4915	0.4183	1.3988	1.4021	91.49%	0.0000
5	14:35:58	92.02%	0.3812	0.4551	0.4025	1.3420	1.4110	92.80%	0.0000
x		89.66%	0.4218	0.1417	0.4232	1.3141	1.3830	89.47%	0.0000
%RSD		3.17	7.0173	430.0700	8.6827	5.9896	3.5496	3.48	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:33:31	1.7327	239.8700	239.9400	83.08%	0.1712	0.1467	8.5787	9.4348
2	14:34:08	1.9397	238.8200	239.4400	87.06%	0.2219	0.2506	8.8142	9.6783
3	14:34:45	2.0623	240.5500	240.2300	90.39%	0.2315	0.2172	8.6901	9.4711
4	14:35:21	1.8531	242.0400	241.2900	92.19%	0.1911	0.1739	8.6236	9.5526
5	14:35:58	1.7854	238.0600	239.8500	93.73%	0.1221	0.1250	8.4386	9.3690
x		1.8746	239.8700	240.1500	89.29%	0.1876	0.1827	8.6290	9.5012
%RSD		6.9565	0.6435	0.2907	4.78	23.3520	28.0620	1.6065	1.2540

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:33:31	9.0731	80.93%	0.0000
2	14:34:08	9.2169	85.36%	0.0000
3	14:34:45	9.0624	88.78%	0.0000
4	14:35:21	9.0857	90.58%	0.0000
5	14:35:58	9.0256	92.59%	0.0000
x		9.0927	87.65%	0.0000
%RSD		0.8023	5.25	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:39:27	93.88%	0.1908	T 4032.4000	4143.5000	4121.4000	T 3094.1000	19900.0000	90.55%
2	14:40:03	94.76%	0.1873	T 4104.0000	4221.3000	4235.8000	T 3133.0000	M 20302.0000	91.76%
3	14:40:41	95.01%	0.2547	T 4153.3000	4259.2000	4266.5000	T 3127.0000	M 20437.0000	93.37%
4	14:41:17	95.35%	0.2205	T 4166.8000	4226.0000	4252.3000	T 3107.1000	M 20588.0000	93.47%
5	14:41:54	96.06%	0.2173	T 4107.0000	4205.1000	4215.8000	T 3087.7000	M 20441.0000	93.85%
x		95.01%	0.2141	T 4112.7000	4211.0000	4218.3000	T 3109.8000	M 20334.0000	92.60%
%RSD		0.84	12.7250	T 1.2831	1.0109	1.3608	T 0.6385	M 1.2913	1.51

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:39:27	5.2446	7.5316	4.3172	ID 97.4260	68.4130	T 2297.7000	2538.3000	1.3383
2	14:40:03	5.5069	7.8660	4.4317	ID 99.4390	69.4070	T 2346.9000	2555.2000	1.3536
3	14:40:41	5.1889	7.4110	4.2907	ID 100.0700	69.5030	T 2347.4000	2507.4000	1.3929
4	14:41:17	5.4018	7.6143	4.4357	ID 99.8160	69.8000	T 2344.0000	2527.5000	1.3294
5	14:41:54	5.2482	7.6806	4.3993	ID 99.1730	69.7490	T 2346.0000	2484.0000	1.2744
x		5.3181	7.6207	4.3749	ID 99.1850	69.3740	T 2336.4000	2522.5000	1.3377
%RSD		2.4810	2.2319	1.5308	ID 1.0504	0.8104	T 0.9269	1.0953	3.2091

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:39:27	3.3803	11.9000	11.4340	56.9800	11.0500	-0.4123	0.5133	-0.1214
2	14:40:03	3.1424	12.2010	11.6480	56.6040	10.8950	-0.3735	0.0988	0.7207
3	14:40:41	3.2068	11.7990	11.2970	56.8120	10.8330	-0.5383	0.1749	1.0440
4	14:41:17	3.2260	12.1480	11.6460	56.8590	10.7200	-0.5168	0.3184	0.1583
5	14:41:54	3.3616	12.0260	11.5760	57.5920	10.6810	-0.6139	0.3480	0.0058
x		3.2634	12.0150	11.5200	56.9690	10.8360	-0.4910	0.2907	0.3615
%RSD		3.1608	1.3945	1.3215	0.6553	1.3599	19.8490	55.4230	138.0400

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:39:27	86.84%	0.6213	-0.4014	0.5944	0.2436	0.2205	86.17%	0.0000
2	14:40:03	89.65%	0.6937	0.6814	0.6968	0.2899	0.2474	89.63%	0.0000
3	14:40:41	91.17%	0.7288	0.3984	0.7317	0.3581	0.2665	91.11%	0.0000
4	14:41:17	91.60%	0.6929	0.8253	0.7471	0.2756	0.2637	92.20%	0.0000
5	14:41:54	92.07%	0.6874	1.0829	0.6736	0.2900	0.2607	91.75%	0.0000
x		90.27%	0.6848	0.5173	0.6887	0.2914	0.2518	90.17%	0.0000
%RSD		2.35	5.7068	110.2000	8.7250	14.3470	7.5235	2.71	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:39:27	3.1401	54.9830	54.5950	87.46%	0.0983	0.0941	34.9030	37.5810
2	14:40:03	3.2826	53.6610	55.1630	92.09%	0.1698	0.1594	34.9980	37.8760
3	14:40:41	3.2999	54.7630	54.7240	94.25%	0.1938	0.1801	34.5480	37.7960
4	14:41:17	3.2802	55.8580	54.6090	94.31%	0.1741	0.1693	34.7230	38.0850
5	14:41:54	3.1913	54.5000	54.5940	94.51%	0.1662	0.1395	34.5810	38.0340
x		3.2388	54.7530	54.7370	92.52%	0.1604	0.1485	34.7510	37.8740
%RSD		2.1488	1.4531	0.4463	3.24	22.6520	22.8130	0.5668	0.5312

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:39:27	36.2380	86.01%	0.0000
2	14:40:03	36.4470	90.35%	0.0000
3	14:40:41	36.4280	92.41%	0.0000
4	14:41:17	36.4520	92.88%	0.0000
5	14:41:54	36.4980	92.82%	0.0000
x		36.4130	90.89%	0.0000
%RSD		0.2769	3.21	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:45:23	97.30%	0.0358	T 9511.7000	9922.3000	9926.8000	74.3420	TM 84630.0000	89.46%
2	14:46:00	98.03%	0.0750	T 9569.6000	9896.4000	10004.0000	80.5990	TM 84968.0000	90.58%
3	14:46:36	98.76%	0.0701	T 9598.2000	10114.0000	10120.0000	80.1350	TM 86631.0000	90.46%
4	14:47:13	97.82%	0.0383	T 9861.7000	10128.0000	10262.0000	76.6680	TM 87257.0000	90.84%
5	14:47:50	97.86%	0.0397	T 9877.4000	10352.0000	10298.0000	75.0960	TM 88121.0000	90.50%
x		97.95%	0.0518	T 9683.7000	10083.0000	10122.0000	77.3680	TM 86322.0000	90.37%
%RSD		0.54	36.8710	T 1.7820	1.8288	1.5830	3.7073	TM 1.7284	0.58

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:45:23	0.4708	0.6384	0.6791	ID 7.2219	27.4530	179.4500	1021.9000	0.3749
2	14:46:00	0.4531	0.4301	0.6187	ID 7.3265	27.3580	183.9000	892.9500	0.3661
3	14:46:36	0.4632	0.3373	0.6386	ID 7.2454	27.4090	183.0900	901.1000	0.3802
4	14:47:13	0.4247	0.3813	0.6335	ID 7.1714	27.4440	175.6500	798.8000	0.3683
5	14:47:50	0.4089	0.5774	0.6443	ID 7.1059	27.6030	177.2900	781.2800	0.3403
x		0.4441	0.4729	0.6428	ID 7.2142	27.4530	179.8800	879.2000	0.3660
%RSD		5.9275	27.3540	3.4806	ID 1.1434	0.3338	1.9888	10.9500	4.2016

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:45:23	4.7483	10.1940	10.4240	TM 5139.3000	4.6300	4.4384	5.7176	2.9791
2	14:46:00	5.0111	10.2420	10.7820	TM 5141.7000	4.6298	4.4829	5.5321	3.4179
3	14:46:36	4.9509	10.0960	10.5160	TM 5119.5000	4.4520	3.9590	4.3730	3.5351
4	14:47:13	4.8968	9.9754	10.2400	TM 5139.3000	4.5104	3.8245	5.8858	1.8354
5	14:47:50	4.8766	10.2110	10.4750	TM 5171.9000	4.5731	4.0357	5.0585	2.5634
x		4.8967	10.1440	10.4870	TM 5142.3000	4.5590	4.1481	5.3134	2.8662
%RSD		2.0021	1.0718	1.8640	TM 0.3656	1.7010	7.1256	11.4790	24.1640

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:45:23	85.66%	0.2244	-0.2517	0.2279	29.5440	28.4430	84.93%	0.0000
2	14:46:00	87.23%	0.3898	-1.0429	0.3963	28.9990	28.5290	86.91%	0.0000
3	14:46:36	87.55%	0.3437	0.1744	0.3072	28.8580	29.0390	87.59%	0.0000
4	14:47:13	88.06%	0.2548	2.3531	0.2678	29.4160	28.9440	88.36%	0.0000
5	14:47:50	88.62%	0.2279	1.5245	0.2426	28.4970	28.8000	89.00%	0.0000
x		87.43%	0.2881	0.5515	0.2884	29.0630	28.7510	87.36%	0.0000
%RSD		1.28	25.8660	248.6600	23.3860	1.4624	0.8979	1.80	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:45:23	22.4270	33.3730	33.6070	84.63%	0.4980	0.4595	159.7300	175.8400
2	14:46:00	22.4350	33.5800	33.0190	87.66%	0.5410	0.5381	161.1200	173.9300
3	14:46:36	22.2470	32.9490	32.7340	88.74%	0.5038	0.5018	159.7200	176.4100
4	14:47:13	22.7270	33.2530	32.6880	89.67%	0.5162	0.4698	159.2200	176.1400
5	14:47:50	22.3450	32.7690	33.0160	91.01%	0.4380	0.4772	159.3300	175.8100
x		22.4360	33.1850	33.0130	88.34%	0.4994	0.4893	159.8200	175.6300
%RSD		0.7990	0.9820	1.1093	2.73	7.6317	6.4186	0.4759	0.5577

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:45:23	169.4500	83.03%	0.0000
2	14:46:00	169.0100	86.20%	0.0000
3	14:46:36	169.3900	87.57%	0.0000
4	14:47:13	168.7600	89.44%	0.6614
5	14:47:50	169.2500	90.83%	0.0000
x		169.1700	87.42%	0.1323
%RSD		0.1696	3.46	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:51:19	97.31%	0.0130	T 9633.3000	10045.0000	10005.0000	71.6330	TM 85719.0000	88.48%
2	14:51:56	97.02%	0.0288	T 9833.7000	10214.0000	10298.0000	73.1690	TM 86934.0000	89.55%
3	14:52:33	98.16%	0.0254	T 9888.7000	10266.0000	10391.0000	74.1010	TM 88304.0000	91.04%
4	14:53:10	99.15%	0.0431	T 9912.1000	10271.0000	10290.0000	75.5990	TM 87912.0000	91.65%
5	14:53:46	98.34%	0.0366	T 10063.0000	10309.0000	10332.0000	74.7710	TM 88977.0000	91.13%
x		98.00%	0.0294	T 9866.1000	10221.0000	10263.0000	73.8550	TM 87569.0000	90.37%
%RSD		0.87	38.9960	T 1.5740	1.0158	1.4604	2.0697	TM 1.4517	1.46

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:51:19	0.4524	0.4278	0.6293	ID 6.8127	27.2640	169.5500	891.6800	0.3334
2	14:51:56	0.4697	0.1719	0.6310	ID 7.1482	27.5800	173.2400	826.5000	0.3603
3	14:52:33	0.3953	0.6496	0.5939	ID 6.7797	27.4450	170.6800	778.5700	0.3350
4	14:53:10	0.4326	0.5372	0.6578	ID 7.1718	27.6430	171.4400	758.2400	0.3017
5	14:53:46	0.3834	0.5148	0.6025	ID 7.1456	27.5340	172.4400	700.1200	0.3482
x		0.4267	0.4602	0.6229	ID 7.0116	27.4930	171.4700	791.0200	0.3357
%RSD		8.6152	39.0120	4.0728	ID 2.8131	0.5351	0.8441	9.1346	6.5321

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:51:19	4.9744	9.9145	10.5050	TM 5151.2000	4.6065	3.9688	4.7009	3.4746
2	14:51:56	4.7965	10.1290	10.3510	TM 5160.8000	4.4525	3.9481	5.7374	2.9810
3	14:52:33	4.6010	10.0940	10.5480	TM 5133.0000	4.5057	3.8569	4.9081	3.0448
4	14:53:10	4.7651	10.0870	10.1400	TM 5116.9000	4.4173	3.2862	5.0695	3.1990
5	14:53:46	4.7013	10.0410	10.0020	TM 5130.0000	4.2491	3.2108	5.0901	2.7765
x		4.7677	10.0530	10.3090	TM 5138.4000	4.4462	3.6542	5.1012	3.0952
%RSD		2.8870	0.8306	2.2777	TM 0.3413	2.9534	10.2250	7.6136	8.4239

Run	Time	89Y	107Ag	105Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:51:19	84.87%	0.1723	0.7575	0.1590	28.5530	29.1540	84.74%	0.0000
2	14:51:56	87.66%	0.2277	0.8553	0.2577	29.0840	28.7180	88.28%	0.0000
3	14:52:33	88.53%	0.2865	0.3367	0.3028	29.5750	28.7680	89.64%	0.0000
4	14:53:10	90.18%	0.3260	1.3406	0.3387	29.0530	28.8690	90.59%	0.0000
5	14:53:46	90.53%	0.2472	0.5430	0.2422	29.4610	29.0170	90.80%	0.0000
x		88.35%	0.2519	0.7666	0.2601	29.1450	28.9050	88.81%	0.0000
%RSD		2.58	23.1600	49.3390	26.1810	1.3801	0.6226	2.80	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:51:19	22.8070	33.6240	33.6350	86.20%	0.4447	0.4359	159.6500	174.4100
2	14:51:56	22.2610	32.3320	32.0360	90.27%	0.4635	0.4433	159.2700	175.2700
3	14:52:33	22.5160	32.5860	32.0660	T 95.26%	0.4856	0.4696	159.4900	175.1500
4	14:53:10	22.6860	32.3820	33.0100	94.72%	0.5354	0.4496	159.1500	174.6800
5	14:53:46	22.5760	33.7350	32.2650	95.47%	0.4656	0.4390	160.4800	177.1000
x		22.5690	32.9320	32.6020	T 92.39%	0.4789	0.4475	159.6100	175.3200
%RSD		0.9086	2.0962	2.1446	T 4.39	7.2467	2.9899	0.3289	0.5997

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:51:19	168.6500	85.85%	0.0000
2	14:51:56	168.5200	90.51%	0.0000
3	14:52:33	169.4400	92.63%	0.0000
4	14:53:10	168.8900	94.66%	0.0000
5	14:53:46	169.8700	95.06%	0.0000
x		169.0800	91.74%	0.0000
%RSD		0.3360	4.10	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:57:25	96.92%	0.0131	0.6907	0.7873	0.4826	0.1518	9.0222	89.61%
2	14:58:03	97.22%	0.0016	2.4612	2.5741	2.5720	0.4726	19.3880	90.67%
3	14:58:41	98.18%	0.0126	4.0982	3.8140	3.8822	1.0500	24.0020	92.83%
4	14:59:19	98.58%	0.0026	4.3382	4.9661	4.0944	1.1337	30.9180	93.88%
5	14:59:59	99.93%	0.0065	3.6757	3.1412	3.5354	1.0173	25.1530	93.99%
x		98.17%	0.0073	3.0528	3.0565	2.9133	0.7651	21.6970	92.20%
%RSD		1.22	74.5360	49.3060	50.7100	50.7550	56.3050	37.7450	2.13

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:57:25	0.0706	0.1013	0.0445	ID -0.1828	0.0018	3.3189	-4.4677	0.0053
2	14:58:03	0.0438	0.0157	0.0149	ID -0.1437	0.0065	4.3890	-1.9758	0.0004
3	14:58:41	0.0522	0.0202	0.0723	ID -0.1125	0.0248	1.4120	1.5993	0.0042
4	14:59:19	0.0525	-0.0148	0.0359	ID -0.0591	0.0126	0.8093	-4.8962	0.0099
5	14:59:59	0.0570	-0.0125	-0.0319	ID -0.1215	0.0279	0.7333	-2.3355	0.0015
x		0.0552	0.0220	0.0271	ID -0.1239	0.0147	2.1325	-2.4152	0.0042
%RSD		17.7810	214.1900	143.3300	ID 36.5100	76.9640	76.7930	106.9400	87.3040

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:57:25	-0.0057	-0.0054	0.0253	0.7333	-0.0754	-1.0157	-0.1466	0.1627
2	14:58:03	0.0093	-0.0105	0.0217	1.0808	-0.0121	-1.2202	-0.1472	0.0794
3	14:58:41	0.0206	0.0008	0.0553	1.5466	-0.0790	-1.2598	-0.4234	0.0501
4	14:59:19	0.0202	-0.0013	0.0346	1.4073	-0.0367	-0.6659	-0.3089	0.2148
5	14:59:59	-0.0004	-0.0121	0.0320	1.3049	-0.0131	-0.7330	-0.0841	-0.5194
x		0.0088	-0.0057	0.0338	1.2146	-0.0433	-0.9789	-0.2220	-0.0025
%RSD		135.0400	97.9000	38.7500	26.1990	75.2050	27.8310	63.0510	11957.0000

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:57:25	86.88%	0.0028	-0.7127	0.0084	0.0011	-0.0012	87.43%	0.0000
2	14:58:03	88.82%	0.0168	-0.0618	0.0298	0.0011	0.0026	89.53%	0.0000
3	14:58:41	91.03%	0.0402	-0.5558	0.0523	0.0101	0.0147	91.23%	0.0000
4	14:59:19	91.80%	0.0530	0.5819	0.0649	0.0099	0.0190	92.37%	0.0000
5	14:59:59	91.92%	0.0494	-0.2996	0.0479	0.0076	0.0068	93.38%	0.0000
x		90.09%	0.0324	-0.2096	0.0407	0.0060	0.0084	90.79%	0.0000
%RSD		2.43	67.1100	242.0300	54.0770	76.4010	100.0200	2.60	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:57:25	0.0293	-0.0125	0.0031	T 88.79%	-0.0189	-0.0230	0.0497	0.0198
2	14:58:03	0.0401	0.0016	0.0150	87.56%	-0.0192	-0.0164	0.0386	0.0331
3	14:58:41	0.0681	0.0422	0.0378	90.60%	-0.0227	-0.0142	0.0570	0.0788
4	14:59:19	0.0513	0.0348	0.0449	91.70%	-0.0156	-0.0148	0.0564	0.0593
5	14:59:59	0.0411	0.0139	0.0025	T 95.33%	-0.0074	-0.0141	0.0578	0.0628
x		0.0460	0.0160	0.0207	T 90.80%	-0.0168	-0.0165	0.0519	0.0508
%RSD		31.8180	141.9200	95.3350	T 3.30	34.7530	22.8000	15.5670	46.9620

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	14:57:25	0.0307	88.46%	0.0000
2	14:58:03	0.0388	91.60%	0.0000
3	14:58:41	0.0627	94.23%	0.0000
4	14:59:19	0.0621	94.95%	0.0000
5	14:59:59	0.0594	96.23%	0.0000
x		0.0507	93.10%	0.0000
%RSD		29.3850	3.32	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:31	97.65%	0.0101	0.3713	0.5072	0.4970	1.2705	9.8397	86.28%
2	15:04:08	98.40%	0.0028	1.2269	1.1248	1.1124	1.4981	13.0360	88.87%
3	15:04:45	99.04%	0.0026	1.7720	1.6461	1.7706	1.6122	21.0530	89.60%
4	15:05:22	98.62%	-0.0016	0.9344	1.6886	0.9717	1.3809	12.1950	90.48%
5	15:05:59	99.83%	0.0010	0.7613	0.4803	1.0511	1.3989	10.5050	90.00%
x		98.71%	0.0030	1.0132	1.0894	1.0806	1.4321	13.3260	89.05%
%RSD		0.82	145.3700	51.8350	53.9210	42.1680	9.0124	33.8090	1.86

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:31	0.0838	-0.1764	0.2600	ID -0.1141	-0.0049	-3.8958	-0.1626	-0.0034
2	15:04:08	0.0701	0.2107	0.2030	ID -0.0193	0.0050	-4.4697	0.1663	0.0007
3	15:04:45	0.0786	0.0653	0.2706	ID -0.0919	-0.0002	-5.1104	-3.3562	-0.0022
4	15:05:22	0.0566	0.3374	0.1947	ID -0.1879	0.0059	-6.6125	-6.0638	0.0018
5	15:05:59	0.0572	-0.1484	0.1913	ID -0.1369	0.0000	-4.6356	-5.4349	-0.0042
x		0.0692	0.0577	0.2239	ID -0.1100	0.0012	-4.9448	-2.9702	-0.0015
%RSD		17.7520	386.4200	17.0530	ID 56.3600	376.6400	20.7970	97.4520	177.2800

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:31	0.0269	0.0265	0.0737	0.7921	-0.0673	-1.3708	-0.3390	0.3242
2	15:04:08	0.0226	0.0006	0.0471	0.8559	0.1233	-1.6074	0.0087	0.0814
3	15:04:45	0.0406	0.0345	0.0591	0.9448	-0.0268	-1.3522	-0.4853	0.4401
4	15:05:22	0.0094	0.0179	0.0320	0.7061	-0.2270	-2.1421	-0.5128	0.7690
5	15:05:59	0.0490	0.0104	0.0473	0.8356	0.0551	-1.7320	-0.0321	0.1189
x		0.0297	0.0180	0.0518	0.8269	-0.0285	-1.6409	-0.2721	0.3467
%RSD		52.2870	73.7000	29.9950	10.5800	466.5600	19.6770	90.8220	80.2760

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:31	83.54%	0.0025	-0.5066	0.0111	0.0012	-0.0016	83.59%	0.0000
2	15:04:08	85.51%	0.0102	0.3375	0.0130	0.0010	0.0014	86.47%	0.0000
3	15:04:45	86.94%	0.0187	-0.3204	0.0251	0.0081	0.0019	88.27%	0.0000
4	15:05:22	88.77%	0.0097	0.7344	0.0103	0.0079	0.0011	90.07%	0.0000
5	15:05:59	89.67%	0.0087	0.5738	0.0070	-0.0013	0.0009	90.13%	0.0000
x		86.89%	0.0100	0.1638	0.0133	0.0034	0.0007	87.71%	0.0000
%RSD		2.84	57.7930	335.5600	52.1970	127.6100	182.7500	3.14	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:31	0.0328	0.0176	-0.0007	81.74%	-0.0398	-0.0380	0.0126	0.0058
2	15:04:08	0.0400	0.0020	-0.0008	85.62%	-0.0291	-0.0294	0.0190	0.0227
3	15:04:45	0.0539	0.0087	0.0071	88.22%	-0.0297	-0.0330	0.0179	0.0423
4	15:05:22	0.0429	0.0151	0.0029	90.62%	-0.0339	-0.0358	0.0219	0.0157
5	15:05:59	0.0395	-0.0125	-0.0049	92.23%	-0.0382	-0.0356	0.0226	0.0167
x		0.0418	0.0062	0.0007	87.69%	-0.0341	-0.0344	0.0188	0.0206
%RSD		18.4080	195.3900	651.3800	4.74	14.1840	9.6026	21.2270	65.6540

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:03:31	0.0206	85.05%	0.0000
2	15:04:08	0.0241	89.51%	0.0000
3	15:04:45	0.0310	92.36%	0.0000
4	15:05:22	0.0198	94.92%	0.0000
5	15:05:59	0.0142	96.34%	0.0000
x		0.0219	91.64%	0.0000
%RSD		28.2800	4.92	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:09:26	98.65%	94.7720	1213.9000	1204.1000	1208.7000	498.5500	2014.8000	87.13%
2	15:10:06	97.78%	96.1080	1237.6000	1232.4000	1227.3000	497.0400	2072.5000	88.41%
3	15:10:44	98.79%	95.5510	1253.1000	1248.7000	1248.2000	499.7400	2081.4000	89.35%
4	15:11:21	100.06%	95.1160	1251.1000	1243.1000	1239.1000	502.7700	2077.9000	89.10%
5	15:11:57	98.23%	95.9040	1252.4000	1244.7000	1239.5000	498.9600	2079.3000	89.31%
x		98.70%	95.4900	1241.6000	1234.6000	1232.5000	499.4100	2065.2000	88.66%
%RSD		0.87	0.5766	1.3491	1.4643	1.2388	0.4245	1.3719	1.06

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:09:26	0.0824	96.1190	93.5930	ID 44.7050	94.3780	1040.1000	1013.4000	95.0910
2	15:10:06	0.0674	94.8970	92.9040	ID 44.0730	94.1700	1048.6000	1021.5000	95.0970
3	15:10:44	0.0756	96.2650	93.6260	ID 43.9790	94.0270	1054.0000	1037.5000	94.3960
4	15:11:21	0.0809	95.8150	93.8050	ID 44.7830	95.0410	1064.2000	1028.9000	95.0950
5	15:11:57	0.0469	95.5510	93.5000	ID 44.5430	94.5500	1058.1000	1048.3000	94.8460
x		0.0706	95.7290	93.4860	ID 44.4170	94.4330	1053.0000	1029.9000	94.9050
%RSD		20.5230	0.5651	0.3672	ID 0.8297	0.4169	0.8716	1.3197	0.3206

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:09:26	97.4090	96.8150	96.5070	199.8500	192.1500	198.8100	198.8600	0.1303
2	15:10:06	96.4390	95.6370	96.6650	199.8400	192.6100	197.2100	203.0800	1.0760
3	15:10:44	95.8840	95.5400	96.5130	199.4200	190.5900	194.1200	199.3400	-0.0947
4	15:11:21	97.1920	97.3540	97.1110	202.0500	191.8500	199.0400	201.8300	0.3615
5	15:11:57	98.6540	96.3400	97.0550	200.3900	191.5200	198.4400	199.5500	1.3327
x		97.1160	96.3370	96.7700	200.3100	191.7400	197.5200	200.5300	0.5611
%RSD		1.0840	0.8021	0.3029	0.5166	0.3964	1.0263	0.9116	109.7100

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:09:26	84.57%	94.6430	-1.6793	94.4440	98.2740	97.8170	85.64%	0.0000
2	15:10:06	87.00%	93.7930	0.8861	94.3630	97.5940	96.9630	88.47%	0.0000
3	15:10:44	88.17%	94.5130	-0.3415	93.7510	98.0380	97.3900	89.66%	0.0000
4	15:11:21	87.22%	94.5500	-0.3400	93.7210	97.1580	96.7650	90.20%	0.0000
5	15:11:57	87.32%	94.9460	1.1087	94.5600	97.6910	97.7860	89.63%	0.0000
x		86.86%	94.4890	-0.0732	94.1680	97.7510	97.3440	88.72%	0.0000
%RSD		1.56	0.4494	1533.7000	0.4254	0.4386	0.4877	2.07	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:09:26	197.4800	97.1450	97.4390	85.75%	201.5900	195.9800	191.6500	202.9700
2	15:10:06	197.7400	98.0500	98.2940	88.93%	202.9400	197.9300	192.8200	203.0600
3	15:10:44	197.8000	96.2130	97.9450	90.02%	201.9000	197.6100	191.6100	202.5900
4	15:11:21	196.3900	97.5920	96.3940	90.44%	203.1300	198.3700	193.0900	203.9600
5	15:11:57	199.3200	97.2290	95.9050	90.75%	203.4500	197.4900	191.9500	204.1500
x		197.7400	97.2460	97.1950	89.18%	202.6000	197.4700	192.2300	203.3500
%RSD		0.5292	0.6983	1.0458	2.28	0.3993	0.4573	0.3571	0.3318

Run	Time	208Pb	209Bi	220Rn
		ug/L	ug/L	ug/L
1	15:09:26	196.3000	89.36%	0.0000
2	15:10:06	196.7900	93.06%	0.0000
3	15:10:44	196.6400	95.04%	0.6225
4	15:11:21	196.5900	94.70%	0.0000
5	15:11:57	196.4400	94.95%	0.0000
x		196.5500	93.42%	0.1245
%RSD		0.0953	2.58	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:15:27	93.74%	244.9800	946.2600	948.0200	947.9400	238.1600	939.6800	85.47%
2	15:16:04	93.56%	248.4900	961.6600	972.8900	962.2200	238.8100	973.5400	86.47%
3	15:16:44	94.77%	244.3700	968.7500	965.6700	987.2800	241.2400	977.2200	86.87%
4	15:17:21	94.95%	245.7200	986.1700	970.3600	998.1200	241.8600	982.7600	88.71%
5	15:18:06	94.82%	247.2300	985.9000	1004.7000	1000.4000	241.5800	979.6400	88.33%
x		94.37%	246.1600	969.7500	972.3400	979.1900	240.3300	970.5700	87.17%
%RSD		0.70	0.6852	1.7472	2.1134	2.3614	0.7127	1.8126	1.54

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:15:27	0.1003	244.1000	241.7000	ID 45.0230	237.2000	988.5700	977.3400	239.3300
2	15:16:04	0.0703	242.9300	241.4900	ID 45.2450	236.9600	1002.1000	1004.1000	240.4700
3	15:16:44	0.0235	244.4100	242.2000	ID 46.0310	238.9400	1016.6000	969.9000	239.9500
4	15:17:21	0.0347	240.3200	238.9000	ID 45.0130	237.9000	1012.8000	989.1300	240.0800
5	15:18:06	0.0383	243.3900	240.0800	ID 45.8010	238.9400	1020.9000	986.4600	239.2900
x		0.0534	243.0300	240.8700	ID 45.4230	237.9900	1008.2000	985.3800	239.8200
%RSD		58.8210	0.6671	0.5639	ID 1.0279	0.3930	1.2889	1.3123	0.2118

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:15:27	247.2300	242.4500	244.7400	246.0700	245.8100	248.5200	246.2700	0.7729
2	15:16:04	246.8900	242.7600	245.3500	245.2300	248.3200	248.5200	254.9100	0.9021
3	15:16:44	245.8500	240.7500	243.1900	247.0300	246.7300	245.1300	251.4500	-0.1770
4	15:17:21	245.5700	240.9200	242.7100	245.7600	246.7600	242.6700	247.4300	0.8839
5	15:18:06	242.7500	239.9600	242.3900	244.2200	242.9900	243.8700	246.0500	0.9099
x		245.6600	241.3700	243.6800	245.6600	246.1200	245.7400	249.2200	0.6584
%RSD		0.7199	0.4930	0.5332	0.4221	0.8000	1.0912	1.5439	71.4220

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:15:27	81.92%	241.3600	-0.5564	240.8100	245.0700	243.7800	82.53%	0.0000
2	15:16:04	83.61%	242.0900	-0.8173	241.3700	245.3200	242.8800	84.63%	0.0000
3	15:16:44	85.12%	241.0700	1.9001	241.5000	245.1200	244.5100	86.41%	0.0000
4	15:17:21	86.58%	241.9500	-0.4116	241.0300	246.1000	244.9000	87.50%	0.0000
5	15:18:06	87.56%	239.8900	2.0099	240.9800	245.5200	244.4200	88.42%	0.0000
x		84.95%	241.2700	0.4249	241.1400	245.4300	244.1000	85.90%	0.0000
%RSD		2.66	0.3643	330.5900	0.1178	0.1698	0.3234	2.74	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:15:27	239.4400	241.6400	244.7600	79.71%	240.8200	234.1800	239.4000	240.6800
2	15:16:04	240.8700	241.2200	240.2300	82.98%	242.5100	236.7600	241.0700	242.0300
3	15:16:44	239.8900	244.5400	243.7500	84.71%	242.4600	235.8300	240.9100	242.1900
4	15:17:21	244.2500	243.1600	241.6100	86.84%	241.8900	235.4000	240.3700	241.7300
5	15:18:06	244.2600	240.9500	243.7500	88.00%	241.8000	236.5800	241.5000	243.1000
x		241.7400	242.3000	242.8200	84.45%	241.9000	235.7500	240.6500	241.9500
%RSD		0.9726	0.6254	0.7615	3.88	0.2816	0.4400	0.3364	0.3612

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:15:27	238.2900	82.91%	0.0000
2	15:16:04	239.8400	85.93%	0.0000
3	15:16:44	239.6700	88.59%	0.0000
4	15:17:21	239.8800	90.86%	0.0000
5	15:18:06	240.1200	92.45%	0.0000
x		239.5600	88.15%	0.0000
%RSD		0.3031	4.34	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:35	94.89%	0.0094	0.1357	-0.1381	-0.1045	0.9861	1.3287	88.48%
2	15:22:11	96.74%	0.0059	-0.0456	0.0019	0.0140	0.9921	0.0886	91.54%
3	15:22:48	96.92%	0.0202	0.1429	0.3379	0.0124	1.0660	1.4430	92.14%
4	15:23:25	97.09%	0.0300	0.2823	0.1907	0.3833	1.0974	-0.2433	92.87%
5	15:24:02	98.40%	0.0477	0.4381	0.6628	1.0358	1.1227	2.6018	93.03%
x		96.81%	0.0226	0.1907	0.2111	0.2682	1.0529	1.0438	91.61%
%RSD		1.30	74.6150	94.8200	147.2400	174.0200	5.8520	109.6300	2.02

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:35	0.0528	-0.0127	0.0014	ID -0.1914	0.0139	-4.1403	-2.6760	0.0027
2	15:22:11	0.0694	-0.0029	0.0079	ID -0.2763	-0.0024	-5.1268	-3.2427	0.0084
3	15:22:48	0.0453	0.0515	0.0156	ID -0.1993	0.0207	-4.9994	-2.4245	0.0220
4	15:23:25	0.0321	0.0074	0.0063	ID -0.1432	0.0137	-6.8044	-7.8024	0.0335
5	15:24:02	0.0443	0.0335	0.0376	ID -0.2662	0.0516	-4.1426	-12.3150	0.0613
x		0.0488	0.0154	0.0138	ID -0.2153	0.0195	-5.0427	-5.6920	0.0256
%RSD		28.1210	172.8700	103.4100	ID 25.7950	101.8000	21.5810	75.6070	91.1050

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:35	0.0007	0.1027	0.2311	0.2168	0.0569	-1.4601	0.2125	-0.2273
2	15:22:11	0.0334	0.1552	0.2176	0.1465	0.0986	-1.1029	0.1013	0.4869
3	15:22:48	0.0298	0.1610	0.1568	0.2055	0.0249	-1.1398	0.0808	0.1497
4	15:23:25	0.0501	0.1786	0.1846	0.2411	0.0423	-1.5327	0.0935	-0.2382
5	15:24:02	0.0559	0.1781	0.2189	0.2666	0.0370	-1.1568	0.0123	0.2836
x		0.0340	0.1551	0.2018	0.2153	0.0520	-1.2784	0.1001	0.0910
%RSD		63.5610	20.0350	15.1190	20.9380	54.7980	15.7640	72.0020	350.6600

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:35	86.22%	0.0263	-0.6529	0.0217	0.0011	0.0055	86.79%	0.0000
2	15:22:11	88.78%	0.0264	-0.8754	0.0613	0.0079	0.0036	89.89%	0.0000
3	15:22:48	90.29%	0.0318	0.1596	0.0311	0.0122	0.0183	92.28%	0.0000
4	15:23:25	91.62%	0.0348	0.0727	0.0275	0.0366	0.0266	93.16%	0.0000
5	15:24:02	91.87%	0.0893	0.0608	0.0519	0.0653	0.0546	93.52%	0.0000
x		89.76%	0.0417	-0.2471	0.0387	0.0246	0.0217	91.13%	0.0000
%RSD		2.59	64.3670	194.3200	43.9360	107.2300	95.2190	3.08	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:35	0.4769	-0.0125	0.0074	85.08%	0.0124	0.0063	0.0337	0.0313
2	15:22:11	0.4844	0.0014	0.0346	88.76%	0.0056	0.0030	0.0405	0.0325
3	15:22:48	0.5574	0.0349	0.0143	91.36%	0.0165	0.0131	0.0413	0.0465
4	15:23:25	0.4242	0.0344	0.0217	92.54%	0.0309	0.0396	0.0380	0.0653
5	15:24:02	0.4590	0.0744	0.0824	92.42%	0.0850	0.0812	0.0901	0.0762
x		0.4804	0.0265	0.0321	90.03%	0.0301	0.0286	0.0487	0.0504
%RSD		10.1830	127.4400	93.2280	3.50	106.6500	114.2100	47.9160	39.5970

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:21:35	0.0302	88.96%	0.0000
2	15:22:11	0.0331	92.79%	0.0000
3	15:22:48	0.0431	95.59%	0.0000
4	15:23:25	0.0547	97.02%	0.0000
5	15:24:02	0.0828	96.86%	0.0000
x		0.0488	94.24%	0.0000
%RSD		43.6900	3.61	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:27:30	98.12%	0.0157	T 17295.0000	T 17184.0000	T 17286.0000	9.0261	TM 95752.0000	86.29%
2	15:28:07	98.34%	0.0127	T 17755.0000	T 17501.0000	T 17520.0000	9.3582	TM 97587.0000	88.72%
3	15:28:43	99.89%	0.0052	T 17933.0000	T 17825.0000	T 17904.0000	9.1458	TM 97753.0000	90.14%
4	15:29:20	100.69%	0.0036	T 17991.0000	T 17706.0000	T 17880.0000	9.2390	TM 98075.0000	91.13%
5	15:29:57	101.35%	0.0254	T 17988.0000	T 17866.0000	T 17943.0000	9.1961	TM 97902.0000	91.43%
x		99.68%	0.0125	T 17793.0000	T 17617.0000	T 17707.0000	9.1930	TM 97414.0000	89.54%
%RSD		1.42	70.3240	T 1.6541	T 1.5903	T 1.6376	1.3268	TM 0.9716	2.35

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:27:30	0.2100	0.2573	0.6348	ID 0.2860	16.7820	16.3820	998.2500	0.4522
2	15:28:07	0.2010	0.2277	0.6096	ID 0.2202	16.9570	16.5560	884.6300	0.3792
3	15:28:43	0.1763	0.0655	0.6260	ID 0.2210	17.0570	16.2040	840.7800	0.4051
4	15:29:20	0.1769	0.1502	0.5724	ID 0.2907	17.0070	15.1790	842.2600	0.3875
5	15:29:57	0.1793	0.3319	0.6394	ID 0.2593	17.1930	16.5790	796.6100	0.3796
x		0.1887	0.2065	0.6164	ID 0.2554	16.9990	16.1800	872.5000	0.4007
%RSD		8.3252	49.5150	4.4006	ID 13.3080	0.8814	3.5833	8.8110	7.6488

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:27:30	3.4221	1.3191	1.4215	88.2710	0.7162	-1.1076	0.0339	0.3870
2	15:28:07	3.1671	1.2418	1.5728	88.1580	0.6260	-1.2754	0.3395	0.2584
3	15:28:43	3.2577	1.2785	1.4873	88.1740	0.6569	-1.3685	0.4657	0.0383
4	15:29:20	3.2487	1.2758	1.4437	88.1820	0.8730	-1.1456	0.2913	-0.2070
5	15:29:57	3.2632	1.2378	1.2963	89.4260	0.8247	-1.1449	0.3260	-0.2695
x		3.2717	1.2706	1.4443	88.4420	0.7393	-1.2084	0.2913	0.0414
%RSD		2.8323	2.5937	6.9905	0.6240	14.4010	9.0900	54.3340	687.7100

Run	Time	89Y	107Ag	105MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:27:30	82.13%	0.1882	-1.2795	0.1733	1.3501	1.2078	81.06%	0.0000
2	15:28:07	84.71%	0.1821	0.1245	0.1764	1.3044	1.2430	84.52%	0.0000
3	15:28:43	86.40%	0.1662	-0.2199	0.1811	1.2421	1.2471	86.25%	0.0000
4	15:29:20	87.18%	0.1903	0.9028	0.1790	1.3701	1.2398	86.97%	0.0000
5	15:29:57	86.94%	0.1714	1.2179	0.2086	1.3745	1.2479	87.04%	0.0000
x		85.47%	0.1796	0.1492	0.1837	1.3282	1.2371	85.17%	0.0000
%RSD		2.46	5.8506	661.0000	7.7608	4.1838	1.3511	2.95	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:27:30	1.5353	242.1700	241.4800	80.38%	-0.0008	-0.0063	0.4400	0.4419
2	15:28:07	1.5258	239.7800	241.3000	83.96%	0.0067	0.0016	0.4387	0.4187
3	15:28:43	1.4977	242.9800	243.4500	85.96%	0.0170	0.0027	0.4163	0.4905
4	15:29:20	1.4613	241.1300	241.0500	87.61%	0.0111	0.0111	0.4212	0.4267
5	15:29:57	1.5310	242.2000	240.0000	87.63%	0.0434	0.0302	0.4365	0.4683
x		1.5102	241.6500	241.4600	85.11%	0.0155	0.0079	0.4305	0.4492
%RSD		2.0543	0.5106	0.5197	3.58	108.9600	177.3100	2.5493	6.6492

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:27:30	0.4381	78.23%	0.0000
2	15:28:07	0.4238	82.08%	0.0000
3	15:28:43	0.4333	85.03%	0.0000
4	15:29:20	0.4141	85.91%	0.0000
5	15:29:57	0.4413	85.84%	0.0000
x		0.4301	83.42%	0.0000
%RSD		2.5900	3.95	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:33:25	92.91%	0.0340	T 2604.3000	2632.9000	2649.9000	648.0400	15503.0000	84.84%
2	15:34:02	94.56%	0.0404	T 2671.6000	2713.7000	2692.8000	653.0400	15613.0000	87.02%
3	15:34:39	95.51%	0.0441	T 2662.2000	2715.8000	2758.8000	658.2000	15687.0000	88.42%
4	15:35:15	95.59%	0.0599	T 2692.4000	2714.7000	2748.6000	653.4300	15859.0000	89.38%
5	15:35:52	95.07%	0.0602	T 2735.2000	2768.8000	2777.7000	653.5900	15752.0000	90.78%
x		94.73%	0.0477	T 2673.1000	2709.2000	2725.6000	653.2600	15683.0000	88.09%
%RSD		1.16	24.7870	T 1.7837	1.7957	1.9375	0.5514	0.8617	2.58

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:33:25	1.3482	3.6031	1.5074	ID 18.1520	15.1780	434.8400	593.2800	1.3046
2	15:34:02	1.2236	3.7006	1.6210	ID 18.1040	15.0140	433.1000	558.3300	1.1639
3	15:34:39	1.3035	3.7091	1.4984	ID 18.2710	15.1580	434.6100	560.3700	1.2192
4	15:35:15	1.3236	3.5182	1.4849	ID 18.0420	15.2080	433.7800	549.3400	1.2613
5	15:35:52	1.2824	3.6606	1.3934	ID 18.1600	15.1240	433.2500	555.9700	1.2020
x		1.2963	3.6383	1.5010	ID 18.1460	15.1360	433.9100	563.4600	1.2302
%RSD		3.6533	2.1751	5.4022	ID 0.4644	0.4962	0.1807	3.0495	4.4171

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:33:25	1.5132	5.4912	5.0730	9.3434	8.3376	-1.0677	-0.1987	0.8146
2	15:34:02	1.5779	5.5348	4.8630	9.6974	8.1393	-1.0950	-0.1807	1.2355
3	15:34:39	1.6293	5.2751	5.1821	9.3723	8.3944	-1.0691	-0.0775	0.3591
4	15:35:15	1.5760	5.3741	4.8803	9.4581	8.2990	-0.7536	-0.0962	0.5625
5	15:35:52	1.5729	5.6030	4.9251	9.5716	8.2359	-1.1542	0.0540	1.3694
x		1.5739	5.4556	4.9847	9.4886	8.2812	-1.0279	-0.0998	0.8682
%RSD		2.6150	2.3988	2.7660	1.5458	1.1847	15.3020	100.7900	49.5900

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:33:25	81.18%	0.2559	-0.2569	0.2668	0.0595	0.0494	81.37%	0.0000
2	15:34:02	84.10%	0.2670	0.3292	0.2819	0.0702	0.0598	83.55%	0.0000
3	15:34:39	85.73%	0.3167	0.4601	0.3159	0.0711	0.0737	85.73%	0.0000
4	15:35:15	87.37%	0.3558	0.2892	0.3577	0.0842	0.0756	87.11%	0.0000
5	15:35:52	87.73%	0.3221	1.0204	0.3249	0.0639	0.0749	88.92%	0.0000
x		85.22%	0.3035	0.3684	0.3095	0.0698	0.0667	85.34%	0.0000
%RSD		3.15	13.6360	123.8200	11.6280	13.3940	17.4180	3.47	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:33:25	2.9887	28.8080	29.4260	81.89%	-0.0044	-0.0135	4.4576	4.8722
2	15:34:02	2.9251	28.6560	29.1960	85.90%	0.0051	0.0046	4.3335	4.9435
3	15:34:39	3.0916	28.8020	29.1490	89.07%	0.0396	0.0237	4.6370	4.8803
4	15:35:15	3.0123	28.8520	29.3260	90.56%	0.0322	0.0297	4.5858	5.0257
5	15:35:52	2.9705	28.4900	28.1940	T 94.85%	0.0321	0.0206	4.3874	4.9985
x		2.9976	28.7220	29.0580	T 88.45%	0.0209	0.0130	4.4803	4.9440
%RSD		2.0512	0.5194	1.7040	T 5.52	92.5280	134.6600	2.8753	1.3891

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:33:25	4.6331	80.43%	0.0000
2	15:34:02	4.6918	84.65%	0.0000
3	15:34:39	4.7210	87.26%	0.0000
4	15:35:15	4.7377	89.28%	0.0000
5	15:35:52	4.7158	90.84%	0.0000
x		4.6999	86.49%	0.0000
%RSD		0.8686	4.75	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:39:21	95.42%	0.0122	T 8816.1000	9159.5000	9194.0000	2.3054	TM 81954.0000	87.52%
2	15:39:58	97.28%	0.0230	T 8821.0000	9123.4000	9233.0000	2.4084	TM 82498.0000	87.75%
3	15:40:35	99.03%	0.0279	T 8876.6000	9248.2000	9257.1000	2.6382	TM 82871.0000	89.10%
4	15:41:11	98.73%	0.0041	T 8944.6000	9261.1000	9288.9000	2.7342	TM 82628.0000	90.11%
5	15:41:48	97.30%	0.0144	T 9038.2000	9364.3000	9427.8000	2.6082	TM 83899.0000	89.09%
x		97.55%	0.0163	T 8899.3000	9231.3000	9280.2000	2.5389	TM 82770.0000	88.71%
%RSD		1.47	57.2940	T 1.0499	1.0227	0.9645	6.9455	TM 0.8640	1.21

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:39:21	0.2340	-0.0890	0.3394	ID 0.0475	2.1359	9.2099	738.3800	0.2756
2	15:39:58	0.2346	0.4530	0.4082	ID 0.1850	2.1555	7.2546	700.5800	0.2439
3	15:40:35	0.1741	0.0771	0.3022	ID 0.1302	2.1856	5.7902	681.4500	0.2385
4	15:41:11	0.1874	0.0256	0.3160	ID 0.1771	2.1873	6.3116	651.6900	0.2710
5	15:41:48	0.1932	0.3830	0.2824	ID 0.1923	2.1804	4.5759	614.6700	0.2628
x		0.2047	0.1699	0.3296	ID 0.1464	2.1689	6.6284	677.3500	0.2584
%RSD		13.6540	138.6500	14.7330	ID 41.2290	1.0358	26.2090	6.9515	6.3593

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:39:21	4.7914	5.2652	5.5644	TM 5002.8000	1.7718	4.0314	4.6387	3.5216
2	15:39:58	4.5083	5.2276	5.5451	T 4984.8000	2.2613	3.7358	5.8208	2.9453
3	15:40:35	4.6392	5.2171	5.6939	T 4971.6000	2.0355	3.3145	5.2659	1.8188
4	15:41:11	4.4838	5.3425	5.5801	T 4948.6000	2.0608	2.9489	4.3296	3.3652
5	15:41:48	4.5151	5.0863	5.5978	TM 5003.3000	2.6022	2.7923	5.8029	2.1793
x		4.5876	5.2277	5.5962	TM 4982.2000	2.1463	3.3646	5.1716	2.7660
%RSD		2.8108	1.7817	1.0355	TM 0.4617	14.3770	15.4820	13.0500	26.8330

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:39:21	83.45%	0.0317	1.1564	0.0303	28.1260	27.9490	83.52%	0.0000
2	15:39:58	85.38%	0.0846	1.4878	0.0817	27.9580	28.3110	85.14%	0.0000
3	15:40:35	86.16%	0.0845	0.7122	0.0988	28.4160	28.1450	86.20%	0.0000
4	15:41:11	87.07%	0.1092	0.3691	0.1096	28.0410	27.8440	87.41%	0.0000
5	15:41:48	87.19%	0.0689	0.1105	0.0789	28.5940	27.5880	87.53%	0.0000
x		85.85%	0.0758	0.7672	0.0799	28.2270	27.9670	85.96%	0.0000
%RSD		1.78	37.6760	73.2590	38.0710	0.9507	0.9932	1.95	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:39:21	20.4000	30.6490	31.0510	84.03%	0.3997	0.4098	19.4770	21.5460
2	15:39:58	20.6500	31.6930	30.5330	86.09%	0.4188	0.4225	19.6760	20.9990
3	15:40:35	20.0540	30.9300	30.5940	87.52%	0.4383	0.4192	19.3660	21.5780
4	15:41:11	20.6240	31.0860	30.8810	88.41%	0.4319	0.4075	19.5230	21.2570
5	15:41:48	20.5010	31.6260	30.1040	89.66%	0.4356	0.4170	19.5730	21.0570
x		20.4460	31.1970	30.6330	87.14%	0.4248	0.4152	19.5230	21.2870
%RSD		1.1779	1.4454	1.1851	2.49	3.7518	1.5284	0.5871	1.2621

