

Report of Trace Metals Analyses Water, Sediment

Project: Great Salt Lake Water Quality Sampling Plan

Samples Collected: August 14 -16, 2012

Report Date: October 8, 2012

Prepared for:

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Case Narrative

Shipping and Receiving

On August 17, 2012, Brooks Rand Labs (BRL) received twelve (12) waters and two (2) sediment samples at 08:45 A.M. in one (1) cooler with ice all at the temperature of 2.0 °C. The chain-of-custody (COC) forms requested analysis for mercury (Hg) and selenium (Se) of the water samples, and total Se and percent total solids (%TS) for the sediment samples. The samples were received and stored securely according to BRL standard operating procedures (SOP) and EPA methodology.

Preservation and Holding Time

All method and SOP requirements for preservation and holding time were satisfied.

Total Mercury in Water by EPA Method 1631 (SOP BR-0006)

All samples are prepared and analyzed in accordance with EPA Method 1631. Samples are oxidized with bromine monochloride (BrCl) and then analyzed with stannous chloride (SnCl₂) reduction, single gold amalgamation, and cold vapor atomic fluorescence spectroscopy (CVAFS) detection using a BRL Model III CVAFS Mercury Analyzer.

The results were method blank-corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

Sequence 1200682

The result of continuing calibration blank CCB2 was elevated and the CCB/purge vessel (#3) combination were re-analyzed as CCB5 and CCB6. Contamination was suspected to be attributed to the analysis of high level sample 1234035-12 (not related to this work order). CCB6 yielded a result of 11.8 pg of Hg and purge vessel #3 was put back into service. Two samples using purge vessel #3 were analyzed prior to CCB6; one of which was sample *AIC-Hg-201* (1233038-09). This sample was re-analyzed and the re-analysis was reported.

The sample identified as ICB1 is an extraction blank unrelated to this work order.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121582

The initial analysis of sample *OGBA2-FBHg* (1233038-01) produced an abnormal peak shape. The sample was re-analyzed, produced a typical peak shape, and the re-analysis was reported. Furthermore the sample result was greater than the MDL but less than the Method Defined Control limit of 0.5 ng/L. Contamination was considered insignificant from this field blank.

All data was reported without additional qualification, aside from concentration qualifiers, and all other associated quality control sample results met the acceptance criteria.

ICP-MS Analysis by EPA Draft Method 1640, Mod. (BRL SOP BR-0066)

Samples are preserved to 0.2% (v/v) with pre-tested concentrated HNO₃ and then prepared by reductive precipitation (RP) according to EPA Method 1640. The procedure concentrates the samples by a factor of four and is a useful method for achieving a low level of detection for brackish waters and seawaters.

This method involves a reductive precipitation of all metals by sodium borohydride (NaBH₄) followed by a filtration of the precipitate through a pre-cleaned 0.2- μ m filter. The majority of the saltwater matrix remains in the filtrate. The metals on the filter are then digested and oxidized with nitric acid (HNO₃) and hydrogen peroxide (H₂O₂).

Aliquots of prepared sample were analyzed with a Perkin Elmer ELAN with internal standardization. Briefly, this method incorporates ionization of the sample in inductively coupled RF plasma, with detection of the resulting ions by mass spectrometer on the basis of their mass-to-charge ratio.

Sequence 1200711

Instrument calibration blank ICB3 was elevated at a level greater than the low calibration standard. The cause was likely carryover from the high calibration standard analyzed immediately prior to ICB3. There was no other evidence of high blank and the analysis of ICB3 did not bracket the analysis of client samples.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121544

Quality control samples –MS3 was a seawater sample collected in Puget Sound and spiked with an analyte of a known concentration. All quality assurance criteria were satisfied.

ICP-MS Analysis by EPA Draft Method 1638, Mod. (BRL SOP BR-0060)

Sediment samples are digested with a closed-vessel reverse aqua regia (RAR) oven bomb digestion for total recoverable metals. Prepared samples are analyzed by inductively coupled plasma – mass spectrometry (ICP-MS) according to a modification of EPA Draft Method 1638. Briefly, this method incorporates ionization of the sample in an inductively coupled RF plasma, with detection of the resulting ions by mass spectrometer on the basis of their mass-to-charge ratio. Digestates are diluted with reagent water 50x prior to analysis, depending upon the element and concentration ranges to be determined. Samples are analyzed on a Perkin Elmer DRC II (in standard mode), and internal standardization in standard mode is accomplished using 6Li, Sc, Ge, In, Tm. Sample results were reported on a dry-weight basis.

Sequence 1200726

The results of instrument calibration blanks ICB2 and ICB3 were greater than the low calibration standard. The cause was likely carryover from the high calibration standard and the independent calibration verification standard (ICV1); both of which were analyzed prior to ICB2 and ICB3. No client samples were bracketed by either ICB and no further action was necessary.