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:39:21	20.3420	83.54%	0.0000
2	15:39:58	20.5020	86.23%	0.0000
3	15:40:35	20.3970	87.42%	0.0000
4	15:41:11	20.3940	88.75%	0.6666
5	15:41:48	20.4270	90.12%	0.0000
x		20.4120	87.21%	0.1333
%RSD		0.2861	2.88	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:45:18	95.05%	-0.0008	1799.6000	1778.2000	1774.5000	0.6485	15526.0000	85.52%
2	15:45:54	95.96%	0.0004	1847.6000	1818.8000	1812.2000	0.7483	15609.0000	87.60%
3	15:46:31	96.73%	0.0132	T 1840.8000	1849.5000	1851.3000	0.7941	15722.0000	88.79%
4	15:47:07	97.42%	0.0001	1897.2000	1869.9000	1859.9000	0.9426	15940.0000	89.15%
5	15:47:45	98.12%	0.0070	1884.4000	1853.6000	1890.7000	0.8603	15908.0000	90.65%
x		96.66%	0.0040	T 1853.9000	1834.0000	1837.7000	0.7988	15741.0000	88.34%
%RSD		1.25	150.0000	T 2.0823	1.9772	2.4528	13.9440	1.1513	2.17

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:45:18	0.1236	0.1088	0.0924	ID -0.0926	0.4430	2.5103	197.6900	0.0531
2	15:45:54	0.1046	-0.0049	0.0952	ID -0.0059	0.4430	1.2232	162.5900	0.0481
3	15:46:31	0.0782	0.0162	0.1062	ID -0.0573	0.4122	0.4703	152.0800	0.0602
4	15:47:07	0.0583	0.1503	0.1121	ID -0.1124	0.4531	0.2473	115.0400	0.0571
5	15:47:45	0.0833	0.1711	0.0821	ID -0.1659	0.4483	-1.8895	140.9400	0.0575
x		0.0896	0.0883	0.0976	ID -0.0868	0.4399	0.5123	153.6700	0.0552
%RSD		28.0510	89.5620	12.0950	ID 69.0040	3.6440	313.8100	19.7200	8.5137

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:45:18	1.1255	1.1846	1.1518	1095.8000	0.5562	-0.1627	1.1436	1.1328
2	15:45:54	1.0974	1.1403	1.2265	1102.7000	0.3540	-0.3231	0.7261	0.5704
3	15:46:31	1.1656	1.2178	1.3635	1098.0000	0.3474	-0.0805	0.6888	0.8226
4	15:47:07	1.0320	1.1388	1.3132	1104.2000	0.3984	-0.1945	1.0373	0.3656
5	15:47:45	1.0045	1.1707	1.1865	1084.9000	0.5021	-0.1472	1.0063	0.9384
x		1.0850	1.1704	1.2483	1097.1000	0.4316	-0.1816	0.9204	0.7660
%RSD		6.1103	2.8192	7.0617	0.6963	21.5840	49.2100	21.8820	39.4930

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:45:18	82.11%	0.0119	-1.6858	0.0120	5.6320	5.5990	81.80%	0.0000
2	15:45:54	84.32%	0.0388	0.3990	0.0327	5.7003	5.7383	85.15%	0.0000
3	15:46:31	86.37%	0.0626	-0.4841	0.0579	5.7872	5.7415	87.39%	0.0000
4	15:47:07	87.12%	0.0659	0.1355	0.0523	5.6913	5.6737	88.57%	0.0000
5	15:47:45	88.06%	0.0543	-0.3370	0.0511	5.5298	5.6354	88.81%	0.0000
x		85.60%	0.0467	-0.3945	0.0412	5.6681	5.6776	86.34%	0.0000
%RSD		2.79	47.3070	203.9600	45.8530	1.6781	1.1051	3.39	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:45:18	4.1070	6.1630	6.3715	79.57%	0.0500	0.0420	3.7632	4.2411
2	15:45:54	4.1221	6.5670	6.4547	83.75%	0.0495	0.0591	3.8368	4.0981
3	15:46:31	4.1397	6.3977	6.0777	86.39%	0.0522	0.0607	3.8701	4.2493
4	15:47:07	4.1394	5.8812	5.9284	88.04%	0.0845	0.0558	3.8251	4.2436
5	15:47:45	4.2306	6.9018	6.0763	89.54%	0.0427	0.0563	3.8401	4.1562
x		4.1478	6.3821	6.1817	85.46%	0.0558	0.0548	3.8271	4.1977
%RSD		1.1637	6.0863	3.5868	4.60	29.5000	13.5120	1.0283	1.6107

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:45:18	4.0015	82.06%	0.0000
2	15:45:54	3.9914	85.98%	0.0000
3	15:46:31	4.0182	89.12%	0.0000
4	15:47:07	4.0520	91.46%	0.0000
5	15:47:45	4.0188	92.50%	0.0000
x		4.0164	88.22%	0.0000
%RSD		0.5737	4.83	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:19	94.01%	0.0186	TM 29126.0000	TM 28719.0000	TM 29132.0000	115.7400	TM 125280.0000	87.29%
2	15:51:58	95.86%	0.0221	TM 29599.0000	TM 29326.0000	TM 29487.0000	115.1300	TM 126240.0000	88.92%
3	15:52:35	96.55%	-0.0012	TM 30044.0000	TM 29449.0000	TM 29293.0000	114.0800	TM 126670.0000	91.09%
4	15:53:11	97.38%	0.0129	TM 30131.0000	TM 29640.0000	TM 29635.0000	114.2300	TM 127440.0000	92.09%
5	15:53:48	97.69%	0.0255	TM 30200.0000	TM 29663.0000	TM 30048.0000	115.3200	TM 129780.0000	91.52%
x		96.30%	0.0156	TM 29820.0000	TM 29360.0000	TM 29519.0000	114.9000	TM 127080.0000	90.18%
%RSD		1.52	67.2310	TM 1.5205	TM 1.3079	TM 1.1920	0.6250	TM 1.3377	2.23

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:19	0.8087	2.1753	0.5976	ID 33.5090	275.6600	832.5100	1964.3000	1.6446
2	15:51:58	0.7166	2.1267	0.5777	ID 34.1080	277.7200	845.8300	1836.2000	1.5644
3	15:52:35	0.7863	2.2908	0.5937	ID 34.0850	276.3800	845.9900	1778.2000	1.5355
4	15:53:11	0.7337	2.3776	0.5759	ID 34.0560	276.1100	843.9100	1679.2000	1.5485
5	15:53:48	0.7491	2.2231	0.5577	ID 33.9050	278.4400	850.0100	1662.9000	1.5267
x		0.7589	2.2387	0.5805	ID 33.9330	276.8600	843.6500	1784.2000	1.5639
%RSD		4.9960	4.4002	2.7415	ID 0.7365	0.4222	0.7836	6.9165	3.0215

Run	Time	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:19	5.6545	1.9733	2.6125	144.8500	5.9579	-1.4176	0.4884	-0.1875
2	15:51:58	5.6326	2.0696	2.5918	145.8700	5.7920	-1.2340	-0.0269	0.6895
3	15:52:35	5.6848	2.0534	2.2103	142.8800	5.6228	-1.7051	0.1540	0.0416
4	15:53:11	5.2688	2.0310	2.4145	143.0600	5.8159	-1.7600	0.3332	0.6921
5	15:53:48	5.7570	2.0906	2.2782	144.2600	5.5365	-1.1586	-0.0653	0.6607
x		5.5995	2.0436	2.4215	144.1800	5.7450	-1.4550	0.1767	0.3793
%RSD		3.4066	2.2007	7.4645	0.8659	2.8989	18.6220	133.4000	110.9700

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:19	83.45%	0.0624	0.2444	0.0577	0.0538	0.0522	82.67%	0.0000
2	15:51:58	86.18%	0.0567	0.6354	0.0719	0.0637	0.0540	86.15%	0.0000
3	15:52:35	87.96%	0.0700	0.7365	0.0609	0.0598	0.0593	88.40%	0.0000
4	15:53:11	88.71%	0.0658	2.1545	0.0767	0.0432	0.0492	88.88%	0.0000
5	15:53:48	89.50%	0.0640	0.9472	0.0683	0.0702	0.0433	89.82%	0.0000
x		87.16%	0.0638	0.9436	0.0671	0.0581	0.0516	87.18%	0.0000
%RSD		2.77	7.6283	76.6610	11.6210	17.7060	11.5250	3.28	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:19	0.4664	30.9310	30.8500	84.36%	-0.0264	-0.0284	1.5438	1.5935
2	15:51:58	0.5384	30.6720	30.1530	88.63%	-0.0260	-0.0277	1.5037	1.6610
3	15:52:35	0.5095	29.8130	30.2370	91.10%	-0.0303	-0.0257	1.5612	1.6253
4	15:53:11	0.5091	29.9830	30.1610	T 95.28%	-0.0334	-0.0253	1.5398	1.6190
5	15:53:48	0.4976	30.9750	30.0840	93.41%	-0.0335	-0.0276	1.3713	1.4948
x		0.5042	30.4750	30.2970	T 90.56%	-0.0299	-0.0270	1.5040	1.5987
%RSD		5.1462	1.7802	1.0360	T 4.71	12.1640	5.0784	5.1227	3.9356

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:51:19	1.5621	82.36%	0.0000
2	15:51:58	1.5557	87.35%	0.0000
3	15:52:35	1.5675	89.32%	0.6623
4	15:53:11	1.5469	91.02%	0.6500
5	15:53:48	1.4953	92.07%	0.0000
x		1.5455	88.42%	0.2625
%RSD		1.8822	4.33	136.9400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:57:18	97.43%	-0.0041	1.5602	1.8697	1.2487	0.0254	14.8600	88.61%
2	15:57:55	97.35%	0.0030	2.5414	2.5387	2.7970	0.0558	19.0510	89.73%
3	15:58:31	96.91%	-0.0127	4.0368	4.8648	3.8377	0.0185	25.8590	90.59%
4	15:59:08	97.93%	0.0028	3.9235	4.4171	3.7445	0.0694	21.5880	91.88%
5	15:59:45	98.12%	-0.0100	4.9519	4.5864	4.9636	0.0653	28.8770	92.56%
x		97.55%	-0.0042	3.4028	3.6553	3.3183	0.0469	22.0470	90.67%
%RSD		0.49	170.4700	39.4540	37.0720	41.8480	49.9620	25.0520	1.76

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:57:18	0.0575	-0.0207	0.0374	ID -0.0940	0.0057	1.7640	3.8676	-0.0021
2	15:57:55	0.0831	-0.0281	0.0208	ID -0.0436	0.0164	1.2860	0.1026	-0.0008
3	15:58:31	0.0928	0.0507	0.0075	ID -0.0951	0.0198	-0.3841	-3.5726	-0.0009
4	15:59:08	0.0534	-0.0138	-0.0001	ID -0.0715	0.0086	-0.8806	0.1697	0.0010
5	15:59:45	0.0263	0.0127	0.0220	ID -0.0357	0.0355	-2.4542	-0.8103	0.0023
x		0.0626	0.0002	0.0175	ID -0.0680	0.0172	-0.1338	-0.0486	-0.0001
%RSD		41.9430	21445.0000	82.6870	ID 40.6730	67.9950	1274.2000	5483.0000	1670.9000

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:57:18	-0.0024	-0.0081	0.0155	1.0014	0.0145	-1.2216	-0.0603	0.7886
2	15:57:55	0.0066	-0.0294	0.0301	1.0494	-0.0035	-0.7559	-0.1133	0.4074
3	15:58:31	0.0094	-0.0313	-0.0013	1.1368	0.0069	-0.9801	-0.0309	0.1541
4	15:59:08	0.0000	-0.0173	0.0110	1.0655	-0.1150	-0.6815	-0.4613	1.4229
5	15:59:45	0.0118	-0.0276	0.0207	1.1441	-0.0015	-0.7531	-0.0495	-0.5876
x		0.0051	-0.0228	0.0152	1.0794	-0.0197	-0.8784	-0.1431	0.4371
%RSD		119.8600	43.0770	76.6620	5.6072	272.5500	25.3030	126.1900	170.6800

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:57:18	85.62%	-0.0032	-0.6246	-0.0022	-0.0013	0.0058	85.92%	0.0000
2	15:57:55	87.69%	-0.0029	0.1107	0.0064	0.0034	0.0046	87.90%	0.0000
3	15:58:31	88.68%	0.0090	-1.4242	0.0010	0.0055	0.0065	89.13%	0.0000
4	15:59:08	89.19%	0.0088	-0.1599	0.0037	0.0010	0.0084	89.98%	0.0000
5	15:59:45	90.07%	0.0081	-0.2887	0.0120	0.0079	-0.0003	90.77%	0.0000
x		88.25%	0.0040	-0.4773	0.0042	0.0033	0.0050	88.74%	0.0000
%RSD		1.93	162.2300	123.9500	129.4700	109.1600	65.5730	2.14	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:57:18	0.0318	-0.0051	0.0076	83.01%	-0.0324	-0.0310	0.0245	0.0123
2	15:57:55	0.0510	-0.0053	0.0194	86.28%	-0.0342	-0.0317	0.0254	0.0375
3	15:58:31	0.0271	-0.0055	0.0030	87.94%	-0.0344	-0.0277	0.0207	0.0121
4	15:59:08	0.0268	-0.0125	0.0029	89.15%	-0.0303	-0.0262	0.0252	0.0419
5	15:59:45	0.0411	-0.0056	0.0107	89.44%	-0.0250	-0.0285	0.0241	0.0229
x		0.0355	-0.0068	0.0087	87.16%	-0.0313	-0.0290	0.0240	0.0253
%RSD		29.2100	46.8410	77.8100	3.02	12.4250	7.8300	7.9962	54.8770

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	15:57:18	0.0261	86.06%	0.0000
2	15:57:55	0.0213	89.73%	0.0000
3	15:58:31	0.0201	91.70%	0.0000
4	15:59:08	0.0271	92.93%	0.6366
5	15:59:45	0.0213	92.70%	0.0000
x		0.0232	90.63%	0.1273
%RSD		13.7470	3.14	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:03:15	95.82%	1.0099	0.0512	0.0104	-0.0191	0.2743	2.4719	87.97%
2	16:03:52	97.17%	0.9485	0.4590	0.5365	0.4343	0.2220	3.1727	90.69%
3	16:04:28	97.94%	0.9819	1.0337	1.0587	1.1346	0.2425	7.3930	91.47%
4	16:05:05	98.51%	0.9265	0.9960	0.8562	1.0395	0.2531	8.1467	92.47%
5	16:05:42	100.24%	0.9708	1.8475	1.3500	1.4188	0.2778	9.3222	94.27%
x		97.94%	0.9675	0.8775	0.7624	0.8016	0.2539	6.1013	91.37%
%RSD		1.67	3.2905	77.2380	67.4730	72.6550	9.1033	50.5010	2.55

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:03:15	0.0713	4.6665	1.8588	ID -0.0501	0.9281	0.0756	-1.5067	0.8938
2	16:03:52	0.0580	4.5901	1.8122	ID -0.1372	0.9368	-2.8334	1.7126	0.9624
3	16:04:28	0.0460	4.6676	1.8895	ID -0.1479	0.8623	-1.8513	-0.1338	0.8631
4	16:05:05	0.0372	4.5686	1.8860	ID -0.1923	0.9739	-3.7432	-9.1620	0.9204
5	16:05:42	0.0460	4.6906	1.8104	ID -0.0927	0.8839	-4.2683	-5.2673	0.8797
x		0.0517	4.6367	1.8514	ID -0.1240	0.9170	-2.5241	-2.8714	0.9039
%RSD		25.6080	1.1594	2.0777	ID 43.8870	4.8263	68.1460	151.4800	4.3031

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:03:15	1.0559	1.8639	1.9796	2.3422	0.9222	3.4606	4.6749	0.3870
2	16:03:52	0.8669	1.8124	1.9469	2.2860	0.8385	3.6483	4.7496	0.7989
3	16:04:28	0.9575	1.8012	1.8972	2.3028	0.8222	3.5892	4.4544	0.2295
4	16:05:05	0.9498	1.9559	1.8610	2.3467	0.9090	3.9377	4.8891	-0.4856
5	16:05:42	1.0018	1.8347	1.8254	2.3319	0.9846	4.1336	5.2320	0.3371
x		0.9664	1.8536	1.9020	2.3219	0.8953	3.7539	4.8000	0.2534
%RSD		7.2315	3.3454	3.2844	1.1357	7.3779	7.3229	6.0037	183.9700

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:03:15	85.15%	0.9225	-1.0801	0.9292	0.9780	0.9036	85.42%	0.0000
2	16:03:52	88.09%	0.9491	-1.2964	0.9205	0.9504	0.9714	87.83%	0.0000
3	16:04:28	90.08%	0.9187	-0.9553	0.9284	0.9085	0.9712	90.38%	0.0000
4	16:05:05	91.10%	0.9469	0.2707	0.9272	1.0355	0.9110	92.00%	0.0000
5	16:05:42	92.00%	0.9495	0.0831	0.9621	1.0334	0.9537	93.73%	0.0000
x		89.28%	0.9373	-0.5956	0.9335	0.9812	0.9422	89.87%	0.0000
%RSD		3.06	1.6414	120.6800	1.7536	5.5638	3.4758	3.68	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:03:15	1.7765	9.4944	9.4321	82.37%	0.9096	0.8867	0.9456	0.9579
2	16:03:52	1.8446	9.1575	9.6668	86.51%	0.9130	0.8678	0.9626	0.9409
3	16:04:28	1.8914	9.0097	9.2377	T 92.53%	0.9548	0.8649	0.9364	0.9152
4	16:05:05	1.7916	9.6213	9.5866	91.01%	0.9341	0.8948	0.9584	0.9283
5	16:05:42	1.8607	9.2591	9.4164	93.11%	0.8930	0.8692	0.9289	0.9688
x		1.8330	9.3084	9.4679	T 89.11%	0.9209	0.8767	0.9464	0.9422
%RSD		2.6183	2.6692	1.7563	T 5.13	2.6003	1.5110	1.5056	2.2989

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:03:15	0.9319	85.36%	0.0000
2	16:03:52	0.9473	90.12%	0.0000
3	16:04:28	0.9238	93.28%	0.0000
4	16:05:05	0.9407	95.75%	0.0000
5	16:05:42	0.9457	97.19%	0.0000
x		0.9379	92.34%	0.0000
%RSD		1.0540	5.13	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:12	95.34%	248.9000	963.1800	971.1700	972.4600	240.3500	971.5000	87.86%
2	16:09:48	95.74%	247.5400	982.3500	1005.5000	978.2500	240.0700	963.5200	88.57%
3	16:10:25	95.92%	246.6100	981.1100	993.8600	984.6000	239.4900	979.1400	89.52%
4	16:11:02	97.22%	244.0400	976.4100	981.4100	975.3600	240.6500	995.6900	89.77%
5	16:11:39	96.08%	249.0700	988.8600	995.3200	1000.2000	244.4200	1006.9000	89.93%
x		96.06%	247.2300	978.3800	989.4500	982.1800	241.0000	983.3500	89.13%
%RSD		0.74	0.8296	0.9803	1.3466	1.1239	0.8138	1.8038	0.99

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:12	0.0649	242.1700	239.9300	ID 45.6290	235.8800	1004.2000	989.1300	237.9100
2	16:09:48	0.0413	241.8300	238.6500	ID 45.7960	238.4200	996.5100	986.6600	238.7500
3	16:10:25	0.0531	240.6600	238.8200	ID 44.4720	236.3000	1011.3000	970.9500	237.3200
4	16:11:02	0.0735	241.4300	240.2300	ID 45.3820	237.0700	1016.9000	988.8600	239.0700
5	16:11:39	0.0366	241.7200	238.5300	ID 45.3610	236.7000	1006.8000	968.1400	238.4300
x		0.0539	241.5600	239.2300	ID 45.3280	236.8700	1007.1000	980.7500	238.2900
%RSD		28.7970	0.2356	0.3287	ID 1.1289	0.4096	0.7612	1.0521	0.2903

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:12	244.1500	240.9700	241.6900	242.5700	242.9100	242.9700	243.0400	-0.0060
2	16:09:48	244.8100	238.4200	241.1800	245.7500	244.2700	246.3100	249.2600	0.0125
3	16:10:25	242.4900	238.4900	239.3900	241.9800	242.4800	242.7100	242.6700	0.1245
4	16:11:02	242.1500	239.5900	242.2400	245.7400	242.0200	242.3500	246.0700	0.5533
5	16:11:39	241.0900	238.7800	236.8700	242.5400	243.7900	241.9500	243.2300	1.5912
x		242.9400	239.2500	240.2800	243.7200	243.0900	243.2600	244.8600	0.4551
%RSD		0.6240	0.4473	0.9076	0.7653	0.3813	0.7192	1.1480	148.1400

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:12	86.07%	239.2900	-2.7921	242.5800	243.4500	243.5200	86.73%	0.0000
2	16:09:48	87.29%	241.3800	-2.1649	239.9200	245.2300	243.4400	88.07%	0.0000
3	16:10:25	87.84%	241.1800	0.3447	241.2400	245.5700	245.7000	88.12%	0.0000
4	16:11:02	87.52%	240.0800	0.9208	239.7100	243.1600	242.5600	89.42%	0.0000
5	16:11:39	88.88%	240.5700	1.6560	238.6300	244.7100	243.0800	89.76%	0.0000
x		87.52%	240.5000	-0.4071	240.4200	244.4200	243.6600	88.42%	0.0000
%RSD		1.16	0.3530	481.3700	0.6350	0.4377	0.4926	1.37	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:12	237.7400	246.5300	240.7400	85.44%	241.5100	236.1700	242.1700	241.4000
2	16:09:48	241.6700	240.9500	243.2800	87.50%	241.2600	236.3700	240.5000	240.7000
3	16:10:25	241.2000	246.5400	244.5400	87.73%	239.6400	234.1800	239.2300	239.6600
4	16:11:02	240.6300	240.8000	245.4400	88.71%	240.1000	233.9900	239.6100	239.1300
5	16:11:39	240.8100	243.0100	242.0400	89.46%	241.9200	235.7800	240.9800	242.0500
x		240.4100	243.5700	243.2100	87.77%	240.8800	235.3000	240.5000	240.5900
%RSD		0.6430	1.1687	0.7749	1.73	0.4027	0.4800	0.4838	0.4994

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:09:12	239.7700	88.54%	0.0000
2	16:09:48	238.9800	91.41%	0.0000
3	16:10:25	238.7500	92.78%	0.0000
4	16:11:02	238.0000	93.09%	0.0000
5	16:11:39	239.9500	93.36%	0.0000
x		239.0900	91.84%	0.0000
%RSD		0.3327	2.17	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:15:08	93.91%	0.0127	1.9186	1.1355	1.3057	0.0064	18.7590	85.73%
2	16:15:45	95.21%	0.0021	1.7408	1.0553	1.5713	-0.0120	16.4240	88.15%
3	16:16:21	96.74%	0.0318	2.0238	1.7178	2.2166	-0.0121	19.4560	89.62%
4	16:16:58	97.37%	0.0784	2.8174	1.5523	1.9397	0.1313	17.8680	90.81%
5	16:17:35	98.02%	0.0579	2.6777	2.7457	2.8839	0.1265	18.6060	91.24%
x		96.25%	0.0366	2.2357	1.6413	1.9835	0.0480	18.2220	89.11%
%RSD		1.74	86.3020	21.5010	41.2400	30.8360	154.6000	6.3262	2.51

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:15:08	0.0747	0.0211	-0.0034	ID -0.1898	0.0045	-2.9734	4.6393	0.0095
2	16:15:45	0.0565	-0.0068	-0.0030	ID -0.2966	0.0073	-4.7104	-0.1467	-0.0021
3	16:16:21	0.0354	0.0129	0.0123	ID -0.1789	0.0205	-4.7015	-0.2229	0.0134
4	16:16:58	0.0342	0.0377	0.0370	ID -0.1807	0.0534	-5.3302	-0.6049	0.0619
5	16:17:35	0.0228	0.0452	0.0426	ID -0.1541	0.0628	-5.9956	-1.7589	0.0675
x		0.0447	0.0220	0.0171	ID -0.2000	0.0297	-4.7422	0.3812	0.0300
%RSD		46.3240	93.4920	127.1100	ID 27.7810	90.4090	23.6890	646.9500	107.2500

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:15:08	0.0013	-0.0027	0.0935	1.2806	0.0264	-0.5957	-0.0918	0.3549
2	16:15:45	0.0196	0.0061	0.0580	1.1219	-0.0699	-0.9142	-0.2666	0.7953
3	16:16:21	0.0127	0.0227	0.0327	1.2086	-0.0234	-1.0025	-0.3648	-0.0885
4	16:16:58	0.0913	0.0703	0.1239	1.2736	0.1652	-1.0170	0.3666	-0.1998
5	16:17:35	0.1029	0.0488	0.1078	1.1810	-0.0201	-0.5259	-0.1638	-0.3549
x		0.0456	0.0290	0.0832	1.2131	0.0156	-0.8111	-0.1041	0.1014
%RSD		104.5800	104.3700	44.7970	5.4641	577.7700	28.7440	271.5800	462.6500

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:15:08	82.93%	0.0142	-1.1795	0.0200	0.0137	0.0124	82.52%	0.0000
2	16:15:45	85.55%	0.0127	-1.2332	0.0126	0.0156	0.0048	85.87%	0.0000
3	16:16:21	87.96%	0.0093	-0.8800	0.0194	0.0365	0.0315	87.84%	0.0000
4	16:16:58	88.93%	0.0367	-0.0517	0.0218	0.0637	0.0746	89.48%	0.0000
5	16:17:35	89.39%	0.0244	-1.2278	0.0338	0.0655	0.0778	90.10%	0.0000
x		86.95%	0.0194	-0.9145	0.0215	0.0390	0.0402	87.16%	0.0000
%RSD		3.10	57.3350	55.1030	35.8430	64.1480	85.1520	3.52	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:15:08	0.5015	0.0029	-0.0006	79.36%	-0.0099	-0.0083	0.0365	0.0554
2	16:15:45	0.4885	-0.0051	0.0202	82.66%	-0.0053	-0.0066	0.0368	0.0330
3	16:16:21	0.5053	0.0091	0.0277	85.31%	0.0080	0.0031	0.0562	0.0548
4	16:16:58	0.4667	0.0911	0.0852	T 90.86%	0.0554	0.0508	0.0955	0.0985
5	16:17:35	0.4426	0.0709	0.1056	88.78%	0.0640	0.0492	0.1234	0.1002
x		0.4809	0.0338	0.0476	T 85.39%	0.0225	0.0176	0.0697	0.0684
%RSD		5.4510	130.2800	95.3420	T 5.41	154.7700	169.3300	55.2020	43.3990

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:15:08	0.0439	81.98%	0.0000
2	16:15:45	0.0364	86.01%	0.0000
3	16:16:21	0.0577	88.73%	0.0000
4	16:16:58	0.1064	90.85%	0.0000
5	16:17:35	0.1146	92.21%	0.0000
x		0.0718	87.96%	0.0000
%RSD		50.4930	4.64	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:21:03	96.79%	0.0132	1968.6000	1944.8000	1972.8000	14.4390	16245.0000	87.45%
2	16:21:40	97.95%	-0.0000	T 1948.4000	1978.9000	1982.8000	14.3270	16461.0000	90.16%
3	16:22:17	99.78%	0.0094	T 1956.8000	1970.8000	1990.1000	14.2320	16545.0000	90.46%
4	16:22:53	99.19%	0.0207	2049.6000	2015.3000	2041.6000	14.4740	16642.0000	91.26%
5	16:23:30	100.04%	0.0134	T 1989.6000	2007.8000	1999.7000	14.5740	16662.0000	92.75%
x		98.75%	0.0113	T 1982.6000	1983.5000	1997.4000	14.4090	16511.0000	90.42%
%RSD		1.38	66.6090	T 2.0446	1.4426	1.3317	0.9211	1.0238	2.15

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:21:03	0.1456	0.1053	0.1224	ID 1.3007	5.7636	29.4230	194.0400	0.0688
2	16:21:40	0.1269	0.1909	0.0781	ID 1.2103	5.5963	27.4790	170.6700	0.0619
3	16:22:17	0.1609	0.0124	0.0955	ID 1.3589	5.6122	27.8990	165.5800	0.0761
4	16:22:53	0.0995	0.1497	0.1337	ID 1.2591	5.5664	28.3120	161.2800	0.0759
5	16:23:30	0.1139	0.2824	0.1064	ID 1.3843	5.5415	26.4700	142.7200	0.0753
x		0.1294	0.1481	0.1072	ID 1.3026	5.6160	27.9170	166.8600	0.0716
%RSD		18.9300	67.5940	20.4130	ID 5.4649	1.5469	3.8876	11.0860	8.6811

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:21:03	1.0528	2.1198	2.1777	1134.8000	0.8966	-0.4396	0.7858	0.8087
2	16:21:40	0.9854	2.1044	2.3119	1125.3000	1.0907	0.2523	1.6678	-1.0519
3	16:22:17	0.9073	2.1387	2.3227	1132.6000	1.0569	-0.4575	1.0776	0.1368
4	16:22:53	0.9797	2.1082	2.2231	1121.3000	0.9102	-0.4001	1.2273	0.7011
5	16:23:30	0.9938	2.0693	2.1882	1123.2000	0.8695	-0.3275	0.6741	0.8324
x		0.9838	2.1081	2.2447	1127.4000	0.9648	-0.2745	1.0865	0.2854
%RSD		5.2653	1.2083	3.0502	0.5284	10.4990	108.8200	36.1880	280.0700

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:21:03	85.38%	0.0258	0.6232	0.0344	5.6433	5.8635	85.71%	0.0000
2	16:21:40	87.64%	0.0208	-0.9024	0.0321	5.7000	5.7999	88.65%	0.0000
3	16:22:17	89.14%	0.0258	-0.4409	0.0338	6.0706	5.9900	90.11%	0.0000
4	16:22:53	90.16%	0.0414	1.2415	0.0433	5.9221	5.8969	90.80%	0.0000
5	16:23:30	91.51%	0.0489	0.7258	0.0492	6.1407	5.8357	92.62%	0.0000
x		88.77%	0.0326	0.2494	0.0386	5.8953	5.8772	89.58%	0.0000
%RSD		2.67	36.8350	356.0300	19.1290	3.7291	1.2328	2.89	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:21:03	4.7298	6.2146	6.2774	85.02%	0.0418	0.0520	30.6780	34.1440
2	16:21:40	4.5819	6.6569	6.6915	88.72%	0.0552	0.0510	31.0870	33.7620
3	16:22:17	4.6003	6.3478	6.6561	90.65%	0.0558	0.0697	31.5430	34.1700
4	16:22:53	4.4952	6.4465	6.4907	92.96%	0.0826	0.0757	31.2080	34.0060
5	16:23:30	4.7850	6.4921	6.6072	93.54%	0.0877	0.0713	31.0800	34.3590
x		4.6384	6.4316	6.5446	90.18%	0.0646	0.0639	31.1190	34.0880
%RSD		2.5280	2.5641	2.5591	3.84	30.4100	18.0710	0.9964	0.6506

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:21:03	32.3710	87.93%	0.0000
2	16:21:40	32.4440	91.88%	0.0000
3	16:22:17	32.9150	93.73%	0.0000
4	16:22:53	32.5880	95.74%	0.6179
5	16:23:30	32.7270	97.39%	0.0000
x		32.6090	93.34%	0.1236
%RSD		0.6722	3.92	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:58	97.22%	0.0088	T 4749.7000	4805.6000	4846.3000	35.7810	M 41459.0000	87.25%
2	16:27:35	98.77%	0.0125	T 4806.2000	4943.3000	4958.8000	35.7610	M 41724.0000	88.51%
3	16:28:12	98.99%	0.0124	T 4794.4000	4923.8000	4916.1000	35.4320	M 42040.0000	89.24%
4	16:28:48	98.45%	-0.0015	T 4890.8000	4922.9000	4997.1000	35.6820	M 42064.0000	89.97%
5	16:29:25	99.28%	0.0137	T 4864.3000	4964.2000	4976.1000	35.1030	M 42109.0000	90.99%
x		98.54%	0.0092	T 4821.1000	4912.0000	4938.9000	35.5520	M 41879.0000	89.19%
%RSD		0.81	68.1250	T 1.1716	1.2585	1.2088	0.8065	M 0.6681	1.59

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:58	0.2888	0.2322	0.2697	ID 3.3345	13.6000	82.1380	475.6600	0.1809
2	16:27:35	0.3065	0.3751	0.3046	ID 3.4326	13.8140	81.7220	443.0700	0.1711
3	16:28:12	0.2089	-0.0671	0.2944	ID 3.5460	13.8120	81.5170	427.1400	0.1729
4	16:28:48	0.2528	0.1541	0.3338	ID 3.4453	13.5850	80.3650	408.6600	0.1875
5	16:29:25	0.2352	0.2805	0.3306	ID 3.3414	13.5290	77.9010	388.5400	0.1660
x		0.2584	0.1950	0.3066	ID 3.4200	13.6680	80.7280	428.6100	0.1757
%RSD		15.3040	85.6390	8.6765	ID 2.5389	0.9881	2.1203	7.7632	4.8467

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:58	2.5425	5.0680	5.2615	2825.8000	2.2052	1.1396	2.9934	0.4989
2	16:27:35	2.4899	4.9377	5.2655	2825.5000	2.2121	1.1313	2.5597	2.1197
3	16:28:12	2.4978	5.1309	5.2568	2841.5000	2.1862	1.0747	2.2764	1.8452
4	16:28:48	2.5068	4.9959	5.1972	2821.3000	2.3873	1.5648	2.7235	1.1665
5	16:29:25	2.3696	5.1856	5.1860	2811.8000	2.2503	1.1461	2.6761	1.2501
x		2.4813	5.0636	5.2334	2825.2000	2.2482	1.2113	2.6458	1.3761
%RSD		2.6439	1.9717	0.7351	0.3803	3.6095	16.4810	9.8497	45.9930

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:58	84.36%	0.0647	-0.3849	0.0677	14.5360	14.5500	84.16%	0.0000
2	16:27:35	85.94%	0.0591	0.9873	0.0689	14.4100	14.6650	87.01%	0.0000
3	16:28:12	86.91%	0.0645	-0.9014	0.0667	14.4750	14.5040	87.87%	0.0000
4	16:28:48	87.75%	0.0627	0.1532	0.0673	14.5250	14.5640	88.18%	0.0000
5	16:29:25	88.68%	0.0605	-0.6017	0.0556	14.7950	14.7240	89.09%	0.0000
x		86.73%	0.0623	-0.1495	0.0652	14.5480	14.6010	87.26%	0.0000
%RSD		1.92	3.9275	497.0400	8.3441	1.0069	0.6180	2.16	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:58	11.2800	16.7900	16.5180	84.47%	0.1755	0.1775	78.3200	86.0880
2	16:27:35	11.0120	15.9020	16.8230	86.85%	0.1890	0.1894	77.4190	85.8050
3	16:28:12	11.2070	16.5220	16.8090	88.58%	0.2033	0.1626	78.4980	86.2170
4	16:28:48	11.3370	16.4630	16.9610	89.74%	0.1911	0.1694	77.8730	86.0170
5	16:29:25	11.2610	17.4760	16.4630	90.47%	0.1846	0.1737	78.8590	86.5310
x		11.2190	16.6300	16.7150	88.02%	0.1887	0.1745	78.1940	86.1320
%RSD		1.1130	3.4434	1.2798	2.74	5.3623	5.7236	0.7162	0.3114

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:26:58	82.3380	85.77%	0.0000
2	16:27:35	82.0570	88.92%	0.0000
3	16:28:12	82.6600	90.78%	0.0000
4	16:28:48	82.1920	91.85%	0.0000
5	16:29:25	83.1500	92.48%	0.0000
x		82.4790	89.96%	0.0000
%RSD		0.5299	3.00	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:32:54	95.91%	-0.0010	951.8600	958.6600	952.0600	7.2461	7990.6000	86.49%
2	16:33:30	97.15%	-0.0027	979.3200	988.3700	998.1900	7.4093	8158.9000	88.37%
3	16:34:07	98.57%	-0.0015	984.7200	991.4900	984.2100	7.4081	8192.4000	89.10%
4	16:34:44	98.18%	0.0042	998.9100	1005.0000	1008.8000	7.4026	8128.6000	90.38%
5	16:35:20	99.80%	-0.0018	1006.6000	997.6700	999.2100	7.4612	8283.5000	91.67%
x		97.92%	-0.0006	984.2900	988.2300	988.5000	7.3855	8150.8000	89.20%
%RSD		1.50	493.1200	2.1487	1.7919	2.2442	1.1025	1.3096	2.21

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:32:54	0.1282	0.1076	0.0846	ID 0.4594	2.7440	16.8630	120.4500	0.0356
2	16:33:30	0.0870	0.0416	0.0757	ID 0.5017	2.8077	15.8670	94.5520	0.0269
3	16:34:07	0.1146	-0.0193	0.0537	ID 0.5868	2.8249	13.7020	104.2200	0.0421
4	16:34:44	0.0758	0.0969	0.0717	ID 0.5775	2.7725	13.9150	82.7080	0.0496
5	16:35:20	0.0848	0.0597	0.0740	ID 0.5869	2.7402	13.2470	82.2670	0.0435
x		0.0981	0.0573	0.0719	ID 0.5425	2.7779	14.7190	96.8380	0.0395
%RSD		22.6650	88.1450	15.7430	ID 10.8020	1.3592	10.6130	16.5630	21.8490

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:32:54	0.5871	1.0186	1.1472	566.3200	0.4754	-0.3619	0.5129	0.9550
2	16:33:30	0.4685	0.9978	1.1216	565.9700	0.4845	-0.8729	0.4408	-0.5467
3	16:34:07	0.6286	1.0272	1.1106	565.7900	0.2839	-0.4780	0.2069	1.5349
4	16:34:44	0.4959	1.0696	1.1478	566.6600	0.4638	-0.7484	0.5394	-0.1628
5	16:35:20	0.5251	1.0575	1.1419	562.9700	0.3525	-0.7095	0.4967	0.3343
x		0.5410	1.0341	1.1338	565.5400	0.4120	-0.6341	0.4393	0.4229
%RSD		12.1740	2.8237	1.4785	0.2607	21.6750	32.9150	30.6940	198.2000

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:32:54	82.56%	0.0091	0.2970	0.0081	2.9325	2.9119	83.20%	0.0000
2	16:33:30	85.24%	0.0123	0.0534	0.0156	2.9077	2.9877	85.83%	0.0000
3	16:34:07	87.48%	0.0216	-0.6499	0.0204	3.0920	2.8916	87.71%	0.0000
4	16:34:44	87.98%	0.0222	-0.0789	0.0263	3.0331	2.8788	88.82%	0.0000
5	16:35:20	89.14%	0.0343	0.6005	0.0299	2.8545	2.9261	90.71%	0.0000
x		86.48%	0.0199	0.0444	0.0201	2.9640	2.9192	87.26%	0.0000
%RSD		3.02	49.7020	1050.2000	42.9970	3.2587	1.4524	3.30	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:32:54	2.3159	3.3121	3.2297	80.86%	0.0130	0.0001	15.4250	16.9510
2	16:33:30	2.2770	3.3609	3.2159	84.39%	0.0206	0.0078	15.5380	16.9330
3	16:34:07	2.3201	3.2085	3.5502	87.17%	0.0019	0.0129	15.8070	17.0460
4	16:34:44	2.3588	3.4889	3.2496	89.18%	0.0187	0.0255	15.4200	17.0980
5	16:35:20	2.3186	3.1375	3.3079	T 93.15%	0.0133	0.0170	15.7780	17.1890
x		2.3181	3.3016	3.3107	T 86.95%	0.0135	0.0126	15.5940	17.0430
%RSD		1.2504	4.1281	4.1807	T 5.36	54.0980	75.6010	1.2058	0.6228

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:32:54	16.1670	83.82%	0.7058
2	16:33:30	16.3510	87.60%	0.0000
3	16:34:07	16.4470	90.69%	0.0000
4	16:34:44	16.3000	93.19%	0.0000
5	16:35:20	16.4590	94.50%	0.0000
x		16.3450	89.96%	0.1412
%RSD		0.7298	4.81	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:38:50	97.59%	-0.0042	0.3329	0.1511	0.5238	0.0022	6.5806	89.28%
2	16:39:26	97.84%	0.0057	0.5943	0.5290	0.6352	0.0241	3.8778	91.62%
3	16:40:03	98.70%	-0.0086	0.7930	0.8541	0.7490	-0.0034	6.7902	92.61%
4	16:40:39	99.79%	0.0051	0.7882	0.4646	0.7782	0.0280	5.1388	93.54%
5	16:41:16	100.55%	0.0049	0.8877	1.3984	0.5293	0.0568	2.1072	93.81%
x		98.90%	0.0006	0.6792	0.6795	0.6431	0.0215	4.8989	92.17%
%RSD		1.28	1130.4000	32.5420	69.6320	18.5160	110.9900	39.9200	1.99

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:38:50	0.0774	-0.0201	-0.0400	ID -0.1792	0.0059	-2.0882	-1.4863	0.0033
2	16:39:26	0.0802	0.0200	-0.0017	ID -0.1703	0.0041	-4.0856	-3.5375	0.0030
3	16:40:03	0.0555	-0.0422	-0.0265	ID -0.0771	-0.0017	-3.2585	-6.4034	0.0061
4	16:40:39	0.0422	0.0290	-0.0128	ID -0.1765	-0.0013	-4.1095	-6.8099	0.0054
5	16:41:16	0.0724	0.0543	-0.0190	ID -0.1186	-0.0009	-4.4088	-6.9224	-0.0011
x		0.0656	0.0082	-0.0200	ID -0.1443	0.0012	-3.5901	-5.0319	0.0033
%RSD		24.6570	473.0800	71.9760	ID 31.2160	289.0000	26.2450	48.0880	84.8940

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:38:50	0.0005	-0.0330	-0.0009	0.6482	-0.0668	-0.9783	-0.3655	0.6863
2	16:39:26	-0.0030	-0.0308	0.0388	0.6828	-0.0926	-1.1166	-0.3285	0.8545
3	16:40:03	0.0176	-0.0351	0.0078	0.7117	0.0142	-0.9748	0.0301	-0.4203
4	16:40:39	-0.0003	-0.0367	0.0398	0.7589	-0.0325	-0.9149	-0.0675	0.0341
5	16:41:16	0.0084	-0.0073	0.0024	0.7720	-0.0797	-1.0763	-0.4850	0.2076
x		0.0046	-0.0286	0.0176	0.7147	-0.0515	-1.0122	-0.2433	0.2724
%RSD		181.7000	42.3590	114.0800	7.2341	83.5410	8.1182	88.7020	188.1500

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:38:50	87.73%	-0.0020	0.0520	0.0025	0.0011	-0.0015	87.74%	0.0000
2	16:39:26	89.71%	-0.0001	-0.1575	0.0004	0.0056	0.0063	91.07%	0.0000
3	16:40:03	91.12%	0.0006	0.0926	0.0071	0.0010	0.0022	92.70%	0.0000
4	16:40:39	91.35%	0.0045	-0.1673	0.0048	0.0055	0.0032	93.20%	0.0000
5	16:41:16	92.00%	0.0031	0.5355	0.0115	0.0009	0.0043	93.58%	0.0000
x		90.38%	0.0012	0.0710	0.0053	0.0028	0.0029	91.66%	0.0000
%RSD		1.88	210.3000	401.6000	81.8710	88.7130	99.8070	2.61	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:38:50	0.0360	0.0018	0.0072	86.22%	-0.0149	-0.0201	0.0071	0.0126
2	16:39:26	0.0506	-0.0125	0.0068	90.02%	-0.0174	-0.0174	0.0185	0.0050
3	16:40:03	0.0385	-0.0057	0.0218	91.88%	-0.0161	-0.0183	0.0212	0.0197
4	16:40:39	0.0350	0.0075	0.0026	93.20%	-0.0155	-0.0162	0.0088	0.0267
5	16:41:16	0.0490	-0.0058	-0.0049	93.72%	-0.0170	-0.0131	0.0088	0.0223
x		0.0418	-0.0029	0.0067	91.01%	-0.0162	-0.0170	0.0129	0.0173
%RSD		17.6810	263.8300	145.7600	3.33	6.3452	15.2420	50.4060	49.5570

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:38:50	0.0076	90.02%	0.0000
2	16:39:26	0.0137	94.08%	0.0000
3	16:40:03	0.0197	96.74%	0.0000
4	16:40:39	0.0143	97.96%	0.0000
5	16:41:16	0.0184	97.75%	0.0000
x		0.0147	95.31%	0.0000
%RSD		32.1500	3.50	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:44:46	96.94%	0.9776	0.0630	-0.0902	-0.2342	0.2519	1.7722	87.93%
2	16:45:23	97.83%	0.9451	0.0856	0.0527	0.0588	0.2789	0.4485	89.44%
3	16:45:59	97.71%	1.0353	0.2106	0.2418	0.3044	0.4077	4.1839	91.31%
4	16:46:36	98.84%	0.9762	0.4213	0.4764	0.4233	0.4051	2.6232	91.72%
5	16:47:13	99.49%	0.9618	0.2714	0.2351	0.3793	0.3444	1.2692	91.79%
x		98.16%	0.9792	0.2104	0.1832	0.1863	0.3376	2.0594	90.44%
%RSD		1.02	3.4749	69.5010	117.0500	147.0900	21.1030	69.2390	1.88

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:44:46	0.0601	4.7708	1.8928	ID -0.1939	0.9230	-2.3457	3.4799	0.9259
2	16:45:23	0.0484	4.6795	1.7419	ID -0.1625	0.9052	-1.6045	-0.2576	0.9186
3	16:45:59	0.0275	4.7000	1.9518	ID -0.1250	0.8765	-1.4694	0.4457	0.8288
4	16:46:36	0.0131	4.7090	1.8432	ID -0.1447	0.9659	-2.2338	2.7718	0.8707
5	16:47:13	0.0379	4.5420	1.8824	ID -0.0947	0.8644	-2.7171	-2.6583	0.9553
x		0.0374	4.6803	1.8624	ID -0.1442	0.9070	-2.0741	0.7563	0.8999
%RSD		48.6930	1.8043	4.1767	ID 26.0150	4.4342	25.2710	325.6500	5.5593

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:44:46	0.9333	1.8541	1.9194	2.3681	0.9855	3.9992	4.8181	-0.0102
2	16:45:23	1.0182	1.8547	1.9453	2.2179	0.8318	4.1392	5.0700	0.0216
3	16:45:59	0.9667	1.9079	1.9204	2.3516	0.7469	4.3474	4.2486	1.1458
4	16:46:36	0.8849	1.9067	1.8431	2.3788	0.9072	3.9445	4.7221	0.8257
5	16:47:13	0.9662	1.9015	1.8733	2.3769	0.9169	4.5984	4.8529	0.5884
x		0.9539	1.8850	1.9003	2.3387	0.8777	4.2057	4.7423	0.5143
%RSD		5.1447	1.4861	2.1686	2.9231	10.3870	6.3973	6.4086	98.1540

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:44:46	84.37%	0.9159	-1.6543	0.9072	0.9248	0.9123	84.77%	0.0000
2	16:45:23	86.93%	0.9712	-0.6114	0.9296	0.9242	0.9159	87.01%	0.0000
3	16:45:59	87.97%	0.9261	-0.2811	0.9406	0.9742	0.9457	88.58%	0.0000
4	16:46:36	88.84%	0.9553	0.5985	0.9494	0.9011	0.9347	89.28%	0.0000
5	16:47:13	89.56%	0.9585	-0.0144	0.9628	0.9405	0.9520	89.95%	0.0000
x		87.53%	0.9454	-0.3926	0.9379	0.9330	0.9321	87.92%	0.0000
%RSD		2.31	2.4678	212.2700	2.2421	2.8951	1.8913	2.35	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:44:46	1.7518	9.6847	9.2986	81.77%	0.9252	0.8577	0.9733	0.9600
2	16:45:23	1.8099	9.7460	9.3370	84.51%	0.8912	0.8594	0.9693	0.9483
3	16:45:59	1.9534	9.7776	9.7285	86.21%	0.8645	0.8990	0.9000	0.9394
4	16:46:36	1.9544	9.7916	9.2086	87.45%	0.8967	0.8589	0.9462	0.9243
5	16:47:13	1.9060	9.4844	9.3907	88.47%	0.9095	0.8870	1.0145	0.9751
x		1.8751	9.6969	9.3927	85.68%	0.8974	0.8724	0.9607	0.9494
%RSD		4.8324	1.2964	2.1200	3.08	2.5149	2.2129	4.3607	2.0425

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:44:46	0.9420	84.87%	0.0000
2	16:45:23	0.9430	88.22%	0.0000
3	16:45:59	0.9389	89.48%	0.0000
4	16:46:36	0.9123	90.92%	0.0000
5	16:47:13	0.9431	91.94%	0.0000
x		0.9359	89.09%	0.0000
%RSD		1.4177	3.08	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:50:43	95.48%	244.4400	960.6400	958.8900	964.0700	237.5200	960.1700	86.89%
2	16:51:19	96.49%	244.4600	977.8900	967.5400	969.0900	241.3000	975.2500	88.16%
3	16:51:56	97.23%	242.6000	975.0700	973.6300	991.3800	236.0500	963.2100	89.32%
4	16:52:32	96.98%	242.3600	987.5200	974.9400	979.5200	237.9600	975.8900	89.84%
5	16:53:09	97.59%	241.6900	993.0200	1002.3000	990.9200	239.2100	982.2200	90.49%
x		96.75%	243.1100	978.8300	975.4600	979.0000	238.4100	971.3500	88.94%
%RSD		0.85	0.5216	1.2748	1.6694	1.2686	0.8270	0.9563	1.61

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:50:43	0.0614	240.1200	237.2400	ID 44.8610	237.9100	996.1800	978.3200	237.6200
2	16:51:19	0.0564	241.6900	238.5600	ID 45.3260	236.7700	1001.1000	968.9000	237.4400
3	16:51:56	0.0325	240.2700	238.9500	ID 46.0300	236.4900	1002.3000	988.1900	238.4000
4	16:52:32	0.0304	239.1000	238.1300	ID 45.6860	237.3900	1008.6000	972.8900	238.5300
5	16:53:09	0.0486	238.7400	236.2800	ID 45.8110	236.6400	1013.8000	971.5000	236.5600
x		0.0458	239.9900	237.8300	ID 45.5430	237.0400	1004.4000	975.9600	237.7100
%RSD		30.3940	0.4819	0.4525	ID 1.0079	0.2504	0.6835	0.7845	0.3357

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:50:43	243.6800	237.4200	243.5200	241.0100	242.3500	245.0000	245.0500	0.2629
2	16:51:19	242.8900	239.4500	242.0900	244.0700	242.1800	241.5900	245.5700	-0.0349
3	16:51:56	239.7600	238.9100	240.3100	243.1500	241.0900	244.7300	241.0000	0.8345
4	16:52:32	239.7200	237.9600	239.4600	243.9200	239.4500	241.2800	240.0800	1.1911
5	16:53:09	238.8700	238.3800	236.9700	243.6500	240.6200	239.5300	244.3200	0.4381
x		240.9900	238.4200	240.4700	243.1600	241.1400	242.4300	243.2000	0.5383
%RSD		0.8911	0.3328	1.0435	0.5147	0.4933	0.9749	1.0245	89.4900

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:50:43	84.87%	240.3500	-0.3959	239.1900	242.8700	241.9500	84.36%	0.0000
2	16:51:19	86.77%	239.3900	0.5590	239.4400	244.1000	242.1000	87.40%	0.0000
3	16:51:56	87.53%	239.9300	-1.0567	239.6900	243.5500	242.7200	88.94%	0.0000
4	16:52:32	88.66%	239.3900	-1.9408	239.5200	243.4300	242.1400	90.03%	0.0000
5	16:53:09	90.10%	238.6900	3.7477	237.6300	240.8200	241.3400	91.66%	0.0000
x		87.59%	239.5500	0.1827	239.0900	242.9500	242.0500	88.48%	0.0000
%RSD		2.25	0.2617	1200.4000	0.3502	0.5222	0.2043	3.14	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:50:43	236.9500	243.4200	240.9900	82.26%	240.2200	234.8700	241.3100	240.9400
2	16:51:19	237.9400	243.6600	241.7500	86.24%	240.1800	234.6200	241.1400	240.5000
3	16:51:56	239.8300	242.1500	242.0600	88.38%	240.6400	234.2300	240.4500	240.2000
4	16:52:32	241.3100	240.4100	242.2100	90.02%	241.8600	236.2800	240.0200	241.5800
5	16:53:09	241.3900	240.3100	240.4100	90.95%	240.3100	234.0900	239.0600	240.9800
x		239.4800	241.9900	241.4800	87.57%	240.6400	234.8200	240.4000	240.8400
%RSD		0.8326	0.6597	0.3169	3.96	0.2924	0.3714	0.3794	0.2183

Run	Time	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L
1	16:50:43	239.1100	85.44%	0.0000
2	16:51:19	238.8700	90.18%	0.6560
3	16:51:56	238.2200	92.46%	0.0000
4	16:52:32	238.8100	94.13%	0.0000
5	16:53:09	238.2900	96.15%	0.0000
x		238.6600	91.67%	0.1312
%RSD		0.1638	4.49	223.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:40	96.56%	0.0017	0.0824	-0.2386	-0.2347	0.0369	-2.0052	88.92%
2	16:57:17	97.52%	0.0143	0.1399	0.4416	0.2686	0.0583	2.4290	89.89%
3	16:57:53	97.85%	0.0482	0.6115	0.3395	0.4727	0.1270	3.3675	90.85%
4	16:58:30	98.93%	0.1176	1.9692	1.7782	1.6322	0.3714	10.1610	90.79%
5	16:59:07	99.10%	0.1382	1.9402	2.1927	1.9474	0.4002	9.0683	91.91%
x		97.99%	0.0640	0.9487	0.9027	0.8172	0.1988	4.6042	90.47%
%RSD		1.07	95.6030	99.2050	114.3700	113.9300	87.6750	109.0100	1.24

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:40	0.0507	-0.0005	-0.0208	ID -0.0941	-0.0039	-3.9766	-2.6608	0.0013
2	16:57:17	0.0574	-0.0441	-0.0563	ID -0.1411	0.0143	-5.1796	-2.2710	0.0100
3	16:57:53	0.0295	0.0108	-0.0049	ID -0.1348	0.0311	-4.2597	-1.2071	0.0407
4	16:58:30	0.0720	0.1355	0.1385	ID -0.1582	0.1230	-4.2506	1.5164	0.1074
5	16:59:07	0.0595	0.1001	0.1173	ID -0.1561	0.1230	-5.1190	-0.1880	0.1371
x		0.0538	0.0403	0.0348	ID -0.1369	0.0575	-4.5571	-0.9621	0.0593
%RSD		29.0710	185.0400	251.2900	ID 18.8870	106.1900	12.1310	175.4800	101.5600

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:40	0.0225	0.0156	0.0575	0.5660	0.0181	-0.8295	0.0426	0.0025
2	16:57:17	0.0219	-0.0209	0.0378	0.6769	0.0780	-0.6707	0.1554	-1.1258
3	16:57:53	0.0765	0.0329	0.0887	0.7402	0.0325	-0.9448	0.0539	-0.0245
4	16:58:30	0.1036	0.1232	0.1675	1.0665	0.1148	-0.5885	-0.1308	0.6276
5	16:59:07	0.1772	0.1195	0.1828	1.0031	0.1655	-1.0510	0.3775	0.1027
x		0.0803	0.0541	0.1069	0.8105	0.0818	-0.8169	0.0997	-0.0835
%RSD		80.4450	119.1500	60.9800	26.5500	73.8700	23.2960	186.7700	766.3100

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:40	85.70%	0.0221	-0.3637	0.0154	0.0083	0.0017	86.67%	0.0000
2	16:57:17	87.84%	0.0172	-0.0729	0.0126	0.0176	0.0097	88.31%	0.0000
3	16:57:53	87.91%	0.0174	-0.3592	0.0276	0.0244	0.0349	89.11%	0.0000
4	16:58:30	88.82%	0.0738	-0.2187	0.0660	0.1236	0.1197	89.96%	0.0000
5	16:59:07	89.79%	0.0736	-0.2067	0.0710	0.1364	0.1103	90.54%	0.0000
x		88.01%	0.0408	-0.2442	0.0385	0.0620	0.0553	88.92%	0.0000
%RSD		1.72	73.7180	49.6910	72.7250	100.6400	101.3100	1.70	0.0000

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:40	0.4753	-0.0052	0.0158	83.61%	-0.0020	-0.0064	0.0144	0.0051
2	16:57:17	0.5187	0.0017	0.0112	86.46%	0.0040	0.0111	0.0163	0.0177
3	16:57:53	0.5056	0.0579	0.0311	87.37%	0.0442	0.0319	0.0698	0.0626
4	16:58:30	0.5468	0.1621	0.1301	87.96%	0.1741	0.1728	0.1450	0.1773
5	16:59:07	0.5087	0.1745	0.1879	88.98%	0.1665	0.1580	0.1710	0.1625
x		0.5110	0.0782	0.0752	86.88%	0.0773	0.0735	0.0833	0.0850
%RSD		5.0354	109.8200	105.6900	2.35	112.1100	115.9100	86.8240	94.7200

Run	Time	208Pb	209Bi	220Rn
		ug/L	ug/L	ug/L
1	16:56:40	0.0108	87.54%	0.0000
2	16:57:17	0.0213	89.76%	0.0000
3	16:57:53	0.0564	91.13%	0.0000
4	16:58:30	0.1495	92.25%	0.0000
5	16:59:07	0.1576	93.20%	0.0000
x		0.0791	90.78%	0.0000
%RSD		88.5710	2.44	0.0000

Mass Uncorrected ICPS

S0 07/10/2008 12:40:25

User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	12:41:02	268200.0200	15.8333	265.0042	30.0001	75.0003	805.0389	412.5102	646759.0300
2	12:41:39	270231.6000	13.3333	250.0038	35.0001	30.0001	837.5421	367.5081	654515.9600
3	12:42:15	274085.2700	10.0000	290.0051	25.0000	40.0001	897.5483	375.0084	658569.9300
4	12:42:52	271607.7700	15.0000	190.0022	55.0002	40.0001	877.5462	367.5081	663919.1400
5	12:43:29	273033.2400	10.0000	190.0022	40.0001	45.0001	967.5562	375.0084	661290.7400
x		271431.5800	12.8333	237.0035	37.0001	46.0001	877.0463	379.5087	657010.9600
%RSD		0.855	21.340	19.081	31.111	37.180	7.065	4.961	1.020

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	12:41:02	102.5006	192.5022	1687.6709	ID 3873.4000	207.5026	185737.0800	1497.6346	22.5000
2	12:41:39	75.0003	225.0030	1777.6896	ID 4010.9650	180.0019	184267.4900	1415.1201	45.0001
3	12:42:15	120.0009	162.5016	1625.1585	ID 4351.1356	172.5018	185913.4500	1342.6081	25.0000
4	12:42:52	97.5006	177.5019	1695.1724	ID 4015.9674	145.0013	186227.8600	1472.6301	40.0001
5	12:43:29	105.0007	137.5011	1765.1869	ID 4203.5599	155.0014	186419.5700	1382.6147	25.0000
x		100.0006	179.0020	1710.1757	ID 4091.0056	172.0018	185713.0900	1422.1215	31.5001
%RSD		16.298	18.306	3.645	ID 4.569	14.070	0.458	4.473	32.530

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	12:41:02	12.5000	232.5032	27.5000	97.5006	8.3333	914.2168	63.3336	56.6669
2	12:41:39	12.5000	217.5028	47.5001	107.5007	5.8333	962.5556	68.3336	49.1668
3	12:42:15	22.5000	235.0033	37.5001	100.0006	3.3333	953.3879	56.6669	52.5002
4	12:42:52	15.0000	180.0019	37.5001	95.0005	9.1667	1010.8946	61.6669	50.8335
5	12:43:29	20.0000	170.0017	52.5002	77.5004	7.5000	958.3884	66.6669	56.6669
x		16.5000	207.0026	40.5001	95.5006	6.8333	959.8887	63.3336	53.1668
%RSD		27.524	14.578	24.066	11.619	33.840	3.586	7.207	6.405

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	12:41:02	1053082.0000	40.0001	2.5000	28.7500	1.2500	2.5000	1213014.8000	27.5000
2	12:41:39	1071180.6000	37.5001	0.0000	21.2500	0.0000	3.7500	1233379.4000	12.5000
3	12:42:15	1081349.3000	31.2501	2.5000	17.5000	0.0000	2.5000	1247087.5000	32.5001
4	12:42:52	1092812.7000	46.2501	5.0000	10.0000	1.2500	2.5000	1257227.7000	22.5000
5	12:43:29	1098102.6000	46.2501	0.0000	20.0000	1.2500	6.2500	1252331.0000	30.0001
x		1079305.4000	40.2501	2.0000	19.5000	0.7500	3.5000	1240608.1000	25.0000
%RSD		1.666	15.744	104.583	34.698	91.287	46.566	1.436	31.623

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	12:41:02	15.0000	5.0000	2.5000	T 1908091.0000	127.5010	271.2544	32.5001	27.5000
2	12:41:39	7.5000	5.0000	7.5000	T 1944364.6000	126.2510	272.5045	32.5001	32.5001
3	12:42:15	5.0000	10.0000	2.5000	1918216.4000	122.5009	316.2560	50.0001	35.0001
4	12:42:52	15.0000	5.0000	2.5000	T 1977151.7000	110.0007	327.5064	37.5001	25.0000
5	12:43:29	7.5000	0.0000	2.5000	T 1961745.7000	120.0009	313.7559	22.5000	37.5001
x		10.0000	5.0000	3.5000	T 1941913.9000	121.2509	300.2554	35.0001	31.5001
%RSD		46.771	70.711	63.888	T 1.489	5.740	8.799	28.571	16.458

Run	Time	208Pb	209Bi	220Bkg
1	12:41:02	82.5004	1313843.0000	0.0000
2	12:41:39	87.5005	1346203.1000	0.0000
3	12:42:15	67.5003	1355957.3000	0.0000
4	12:42:52	80.0004	1371659.1000	0.0000
5	12:43:29	77.5004	1368867.3000	0.0000
x		79.0004	1351306.0000	0.0000
%RSD		9.388	1.725	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	12:46:55	263684.2900	1174.2494	1775.1891	225.0030	335.0067	5859.5593	455.0124	609444.1800
2	12:47:32	266223.9900	1151.7463	1780.1901	220.0029	265.0042	5894.5840	472.5134	622097.2700
3	12:48:09	268349.7300	1117.5749	1945.2270	195.0023	295.0052	6184.7942	512.5158	630732.8100
4	12:48:45	269297.0700	1155.9135	2085.2609	320.0061	310.0058	6347.4165	592.5211	643131.2600
5	12:49:22	270588.7500	1189.2515	2125.2710	255.0039	405.0098	6585.1008	647.5252	644006.3700
x		267628.7600	1157.7471	1942.2276	243.0037	322.0064	6174.2910	536.0176	629882.3800
%RSD		1.016	2.333	8.465	19.768	16.419	4.967	15.263	2.320

Run	Time	47Ti	51V	52Cr	53Cr	55Mn	56Fe	57Fe	59Co
1	12:46:55	140.0012	5731.9707	7225.6312	ID 3750.8439	7138.0558	177314.0600	1567.6474	7025.4602
2	12:47:32	145.0013	5907.0929	7315.7098	ID 3895.9105	7413.2960	180792.6100	1620.1575	7128.0472
3	12:48:09	110.0007	6302.3823	7355.7450	ID 3840.8849	7408.2915	182741.9500	1547.6437	7225.6312
4	12:48:45	150.0014	6304.8842	7550.9194	ID 3840.8849	7533.4036	183306.6500	1600.1536	7258.1595
5	12:49:22	97.5006	6319.8956	7683.5406	ID 3855.8919	7708.5637	184960.0800	1565.1470	7671.0291
x		128.5010	6113.2451	7426.3092	ID 3836.8832	7440.3221	181823.0700	1580.1498	7261.6654
%RSD		18.126	4.503	2.512	ID 1.384	2.801	1.610	1.856	3.391

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	12:46:55	1705.1744	4281.0994	1940.2258	1307.6026	995.0594	1205.0871	150.8347	54.1668
2	12:47:32	1615.1565	4498.7140	2032.7479	1435.1236	1030.8971	1133.4104	158.3348	45.0001
3	12:48:09	1545.1432	4313.6161	2180.2852	1585.1507	1013.3949	1211.7548	154.1681	50.0001
4	12:48:45	1697.6729	4581.2589	2247.8031	1655.1644	1048.3993	1168.4152	170.8351	58.3335
5	12:49:22	1687.6709	4473.7005	2237.8004	1507.6364	1014.2284	1250.0938	179.1686	52.5002
x		1650.1636	4429.6778	2127.7725	1498.1355	1020.3958	1193.7523	162.6683	52.0002
%RSD		4.171	2.883	6.370	8.992	1.974	3.725	7.339	9.521

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	12:46:55	980231.3600	5022.7632	102.5006	4916.4499	1035.0643	2354.0825	1111174.6000	20.0000
2	12:47:32	1011509.0000	5156.5949	70.0003	5111.5672	1127.5763	2514.1292	1151920.9000	27.5000
3	12:48:09	1019492.1000	5421.7632	72.5003	5225.3878	1137.5776	2616.6608	1163507.1000	27.5000
4	12:48:45	1032414.9000	5540.5913	65.0003	5294.1812	1106.3234	2620.4119	1181513.9000	30.0001
5	12:49:22	1050866.8000	5406.7534	75.0003	5257.9082	1188.8348	2735.4489	1191502.4000	27.5000
x		1018902.8000	5309.6932	77.0004	5161.0988	1119.0753	2568.1466	1159923.8000	26.5000
%RSD		2.576	4.007	19.126	2.963	4.996	5.569	2.698	14.307

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	12:46:55	2837.9832	700.0294	1207.5875	1645982.1000	4139.7780	9877.1000	3475.7247	2890.5012
2	12:47:32	2800.4705	660.0261	1257.5949	T 1759269.6000	4236.0764	10375.2050	3465.7205	2980.5329
3	12:48:09	3245.6319	725.0315	1197.5860	1755257.5000	4332.3759	10447.7950	3580.7691	2888.0003
4	12:48:45	2900.5047	815.0399	1270.0968	1777626.9000	4476.2019	10715.6350	3813.3723	2910.5082
5	12:49:22	2948.0214	712.5305	1270.0968	1799295.7000	4575.0055	11021.0330	3845.8872	3005.5419
x		2946.5223	722.5315	1240.5924	T 1747486.4000	4351.8875	10487.3540	3636.2948	2935.0169
%RSD		5.992	7.914	2.841	T 3.397	4.046	4.055	5.019	1.854

Run	Time	208Pb	209Bi	220Bkg
1	12:46:55	6802.7755	1151422.3000	0.0000
2	12:47:32	7040.4728	1211710.1000	0.0000
3	12:48:09	7170.5837	1236741.0000	0.0000
4	12:48:45	7450.8294	1263385.5000	0.0000
5	12:49:22	7793.6427	1273767.2000	0.0000
x		7251.6608	1227405.2000	0.0000
%RSD		5.279	3.981	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	12:52:49	264739.4700	2989.7029	4096.0064	490.0144	605.0220	13616.1150	540.0175	626176.4400
2	12:53:25	265912.6100	2966.3612	4281.0994	560.0188	665.0265	13500.9280	467.5131	635496.3400
3	12:54:02	271043.1600	3006.3755	4421.1725	735.0324	615.0227	13716.2790	505.0153	645491.1600
4	12:54:40	268588.9200	2976.3648	4451.1885	590.0209	685.0282	14347.3400	542.5177	653763.9900
5	12:55:17	272269.6900	2979.6993	4521.2262	585.0205	820.0404	13874.0400	602.5218	654214.8900
x		268510.7700	2983.7007	4354.1386	592.0214	678.0279	13810.9400	531.5171	643028.5600
%RSD		1.200	0.508	3.874	15.093	12.705	2.387	9.423	1.884

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	12:52:49	220.0029	15016.0170	16275.8790	ID 4043.4807	17931.7720	185123.6600	1747.6832	18064.5580
2	12:53:25	180.0019	15649.6810	16398.6190	ID 4108.5125	19144.4650	185512.1500	1575.1489	18510.5360
3	12:54:02	147.5013	15807.4780	16624.0650	ID 4278.5981	19349.9390	189239.5700	1702.6739	18913.9400
4	12:54:40	145.0013	15614.6150	16468.7570	ID 4551.2425	19124.4190	188907.1600	1602.6541	18736.0390
5	12:55:17	147.5013	15867.5920	16383.5900	ID 4496.2126	19214.6270	189451.8200	1632.6599	19312.3520
x		168.0017	15591.0770	16430.1820	ID 4295.6093	18953.0450	187646.8700	1652.1640	18707.4850
%RSD		19.328	2.170	0.782	ID 5.263	3.048	1.140	4.327	2.481

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	12:52:49	4121.0187	10371.4500	4893.9366	3098.0758	2574.5643	1559.3125	330.0065	60.0002
2	12:53:25	4258.5879	10609.2490	5136.5826	3408.1968	2473.7004	1612.6560	342.5070	67.5003
3	12:54:02	4353.6370	10977.2250	4991.4945	3325.6635	2602.9064	1686.0039	324.1730	53.3335
4	12:54:40	4421.1725	11082.3640	5086.5519	3400.6937	2636.2503	1650.1634	366.6747	53.3335
5	12:55:17	4378.6501	10889.6100	5339.2099	3448.2133	2616.2440	1624.3250	325.8397	70.0003
x		4306.6132	10785.9800	5089.5551	3336.1686	2580.7331	1626.4922	337.8402	60.8336
%RSD		2.779	2.696	3.294	4.205	2.476	2.886	5.223	12.777

Run	Time	89Y	102Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	12:52:49	999473.3500	13303.1100	162.5016	13037.6910	2746.7026	6411.2153	1143746.4000	27.5000
2	12:53:25	1035276.9000	13733.8080	202.5025	13319.3860	2772.9613	6748.9818	1187769.0000	27.5000
3	12:54:02	1055181.9000	14149.5020	157.5015	13509.6920	2928.0143	6790.2653	1209801.6000	27.5000
4	12:54:40	1072726.8000	14225.8820	230.0032	13795.1590	2991.7870	6871.5820	1241171.7000	22.5000
5	12:55:17	1088873.6000	14063.1060	175.0018	13990.4840	2988.0356	7012.9496	1245756.2000	17.5000
x		1050306.5000	13895.0820	185.5021	13530.4820	2885.5001	6766.9988	1205649.0000	24.5000
%RSD		3.306	2.738	16.379	2.789	4.084	3.295	3.479	18.254

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	12:52:49	7193.1031	1800.1944	3158.0983	1696430.7000	10852.0610	25547.8520	9195.0702	7175.5880
2	12:53:25	7696.0521	1867.7093	3358.1765	1796524.8000	11256.3470	27486.5060	9990.9856	7661.0199
3	12:54:02	7848.6944	1977.7347	3463.2195	T 1906321.9000	11822.1300	28245.2870	9958.4467	7733.5868
4	12:54:40	8118.9531	1885.2132	3435.7081	T 1938130.1000	11964.8330	28463.5270	10000.9980	8211.5438
5	12:55:17	8341.6729	1880.2121	3330.6655	T 1964253.2000	12049.9560	29168.4590	10366.4440	8294.1255
x		7839.6951	1882.2127	3349.1736	T 1860332.1000	11589.0660	27782.3260	9902.3888	7815.1728
%RSD		5.592	3.368	3.578	T 6.004	4.446	4.988	4.333	5.815

Run	Time	208Pb	209Bi	220Bkg
1	12:52:49	18270.0060	1195231.6000	0.0000
2	12:53:25	19299.8230	1270960.7000	0.0000
3	12:54:02	20467.6050	1307513.8000	0.0000
4	12:54:40	20319.7430	1344386.9000	0.0000
5	12:55:17	20730.7540	1364702.4000	0.0000
x		19817.5860	1296559.1000	0.0000
%RSD		5.153	5.170	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	12:58:43	270530.2200	5867.0646	8048.8852	1125.0759	1300.1014	25977.9280	735.0324	630207.7300
2	12:59:20	269676.5500	5952.9588	8374.2055	1225.0900	1515.1377	25940.3110	730.0320	641184.4900
3	12:59:57	272376.4300	5969.6374	8549.3833	1120.0753	1485.1323	26890.8170	727.5318	645506.0000
4	13:00:34	274319.4600	6030.5146	8774.6172	1140.0780	1305.1022	27277.0690	770.0356	654385.0000
5	13:01:10	275574.8800	6167.2813	8479.3117	1065.0681	1390.1159	27174.2340	790.0375	657407.0200
x		272495.5100	5997.4913	8445.2806	1135.0775	1399.1179	26652.0720	750.5338	645738.0500
%RSD		0.911	1.858	3.148	5.090	7.110	2.433	3.727	1.684

Run	Time	47Ti	51V	52Cr	54Cr	55Mn	56Fe	57Fe	59Co
1	12:58:43	200.0024	31107.9540	29783.1270	ID 4686.3173	37250.5710	193899.8900	1787.6917	36527.3800
2	12:59:20	185.0021	30628.6840	31010.0900	ID 5009.0050	37137.5680	195662.8800	1770.1880	37436.4010
3	12:59:57	145.0013	31607.3280	31878.3570	ID 5206.6260	38664.4890	196010.9200	1845.2043	37577.0310
4	13:00:34	127.5010	31687.6320	31090.3890	ID 5036.5215	38855.3740	197277.8000	1805.1955	37690.0400
5	13:01:10	135.0011	31662.5370	31519.4960	ID 5001.5005	38712.2100	198849.5000	1682.6699	37649.8590
x		158.5016	31338.8270	31056.2920	ID 4987.9941	38124.0420	196340.2000	1778.1899	37376.1420
%RSD		20.249	1.476	2.553	ID 3.775	2.237	0.943	3.386	1.296

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	12:58:43	8246.5783	20886.1410	10233.7800	6247.3409	5085.7181	2236.9669	594.1879	68.3336
2	12:59:20	8646.9839	21302.1920	10253.8050	6287.3710	5179.9427	2251.9709	610.8557	55.8335
3	12:59:57	8591.9270	21610.4840	10153.6820	6497.5321	5177.4412	2271.9763	623.3567	52.5002
4	13:00:34	8737.0778	21963.9070	10666.8220	6369.9336	5335.0405	2296.1496	635.8576	62.5002
5	13:01:10	8779.6225	21898.7360	10386.4690	6547.5712	5250.8204	2287.8140	582.5204	65.0003
x		8600.4379	21532.2920	10338.9120	6389.9498	5205.7926	2268.9755	609.3556	60.8336
%RSD		2.454	2.073	1.949	2.036	1.787	1.083	3.530	10.743

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	12:58:43	1012797.3000	26739.0800	362.5079	26014.2910	5438.0237	12990.1170	1160906.6000	45.0001
2	12:59:20	1044543.4000	27447.6280	407.5100	27086.4490	5585.6213	13212.9670	1192762.5000	35.0001
3	12:59:57	1055820.7000	27685.9140	372.5083	26846.9260	5543.0929	13442.0830	1212143.1000	32.5001
4	13:00:34	1065060.6000	27877.8020	437.5115	27124.0710	5890.8314	13648.6680	1219004.2000	32.5001
5	13:01:10	1080221.1000	28073.4580	355.0076	27830.1440	5862.0611	13731.3040	1233930.2000	32.5001
x		1051688.6000	27564.7760	387.0090	26980.3760	5663.9261	13405.0280	1203749.3000	35.5001
%RSD		2.412	1.874	8.956	2.420	3.559	2.288	2.339	15.267

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	12:58:43	14805.6410	3670.8083	6287.3710	1745064.8000	22055.3980	52280.9850	18751.0720	14334.8190
2	12:59:20	15444.2980	3748.3428	6374.9375	T 1853714.9000	22799.8980	54042.1670	19126.9250	15016.0170
3	12:59:57	15446.8030	3840.8849	6565.0850	T 1887051.6000	23009.2220	55213.5580	19432.6310	15935.2210
4	13:00:34	15762.3930	3818.3746	6812.7837	1858244.0000	23573.2950	56259.2670	19670.6890	15882.6210
5	13:01:10	16290.9080	3753.3451	6582.5988	1886996.6000	23866.6280	56571.3700	20001.4750	15777.4210
x		15550.0090	3766.3511	6524.5552	T 1846214.4000	23060.8880	54873.4700	19396.5580	15389.2200
%RSD		3.478	1.775	3.129	T 3.177	3.061	3.200	2.488	4.529

Run	Time	208Pb	209Bi	220Bkg
1	12:58:43	37062.2340	1223320.9000	0.0000
2	12:59:20	38511.2820	1271427.0000	0.0000
3	12:59:57	38777.5120	1303423.7000	0.0000
4	13:00:34	39872.6620	1318236.3000	0.0000
5	13:01:10	40206.7620	1333023.8000	0.0000
x		38886.0900	1289886.3000	0.0000
%RSD		3.201	3.384	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:04:38	269303.9500	29009.5720	35610.9260	5421.7632	5807.0226	117598.9600	1587.6512	615671.6400
2	13:05:14	270765.1700	29443.5900	36846.2790	5556.8521	5982.1464	120469.5300	1607.6551	628292.1300
3	13:05:51	269953.6400	29518.8560	38061.7240	5516.8255	6507.5399	120370.6100	1732.6801	633380.2300
4	13:06:28	274261.7700	29431.0460	38749.8840	5556.8521	6427.4778	124495.5500	1802.6950	647356.6100
5	13:07:05	272958.3400	29481.2230	39428.0540	5636.9058	6757.7389	122696.6700	1760.1859	645484.4200
x		271448.5700	29376.8580	37739.3730	5537.8397	6296.3851	121126.2600	1698.1734	634037.0100
%RSD		0.770	0.709	4.041	1.412	6.217	2.155	5.615	2.055

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:04:38	202.5025	148320.8000	141923.3300	ID 8556.8910	179620.1600	237342.4300	3063.0628	179318.7800
2	13:05:14	175.0018	152125.9800	145036.2400	ID 8774.6172	184390.1600	240475.3500	3018.0464	181234.5600
3	13:05:51	142.5012	151453.9000	144718.2900	ID 8917.2685	185724.3000	242374.1900	2983.0338	186204.8500
4	13:06:28	150.0014	153709.6400	147226.6500	ID 9252.6338	188863.6900	242129.7400	2928.0143	187411.4500
5	13:07:05	172.5018	155413.3100	148929.0000	ID 9052.4141	186616.4000	245228.4000	2893.0021	188260.2600
x		168.5017	152204.7300	145566.7000	ID 8910.7649	185042.9400	241510.0200	2977.0319	184485.9800
%RSD		14.021	1.745	1.828	ID 2.973	1.860	1.196	2.290	2.152

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:04:38	40581.0690	99578.9240	48450.4380	26963.5520	24562.8130	7093.8514	2582.9002	47.5001
2	13:05:14	41608.6180	102015.6300	49365.7870	28443.4590	24898.8080	7267.3341	2578.7323	52.5002
3	13:05:51	42739.3190	103660.7500	49989.4890	28631.6020	25466.3530	7285.6835	2702.9383	55.0002
4	13:06:28	42631.2670	102696.4200	50246.0240	29361.6350	25619.3210	7439.1523	2765.4588	70.8336
5	13:07:05	41854.8460	104091.0600	50406.9920	28912.5690	25647.7410	7420.8026	2814.6419	54.1668
x		41883.0240	102408.5600	49691.7460	28462.5630	25239.0070	7301.3648	2688.9343	56.0002
%RSD		2.090	1.736	1.608	3.185	1.917	1.909	3.955	15.692

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:04:38	984341.1000	128608.5600	1640.1614	125541.0600	25843.7620	61611.9230	1115226.1000	17.5000
2	13:05:14	1010721.5000	131748.2900	1735.1806	129302.9300	27203.0780	63302.0190	1155939.5000	32.5001
3	13:05:51	1037987.6000	135512.9400	1887.7138	132441.6500	27771.1970	65015.1330	1180435.9000	20.0000
4	13:06:28	1051858.5000	137475.9500	1792.6928	133500.8500	28013.2560	67012.1080	1201594.1000	10.0000
5	13:07:05	1057692.3000	139453.4000	1980.2353	135239.8100	28227.7270	67220.0230	1216105.4000	20.0000
x		1028520.2000	134559.8300	1807.1968	131205.2600	27411.8040	64832.2410	1173860.2000	20.0000
%RSD		2.979	3.254	7.306	2.922	3.489	3.715	3.396	40.505

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:04:38	71021.3580	17448.2470	30443.0050	1653355.4000	101910.6100	245158.9000	85695.8730	68812.9450
2	13:05:14	74249.3110	17871.6430	30826.9130	1730800.6000	107596.4100	259422.3600	92083.4660	72993.2870
3	13:05:51	76819.9540	18059.5480	32054.0290	1781650.9000	111528.8600	269612.0100	93901.0810	74713.4310
4	13:06:28	78475.2700	18763.6010	32581.0670	1830414.8000	114532.9500	274025.0100	97717.0780	77248.8920
5	13:07:05	79096.0990	18535.5910	32392.8360	T 1906339.1000	116584.8600	280091.7900	97997.8460	79414.1020
x		75932.3980	18135.7260	31659.5700	T 1780512.2000	110430.7400	265662.0100	93479.0690	74636.5310
%RSD		4.378	2.895	3.044	T 5.399	5.291	5.165	5.378	5.454

Run	Time	208Pb	209Bi	220Bkg
1	13:04:38	174125.3700	1161332.8000	0.0000
2	13:05:14	184086.0500	1219621.7000	0.0000
3	13:05:51	189945.3600	1270685.6000	0.0000
4	13:06:28	194966.8500	1299816.2000	0.0000
5	13:07:05	197198.4500	1317827.3000	0.0000
x		188064.4200	1253856.7000	0.0000
%RSD		4.936	5.079	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:10:32	266256.6700	117561.7700	148481.1200	21587.9260	24245.2190	478800.9000	5074.0443	614420.4100
2	13:11:09	265163.4700	118103.5200	154111.9700	22114.3040	25188.0090	484416.9200	5164.0996	621443.6000
3	13:11:45	271386.5700	118835.4800	157158.0800	21347.3070	26371.6620	489247.2100	5041.5246	632593.7300
4	13:12:22	270137.8000	117707.1400	156093.3400	22435.1600	25619.3210	483209.7700	5181.6104	633446.2300
5	13:12:59	269805.6300	118254.8100	156511.0700	22104.2770	26306.4560	493833.7300	5269.1653	637164.2600
x		268550.0300	118092.5400	154471.1200	21917.7950	25546.1330	485901.7000	5146.0888	627813.6500
%RSD		1.000	0.425	2.289	2.009	3.438	1.191	1.761	1.515

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:10:32	222.5030	612326.9300	584297.9300	ID 24049.6530	750722.5700	414579.7900	7220.6269	740618.1700
2	13:11:09	175.0018	621497.4000	590546.1400	ID 24556.1270	760650.0900	424679.7900	7370.7582	755993.6200
3	13:11:45	160.0015	624841.6200	594827.6400	ID 24661.4370	771259.4200	424679.7900	7425.8071	765516.9100
4	13:12:22	157.5015	628897.8600	599105.9100	ID 24784.3010	774697.4300	426075.9200	7403.2871	764335.5000
5	13:12:59	167.5017	631450.4700	598663.2300	ID 25466.3530	779311.8600	426920.0200	7253.1551	761997.7700
x		176.5019	623802.8500	593488.1700	ID 24703.5740	767328.2700	423387.0600	7334.7269	757692.3900
%RSD		15.077	1.196	1.043	ID 2.064	1.505	1.185	1.256	1.350

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:10:32	167483.8000	410526.3300	197134.4600	112121.7400	99711.3270	25882.6320	10375.6220	41.6668
2	13:11:09	168351.0200	418327.8000	201077.0000	114382.1500	101707.7400	26522.1380	10651.8030	64.1669
3	13:11:45	173364.7600	420067.1000	201560.9800	115728.0400	102404.5300	26591.5260	10782.8050	51.6668
4	13:12:22	172361.7700	419636.1800	200928.4800	116447.9600	102751.2500	26606.5740	10737.7470	56.6669
5	13:12:59	171320.6300	422984.2400	205180.2200	116197.0000	103015.3200	26526.3180	10933.8350	60.0002
x		170576.4000	418308.3300	201176.2300	114975.3800	101918.0300	26425.8380	10696.3620	54.8335
%RSD		1.496	1.117	1.419	1.551	1.302	1.158	1.930	15.808

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:10:32	992445.6400	539984.7300	7263.1638	527375.6700	109775.8100	259660.8700	1140829.2000	30.0001
2	13:11:09	1027299.3000	556510.5700	7573.4399	543657.3600	113909.4900	269162.8300	1176882.0000	42.5001
3	13:11:45	1043936.4000	565583.1200	7771.1217	552863.1400	115050.0000	272782.7300	1202746.4000	30.0001
4	13:12:22	1038410.8000	568861.6300	7718.5729	556636.0500	116197.0000	274306.5400	1208205.5000	47.5001
5	13:12:59	1043541.2000	570088.8800	7901.2440	556662.7400	115948.5700	276523.0200	1220242.2000	37.5001
x		1029126.7000	560205.7800	7645.5085	547438.9900	114176.1700	270487.2000	1189781.1000	37.5001
%RSD		2.097	2.230	3.190	2.267	2.293	2.447	2.657	20.548

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:10:32	301201.7200	71833.2720	126127.3200	1729908.1000	444250.3100	1088171.4000	375383.5400	299416.5900
2	13:11:09	316519.0300	75066.5840	130316.0300	1801530.1000	468582.6700	1144715.7000	398112.7700	315148.5300
3	13:11:45	325058.5000	76017.6470	132766.7600	1846407.0000	481296.1600	1180934.7000	410214.0000	325500.2500
4	13:12:22	326038.1800	76552.5100	134877.7600	1861478.3000	485252.2300	1195861.9000	410242.8700	327873.1100
5	13:12:59	326929.6000	76719.0300	134859.9700	1879050.2000	490098.8800	1198838.8000	417639.5300	329365.2500
x		319149.4100	75237.8090	131789.5700	1823674.7000	473896.0500	1161704.5000	402318.5400	319460.7500
%RSD		3.403	2.671	2.792	3.278	3.881	3.994	4.128	3.915

Run	Time	208Pb	209Bi	220Bkg
1	13:10:32	768052.5600	1228217.6000	0.0000
2	13:11:09	806651.3600	1292318.2000	2.5000
3	13:11:45	837340.9600	1328243.0000	0.0000
4	13:12:22	837710.4800	1345924.2000	0.0000
5	13:12:59	846155.6500	1342635.3000	0.0000
x		819182.2000	1307467.7000	0.5000
%RSD		3.942	3.758	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:16:27	259367.7800	288796.4700	354263.4300	50467.3560	59562.1010	1165278.4000	11220.0480	588656.7300
2	13:17:03	260002.1000	290541.4100	363258.5200	51307.4630	60700.2690	1182027.1000	11620.5970	594748.5300
3	13:17:40	263354.0900	293148.7100	370946.3200	52298.5950	61143.4920	1200973.4000	11938.5460	605201.0600
4	13:18:17	265617.5900	293567.2300	369049.8400	52399.2240	62181.1270	1192880.2000	11810.8640	603633.2500
5	13:18:53	263000.6900	290698.4100	372728.2400	53350.2300	61606.8860	1187487.9000	11933.5380	603227.9200
x		262268.4500	291350.4500	366049.2700	51964.5740	61038.7750	1185729.4000	11704.7190	599093.5000
%RSD		0.981	0.681	2.046	2.129	1.625	1.130	2.564	1.189

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:16:27	172.5018	T 1475907.3000	1439848.2000	ID 51820.6230	1871410.6000	747651.5400	15546.9890	1878121.6000
2	13:17:03	200.0024	T 1506999.8000	1458042.2000	ID 53143.9180	1892844.7000	761533.0300	15749.8690	1912837.0000
3	13:17:40	177.5019	1571283.3000	1489432.9000	ID 54170.4960	1939381.9000	775173.8200	15860.0780	1928527.1000
4	13:18:17	165.0016	T 1524211.5000	1475067.2000	ID 54404.5130	1942211.4000	781939.2100	15952.7550	T 1865789.3000
5	13:18:53	157.5015	1567826.3000	1482439.9000	ID 54178.0450	1941214.1000	780476.1200	15471.8490	1928303.0000
x		174.5018	T 1529245.6000	1468966.1000	ID 53543.5190	1917412.5000	769354.7400	15716.3080	T 1902715.6000
%RSD		9.252	T 2.660	1.364	ID 2.017	1.727	1.893	1.297	T 1.530

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:16:27	409896.4300	1017026.3000	489496.2100	273159.7800	243754.4200	62220.5870	25172.9630	65.0003
2	13:17:03	414238.4200	1037660.3000	493611.1000	277768.4300	248255.2300	63359.1170	25915.2330	56.6669
3	13:17:40	419870.0300	1042920.2000	498937.1600	284158.5500	250692.4200	63684.9200	25927.7720	59.1669
4	13:18:17	420230.0100	1035034.4000	500281.7900	283768.0800	249213.2000	63682.4010	25742.1980	61.6669
5	13:18:53	419898.9300	1048183.2000	502785.9600	284802.4800	250251.1200	63674.0040	25648.5770	59.1669
x		416826.7600	1036164.9000	497022.4400	280731.4600	248433.2800	63324.2060	25681.3490	60.3336
%RSD		1.106	1.142	1.082	1.813	1.119	0.999	1.198	5.223

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	13:16:27	950363.0000	1332652.0000	17515.8890	1303231.8000	263127.0900	628161.5600	1083407.7000	27.5000
2	13:17:03	973246.9500	1370462.9000	18036.9990	1333012.1000	272778.8600	647929.9500	1114833.4000	42.5001
3	13:17:40	988076.8500	1390850.5000	18382.7530	1364721.4000	275695.0000	660769.2000	1135879.0000	37.5001
4	13:18:17	985448.7600	1405526.9000	18628.2980	1367544.1000	278798.2300	663967.8000	1144708.6000	27.5000
5	13:18:53	994587.3400	1404066.1000	18530.5800	1376159.8000	278808.5600	668184.4000	1149041.0000	37.5001
x		978344.5800	1380711.7000	18218.9040	1348933.8000	273841.5500	653802.5900	1125573.9000	34.5001
%RSD		1.784	2.196	2.484	2.248	2.371	2.479	2.399	19.444

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:16:27	733822.1100	172790.5100	305970.8300	1628098.7000	1090647.1000	2726238.6000	920281.0000	725699.9800
2	13:17:03	765593.4900	177863.0700	314037.7500	1684178.1000	1125553.6000	2849357.6000	963229.6600	760196.3600
3	13:17:40	784137.0300	181952.4500	321062.9900	1733207.4000	1158312.6000	2927841.3000	982653.2400	778016.2900
4	13:18:17	790059.1100	185478.9300	322268.2000	1754936.8000	1176324.6000	2954015.3000	990700.1100	782177.6000
5	13:18:53	795145.4400	184796.5200	325222.2000	1769042.7000	1184731.2000	3004320.3000	1001392.0000	794412.7600
x		773751.4400	180576.3000	317712.4000	1713892.8000	1147113.8000	2892354.6000	971651.2000	768100.6000
%RSD		3.226	2.927	2.437	3.370	3.390	3.749	3.286	3.475

Run	Time	208Pb	209Bi	220Bkg
1	13:16:27	1886553.6000	1159832.6000	0.0000
2	13:17:03	1986920.4000	1208363.7000	0.0000
3	13:17:40	2026764.2000	1237341.0000	0.0000
4	13:18:17	2047878.4000	1250760.5000	0.0000
5	13:18:53	2074308.3000	1261136.2000	2.5000
x		2004485.0000	1223486.8000	0.5000
%RSD		3.655	3.329	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:22:21	256066.3300	555554.4100	695891.3200	98620.1230	115190.6700	T 2178876.0000	21861.1370	573442.6700
2	13:22:58	258635.5400	561702.5500	718151.1800	102096.6200	117462.0500	T 2209923.4000	22545.4570	590208.4200
3	13:23:35	259961.7000	562508.4500	733625.9200	102157.3500	120393.4400	T 2217451.4000	22422.6260	591968.1500
4	13:24:12	260618.4100	559641.4100	741477.2600	103114.0300	121042.7400	T 2218959.3000	23086.9360	597418.4900
5	13:24:48	262173.5600	561064.1200	748282.0300	104718.8500	122645.9300	T 2239474.4000	23144.5960	600888.9200
x		259491.1100	560094.1900	727485.5400	102141.3900	119346.9600	T 2212936.9000	22612.1500	590785.3300
%RSD		0.886	0.490	2.876	2.189	2.503	T 0.993	2.333	1.793

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:22:21	210.0027	T 2834428.5000	T 2700701.0000	ID 98412.6920	T 3465570.0000	1315170.0000	28418.3740	T 3495379.3000
2	13:22:58	225.0030	T 2915063.4000	T 2754392.8000	ID 100970.5200	T 3556373.5000	1349101.8000	28872.4310	T 3542488.0000
3	13:23:35	167.5017	T 2913416.5000	T 2759609.1000	ID 100919.9100	T 3581041.7000	1364696.5000	29870.9410	T 3554279.2000
4	13:24:12	157.5015	T 2925080.8000	T 2775964.6000	ID 103941.7200	T 3623422.9000	1375365.8000	29532.2370	T 3575768.3000
5	13:24:48	130.0010	T 2938181.5000	T 2784071.7000	ID 103379.7900	T 3611592.2000	1384384.8000	29140.8620	T 3618076.8000
x		178.0020	T 2905234.2000	T 2754947.8000	ID 101524.9300	T 3567600.0000	1357743.8000	29166.9690	T 3557198.3000
%RSD		21.881	T 1.404	T 1.184	ID 2.183	T 1.760	2.002	1.937	T 1.265

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:22:21	801937.3200	T 1958348.7000	946983.8300	532286.0900	471406.7000	119452.5400	48388.4130	65.0003
2	13:22:58	813309.1900	2049804.5000	959979.7700	542288.6000	480942.4200	121217.7600	49216.5750	62.5002
3	13:23:35	822058.4000	T 2018834.0000	972919.3000	547343.5500	484010.1100	121202.5400	49286.1510	79.1670
4	13:24:12	823043.9200	T 2020881.4000	980548.0800	554664.6400	486486.5800	122474.2600	50005.4170	62.5002
5	13:24:48	827314.8800	2080635.6000	976330.8400	554216.2300	487304.8800	122196.0600	50179.7940	77.5004
x		817532.7400	T 2025700.8000	967352.3600	546159.8200	482030.1400	121308.6300	49415.2700	69.3336
%RSD		1.235	T 2.236	1.420	1.703	1.335	0.976	1.446	11.971

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	13:22:21	943128.6900	T 2583258.3000	34333.0800	M 2652611.2000	523182.0700	1258611.3000	1088269.3000	17.5000
2	13:22:58	967798.8700	M 2812785.7000	35854.4670	M 2730434.9000	541429.0700	1308627.5000	1118712.8000	27.5000
3	13:23:35	985967.5900	T 2704355.1000	35854.4670	T 2640576.8000	549657.4000	1330554.3000	1145622.3000	37.5001
4	13:24:12	991920.8300	T 2722483.6000	36017.6690	T 2660811.0000	554181.5300	1342305.5000	1157051.6000	32.5001
5	13:24:48	999139.1100	T 2751489.2000	36482.1830	T 2688586.8000	558748.1000	1350318.5000	1161750.5000	45.0001
x		977591.0200	TM 2714874.4000	35708.3730	TM 2674604.2000	545439.6400	1318083.4000	1134281.3000	32.0001
%RSD		2.301	TM 3.105	2.270	TM 1.341	2.565	2.790	2.703	32.401

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:22:21	M 1491275.5000	345869.1100	611999.1100	1650652.4000	2258335.1000	T 5288262.7000	T 1885309.7000	1490676.1000
2	13:22:58	M 1566967.5000	357964.1400	634731.1900	1729134.5000	2382464.9000	T 5564524.0000	T 1968903.7000	1575478.3000
3	13:23:35	M 1595341.7000	365307.7500	642345.2200	1778698.6000	2435993.1000	T 5721577.3000	T 2033894.8000	1618991.1000
4	13:24:12	M 1629550.8000	368292.4100	653596.5900	1809050.8000	2497708.3000	T 5828349.1000	T 2064630.9000	1659008.7000
5	13:24:48	M 1645701.4000	371617.7600	661546.1100	1826191.0000	2527493.8000	T 5877464.7000	T 2087192.6000	1667995.9000
x		M 1585767.4000	361810.2300	640843.6400	1758745.4000	2420399.0000	T 5656035.6000	T 2007986.4000	1602430.0000
%RSD		M 3.847	2.830	2.984	4.024	4.401	T 4.209	T 4.071	4.521

Run	Time	208Pb	209Bi	220Bkg
1	13:22:21	T 3709799.4000	1182052.9000	0.0000
2	13:22:58	T 3892833.0000	1242293.0000	0.0000
3	13:23:35	T 4009955.5000	1280036.5000	0.0000
4	13:24:12	T 4085629.9000	1303361.2000	0.0000
5	13:24:48	T 4155691.3000	1331108.2000	2.5000
x		T 3970781.8000	1267770.4000	0.5000
%RSD		T 4.418	4.570	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:28:17	262401.4000	66.6669	1069003.3000	150858.2400	172747.1300	2337.8279	33035.3510	586728.8900
2	13:28:54	265739.7300	128.3343	1097460.7000	155283.4200	177045.9500	2662.9254	33662.8540	599217.2500
3	13:29:31	269300.5100	270.8377	1128551.4000	158100.6600	183161.0000	3560.7606	34506.2930	613920.5100
4	13:30:08	269267.8100	280.0047	1148118.4000	161764.9800	185323.0200	4073.4954	35146.4600	619154.7900
5	13:30:45	268933.0900	296.6720	1153164.0000	161479.5300	188554.3000	3525.7457	35354.8390	627973.1300
x		267128.5100	208.5031	1119259.5000	157497.3700	181366.2800	3232.1510	34341.1600	609398.9100
%RSD		1.136	49.910	3.181	2.899	3.525	22.018	2.864	2.694

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:28:17	147.5013	290.0051	2132.7729	ID 102898.8900	547.5180	1950729.9000	42347.3250	410.0101
2	13:28:54	177.5019	540.0175	2237.8004	ID 106258.1600	1172.5825	2007251.0000	43086.0980	825.0408
3	13:29:31	157.5015	1330.1061	3123.0851	ID 108742.4000	2082.7602	T 1942360.7000	44732.2370	1795.1933
4	13:30:08	150.0014	1497.6346	3033.0519	ID 108800.6500	2205.2918	T 1954277.9000	45300.2930	1847.7048
5	13:30:45	172.5018	1292.6002	3168.1021	ID 111480.7200	1915.2201	T 1976742.8000	45217.3450	1870.2098
x		161.0016	990.0727	2738.9625	ID 107636.1600	1584.6745	T 1966272.5000	44136.6590	1349.6318
%RSD		8.333	54.331	18.588	ID 3.000	44.488	T 1.333	3.036	50.738

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:28:17	135.0011	827.5411	377.5086	417.5105	55.8335	805.0389	63.3336	53.3335
2	13:28:54	230.0032	1127.5763	555.0185	485.0141	126.6676	857.5441	56.6669	65.0003
3	13:29:31	445.0119	1575.1489	702.5296	735.0324	281.6714	961.7222	73.3337	51.6668
4	13:30:08	510.0156	1690.1714	767.5354	700.0294	275.8379	959.2219	75.8337	51.6668
5	13:30:45	505.0153	1472.6301	670.0269	737.5326	264.1709	922.5511	85.8338	54.1668
x		365.0094	1338.6135	614.5238	615.0238	200.8363	901.2156	71.0003	55.1669
%RSD		47.087	26.497	24.940	24.732	51.443	7.574	15.951	10.156

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:28:17	945752.5700	807.5391	2.5000	783.7869	37.5001	90.0005	1090564.8000	32.5001
2	13:28:54	974157.1600	835.0418	10.0000	793.7878	116.2508	295.0052	1125610.6000	35.0001
3	13:29:31	998675.6800	976.3072	22.5000	961.3054	232.5032	611.2724	1154550.2000	35.0001
4	13:30:08	1008443.7000	987.5585	10.0000	958.8052	288.7550	650.0254	1156133.9000	37.5001
5	13:30:45	1016274.9000	977.5573	30.0001	908.7996	240.0035	545.0178	1175979.4000	22.5000
x		988660.8000	916.8008	15.0000	881.2970	183.0025	438.2643	1140567.8000	32.5001
%RSD		2.908	9.581	73.598	9.881	56.332	54.473	2.913	18.040

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:28:17	2377.8392	32.5001	97.5006	1638976.5000	370.0082	868.7953	287.5050	192.5022
2	13:28:54	2905.5064	90.0005	185.0021	1706797.4000	818.7902	1883.9629	570.0195	477.5137
3	13:29:31	3100.5767	227.5031	305.0056	1762856.7000	1705.1744	4353.6370	1130.0766	940.0530
4	13:30:08	2985.5347	222.5030	310.0058	1794132.1000	1551.3944	3748.3428	1250.0938	887.5473
5	13:30:45	2885.4995	195.0023	345.0071	1801180.2000	1403.8682	3341.9200	1092.5716	825.0408
x		2850.9913	153.5018	248.5042	1740788.6000	1169.8471	2839.3316	866.0533	664.5314
%RSD		9.740	57.010	41.782	3.907	47.784	50.328	47.987	48.131

Run	Time	208Pb	209Bi	220Bkg
1	13:28:17	572.5197	1169207.1000	0.0000
2	13:28:54	1130.0766	1224424.2000	0.0000
3	13:29:31	2307.8195	1256169.5000	0.0000
4	13:30:08	2352.8321	1276786.1000	0.0000
5	13:30:45	2000.2400	1289297.0000	0.0000
x		1672.6976	1243176.8000	0.0000
%RSD		47.055	3.868	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:34:14	267898.9000	45.0001	T 1430522.9000	202239.6300	233871.3300	3908.4163	43963.1600	604143.2900
2	13:34:51	269417.5300	90.8338	1521998.4000	210495.3400	242019.0900	4316.1174	45064.0170	617312.8900
3	13:35:27	271559.5700	185.0021	T 1514319.3000	215162.2900	248768.5400	4768.8641	46411.3820	626861.4300
4	13:36:04	273725.4000	155.0014	T 1551685.3000	219960.1300	255987.2900	4651.2977	46896.5870	631068.0700
5	13:36:41	276086.4000	162.5016	1612616.7000	221376.9200	257322.4900	4596.2672	47882.1680	643716.4600
x		271737.5600	127.6678	T 1526228.5000	213846.8600	247593.7500	4448.1926	46043.4630	624620.4300
%RSD		1.207	45.401	T 4.325	3.635	3.967	7.745	3.353	2.380

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:34:14	172.5018	287.5050	2152.7780	ID 138120.2200	590.0209	T 2403780.3000	56807.9710	385.0089
2	13:34:51	175.0018	442.5118	2435.3558	ID 142386.1200	837.5421	T 2487841.2000	57880.3120	705.0298
3	13:35:27	165.0016	1042.5652	2745.4522	ID 147682.1100	1502.6355	T 2554467.8000	59841.5920	1327.6057
4	13:36:04	165.0016	725.0315	2745.4522	ID 148384.4200	1425.1218	T 2582923.3000	60249.5160	1070.0687
5	13:36:41	160.0015	917.5505	2875.4960	ID 150244.8100	1350.1094	T 2626163.4000	61249.2640	1137.5776
x		167.5017	683.0328	2590.9068	ID 145363.5400	1141.0859	T 2531035.2000	59205.7310	925.0582
%RSD		3.656	46.316	11.334	ID 3.434	35.351	T 3.442	3.065	40.747

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:34:14	150.0014	792.5377	345.0071	612.5225	296.6720	909.2163	65.8336	43.3334
2	13:34:51	227.5031	932.5522	412.5102	717.5309	325.0063	900.0486	67.5003	48.3335
3	13:35:27	357.5077	1292.6002	545.0178	812.5396	425.0108	930.8853	76.6670	46.6668
4	13:36:04	332.5066	1095.0719	530.0169	817.5401	370.8416	1017.5621	72.5003	65.8336
5	13:36:41	320.0061	1045.0655	542.5177	735.0324	385.8423	977.5573	76.6670	45.8335
x		277.5050	1031.5655	475.0139	739.0331	360.6746	947.0539	71.8336	50.0002
%RSD		31.202	18.090	19.206	11.331	14.031	5.228	7.028	18.066

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:34:14	964026.9300	1093.8218	2.5000	1075.0693	42.5001	85.0004	1103182.4000	445.0119
2	13:34:51	993877.1200	1176.3330	10.0000	1117.5749	86.2504	201.2524	1145493.8000	530.0169
3	13:35:27	1018613.8000	1195.0857	7.5000	1206.3373	175.0018	412.5102	1163830.4000	602.5218
4	13:36:04	1034089.7000	1313.8536	12.5000	1232.5912	166.2517	358.7577	1192604.6000	540.0175
5	13:36:41	1045833.7000	1251.3439	10.0000	1191.3352	181.2520	381.2587	1212643.7000	565.0192
x		1011288.2000	1206.0876	8.5000	1164.5816	130.2512	287.7559	1163551.0000	536.5174
%RSD		3.244	6.846	44.605	5.648	47.847	48.510	3.653	10.867

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:34:14	6209.8128	70.0003	72.5003	1636033.5000	577.5200	1382.6147	1707.6750	1392.6164
2	13:34:51	6552.5752	87.5005	162.5016	1723763.5000	880.0465	2226.5474	2055.2534	1562.6465
3	13:35:27	6842.8083	142.5012	227.5031	T 1838446.3000	1481.3817	3534.4994	2460.3631	1872.7104
4	13:36:04	6907.8619	82.5004	157.5015	1820025.0000	1238.8421	2859.2404	2307.8195	1830.2010
5	13:36:41	7253.1551	127.5010	230.0032	1864030.6000	1120.0753	2609.1584	2412.8493	1887.7138
x		6753.2427	102.0007	170.0019	T 1776459.8000	1059.5731	2522.4121	2188.7921	1709.1776
%RSD		5.818	30.633	37.923	T 5.333	32.636	31.542	14.219	12.916

Run	Time	208Pb	209Bi	220Bkg
1	13:34:14	3653.3006	1165111.0000	0.0000
2	13:34:51	4106.0113	1235292.9000	0.0000
3	13:35:27	5166.6011	1272701.3000	2.5000
4	13:36:04	4718.8357	1301730.9000	0.0000
5	13:36:41	4908.9454	1336121.0000	0.0000
x		4510.7388	1262191.4000	0.5000
%RSD		13.716	5.208	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:40:10	264789.3500	57771.2260	907435.2400	126223.7600	146450.6600	1202605.6000	46016.7020	606762.4500
2	13:40:47	263469.3200	58063.2450	929137.6500	130331.2700	150338.9900	1229259.5000	46951.8970	615312.7800
3	13:41:23	266516.4500	58194.9920	937010.2800	130737.5600	153292.0600	1232387.5000	47135.4290	621225.7200
4	13:42:00	268360.9100	58271.3570	942082.1500	131621.3100	152090.3400	1235017.5000	47253.5950	618579.3200
5	13:42:37	264760.9700	58288.9790	938332.3600	131509.5600	152171.8000	1232350.0000	47650.8480	618543.0200
x		265579.4000	58117.9600	930799.5400	130084.6900	150868.7700	1226324.0000	47001.6940	616084.6600
%RSD		0.713	0.367	1.492	1.710	1.780	1.094	1.292	0.912

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:40:10	215.0028	299815.5600	280515.6900	ID 75941.9610	363396.8600	1398237.1000	30242.2760	359046.7600
2	13:40:47	205.0025	301582.6300	283641.3700	ID 76875.4620	368885.2900	1434615.3000	31205.8190	367300.0200
3	13:41:23	172.5018	307181.6700	286349.1500	ID 78616.5930	373227.3500	1451300.8000	31870.8290	371194.5100
4	13:42:00	117.5008	304223.5700	288203.9800	ID 79292.9560	373637.6400	1454826.1000	31145.5940	370993.3400
5	13:42:37	127.5010	305053.0900	288139.3000	ID 79101.1460	373020.9100	1458997.2000	32064.0680	376235.7000
x		167.5018	303571.3000	285369.9000	ID 77965.6240	370433.6100	1439595.3000	31305.7170	368954.0700
%RSD		26.343	0.956	1.152	ID 1.898	1.182	1.730	2.293	1.731

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:40:10	80837.6910	201240.8800	96472.7050	114747.1100	98056.0250	26675.9620	10718.5550	50.0001
2	13:40:47	82493.8030	204524.3900	98536.6440	117276.9700	99917.9460	27280.4140	10922.9870	50.0001
3	13:41:23	83688.1230	204831.8000	99356.2900	118029.9900	100514.2200	26951.8470	10931.3320	46.6668
4	13:42:00	83142.7040	208521.6400	98878.1540	117634.4500	100456.8700	27231.9220	10868.7500	49.1668
5	13:42:37	83698.2230	207309.4500	98954.0470	116605.1400	100006.5000	27215.2010	10996.4170	53.3335
x		82772.1090	205285.6300	98439.5680	116858.7300	99790.3110	27071.0690	10887.6080	49.8335
%RSD		1.436	1.372	1.156	1.105	1.007	0.943	0.963	4.789

Run	Time	89Y	107Ag	108Mo Q	109Ag	111Cd	114Cd	115In	118Sn
1	13:40:10	987347.5300	263374.7300	3670.8083	256138.0700	53936.4860	127558.8600	1134395.9000	32.5001
2	13:40:47	1007226.3000	268041.2900	3670.8083	262540.2600	55737.0260	130954.6800	1158984.6000	27.5000
3	13:41:23	1019694.8000	272045.4600	3763.3496	264615.6200	55972.3450	133692.6400	1165564.6000	17.5000
4	13:42:00	1014153.3000	271614.2300	3640.7951	264365.3700	56435.4530	133193.4900	1170130.5000	22.5000
5	13:42:37	1011253.0000	272829.2100	3638.2941	265216.7900	56143.4910	132526.7400	1171986.1000	30.0001
x		1007935.0000	269580.9800	3676.8111	262575.2200	55644.9600	131585.2800	1160212.3000	26.0000
%RSD		1.228	1.456	1.383	1.422	1.776	1.882	1.317	23.157

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:40:10	303106.4500	36301.3960	62949.3630	1723580.9000	463881.5400	1130304.3000	370807.8500	309894.3900
2	13:40:47	311938.5800	36160.7860	64675.0010	1791436.4000	482071.6100	1181414.9000	388591.2600	323112.4700
3	13:41:23	319772.2600	37328.4180	65821.4250	1828601.2000	489265.7500	1200835.5000	394792.7900	329835.8300
4	13:42:00	318593.3700	36667.9950	65861.7420	1828832.1000	494298.8700	1209225.0000	395835.5500	332454.3600
5	13:42:37	319694.3600	36996.9450	65138.5910	1813663.3000	493539.5400	1205652.3000	393776.3500	328081.0600
x		314621.0000	36691.1080	64889.2240	1797222.8000	484611.4600	1185486.4000	388760.7600	324675.6200
%RSD		2.291	1.317	1.837	2.443	2.593	2.755	2.679	2.753

Run	Time	208Pb	209Bi	220Bkg
1	13:40:10	780744.6100	1229373.4000	2.5000
2	13:40:47	815974.2900	1281061.3000	0.0000
3	13:41:23	826433.5300	1303571.9000	0.0000
4	13:42:00	834732.7500	1311876.3000	0.0000
5	13:42:37	827020.1700	1303269.6000	0.0000
x		816981.0700	1285830.5000	0.5000
%RSD		2.610	2.611	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:46:07	264835.7900	15.0000	250.0038	30.0001	55.0002	1272.5972	445.0119	598483.4800
2	13:46:44	268723.1400	44.1668	655.0257	80.0004	115.0008	1577.6493	435.0114	613783.4400
3	13:47:21	269730.7600	108.3340	1685.1704	210.0027	310.0058	2077.7590	527.5167	620420.1500
4	13:47:58	269448.5100	70.8336	1045.0655	160.0015	200.0024	1875.2110	495.0147	626951.6000
5	13:48:35	273339.7100	117.5008	1280.0983	130.0010	215.0028	2112.7678	492.5146	629776.9200
x		269215.5800	71.1671	983.0727	122.0011	179.0024	1783.1968	479.0138	617883.1200
%RSD		1.126	60.487	56.408	57.201	54.716	19.962	8.006	2.020

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:46:07	197.5023	147.5013	1622.6580	ID 3133.0889	175.0018	171139.4600	1595.1527	25.0000
2	13:46:44	165.0016	275.0045	1785.1912	ID 3208.1174	360.0078	175825.5100	1550.1442	240.0035
3	13:47:21	162.5016	560.0188	1960.2305	ID 3475.7247	697.5292	176267.2000	1635.1604	607.5221
4	13:47:58	167.5017	505.0153	1965.2317	ID 3315.6595	605.0220	176828.9100	1400.1176	467.5131
5	13:48:35	132.5011	610.0223	2012.7430	ID 3463.2195	752.5340	178848.8400	1527.6400	505.0153
x		165.0017	419.5125	1869.2109	ID 3319.1620	518.0190	175781.9800	1541.6430	369.0108
%RSD		13.969	47.408	8.707	ID 4.575	47.031	1.616	5.793	63.565

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:46:07	20.0000	325.0063	125.0009	612.5225	15.8333	901.7155	41.6668	49.1668
2	13:46:44	62.5002	420.0106	170.0017	715.0307	59.1669	905.0491	49.1668	43.3334
3	13:47:21	187.5021	717.5309	242.5035	797.5382	151.6681	892.5478	60.0002	48.3335
4	13:47:58	122.5009	627.5236	217.5028	745.0333	100.8339	964.2225	59.1669	61.6669
5	13:48:35	130.0010	712.5305	257.5040	787.5372	112.5008	938.3862	55.0002	41.6668
x		104.5009	560.5204	202.5026	731.5324	88.0006	920.3842	53.0002	48.8335
%RSD		61.957	31.847	26.950	10.163	59.205	3.262	14.436	16.081

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:46:07	952033.5100	85.0004	5.0000	60.0002	5.0000	7.5000	1091677.3000	25.0000
2	13:46:44	981602.0000	91.2505	5.0000	80.0004	22.5000	76.2503	1113109.1000	37.5001
3	13:47:21	996687.4300	200.0024	10.0000	160.0015	86.2504	203.7525	1144414.5000	35.0001
4	13:47:58	1016491.6000	180.0019	15.0000	142.5012	72.5003	158.7515	1160483.3000	20.0000
5	13:48:35	1026053.9000	180.0019	7.5000	137.5011	77.5004	202.5025	1179424.0000	25.0000
x		994573.7000	147.2514	8.5000	116.0009	52.7502	129.7514	1137821.6000	28.5001
%RSD		2.954	37.102	49.215	37.410	69.136	66.094	3.116	26.022

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:46:07	722.5313	5.0000	7.5000	1614147.4000	111.2507	306.2556	60.0002	47.5001
2	13:46:44	937.5527	30.0001	45.0001	1673694.6000	345.0071	798.7883	200.0024	135.0011
3	13:47:21	1085.0706	65.0003	105.0007	1724171.4000	785.0370	2023.9958	487.5143	370.0082
4	13:47:58	990.0588	32.5001	80.0004	1750942.8000	532.5170	1262.5956	350.0074	292.5051
5	13:48:35	947.5539	57.5002	112.5008	1792776.5000	500.0150	1161.3309	387.5090	320.0061
x		936.5535	38.0001	70.0004	1711146.6000	454.7654	1110.5932	297.0067	233.0041
%RSD		14.210	63.000	62.526	4.052	54.667	57.022	56.559	58.333

Run	Time	208Pb	209Bi	220Bxg
1	13:46:07	105.0007	1145082.6000	0.0000
2	13:46:44	377.5086	1190569.6000	0.0000
3	13:47:21	1015.0618	1225922.4000	0.0000
4	13:47:58	657.5259	1252841.0000	0.0000
5	13:48:35	832.5416	1280455.4000	0.0000
x		597.5277	1218974.2000	0.0000
%RSD		60.582	4.349	0.000

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:52:04	269031.1800	615.0227	210.0027	35.0001	25.0000	1535.1414	385.0089	619024.3600
2	13:52:41	273039.2600	615.8561	245.0036	35.0001	25.0000	1432.6231	455.0124	636793.7300
3	13:53:17	275039.2800	639.1912	520.0162	25.0000	100.0006	1592.6522	412.5102	644830.3300
4	13:53:54	276295.6600	647.5252	560.0188	60.0002	100.0006	1737.6812	447.5120	652045.6200
5	13:54:31	279443.9100	657.5259	475.0135	55.0002	95.0005	1672.6679	445.0119	659596.5500
x		274569.8600	635.0242	402.0110	42.0001	69.0004	1594.1531	429.0111	642458.1200
%RSD		1.410	2.996	40.444	35.315	58.287	7.445	6.878	2.427

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:52:04	200.0024	15111.1880	7268.1682	ID 3570.7649	3775.8552	177556.6400	1502.6355	3413.1989
2	13:52:41	200.0024	15551.9980	7460.8384	ID 3520.7436	3880.9035	182667.8500	1437.6240	3768.3518
3	13:53:17	172.5018	15599.5870	7573.4399	ID 3520.7436	3923.4234	183684.8400	1495.1341	3930.9269
4	13:53:54	190.0022	15622.1290	7575.9421	ID 3698.3205	4218.5675	182828.8200	1490.1332	3950.9364
5	13:54:31	185.0021	15774.9170	7826.1732	ID 3810.8712	4223.5700	185057.2100	1362.6114	3998.4590
x		189.5022	15531.9640	7540.9123	ID 3624.2887	4004.4639	182359.0700	1457.6276	3812.3746
%RSD		6.074	1.607	2.689	ID 3.506	5.117	1.561	4.047	6.278

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:52:04	860.0444	4563.7493	1950.2282	1482.6319	493.3479	1493.4671	310.8391	50.8335
2	13:52:41	925.0513	4218.5675	2050.2522	1510.1368	594.1879	1598.4866	354.1742	42.5001
3	13:53:17	880.0465	4433.6791	2102.7653	1510.1368	507.5155	1529.3070	319.1728	55.8335
4	13:53:54	915.0502	4793.8785	2250.3038	1690.1714	575.8532	1617.6570	333.3400	45.0001
5	13:54:31	927.5516	4553.7439	2247.8031	1527.6400	561.6856	1649.3299	349.1740	65.8336
x		901.5488	4512.7237	2120.2705	1544.1434	546.5180	1577.6495	333.3400	52.0002
%RSD		3.326	4.650	6.118	5.389	8.034	4.083	5.596	17.903

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:52:04	989819.0600	2647.9206	52.5002	2586.6514	541.2676	1295.1006	1143669.4000	27.5000
2	13:52:41	1032471.2000	2704.1887	40.0001	2649.1710	563.7691	1338.8575	1185474.1000	17.5000
3	13:53:17	1045415.8000	2840.4840	47.5001	2734.1985	577.5200	1498.8848	1207788.6000	12.5000
4	13:53:54	1069190.2000	2985.5347	62.5002	2842.9849	618.7730	1527.6400	1231159.2000	25.0000
5	13:54:31	1085835.3000	2930.5152	57.5002	2832.9815	586.2706	1502.6355	1249158.5000	22.5000
x		1044546.3000	2821.7286	52.0002	2729.1974	577.5201	1432.6237	1203449.9000	21.0000
%RSD		3.535	5.106	16.793	4.116	4.960	7.487	3.419	28.670

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:52:04	3170.6030	3610.7821	5992.1536	1709495.8000	2309.0699	5425.5156	1842.7037	1525.1396
2	13:52:41	3388.1886	3835.8826	6394.9528	1803869.5000	2331.5761	5691.9432	2032.7479	1695.1724
3	13:53:17	3473.2236	3760.8484	6625.1325	T 1908468.8000	2584.1506	6069.7097	2097.7640	1677.6689
4	13:53:54	3510.7394	3773.3541	6697.6905	T 1939160.6000	2654.1726	6402.4585	2127.7716	1650.1634
5	13:54:31	3778.3564	3930.9269	6757.7389	T 1980861.4000	2569.1460	6409.9643	2172.7832	1785.1912
x		3464.2222	3782.3588	6493.5336	T 1868371.2000	2489.6230	5999.9183	2054.7541	1666.6671
%RSD		6.339	3.098	4.808	T 5.904	6.348	7.264	6.278	5.635

Run	Time	208Pb	209Bi	220Bkg
1	13:52:04	3630.7908	1214762.8000	0.0000
2	13:52:41	3868.3977	1281249.7000	0.0000
3	13:53:17	4101.0088	1327613.5000	0.0000
4	13:53:54	4393.6579	1358501.0000	0.0000
5	13:54:31	4433.6791	1381832.3000	0.0000
x		4085.5069	1312791.9000	0.0000
%RSD		8.393	5.064	0.000

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Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	13:57:58	236807.5300	144.1679	TM 62701591.0000	TM 8687729.4000	TM 10118045.0000	TM 193841320.0000	TM 2121078.3000	519835.8400
2	13:58:35	237172.7000	153.3347	TM 65365989.0000	TM 9069339.0000	TM 10604939.0000	TM 199772050.0000	TM 2211992.0000	535522.6500
3	13:59:11	239836.5000	155.0014	TM 67286547.0000	TM 9357055.0000	TM 10916354.0000	TM 202663810.0000	TM 2271714.6000	543237.5100
4	13:59:48	240780.6500	129.1677	TM 68334744.0000	TM 9563772.9000	TM 11058314.0000	TM 204604240.0000	TM 2314762.5000	551526.2700
5	14:00:25	244274.3100	153.3347	TM 68765051.0000	TM 9582291.1000	TM 11141388.0000	TM 205551870.0000	TM 2337823.4000	559531.9100
x		239774.3400	147.0013	TM 66490784.0000	TM 9252037.5000	TM 10767808.0000	TM 201286660.0000	TM 2251474.1000	541930.8400
%RSD		1.266	7.376	TM 3.747	TM 4.077	TM 3.870	TM 2.341	TM 3.874	2.818

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	13:57:58	409631.3600	7510.8833	52067.1530	ITD 6242607.7000	24668.9590	TM 100542600.0000	TM 2584471.8000	4506.2180
2	13:58:35	418698.2200	7460.8384	52721.2460	ITD 6472081.1000	25265.7430	TM 105334610.0000	TM 2673508.2000	4656.3005
3	13:59:11	420731.9100	7223.1291	53843.3860	ITD 6651552.9000	25744.7060	TM 107810690.0000	TM 2743905.9000	4843.9074
4	13:59:48	427464.3900	7115.5366	55396.0130	ITD 6778763.5000	26105.8270	TM 109232070.0000	TM 2799120.1000	4713.8328
5	14:00:25	433409.9900	7310.7054	55416.1460	ITD 6818105.6000	26421.8200	TM 110024140.0000	TM 2806273.3000	4881.4293
x		421987.1700	7324.2185	53888.7890	ITD 6592622.2000	25641.4110	TM 106588820.0000	TM 2721455.9000	4720.3376
%RSD		2.138	2.238	2.828	ITD 3.606	2.703	TM 3.585	TM 3.427	3.199

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	13:57:58	5404.2518	13961.6860	7853.6991	5664.4245	445.8453	913.3834	50.8335	190.0022
2	13:58:35	5564.3571	14437.4960	7563.4308	5711.9569	480.0138	910.8831	67.5003	195.0023
3	13:59:11	5176.6073	14725.4990	7641.0015	6124.7499	453.3457	930.0519	55.0002	185.0021
4	13:59:48	5449.2811	14552.6960	7798.6474	5894.5840	457.5126	960.8887	64.1669	208.3359
5	14:00:25	5434.2713	14730.5080	8083.9191	6037.1861	474.1802	964.2225	55.0002	187.5021
x		5405.7537	14481.5770	7788.1396	5886.5803	462.1795	935.8859	58.5002	193.1689
%RSD		2.622	2.180	2.600	3.390	3.114	2.721	11.978	4.788

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	13:57:58	806945.3800	125.0009	1420.1210	158.7515	1701.4237	2991.7870	986654.7200	195.0023
2	13:58:35	837875.9400	128.7510	1447.6257	153.7514	1710.1755	2836.7327	1031631.1000	200.0024
3	13:59:11	856416.1400	107.5007	1545.1432	155.0014	1736.4309	2895.5029	1057384.1000	210.0027
4	13:59:48	871686.8600	115.0008	1500.1350	118.7509	1753.9346	2881.7482	1075466.0000	240.0035
5	14:00:25	875067.6600	122.5009	1352.6098	141.2512	1687.6709	2859.2404	1079495.5000	222.5030
x		849598.4000	119.7509	1453.1269	145.5013	1717.9271	2893.0023	1046126.3000	213.5028
%RSD		3.298	7.095	5.092	11.228	1.564	2.059	3.655	8.509

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	13:57:58	1690.1714	432.5112	805.0389	1454001.5000	57.5002	142.5012	7198.1074	5654.4177
2	13:58:35	1745.1827	487.5143	720.0311	1527174.7000	65.0003	142.5012	7588.4535	5794.5139
3	13:59:11	1762.6864	477.5137	847.5431	1576080.3000	52.5002	150.0014	7663.5222	5726.9672
4	13:59:48	1852.7059	575.0198	867.5452	1616562.9000	58.7502	132.5011	7630.9923	6142.2628
5	14:00:25	1977.7347	475.0135	815.0399	1626141.0000	63.7502	126.2510	8041.3780	6214.8166
x		1805.6962	489.5145	811.0396	1559992.1000	59.5002	138.7512	7624.4907	5906.5956
%RSD		6.233	10.673	6.991	4.549	8.482	6.742	3.926	4.308

Run	Time	208Pb	209Bi	220Bkg
1	13:57:58	14016.7780	1002663.4000	0.0000
2	13:58:35	14978.4490	1052453.3000	0.0000
3	13:59:11	15146.2520	1093887.2000	0.0000
4	13:59:48	15243.9300	1124693.3000	0.0000
5	14:00:25	15391.7010	1122259.3000	0.0000
x		14955.4220	1079191.3000	0.0000
%RSD		3.649	4.795	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:03:52	236071.2400	9955.9437	TM 63651165.0000	TM 8863033.6000	TM 10327940.0000	TM 196885820.0000	TM 2168028.2000	532968.9800
2	14:04:28	239564.6800	9976.8020	TM 66077693.0000	TM 9148491.8000	TM 10671121.0000	TM 200779340.0000	TM 2232342.9000	543388.1200
3	14:05:05	242492.5600	10104.4560	TM 68180316.0000	TM 9466058.4000	TM 11035049.0000	TM 204668180.0000	TM 2302654.8000	556258.2800
4	14:05:42	244201.3900	10111.9650	TM 69577351.0000	TM 9647832.1000	TM 11254693.0000	TM 206834820.0000	TM 2337723.0000	565237.0300
5	14:06:19	244088.1400	10202.9090	TM 70302774.0000	TM 9703473.5000	TM 11340133.0000	TM 206507160.0000	TM 2368023.4000	566291.3700
x		241283.6000	10070.4150	TM 67557860.0000	TM 9365777.9000	TM 10925787.0000	TM 203135060.0000	TM 2281754.5000	552828.7600
%RSD		1.435	1.021	TM 4.017	TM 3.789	TM 3.867	TM 2.089	TM 3.560	2.606

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:03:52	414960.5500	62359.9560	104129.0300	ITD 6325053.3000	90134.8350	TM 102273150.0000	TM 2611559.3000	69004.5190
2	14:04:28	419636.1800	62566.4960	105230.2400	ITD 6553676.1000	92776.0850	TM 106121070.0000	TM 2696519.7000	69906.9950
3	14:05:05	427832.5800	64256.7850	108256.1300	ITD 6757045.5000	94467.4280	TM 108838340.0000	TM 2773220.3000	72249.3460
4	14:05:42	434507.4900	65347.7190	108471.4000	ITD 6866259.7000	96017.4930	TM 110493970.0000	TM 2809283.0000	71782.8410
5	14:06:19	432133.7100	64271.9010	109350.2700	ITD 6909695.6000	95741.8490	TM 112061700.0000	TM 2846007.0000	72446.0430
x		425814.1000	63760.5710	107087.4100	ITD 6682346.1000	93827.5380	TM 107957650.0000	TM 2747317.8000	71077.9490
%RSD		1.949	1.986	2.119	ITD 3.630	2.589	TM 3.580	TM 3.417	2.158

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:03:52	19232.1670	47417.0200	23380.2520	14505.1130	8670.3415	2903.8392	920.8842	204.1692
2	14:04:28	20154.3420	48319.6830	23944.3510	14460.0350	8817.9963	2984.7011	887.5473	211.6694
3	14:05:05	20502.6910	49992.0040	24623.8260	15351.6270	8958.1456	2994.7047	896.7149	200.0024
4	14:05:42	20309.7190	49823.4990	24831.9420	15461.8310	9067.4304	3010.5437	924.2179	186.6688
5	14:06:19	20427.5060	50937.7050	24999.9440	15406.7290	9102.4686	3099.7431	903.3823	208.3359
x		20125.2850	49297.9820	24356.0630	15037.0670	8923.2765	2998.7063	906.5493	202.1691
%RSD		2.565	2.858	2.780	3.378	2.014	2.332	1.731	4.804

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	14:03:52	826502.3800	42379.9900	2032.7479	41215.4210	10505.3680	23816.4850	1001392.0000	215.0028
2	14:04:28	852653.0300	43608.8060	2072.7577	42530.7560	11074.8540	24736.6600	1040546.7000	190.0022
3	14:05:05	872337.4500	44993.6390	2070.2571	43767.1330	11056.0790	25045.0790	1072336.0000	240.0035
4	14:05:42	889585.8500	44999.9220	2032.7479	44749.8310	11415.3130	25732.1670	1090644.3000	212.5027
5	14:06:19	897536.9500	46113.4850	2142.7755	45021.2870	11366.4970	25813.6690	1103881.6000	220.0029
x		867723.1300	44419.1690	2070.2572	43456.8860	11083.6220	25028.8120	1061760.1000	215.5028
%RSD		3.317	3.253	2.171	3.656	3.269	3.262	3.887	8.301

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:03:52	27976.8840	6835.3021	12036.1860	1484079.4000	38906.8630	93817.6490	38134.5550	31649.9890
2	14:04:28	29589.9410	7278.1769	12622.0520	1552296.7000	41220.4460	99730.7230	40347.4390	33180.9270
3	14:05:05	30259.8400	7358.2472	12995.1250	1605615.6000	42766.9600	102902.6900	42410.1430	34569.0530
4	14:05:42	30453.0420	7513.3855	13185.4230	1650006.2000	44234.5910	106859.5200	43201.6940	35377.4350
5	14:06:19	31198.2910	7681.0383	13470.8790	1684475.2000	44906.9230	108576.5000	44254.6980	36130.6560
x		29895.5990	7333.2300	12861.9330	1595294.6000	42407.1570	102377.4200	41669.7060	34181.6120
%RSD		4.068	4.339	4.316	4.982	5.701	5.759	5.857	5.231

Run	Time	208Pb	209Bi	220Bkg
1	14:03:52	78616.5930	994448.3800	0.0000
2	14:04:28	84152.7670	1067312.0000	2.5000
3	14:05:05	87044.7450	1098824.0000	0.0000
4	14:05:42	90324.3710	1132846.0000	0.0000
5	14:06:19	91780.1480	1152606.7000	0.0000
x		86383.7250	1089207.4000	0.5000
%RSD		6.081	5.711	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:09:46	261246.8000	144157.8600	769127.7600	110208.9700	127249.1800	653002.6300	23966.9150	621615.7500
2	14:10:23	261386.0600	145957.1100	819110.7500	114004.5200	134207.0600	717511.9800	24899.6440	632958.6900
3	14:11:00	263028.2000	145888.4200	835399.8900	115530.3200	135279.1900	736329.4700	25172.9630	635869.5000
4	14:11:37	261984.4200	144755.5900	834280.6600	115662.1300	135426.5500	748836.1400	25476.3830	634729.8500
5	14:12:14	261216.7100	145509.3800	817812.0100	115469.4900	133236.6700	722572.4400	25388.6160	634929.2100
x		261772.4400	145253.6800	815146.2200	114175.0900	133079.7300	715650.5300	24980.9040	632020.6000
%RSD		0.293	0.535	3.313	2.030	2.538	5.184	2.438	0.935

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:09:46	327.5064	766126.8200	725604.6900	ID 82526.6250	941660.7800	1441114.1000	30799.3110	936996.3300
2	14:10:23	395.0094	774535.9000	738333.1500	ID 87976.9580	964158.4200	1513802.2000	32483.1860	952547.5800
3	14:11:00	460.0127	785910.4900	747072.9400	ID 87557.5760	970567.2800	1534855.2000	32498.2450	958802.6200
4	14:11:37	510.0156	781840.5600	749797.0500	ID 88722.2980	963240.8500	1544052.3000	32714.0870	957418.7500
5	14:12:14	467.5131	785748.7600	740323.6500	ID 88724.8250	970385.3100	1528223.4000	32161.9440	955218.9800
x		432.0114	778832.5100	740226.3000	ID 87101.6560	962002.5300	1512409.4000	32131.3550	952196.8500
%RSD		16.539	1.087	1.274	ID 2.992	1.234	2.734	2.397	0.926

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:09:46	209049.6200	516909.4600	248034.6400	142803.1700	124807.6700	32908.1820	13185.4230	50.8335
2	14:10:23	211838.7500	525510.7100	251570.8100	144507.1700	127036.8100	33228.6170	13418.2940	55.0002
3	14:11:00	213859.3800	528519.8500	254551.8100	147175.7700	128032.7100	33624.3660	13379.0650	53.3335
4	14:11:37	212731.0500	527545.9500	252457.0100	145733.2400	128239.1800	33515.5960	13528.4720	50.8335
5	14:12:14	214151.7500	525516.0300	253134.6100	148165.5800	127910.0200	33339.0560	13707.9320	48.3335
x		212326.1100	524800.4000	251949.7800	145676.9900	127205.2800	33323.1630	13443.8370	51.6668
%RSD		0.966	0.877	0.970	1.459	1.114	0.834	1.433	4.971

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	14:09:46	1004946.7000	685087.6000	9215.0923	669001.1900	138251.1200	330033.4200	1172507.4000	42.5001
2	14:10:23	1030038.5000	701418.3600	9337.7287	684189.3700	142571.7600	339319.1600	1197273.4000	25.0000
3	14:11:00	1042796.0000	710104.8100	9372.7680	697835.5000	145450.8800	342845.4300	1216269.5000	20.0000
4	14:11:37	1048222.8000	715150.0800	9868.3396	695500.6400	143507.6200	342957.4000	1215593.1000	47.5001
5	14:12:14	1046491.6000	709493.3800	9595.5213	695579.3200	144750.0800	343788.0900	1212197.7000	30.0001
x		1034499.1000	704250.8500	9477.8899	688421.2000	142906.2900	339788.7000	1202768.2000	33.0001
%RSD		1.739	1.674	2.721	1.757	1.980	1.683	1.545	35.290

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:09:46	383466.8800	91944.4440	159461.2100	1789685.7000	578619.0000	1417234.9000	487411.6900	388180.2500
2	14:10:23	396839.1300	94270.2130	167231.3100	1854248.3000	602060.3500	1485568.0000	508417.7100	408705.0000
3	14:11:00	406941.7700	95615.4090	168539.7800	T 1941960.1000	614428.4700	1514428.4000	518225.0200	414779.3600
4	14:11:37	407511.1100	95997.2620	167386.8900	T 1935571.0000	613520.0700	1508380.8000	518642.3100	412752.3400
5	14:12:14	405687.8000	96824.2470	168223.4800	T 1945292.0000	616924.3900	1516783.4000	521752.7500	413046.3900
x		400089.3400	94930.3150	166168.5300	T 1893351.4000	605110.4600	1488479.1000	510889.9000	407492.6700
%RSD		2.562	2.009	2.281	T 3.651	2.624	2.801	2.749	2.705

Run	Time	208Pb	209Bi	220Bkg
1	14:09:46	993787.3000	1280662.6000	0.0000
2	14:10:23	1042533.5000	1333754.2000	0.0000
3	14:11:00	1060254.2000	1356932.3000	2.5000
4	14:11:37	1058161.6000	1357938.1000	2.5000
5	14:12:14	1056798.9000	1355900.3000	0.0000
x		1042307.1000	1337037.5000	1.0000
%RSD		2.687	2.474	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:15:43	260376.0000	23.3334	2330.3258	330.0065	425.0108	5714.4586	505.0153	616155.5100
2	14:16:19	264305.1700	43.3334	10812.0090	1480.1314	1815.1977	27941.7660	797.5382	633496.0600
3	14:16:56	266017.5500	61.6669	19522.8420	2845.4857	2990.5365	50057.3940	1140.0780	644776.3800
4	14:17:33	266915.5900	54.1668	13831.4690	2010.2424	2520.3811	36976.8560	932.5522	648168.7400
5	14:18:10	266547.4200	52.5002	13751.3370	1965.2317	2175.2839	38172.2270	890.0475	654622.6200
x		264832.3500	47.0001	12049.5970	1726.2196	1985.2820	31772.5400	853.0462	639443.8600
%RSD		1.014	31.384	52.145	53.413	49.072	52.100	27.133	2.362

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:15:43	212.5027	277.5046	1657.6649	ID 3770.8530	232.5032	182026.5400	1552.6446	107.5007
2	14:16:19	317.5061	540.0175	1767.6875	ID 4341.1304	345.0071	196223.3300	1932.7241	202.5025
3	14:16:56	260.0041	612.5225	1932.7241	ID 5236.6448	500.0150	209216.2300	2107.7665	405.0098
4	14:17:33	272.5045	420.0106	2007.7418	ID 4733.8442	425.0108	206632.9600	1987.7370	265.0042
5	14:18:10	280.0047	392.5092	1925.2224	ID 4961.4765	340.0069	207329.9500	2035.2485	247.5037
x		268.5044	448.5129	1858.2081	ID 4608.7898	368.5086	200285.8000	1923.2242	245.5042
%RSD		14.130	29.169	7.649	ID 12.408	27.254	5.690	11.278	44.021

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:15:43	32.5001	430.0111	137.5011	70.0003	14.1667	1056.7337	46.6668	56.6669
2	14:16:19	57.5002	550.0181	152.5014	110.0007	37.5001	1108.4070	51.6668	49.1668
3	14:16:56	125.0009	640.0246	175.0018	142.5012	50.0001	1142.5783	65.8336	53.3335
4	14:17:33	87.5005	600.0216	147.5013	120.0009	51.6668	1158.4138	60.8336	55.8335
5	14:18:10	95.0005	645.0250	167.5017	95.0005	41.6668	1195.0857	58.3335	57.5002
x		79.5004	573.0201	156.0015	107.5007	39.0001	1132.2437	56.6669	54.5002
%RSD		44.771	15.458	9.722	25.262	38.622	4.634	13.357	6.173

Run	Time	89Y	107Ag	108Mo Q	109Ag	111Cd	114Cd	115In	118Sn
1	14:15:43	993237.1400	102.5006	2.5000	101.2506	7.5000	17.5000	1132736.2000	20.0000
2	14:16:19	1021485.5000	157.5015	7.5000	98.7506	30.0001	81.2504	1166529.1000	20.0000
3	14:16:56	1036972.0000	201.2524	5.0000	192.5022	47.5001	145.0013	1189226.6000	27.5000
4	14:17:33	1056162.8000	173.7518	7.5000	157.5015	35.0001	118.7509	1201999.2000	30.0001
5	14:18:10	1063736.4000	175.0018	5.0000	190.0022	43.7501	91.2505	1222906.2000	30.0001
x		1034318.8000	162.0016	5.5000	148.0014	32.7501	90.7506	1182679.5000	25.5000
%RSD		2.735	22.698	38.030	31.048	48.007	52.798	2.926	20.092

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:15:43	735.0324	7.5000	12.5000	1696106.0000	190.0022	476.2636	67.5003	27.5000
2	14:16:19	980.0576	27.5000	30.0001	T 1824431.6000	320.0061	785.0370	117.5008	137.5011
3	14:16:56	965.0559	35.0001	82.5004	1808682.1000	392.5092	1001.3102	242.5035	207.5026
4	14:17:33	805.0389	27.5000	42.5001	T 1904467.1000	336.2568	810.0394	175.0018	155.0014
5	14:18:10	812.5396	17.5000	32.5001	T 1921023.8000	340.0069	688.7785	155.0014	147.5013
x		859.5449	23.0000	40.0001	T 1830942.1000	315.7563	752.2857	151.5016	135.0013
%RSD		12.522	46.371	65.252	T 4.903	23.874	25.452	43.104	48.820

Run	Time	208Pb	209Bi	220Bkg
1	14:15:43	135.0011	1202082.6000	2.5000
2	14:16:19	280.0047	1257421.4000	0.0000
3	14:16:56	462.5128	1281275.8000	0.0000
4	14:17:33	350.0074	1309997.3000	0.0000
5	14:18:10	345.0071	1332382.3000	0.0000
x		314.5066	1276631.9000	0.5000
%RSD		38.125	3.950	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:21:40	270121.4500	22.5000	1850.2054	195.0023	260.0041	6457.5010	662.5263	631696.8800
2	14:22:17	269606.8400	49.1668	12729.7150	1715.1765	1840.2032	31697.6700	1040.0649	643916.0300
3	14:22:53	272504.6800	46.6668	21618.0040	3145.5936	3770.8530	60123.6110	1302.6018	648197.0700
4	14:23:30	271030.2500	60.0002	22204.5430	3195.6126	3685.8149	63065.2340	1232.5912	651604.2700
5	14:24:07	274192.0300	49.1668	14187.0660	2005.2412	2120.2697	41297.0740	972.5568	658768.4900
x		271491.0500	45.5001	14517.9070	2051.3252	2335.4290	40528.2180	1042.0682	646836.5500
%RSD		0.688	30.444	56.933	60.042	62.356	56.955	24.137	1.555

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:21:40	240.0035	14803.1360	2442.8580	ID 3785.8598	152.5014	180703.2000	1492.6337	40.0001
2	14:22:17	307.5057	15436.7840	2550.3902	ID 4743.8499	405.0098	194135.2700	1622.6580	160.0015
3	14:22:53	342.5070	15146.2520	2715.4423	ID 5817.0296	545.0178	212841.3100	1970.2329	352.5075
4	14:23:30	347.5073	14845.7120	2515.3796	ID 5789.5104	522.5164	214546.7200	1995.2388	325.0063
5	14:24:07	252.5038	15078.6300	2437.8565	ID 5041.5246	342.5070	202846.6200	1727.6791	170.0017
x		298.0055	15062.1030	2532.3853	ID 5035.5548	393.5105	201014.6300	1761.6885	209.5034
%RSD		16.741	1.698	4.462	ID 16.692	40.264	6.975	12.401	61.560

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:21:40	37.5001	632.5240	202.5025	295.0052	390.0091	880.8799	48.3335	48.3335
2	14:22:17	75.0003	750.0338	187.5021	380.0087	418.3438	933.3856	48.3335	40.8334
3	14:22:53	105.0007	872.5457	170.0017	392.5092	450.0122	940.8865	55.8335	45.0001
4	14:23:30	110.0007	825.0408	215.0028	342.5070	459.1793	895.0481	55.8335	44.1668
5	14:24:07	107.5007	777.5363	197.5023	357.5077	442.5118	867.5452	55.8335	60.8336
x		87.0005	771.5361	194.5023	353.5076	432.0112	903.5490	52.8335	47.8335
%RSD		35.741	11.753	8.689	10.756	6.468	3.572	7.775	16.184

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	14:21:40	1019624.4000	125.0009	0.0000	115.0008	2.5000	1.2500	1166657.9000	35.0001
2	14:22:17	1038549.0000	172.5018	5.0000	147.5013	33.7501	81.2504	1208999.2000	82.5004
3	14:22:53	1059462.4000	206.2526	7.5000	170.0017	35.0001	101.2506	1235210.7000	50.0001
4	14:23:30	1072285.0000	175.0018	10.0000	170.0017	68.7503	123.7509	1242776.6000	47.5001
5	14:24:07	1085061.0000	168.7517	7.5000	105.0007	35.0001	83.7504	1259471.7000	55.0002
x		1054996.4000	169.5018	6.0000	141.5013	35.0001	78.2505	1222623.2000	54.0002
%RSD		2.483	17.126	63.191	21.480	66.958	59.144	2.960	32.507

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:21:40	325.0063	7.5000	0.0000	1791105.3000	87.5005	168.7517	145.0013	110.0007
2	14:22:17	425.0108	25.0000	40.0001	T 1913260.7000	251.2538	628.7737	230.0032	160.0015
3	14:22:53	472.5134	60.0002	55.0002	T 1971896.1000	300.0054	792.5377	285.0049	215.0028
4	14:23:30	492.5146	32.5001	67.5003	T 2008873.9000	273.7545	627.5236	262.5041	237.5034
5	14:24:07	412.5102	30.0001	30.0001	T 2027817.9000	166.2517	382.5088	257.5040	140.0012
x		425.5111	31.0001	38.5001	T 1942590.8000	215.7532	520.0191	236.0035	172.5019
%RSD		15.307	61.046	67.107	T 4.906	40.554	47.099	23.095	30.607

Run	Time	208Pb	209Bi	220Bkg
1	14:21:40	215.0028	1272195.9000	0.0000
2	14:22:17	487.5143	1340129.7000	0.0000
3	14:22:53	497.5149	1373786.8000	0.0000
4	14:23:30	522.5164	1406951.2000	0.0000
5	14:24:07	367.5081	1421829.0000	0.0000
x		418.0113	1362978.5000	0.0000
%RSD		30.691	4.383	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:27:35	265705.3200	56897.7470	910877.1100	127203.4900	149239.4900	1220610.8000	45694.9390	606398.5900
2	14:28:12	266445.0500	57116.7370	948173.3700	133135.0700	153714.7400	1261620.8000	46491.8290	613608.7600
3	14:28:49	267829.2100	58170.6570	963864.6700	133988.5900	153775.8500	1273622.4000	47467.3050	621957.3900
4	14:29:25	268847.9100	57153.6560	971695.6100	132962.3400	156531.4500	1284804.8000	48090.8650	624864.4900
5	14:30:02	268600.1100	57173.7930	972731.6800	135838.1700	155553.3900	1267237.5000	47929.9420	624666.7100
x		267485.5200	57302.5180	953468.4900	132625.5300	153762.9800	1261579.2000	47134.9760	618299.1900
%RSD		0.511	0.869	2.701	2.442	1.820	1.940	2.159	1.306

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:27:35	250.0038	311865.9300	280725.0700	ID 76512.1410	360546.9900	1403575.3000	30445.5140	361468.1400
2	14:28:12	340.0069	315130.3600	281715.1600	ID 78959.8150	364931.8000	1446330.0000	31163.1600	364253.0500
3	14:28:49	285.0049	320478.6300	282382.1700	ID 80913.4210	369642.7700	1464877.4000	31594.7800	371432.2600
4	14:29:25	257.5040	319585.2900	284386.1200	ID 81370.3380	372453.8800	1481363.8000	31263.5350	371735.3400
5	14:30:02	235.0033	319930.6700	284621.4500	ID 80514.5860	372986.9400	1474003.9000	31813.1090	369042.0000
x		273.5046	317398.1800	282765.9900	ID 79654.0600	368112.4800	1454030.1000	31256.0200	367586.1600
%RSD		15.125	1.183	0.599	ID 2.481	1.439	2.139	1.671	1.237

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:27:35	81266.8350	202754.4200	96333.6100	111645.4100	95322.9200	25660.2800	10249.6330	48.3335
2	14:28:12	83077.0540	201000.1800	97459.0830	112390.3200	96567.9660	25661.1150	10600.0710	67.5003
3	14:28:49	82496.3270	203853.2400	98670.7170	113056.7400	98024.8280	26168.5230	10580.8800	55.8335
4	14:29:25	83821.9580	207148.0100	99867.3450	115352.8900	98496.1700	26226.2040	10782.8050	64.1669
5	14:30:02	83695.6980	205131.5400	98658.0680	115226.1500	99478.5700	25999.6620	10620.0960	55.8335
x		82871.5740	203977.4800	98197.7650	113534.3000	97578.0910	25943.1570	10566.6970	58.3335
%RSD		1.257	1.143	1.370	1.479	1.681	1.044	1.841	13.015

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	14:27:35	977543.9700	258126.8000	3605.7799	251977.8300	53312.4900	125157.8600	1127861.7000	115.0008
2	14:28:12	988517.2800	263030.3500	3545.7542	257140.7500	53936.4860	127916.7800	1146641.8000	150.0014
3	14:28:49	1002406.3000	268774.3400	3698.3205	260903.8000	55179.5840	130542.0300	1173346.6000	115.0008
4	14:29:25	1016528.2000	270044.4300	3615.7843	263561.7500	55744.5760	131429.5600	1178148.6000	145.0013
5	14:30:02	1026727.3000	271779.4900	3605.7799	264206.7000	55734.5090	131974.3200	1182847.1000	127.5010
x		1002344.6000	266351.0800	3614.2838	259558.1700	54781.5290	129404.1100	1161769.2000	130.5010
%RSD		1.997	2.121	1.509	1.953	2.013	2.194	2.030	12.591

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:27:35	300403.6800	34732.2290	61773.1100	1725008.6000	456549.0200	1115563.3000	368033.8500	307791.0500
2	14:28:12	307918.1200	36321.4830	63788.2050	1778444.4000	473081.4700	1160225.9000	380552.7500	317653.4900
3	14:28:49	313267.0400	36798.5690	64344.9610	T 1858575.4000	486107.4800	1194875.6000	392956.4800	326604.7300
4	14:29:25	322008.4400	36695.6170	65549.2930	1845342.8000	494587.7800	1208178.2000	399242.4400	333505.1200
5	14:30:02	322107.1500	37130.0340	64753.1040	T 1894608.6000	499472.8600	1220707.3000	401046.0200	334777.1300
x		313140.8900	36335.5860	64041.7350	T 1820396.0000	481959.7200	1179910.0000	388366.3100	324066.3000
%RSD		2.981	2.591	2.220	T 3.730	3.606	3.600	3.583	3.506

Run	Time	208Pb	209Bi	220Bkg
1	14:27:35	768520.3800	1222723.3000	2.5000
2	14:28:12	796956.8200	1263738.5000	2.5000
3	14:28:49	821441.8100	1303901.8000	0.0000
4	14:29:25	835532.2200	1325930.7000	0.0000
5	14:30:02	843497.9000	1327789.8000	0.0000
x		813189.8300	1288816.8000	1.0000
%RSD		3.763	3.496	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:33:31	266487.2000	26.6667	T 12716820.0000	T 1781698.7000	T 2059042.1000	385332.5500	TM 2057855.2000	586613.6900
2	14:34:08	267906.6400	53.3335	T 13292225.0000	T 1851299.3000	T 2133023.7000	409166.8500	TM 2134290.0000	598849.6900
3	14:34:45	269654.1700	69.1670	T 13606179.0000	T 1888075.2000	T 2206808.2000	420516.4300	TM 2197701.3000	614492.9800
4	14:35:21	272241.2800	60.0002	T 13797907.0000	T 1918294.8000	T 2224180.8000	416791.1000	TM 2232568.7000	617427.1500
5	14:35:58	272815.4400	71.6670	T 13988837.0000	T 1924156.4000	T 2234236.4000	415162.7600	TM 2253684.9000	618136.9900
x		269820.9500	56.1669	T 13480394.0000	T 1872704.9000	T 2171458.3000	409393.9400	TM 2175220.0000	607104.1000
%RSD		1.009	32.124	T 3.697	T 3.125	T 3.422	3.434	TM 3.663	2.287

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:33:31	1530.1405	18633.3090	3853.3907	ID 14136.9810	133818.3800	374173.3900	37509.2270	1487.6328
2	14:34:08	1370.1126	18841.2760	4238.5777	ID 14399.9310	135223.2900	383940.4600	35728.9300	1695.1724
3	14:34:45	1435.1236	19076.8110	4043.4807	ID 15757.3840	139294.5300	398131.1200	34082.0530	1682.6699
4	14:35:21	1385.1151	19400.0550	4313.6161	ID 15559.5120	140476.6200	399014.4000	33600.1020	1652.6639
5	14:35:58	1355.1102	19705.7720	4226.0713	ID 15564.5220	141343.6000	400178.2600	34393.3280	1537.6418
x		1415.1204	19131.4440	4135.0273	ID 15083.6660	138031.2900	391087.5200	35062.7280	1611.1561
%RSD		5.016	2.244	4.502	ID 5.000	2.408	2.950	4.505	5.769

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:33:31	2918.0108	6269.8578	3120.5842	56624.2270	1172.5825	845.0428	75.8337	47.5001
2	14:34:08	2780.4638	6449.9952	3190.6107	58527.3080	1245.9265	859.2110	94.1672	54.1668
3	14:34:45	2705.4391	6825.2939	3190.6107	59829.0020	1244.2596	840.0423	83.3337	34.1667
4	14:35:21	2772.9613	6690.1844	3380.6856	59844.1100	1265.9295	850.0434	75.0003	50.0001
5	14:35:58	2687.9334	6877.8371	3425.7040	60410.6760	1291.7668	869.2120	70.8336	50.0001
x		2772.9617	6622.6337	3261.6390	59047.0650	1244.0930	852.7103	79.8337	47.1668
%RSD		3.270	3.887	4.087	2.575	3.565	1.364	11.515	16.222

Run	Time	89Y	107Ag	108Ho O	109Ag	111Cd	114Cd	115In	118Sn
1	14:33:31	921130.0800	1068.8185	40.0001	960.0553	610.0223	1583.9005	1052621.4000	45.0001
2	14:34:08	955031.7300	1218.8391	62.5002	1212.5882	686.2783	1767.6875	1093071.0000	42.5001
3	14:34:45	974386.8300	1271.3470	57.5002	1246.3432	732.5322	1831.4512	1117588.4000	37.5001
4	14:35:21	994851.2300	1228.8406	47.5001	1151.3295	772.5358	1847.7048	1135071.8000	65.0003
5	14:35:58	993147.3200	1105.0733	67.5003	1120.0753	750.0338	1883.9629	1151220.8000	37.5001
x		967709.4400	1178.5837	55.0002	1138.0783	710.2805	1782.9414	1109914.7000	45.5001
%RSD		3.168	7.373	20.328	9.771	9.064	6.672	3.479	24.999

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:33:31	2507.8773	81042.1630	142579.3900	1613272.2000	450.0122	997.5597	14903.3150	12952.5580
2	14:34:08	2918.0108	84137.6150	148432.7700	1690584.4000	583.7705	1615.1565	16143.1210	14009.2660
3	14:34:45	3178.1059	87254.4210	153437.1900	1755205.6000	628.7737	1491.3834	16553.9260	14259.6900
4	14:35:21	2903.0056	89338.8320	156857.4900	1790262.1000	548.7681	1272.5972	16759.3360	14672.9060
5	14:35:58	2837.9832	89217.5430	158327.4000	1820061.9000	398.7595	1012.5615	16759.3360	14707.9680
x		2868.9965	86198.1150	151926.8500	1733877.2000	522.0168	1277.8517	16223.8060	14120.4780
%RSD		8.367	4.139	4.255	4.781	18.250	21.727	4.807	5.065

Run	Time	208Pb	209Bi	220Bkg
1	14:33:31	32701.5380	1093591.9000	0.0000
2	14:34:08	34719.6770	1153409.8000	0.0000
3	14:34:45	35533.0950	1199748.1000	0.0000
4	14:35:21	36429.4530	1224005.1000	0.0000
5	14:35:58	37436.4010	1251198.2000	0.0000
x		35364.0330	1184390.6000	0.0000
%RSD		5.090	5.251	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:39:27	255322.3500	120.0009	T 2905304.3000	419389.2000	483246.8300	T 7196173.1000	438635.5400	594926.8600
2	14:40:03	257692.8400	119.1675	T 2990297.5000	432125.8100	502364.1200	T 7371164.9000	M 453447.6300	602896.4200
3	14:40:41	258408.6700	158.3348	T 3055100.6000	440344.7400	511229.6500	T 7435831.2000	M 464280.3600	613467.6600
4	14:41:17	259303.3200	139.1678	T 3072343.0000	437916.6700	510666.6600	T 7404515.1000	M 468198.1900	614073.7000
5	14:41:54	261243.3600	138.3345	T 3046080.5000	438285.3200	509184.9900	T 7399769.1000	M 466784.6000	616576.2300
x		258394.1100	135.0011	T 3013825.2000	433612.3500	503338.4500	T 7361490.7000	M 458269.2600	608388.1800
%RSD		0.841	11.994	T 2.256	1.964	2.340	T 1.293	M 2.708	1.508

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:39:27	8386.7181	43262.0050	14081.8880	ID 160335.2500	256665.1700	T 2786297.6000	70678.4610	4988.9930
2	14:40:03	8927.2792	44468.3300	14645.3580	ID 166405.0100	265018.1200	T 2894039.4000	73406.8970	5144.0872
3	14:40:41	8564.3987	44772.4520	14480.0690	ID 170356.1600	270004.4100	T 2944908.6000	73318.6250	5384.2388
4	14:41:17	8922.2739	44639.2400	14928.3590	ID 170233.6900	271659.4100	T 2946687.9000	74226.6100	5151.5918
5	14:41:54	8707.0464	45101.7210	14890.7920	ID 169886.7200	272635.5300	T 2961792.5000	73379.1540	4961.4765
x		8701.5432	44448.7500	14605.2930	ID 167443.3600	267196.5300	T 2906745.2000	73001.9490	5126.0775
%RSD		2.681	1.581	2.365	ID 2.566	2.462	T 2.478	1.851	3.286

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:39:27	2767.9596	24167.4930	11077.3580	31180.7250	5711.1230	792.5377	79.1670	45.0001
2	14:40:03	2625.4135	25300.8500	11532.9750	31672.5750	5872.0681	819.2069	70.8336	56.6669
3	14:40:41	2725.4456	24897.1370	11380.2650	32337.6220	5940.4499	812.5396	80.0004	61.6669
4	14:41:17	2747.9530	25692.0440	11763.2970	32455.5790	5880.4074	818.3735	76.6670	50.8335
5	14:41:54	2875.4960	25551.6130	11745.7720	33022.8010	6001.3268	810.0394	76.6670	49.1668
x		2748.4536	25121.8270	11499.9330	32133.8600	5881.0751	810.5394	76.6670	52.6668
%RSD		3.264	2.440	2.474	2.231	1.842	1.330	4.675	12.429

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	14:39:27	937325.4400	1658.9151	45.0001	1533.8912	127.5010	285.0049	1068975.0000	215.0028
2	14:40:03	967538.5800	1917.7206	55.0002	1863.9584	157.5015	328.7565	1111976.8000	130.0010
3	14:40:41	983999.0200	2046.5013	47.5001	1988.9873	197.5023	360.0078	1130352.8000	160.0015
4	14:41:17	988688.4100	1966.4820	37.5001	2051.5025	153.7514	360.0078	1143795.0000	150.0014
5	14:41:54	993739.5800	1947.7276	42.5001	1846.4545	161.2516	355.0076	1138215.4000	170.0017
x		974258.2100	1907.4693	45.5001	1856.9588	159.5016	337.7569	1118663.0000	165.0017
%RSD		2.347	7.701	14.222	10.764	15.700	9.538	2.706	19.166

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:39:27	4631.2866	19179.5460	33547.3900	1698345.9000	318.7561	772.5358	64314.7290	54731.6450
2	14:40:03	5044.0261	19577.9710	35472.8390	1788272.5000	498.7649	1186.3344	67749.2830	57945.7650
3	14:40:41	5159.0965	20372.3720	35892.1290	1830263.9000	566.2692	1335.1069	68409.6450	59146.6570
4	14:41:17	5181.6104	20921.2290	36042.7770	1831329.4000	522.5164	1277.5979	69087.7040	59891.9520
5	14:41:54	5021.5125	20377.3840	35982.5170	1835336.8000	503.7652	1101.3228	68770.0940	59778.6430
x		5007.5064	20085.7000	35387.5300	1796709.7000	482.0144	1134.5796	67666.2910	58298.9320
%RSD		4.425	3.471	2.974	3.241	19.722	19.487	2.865	3.669

Run	Time	208Pb	209Bi	220Bkg
1	14:39:27	137586.5000	1162256.8000	0.0000
2	14:40:03	145435.6100	1220841.2000	0.0000
3	14:40:41	149636.5100	1248744.0000	0.0000
4	14:41:17	149781.5800	1255105.6000	0.0000
5	14:41:54	150389.8900	1254255.8000	0.0000
x		146566.0200	1228240.7000	0.0000
%RSD		3.679	3.213	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:45:23	264312.9100	33.3334	T 6942425.3000	1016125.8000	1176211.4000	175314.9200	TM 1842879.2000	587785.8700
2	14:46:00	266291.0800	56.6669	T 7053769.7000	1023631.4000	1197411.3000	191955.6500	TM 1873167.0000	595130.6700
3	14:46:36	268290.3600	54.1668	T 7097629.3000	1049236.8000	1214637.7000	191341.7700	TM 1907570.2000	594327.5300
4	14:47:13	265716.5000	35.0001	T 7270829.2000	1048005.3000	1228928.1000	182747.0600	TM 1928774.2000	596821.6700
5	14:47:50	265827.4600	35.8334	T 7270984.3000	1069360.0000	1231009.3000	178682.8300	TM 1940881.9000	594629.2000
x		266087.6600	43.0001	T 7127127.6000	1041271.9000	1209639.6000	184008.4500	TM 1898654.5000	593738.9900
%RSD		0.540	26.523	T 2.005	2.060	1.903	4.053	TM 2.128	0.584

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:45:23	825.0408	18267.5000	3583.2702	ID 15096.1610	101810.6500	376042.2600	33918.8890	1400.1176
2	14:46:00	807.5391	18868.8380	3445.7122	ID 15471.8490	102865.9900	386491.9300	31115.4820	1387.6155
3	14:46:36	822.5406	19021.6850	3498.2341	ID 15336.6000	103038.1000	385662.2900	31499.4210	1440.1244
4	14:47:13	765.0351	19593.0060	3500.7352	ID 15286.5080	103640.5000	378978.3800	28932.6390	1402.6180
5	14:47:50	737.5326	20008.9930	3523.2446	ID 15156.2700	104098.6600	380550.1300	28664.2140	1297.6010
x		791.5377	19152.0040	3510.2393	ID 15269.4780	103090.7800	381545.0000	30826.1290	1385.6153
%RSD		4.876	3.511	1.417	ID 0.975	0.841	1.167	6.950	3.822

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:45:23	3833.3815	20467.6050	9973.4646	TM 2768941.3000	2722.9448	1357.6106	367.5081	80.8337
2	14:46:00	4103.5101	20868.5970	10471.5750	TM 2812685.8000	2782.1310	1385.9486	370.0082	87.5005
3	14:46:36	4055.9868	20590.4070	10223.7680	TM 2803571.2000	2837.1495	1325.9388	315.0060	89.1671
4	14:47:13	4030.9747	20445.0490	10006.0040	TM 2828397.3000	2787.9663	1316.7707	371.6750	69.1670
5	14:47:50	4013.4662	20933.7600	10243.7920	TM 2849608.4000	2857.1564	1347.6090	340.8403	78.3337
x		4007.4639	20661.0840	10183.7210	TM 2812640.8000	2797.4696	1346.7755	353.0075	81.0004
%RSD		2.571	1.100	1.987	TM 1.068	1.876	2.029	6.996	9.879

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	14:45:23	924568.9600	612.5225	1030.0637	590.0209	15136.2340	34713.4010	1053604.8000	40.0001
2	14:46:00	941518.4600	1061.3176	945.0536	1036.3144	15192.5860	35625.9900	1078237.1000	75.0003
3	14:46:36	944945.7800	946.3037	1012.5615	812.5396	15227.6500	36541.1900	1086694.8000	67.5003
4	14:47:13	950441.2100	716.2808	1132.5770	716.2808	15652.1860	36737.0490	1096239.5000	45.0001
5	14:47:50	956432.0000	648.7753	1152.5797	655.0257	15270.2280	36816.1460	1104117.5000	62.5002
x		943581.2800	797.0400	1054.5671	762.0363	15295.7770	36086.7550	1083778.8000	58.0002
%RSD		1.276	24.672	8.219	22.816	1.342	2.502	1.798	25.754

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:45:23	32468.1280	11380.2650	20169.3790	1643383.8000	1148.8292	2672.9286	284057.7000	247128.3000
2	14:46:00	33293.8760	11783.3250	20402.4450	1702280.7000	1286.3493	3204.3660	297434.9900	253760.7300
3	14:46:36	33293.8760	11675.6740	20430.0120	1723209.6000	1223.8399	3053.0592	299476.1700	261447.9600
4	14:47:13	34318.0180	11895.9850	20597.9250	1741328.2000	1276.3477	2934.2665	304726.4500	266509.5700
5	14:47:50	34019.2970	11848.4170	21034.0120	1767421.7000	1116.3248	3021.7978	309658.3500	270120.5900
x		33478.6390	11716.7330	20526.7550	1715524.8000	1210.3382	2977.2836	299070.7300	259793.4300
%RSD		2.157	1.753	1.569	2.734	6.257	6.586	3.226	3.607

Run	Time	208Pb	209Bi	220Blkg
1	14:45:23	626860.0800	1121966.0000	0.0000
2	14:46:00	647871.9400	1164810.5000	0.0000
3	14:46:36	659946.4400	1183379.0000	0.0000
4	14:47:13	670798.6700	1208661.3000	2.5000
5	14:47:50	685124.1800	1227374.7000	0.0000
x		658120.2600	1181238.3000	0.5000
%RSD		3.377	3.457	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:51:19	264332.6900	20.0000	T 6993886.6000	1022983.6000	1178492.5000	167917.4000	TM 1846429.9000	581300.0300
2	14:51:56	263574.2200	29.1667	T 7170167.1000	1045091.1000	1219202.8000	172440.8800	TM 1894734.9000	588374.0200
3	14:52:33	266636.8800	27.5000	T 7311807.7000	1065244.6000	1247890.4000	177150.6400	TM 1956264.2000	598152.1700
4	14:53:10	269352.1400	38.3334	T 7391238.1000	1074746.4000	1246001.6000	182197.7200	TM 1960856.3000	602162.3400
5	14:53:46	267134.9500	34.1667	T 7451032.5000	1071268.4000	1242473.5000	178989.3100	TM 1973239.9000	598753.1000
x		266206.1800	29.8334	T 7263626.4000	1055866.8000	1226812.2000	175739.1900	TM 1926305.0000	593748.3300
%RSD		0.869	23.320	T 2.531	2.053	2.394	3.198	TM 2.804	1.456

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:51:19	787.5372	20327.2620	3378.1846	ID 14292.2460	100036.8600	361191.5200	30274.8940	1235.0915
2	14:51:56	825.0408	19941.3310	3423.2030	ID 15063.6020	102911.5500	371769.3000	29484.5680	1357.6106
3	14:52:33	720.0311	20928.7480	3368.1805	ID 14695.4460	103951.8400	374458.2700	28548.8180	1282.5987
4	14:53:10	785.0370	20705.6920	3588.2724	ID 15471.8490	105688.4800	378923.4700	28428.4080	1170.0821
5	14:53:46	702.5296	20703.1850	3385.6876	ID 15371.6640	104906.1900	379132.6700	27041.3030	1342.6081
x		764.0352	20521.2430	3428.7056	ID 14978.9620	103498.9800	373095.0500	28755.5980	1277.5982
%RSD		6.685	1.898	2.671	ID 3.264	2.123	1.968	4.234	6.065

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:51:19	3973.4471	19705.7720	9948.4347	TM 2747111.3000	2817.9764	1289.2664	320.8395	85.8338
2	14:51:56	3905.9152	20545.2950	10016.0160	TM 2813234.4000	2782.9646	1322.6049	375.8418	82.5004
3	14:52:33	3800.8666	20758.3220	10343.9160	TM 2835542.7000	2852.9883	1326.7723	339.1736	84.1671
4	14:53:10	3978.4495	20986.3920	10066.0760	TM 2861775.3000	2885.4995	1276.7645	355.0076	87.5005
5	14:53:46	3915.9198	20853.5600	9915.8960	TM 2865882.5000	2849.6538	1269.2633	351.6741	82.5004
x		3914.9196	20569.8680	10058.0680	TM 2824709.2000	2837.8165	1296.9343	348.5073	84.5004
%RSD		1.831	2.475	1.691	TM 1.711	1.370	2.033	5.831	2.572

Run	Time	89Y	107Ag	103Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	14:51:19	915997.9200	476.2636	972.5568	415.0103	14580.2440	35492.9240	1051262.3000	80.0004
2	14:51:56	946135.0500	642.5248	1102.5729	688.7785	15451.8120	36410.6210	1095200.3000	45.0001
3	14:52:33	955532.0000	810.0394	992.5591	817.5401	15940.2310	37028.3330	1112062.2000	65.0003
4	14:53:10	973328.1700	928.8018	1092.5716	923.8012	15845.0500	37563.2190	1123855.8000	32.5001
5	14:53:46	977050.8500	715.0307	1062.5677	667.5267	16109.3060	37846.9990	1126508.1000	37.5001
x		953608.8000	714.5320	1044.5656	702.5314	15585.3280	36868.4190	1101777.7000	52.0002
%RSD		2.575	23.934	5.640	27.220	3.924	2.562	2.797	38.371

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:51:19	33037.8600	11547.9960	20349.8170	1674006.4000	1070.0687	2631.6655	293315.2600	253322.7000
2	14:51:56	33617.6720	11595.5620	20244.5610	1753028.1000	1170.0821	2815.4755	308358.9800	268290.3600
3	14:52:33	34702.1040	12071.2370	20966.3420	T 1849902.1000	1253.8443	3043.0555	316578.7300	274709.5000
4	14:53:10	35259.4360	12036.1860	21640.5620	1839339.7000	1396.3670	2983.0338	322322.7500	279696.3300
5	14:53:46	35196.6720	12599.5180	21259.5840	1853948.8000	1235.0915	2933.0161	326459.1900	284797.3100
x		34362.7490	11970.1000	20892.1730	T 1794045.0000	1225.0907	2881.2493	313406.9800	272163.2400
%RSD		2.883	3.567	2.846	T 4.394	9.771	5.646	4.188	4.473

Run	Time	208Pb	209Bi	220Bkg
1	14:51:19	644818.1900	1160150.1000	0.0000
2	14:51:56	678206.2100	1223015.6000	0.0000
3	14:52:33	700765.4700	1251647.6000	0.0000
4	14:53:10	713356.9900	1279136.5000	0.0000
5	14:53:46	717446.7000	1284513.3000	0.0000
x		690918.7100	1239692.6000	0.0000
%RSD		4.337	4.096	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	14:57:25	263065.1800	20.0000	725.0315	115.0008	100.0006	1170.0821	537.5173	588770.6200
2	14:58:03	263859.7100	13.3333	2030.2473	300.0054	350.0074	1937.7253	772.5358	595720.6700
3	14:58:41	266491.5000	20.0000	3285.6476	435.0114	515.0159	3360.6775	895.0481	609922.3300
4	14:59:19	267578.0000	14.1667	3490.7310	560.0188	545.0178	3590.7735	1062.5677	616784.5900
5	14:59:59	271224.7600	16.6667	3015.5455	370.0082	480.0138	3330.6655	932.5522	617502.4400
x		266443.8300	16.8334	2509.4406	356.0089	398.0111	2677.9848	840.0442	605740.1300
%RSD		1.220	18.655	45.589	46.428	45.838	39.813	23.598	2.130

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	14:57:25	200.0024	1020.0624	1662.6659	ID 3350.6735	160.0015	168894.3500	1235.0915	47.5001
2	14:58:03	160.0015	1000.0600	1620.1575	ID 3460.7184	180.0019	172565.9300	1330.1061	30.0001
3	14:58:41	177.5019	845.0428	1792.6928	ID 3595.7756	255.0039	173234.5900	1465.1288	45.0001
4	14:59:19	180.0019	807.5391	1710.1755	ID 3723.3316	210.0027	174344.8900	1295.1006	67.5003
5	14:59:59	187.5021	842.5426	1512.6373	ID 3623.2875	270.0044	174459.7500	1367.6122	35.0001
x		181.0020	903.0494	1659.6658	ID 3550.7573	215.0029	172699.9000	1338.6079	45.0001
%RSD		8.089	10.969	6.279	ID 4.110	21.940	1.314	6.419	32.155

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	14:57:25	10.0000	172.5018	60.0002	482.5140	23.3334	718.3643	50.0001	48.3335
2	14:58:03	22.5000	165.0016	57.5002	682.5280	21.6667	707.5300	50.0001	48.3335
3	14:58:41	32.5001	192.5022	92.5005	962.5556	23.3334	720.0311	36.6667	49.1668
4	14:59:19	32.5001	190.0022	72.5003	892.5478	29.1667	801.7052	45.0001	51.6668
5	14:59:59	15.0000	167.5017	70.0003	835.0418	23.3334	794.2045	47.5001	42.5001
x		22.5000	177.5019	70.5003	771.0374	24.1667	748.3670	45.8335	48.0001
%RSD		45.134	7.251	19.648	24.831	11.945	6.093	12.060	7.009

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	14:57:25	937660.1400	42.5001	2.5000	38.7501	1.2500	1.2500	1084717.9000	10.0000
2	14:58:03	958620.8800	81.2504	2.5000	96.2506	1.2500	6.2500	1110742.3000	15.0000
3	14:58:41	982538.3000	147.5013	7.5000	158.7515	6.2500	22.5000	1131781.0000	25.0000
4	14:59:19	990781.4900	185.0021	10.0000	195.0023	6.2500	28.7500	1145999.2000	35.0001
5	14:59:59	992049.9200	176.2519	5.0000	150.0014	5.0000	12.5000	1158412.7000	25.0000
x		972330.1500	126.5012	5.5000	127.7512	4.0000	14.2500	1126330.6000	22.0000
%RSD		2.425	49.117	59.265	47.762	64.043	79.578	2.596	44.304

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	14:57:25	52.5002	0.0000	5.0000	T 1724249.8000	65.0003	136.2511	125.0009	57.5002
2	14:58:03	70.0003	5.0000	12.5000	1700340.4000	66.2503	178.7519	107.5007	80.0004
3	14:58:41	115.0008	20.0000	27.5000	1759455.1000	60.0002	197.5023	147.5013	155.0014
4	14:59:19	90.0005	17.5000	32.5001	1780667.7000	77.5004	195.0023	147.5013	125.0009
5	14:59:59	75.0003	10.0000	5.0000	T 1851293.3000	98.7506	202.5025	152.5014	132.5011
x		80.5004	10.5000	16.5000	T 1763201.2000	73.5003	182.0020	136.0011	110.0008
%RSD		29.166	79.682	77.702	T 3.301	21.084	14.879	14.096	36.399

Run	Time	208Pb	209Bi	220Bkg
1	14:57:25	170.0017	1195402.5000	0.0000
2	14:58:03	237.5034	1237817.1000	0.0000
3	14:58:41	320.0061	1273344.3000	0.0000
4	14:59:19	350.0074	1283089.4000	0.0000
5	14:59:59	325.0063	1300410.3000	0.0000
x		280.5050	1258012.7000	0.0000
%RSD		26.697	3.323	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:03:31	265044.7800	18.3334	485.0141	85.0004	100.0006	3725.8327	535.0172	566888.7600
2	15:04:08	267076.4600	14.1667	1120.0753	150.0014	175.0018	4336.1278	620.0231	583872.0800
3	15:04:45	268814.3500	14.1667	1530.1405	205.0025	255.0039	4638.7907	800.0384	588680.8500
4	15:05:22	267656.2900	11.6667	915.0502	210.0027	160.0015	4106.0113	612.5225	594480.3800
5	15:05:59	270959.6800	13.3333	790.0375	85.0004	170.0017	4158.5373	572.5197	591330.1600
x		267910.3100	14.3333	968.0635	147.0015	172.0019	4193.0600	628.0242	585050.4500
%RSD		0.815	17.149	40.236	41.700	32.148	7.965	16.243	1.858

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:03:31	212.5027	19447.6660	2295.3161	ID 3330.6655	130.0010	154712.9600	1297.6010	15.0000
2	15:04:08	197.5023	20136.8000	2180.2852	ID 3575.7670	170.0017	158452.2400	1337.6073	30.0001
3	15:04:45	212.5027	20081.6670	2382.8406	ID 3495.7331	152.5014	159377.1300	1265.0960	20.0000
4	15:05:22	180.0019	19640.6180	2197.7898	ID 3383.1866	177.5019	159677.8000	1217.5889	35.0001
5	15:05:59	180.0019	19593.0060	2185.2865	ID 3458.2174	155.0014	161708.9100	1247.5934	12.5000
x		196.5023	19779.9520	2248.3036	ID 3448.7139	157.0015	158785.8100	1273.0973	22.5000
%RSD		8.275	1.565	3.945	ID 2.776	11.669	1.618	3.633	43.033

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:03:31	35.0001	227.5031	102.5006	495.0147	406.6766	650.0254	40.8334	48.3335
2	15:04:08	32.5001	182.5020	80.0004	542.5177	466.6797	638.3578	55.8335	46.6668
3	15:04:45	47.5001	252.5038	92.5005	597.5214	481.6806	678.3609	36.6667	51.6668
4	15:05:22	22.5000	222.5030	67.5003	475.0135	436.6781	594.1879	40.0001	56.6669
5	15:05:59	55.0002	207.5026	82.5004	547.5180	487.5143	648.3586	56.6669	49.1668
x		38.5001	218.5029	85.0004	531.5171	455.8459	641.8581	46.0001	50.5002
%RSD		33.301	11.824	15.563	9.052	7.417	4.755	20.632	7.705

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:03:31	901674.9300	40.0001	5.0000	43.7501	1.2500	1.2500	1036969.2000	30.0001
2	15:04:08	922909.2200	61.2502	12.5000	50.0001	1.2500	5.0000	1072803.3000	32.5001
3	15:04:45	938379.7800	85.0004	5.0000	82.5004	5.0000	6.2500	1095041.3000	52.5002
4	15:05:22	958086.8900	62.5002	10.0000	45.0001	5.0000	5.0000	1117448.9000	37.5001
5	15:05:59	967779.2800	60.0002	5.0000	36.2501	0.0000	5.0000	1118194.7000	50.0001
x		937766.0200	61.7502	7.5000	51.5002	2.5000	4.5000	1088091.5000	40.5001
%RSD		2.840	25.829	47.140	34.980	93.541	42.127	3.138	25.226

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:03:31	55.0002	10.0000	2.5000	1587322.1000	17.5000	50.0001	52.5002	35.0001
2	15:04:08	67.5003	5.0000	2.5000	1662699.9000	42.5001	101.2506	67.5003	62.5002
3	15:04:45	90.0005	7.5000	7.5000	1713186.1000	42.5001	83.7504	67.5003	95.0005
4	15:05:22	75.0003	10.0000	5.0000	1759803.4000	33.7501	68.7503	77.5004	55.0002
5	15:05:59	70.0003	0.0000	0.0000	1791053.1000	23.7500	71.2503	80.0004	57.5002
x		71.5003	6.5000	3.5000	1702812.9000	32.0001	75.0004	69.0003	61.0002
%RSD		17.760	64.358	81.441	4.743	35.004	25.331	15.710	35.564

Run	Time	208Pb	209Bi	220Bkg
1	15:03:31	180.0019	1149265.2000	0.0000
2	15:04:08	177.5019	1209588.8000	0.0000
3	15:04:45	207.5026	1248109.9000	0.0000
4	15:05:22	160.0015	1282638.5000	0.0000
5	15:05:59	115.0008	1301815.2000	0.0000
x		168.0018	1238283.5000	0.0000
%RSD		20.333	4.920	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:09:26	267739.7400	55971.5060	881035.0100	122498.7900	142126.7500	1160660.6000	43025.7870	572455.6600
2	15:10:06	265398.2700	56374.2070	900594.4200	125777.0800	144863.2700	1162239.7000	44870.4770	580835.5100
3	15:10:44	268124.3100	56626.7440	921433.5300	128782.4700	148878.1100	1180865.9000	45544.1170	587050.3900
4	15:11:21	271580.2300	57020.2470	924719.3500	128812.9300	148440.4000	1192745.3000	45355.5930	585393.4500
5	15:11:57	266607.6300	56539.4880	918032.0600	127985.3200	147422.5700	1175807.4000	45471.2200	586787.8300
x		267890.0400	56506.4380	909162.8700	126771.3200	146346.2200	1174463.8000	44853.4390	582504.5700
%RSD		0.866	0.676	2.010	2.121	1.931	1.140	2.352	1.055

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:09:26	212.5027	297857.1700	261496.9600	ID 72887.3660	341603.4500	1304464.2000	27869.0230	340520.4500
2	15:10:06	192.5022	299268.9200	263965.4900	ID 73169.8250	346947.5800	1337745.9000	28887.4830	347072.6300
3	15:10:44	207.5026	304944.2100	268964.0700	ID 73843.2260	350337.5700	1359047.8000	29700.3320	348495.1900
4	15:11:21	215.0028	305623.4200	268367.8000	ID 74791.6280	352467.1100	1363938.7000	29160.9320	349188.3200
5	15:11:57	162.5016	301875.4500	268099.3600	ID 74567.1290	351382.7300	1359928.1000	29715.3860	348964.2200
x		198.0024	301913.8400	266178.7300	ID 73851.8350	348547.6900	1345024.9000	29066.6310	346848.1600
%RSD		10.949	1.128	1.233	ID 1.131	1.262	1.849	2.607	1.047

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:09:26	76676.1380	188871.3600	90210.6490	105637.8400	90191.2740	24028.7600	9576.3325	46.6668
2	15:10:06	77392.7170	190392.9000	92265.4630	107896.5100	91554.3510	24444.9680	10049.3890	59.1669
3	15:10:44	77841.8710	192446.7800	93218.4810	108960.2100	92396.0650	24381.4490	9979.3049	45.8335
4	15:11:21	78465.1760	194900.3200	93190.6730	109666.8900	92183.7330	24757.5550	10012.6780	50.8335
5	15:11:57	79800.2640	193232.1400	93304.4350	108957.6800	92463.4730	24721.6150	9925.0736	62.5002
x		78035.2330	191968.7000	92437.9400	108223.8300	91757.7790	24466.8690	9908.5557	53.0002
%RSD		1.516	1.235	1.423	1.458	1.031	1.207	1.930	14.134

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:09:26	912770.9900	244372.5500	3218.1213	238441.9100	50601.9180	120271.7000	1062426.5000	22.5000
2	15:10:06	939018.5900	249861.7800	3475.7247	245874.5200	51880.9970	123144.4500	1097562.9000	55.0002
3	15:10:44	951580.9300	255152.2600	3460.7184	247550.5600	52814.3330	125343.1200	1112261.3000	22.5000
4	15:11:21	941364.9900	255442.1900	3633.2919	247983.1400	52518.7230	125207.3500	1118971.9000	27.5000
5	15:11:57	942428.1900	255497.6100	3558.2595	249069.8400	52536.3340	125770.7400	1111951.2000	20.0000
x		937432.7400	252065.2800	3469.2232	245784.0000	52070.4610	123947.4700	1100634.8000	29.5001
%RSD		1.556	1.951	4.512	1.734	1.708	1.849	2.066	49.196

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:09:26	288410.9600	33469.5780	59103.8550	1665161.5000	453317.0500	1107227.4000	365469.6200	306261.2100
2	15:10:06	298512.5100	34960.6810	61715.1830	1727002.8000	474989.2900	1164108.0000	382820.6600	319027.0000
3	15:10:44	302541.4700	34747.2920	62284.3940	1748152.9000	482083.5200	1186080.7000	388303.2900	324931.1800
4	15:11:21	302147.5500	35435.1790	61624.5150	1756195.2000	483786.8500	1187275.6000	390117.6500	326084.9600
5	15:11:57	305128.2600	35236.8410	61224.0800	1762285.1000	485875.7800	1185151.4000	388850.4400	327262.2900
x		299348.1500	34769.9140	61190.4060	1731759.5000	476010.5000	1165968.6000	383112.3300	320713.3200
%RSD		2.189	2.222	2.004	2.284	2.800	2.934	2.676	2.706

Run	Time	208Pb	209Bi	220Bkg
1	15:09:26	770320.7700	1207514.0000	0.0000
2	15:10:06	803500.1400	1257486.4000	0.0000
3	15:10:44	822644.7400	1284253.7000	2.5000
4	15:11:21	814175.4700	1279722.0000	0.0000
5	15:11:57	817132.4500	1283061.9000	0.0000
x		805554.7100	1262407.6000	0.5000
%RSD		2.594	2.579	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:15:27	254411.8000	137831.3300	662875.7900	93162.8640	107762.2900	536829.0600	19841.0920	561557.8500
2	15:16:04	253938.5200	139702.9500	676801.0800	96085.7730	109970.8600	541361.1100	20778.3720	568142.4700
3	15:16:44	257218.5200	139066.6000	687869.6100	96202.1040	113791.6400	551379.5200	20956.3170	570765.4200
4	15:17:21	257720.3300	140324.0900	708038.3400	97795.4900	116437.8200	559780.2800	21510.2260	582863.7900
5	15:18:06	257368.0300	140957.1400	705870.5100	100967.9900	116361.7700	557459.7100	21352.3200	580357.6200
x		256131.4400	139576.4200	688291.0700	96842.8440	112864.8800	549361.9400	20887.6650	572737.4300
%RSD		0.704	0.862	2.792	2.941	3.439	1.819	3.135	1.539

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:15:27	235.0033	696938.6500	658573.9800	ID 71792.9270	839486.5700	1219916.9000	26003.0060	837222.3900
2	15:16:04	192.5022	701512.0300	666655.1600	ID 73109.2980	850230.7900	1251802.2000	27236.9380	853506.6300
3	15:16:44	122.5009	710318.1400	673144.4700	ID 74869.8250	863933.3900	1277730.8000	26835.6400	859307.2600
4	15:17:21	142.5012	714091.0400	677618.6800	ID 74784.0600	877618.6600	1299210.5000	27808.8230	876831.9600
5	15:18:06	147.5013	722615.9900	679730.7200	ID 75947.0070	880816.0800	1307894.7000	28047.1190	874558.1100
x		168.0018	709095.1700	671144.6000	ID 74100.6230	862417.1000	1271311.0000	27186.3050	860285.2700
%RSD		27.000	1.436	1.286	ID 2.215	2.047	2.831	2.996	1.889

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:15:27	190039.9800	461275.1700	223055.8100	126792.2900	111885.2600	28986.1580	11504.6030	52.5002
2	15:16:04	192595.1500	468980.3800	227151.7500	128386.4200	113579.6100	29521.3650	12136.3310	55.0002
3	15:16:44	193559.6100	469836.6500	227585.8500	130765.4900	114807.9400	29558.9980	12151.3530	43.3334
4	15:17:21	197167.7400	479356.5100	231524.6500	132599.1200	117274.4300	29801.5260	12183.0660	56.6669
5	15:18:06	195102.4700	478456.9600	231876.7400	132187.6600	116563.7300	30167.8410	12223.1240	57.5002
x		193692.9900	471581.1400	228238.9600	130146.2000	114822.1900	29607.1770	12039.6950	53.0002
%RSD		1.381	1.586	1.587	1.918	1.909	1.460	2.500	10.814

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:15:27	884142.1800	601507.4900	8031.3683	586605.6500	121712.3900	288925.8400	1023924.3000	17.5000
2	15:16:04	902361.0800	617763.2400	8219.0512	602242.8600	124841.9300	295127.5900	1049943.0000	22.5000
3	15:16:44	918674.9500	627535.7000	8769.6119	614811.4800	127305.0200	303315.0900	1072013.2000	27.5000
4	15:17:21	934414.1000	638650.5700	8496.8296	622024.6400	129514.9400	307683.4400	1085537.5000	30.0001
5	15:18:06	944990.4500	640023.9200	8802.1462	628541.1500	130583.9300	310322.3800	1096955.2000	30.0001
x		916916.5500	625096.1800	8463.8014	610845.1600	126791.6400	301074.8700	1065674.6000	25.5000
%RSD		2.662	2.558	3.989	2.734	2.834	2.958	2.737	21.254

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:15:27	335349.4700	78914.3880	140504.5900	1547954.1000	502524.6300	1227645.6000	423588.8200	336952.2100
2	15:16:04	346647.9900	81340.0440	142487.8400	1611371.8000	524768.5600	1286880.2000	442207.0700	351262.8300
3	15:16:44	352485.3600	84188.1210	147600.6800	1644965.0000	540255.1900	1320446.1000	455339.2000	362232.7900
4	15:17:21	364044.2200	85246.2970	149076.6100	1686339.3000	552772.4100	1351843.7000	465965.6200	370820.9200
5	15:18:06	368018.1800	85471.0820	152192.1700	1708872.8000	561930.5100	1381806.0000	476203.2100	379357.5600
x		353309.0400	83031.9860	146372.3800	1639900.6000	536450.2600	1313724.3000	452660.7800	360125.2600
%RSD		3.742	3.407	3.280	3.882	4.389	4.545	4.545	4.614

Run	Time	208Pb	209Bi	220Bkg
1	15:15:27	863584.8900	1120302.9000	0.0000
2	15:16:04	900888.8400	1161126.9000	0.0000
3	15:16:44	927713.8600	1197114.0000	0.0000
4	15:17:21	954872.4400	1227840.1000	0.0000
5	15:18:06	968996.8200	1249246.6000	0.0000
x		923211.3700	1191126.1000	0.0000
%RSD		4.587	4.338	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:21:35	257542.4600	17.5000	315.0060	20.0000	30.0001	3075.5674	365.0080	581318.7700
2	15:22:11	262565.6200	15.8333	190.0022	35.0001	45.0001	3175.6050	350.0074	601426.9800
3	15:22:48	263042.8200	24.1667	330.0065	70.0003	45.0001	3365.6795	382.5088	605386.3200
4	15:23:25	263530.3700	30.0001	435.0114	55.0002	90.0005	3458.2174	347.5073	610172.1600
5	15:24:02	267071.2900	40.8334	555.0185	105.0007	170.0017	3543.2531	412.5102	611232.0100
x		262750.5100	25.6667	365.0089	57.0002	76.0005	3323.6645	371.5083	601907.2500
%RSD		1.298	39.658	37.603	57.722	75.214	5.857	7.226	2.020

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:21:35	170.0017	412.5102	1522.6391	ID 3298.1525	202.5025	158638.2300	1272.5972	37.5001
2	15:22:11	202.5025	382.5088	1577.6493	ID 3270.6417	147.5013	162789.6500	1295.1006	60.0002
3	15:22:48	165.0016	435.0114	1615.1565	ID 3425.7040	237.5034	164439.0600	1340.1077	112.5008
4	15:23:25	145.0013	510.0156	1587.6512	ID 3550.7563	212.5027	163896.0200	1207.5875	157.5015
5	15:24:02	165.0016	472.5134	1695.1724	ID 3353.1745	360.0078	167358.8300	1082.5703	265.0042
x		169.5017	442.5119	1599.6537	ID 3379.6858	232.0035	163424.3600	1239.5927	126.5014
%RSD		12.270	11.307	3.944	ID 3.329	33.944	1.936	8.063	71.456

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	77Se	82Se	83Kr
1	15:21:35	15.0000	385.0089	255.0039	200.0024	29.1667	659.1927	62.5002	43.3334
2	15:22:11	42.5001	505.0153	250.0038	167.5017	31.6667	723.3647	67.5003	53.3335
3	15:22:48	40.0001	522.5164	192.5022	202.5025	34.1667	729.1986	63.3336	50.0001
4	15:23:25	57.5002	565.0192	222.5030	225.0030	24.1667	689.1952	60.0002	45.8335
5	15:24:02	62.5002	565.0192	257.5040	240.0035	45.0001	738.3660	62.5002	52.5002
x		43.5001	508.5158	235.5034	207.0026	32.8334	707.8635	63.1669	49.0001
%RSD		42.738	14.533	11.807	13.324	23.578	4.655	4.315	8.788

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:21:35	930578.3900	103.7507	7.5000	72.5003	1.2500	10.0000	1076769.3000	27.5000
2	15:22:11	958246.2500	107.5007	5.0000	180.0019	5.0000	7.5000	1115115.1000	12.5000
3	15:22:48	974504.4700	125.0009	12.5000	102.5006	7.5000	27.5000	1144862.8000	22.5000
4	15:23:25	988825.8700	135.0011	10.0000	93.7505	21.2500	38.7501	1155796.5000	20.0000
5	15:24:02	991513.9000	288.7550	20.0000	161.2516	37.5001	76.2503	1160211.6000	10.0000
x		968733.7800	152.0017	11.0000	122.0010	14.5000	32.0001	1130551.1000	18.5000
%RSD		2.592	50.989	52.322	37.859	102.836	87.110	3.081	38.932

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:21:35	712.5305	0.0000	7.5000	1652225.8000	135.0011	301.2555	95.0005	75.0003
2	15:22:11	750.0338	5.0000	25.0000	1723663.1000	125.0009	295.0052	112.5008	80.0004
3	15:22:48	885.0470	17.5000	12.5000	1774155.5000	155.0014	365.0080	117.5008	105.0007
4	15:23:25	682.5280	17.5000	17.5000	1796951.3000	192.5022	532.5170	112.5008	137.5011
5	15:24:02	740.0329	32.5001	57.5002	1794613.7000	323.7563	786.2871	220.0029	155.0014
x		754.0344	14.5000	24.0001	1748321.9000	186.2524	456.0146	131.5012	110.5008
%RSD		10.318	87.406	82.549	3.505	43.537	45.617	38.180	31.771

Run	Time	208Pb	209Bi	220Bkg
1	15:21:35	180.0019	1202102.7000	0.0000
2	15:22:11	195.0023	1253922.0000	0.0000
3	15:22:48	255.0039	1291646.3000	0.0000
4	15:23:25	327.5064	1310968.7000	0.0000
5	15:24:02	425.0108	1308829.6000	0.0000
x		276.5051	1273493.8000	0.0000
%RSD		36.648	3.612	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:27:30	266479.4600	21.6667	T 12455879.0000	T 1734458.8000	T 2016453.9000	21635.5490	TM 2014882.6000	566900.7900
2	15:28:07	267079.9000	20.0000	T 12977917.0000	T 1794008.0000	T 2076962.4000	22781.0960	TM 2110250.4000	582920.0300
3	15:28:43	271259.1900	15.8333	T 13315607.0000	T 1856118.8000	T 2156092.3000	22635.7010	TM 2147551.9000	592226.8500
4	15:29:20	273446.4600	15.0000	T 13485017.0000	T 1861329.1000	T 2173903.1000	23079.4150	TM 2178103.3000	598724.9300
5	15:29:57	275238.1900	28.3334	T 13549820.0000	T 1887293.7000	T 2191976.8000	23084.4290	TM 2181578.7000	600695.7100
x		270700.6400	20.1667	T 13156848.0000	T 1826641.7000	T 2123077.7000	22643.2380	TM 2126473.4000	588293.6600
%RSD		1.423	26.524	T 3.422	T 3.387	T 3.486	2.631	TM 3.229	2.350

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:27:30	402.5097	17874.1490	3335.6675	ID 3930.9269	60000.2270	186511.6000	32545.9300	1620.1575
2	15:28:07	400.0096	18001.9230	3360.6775	ID 3940.9316	62380.1060	192229.3500	30646.2480	1402.6180
3	15:28:43	367.5081	19279.7770	3443.2112	ID 4008.4638	63810.8780	195148.5300	30101.7690	1522.6391
4	15:29:20	372.5083	19517.8300	3335.6675	ID 4163.5398	64292.0550	196036.5100	30432.9690	1472.6301
5	15:29:57	377.5086	20673.1110	3543.2531	ID 4121.0187	65113.3950	198084.0900	29213.6170	1445.1253
x		384.0089	19069.3580	3403.6954	ID 4032.9762	63119.3320	193602.0100	30588.1070	1492.6340
%RSD		4.209	6.085	2.634	ID 2.609	3.179	2.318	3.999	5.598

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:27:30	2662.9254	2700.4375	1337.6073	45815.5990	977.5573	671.6937	58.3335	48.3335
2	15:28:07	2537.8864	2627.9143	1520.1386	47117.8300	961.7222	672.5271	73.3337	48.3335
3	15:28:43	2655.4230	2747.9530	1465.1288	47972.6860	991.7257	674.1939	78.3337	46.6668
4	15:29:20	2675.4294	2770.4605	1437.6240	48457.9820	1060.0674	707.5300	67.5003	44.1668
5	15:29:57	2690.4342	2695.4359	1295.1006	49157.0590	1178.4166	706.6966	68.3336	43.3334
x		2644.4197	2708.4402	1411.1199	47704.2310	1033.8978	686.5283	69.1670	46.1668
%RSD		2.307	2.033	6.569	2.705	8.615	2.741	10.776	5.041

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:27:30	886471.2000	496.2648	45.0001	432.5112	661.2762	1410.1193	1005677.4000	22.5000
2	15:28:07	914228.5300	500.0150	45.0001	457.5126	665.0265	1512.6373	1048578.7000	35.0001
3	15:28:43	932540.6400	468.7632	47.5001	478.7638	646.2751	1548.8939	1070059.3000	40.0001
4	15:29:20	940977.1400	536.2672	57.5002	477.5137	718.7810	1552.6446	1078897.5000	42.5001
5	15:29:57	938388.1500	486.2642	60.0002	553.7684	721.2812	1563.8967	1079776.1000	45.0001
x		922521.1300	497.5149	51.0002	480.0139	682.5280	1517.6384	1056597.8000	37.0001
%RSD		2.461	4.987	14.122	9.438	5.122	4.158	2.945	24.079

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:27:30	2127.7716	78621.6400	137970.2700	1560820.7000	93.7505	203.7525	765.0351	610.0223
2	15:28:07	2205.2918	81234.0170	143876.3900	1630382.3000	113.7508	255.0039	800.0384	607.5221
3	15:28:43	2210.2931	84127.5140	148379.3300	1669263.7000	140.0012	270.0044	787.5372	732.5322
4	15:29:20	2177.7845	84592.1820	148934.0900	1701381.8000	128.7510	318.7561	805.0389	647.5252
5	15:29:57	2282.8126	85011.4160	148353.8800	1701636.9000	198.7524	422.5107	832.5416	707.5300
x		2200.7907	82717.3540	145502.7900	1652697.1000	135.0012	294.0055	798.0382	661.0264
%RSD		2.560	3.297	3.216	3.577	29.354	28.135	3.097	8.598

Run	Time	208Pb	209Bi	220Bkg
1	15:27:30	1560.1460	1057173.4000	0.0000
2	15:28:07	1575.1489	1109089.9000	0.0000
3	15:28:43	1635.1604	1149009.6000	0.0000
4	15:29:20	1600.1536	1160926.6000	0.0000
5	15:29:57	1702.6739	1159942.7000	0.0000
x		1614.6566	1127228.5000	0.0000
%RSD		3.518	3.947	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:33:25	252507.6800	30.8334	T 1809191.4000	256590.4200	298745.6400	1447700.2000	320727.9600	557433.0100
2	15:34:02	256979.6500	35.0001	T 1896024.0000	270231.6000	310270.5000	1491260.6000	331247.7100	571749.5700
3	15:34:39	259547.4100	37.5001	T 1913731.9000	273965.6000	322065.5900	1523109.0000	338097.2200	580902.4400
4	15:35:15	259795.8100	46.6668	T 1946421.6000	275484.4600	322855.2800	1521795.9000	345413.2700	587223.2000
5	15:35:52	258367.4200	46.6668	T 1986314.1000	282389.9300	328104.4500	1531555.1000	348336.2400	596462.2500
x		257439.5900	39.3334	T 1910336.6000	271732.4000	316408.2900	1503084.2000	336764.4800	578754.0900
%RSD		1.155	18.065	T 3.465	3.511	3.740	2.297	3.314	2.583

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:33:25	2082.7602	29163.4410	5674.4313	ID 30774.2180	53435.7750	621370.9700	17084.9960	4553.7439
2	15:34:02	1947.7276	29958.7550	6119.7463	ID 31557.1380	54344.1210	637104.9700	16811.9410	4183.5499
3	15:34:39	2102.7653	29509.6570	5887.0787	ID 32347.6610	55788.6190	649577.3300	17205.2430	4456.1911
4	15:35:15	2157.7793	29946.2100	5902.0893	ID 32390.3260	56687.1520	657072.0900	17232.8000	4671.3089
5	15:35:52	2125.2710	30199.6220	5714.4586	ID 33010.2510	57107.5080	664892.3300	17515.8890	4506.2180
x		2083.2607	29755.5370	5859.5608	ID 32015.9190	55472.6350	646003.5400	17170.1740	4474.2024
%RSD		3.875	1.392	3.024	ID 2.701	2.803	2.657	1.486	4.045

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:33:25	1167.5818	10531.6510	4618.7796	4851.4118	4146.8649	667.5267	51.6668	52.5002
2	15:34:02	1252.5941	10932.1660	4563.7493	5186.6136	4335.2941	686.6950	59.1669	59.1669
3	15:34:39	1315.1038	10609.2490	4946.4676	5104.0626	4454.5236	702.5296	55.0002	50.0001
4	15:35:15	1290.0999	10959.7020	4728.8413	5226.6386	4415.3361	752.5340	57.5002	53.3335
5	15:35:52	1302.6018	11542.9890	4821.3943	5341.7115	4452.8560	709.1968	75.0003	63.3336
x		1265.5963	10915.1510	4735.8465	5142.0876	4360.9749	703.6964	59.6669	55.6669
%RSD		4.707	3.656	3.255	3.572	2.960	4.502	15.126	9.782

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:33:25	876131.1800	662.5263	35.0001	657.5259	30.0001	66.2503	1009529.1000	75.0003
2	15:34:02	907643.7100	710.0303	45.0001	713.7806	36.2501	80.0004	1036546.1000	65.0003
3	15:34:39	925279.1800	856.2940	27.5000	817.5401	37.5001	100.0006	1063640.2000	92.5005
4	15:35:15	942991.9400	973.8069	25.0000	938.8029	45.0001	103.7507	1080680.3000	87.5005
5	15:35:52	946874.9300	898.7985	30.0001	868.7953	35.0001	105.0007	1103102.9000	85.0004
x		919784.1900	820.2912	32.5001	799.2890	36.7501	91.0005	1058699.7000	81.0004
%RSD		3.149	15.903	24.325	14.270	14.748	18.819	3.467	13.559

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:33:25	4158.5373	9455.3612	17004.8320	1590240.5000	88.7505	172.5018	7706.0614	6657.6584
2	15:34:02	4191.0536	9750.7012	17508.3730	1668080.6000	113.7508	278.7547	7883.7274	7108.0302
3	15:34:39	4551.2425	10103.6210	18029.4830	1729697.9000	193.7523	393.7593	8697.0359	7235.6399
4	15:35:15	4506.2180	10286.3450	18435.3690	1758501.8000	181.2520	436.2614	8797.1409	7620.9832
5	15:35:52	4551.2425	10486.5940	18320.1150	T 1841881.3000	185.0021	392.5092	8579.4141	7721.0752
x		4391.6588	10016.5240	17859.6350	T 1717680.4000	152.5015	334.7573	8332.6760	7268.6774
%RSD		4.535	4.137	3.344	T 5.518	31.363	32.237	6.011	5.873

Run	Time	208Pb	209Bi	220Bkg
1	15:33:25	16421.1630	1086857.9000	0.0000
2	15:34:02	17814.0200	1143844.9000	0.0000
3	15:34:39	18099.6340	1179143.1000	0.0000
4	15:35:15	18520.5580	1206442.9000	0.0000
5	15:35:52	19104.3740	1227508.7000	0.0000
x		17991.9500	1168759.5000	0.0000
%RSD		5.577	4.746	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:39:21	259209.6400	19.1667	T 6302837.7000	918733.4000	1066925.6000	6097.2298	TM 1745880.3000	574999.6600
2	15:39:58	264220.0300	25.8334	T 6377591.8000	925048.0000	1082630.8000	6397.4547	TM 1762931.3000	576550.2400
3	15:40:35	268981.2800	29.1667	T 6524928.1000	953296.3800	1103438.2000	7045.4771	TM 1798212.8000	585412.2000
4	15:41:11	268165.6100	15.0000	T 6600546.6000	958696.3700	1112355.2000	7308.2032	TM 1812516.1000	592004.3400
5	15:41:48	264278.5100	20.8334	T 6583392.8000	956923.9600	1114568.7000	6920.3723	TM 1819441.9000	585306.4000
x		264971.0100	22.0000	T 6477859.4000	942539.6200	1095983.7000	6753.7474	TM 1787796.4000	582854.5700
%RSD		1.468	25.353	T 2.029	2.024	1.876	7.322	TM 1.790	1.206

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:39:21	445.0119	16949.7200	2562.8940	ID 3618.2853	7878.7227	180013.5200	25599.2590	1012.5615
2	15:39:58	447.5120	18237.4340	2767.9596	ID 3858.3930	8008.8466	179431.1600	25208.0690	907.5494
3	15:40:35	360.0078	18660.8700	2507.8773	ID 3825.8780	8231.5635	180115.6900	24874.5690	900.0486
4	15:41:11	385.0089	19099.3620	2557.8925	ID 3943.4328	8329.1604	182657.6300	24315.4230	1030.0637
5	15:41:48	390.0091	19169.5230	2432.8551	ID 3933.4281	8234.0660	179387.7400	23395.2940	992.5591
x		405.5099	18423.3820	2565.8957	ID 3835.8835	8136.4719	180321.1500	24678.5230	968.5565
%RSD		9.595	4.912	4.851	ID 3.425	2.286	0.747	3.477	6.261

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:39:21	3778.3564	10408.9970	5214.1307	TM 2631336.1000	1525.9730	1276.7645	313.3392	85.0004
2	15:39:58	3590.7735	10451.5500	5259.1590	T 2654896.2000	1657.6649	1265.0960	370.0082	80.0004
3	15:40:35	3743.3406	10564.1920	5466.7926	T 2680538.1000	1619.3240	1228.4239	333.3400	67.5003
4	15:41:11	3658.3028	10932.1660	5416.7599	T 2697276.4000	1676.0019	1197.5860	309.1724	86.6671
5	15:41:48	3658.3028	10353.9280	5404.2518	TM 2713030.0000	1795.1933	1176.7497	367.5081	72.5003
x		3685.8152	10542.1670	5352.2188	TM 2675415.4000	1654.8314	1228.9240	338.6736	78.3337
%RSD		2.031	2.194	2.041	TM 1.223	5.892	3.477	8.550	10.451

Run	Time	89Y	107Ag	108Mo O	109Ag	113In	114Cd	115In	118Sn
1	15:39:21	900663.8600	113.7508	1002.5603	91.2505	14150.7540	33533.5850	1036154.1000	40.0001
2	15:39:58	921505.9200	252.5038	1042.5652	222.5030	14347.3400	34631.8130	1056264.5000	50.0001
3	15:40:35	929929.0500	255.0039	1060.0674	268.7543	14756.8040	34852.7310	1069413.8000	37.5001
4	15:41:11	939727.1900	323.7563	1067.5684	300.0054	14758.0560	34959.4260	1084405.9000	52.5002
5	15:41:48	941094.3300	217.5028	945.0536	221.2529	15069.8640	34688.2970	1085957.3000	65.0003
x		926584.0700	232.5035	1023.5630	220.7532	14616.5640	34533.1700	1066439.1000	49.0001
%RSD		1.783	33.009	4.942	36.069	2.501	1.661	1.952	22.414

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:39:21	29083.1610	10323.8910	18415.3250	1631855.8000	946.3037	2422.8522	34850.2200	30475.6240
2	15:39:58	30031.5160	10907.1330	18505.5240	1671863.3000	1017.5621	2569.1460	36323.9940	30651.2670
3	15:40:35	29544.7810	10796.9900	18811.2080	1699557.1000	1075.0693	2586.6514	36251.1780	31933.5680
4	15:41:11	30794.2920	10984.7350	19217.1320	1716792.7000	1076.3195	2559.1429	37087.3450	31928.5490
5	15:41:48	30706.4690	11255.0960	18878.8600	1741154.4000	1101.3228	2652.9222	37755.3350	32116.7700
x		30032.0440	10853.5690	18765.6100	1692244.6000	1043.3155	2558.1429	36453.6140	31421.1560
%RSD		2.455	3.142	1.704	2.491	5.974	3.283	2.981	2.511

Run	Time	208Pb	209Bi	220Bkg
1	15:39:21	74622.6230	1128887.7000	0.0000
2	15:39:58	78596.4040	1165304.1000	0.0000
3	15:40:35	78649.4010	1181351.9000	0.0000
4	15:41:11	80002.1860	1199231.0000	2.5000
5	15:41:48	81690.9520	1217813.7000	0.0000
x		78712.3130	1178517.7000	0.5000
%RSD		3.318	2.883	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:45:18	258002.1900	11.6667	1269892.2000	175958.2700	203059.2000	2255.3051	323665.8300	561901.1200
2	15:45:54	260492.9100	12.5000	1325483.5000	183048.5700	210987.5600	2525.3826	333166.9900	575536.1100
3	15:46:31	262598.2900	20.0000	T 1334847.4000	188165.6600	217917.5100	2660.4246	340114.3600	583379.3000
4	15:47:07	264477.1700	12.5000	1383455.2000	191295.7300	220124.3900	3023.0482	346241.6100	585745.7100
5	15:47:45	266372.8000	16.6667	1390383.9000	191919.8300	226527.6000	2865.4926	351281.0700	595590.6000
x		262388.6700	14.6667	T 1340812.4000	186077.6100	215723.2500	2665.9306	338893.9700	580430.5700
%RSD		1.251	24.306	T 3.649	3.578	4.170	11.187	3.211	2.169

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:45:18	270.0044	5666.9262	1770.1880	ID 3328.1645	1715.1765	161703.8100	7303.1988	212.5027
2	15:45:54	247.5037	5461.7893	1812.6971	ID 3545.7542	1757.6853	164344.7300	6602.6146	200.0024
3	15:46:31	210.0027	5286.6764	1865.2087	ID 3520.7436	1672.6679	166180.6000	6470.0107	247.5037
4	15:47:07	180.0019	5584.3705	1890.2144	ID 3450.7143	1832.7015	166864.0600	5566.8588	237.5034
5	15:47:45	222.5030	5581.8688	1825.1999	ID 3418.2009	1842.7037	166922.7100	6307.3861	242.5035
x		226.0031	5516.3262	1832.7016	ID 3452.7155	1764.1870	165203.1800	6450.0138	228.0031
%RSD		15.300	2.678	2.549	ID 2.508	4.173	1.342	9.657	9.055

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:45:18	880.0465	2430.3543	1085.0706	565200.9500	334.1734	777.5363	118.3342	56.6669
2	15:45:54	880.0465	2405.3471	1182.5839	583250.7600	327.5064	779.2031	95.0005	51.6668
3	15:46:31	950.0542	2602.9064	1335.1069	591693.3800	315.0060	825.0408	98.3339	55.8335
4	15:47:07	847.5431	2460.3631	1295.1006	598805.4200	317.5061	817.5401	110.8341	50.8335
5	15:47:45	837.5421	2560.3933	1190.0850	596511.8700	340.0069	833.3750	117.5008	58.3335
x		879.0465	2491.8729	1217.5894	587092.4800	326.8398	806.5391	108.0007	54.6668
%RSD		5.010	3.434	8.147	2.318	3.262	3.264	10.010	5.963

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:45:18	886266.0000	62.5002	230.0032	45.0001	2777.9629	6582.5988	1014808.8000	17.5000
2	15:45:54	910042.9300	133.7511	232.5032	98.7506	2920.5117	7019.2049	1056369.1000	30.0001
3	15:46:31	932206.1300	200.0024	202.5025	166.2517	3041.8051	7206.8650	1084130.8000	17.5000
4	15:47:07	940234.9600	211.2527	165.0016	153.7514	3029.3005	7216.8736	1098784.3000	27.5000
5	15:47:45	950466.3500	181.2520	210.0027	151.2514	2955.5240	7190.6009	1101818.4000	40.0001
x		923843.2700	157.7517	208.0026	123.0010	2945.0208	7043.2287	1071182.3000	26.5000
%RSD		2.786	38.622	13.095	41.228	3.605	3.832	3.387	35.675

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:45:18	5714.4586	2005.2412	3640.7951	1545105.9000	202.5025	463.7629	6622.6305	5904.5911
2	15:45:54	5979.6446	2235.2998	3860.8942	1626294.6000	211.2527	578.7701	7075.5025	5979.6446
3	15:46:31	6167.2813	2240.3011	3740.8394	1677670.3000	225.0030	608.7722	7395.7804	6424.9759
4	15:47:07	6254.8465	2092.7627	3708.3249	1709556.6000	305.0056	596.2713	7498.3720	6582.5988
5	15:47:45	6422.4739	2477.8683	3838.3838	1738745.5000	211.2527	606.2721	7615.9786	6522.5516
x		6107.7410	2210.2946	3757.8475	1659474.6000	231.0033	570.7697	7241.6528	6282.8724
%RSD		4.449	8.124	2.437	4.600	18.244	10.682	5.526	5.049

Run	Time	208Pb	209Bi	220Bkg
1	15:45:18	14590.2610	1108915.0000	0.0000
2	15:45:54	15286.5080	1161780.5000	0.0000
3	15:46:31	15752.3740	1204341.5000	0.0000
4	15:47:07	16516.3510	1235874.2000	0.0000
5	15:47:45	16558.9360	1249957.3000	0.0000
x		15740.8860	1192173.7000	0.0000
%RSD		5.316	4.828	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:51:19	256298.3000	22.5000	TM 20635836.0000	TM 2855711.0000	TM 3352460.9000	264721.4100	TM 2668179.3000	573474.7700
2	15:51:58	261351.6800	25.0000	TM 21374534.0000	TM 2972030.5000	TM 3458317.9000	268372.9600	TM 2738943.0000	584232.3100
3	15:52:35	263220.8100	11.6667	TM 22029037.0000	TM 3031623.1000	TM 3491354.5000	270376.1800	TM 2814148.2000	598490.1900
4	15:53:11	265467.0700	20.0000	TM 22307908.0000	TM 3081164.2000	TM 3566891.5000	273389.6400	TM 2861938.8000	605042.6600
5	15:53:48	266309.1400	27.5000	TM 22329517.0000	TM 3078841.3000	TM 3610224.6000	275448.2900	TM 2896994.4000	601274.0100
x		262529.4000	21.3334	TM 21735367.0000	TM 3003874.0000	TM 3495849.9000	270461.7000	TM 2796040.7000	592502.7900
%RSD		1.519	28.518	TM 3.339	TM 3.129	TM 2.865	1.555	TM 3.320	2.233

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:51:19	1320.1046	17738.8600	3210.6184	ID 55441.3130	995696.2800	1086632.4000	59214.6380	5897.0858
2	15:51:58	1202.5868	18415.3250	3220.6222	ID 57593.3340	1025237.0000	1126097.8000	57814.8600	5741.9775
3	15:52:35	1342.6081	18891.3890	3335.6675	ID 58915.0250	1044275.2000	1152515.3000	57371.8140	5766.9948
4	15:53:11	1272.5972	19808.5150	3325.6635	ID 59484.0460	1054130.5000	1162276.9000	55315.4810	5874.5699
5	15:53:48	1290.0999	19580.4770	3248.1329	ID 59053.5000	1060098.7000	1166580.6000	55277.7320	5784.5069
x		1285.5993	18886.9130	3268.1409	ID 58097.4440	1035887.5000	1138820.6000	56998.9050	5813.0270
%RSD		4.175	4.486	1.800	ID 2.830	2.516	2.910	2.976	1.180

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:51:19	4448.6871	4005.9626	2462.8639	76158.9280	3163.1002	645.8584	74.1670	42.5001
2	15:51:58	4536.2343	4296.1071	2505.3766	78656.9710	3267.3071	686.6950	61.6669	54.1668
3	15:52:35	4683.8159	4361.1409	2190.2878	78785.6790	3225.6242	644.1916	64.1669	47.5001
4	15:53:11	4386.1540	4358.6396	2412.8493	79658.9220	3303.1545	643.3582	81.6671	55.8335
5	15:53:48	4786.3742	4481.2045	2280.3119	80413.6180	3269.8080	720.8645	61.6669	55.8335
x		4568.2531	4300.6109	2370.3379	78734.8240	3245.7988	668.1935	68.6670	51.1668
%RSD		3.620	4.135	5.546	2.040	1.657	5.189	12.975	11.608

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	15:51:19	900624.9800	190.0022	12.5000	157.5015	27.5000	66.2503	1025606.0000	32.5001
2	15:51:58	930174.2900	182.5020	7.5000	200.0024	33.7501	71.2503	1068819.3000	40.0001
3	15:52:35	949323.9700	222.5030	7.5000	176.2519	32.5001	80.0004	1096722.3000	45.0001
4	15:53:11	957485.8400	212.5027	5.0000	218.7529	23.7500	67.5003	1102616.9000	47.5001
5	15:53:48	966007.8400	210.0027	20.0000	198.7524	38.7501	60.0002	1114250.0000	27.5000
x		940723.3800	203.5025	10.5000	190.2522	31.2501	69.0003	1081602.9000	38.5001
%RSD		2.769	8.177	56.845	12.461	18.547	10.672	3.280	21.828

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:51:19	667.5267	10378.9590	18237.4340	1638276.9000	45.0001	98.7506	2752.9547	2247.8031
2	15:51:58	802.5386	10764.4480	18650.8480	1721173.6000	48.7501	108.7507	2842.9849	2482.8698
3	15:52:35	780.0365	10744.4220	19207.1090	1769088.6000	40.0001	122.5009	3018.0464	2485.3706
4	15:53:11	787.5372	11054.8280	19635.6060	T 1850159.7000	33.7501	127.5010	3038.0537	2525.3826
5	15:53:48	775.0360	11387.7760	19502.7950	1813906.1000	33.7501	115.0008	2735.4489	2357.8335
x		762.5350	10866.0870	19046.7590	T 1758521.0000	40.2501	114.5008	2877.4977	2419.8519
%RSD		7.097	3.475	3.097	T 4.709	16.637	9.904	4.988	4.750

Run	Time	208Pb	209Bi	220Bkg
1	15:51:19	5709.4552	1112992.4000	0.0000
2	15:51:58	5984.6482	1180372.9000	0.0000
3	15:52:35	6149.7683	1207010.8000	2.5000
4	15:53:11	6162.2776	1229900.9000	2.5000
5	15:53:48	6369.9336	1244087.2000	0.0000
x		6075.2166	1194872.8000	1.0000
%RSD		4.049	4.331	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	15:57:18	264439.3300	10.0000	1355.1102	225.0030	190.0022	870.0454	657.5259	582150.1600
2	15:57:55	264241.5300	14.1667	2080.2596	295.0052	375.0084	947.5539	757.5344	589549.1200
3	15:58:31	263077.2200	5.0000	3180.6069	535.0172	500.0150	862.5446	915.0502	595204.4200
4	15:59:08	265799.0700	14.1667	3135.5898	495.0147	495.0147	995.0594	832.5416	603657.4100
5	15:59:45	266318.6100	6.6667	3915.9198	515.0159	645.0250	990.0588	1002.5603	608097.1700
x		264775.1500	10.0000	2733.4973	413.0112	441.0131	933.0524	833.0425	595731.6500
%RSD		0.489	42.081	36.976	34.516	38.511	6.830	16.102	1.758

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	15:57:18	177.5019	680.0278	1637.6609	ID 3450.7143	172.5018	165122.3800	1437.6240	20.0000
2	15:57:55	220.0029	730.0320	1600.1536	ID 3583.2702	215.0028	167154.8000	1370.1126	25.0000
3	15:58:31	237.5034	810.0394	1580.1498	ID 3535.7499	230.0032	166917.6100	1285.0991	25.0000
4	15:59:08	177.5019	560.0188	1577.6493	ID 3618.2853	190.0022	168351.0200	1395.1168	32.5001
5	15:59:45	135.0011	605.0220	1657.6649	ID 3705.8238	295.0052	167861.2900	1382.6147	37.5001
x		189.5022	677.0280	1610.6557	ID 3578.7687	220.5030	167081.4200	1374.1134	28.0000
%RSD		21.260	14.657	2.210	ID 2.650	21.399	0.739	4.066	24.776

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	15:57:18	12.5000	165.0016	50.0001	620.0231	18.3334	684.1948	60.8336	55.0002
2	15:57:55	20.0000	125.0009	65.0003	657.5259	17.5000	755.0342	55.0002	51.6668
3	15:58:31	22.5000	122.5009	35.0001	712.5305	20.8334	735.8658	56.6669	49.1668
4	15:59:08	15.0000	152.5014	47.5001	680.0278	15.0000	778.3697	50.8335	65.0003
5	15:59:45	25.0000	132.5011	57.5002	730.0320	20.8334	776.7029	47.5001	40.8334
x		19.0000	139.5012	51.0002	680.0278	18.5000	746.0335	54.1668	52.3335
%RSD		27.285	13.254	22.086	6.437	13.286	5.189	9.546	16.829

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	15:57:18	924148.4200	26.2500	5.0000	11.2500	0.0000	10.0000	1065974.7000	15.0000
2	15:57:55	946389.1200	27.5000	5.0000	33.7501	2.5000	8.7500	1090499.5000	15.0000
3	15:58:31	957094.4800	60.0002	15.0000	20.0000	3.7500	11.2500	1105740.5000	12.5000
4	15:59:08	962577.9100	60.0002	5.0000	27.5000	1.2500	13.7500	1116301.8000	10.0000
5	15:59:45	972118.4300	58.7502	5.0000	50.0001	5.0000	2.5000	1126134.9000	12.5000
x		952465.6700	46.5001	7.0000	28.5001	2.5000	9.2500	1100930.3000	13.0000
%RSD		1.928	38.555	63.888	51.467	79.057	45.426	2.142	16.090

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	15:57:18	55.0002	2.5000	7.5000	1612069.4000	33.7501	88.7505	75.0003	45.0001
2	15:57:55	85.0004	2.5000	15.0000	1675384.0000	31.2501	88.7505	80.0004	85.0004
3	15:58:31	50.0001	2.5000	5.0000	1707636.0000	31.2501	113.7508	72.5003	47.5001
4	15:59:08	50.0001	0.0000	5.0000	1731111.3000	41.2501	123.7509	82.5004	95.0005
5	15:59:45	72.5003	2.5000	10.0000	1736785.3000	53.7502	110.0007	80.0004	65.0003
x		62.5002	2.0000	8.5000	1692597.2000	38.2501	105.0007	78.0004	67.5003
%RSD		24.980	55.902	49.215	3.019	25.059	14.917	5.267	32.919

Run	Time	208Pb	209Bi	220Bkg
1	15:57:18	190.0022	1162986.4000	0.0000
2	15:57:55	122.5009	1212577.5000	0.0000
3	15:58:31	165.0016	1239096.7000	0.0000
4	15:59:08	165.0016	1255777.7000	2.5000
5	15:59:45	152.5014	1252638.7000	0.0000
x		159.0016	1224615.4000	0.5000
%RSD		15.430	3.139	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:03:15	260100.0800	593.3545	255.0039	35.0001	40.0001	1435.1236	387.5090	577943.1800
2	16:03:52	263740.1800	566.6859	560.0188	90.0005	95.0005	1345.1086	415.0103	595807.8300
3	16:04:28	265843.8000	590.8543	990.0588	145.0013	180.0019	1405.1185	512.5158	600949.3000
4	16:05:05	267376.6900	561.6856	970.0565	125.0009	170.0017	1442.6249	535.0172	607507.6600
5	16:05:42	272074.2900	598.3548	1635.1604	180.0019	220.0029	1530.1405	572.5197	619332.2800
x		265827.0100	582.1870	882.0597	115.0009	141.0014	1431.6232	484.5144	600308.0500
%RSD		1.667	2.877	59.004	48.122	51.290	4.689	16.421	2.546

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:03:15	197.5023	14552.6960	6700.1925	ID 3495.7331	3538.2510	162126.9100	1287.5995	3255.6358
2	16:03:52	182.5020	14445.0090	6767.7470	ID 3465.7205	3683.3138	163957.2100	1420.1210	3615.7843
3	16:04:28	165.0016	14865.7480	7067.9961	ID 3488.2299	3443.2112	167088.4900	1400.1176	3288.1486
4	16:05:05	152.5014	14760.5610	7135.5537	ID 3453.2153	3910.9175	166711.0400	1162.5811	3543.2531
5	16:05:42	170.0017	15193.8390	7027.9623	ID 3680.8127	3625.7886	168927.5100	1285.0991	3443.2112
x		173.5018	14763.5700	6939.8903	ID 3516.7423	3640.2964	165762.2300	1311.1036	3429.2066
%RSD		9.910	1.979	2.786	ID 2.653	4.847	1.629	7.917	4.565

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:03:15	852.5436	3843.3861	1900.2166	1330.1061	476.6803	1230.9242	284.1715	50.0001
2	16:03:52	725.0315	3863.3953	1930.2235	1342.6081	498.3482	1295.1006	302.5055	56.6669
3	16:04:28	810.0394	3895.9105	1910.2189	1372.6130	460.8461	1312.6034	286.6716	50.8335
4	16:05:05	812.5396	4261.0891	1895.2155	1412.6197	476.6803	1370.9461	303.3389	42.5001
5	16:05:42	870.0454	4070.9941	1887.7138	1425.1218	502.5152	1412.6197	335.0067	53.3335
x		814.0399	3986.9550	1904.7177	1376.6138	483.0140	1324.4388	302.3388	50.6668
%RSD		6.884	4.458	0.863	3.036	3.567	5.297	6.705	10.363

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:03:15	919059.0400	2416.6003	47.5001	2361.5846	503.7652	1111.3241	1059680.1000	12.5000
2	16:03:52	950731.7100	2560.3933	32.5001	2409.0982	503.7652	1228.8406	1089665.3000	22.5000
3	16:04:28	972252.8300	2546.6391	22.5000	2496.6239	495.0147	1263.8458	1121269.7000	20.0000
4	16:05:05	983199.9400	2665.4262	42.5001	2534.1353	573.7698	1206.3373	1141388.6000	7.5000
5	16:05:42	992973.3000	2715.4423	37.5001	2672.9286	582.5204	1286.3493	1162857.6000	20.0000
x		963643.3700	2580.9002	36.5001	2494.8741	531.7671	1219.3394	1114972.3000	16.5000
%RSD		3.057	4.495	26.350	4.842	8.011	5.562	3.678	38.030

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:03:15	2582.9002	3210.6184	5601.8822	1599520.7000	2057.7540	5041.5246	1752.6843	1407.6189
2	16:03:52	2765.4588	3215.6203	5967.1356	1679875.4000	2179.0349	5212.8799	1882.7127	1460.1279
3	16:04:28	2933.0161	3313.1585	5982.1464	T 1796814.2000	2362.8349	5392.9945	1900.2166	1472.6301
4	16:05:05	2815.4755	3545.7542	6212.3147	1767391.1000	2362.8349	5696.9466	1990.2376	1530.1405
5	16:05:42	2980.5329	3483.2278	6229.8278	1808141.5000	2300.3174	5629.4008	1960.2305	1620.1575
x		2815.4767	3353.6758	5998.6613	T 1730348.6000	2252.5552	5394.7493	1897.2163	1498.1350
%RSD		5.550	4.591	4.232	T 5.129	5.871	5.112	4.840	5.402

Run	Time	208Pb	209Bi	220Bkg
1	16:03:15	3503.2362	1153405.5000	0.0000
2	16:03:52	3805.8689	1217823.8000	0.0000
3	16:04:28	3850.8896	1260426.1000	0.0000
4	16:05:05	4020.9699	1293806.0000	0.0000
5	16:05:42	4116.0162	1313323.7000	0.0000
x		3859.3961	1247757.0000	0.0000
%RSD		6.101	5.128	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:09:12	258771.3300	142559.0400	689783.5100	97593.1380	113077.0100	554301.6400	21069.1010	577233.9700
2	16:09:48	259856.8400	142420.8800	707788.3900	101666.4000	114465.7800	557182.0300	21066.5940	581926.5700
3	16:10:25	260357.9500	142258.9800	711228.5900	101129.9300	115966.3200	559622.7100	21628.0300	588169.0400
4	16:11:02	263889.8100	142560.7400	713734.8800	100669.4100	115773.6600	566566.6700	22054.1450	589778.2600
5	16:11:39	260804.0800	143950.1500	719037.9700	101595.5500	118182.1200	573002.6500	22332.3840	590870.4600
x		260736.0000	142749.9600	708314.6700	100530.8900	115492.9800	562135.1400	21630.0510	585595.6600
%RSD		0.736	0.478	1.573	1.682	1.644	1.349	2.641	0.993

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:09:12	187.5021	711649.8800	674373.0900	ID 75086.7640	862536.7200	1278377.1000	27643.2730	861613.1100
2	16:09:48	152.5014	717231.8400	676901.2400	ID 76055.4900	880103.9000	1282128.2000	27969.3580	873350.8000
3	16:10:25	172.5018	719269.2100	684159.5600	ID 74685.6840	880755.1100	1311216.0000	27726.0470	876211.5000
4	16:11:02	205.0025	725212.6700	689349.7300	ID 76247.2300	884716.0600	1319041.2000	28104.8130	883238.4600
5	16:11:39	147.5013	728172.3100	687270.5800	ID 76570.1710	887760.7500	1314555.9000	27976.8840	886396.3300
x		173.0018	720307.1800	682410.8400	ID 75729.0680	879174.5100	1301063.7000	27884.0750	876162.0400
%RSD		13.876	0.909	0.955	ID 1.061	1.115	1.479	0.689	1.104

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:09:12	194393.6900	475594.9100	228736.7300	129858.9800	114819.7700	29636.7730	11880.9630	45.8335
2	16:09:48	196906.6700	475547.3000	230735.7200	133008.0600	116001.8000	30412.8960	12344.9700	46.6668
3	16:10:25	196837.5700	479930.6900	231020.9600	132098.7700	117170.4800	30202.1310	12105.4530	48.3335
4	16:11:02	196663.5300	482172.1900	233714.5300	134100.3600	116829.9200	30095.0780	12246.4920	53.3335
5	16:11:39	197088.3900	484138.9400	230396.5300	133470.3700	118520.2000	30412.8960	12280.7090	66.6669
x		196377.9700	479476.8000	230920.8900	132507.3100	116668.4400	30151.9550	12171.7180	52.1668
%RSD		0.570	0.806	0.778	1.246	1.179	1.058	1.517	16.509

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	16:09:12	929001.1100	626623.2200	8279.1106	620928.5000	127048.6500	303285.2800	1075930.6000	17.5000
2	16:09:48	942160.2900	641634.7400	8409.2408	623433.0100	129931.3400	307871.4400	1092611.2000	20.0000
3	16:10:25	948106.3500	642579.8100	8822.1674	628028.3100	130299.5300	310951.4400	1093178.9000	30.0001
4	16:11:02	944630.3500	645407.5400	8772.1146	630560.4700	130550.9100	311287.3900	1109303.2000	32.5001
5	16:11:39	959322.6700	651527.3400	8787.1304	631807.3000	132117.8200	313277.4200	1113507.4000	5.0000
x		944644.1500	641554.5300	8613.9527	626951.5200	129989.6500	309334.6000	1096906.2000	21.0000
%RSD		1.158	1.433	2.916	0.741	1.418	1.259	1.369	52.300

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:09:12	350848.4100	85377.6310	146684.7200	1659229.4000	538475.3500	1322685.6000	457743.1800	361006.2500
2	16:09:48	362600.7900	85066.9790	151166.2500	1699204.9000	554766.0700	1365728.0000	469054.3800	371489.7400
3	16:10:25	362185.8100	87168.5290	152189.6300	1703677.7000	558463.7000	1371973.9000	473236.1400	375245.0000
4	16:11:02	366482.6900	86254.0880	154723.1400	1722606.9000	561923.8300	1376337.0000	475787.9700	375778.2400
5	16:11:39	368381.2100	87560.1020	153516.1300	1737254.7000	568238.7100	1391578.3000	480084.1600	381562.3800
x		362099.7800	86285.4660	151655.9700	1704394.7000	556373.5300	1365660.6000	471181.1700	373016.3200
%RSD		1.881	1.258	2.035	1.730	2.007	1.893	1.807	2.043

Run	Time	208Pb	209Bi	220Bkg
1	16:09:12	926749.9300	1196500.9000	0.0000
2	16:09:48	955171.4700	1235220.8000	0.0000
3	16:10:25	971947.6200	1253777.4000	0.0000
4	16:11:02	969472.6900	1257930.3000	0.0000
5	16:11:39	979937.0800	1261629.4000	0.0000
x		960655.7600	1241011.8000	0.0000
%RSD		2.181	2.166	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:15:08	254884.2400	19.1667	1560.1460	145.0013	190.0022	797.5382	717.5309	563234.2600
2	16:15:45	258429.2900	13.3333	1465.1288	140.0012	225.0030	772.5358	687.5284	579147.6400
3	16:16:21	262593.9900	30.8334	1695.1724	210.0027	305.0056	785.0370	765.0351	588805.4600
4	16:16:58	264271.6300	58.3335	2295.3161	195.0023	275.0045	1132.5770	740.0329	596597.7000
5	16:17:35	266047.6500	46.6668	2205.2918	320.0061	390.0091	1127.5763	760.0347	599481.5300
x		261245.3600	33.6668	1844.2110	202.0027	277.0049	923.0528	734.0324	585453.3200
%RSD		1.738	55.751	20.656	35.981	27.865	20.497	4.366	2.513

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:15:08	197.5023	315.0060	1467.6292	ID 3193.1116	162.5016	154679.8500	1412.6197	60.0002
2	16:15:45	175.0018	282.5048	1495.1341	ID 3118.0832	177.5019	157249.7800	1330.1061	20.0000
3	16:16:21	145.0013	347.5073	1570.1479	ID 3365.6795	230.0032	160337.7900	1365.1118	77.5004
4	16:16:58	145.0013	427.5110	1670.1674	ID 3405.6958	357.5077	161650.2900	1370.1126	260.0041
5	16:17:35	127.5010	532.5170	1690.1714	ID 3465.7205	395.0094	161675.7800	1345.1086	282.5048
x		158.0015	381.0092	1578.6500	ID 3309.6581	264.5047	159118.7000	1364.6118	140.0019
%RSD		17.669	26.344	6.349	ID 4.456	40.031	1.928	2.290	87.053

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:15:08	15.0000	170.0017	120.0009	745.0333	17.5000	734.1990	52.5002	48.3335
2	16:15:45	30.0001	192.5022	90.0005	682.5280	7.5000	719.1977	50.8335	55.0002
3	16:16:21	25.0000	230.0032	67.5003	745.0333	22.5000	726.6984	36.6667	45.8335
4	16:16:58	90.0005	330.0065	157.5015	790.0375	47.5001	733.3656	72.5003	45.0001
5	16:17:35	100.0006	287.5050	142.5012	742.5331	29.1667	797.5382	44.1668	43.3334
x		52.0002	242.0037	115.5009	741.0330	24.8334	742.1998	51.3335	47.5001
%RSD		76.501	27.405	32.010	5.164	60.141	4.247	26.065	9.609

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:15:08	895044.0000	68.7503	10.0000	65.0003	7.5000	17.5000	1023780.7000	15.0000
2	16:15:45	923357.5400	67.5003	2.5000	48.7501	8.7500	8.7500	1065321.0000	15.0000
3	16:16:21	949329.5600	60.0002	2.5000	67.5003	20.0000	42.5001	1089693.6000	7.5000
4	16:16:58	959839.9600	135.0011	7.5000	75.0003	35.0001	98.7506	1110102.3000	15.0000
5	16:17:35	964771.1200	102.5006	10.0000	107.5007	36.2501	103.7507	1117773.4000	20.0000
x		938468.4400	86.7505	6.5000	72.7503	21.5000	54.2503	1081334.2000	14.5000
%RSD		3.098	36.390	58.330	29.770	64.138	82.381	3.520	30.842

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:15:08	710.0303	5.0000	2.5000	1541014.4000	78.7504	202.5025	92.5005	102.5006
2	16:15:45	720.0311	2.5000	15.0000	1605206.9000	92.5005	221.2529	97.5006	75.0003
3	16:16:21	762.5349	7.5000	20.0000	1656588.1000	125.0009	282.5048	137.5011	110.0007
4	16:16:58	722.5313	37.5001	57.5002	T 1764319.1000	237.5034	565.0192	217.5028	180.0019
5	16:17:35	687.5284	30.0001	70.0003	1724019.2000	260.0041	562.5190	275.0045	185.0021
x		720.5312	16.5000	33.0001	T 1658229.5000	158.7519	366.7597	164.0019	130.5011
%RSD		3.781	97.371	88.250	T 5.405	53.061	49.696	48.609	37.745

Run	Time	208Pb	209Bi	220Bkg
1	16:15:08	220.0029	1107737.8000	0.0000
2	16:15:45	210.0027	1162278.3000	0.0000
3	16:16:21	302.5055	1199029.9000	0.0000
4	16:16:58	530.0169	1227665.7000	0.0000
5	16:17:35	542.5177	1246014.6000	0.0000
x		361.0091	1188545.3000	0.0000
%RSD		45.435	4.640	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:21:03	262759.0800	20.0000	1417392.4000	196387.1200	230391.3900	34187.4830	346228.5800	574551.5300
2	16:21:40	265863.5800	12.5000	T 1432428.9000	204140.1400	236663.5300	34694.5730	361507.2800	592327.3800
3	16:22:17	270871.8900	18.3334	T 1454857.3000	205523.5200	240038.0100	34817.5840	364717.7300	594351.6600
4	16:22:53	269278.1400	25.0000	1525667.3000	210485.0900	246724.0900	35477.8600	369990.1900	599611.6600
5	16:23:30	271556.1300	20.8334	T 1499204.5000	212325.9100	244736.7600	36178.3620	376400.4000	609402.5400
x		268065.7600	19.3334	T 1465910.1000	205772.3600	239710.7500	35071.1730	363768.8400	594048.9600
%RSD		1.377	23.490	T 3.103	3.035	2.725	2.199	3.110	2.146

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:21:03	310.0058	3683.3138	1860.2076	ID 5586.8722	21106.6960	195880.4100	7533.4036	275.0045
2	16:21:40	290.0051	3783.3586	1790.1923	ID 5609.3873	21111.7080	199520.2400	7113.0344	257.5040
3	16:22:17	345.0071	3568.2638	1827.7004	ID 5884.5770	21309.7110	201384.2900	7090.5152	312.5059
4	16:22:53	250.0038	3888.4070	1955.2293	ID 5777.0017	21337.2820	203889.1000	7113.0344	315.0060
5	16:23:30	277.5046	4231.0738	1917.7206	ID 6077.2151	21582.9130	204900.9700	6650.1524	317.5061
x		294.5053	3830.8834	1870.2101	ID 5787.0107	21289.6620	201115.0000	7100.0280	295.5053
%RSD		12.101	6.610	3.566	ID 3.514	0.921	1.794	4.401	9.295

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:21:03	847.5431	4336.1278	2082.7602	603372.8700	520.8496	772.5358	101.6673	55.0002
2	16:21:40	817.5401	4431.1778	2272.8099	615517.0700	553.3517	877.5462	125.8343	34.1667
3	16:22:17	760.0347	4541.2370	2305.3188	625726.9900	572.5197	802.5386	112.5008	49.1668
4	16:22:53	827.5411	4523.7275	2230.2984	625761.9800	541.6843	818.3735	128.3343	56.6669
5	16:23:30	852.5436	4513.7221	2230.2984	636614.5400	594.1879	840.0423	103.3340	59.1669
x		821.0405	4469.1985	2224.2972	621398.6900	556.5186	822.2073	114.3341	50.8335
%RSD		4.504	1.915	3.830	2.018	5.064	4.807	10.828	19.706

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:21:03	921461.3800	101.2506	245.0036	103.7507	2913.0090	7220.6269	1063278.1000	20.0000
2	16:21:40	945903.3300	91.2505	182.5020	101.2506	3039.3041	7385.7715	1099801.2000	32.5001
3	16:22:17	962038.0800	106.2507	217.5028	107.5007	3290.6496	7753.6054	1117938.5000	30.0001
4	16:22:53	973126.5300	150.0014	272.5045	133.7511	3236.8785	7692.2986	1126439.8000	27.5000
5	16:23:30	987703.7700	173.7518	237.5034	152.5014	3420.7019	7763.6147	1149029.6000	27.5000
x		958046.6200	124.5010	231.0033	119.7509	3180.1086	7563.1834	1111297.4000	27.5000
%RSD		2.666	28.554	14.512	18.752	6.377	3.252	2.893	17.008

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:21:03	6912.8661	2137.7742	3795.8643	1651048.0000	198.7524	552.5183	57621.0250	50736.4830
2	16:21:40	6935.3848	2377.8392	4203.5599	1722923.5000	238.7534	571.2696	61004.9820	52419.3500
3	16:22:17	7083.0089	2310.3202	4261.0891	1760252.7000	245.0036	693.7789	63150.8790	54122.6870
4	16:22:53	6990.4307	2382.8406	4223.5700	1805107.0000	315.0060	745.0333	63838.5890	55028.5910
5	16:23:30	7575.9421	2432.8551	4356.1383	1816463.8000	332.5066	730.0320	64624.6130	56531.0980
x		7099.5265	2328.3259	4168.0443	1751159.0000	266.0044	658.5264	62048.0170	53767.6420
%RSD		3.863	4.943	5.186	3.839	21.041	13.728	4.540	4.196

Run	Time	208Pb	209Bi	220Bkg
1	16:21:03	125787.2300	1188245.3000	0.0000
2	16:21:40	131781.3000	1241616.2000	0.0000
3	16:22:17	136503.9200	1266583.3000	0.0000
4	16:22:53	137805.0700	1293782.8000	2.5000
5	16:23:30	140982.5600	1316016.8000	0.0000
x		134572.0200	1261248.9000	0.5000
%RSD		4.400	3.925	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:26:58	263991.2800	17.5000	T 3423574.3000	485703.6700	566384.9200	83589.6420	M 881187.4300	573262.1100
2	16:27:35	268201.7400	20.0000	T 3516878.5000	507188.6000	588281.5800	84799.2710	M 899566.8200	581490.1300
3	16:28:12	268763.5800	20.0000	T 3526253.2000	507857.5500	586389.9900	84498.7410	M 913725.0400	586292.2000
4	16:28:48	267306.1500	11.6667	T 3601251.1000	508521.2500	597139.5200	85274.0790	M 921422.4000	591090.2500
5	16:29:25	269585.3300	20.8334	T 3617163.8000	517892.7900	600611.1800	84753.8120	M 932883.5200	597843.6600
x		267569.6200	18.0000	T 3537024.2000	505432.7700	587761.4400	84583.1090	M 909757.0400	585995.6700
%RSD		0.809	20.859	T 2.187	2.347	2.270	0.735	M 2.203	1.594

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:26:58	527.5167	9700.6429	2297.8168	ID 8719.5595	49375.8460	255853.2700	16438.6980	675.0273
2	16:27:35	562.5190	10238.7860	2435.3558	ID 9007.3653	50922.6130	259421.0700	15915.1830	650.0254
3	16:28:12	415.0103	10421.5120	2417.8507	ID 9267.6505	51372.8640	261556.2800	15677.2330	662.5263
4	16:28:48	487.5143	10609.2490	2545.3887	ID 9185.0591	50960.3420	262471.9000	15316.5630	722.5313
5	16:29:25	465.0130	11047.3180	2557.8925	ID 9119.9877	51322.5550	262518.3300	14893.2970	650.0254
x		491.5147	10403.5020	2450.8609	ID 9059.9244	50790.8440	260364.1700	15648.1950	672.0271
%RSD		11.558	4.754	4.335	ID 2.348	1.609	1.082	3.749	4.475

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:26:58	2015.2436	10053.5610	4948.9691	1491880.8000	1279.2649	949.2207	202.5025	50.8335
2	16:27:35	2005.2412	9958.4467	5034.0200	1516331.1000	1365.9453	965.0559	204.1692	70.8336
3	16:28:12	2030.2473	10439.0340	5074.0443	1539683.7000	1313.4368	968.3896	189.1688	68.3336
4	16:28:48	2055.2534	10258.8110	5061.5367	1542366.1000	1422.6214	1036.7312	205.0025	60.8336
5	16:29:25	1965.2317	10759.4410	5106.5641	1554128.1000	1460.1279	996.7263	205.8359	62.5002
x		2014.2435	10293.8590	5045.0268	1528878.0000	1368.2793	983.2247	201.3358	62.6669
%RSD		1.651	3.108	1.183	1.623	5.460	3.505	3.433	12.418

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:26:58	910448.8900	198.7524	472.5134	185.0021	7373.2605	17594.8050	1044097.4000	35.0001
2	16:27:35	927577.3400	190.0022	572.5197	193.7523	7539.6592	18322.6210	1079387.8000	27.5000
3	16:28:12	937975.3300	206.2526	507.5155	190.0022	7649.7595	18301.3240	1090068.2000	27.5000
4	16:28:48	947081.5500	202.5025	510.0156	192.5022	7711.0660	18447.8970	1093970.9000	35.0001
5	16:29:25	957130.8200	198.7524	485.0141	163.7516	7935.0261	18842.5280	1105245.9000	40.0001
x		936042.7800	199.2524	509.5157	185.0021	7641.7543	18301.8350	1082554.0000	33.0001
%RSD		1.924	3.028	7.565	6.672	2.725	2.465	2.162	16.424

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:26:58	16203.2370	5694.4449	9860.8307	1640360.9000	483.7640	1221.3395	143606.8000	124835.5800
2	16:27:35	16341.0060	5561.8554	10353.9280	1686484.9000	531.2669	1332.6065	147091.8000	128950.0300
3	16:28:12	16816.9510	5862.0611	10499.1100	1720187.7000	575.0198	1206.3373	152245.6400	132266.4000
4	16:28:48	17095.0160	5887.0787	10681.8420	1742691.5000	553.7684	1260.0953	152826.1200	133523.7100
5	16:29:25	17150.1290	6307.3861	10464.0660	1756794.0000	542.5177	1293.8504	155828.4500	135243.6200
x		16721.2680	5862.5653	10371.9550	1709303.8000	537.2674	1262.8458	150319.7600	130963.8700
%RSD		2.582	4.803	2.980	2.738	6.328	4.105	3.256	3.152

Run	Time	208Pb	209Bi	220Bkg
1	16:26:58	312532.7300	1159067.6000	0.0000
2	16:27:35	324102.3200	1201622.8000	0.0000
3	16:28:12	332646.8200	1226693.1000	0.0000
4	16:28:48	334563.8100	1241161.6000	0.0000
5	16:29:25	341382.1500	1249625.1000	0.0000
x		329045.5700	1215634.0000	0.0000
%RSD		3.373	3.002	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:32:54	260351.0700	11.6667	678598.8200	95848.0590	110082.3200	17378.1010	168608.6500	568245.3900
2	16:33:30	263722.1300	10.8333	710201.2800	100542.9000	117456.9800	18069.5690	175858.7000	580622.6700
3	16:34:07	267553.0500	11.6667	722308.4700	102000.4500	117102.0300	18264.9950	178052.0500	585370.6800
4	16:34:44	266522.4700	15.0000	736313.1100	103944.2500	120733.3000	18367.7200	179145.1000	593820.7500
5	16:35:20	270918.3700	11.6667	753447.8200	104774.5500	121413.0700	18788.6570	185149.2200	602275.0700
x		265813.4200	12.1667	720173.9000	101422.0400	117357.5400	18173.8080	177362.7400	586066.9100
%RSD		1.502	13.352	3.927	3.478	3.831	2.843	3.373	2.209

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:32:54	280.0047	2837.9832	1727.6791	ID 4208.5625	9963.4527	178029.0600	4896.4381	152.5014
2	16:33:30	222.5030	2827.9798	1750.1838	ID 4376.1487	10439.0340	181318.8600	4388.6553	125.0009
3	16:34:07	267.5043	2665.4262	1695.1724	ID 4563.7493	10631.7780	181196.2400	4758.8584	182.5020
4	16:34:44	210.0027	2717.9432	1765.1869	ID 4606.2727	10566.6950	183641.4000	4201.0587	212.5027
5	16:35:20	227.5031	2667.9270	1785.1912	ID 4686.3173	10591.7270	185445.7000	4251.0840	192.5022
x		241.5035	2743.4519	1744.6827	ID 4488.2101	10438.5370	181926.2500	4499.2189	173.0019
%RSD		12.607	3.078	1.992	ID 4.310	2.636	1.541	6.921	19.930

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:32:54	470.0133	2132.7729	1090.0713	294594.2000	279.1713	760.0347	87.5005	55.0002
2	16:33:30	387.5090	2147.7767	1095.0719	302362.6500	290.0051	722.5313	69.1670	39.1668
3	16:34:07	522.5164	2240.3011	1102.5729	307376.1500	241.6702	785.8704	84.1671	65.0003
4	16:34:44	420.0106	2350.3314	1150.0794	310986.4600	298.3387	759.2013	80.8337	45.0001
5	16:35:20	450.0122	2357.8335	1160.0807	313209.9600	272.5045	774.2026	85.8338	51.6668
x		450.0123	2245.8031	1119.5753	305705.8800	276.3379	760.3681	81.5004	51.1668
%RSD		11.365	4.769	2.939	2.435	7.877	3.136	8.984	19.257

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:32:54	891028.4500	56.2502	132.5011	36.2501	1468.8794	3481.9773	1032152.7000	25.0000
2	16:33:30	919994.2900	66.2503	115.0008	56.2502	1502.6355	3685.8149	1064831.4000	30.0001
3	16:34:07	944197.6900	92.5005	117.5008	70.0003	1633.9102	3645.7973	1088170.0000	17.5000
4	16:34:44	949564.1700	95.0005	130.0010	86.2504	1621.4077	3674.5600	1101932.1000	15.0000
5	16:35:20	962102.4100	130.0010	102.5006	97.5006	1556.3953	3813.3723	1125411.2000	20.0000
x		933377.4000	88.0005	119.5009	69.2503	1556.6456	3660.3044	1082499.5000	21.5000
%RSD		3.019	32.711	10.185	34.969	4.631	3.241	3.298	28.004

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:32:54	3280.6456	1097.5723	1877.7115	1570232.6000	128.7510	251.2538	27628.2230	24022.0740
2	16:33:30	3333.1665	1155.0800	1940.2258	1638822.7000	151.2514	305.0056	29080.6530	25075.1690
3	16:34:07	3475.7247	1132.5770	2200.2904	1692707.7000	113.7508	345.0071	30623.6650	26130.9050
4	16:34:44	3583.2702	1252.5941	2050.2522	1731812.0000	156.2515	428.7610	30688.9050	26928.4380
5	16:35:20	3608.2810	1162.5811	2155.2787	T 1808802.3000	146.2513	385.0089	31903.4530	27487.7600
x		3456.2176	1160.0809	2044.7517	T 1688475.5000	139.2512	343.0073	29984.9800	25928.8690
%RSD		4.233	4.962	6.709	T 5.365	12.657	20.085	5.519	5.398

Run	Time	208Pb	209Bi	220Bkg
1	16:32:54	59879.3620	1132676.3000	2.5000
2	16:33:30	63717.6690	1183707.4000	0.0000
3	16:34:07	65987.7330	1225465.7000	0.0000
4	16:34:44	67373.7570	1259251.9000	0.0000
5	16:35:20	68671.7880	1277032.4000	0.0000
x		65126.0620	1215626.7000	0.5000
%RSD		5.312	4.809	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:38:50	264865.0300	10.0000	465.0130	50.0001	105.0007	820.0404	482.5140	586565.4700
2	16:39:26	265589.2100	15.8333	665.0265	90.0005	120.0009	885.0470	435.0114	601977.1500
3	16:40:03	267909.2200	7.5000	820.0404	125.0009	135.0011	827.5411	505.0153	608482.5800
4	16:40:39	270840.0500	15.8333	825.0408	85.0004	140.0012	912.5500	472.5134	614568.2400
5	16:41:16	272941.9900	15.8333	905.0491	185.0021	110.0007	987.5585	405.0098	616310.0900
x		268429.1000	13.0000	736.0340	107.0008	122.0009	886.5474	460.0128	605580.7000
%RSD		1.280	30.609	23.731	47.723	12.498	7.730	8.653	1.987

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:38:50	210.0027	372.5083	1417.6206	ID 3353.1745	175.0018	162731.0200	1327.6057	40.0001
2	16:39:26	220.0029	420.0106	1552.6446	ID 3453.2153	172.5018	164538.5000	1300.1014	40.0001
3	16:40:03	182.5020	410.0101	1502.6355	ID 3648.2984	152.5014	167491.4600	1240.0923	52.5002
4	16:40:39	162.5016	395.0094	1545.1432	ID 3513.2404	155.0014	167843.4300	1232.5912	50.0001
5	16:41:16	212.5027	395.0094	1532.6409	ID 3623.2875	157.5015	168141.8600	1237.5919	25.0000
x		197.5024	398.5095	1510.1370	ID 3518.2432	162.5016	166149.2500	1267.5965	41.5001
%RSD		12.240	4.515	3.650	ID 3.465	6.436	1.441	3.425	26.120

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:38:50	15.0000	117.5008	35.0001	437.5115	9.1667	727.5318	45.8335	55.0002
2	16:39:26	12.5000	125.0009	75.0003	467.5131	6.6667	727.5318	50.8335	58.3335
3	16:40:03	30.0001	117.5008	45.0001	490.0144	10.0000	755.8676	54.1668	43.3334
4	16:40:39	15.0000	115.0008	77.5004	520.0162	21.6667	766.7019	55.0002	49.1668
5	16:41:16	22.5000	177.5019	40.0001	530.0169	17.5000	750.8672	35.8334	51.6668
x		19.0000	130.5011	54.5002	489.0144	13.0000	745.7000	48.3335	51.5002
%RSD		37.908	20.337	37.040	7.759	48.524	2.353	16.266	11.117

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:38:50	946877.7300	30.0001	5.0000	23.7500	1.2500	1.2500	1088445.2000	25.0000
2	16:39:26	968263.4700	36.2501	2.5000	18.7500	3.7500	11.2500	1129808.3000	15.0000
3	16:40:03	983494.3300	38.7501	2.5000	37.5001	1.2500	6.2500	1150038.0000	27.5000
4	16:40:39	985976.0000	50.0001	0.0000	31.2501	3.7500	7.5000	1156193.9000	20.0000
5	16:41:16	992914.3600	46.2501	10.0000	50.0001	1.2500	8.7500	1160906.6000	12.5000
x		975505.1800	40.2501	4.0000	32.2501	2.2500	7.0000	1137078.4000	20.0000
%RSD		1.882	19.813	94.786	37.917	60.858	52.973	2.609	31.869

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:38:50	62.5002	5.0000	7.5000	1674284.9000	75.0003	155.0014	45.0001	47.5001
2	16:39:26	87.5005	0.0000	7.5000	1748180.4000	72.5003	177.5019	70.0003	37.5001
3	16:40:03	70.0003	2.5000	17.5000	1784138.4000	77.5004	177.5019	77.5004	62.5002
4	16:40:39	65.0003	7.5000	5.0000	1809794.3000	80.0004	192.5022	52.5002	75.0003
5	16:41:16	87.5005	2.5000	0.0000	1819914.2000	76.2503	211.2527	52.5002	67.5003
x		74.5003	3.5000	7.5000	1767262.4000	76.2503	182.7520	59.5002	58.0002
%RSD		16.337	81.441	84.984	3.333	3.666	11.388	22.898	26.290

Run	Time	208Pb	209Bi	220Bkg
1	16:38:50	95.0005	1216409.0000	0.0000
2	16:39:26	135.0011	1271273.5000	0.0000
3	16:40:03	157.5015	1307212.8000	0.0000
4	16:40:39	130.0010	1323734.1000	0.0000
5	16:41:16	170.0017	1320868.3000	0.0000
x		137.5012	1287899.6000	0.0000
%RSD		20.968	3.501	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:44:46	263098.7100	580.8536	265.0042	25.0000	15.0000	1390.1159	372.5083	577704.9900
2	16:45:23	265531.5800	567.5193	285.0049	40.0001	50.0001	1472.6301	350.0074	587614.3800
3	16:45:59	265209.0500	620.8565	380.0087	60.0002	80.0004	1795.1933	440.0116	599892.0500
4	16:46:36	268265.4100	592.5211	540.0175	85.0004	95.0005	1802.6950	407.5100	602577.0100
5	16:47:13	270013.0200	587.5207	430.0111	60.0002	90.0005	1662.6659	377.5086	603080.2900
x		266423.5500	589.8542	380.0093	54.0002	66.0003	1624.6600	389.5092	594173.7400
%RSD		1.021	3.341	29.525	42.127	50.650	11.529	8.956	1.876

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:44:46	180.0019	14352.3490	6787.7633	ID 3263.1388	3510.7394	159012.7700	1405.1185	3360.6775
2	16:45:23	165.0016	14525.1480	6480.0185	ID 3378.1846	3515.7415	163113.3900	1347.6090	3405.6958
3	16:45:59	135.0011	14690.4370	7215.6226	ID 3503.2362	3473.2236	166300.4600	1382.6147	3130.5879
4	16:46:36	112.5008	14655.3750	6935.3848	ID 3490.7310	3833.3815	166394.8100	1460.1279	3308.1565
5	16:47:13	152.5014	14364.8700	7078.0046	ID 3580.7691	3455.7164	166280.0600	1322.6049	3638.2941
x		149.0014	14517.6360	6899.3587	ID 3443.2119	3557.7605	164220.3000	1383.6150	3368.6824
%RSD		17.622	1.087	4.109	ID 3.599	4.388	1.965	3.848	5.443

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:44:46	752.5340	3808.3700	1835.2021	1337.6073	465.8464	1285.0991	284.1715	45.0001
2	16:45:23	837.5421	3895.9105	1902.7172	1287.5995	458.3459	1336.7739	305.0056	46.6668
3	16:45:59	810.0394	4070.9941	1910.2189	1382.6147	474.1802	1380.9477	281.6714	60.8336
4	16:46:36	747.5335	4096.0064	1847.7048	1407.6189	492.5146	1343.4416	304.1722	57.5002
5	16:47:13	817.5401	4101.0088	1885.2132	1412.6197	465.0130	1432.6231	310.0058	55.0002
x		793.0378	3994.4580	1876.2112	1365.6120	471.1800	1355.7771	297.0053	53.0002
%RSD		5.115	3.356	1.775	3.863	2.798	4.048	4.404	12.994

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:44:46	910576.7900	2380.3399	20.0000	2287.8140	472.5134	1113.8244	1051697.4000	27.5000
2	16:45:23	938231.9500	2591.6529	32.5001	2407.8478	485.0141	1147.5790	1079390.6000	20.0000
3	16:45:59	949413.3500	2512.8788	45.0001	2476.6180	520.0162	1206.3373	1098897.9000	32.5001
4	16:46:36	958889.2900	2612.9096	50.0001	2520.3811	485.0141	1201.3366	1107551.5000	15.0000
5	16:47:13	966615.0700	2641.6686	40.0001	2575.3979	510.0156	1232.5912	1115877.8000	10.0000
x		944745.2900	2547.8900	37.5001	2453.6118	494.5147	1180.3337	1090683.0000	21.0000
%RSD		2.313	4.127	31.269	4.529	3.987	4.095	2.353	43.416

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:44:46	2527.8834	3250.6339	5481.8024	1587909.9000	2079.0093	4856.4147	1792.6928	1402.6180
2	16:45:23	2682.9318	3368.1805	5669.4279	1641121.1000	2084.0106	5055.2829	1855.2065	1440.1244
3	16:45:59	2948.0214	3443.2112	6019.6734	1674018.5000	2055.2534	5354.2195	1750.1838	1447.6257
4	16:46:36	2975.5311	3485.7289	5761.9913	1698230.5000	2161.5303	5209.1276	1867.7093	1447.6257
5	16:47:13	2925.5134	3408.1968	5932.1106	1717927.2000	2215.2944	5430.5189	2022.7455	1542.6428
x		2811.9762	3391.1903	5773.0011	1663841.5000	2119.0196	5181.1127	1857.7076	1456.1273
%RSD		7.012	2.646	3.693	3.078	3.163	4.467	5.590	3.560

Run	Time	208Pb	209Bi	220Bkg
1	16:44:46	3500.7352	1146866.0000	0.0000
2	16:45:23	3670.8083	1192132.4000	0.0000
3	16:45:59	3838.3838	1209145.9000	0.0000
4	16:46:36	3635.7930	1228655.7000	0.0000
5	16:47:13	3695.8194	1242350.8000	0.0000
x		3668.3079	1203830.2000	0.0000
%RSD		3.306	3.083	0.000

CCV4 07/10/2008 16:50:06

User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:50:43	259132.2900	140057.1500	684780.0500	95883.4630	111511.1300	544725.0600	20602.9370	570853.6700
2	16:51:19	261892.4300	141605.4900	705859.6400	97977.6110	113528.0900	560528.1300	21227.0010	579249.3600
3	16:51:56	263907.0100	141662.2800	711060.0900	99621.9340	117365.7000	554221.5700	21242.0390	586860.1700
4	16:52:32	263215.6500	141263.0900	721209.0900	99925.5360	116184.3200	559879.1000	21638.0560	590278.1100
5	16:53:09	264899.4300	141768.2200	730111.4600	103422.8200	118334.2600	566652.2000	21933.8280	594552.7800
x		262609.3600	141271.2500	710604.0700	99366.2720	115384.7000	557201.2100	21328.7720	584358.8200
%RSD		0.849	0.499	2.420	2.797	2.440	1.480	2.352	1.609

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:50:43	180.0019	700347.4200	659154.8100	ID 73021.0290	859738.5300	1254533.3000	26976.0920	850241.8400
2	16:51:19	175.0018	715891.0800	673379.9000	ID 74942.9780	869735.4000	1280925.0000	27327.2330	864190.6200
3	16:51:56	140.0012	717182.8800	682861.8300	ID 76981.4340	879236.6200	1297697.1000	28089.7620	877848.5900
4	16:52:32	137.5011	720017.3600	685237.9900	ID 76991.5260	889169.7600	1314721.8000	28032.0690	885456.3400
5	16:53:09	167.5017	726100.1900	685839.5900	ID 77892.3400	894566.5900	1333169.6000	28445.9680	887025.8200
x		160.0016	715907.7900	677294.8200	ID 75965.8610	878489.3800	1296209.4000	27774.2250	872952.6400
%RSD		12.451	1.333	1.670	ID 2.592	1.611	2.340	2.171	1.785

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:50:43	191676.8400	462833.0900	227606.4000	127414.1700	112892.8800	29481.2230	11820.0440	48.3335
2	16:51:19	194373.2200	475140.0300	230393.9600	131402.9000	115594.5400	29677.7520	12092.1000	45.8335
3	16:51:56	194094.3400	479420.0200	231241.9700	132352.7500	116224.0400	30346.8220	11990.2860	56.6669
4	16:52:32	195670.5600	481703.7300	232519.2800	133998.7500	116376.9800	30265.6940	12090.4310	61.6669
5	16:53:09	196986.0100	487827.5000	232709.4800	135393.5200	118124.6500	30473.1150	12475.1640	53.3335
x		194560.1900	477384.8700	230894.2200	132112.4200	115842.6200	30048.9210	12093.6050	53.1668
%RSD		1.018	1.956	0.896	2.301	1.638	1.466	1.988	11.958

Run	Time	89Y	107Ag	108Mo O	109Ag	111Cd	114Cd	115In	118Sn
1	16:50:43	916022.9600	614806.1100	8256.5882	597407.7600	123546.5900	293269.9500	1046604.6000	7.5000
2	16:51:19	936527.7900	631804.6100	8264.0957	617682.5800	128377.5400	303843.8400	1084252.8000	25.0000
3	16:51:56	944677.8000	642637.7900	8511.8449	627917.9400	130163.6800	309884.0100	1103333.1000	10.0000
4	16:52:32	956921.1700	649226.5100	8601.9373	635294.2700	131721.6200	312958.2600	1116947.9000	25.0000
5	16:53:09	972440.4500	658623.9500	9017.3761	641386.7000	132623.2500	317524.9800	1137074.2000	15.0000
x		945318.0300	639419.7900	8530.3685	623937.8500	129286.5400	307496.2100	1097642.5000	16.5000
%RSD		2.248	2.639	3.653	2.767	2.778	3.050	3.138	49.793

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:50:43	339658.8400	81615.2150	142086.0700	1597409.9000	516660.9900	1269019.3000	440055.0200	347632.7600
2	16:51:19	353932.2900	85097.2860	148552.3700	1674684.6000	544803.7100	1337299.5000	463968.7000	366174.5800
3	16:51:56	363383.8100	86337.4440	151904.4900	1716272.6000	559613.3600	1368826.3000	474322.8900	374957.4800
4	16:52:32	370431.6700	87014.4310	154338.6100	1748024.7000	572638.8700	1405729.7000	482029.2600	383927.3700
5	16:53:09	376850.0500	88239.7140	155359.8300	1766091.4000	580360.3000	1421231.3000	490049.8700	390984.3900
x		360851.3300	85660.8180	150448.2700	1700496.6000	554815.4500	1360421.2000	470085.1500	372735.3200
%RSD		4.042	2.955	3.562	3.956	4.550	4.458	4.117	4.522

Run	Time	208Pb	209Bi	220Bxa
1	16:50:43	891833.0700	1154505.9000	0.0000
2	16:51:19	940625.5700	1218629.9000	2.5000
3	16:51:56	961288.5300	1249473.4000	0.0000
4	16:52:32	981893.5300	1272006.2000	0.0000
5	16:53:09	1001779.7000	1299225.0000	0.0000
x		955484.0800	1238768.1000	0.5000
%RSD		4.424	4.491	223.607

CCB4 07/10/2008 16:56:03

User Pre-dilution: 1.00

Run	Time	6Li	9Be	24Mg	25Mg	26Mg	27Al	44Ca	45Sc
1	16:56:40	262067.8100	13.3333	280.0047	10.0000	15.0000	895.0481	295.0052	584220.2600
2	16:57:17	264677.5500	20.8334	325.0063	80.0004	75.0003	955.0547	395.0094	590563.5600
3	16:57:53	265602.1100	40.8334	675.0273	70.0003	100.0006	1125.0759	420.0106	596904.8200
4	16:58:30	268502.0200	82.5004	1685.1704	220.0029	240.0035	1712.6760	570.0195	596466.2700
5	16:59:07	268985.5800	95.0005	1675.1684	265.0042	280.0047	1795.1933	552.5183	603872.1600
x		265967.0100	50.5002	928.0754	129.0016	142.0018	1296.6096	446.5126	594405.4100
%RSD		1.072	72.482	75.791	83.868	79.542	32.926	25.731	1.244

Run	Time	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	16:56:40	167.5017	275.0045	1460.1279	ID 3460.7184	137.5011	159163.1000	1265.0960	32.5001
2	16:57:17	180.0019	250.0038	1380.1143	ID 3433.2071	207.5026	160098.2500	1307.6026	65.0003
3	16:57:53	137.5011	307.5057	1537.6418	ID 3473.2236	272.5045	162463.3700	1337.6073	180.0019
4	16:58:30	205.0025	567.5193	1952.7288	ID 3440.7102	620.0231	162807.4900	1425.1218	430.0111
5	16:59:07	187.5021	612.5225	1902.7172	ID 3485.7289	627.5236	163763.4500	1395.1168	547.5180
x		175.5019	402.5112	1646.6660	ID 3458.7176	373.0110	161659.1300	1346.1089	251.0063
%RSD		14.366	43.009	15.980	ID 0.633	62.694	1.200	4.809	90.706

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr
1	16:56:40	32.5001	212.5027	90.0005	387.5090	14.1667	731.6988	56.6669	45.8335
2	16:57:17	32.5001	142.5012	72.5003	455.0124	18.3334	766.7019	50.0001	33.3334
3	16:57:53	77.5004	252.5038	122.5009	492.5146	26.6667	735.8658	58.3335	46.6668
4	16:58:30	100.0006	437.5115	200.0024	675.0273	69.1670	785.0370	57.5002	55.0002
5	16:59:07	162.5016	435.0114	217.5028	647.5252	73.3337	736.6992	77.5004	49.1668
x		81.0005	296.0061	140.5014	531.5177	40.3335	751.2006	60.0002	46.0001
%RSD		66.827	45.254	46.356	23.455	70.952	3.130	17.208	17.253

Run	Time	89Y	107Ag	108MoO	109Ag	111Cd	114Cd	115In	118Sn
1	16:56:40	924944.9500	92.5005	7.5000	56.2502	5.0000	5.0000	1075264.8000	17.5000
2	16:57:17	948097.9700	81.2504	2.5000	50.0001	10.0000	15.0000	1095634.7000	5.0000
3	16:57:53	948840.8100	82.5004	0.0000	90.0005	13.7500	47.5001	1105501.7000	10.0000
4	16:58:30	958592.9200	236.2534	5.0000	192.5022	67.5003	157.5015	1115988.8000	15.0000
5	16:59:07	969122.7800	237.5034	10.0000	207.5026	75.0003	146.2513	1123217.7000	10.0000
x		949919.8900	146.0016	5.0000	119.2511	34.2501	74.2506	1103121.6000	11.5000
%RSD		1.724	56.900	79.057	63.275	99.335	97.901	1.700	42.377

Run	Time	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb
1	16:56:40	707.5300	2.5000	12.5000	1623629.6000	101.2506	226.2531	57.5002	35.0001
2	16:57:17	787.5372	5.0000	10.0000	1679060.6000	117.5008	331.2566	62.5002	55.0002
3	16:57:53	775.0360	25.0000	22.5000	1696618.8000	211.2527	456.2625	167.5017	125.0009
4	16:58:30	845.0428	62.5002	85.0004	1708140.4000	515.0159	1282.5987	317.5061	305.0056
5	16:59:07	792.5377	67.5003	122.5009	1727934.6000	502.5152	1208.8377	372.5083	285.0049
x		781.5368	32.5001	50.5003	1687076.8000	289.5070	701.0417	195.5033	161.0023
%RSD		6.304	95.304	100.203	2.351	70.658	71.967	74.006	78.885

Run	Time	208Pb	209Bi	220Bkg
1	16:56:40	112.5008	1182924.5000	0.0000
2	16:57:17	170.0017	1212981.7000	0.0000
3	16:57:53	262.5041	1231453.3000	0.0000
4	16:58:30	645.0250	1246553.2000	0.0000
5	16:59:07	685.0282	1259432.6000	0.0000
x		375.0120	1226669.1000	0.0000
%RSD		72.123	2.443	0.000

SDG/PREP GROUP# MH25E8/E9/F0/F2 CONTINUED FROM PAGE#: 0123

Explanations:

Physical Description Log

CASE: 37402 **SDG:** MH25E8 **DCL ID:** 8171038

DCL Sample #	Matrix	Method **	Prep Date	Amount of Sample Used (mL)	Final Volume of Digested Samples	pH	*Color/Clarity, Texture		Comments	Init.
							Before	After		
PBW	ASTM Type II H_2O	ILM05.4 HW3	06/30/08 07:00	50 mL	50 mL	N/A	N/CL	N/CL	N/A	RKA
LCSW	↓	↓	↓	50 mL	50 mL	N/A	N/CL	N/CL	N/A	↓
MH25E8	Water			50 mL	50 mL C2	N/A	N/CL	N/CL	N/A	
MH25E9				50 mL	50 mL ↓	N/A	BR/CL	BR/CL	N/A	
MH25F0	↓	↓	↓	50 mL	50 mL ↓	N/A	N/CL	N/CL	N/A	↓

COLOR	N = Colorless	BR = Brown	TEXTURE	F = Fine	CLARITY
BL = Black	GR = Gray	GN = Green		M = Medium	CL = Clear
Y = Yellow	R = Red	W = White		C = Coarse	CO = Cloudy

7/1/08 RKA

7/1/08 RKA

CONTINUED ON PAGE# X

Preparer Signature/Date: 7/1/08

Reviewer Signature/Date: 07/01/08

AIRBILL INFORMATION SHEET

There is no Airbill for this SDG.

The required notations concerning the location of the Air Bill is included in Forms DC-1, DC-2 and in the SDG Administrative Narrative (if it is required).

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG
The TR/COC lists tag numbers and the DC-1 reflects this, however the Lab did not receive actual tags for this case. In the future communication between Sample Receipt and Log-in will include the status of the tags.

Notations concerning the location of the Sample Tags are included in Forms DC-1, DC-2 and in the SDG Administrative Narrative (if it is required).

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: MH25E8

☐ ICPAES ☒ ICPMS ☐ HG ☐ CN

Laboratory Name: DataChem Laboratories, Inc.

Laboratory Code: DATAC

Contract No.: EP-W-06-054

Case No.: 37402

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis (if applicable):

Modification Reference No.: 1554.1

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH25E8	7)	13)	19)
2) MH25E9	8)	14)	20)
3) MH25F0	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

MH25E8	MH25F0
First Sample in SDG	Last Sample in SDG
06/18/08	06/18/08
First Sample Receipt Date	Last Sample Receipt Date

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

Signature: Meredith Edwards

Date: 6/19/2008

DataChem Laboratories, Inc.
CHAIN-OF-CUSTODY

Project / Job / Task: P056L001 | ***Split:*** | **Workorder ID:** 8171038

Client: U. S. EPA Region 8 | **Account:** 08201

Comments:

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Preservatives: HNO3	Containers: Count	LM054 ICP-MS, Water	LM054 Prep/Extr/Dig
1	6/5/2008 18:45	MH25E8	8171038001		Water		1	X	X
2	6/5/2008 08:07	MH25E9	8171038002		Water		1	X	X
3	6/5/2008 15:40	MH25F0	8171038003		Water		1	X	X
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinqueshed By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/18/2008 08:15	DCL Sample Receiving	Sample Login
Meredith Edwards R-33-1 RKA	6/19/08 1275 6/30/08 0700	R-33-1 out [illegible]	Storage ICPMS Prep

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICPMS

Prepared / Analyzed by: RKA

Lab Notebook No.: 337

Date / Time: 6/30/08 0700

Relinqueshed By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	7/1/08 16:00	[illegible]	ICP-MS ANALYSIS

Batch Worklist

DATA CHEM LABORATORIES, INC.

Batch EMS/ 1276 **Created** 7/14/2008 12:31 **HBN** 17647

Rule ILM ICP-MS Water Analysis **Analyst** N. Edwards **Status** WP

Workorder 8171038 **CASE** 37402 **SDG** MH25E8 **MODN** 1554.1

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
1	57371 **Run # MS208090*	S0			3	STB		ILMMSW...3	5609	1/10/2009	7/7/2008
2	57372	S2			3	STC		ILMMSW...3	5609	1/10/2009	7/7/2008
3	57373	S5			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
4	57374	S10			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
5	57375	S50			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
6	57376	S200			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
7	57377	S500			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
8	57378	S1000			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
9	57379	S1500			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
10	57380	S2000			3	STD		ILMMSW...3	5609	1/10/2009	7/7/2008
11	57381	ICV			3	ICV		ILMMSW...3	5609	1/10/2009	7/7/2008
12	57382	ICB			3	ICB		ILMMSW...3	5609	1/10/2009	7/7/2008
13	57383	CRII			3	CRI		ILMMSW...3	5609	1/10/2009	7/7/2008
14	57384	ICSA			3	ICSA		ILMMSW...3	5609	1/10/2009	7/7/2008
15	57385	ICSAB			3	ICSAB		ILMMSW...3	5609	1/10/2009	7/7/2008
16	57386	CCV			3	CCV		ILMMSW...3	5609	1/10/2009	7/7/2008
17	57387	CCB			3	CCB		ILMMSW...3	5609	1/10/2009	7/7/2008
18	55432	PBW	50 mL	50 mL	3	PBW		ILMMSW...3	6085	12/27/2008	6/28/2008
19	55433	LCSW	50 mL	50 mL	3	LCSW		ILMMSW...3	6085	12/27/2008	6/28/2008
20	8171038001	MH25E8	50 mL	50 mL	3	SAMPLE	8171038001-A	I54MSW...3	5936	12/15/2008	7/7/2008
21	8171038002	MH25E9	50 mL	50 mL	3	SAMPLE	8171038002-A	I54MSW...3	5936	12/15/2008	7/7/2008
22	8171038003 **2x for Zn*	MH25F0	50 mL	50 mL	3	SAMPLE	8171038003-A	I54MSW...3	5936	12/15/2008	7/7/2008
23	57388 **2x for Zn*	MH25F0L			3	SD		ILMMSW...3	5609	12/15/2008	7/7/2008
24	57389	CCV2			3	CCV		ILMMSW...3	5609	1/10/2009	7/7/2008
25	57390	CCB2			3	CCB		ILMMSW...3	5609	1/10/2009	7/7/2008
26	57391	CRIF			3	CRI		ILMMSW...3	5609	1/10/2009	7/7/2008

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
27	57392	CCV3			3	CCV		ILMMSW...3	5609	1/10/2009	7/7/2008
28	57393	CCB3			3	CCB		ILMMSW...3	5609	1/10/2009	7/7/2008

Batch Worklist

DATA CHEM LABORATORIES, INC.

Batch EMS/ 1252 **Created** 6/30/2008 07:26 **HBN** 17189

Rule ILM ICP-MS HW3 Prep **Analyst** R. Aullman **Status** NA

Workorder 8171038 **CASE** 37402 **SDG** MH25E8 **MODN** 1554.1

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
1	55432	PBW			3	PBW		ILMMSW..3P	6085	12/27/2008	6/24/2008
2	55433	LCSW			3	LCSW		ILMMSW..3P	6085	12/27/2008	6/24/2008
3	8171038001	MH25E8			3	SAMPLE	8171038001-A	I54MSW..3P	5936	12/15/2008	6/24/2008
4	8171038002	MH25E9			3	SAMPLE	8171038002-A	I54MSW..3P	5936	12/15/2008	6/24/2008
5	8171038003	MH25F0			3	SAMPLE	8171038003-A	I54MSW..3P	5936	12/15/2008	6/24/2008

GENERAL

Redigestion? (Y/N): N Original Bk/Pg: NA

DCL Set ID	Sample ID / TCLP Write-up Bk/Pg	Analytes	Account
8171038	MH25E8,9,FO	ICPMS	8201

6/30/08 RKA

Prep Group # EMS 1252
Hood: ICPMS#33
Micro: NA
SDG: MH25E8
Case: 37402
Sample Description (Bk/Pg): water 339/124

QC INFORMATION (All QC's prepared using same method as samples)

DCL QC ID	Matrix source	Spike source ID (include Bk/Pg)	Pipet ID	Spike Vol
PBW	ASTM Type II H_2O	NA	NA	NA
LCSW	↓	IP-PS-07-023 (2261/91)	2163121	1mL

6/30/08 RKA

QC's spiked by: RKA Witness: NA

METHOD INFORMATION

Method reagents/Lots ID's:
1mL of 1:1 HNO_3 Lot#1207010 MS-08-154 (4184/37)
pipette: 2163121
0.5mL of 1:1 HCl Lot#4207040 prepared as needed
pipette: 279094

Balance ID: NA
Samples measured using: 50mL polypropylene tubes
Digestion glassware type: ↓
Final volume container type: ↓
Amount of sample used: 50mL
Final sample volume: ↓

Explanations below -- if redigesting, WHY, Modified method? (Y/N) Y WHAT/WHY: No MD/MS prepared due to lack of sample volume.

6/30/08 0700 [signature] 6/30/08 RKA Retrieved samples from 2-33-1 and allowed them to come to room temperature. Labelled and rinsed digestion tubes and watchglasses. Transferred 50mL aliquots of each sample to digestion tubes. Added 1mL of 1:1 HNO_3 and 0.5mL of 1:1 HCl to each sample. Spiked LCSW as per above. Covered samples with watchglasses and placed them on the hotblock at 10:15. Temperature was checked at 11:15 with thermometer ICP/MS#2 to be 94.1°C. Samples were reduced to ~20mL, removed, and allowed to cool. Rinsed screwcaps. Watchglasses were replaced with screwcaps and samples were put back on the hotblock at 14:45 to reflux. Samples were removed at 15:15 and allowed to cool overnight. 6/30/08 1600 [signature] 7/1/08 07:30 [signature] Samples were diluted to 50mL with ASTM Type II H_2O, shaken, and delivered for analysis. 7/1/08 0900 [signature]

METHOD/DCL SOP USED (Include revision): ILMO5.4 HW3 CONTINUED ON PAGE #: 124

Preparer Signature/Date: [signature] 7/1/08
Reviewer Signature/Date: [signature] 07/01/08

Project No. NA

TITLE DataChem Laboratories - ICP-MS Solutions Logbook

Book No. 4184

From Page No. 36 Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Book/Page)	Expiration Date	Recipe Page	Acid Lots	Init.	Comments
06/25/08	MS-08-153	5.4 CRI	IP-PS-08-041 (2261/98)	06/26/08	2	HNO_3-1207120	KB	NA
06/25/08	MS-08-154	1:1 HNO_3	NA	12/25/08	2	HNO_3-1207120	KB	NA
06/25/08	MS-08-155	1:4 HCl	NA	12/25/08	2	HCl-4207040	KB	NA
06/26/08	MS-08-156	5.4 CRI Rinse	IP-PS-08-041 (2261/98)	06/27/08	2	HNO_3-1207120	KE	NA
↓	MS-08-157	2%/0.05%	NA	12/26/08	1	HNO_3-1207120 HCl-4207040	KE	NA
	MS-08-158	VARIONE Rinse	IP-PS-08-07-115 (2261/94) 05/01/08	12/26/08	1	HNO_3-1207120	KE	NA
06/26/08	MS-08-159	2%/0.05%	NA	12/26/08	1	HNO_3-1207120 HCl-4207040	KB	NA
06/27/08	MS-08-160	SO_4 Urine	UriSub Lot # U50820042	12/27/08	2	HNO_3-1207120	KB	NA
07/01/08	MS-08-161	1:1 HNO_3	NA	01/01/09	2	HNO_3-1207120	KB	NA
07/01/08	MS-08-162	VarIS	IP-PS-08-023 (2261/97)	01/01/09	1	HNO_3-1207120	KB	NA
07/01/08	MS-08-163	5.4 CRI	IP-PS-08-041 (2261/98)	07/02/08	2	HNO_3-1207120	KB	NA

To Page No.

Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

Project No. N/A

TITLE Data Chem Laboratories - Primary Standards Logbook

Book No. 2261

From Page No. 90

DCL Solution #	Analytes	Concentration	Vendor	Lot #	Date Rec'd.	Date Opened	Date Expires	Init.
(LLPP-SPL-1) IP-PS-07-013/14	Al, Ba / Fe	2,000 µg/mL / 1,000 µg/mL	Inorganic Ventures	Z-MEB194075	03/07/07	03/07/07	04/01/08	KE
7/15 Rec 03/07/07	Co, Mn, Ni, V, Zn	500 µg/mL						
	Cu / Cr3	250 µg/mL / 200 µg/mL						
	Ag, Be	50 µg/mL						
(LLPP-SPL-5) IP-PS-07-015	Sb / Cd, Se, Tl	100 µg/mL / 50 µg/mL	Inorganic Ventures	Z-LLCP180071	03/07/07	03/07/07	04/01/08	KE
7/16	As / Pb	40 µg/mL / 20 µg/mL						
CRI 5.4 IP-PS-07-016	Ba / Se, V	10 µg/mL / 5 µg/mL	Inorganic Ventures	A2-MEB194150	03/28/07	03/29/07	05/01/08	KB
	Cr3, Cu, Sb, Zn	2 µg/mL						
	Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl	1 µg/mL						
ISS IP-PS-07-017	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
ISO IP-PS-07-018	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
IP-PS-07-019	Al, Ca / As, Fe, Pb, Mg, Ni, Se, Na	1000 µg/mL / 500 µg/mL	CPI	07C089	04/01/07	04/18/07	09/08/08	KE
	Ba, Be, Cr, Co, Li, Mn, Mo, Sr, Ti, V, Y, Zn, Zr, Cu	200 µg/mL						
		200 µg/mL						
6010 IW IP-PS-07-020	K, Na / Fe, P	2000 µg/mL / 200 µg/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
	Ba, Ca, Pb, Se, Tl, Al, As, Mg, B	400 µg/mL						
	Ag, Be, Cd, Co, Cr, Cu, Mn, Ni, V, Zn, Sr, Li	100 µg/mL						
IP-PS-07-021	Sb, Mo, Sn, Ti, Si	400 µg/mL, 100 µg/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
IP-PS-07-022	ICV-1	See facing page	EPA/QATS	ICV-1 (1201)	04/18/07		NA	KB
IP-PS-07-023	See facing page							
IP-PS-07-024								
IP-PS-07-025	ICSA (ICP-MS)	See facing page	EPA/QATS	ICSA (0803)	04/18/07	09/23/07 01/17/08	NA	KB
IP-PS-07-026	See facing page							
IP-PS-07-027								
IP-PS-07-028								
IP-PS-07-029								
IP-PS-07-030								
IP-PS-07-031	ICSB (ICP-MS)					09/23/07		
IP-PS-07-032	See facing page	See facing page	EPA/QATS	ICSB (0803)	04/18/07		NA	KB
IP-PS-07-033								
IP-PS-07-034	As	10,000 µg/mL	CPI	07B146	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-035	Ba	10,000 µg/mL	CPI	07C169	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-036	Be	10,000 µg/mL	CPI	07A145	04/01/07	04/20/07	~~09/10~~ 04/30/08	KE

To Page No. 92

Witnessed & Understood by me, Kristie Bates — Date 04/20/07

Invented by — Date

Recorded by — Date 04/20/07

Facing Page 91

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV-1 (1201):		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2482	496
Sb	992	198
As	996	199
Ba	502	100
Be	493	99
Cd	494	99
Ca	10180	2036
Cr	490	98
Co	496	99
Cu	490	98
Fe	5107	1021
Pb	996	199
Mg	6003	1201
Mn	495	99
Ni	492	98
K	10008	2002
Se	1005	201
Ag	495	99
Na	10039	2008
Tl	1027	205
V	501	100
Zn	1000	200

KB 4/19/07

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP and AA instruments. These solutions may also be used as aqueous Laboratory Control Solutions.

The values for each element in the ICVs are listed below in µg/L (ppb) for the solutions that result after the concentrates have been diluted according to the following instructions:

1. ICV-1 (1201) — For ICP-AES use, dilute the ICV-1 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For ICP-MS use, dilute the ICV-1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

2. ICV-2 (0601) -- For furnace AA use, dilute the ICV-2 concentrate 20-fold with 2% (v/v) nitric acid; pipet 5 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

3. ICV-3 (0500) -- For ICP use, dilute the ICV-3 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For furnace AA use, dilute the ICV-3 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

KB 4/19/07

4. ICV-4 (0499) -- For the furnace AA determination of lead and thallium, dilute the ICV-4 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For the furnace AA determination of silver and cadmium, dilute the ICV-4 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

5. ICV-5 (1104) -- For the cold vapor analysis of mercury by AA, dilute the ICV-5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV-5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

6. ICV-6 (0400) -- For the analysis of cyanide, dilute the ICV-6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE FOR ICP-MS
PART A (0803) WITH PART B (0803)

Part A (0803), Inferferents: Pipet 10 mL of the Part A solution into a 100-mL volumetric flask and dilute to volume with 1% v/v HNO3. 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 HNO3. 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

KB 04/19/07

[ ] 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.

Project No. N/A

TITLE DATACHEM LABORATORIES - ANALYSIS WRITE-UPS LOGBOOK

Book No. 4706

From Page No. X

Results File: MS208090

MOD# 1554.1

Workorder ID	Sample #'s	Analytes	Prep Write-up(Bk./Pg.)	Prep Date/Time	Analysis HBN #	Account #
8171020	MH25D9	44Ca/Water	ISP 339/0121, 122	06/30/08 07:00	17636	8201
8171038	MH25E8, E9, F0	#1/Water	ISP 339/0123, 124	06/30/08 07:00	17647	8201
8171039	MH26C8, D0, D1	#1/Water	ISP 339/0125, 126	06/30/08 07:00	17648	8201

#1 = 9Be, 24Mg, 27Al, 44Ca, 51V, 52Cr, 55Mn, 57Fe, 59Co, 60Ni, 63Cu, 66Zn, 75As, 82Se, 107Ag, 111Cd, 121Sb, 137Ba, 205Tl, 208Pb

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
Calibration Std S0/ICB/CCB(1% HNO_3)	MS-08-169	4184/37
Calibration Std (S2)	25X of EI-SS-08-140	4721/40
Calibration Std (S5)	10X of EI-SS-08-140	4721/40
Calibration Std (S10)	5X of EI-SS-08-140	4721/40
Calibration Std (S50)	EI-SS-08-140	4721/40
Calibration Std (S200)	EI-SS-08-141	4721/41
Calibration Std (S500)	EI-SS-08-142	4721/42
Calibration Std (S1000)	EI-SS-08-143	4721/43
Calibration Std (S1500)	EI-SS-08-148	4721/48
Calibration Std (S2000)	EI-SS-08-149	4721/49
ICV	EI-SS-08-144	4721/44
CRI	MS-08-189	4184/38
ICSA	EI-SS-08-145	4721/45
ICSAB	EI-SS-08-146	4721/46
CCV	EI-SS-08-151	4721/51
Internal Standards	MS-08-180	4184/37
Rinse	MS-08-188	4184/38

SDG: MH25C5, MH25E8, MH26C8
CASE: 37402
Prep Method: HW3
Analysis Method: ILM05.4
Analysis Date: 07/10/08
Instrument ID: ICPM02

Scanning Mode: Peak Jumping
Sweeps: 40
Channels per Mass: 1
Acquisition Duration: 33467
Channel Spacing: 0.02
Replicates: 5

Instrument Parameters:

Major		Minor		Global	
Extraction:	-145	Lens 2:	-44.7	Standard Resolution:	155
Lens 1:	2.9	Lens 3:	-142.7	High Resolution:	115
Focus:	24.1	Forward Power:	1404	Analogue Detector:	1549
D1:	-34.5	Horizontal:	100	PC Detector:	3020
Pole Bias:	2.5	Vertical:	475		
Hexapole Bias:	4.5	D2:	-160		
Nebuliser:	0.74	DA:	-80.0		
Sample Depth:	105	Cool:	13.0		
		Auxiliary:	0.80		

Comments: S2 was prepared by taking 9.6 mL of MS-08-169 (4184/37) and adding 0.4 mL of EI-SS-08-140 (4721/40) and mixing in a 14 mL Falcon tube.
S5 was prepared by taking 9.0 mL of MS-08-169 (4184/37) and adding 1.0 mL of EI-SS-08-140 (4721/40) and mixing in a 14 mL Falcon tube.
S10 was prepared by taking 8.0 mL of MS-08-169 (4184/37) and adding 2.0 mL of EI-SS-08-140 (4721/40) and mixing in a 14 mL Falcon tube.
The S2, S5 and S10 were all prepared just prior to analysis and expire at the end of the next day.

A Cross Calibration was performed using solution MS-08-184 (4184/37), before the performance report.
A Performance report was done to tune the instrument using "ILM05.3" and solution MS-08-185 (4184/37), before calibration.

A Serial Diluton was done by combining 4 mL of MS-08-169 (4184/37) and 1 mL of MH25C5 in a 14 mL Falcon Tube.
No Post Digestion Spike was required.

Sample MH25D9 required a 2x dilutions for 44Ca, due to results above the linear range. Refer to Run # MS208090 for the diluted result.
Sample MH25F0 required a 2x dilution for 66Zn, due to results above the linear range.
The 2x dilutions was done by combining 3 mL of sample and 3 mL of MS-08-169 (4184/37) in a 14 mL Falcon Tube.

CCV failed for 27Al
CCB failed for 57Fe

NE 07/14/08

NE 07/14/08

To Page No. X

Witnessed & Understood by me, Kristie Betti — Date 07/14/08

Invented by: — Date

Recorded by: — Date 07/14/08

Project No. N/A

TITLE Datachem Laboratories - ICPMO2 Instrument Run Logbook Book No. 4183

From Page No. 17

Date	Time On	Time Off	Total Time	Method	Matrix	Acct #	Set ID's / Comments			# of Samples	Run #	Init.
07/07/08	16:11	21:56	345 MIN	ILM05.4	WATER	8201	8171027	MOD 1554.1	MH2697	20	MS208082	KE
07/07/08	23:21	04:23	302 MIN	ILM05.4	WATER	8201	8171001	MOD 1554.1	MH2599	19	MS208083	KE
07/08/08	09:52	11:58	126 MIN	ILM05.4	WATER	8201	8171001	Ca, Zn DILUTIONS	MH2599	3	MS208084	KE
07/08/08	15:55	20:55	300 MIN	ILM05.4	WATER	8201	8172023, 8172024		MA2GW6	17	MS208085	KE
07/08/08	21:20	01:23	243 MIN	ILM05.4	WATER	8201	8172020, 8172021, 8176116		MA2GY0	15	MS208086	KE
07/09/08	15:07	17:06	119 MIN	ILM05.4	WATER	8201	Ca + Mn DILUTIONS			6	MS208087	KE
07/09/08	17:46	22:11	265 MIN	ILM05.4	WATER	8201	8176115		MA2GT7	18	MS208088	KE
07/09/08	22:57	04:52	355 MIN	ILM05.4	WATER	8201	8171020		MH2565	18	MS208089	KE
07/10/08	12:40	16:56	256 MIN	ILM05.4	Water	8201	8171038, 8171039, 8171020		MH2568, MH2568, MH2565	7	MS208090	KB

To Page No.

Witnessed & Understood by me, Date

Invented by Date

Recorded by

Project No. NA

TITLE DataChem Laboratories - ICP-MS solutions Logbook

Book No. 4184

From Page No. 36

Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Book/Page)	Expiration Date	Recipe Page	Acid Lot #	Init.	Comments
06/25/08	MS-08-153	5.4 CRI	IP-PS-08-041 (2261/98)	06/26/08	2	HNO_3-1207120	KB	NA
06/25/08	MS-08-154	1:1 HNO_3	NA	12/25/08	2	HNO_3-1207120	KB	NA
06/25/08	MS-08-155	1:4 HCl	NA	12/25/08	2	HCl-4207040	KB	NA
06/26/08	MS-08-156	5.4 CRI	IP-PS-08-041 (2261/98)	06/27/08	2	HNO_3-1207120	KE	NA
	MS-08-157	Rinse 2%/0.05%	NA	12/26/08	1	HNO_3-1207120 HCl-4207040	KE	NA
↓	MS-08-158	VARTUNE	IP-PS-08-07-115 (2261/94) 6/26/08	12/26/08	1	HNO_3-1207120	KE	NA
06/26/08	MS-08-159	Rinse 2%/0.05%	NA	12/26/08	1	HNO_3-1207120 HCl-4207040	KB	NA
06/27/08	MS-08-160	50 urine	Ur. Sub Lot # U50820042	12/27/08	2	HNO_3-1207120	KB	NA
07/01/08	MS-08-161	1% HNO_3	NA	01/01/09	2	HNO_3-1207120	KB	NA
07/01/08	MS-08-162	Var IS	IP-PS-08-023 (2261/97)	01/01/09	1	HNO_3-1207120	KB	NA
07/01/08	MS-08-163	5.4 CRI	IP-PS-08-041 (2261/98)	07/02/08	2	HNO_3-1207120	KB	NA
07/01/08	MS-08-164	Rinse 2%/0.05%	NA	01/01/09	1	HNO_3-1207120 HCl-4207040	KE	NA
07/01/08	MS-08-165	X-CAL	IP-PS-07-107 (2261/94)	01/01/09	2	HNO_3-1207120	KE	USED 0.75mL FOR TEST
07/01/08	MS-08-166	VARTUNE	IP-PS-07-115 (2261/94)	01/01/09	1	HNO_3-1207120	KE	NA
07/02/08	MS-08-167	Var Tune	IP-PS-07-115 (2261/94)	(01/02/09)	1	HNO_3-1207120	KB	NA
07/02/08	MS-08-168	Var Tune	IP-PS-07-115 (2261/94)	01/02/09	1	HNO_3-1207120	KB	NA
07/02/08	MS-08-169	1% HNO_3	NA	01/02/09	2	HNO_3-1207120	KE	NA
07/02/08	MS-08-170	5.4 CRI	IP-PS-08-041 (2261/98)	07/03/08	2	HNO_3-1207120	KE	NA
07/03/08	MS-08-171	5.4 CRI	IP-PS-08-041 (2261/98)	07/04/08	2	HNO_3-1207120	KB	NA
07/04/08	MS-08-172	5.4 CRI	IP-PS-08-041 (2261/98)	07/05/08	2	HNO_3-1207120	KB	NA
07/07/08	MS-08-173	Var Tune	IP-PS-07-115 (2261/94)	01/07/09	1	HNO_3-1207120	KB	NA
07/07/08	MS-08-174	Rinse 2%/0.05%	NA	01/07/09	1	HNO_3-1207120 HCl-4207040	KB	NA
07/07/08	MS-08-175	Rinse 2%/0.05%	NA	01/07/09	1	HNO_3-1207120 HCl-4207040	KB	NA
07/07/08	MS-08-176	Var IS	IP-PS-08-024 (2261/97)	01/07/09	1	HNO_3-1207120	KB	NA
07/07/08	MS-08-177	5.4 CRI	IP-PS-08-041 (2261/98)	07/08/08	2	HNO_3-1207120	KB	NA
07/08/08	MS-08-178	Var Tune	IP-PS-07-115 (2261/94)	01/08/08	1	HNO_3-1207120	KB	NA
07/08/08	MS-08-179	Rinse 2%/0.05%	NA	01/08/08	1	HNO_3-1207120 HCl-4207040	KB	NA
07/08/08	MS-08-180	Var IS	IP-PS-08-024 (2261/97)	01/08/08	1	HNO_3-1208030	KB	NA
07/08/08	MS-08-181	5.4 CRI	IP-PS-08-041 (2261/98)	07/09/08	2	HNO_3-1208030	KE	NA
07/09/08	MS-08-182	Var Tune	IP-PS-07-115 (2261/94)	01/09/08	1	HNO_3-1207120	KB	NA
07/09/08	MS-08-183	Var Tune	IP-PS-07-115 (2261/94)	01/09/08	1	HNO_3-1207120	KB	NA
07/09/08	MS-08-184	X-CAL	IP-PS-07-107 (2261/94)	01/09/09	2	HNO_3-1207120	KE	USED 0.75mL
07/09/08	MS-08-185	VAR TUNE	IP-PS-07-115 (2261/94)	01/09/09	1	HNO_3-1207120	KE	NA
07/09/08	MS-08-186	5.4 CRI	IP-PS-08-041 (2261/98)	07/10/09	2	HNO_3-1207120	KE	NA
07/09/08	MS-08-187	6020 Tune	IP-PS-08-116 (2261/94) 12/24/08	01/09/09	1	HNO_3-1208030	KB	NA

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Witnessed & Understood by me, | Date | Invented by | Date 07/09/08

Recorded by Kristie Bettin

Project No. NA

TITLE DataChem Laboratories - ICP-ms Solutions Logbook

Book No. 4184

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Date	ICP-ms Solution #	Solution Type	Primary Solution ID # (Book/Page)	Expiration Date	Recipe Page	Acid Lots	Init.	Comments
07/09/08	MS-08-188	Rinse 2%/0.05%	NA	01/09/09	1	HNO_3 - 1208030 HCl - 4207040	KB	NA
07/10/08	MS-08-189	5.4 CRI	IP-PS-08-041 (2261/98)	07/11/08	2	HNO_3 - 1208030	KB	NA
07/10/08	MS-08-190	Rinse 2%/0.05%	NA	01/10/09	1	HNO_3 - 1208030 HCl - 4207040	KB	NA
07/11/08	MS-08-191	5.4 CRI	IP-PS-08-041 (2261/98)	07/12/08	2	HNO_3 - 1208030	KB	NA
07/11/08	MS-08-192	1% HNO_3	NA	01/11/09	2	HNO_3 - 1208030	KB	NA

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Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

Project No. N/A

TITLE DATACHEM LABORATORIES - ICP-MS SOLUTIONS LOGBOOK. Book No. 4184

From Page No. X

RECIPES.

5.3CRI = USE "CLP-MS-CRQL-2" PRIMARY CONTAINING 10 ug/mL Ba; 5 ug/mL Se; 2 ug/mL Sb, Cr, Cu, Zn; 1 ug/mL Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V. SPIKE 0.05 mL TO A 50 mL TEFLON CLASS A FLASK, CONTAINING SOME ASTM TYPE II H_2O WITH 0.5 mL OF HNO_3. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE FLASK.
FINAL TARGETS: 10 ug/L Ba, 5 ug/L Se; 2 ug/L Sb, Cr, Cu, Zn; 1 ug/L Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V in 1% HNO_3

VARIAN TUNE = SPIKE 0.5 mL OF "VAR-TS-MS" PRIMARY CONTAINING 10 ug/mL Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.
FINAL TARGETS: 100 ug/L Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th in 1% HNO_3.

6020 TUNE = SPIKE 0.5 mL OF "6020TS" PRIMARY CONTAINING 10 ug/mL Co, In, Li, Tl AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.
FINAL TARGETS: 100 ug/L Co, In, Li, Tl in 1% HNO_3.

TUNE A = SPIKE 0.05 ~~0.5~~ mL OF "TUNE A" PRIMARY, CONTAINING 10 ug/mL OF Li, Be, Co, Ni, In, Ba, Ce, Pb, U + 100 ug/mL OF As, Se, AND 0.5 mL OF HNO_3 TO A 50 mL CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE. 4/13/04
FINAL TARGETS: 10 ug/L Li, Be, Co, Ni, In, Ba, Be, Ce, Pb, U; 100 ug/L As, Se.

TUNE B = SPIKE 0.5 mL OF "TUNE B" PRIMARY, CONTAINING 100 ug/mL Be; 50 ug/mL Li; 25 ug/mL Mg, Se; 20 ug/mL Co; 10 ug/mL Y, In, Ce, Tl; 5 ug/mL Tb, U, AND 0.5 mL OF HNO_3 TO A 50 mL FLASK. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 1000 ug/L Be; 500 ug/L Li; 250 ug/L Mg, Se; 200 ug/L Co; 100 ug/L Y, In, Ce, Tl; 50 ug/L Tb, U in 1% HNO_3.

VAR IS = SPIKE 40 mL OF "6020ISS" PRIMARY, CONTAINING 10 ug/mL Bi, Ho, In, ^6Li; Rh, Sc, Tb, Y AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 200 ug/L Bi, Ho, In, ^6Li, Rh, Sc, Tb, Y in 1% HNO_3.

THERMO IS = SPIKE 4 mL OF "THERMO IS MIX" PRIMARY, CONTAINING 100 mg/L ^6Li, Sc; 20 mg/L Ga, Y, In, Tb, Bi AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOM ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 200 ug/L ^6Li, Sc; 40 ug/L Ga, Y, In, Tb, Bi in 1% HNO_3.

2%/0.05% = ADD 40 ~~20~~ mL OF HNO_3 AND 1 mL OF HCl OR 2 mL OF 1:1 HCl TO A 2L CONTAINER. BRING TO VOLUME, SEAL + SHAKE. 4/13/04
RINSE FINAL TARGETS: 2% HNO_3/0.05% HCl

5%/1% = ADD 100 mL OF HNO_3 AND 20 mL OF HCl TO A 2L CONTAINER. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 5% HNO_3/1% HCl.

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Witnessed & Understood by me,	Date	Invented by	Date
Kristie Bettini	01/24/05	Recorded by [signature]	01/24/05

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RECIPES

THERMO 6020 ICSA = ADD 1mL OF ICSA PRIMARY TO 9mL OF 1% HNO_3 + MIX.

THERMO 6020 ICSAB = ADD 1mL OF ICSA PRIMARY, 0.1mL OF ICSAB PRIMARY TO 8.9 mL OF 1% HNO_3 + MIX.

X-CAL = SPIKE 1.25 mL OF "X-CAL" PRIMARY CONSISTING OF Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Pb, Se, Sr, Tl, U, V, Zn AT 10 mg/L AND 0.5 mL OF HNO_3 TO A 50mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME, STOPPER + SHAKE. ALL MASSES AT 250 mg/L AT FINAL.

1% HNO_3 = ADD 10 mL OF HNO_3 TO A 1L FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. SEAL + SHAKE. USED FOR δO, ICB, CCB + DILUTIONS.

1:4 HCl = Add 200 mL HCl to 1 L container with some ASTM Type II H_2O. Bring to volume with more ASTM Type II H_2O. Seal & Shake. Used for sample preparation, soils.

1:1 HCl = Add 500 mL ASTM Type II H_2O to 1 L container. Add 500 mL Hcl to container, cap and mix by shaking. Used for sample preparation.

1:1 HNO_3 = Add 500 mL ASTM Type II H_2O to 1 L container. Add 500 mL HNO_3 to container, seal and shake to mix. Used for sample preparation.

10/21/06
2% HNO_3 with Au Add 20 mL of HNO_3 to 1 L container with some ASTM Type II H_2O in it. Add 1 mL of 1:1 HCl and 10 mL of 100 µg/mL Au. Bring to 1 L volume, cap & shake. Use for Hg analysis

δO-Urine = To a 500 mL volumetric flask containing ~ 250 mL of ASTM Type II Water add 50 mL of UriSub and 5 mL of concentrated nitric acid. Dilute to volume with ASTM Type II water, stopper and mix, transfer to teflon bottles for storage.

5.4 CRI: Use "CLP-MS-CRQL-3" primary containing 10 µg/mL Ba; 5 µg/mL Se, V; 2 µg/mL Cr3, Cu, Sb, Zn; 1 µg/mL Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl. Spike 0.05 mL to a 50 mL Teflon class A flask, containing some ASTM Type II H_2O with 0.5mL of HNO_3. Bring to volume with ASTM Type II H_2O, Seal & shake. Final Targets: 10 µg/L B; 5 µg/L Se, V; 2 µg/L Cr3, Cu, Sb, Zn; 1 µg/L Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl.

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Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

Project No. N/A

TITLE Datachem Laboratories - Secondary Standards Log book

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-140	ILM05.4 S50

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Sb	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
As	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Ba	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Be	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Cd	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Ca	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Cr	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Co	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Cu	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Fe	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Pb	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Mg	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Mn	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Ni	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
K	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Se	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Ag	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Na	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Tl	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
V	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
Zn	IP-PS-07-150 (2261/96)	20 µg/mL	0.5 mL	50 µg/L
			FINAL VOL.:	200 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Verification data found in File#: IB 07/02/08

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

Comments: This solution is also used to make the S2, S5 and S10 Calibration Standards.

Solution Replaces: N/A

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Witnessed & Understood by me,	Date	Invented by:	Date
[signature]	07/02/08	Recorded by: [signature]	07/02/08

Project No. N/A

TITLE DataChem Laboratories-Secondary Standards Logbook

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-141	ILM05.4 S200

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Sb	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
As	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Ba	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Be	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Cd	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Ca	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Cr	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Co	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Cu	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Fe	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Pb	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Mg	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Mn	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Ni	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
K	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Se	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Ag	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Na	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Tl	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
V	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
Zn	IP-PS-07-150 (2261/96)	20 µg/mL	1 mL	200 µg/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Witnessed & Understood by me,	Date	Invented by:	Date
[signature]	07/01/08	Recorded by: Kristie Peterson	07/02/08

Project No. NA

TITLE DataChem Laboratories-Secondary Standards Log book

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-142	ILM05.4 S500

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Sb	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
As	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Ba	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Be	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Cd	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Ca	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Cr	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Co	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Cu	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Fe	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Pb	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Mg	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Mn	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Ni	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
K	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Se	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Ag	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Na	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Tl	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
V	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
Zn	IP-PS-07-150 (2261/96)	20 µg/mL	2.5 mL	500 µg/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: [(FINAL VOL.) * (FINAL VOL. CONC.)] / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Witnessed & Understood by me,	Date	Invented by:	Date
[signature]	07/02/08	Recorded by: [signature]	07/02/08

Project No. 4721

TITLE DataChem Laboratories - Secondary Standards Logbook

Book No. 4721

From Page No. x

ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-143	ILM05.4 S1000

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Sb	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
As	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Ba	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Be	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Cd	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Ca	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Cr	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Co	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Cu	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Fe	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Pb	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Mg	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Mn	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Ni	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
K	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Se	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Ag	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Na	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Tl	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
V	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
Zn	IP-PS-07-150 (2261/96)	20 µg/mL	5 mL	1000 µg/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Witnessed & Understood by me,	Date	Invented by:	Date
[signature]	07/02/08	Recorded by: Kristie Bates	07/02/08

Project No. NA

TITLE DataChem Laboratories - secondary standards Logbook

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-148	ILM05.4 S1500

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al				
Sb				
As		KB 7/2/08		
Ba				
Be				
Cd				
Ca	IP-PS-07-055 (2261/92)	10,000 µg/mL	0.015 mL	1500 µg/L
Cr				
Co		KB 7/2/08		
Cu				
Fe	IP-PS-07-060 (2261/92)	10,000 µg/mL	0.015 mL	1500 µg/L
Pb		KB 7/2/08		
Mg	IP-PS-07-063 (2261/92)	10,000 µg/mL	0.015 mL	1500 µg/L
Mn				
Ni				
K				
Se				
Ag		KB 7/2/08		
Na				
Tl				
V				
Zn				

FINAL VOL.: 100 mL

Date Made: 07/02/2008
Expiration date: 07/16/2008
Date verified:
Verified by:
Comments: None.
Solution Replaces: N/A

Verification data found in File#:
Verification instrument: ICPM02
Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.
VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.
CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

To Page No. x

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[signature]	07/02/08	Recorded by: [signature]	07/02/08

Project No. na

TITLE DataChem Laboratories Secondary Standards Logbook

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-149	ILM05.4 S2000

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al				
Sb				
As				
Ba		KB 7/2/08		
Be				
Cd				
Ca	IP-PS-07-055 (2261/92)	10,000 µg/mL	0.020 mL	2000 µg/L
Cr				
Co		KB 7/2/08		
Cu				
Fe	IP-PS-07-060 (2261/92)	10,000 µg/mL	0.020 mL	2000 µg/L
Pb		KB 7/2/08		
Mg	IP-PS-07-063 (2261/92)	10,000 µg/mL	0.020 mL	2000 µg/L
Mn				
Ni				
K				
Se				
Ag				
Na		KB 7/2/08		
Tl				
V				
Zn				

FINAL VOL.:	100 mL

Date Made: 07/02/2008

Expiration date: 07/16/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

To Page No. 1

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Project No. N/A

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Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-144	ILM05.4 ICV

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-023 (2261/91)	24820 µg/L	2 mL	496 ug/L
Sb	IP-PS-07-023 (2261/91)	9920 µg/L	2 mL	198 ug/L
As	IP-PS-07-023 (2261/91)	9960 µg/L	2 mL	199 ug/L
Ba	IP-PS-07-023 (2261/91)	5020 µg/L	2 mL	100 ug/L
Be	IP-PS-07-023 (2261/91)	4930 µg/L	2 mL	99 ug/L
Cd	IP-PS-07-023 (2261/91)	4940 µg/L	2 mL	99 ug/L
Ca	IP-PS-07-023 (2261/91)	101800 µg/L	2 mL	2036 ug/L
Cr	IP-PS-07-023 (2261/91)	4900 µg/L	2 mL	98 ug/L
Co	IP-PS-07-023 (2261/91)	4960 µg/L	2 mL	99 ug/L
Cu	IP-PS-07-023 (2261/91)	4900 µg/L	2 mL	98 ug/L
Fe	IP-PS-07-023 (2261/91)	51070 µg/L	2 mL	1021 ug/L
Pb	IP-PS-07-023 (2261/91)	9960 µg/L	2 mL	199 ug/L
Mg	IP-PS-07-023 (2261/91)	60030 µg/L	2 mL	1201 ug/L
Mn	IP-PS-07-023 (2261/91)	4950 µg/L	2 mL	99 ug/L
Ni	IP-PS-07-023 (2261/91)	4920 µg/L	2 mL	98 ug/L
K	IP-PS-07-023 (2261/91)	100080 µg/L	2 mL	2002 ug/L
Se	IP-PS-07-023 (2261/91)	10050 µg/L	2 mL	201 ug/L
Ag	IP-PS-07-023 (2261/91)	4950 µg/L	2 mL	99 ug/L
Na	IP-PS-07-023 (2261/91)	100390 µg/L	2 mL	2008 ug/L
Tl	IP-PS-07-023 (2261/91)	10270 µg/L	2 mL	205 ug/L
V	IP-PS-07-023 (2261/91)	5010 µg/L	2 mL	100 ug/L
Zn	IP-PS-07-023 (2261/91)	10000 µg/L	2 mL	200 ug/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

ICV-1 (1201)

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Project No. 4721

TITLE DataChem Laboratories - Secondary standards Logbook

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-145	ILM05.4 ICSA

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
Ca	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
Fe	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
Mg	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
K	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
Na	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100,000 ug/L
Sb	IP-PS-07-027 (2261/91)	15 ug/L	10 mL	1.5 ug/L
As	IP-PS-07-027 (2261/91)	1 ug/L	10 mL	0.1 ug/L
Ba	IP-PS-07-027 (2261/91)	12 ug/L	10 mL	1.2 ug/L
Cd	IP-PS-07-027 (2261/91)	7 ug/L	10 mL	0.7 ug/L
Cr	IP-PS-07-027 (2261/91)	21 ug/L	10 mL	21 ug/L
Co	IP-PS-07-027 (2261/91)	10 ug/L	10 mL	1 ug/L
Cu	IP-PS-07-027 (2261/91)	80 ug/L	10 mL	8 ug/L
Pb	IP-PS-07-027 (2261/91)	40 ug/L	10 mL	4 ug/L
Mn	IP-PS-07-027 (2261/91)	70 ug/L	10 mL	7 ug/L
Ni	IP-PS-07-027 (2261/91)	60 ug/L	10 mL	6 ug/L
Se	IP-PS-07-027 (2261/91)	3 ug/L	10 mL	0.3 ug/L
V	IP-PS-07-027 (2261/91)	5 ug/L	10 mL	0.5 ug/L
Zn	IP-PS-07-027 (2261/91)	110 ug/L	10 mL	11 ug/L
Ti	IP-PS-07-027 (2261/91)	20 ug/mL	10 mL	2,000 ug/L
Mo	IP-PS-07-027 (2261/91)	20 ug/mL	10 mL	2,000 ug/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

ICS-MS (0803)

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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Project No. NA

TITLE DataChem Laboratories - Secondary Standards Logbook

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-146	ILM05.4 ICSAB

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
Ca	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
Fe	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
Mg	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
K	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
Na	IP-PS-07-027 (2261/91)	1,000 ug/mL	10 mL	100 mg/L
Sb	IP-PS-07-032 (2261/91)	220 ug/L	10 mL	22 ug/L
As	IP-PS-07-032 (2261/91)	190 ug/L	10 mL	19 ug/L
Ba	IP-PS-07-032 (2261/91)	220 ug/L	10 mL	22 ug/L
Be	IP-PS-07-032 (2261/91)	190 ug/L	10 mL	19 ug/L
Cd	IP-PS-07-032 (2261/91)	200 ug/L	10 mL	20 ug/L
Cr	IP-PS-07-032 (2261/91)	400 ug/L	10 mL	40 ug/L
Co	IP-PS-07-032 (2261/91)	200 ug/L	10 mL	20 ug/L
Cu	IP-PS-07-032 (2261/91)	250 ug/L	10 mL	25 ug/L
Pb	IP-PS-07-032 (2261/91)	250 ug/L	10 mL	25 ug/L
Mn	IP-PS-07-032 (2261/91)	270 ug/L	10 mL	27 ug/L
Ni	IP-PS-07-032 (2261/91)	240 ug/L	10 mL	24 ug/L
Se	IP-PS-07-032 (2261/91)	190 ug/L	10 mL	19 ug/L
Ag	IP-PS-07-032 (2261/91)	180 ug/L	10 mL	18 ug/L
Tl	IP-PS-07-032 (2261/91)	210 ug/L	10 mL	21 ug/L
V	IP-PS-07-032 (2261/91)	190 ug/L	10 mL	19 ug/L
Zn	IP-PS-07-032 (2261/91)	290 ug/L	10 mL	29 ug/L
Mo	IP-PS-07-032 (2261/91)	20 ug/mL	10 mL	2,000 ug/L
Ti	IP-PS-07-032 (2261/91)	20 ug/mL	10 mL	2,000 ug/L
			FINAL VOL.:	100 mL

Date Made: 07/01/2008

Expiration date: 07/15/2008

Date verified:

Verified by:

Comments: None.

Solution Replaces: N/A

Verification data found in File#:

Verification instrument: ICPM02

Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

ICS-MS (0803)

KB 07/02/08

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

To Page No. x

Witnessed & Understood by me,	Date	Invented by:	Date
[signature]	07/02/08	Recorded by: Kristie Bates	07/02/08

Project No. NA

TITLE DataChem Laboratories-secondary Standards Logbook

Book No. 4721

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ICP-MS SECONDARY SOLUTION

SOLUTION ID:	USED FOR:
EI-SS-08-151	ILM05.4 CCV

This format is used to make a secondary solution from a raw chemical or purchased solution only.

Analyte	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Sb	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
As	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Ba	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Be	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Cd	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Ca	IP-PS-08-021 (2261/97) IP-PS-07-104 (2261/94)	20 µg/mL 200 µg/mL	2.5 mL 0.75 mL	1000 µg/L
Cr	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Co	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Cu	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Fe	IP-PS-08-021 (2261/97) IP-PS-07-104 (2261/94)	20 µg/mL 200 µg/mL	2.5 mL 0.75 mL	1000 µg/L
Pb	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Mg	IP-PS-08-021 (2261/97) IP-PS-07-104 (2261/94)	20 µg/mL 200 µg/mL	2.5 mL 0.75 mL	1000 µg/L
Mn	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Ni	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
K	IP-PS-08-021 (2261/97) IP-PS-07-104 (2261/94)	20 µg/mL 200 µg/mL	2.5 mL 0.75 mL	1000 µg/L
Se	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Ag	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Na	IP-PS-08-021 (2261/97) IP-PS-07-104 (2261/94)	20 µg/mL 200 µg/mL	2.5 mL 0.75 mL	1000 µg/L
Tl	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
V	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
Zn	IP-PS-08-021 (2261/97)	20 µg/mL	2.5 mL	250 µg/L
			FINAL VOL.:	200 mL

Date Made: 07/08/2008
Expiration date: 07/22/2008
Date verified:
Verified by:
Comments: None.
Solution Replaces: N/A

Verification data found in File#: KB 07/08/08
Verification instrument: ICPM02
Matrix reagent type: 1% HNO_3 Fisher Lot 1207120

CALIBRATED MICROPIPETTORS, CLASS A PIPETTES AND VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

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[signature]	07/08/08	Recorded by: Kristie Butler	07/08/08

Project No. N14

TITLE DATA CHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE RECD.	DATE OPENED	DATE EXPIRES	INIT.
(CLP-SPK-1) IP-PS-07-013/14	Al, Ba / Fe	2,000 ug/mL / 1,000 ug/mL	INORGANIC VENTURES	Z-MEB194075	03/07/07	03/07/07	04/01/08	KE
775 KE03/07/07	Co, Mn, Ni, V, Zn	500 ug/mL						
	Cu / Cr3	250 ug/mL / 200 ug/mL						
	Ag, Be	50 ug/mL						
(CLP-SPK-3) IP-PS-07-015	Sb / Cd, Se, Tl	100 ug/mL / 50 ug/mL	INORGANIC VENTURES	Z-CLP18071	03/07/07	03/07/07	04/01/08	KE
776	As / Pb	40 ug/mL / 20 ug/mL						
CRI 5.4 IP-PS-07-016	Ba / Se, V	10 ug/mL / 5 ug/mL	Inorganic Ventures	A2-MEB194150	03/29/07	03/29/07	05/01/08	KB
	Cr3, Cu, Sb, Zn	2 ug/mL						
	Ag, As, Be, Cd, Co, Mn,	1 ug/mL						
	Ni, Pb, Tl							
ISS IP-PS-07-017	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
ISS IP-PS-07-018	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
IP-PS-07-019	Se Al, Ca / As, Fe, Pb, Mg, Ni, Na	1000 ug/mL / 500 ug/mL	CPI	07C089	04/01/07	04/18/07	09/08/08	KE
	Ba, Be, Cr, Co, Li, Mn, Mo, Sr,	200 ug/mL						
	Ti, V, Y, Zn, Zr, Cu	200 ug/mL						
600 ICV IP-PS-07-020	K, Na / Fe, P	2000 ug/mL / 200 ug/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
	Ba, Ca, Pb, Se, Tl, Al, As, Mg, B	400 ug/mL						
	Ag, Be, Cd, Co, Cr, Cu, Mn, Ni	100 ug/mL						
	V, Zn, Sr, Li							
IP-PS-07-021	Sb, Mo, Sn, Ti, Si	400 ug/mL / 100 ug/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
IP-PS-07-022	ICV-1	See facing page	EPA/QATS	ICV-1 (1201)	04/18/07		NA	KB
IP-PS-07-023	See facing Page							
IP-PS-07-024								
IP-PS-07-025	ICSA (ICP-MS)	See facing page	EPA/QATS	ICSA (0803)	04/18/07	09/23/07	NA	KB
IP-PS-07-026	See facing page					01/17/08		
IP-PS-07-027								
IP-PS-07-028								
IP-PS-07-029								
IP-PS-07-030								
IP-PS-07-031	ICSB (ICP-MS)					09/23/07		
IP-PS-07-032	See facing page	See facing page	EPA/QATS	ICSB (0803)	04/18/07		NA	KB
IP-PS-07-033								
IP-PS-07-034	As	10,000 ug/mL	CPI	07B146	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-035	Ba	10,000 ug/mL	CPI	07C169	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-036	Be	10,000 ug/mL	CPI	07A145	04/01/07	04/20/07	~~09/10~~ 04/20/08	KE

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Witnessed & Understood by me, Kristi Bitner

Date 04/20/07

Invented by

Recorded by

Date 04/20/07

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QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV-1 (1201)		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2482	496
Sb	992	198
As	996	199
Ba	502	100
Be	493	99
Cd	494	99
Ca	10180	2036
Cr	490	98
Co	496	99
Cu	490	98
Fe	5107	1021
Pb	996	199
Mg	6003	1201
Mn	495	99
Ni	492	98
K	10008	2002
Se	1005	201
Ag	495	99
Na	10039	2008
Tl	1027	205
V	501	100
Zn	1000	200

KB 4/19/07

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP and AA instruments. These solutions may also be used as aqueous Laboratory Control Solutions.

The values for each element in the ICVs are listed below in µg/L (ppb) for the solutions that result after the concentrates have been diluted according to the following instructions:

1. ICV-1 (1201) — For ICP-AES use, dilute the ICV-1 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For ICP-MS use, dilute the ICV-1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

2. ICV-2 (0601) -- For furnace AA use, dilute the ICV-2 concentrate 20-fold with 2% (v/v) nitric acid; pipet 5 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

3. ICV-3 (0500) -- For ICP use, dilute the ICV-3 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For furnace AA use, dilute the ICV-3 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

KB 4/19/07

4. ICV-4 (0499) -- For the furnace AA determination of lead and thallium, dilute the ICV-4 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For the furnace AA determination of silver and cadmium, dilute the ICV-4 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

5. ICV-5 (1104) -- For the cold vapor analysis of mercury by AA, dilute the ICV-5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV-5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

6. ICV-6 (0400) -- For the analysis of cyanide, dilute the ICV-6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE FOR ICP-MS
PART A (0803) WITH PART B (0803)

Part A (0803), Inferferents: Pipet 10 mL of the Part A solution into a 100-mL volumetric flask and dilute to volume with 1% v/v HNO3. 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 HNO3. 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

KB 04/19/07

[ ] 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.

Project No. N/A

TITLE DATACHEM LABORATORIES- PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES.	CONCENTRATION	VENDOR	LOT #	DATE RECD	DATE OPENED	DATE EXPIRES	INIT.
IP-PS-07-037	Cr	10,000 ug/mL	CPI	07A104	04/01/07	04/20/07	10/04/08	KE
IP-PS-07-038	Ni	10,000 ug/mL	CPI	07B236	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-039	Pt	10,000 ug/mL	CPI	06D247	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-040	Sb	10,000 ug/mL	CPI	06D234	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-041	Si	10,000 ug/mL	CPI	06J226	04/01/07	04/20/07	10/04/08	KE
IP-PS-07-042	Ti	10,000 ug/mL	CPI	06I044	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-043	W	1,000 ug/mL	CPI	06L114	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-044	Zr	1,000 ug/mL	CPI	07C203	04/01/07	04/20/07	09/30/08	KE
6020 std IP-PS-07-045	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20.00 ug/mL	Inorganic Ventures	Z-MEB194104	05/29/07	05/29/07	06/01/08	KB
ICP-ms CLP Spike IP-PS-07-046	Al, Ba/Ca, Mn, Ni, V, Zn Cu / Cr3 Sb/Ag, Be, Cd, Tl As/Pb/Se	200 ug/mL / 50 ug/mL 25 ug/mL / 20 ug/mL 10 ug/mL / 5 ug/mL 4 ug/mL / 2 ug/mL / 1 ug/mL	Inorganic Ventures	A2-MEB194119	05/29/07	05/29/07	06/01/08	KB
6020 ISS IP-PS-07-047	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	05/29/07	05/29/07	06/01/08	KB
6020 ISS IP-PS-07-048	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194085	05/29/07	05/29/07	06/01/08	KB
IP-PS-07-049	Li, Sr, Th, U	20 ug/mL	Inorganic Ventures	A2-MEB238016	06/01/07	06/04/07	06/01/08	KB
IP-PS-07-050	B, Mo, Sn, Ti	20 ug/mL	Inorganic Ventures	A2-MEB238017	06/01/07	06/04/07	06/01/08	KB
X-S Tune IP-PS-07-051	Ba, Be, Bi, Cr, Co, In, Li, Ni, Pb, U	10 ug/mL	Inorganic Ventures	A2-MEB238018	06/01/07	06/04/07	06/01/08	KB
IP-PS-07-052	Ag	1,000 ug/mL	CPI	06J107	06/06/07	06/07/07	12/01/08	KE
IP-PS-07-053	AL	10,000		07E205	07/09/07	07/19/07	01/05/09	JK
IP-PS-07-054	B	5,000		06K019				
IP-PS-07-055	CA	10,000		07F345				
IP-PS-07-056	CA	10,000		07F345				
IP-PS-07-057	Cd	10,000		07E050				
IP-PS-07-058	Co	10,000		07F078				
IP-PS-07-059	Cu	10,000		07F075				
IP-PS-07-060	FE	10,000		07E183				
IP-PS-07-061	K	10,000		07F131				
IP-PS-07-062	Li	10,000		06I145				
IP-PS-07-063	MG	10,000		07D085				
~~IP-PS-07-064~~	JK 07-19-07							

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Witnessed & Understood by me, [signature] Date 07/19/07

Invented by

Recorded by [signature] Date 07/19/07

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Project No. N/A

Book No. 2261

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DCL Solution #	Analytes	Concentration	Vendor	Lot #	Date Rec'd	Date Opened	Date Expires	Init.
IP-PS-07-064	MN	10,000 ug/mL	CPI	07C113	07/09/07	07/19/07	01/05/09	JK
IP-PS-07-065	MO	10,000		06H253				
IP-PS-07-066	NA	10,000		07F228				
IP-PS-07-067	P	10,000		07E211				
IP-PS-07-068	PB	10,000		07F278				
IP-PS-07-069	SE	10,000		07C158				
IP-PS-07-070	SN	10,000		06B011				
IP-PS-07-071	SR	10,000		06J208				
IP-PS-07-072	TE	10,000		4BK070				
IP-PS-07-073	TL	10,000		05K082				
IP-PS-07-074	V	5,000		07B083				
IP-PS-07-075	Y	10,000		07A200				
IP-PS-07-076	ZN	10,000		07D133				
IP-PS-07-077	AS	1,000		07F105				
IP-PS-07-078	CD	1,000		07C053				
IP-PS-07-079	PB	1,000		07F108				
IP-PS-07-080	SE	1,000		07C044				
IP-PS-07-081	TL	1,000		06C009				
IP-PS-07-082	SB	1,000		07A076				
IP-PS-07-083	ICSA	SEE FACING PAGE	EPA / QATS	ICSA (1206)	07/19/07	07/26/07	N/A	JK
IP-PS-07-084	SEE FACING PAGE					07/26/07		
IP-PS-07-085						08/27/07		
IP-PS-07-086						08/30/07		
IP-PS-07-087						10/15/07		
IP-PS-07-088						10/15/07		
IP-PS-07-089								
IP-PS-07-090								
IP-PS-07-091	ICSB	SEE FACING PAGE	EPA / QATS	ICSB (0203)	07/19/07	08/27/07	N/A	JK
IP-PS-07-092	SEE FACING PAGE					10/15/07		
IP-PS-07-093						12/21/07		
IP-PS-07-094						12/21/07		
IP-PS-07-095	ICV-1 SEE FACING PAGE	SEE FACING PAGE	EPA / QATS	ICV-1 (1201)	07/19/07	07/28/07	N/A	AE
IP-PS-07-096						08/30/07		
IP-PS-07-097						10/31/07		
IP-PS-07-098								

To Page No. 94

Witnessed & Understood by me, John Kershaw

Date 07/29/07

Invented by

Recorded by

Date 07/20/07

Project No. N/A

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT#	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT.
IP-PS-07-099	Fe / Ba, Zn	100 ug/mL / 50 ug/mL	Inorganic Ventures	2-MEB194099	08/24/07	08/28/07	09/01/08	KB
	Co, Cr3, Cu, Mn, Ni, Sb, V	20 ug/mL						
	As, Pb	10 ug/mL						
	Ag, Be, Cd, Se, Tl	5 ug/mL						
IP-PS-07-100	Ba, Cr3, Cu, Zn	50 ug/mL	Inorganic Ventures	A2-CIC20089	08/24/07	08/28/07	09/01/08	KB
	V / Ni	30 ug/mL / 25 ug/mL						
	Co, Pb, Sb / Ag, As, Cd	20 ug/mL / 10 ug/mL						
	Be, Se, Tl	5 ug/mL						
IP-PS-07-101	Au	1000 ug/mL	CPI	07D007	09/12/07	09/24/07	03/11/09	JK
IP-PS-07-102	Au	1000 ug/mL	CPI	07H065	09/12/07	09/24/07	03/11/09	JK
ICV/QC IP-PS-07-103	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	10 ug/mL	~~Inorganic Ventures~~ SPEX KB 10/01/07	5-112GS	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-104	Ca, Fe, Mg, K, Na	200 ug/mL	SPEX	4-616S	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-105	Mo, Th, U	10 ug/mL	SPEX	36-27AS	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-106	Mo, Sn, Sr, Ti	10 ug/mL	SPEX	5-116S	09/25/07	10/01/07	09/30/08	KB
λ + mass Cal IP-PS-07-107	Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	10 ug/mL	SPEX	33-133AS	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-108	Ce	1000 ug/mL	SPEX	13-84CE	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-109	Cs	1000 ug/mL	SPEX	13-56CS	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-110	Ga	1000 ug/mL	SPEX	13-34GA	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-111	Au	1000 ug/mL	SPEX	13-94AU	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-112	Pd	1000 ug/mL	SPEX	13-69PD	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-113	P	1000 ug/mL	SPEX	13-59P	09/25/07	10/01/07	09/30/08	KB
ICV/QC IP-PS-07-114	W	1000 ug/mL	SPEX	13-90W	09/25/07	10/01/07	09/30/08	KB
UOV TS IP-PS-07-115	Ba, Be, Ce, Co, In, Mg, Pb, Th, Tl	10 ug/mL	Inorganic Ventures	A2-MEB235023	09/26/07	10/01/07	10/01/08	KB
6020 TS IP-PS-07-116	Co, In, Li, Tl	10 ug/mL	Inorganic Ventures	A2-CICP20101	09/26/07	10/01/07	10/01/08	KB
6020 ICSA IP-PS-07-117	Cl / Ca	21,215 / 3000 ug/mL	Inorganic Ventures	A2-MEB194136	09/26/07	10/01/07	10/01/08	KB
	Fe, Na / C / Al, K, Mg, P, S	2500 / 2000 / 1000 ug/mL	Inorganic Ventures					
	Mo, Ti	20 ug/mL						

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Witnessed & Understood by me

Date 12/12/07

Invented by

Recorded by Kristie Bettin

Date 10/01/07

Project No. N/A

TITLE DATACHEM LABORATORIES- PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT.
IP-PS-07-140	ICSA	SEE FACING PAGE	EPA / QATS	PART A (1206)	11/08/07	12/12/07	N/A	KE
IP-PS-07-141	SEE FACING PAGE	↓	↓	↓	↓	12/21/07	↓	↓
IP-PS-07-142						12/21/07		
IP-PS-07-143						01/05/08		
IP-PS-07-144								
IP-PS-07-145								
IP-PS-07-146	ICSAB	SEE FACING PAGE	EPA / QATS	PART B (0203)	11/08/07		N/A	KE
IP-PS-07-147	SEE FACING PAGE	↓	↓	↓	↓	03/19/08	↓	↓
IP-PS-07-148	↓					05/09/08		
6020 Std IP-PS-07-149	Ag, Al, As, Ba, Be, Co, Cd,	20 ug/mL	Inorganic Ventures	Z-MEB194104	12/17/07	12/17/07	01/01/09	KB
6020 Std IP-PS-07-150	Co, Cr3, Cu, Fe, K, Mg, Mn, Na,	↓	↓	↓	↓	↓	↓	↓
12/17/07	Ni, Pb, Se, Sb, Tl, V, Zn							
12/17/07 6020/E-S IP-PS-07-151	~~Ba~~, Ba, Cr3, Cu, Zn	50 ug/mL	Inorganic Ventures	A2-CICP20089	12/17/07	12/17/07	01/01/09	KB
↓	Ni/Co, Pb, Sb/V	25 ug/mL / 20 ug/mL / 30 ug/mL	↓	↓	↓	↓	↓	↓
	~~Ag, As, Cd~~/Be, Se, Tl	10 ug/mL / 5 ug/mL						
ISS IP-PS-07-152	Be, Ho, In, Li, Rh, Sc,	10 ug/mL	Inorganic Ventures	A2-MEB194155	12/17/07	12/07/07	01/01/09	KB
ISS IP-PS-07-153	Tl, Y	↓	↓	↓	↓	↓	↓	↓
IP-PS-08-001	Li, Zr, Y, Bi, Se, Th, Tl	10 ug/mL	INORGANIC VENTURES	B2-ME[illegible]255[illegible]72	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-002	In	10 ug/mL	INORGANIC VENTURES	A2-[illegible]1N01[illegible]9D	02/05/08	02/05/08	03/01/09	KE
6020 WATER SPK IP-PS-08-003	Fe / Ba, Zn	100 ug/mL / 50 ug/mL	INORGANIC VENTURES	Z-MEB194099	02/05/08	02/05/08	03/01/09	KE
↓	Co, Cr3, Cu, Mn, Ni, Sb, V	20 ug/mL	↓	↓	↓	↓	↓	↓
	As, Pb	10 ug/mL						
	Ag, Be, Cd, Se, Tl	5 ug/mL						
IP-PS-08-004	Li, Sc, Th, U	20 ug/mL	INORGANIC VENTURES	A2-MEB2[illegible]045	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-005	B, Mo, Sn, Ti	20 ug/mL	INORGANIC VENTURES	A2-MEB2[illegible]044	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-006	Ca, Mg, K, Na / Al, Ba	500 ug/mL / 20 ug/mL	INORGANIC VENTURES	KE 02/14/08 Z-MEB194095	02/13/08	02/14/08	03/01/09	KE
↓	Fe / Sb, Zn	10 ug/mL / 6 ug/mL	↓	↓	↓	↓	↓	↓
	Co, V / Ni / Se	5 ug/mL / 4 ug/mL / 3.5						
	Cu, Tl / Mn	2.5 ug/mL / 1.5 ug/mL						
	~~Ag, As~~, Cr3, Pb / Be, Cd	1.0 ug/mL / 0.5 ug/mL						
IP-PS-08-007	Ag, Al, As, Ba, Be, Cd,	10 ug/mL	SPEX KB 2/29/08 ~~Inorganic Ventures~~	5-1126S	02/29/08	02/29/08	02/28/09	KB
↓	Co, Cr, Cu, Mn, Ni, Pb,	↓	↓	↓	↓	↓	↓	↓
	Sb, Se, Tl, V, Zn							
CCP-STK-6 IP-PS-08-008	Sb / Co, Se, Tl	100 ug/mL / 50 ug/mL	INORGANIC VENTURES	Z-MEB194090	03/10/08	03/10/08	03/01/09	KE
↓ 1362	As / Pb	40 ug/mL / 20 ug/mL	↓	↓	↓	↓	↓	↓

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Witnessed & Understood by me. Kristie Britain

Date 03/28/08

Invented by

Recorded by

Date 03/10/08

Project No. N/A

TITLE DATACHEM LABORATORIES- PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
CLPP-SPK-1 IP-PS-08-009	Al, Ba / Fe	2000 mg/mL / 1000 mg/mL	INORGANIC VENTURES	2-MEB174075	03/10/08	03/10/08	03/01/09	KE
	Co, Mn, Ni, V, Zn / Cu	500 mg/mL / 250 mg/mL						
1761	Cr3 / Ag, Be	200 mg/mL / 50 mg/mL						
IP-PS-08-010	ICSA (SEE FACING PAGE)	SEE FACING PAGE	EPA / QATS	ICSA (1206)	03/10/08	03/19/08	N/A	KE
IP-PS-08-011						08/19/08		
IP-PS-08-012								
IP-PS-08-013								
IP-PS-08-014								
IP-PS-08-015						05/21/08		
IP-PS-08-016						05/09/08		
IP-PS-08-017						05/21/08		
IP-PS-08-018	ICSAB	SEE FACING PAGE	EPA / QATS	ICSAB (0205)	03/10/08		N/A	KE
IP-PS-08-019	SEE FACING PAGE							
IP-PS-08-020								
6020 std IP-PS-08-021	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	2-MEB194104	03/27/08		04/01/09	KB
6020 ISS 03/28/08 IP-PS-08-022	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	A2-MEB194155	03/27/08		04/01/09	KB
6020 ISS 03/28/08 IP-PS-08-023								
6020 ISS 03/28/08 IP-PS-08-024								
IMO8023 (1879) IP-PS-08-025	Ag	1000 mg/mL	CPI	07H114	5/1/08	5/1/08	10/28/09	RKA
IMO8024 (1883) IP-PS-08-026	Sb	10,000 mg/mL	CPI	07F023	5/1/08		10/28/09	RKA
IMO8025 (1885) IP-PS-08-027	Ba	10,000 mg/mL	CPI	07C169	5/1/08		10/28/09	RKA
IP-PS-08-028 IMO8026 (1886)	K	10,000 mg/mL	CPI	08C049	5/1/08		10/28/09	RKA
IP-PS-08-029 IMO8027 (1887)	W	1000 mg/mL	CPI	07I208	5/1/08		10/28/09	RKA
IP-PS-08-030 IMO8028 (1888)	Pt	10000 mg/mL	CPI	07D260	5/1/08		10/28/09	RKA
IP-PS-08-031 IMO8029 (1889)	Na	10,000 mg/mL	CPI	08A030	5/1/08		10/28/09	RKA
IMO8030 (1890) IP-PS-08-032	Ti	10,000 mg/mL	CPI	08A002	5/1/08		10/28/09	RKA
IMO8031 (1891) IP-PS-08-033	Be	10,000 mg/mL	CPI	07F218	5/1/08		10/28/09	RKA
IMO8032 (1892) IP-PS-08-034	Al	10,000 mg/mL	CPI	08C004	5/1/08		10/28/09	RKA
IP-PS-08-035 IMO8033 (1893)	Fe	10,000 mg/mL	CPI	08B059	5/1/08		10/28/09	RKA
IP-PS-08-036 IMO8034 (1894)	Zr	1,000 mg/mL	CPI	08A083	5/1/08		10/28/09	RKA
IP-PS-08-037 IMO8035 (1895)	Ni	10,000 mg/mL	CPI	08A040	5/1/08		10/28/09	RKA
IP-PS-08-038 IMO8036 (1896)	Mg	10,000 mg/mL	CPI	08C006	5/1/08		10/28/09	RKA

To Page No. 98

Witnessed & Understood by me, Joanna C. Sanchez

Date 5/5/08

Invented by NA

Recorded by [signature]

Date 5/5/08

Project No. NA

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK 6/18/08 RKA

Book No. 2261

From Page No. 97

DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT#	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
IM08037(1897) IP-PS-08-039	As	10,000 µg/mL	CPI	07H102	5/1/08	5/1/08	10/28/09	RKA
IM08038(1898) IP-PS-08-040	Si	10,000 µg/mL	CPI	07D206	5/1/08	5/1/08	10/28/09	RKA
CRI-MS IP-PS-08-041	Ba / Be, V	10 µg/mL / 5 µg/mL	Inorganic Ventures	A2-MEB194150	05/05/08	05/05/08	06/01/09	KB
	Cr3, Cu, Sb, Zn	2 µg/mL						
	Ag, As, Br, Cd, Co, Mn,	1 µg/mL						
	Ni, Pb, Tl							
CLP-MS-S/R IP-PS-08-042	Al, Ba	200 µg/mL	Inorganic Ventures	A2-MEB194119	05/05/08	05/05/08	06/01/09	KB
	Co, Mn, Ni, V, Zn	50 µg/mL						
	Cu / Cr3	25 µg/mL / 20 µg/mL						
	Sb / Ag, Br, Cd, Tl	10 µg/mL / 5 µg/mL						
	As / Pb	4 µg/mL / 2 µg/mL						
	Se	1 µg/mL						
IM08039(1899) IP-PS-08-043	Cr	10,000 µg/mL	CPI	07I020	5/6/08	5/6/08	11/2/09	RKA
IM08042(1902) IP-PS-08-044	Bi	10,000 µg/mL	Elements	CS7011437	4/16/08	5/[illegible]/08	10/09	RKA
IP-PS-08-045	ICSA (See facing page)	See facing page	EPA/QATS	ICSA (1206)	04/16/08		NA	GCS
IP-PS-08-046								
IP-PS-08-047								
IP-PS-08-048								
IP-PS-08-049					04/17/08 GCS 5/9/08			
IP-PS-08-050	ICSAB (See facing Pg)	See facing page	EPA / QATS	ICSAB (0203)	04/16/08		NA	GCS
IP-PS-08-051								
IP-PS-08-052					04/17/08 GCS 5/9/08			
IP-PS-08-053	ICV-1 (See facing Pg)	See facing page	EPA / QATS	ICV-1 (1201)	04/16/08		NA	GCS
IP-PS-08-054								
IP-PS-08-055								
IP-PS-08-056								
IP-PS-08-057					04/17/08			
IP-PS-08-058	Soil LCSS (See facing page)	See facing page	EPA / QATS	LCS-S (0405)	04/17/08		NA	GCS
IP-PS-08-059	Ba, Be, Bi, Ce, Co, In, Li,	10 µg/mL	Inorganic Ventures	B2-MEB265024	05/08/08	05/13/08	06/01/09	KB
	Ni, Pb, U							
ICV-MS CLP ICS-1 IP-PS-08-060	See p.91 facing page:	See p.91 facing page	EPA / QATS	Part A ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-061	See p.91 facing page	See p.91 facing page	EPA / QATS	Part B ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-062	Pb	1,000 µg/mL	CPI	08D051	05/20/08	06/04/08	11/16/09	GCS
(6020 Cal) IP-PS-08-063	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3,	20 µg/mL	Inorganic Ventures	2-MEB194104	06/17/08	06/18/08	07/01/09	KB
	Cu, Fe, K, Mg, Mn, Na, Ni, Pb,							
	Sb, Se, Tl, V, Zn							

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Witnessed & Understood by me: Joanna C. Sanchez

Date: 6/27/08

Invented by:

Recorded by: Kristie Butler

Date: 06/18/08

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Wednesday, June 18, 2008 2:47 PM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Attachments: 2008061810320025.pdf; 37402 CLP IDs.xls

2008061810320025.pdf (642 KB) 37402 CLP IDs.xls (28 KB)

-----Original Message-----
From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Wednesday, June 18, 2008 2:24 PM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.
Resolution 1: Per Region 8, the laboratory will note issue in the SDG Narrative and will use the CLP sample ID provided in the attached table for the DM water and soil samples. The TM water samples will retain the CLP ID listed on the TR/COC.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4. TM container was received.
Resolution 2: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Beard.Carol@epamail.epa.gov [mailto:Beard.Carol@epamail.epa.gov]
Sent: Wednesday, June 18, 2008 1:17 PM
To: Kramer, Caroline
Subject: Re: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Caroline-

Issue 1 : Please provide the laboratory with new ID for the different matrices for Case 37402.

Issue 2 : Please have the laboratory note this in the case narrative and proceed with the analysis.

Thanks! Carol

"Kramer, Caroline" <ckramer5@fedcsc.com>

06/18/2008 11:06 AM

To: Carol Beard/EPR/R8/USEPA/US@EPA

cc:

Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Carol,
DATAC is reporting the follow issues regarding Case 37402 for samples delivered today. TR/COC are attached for reference. Please advise on how the Region wishes the laboratory to proceed.

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.

*Please advise if you would like me to provide new ID for the different matrices. I can do this in a table like last time.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4.
TM container was received.

Please let me know if you have any questions.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, June 18, 2008 12:40 PM
To: Kramer, Caroline
Cc: Edwards, Meredith D.
Subject: Case 37402 Sample Delivery 6/18

Caroline: Here are the TRs for case 37402 for samples we received today and which we spoke about a few minutes ago on the phone.

Issues we see immediately:

TM, DM and Sediment samples all have same EPA IDs. Water containers labels do

differentiate between DM and TM.
No container was received for DM for sample on TR designated MH25A4. TM container was received.
How do we complete DC-1 forms?

More issues may crop up but we can't begin to address this delivery until we get the first issues taken care of.

Thanks for your help!

Roxy
(See attached file: 2008061810320025.pdf)

Listed TR ID	Matrix	Analysis	New CLP ID
MH2599	water	TM	MH2599
	water (filterd)	DM	MH2662
	soil	TM	MH2663
MH25A0	water	TM	MH25A0
	water (filterd)	DM	MH2664
	soil	TM	MH2665
MH25A1	water	TM	MH25A1
	water (filterd)	DM	MH2666
	soil	TM	MH2667
MH25A2	water	TM	MH25A2
	water (filterd)	DM	MH2668
	soil	TM	MH2669
MH25A3	water	TM	MH25A3
	water (filterd)	DM	MH2670
	soil	TM	MH2671
MH25A6	water	TM	MH25A6
	water (filterd)	DM	MH2672
MH25A7	water	TM	MH25A7
	water (filterd)	DM	MH2673
	soil	TM	MH2674
MH25A9	water	TM	MH25A9
	water (filterd)	DM	MH2675
	soil	TM	MH2676
MH25B0	water	TM	MH25B0
	water (filterd)	DM	MH2677
	soil	TM	MH2678
MH25B1	water	TM	MH25B1
	water (filterd)	DM	MH2679
	soil	TM	MH2680
MH25B2	water	TM	MH25B2
	water (filterd)	DM	MH2681
	soil	TM	MH2682
MH25B3	water	TM	MH25B3
	water (filterd)	DM	MH2683
	soil	TM	MH2684
MH25B4	water	TM	MH25B4
	water (filterd)	DM	MH2685
MH25B5	water	TM	MH25B5
	water (filterd)	DM	MH2686
	soil	TM	MH2687
MH25B6	water	TM	MH25B6
	water (filterd)	DM	MH2688
	soil	TM	MH2689
MH25B7	water	TM	MH25B7
	water (filterd)	DM	MH2690
	soil	TM	MH2691

MH25B8	water	TM	MH25B8
	water (filterd)	DM	MH2692
	soil	TM	MH2693
MH25C0	water	TM	MH25C0
	water (filterd)	DM	MH2694
	soil	TM	MH9695
MH25C4	water	TM	MH25C4
	water (filterd)	DM	MH2696
MH25C5	water	TM	MH25C5
	water (filterd)	DM	MH2697
	soil	TM	MH2698
MH25C7	water	TM	MH25C7
	water (filterd)	DM	MH2699
	soil	TM	MH26A0
MH25C8	water	TM	MH25C8
	water (filterd)	DM	MH26A1
	soil	TM	MH26A2
MH25C9	water	TM	MH25C9
	water (filterd)	DM	MH26A3
MH25D1	water	TM	MH25D1
	water (filterd)	DM	MH26A4
	soil	TM	MH26A5
MH25D3	water	TM	MH25D3
	water (filterd)	DM	MH26A6
MH25D4	water	TM	MH25D4
	water (filterd)	DM	MH26A7
	soil	TM	MH26A8
MH25D5	water	TM	MH25D5
	water (filterd)	DM	MH26A9
	soil	TM	MH26B0
MH25D6	water	TM	MH25D6
	water (filterd)	DM	MH26B1
MH25D7	water	TM	MH25D7
	water (filterd)	DM	MH26B2
	soil	TM	MH26B3
MH25D8	water	TM	MH25D8
	water (filterd)	DM	MH25B4
MH25D9	water	TM	MH25D9
	water (filterd)	DM	MH26B5
MH25E0	water	TM	MH25E0
	water (filterd)	DM	MH26B6
MH25E1	water	TM	MH25E1
	water (filterd)	DM	MH26B7
MH25E2	water	TM	MH25E2
	water (filterd)	DM	MH26B8
MH25E3	water	TM	MH25E3
	water (filterd)	DM	MH26B9

MH25E4	water	TM	MH25E4
	water (filterd)	DM	MH26C0
	soil	TM	MH26C1
MH25E5	water	TM	MH25E5
	water (filterd)	DM	MH26C2
	soil	TM	MH26C3
MH25E6	water	TM	MH25E6
	water (filterd)	DM	MH26C4
	soil	TM	MH26C5
MH25E7	water	TM	MH25E7
	water (filterd)	DM	MH26C6
	soil	TM	MH26C7
MH25E8	water	TM	MH25E8
	water (filterd)	DM	MH26C8
	soil	TM	MH26C9
MH25E9	water	TM	MH25E9
	water (filterd)	DM	MH26D0
MH25F0	water	TM	MH25F0
	water (filterd)	DM	MH26D1

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Friday, June 20, 2008 9:54 AM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Friday, June 20, 2008 9:46 AM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

Roxy,
Summary Start
Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.
MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC
Resolution: Per Region 8, the laboratory's selection of soil QC samples is acceptable. The laboratory will note the volume insufficiency in the SDG Narrative, cancel lab QC on the TM and DM SDG and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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→ 6/20/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol confirmed that the soil samples selected for QC are acceptable and that DATAC can cancel the QC for the water samples due to insufficient sample volume. The laboratory will note the issue in the SDG Narrative.

From: Kramer, Caroline

Sent: Thursday, June 19, 2008 3:21 PM
To: 'beard.carol@epa.gov'
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume

Carol,
DATAC is reporting the following issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 3:04 PM
To: Kramer, Caroline
Subject: FW: Region 8 Case 37402

Caroline: See the following for the SDGs and where possible DATAC's selection for QC. Please note that because this was a confusing login effort we have one SDG (MH2663) that we did not use the lowest alpha numeric number to name the SDG.

Roxy

From: Edwards, Meredith D.
Sent: Thursday, June 19, 2008 12:57 PM
To: DataChem EPA List
Subject: Region 8 Case 37402

Here are the SDG names and then the samples I chose for QC.

MH2599 TM water no QC selected as there is not enough volume.

MH25C5 TM water no QC selected as there is not enough volume.

MH25E8 TM water no QC selected as there is not enough volume.

MH2662 DM water no QC selected as there is not enough volume.

MH2697 DM water no QC selected as there is not enough volume.

MH26C8 DM water no QC selected as there is not enough volume.

MH25F1 TM soil selected MH26C9 for QC.

MH2663 TM soil selected MH2695 for QC also on this SDG I used a higher number to name the SDG. Since there were only 2 samples that didn't change names after receipt it was very confusing.

Thanks

Mere

-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, June 19, 2008 10:47 AM
To: 'Olson, Roxanne'
Subject: RE: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Just let me know as soon as you know which SDG will not have sufficient volume and I will pass it along to the Region for a resolution.
Please let me know if you have any confusion with the spreadsheet of new sample IDs as you are logging them in.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 10:38 AM
To: Kramer, Caroline
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline: Another issue with the samples from yesterday as we were logging them in. We have no extra volume for the water samples for QC. Is the case closed or should we expect additional volume from another delivery? We can't even do a reduced volume on the waters as the samplers are delivering the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. I will let you know which SDGs will not have QC as soon as we complete the login.

Roxy