The analyses of CCBE through CCBH were slightly elevated; however the results at the instrument were less than 10x the sample results. No further action was necessary.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121713

All data was reported without qualification, aside from concentration qualifiers, and all associated quality control sample results met the acceptance criteria.

Percent Total Solids in Solids by SM 2540G (SOP BR-1501)

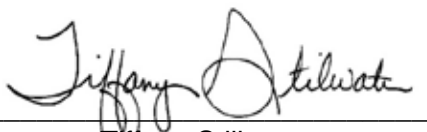
A solid sample is homogenized and an aliquot is measured into a pre-weighed vessel, dried in an oven overnight, weighed again, and the percent of dried solid material is calculated.

The results may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the Sample Results page for sample-specific MDLs, MRLs, and other details.

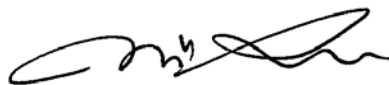
Batch B121638

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

We certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.



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Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
OGBA2-FBHg	1233038-01	DIW	Field Blank	08/16/2012	08/17/2012
OGBA2-Hg 01	1233038-02	Water	Sample	08/16/2012	08/17/2012
OGBA2-Hg 02	1233038-03	Water	Field Duplicate	08/16/2012	08/17/2012
OGBA2-FBSe	1233038-04	DIW	Field Blank	08/16/2012	08/17/2012
OGBA2-Se01	1233038-05	Water	Sample	08/16/2012	08/17/2012
OGBA2-Se02	1233038-06	Water	Field Duplicate	08/16/2012	08/17/2012
AIC-FB-Se2	1233038-07	DIW	Field Blank	08/14/2012	08/17/2012
AIC-FB-Hg2	1233038-08	DIW	Field Blank	08/14/2012	08/17/2012
AIC-Hg-201	1233038-09	Water	Sample	08/14/2012	08/17/2012
AIC-Hg-202	1233038-10	Water	Field Duplicate	08/14/2012	08/17/2012
AIC-Se-201	1233038-11	Water	Sample	08/14/2012	08/17/2012
AIC-Se-202	1233038-12	Water	QC Sample	08/14/2012	08/17/2012
OGBA2-Sed	1233038-13	Soil/Sediment	Sample	08/16/2012	08/17/2012
AIC-Sed-2	1233038-14	Soil/Sediment	Sample	08/14/2012	08/17/2012

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	09/07/2012	09/10/2012	B121638	N/A
Se	Soil/Sediment	EPA 1638 DRC	08/30/2012	09/19/2012	B121713	1200726
Hg	Water	EPA 1631	09/03/2012	09/04/2012	B121582	1200682
Se	Water	EPA 1640 RP	08/27/2012	09/14/2012	B121544	1200711



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
AIC-FB-Hg2										
1233038-08	Hg	DIW	T	0.15	U	0.15	0.40	ng/L	B121582	1200682
AIC-FB-Se2										
1233038-07	Se	DIW	T	0.349	U	0.349	1.05	µg/L	B121544	1200711
AIC-Hg-201										
1233038-09	Hg	Water	T	61.1		1.58	4.21	ng/L	B121582	1200682
AIC-Hg-202										
1233038-10	Hg	Water	T	49.8		1.58	4.21	ng/L	B121582	1200682
AIC-Se-201										
1233038-11	Se	Water	T	0.699	B	0.347	1.04	µg/L	B121544	1200711
AIC-Se-202										
1233038-12	Se	Water	T	0.640	B	0.350	1.05	µg/L	B121544	1200711
AIC-Sed-2										
1233038-14	%TS	Soil/Sediment	NA	53.02		0.06	0.20	%	B121638	N/A
1233038-14	Se	Soil/Sediment	dry	0.90	B	0.29	1.78	mg/kg	B121713	1200726
OGBA2-FBHg										
1233038-01	Hg	DIW	T	0.24	B	0.15	0.41	ng/L	B121582	1200682
OGBA2-FBSe										
1233038-04	Se	DIW	T	0.344	U	0.344	1.03	µg/L	B121544	1200711
OGBA2-Hg 01										
1233038-02	Hg	Water	T	36.3		1.53	4.08	ng/L	B121582	1200682
OGBA2-Hg 02										
1233038-03	Hg	Water	T	39.5		1.53	4.08	ng/L	B121582	1200682



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
OGBA2-Se01										
1233038-05	Se	Water	T	0.349	U	0.349	1.05	µg/L	B121544	1200711
OGBA2-Se02										
1233038-06	Se	Water	T	0.349	U	0.349	1.05	µg/L	B121544	1200711
OGBA2-Sed										
1233038-13	%TS	Soil/Sediment	NA	66.76		0.06	0.20	%	B121638	N/A
1233038-13	Se	Soil/Sediment	dry	0.83	B	0.23	1.41	mg/kg	B121713	1200726



Accuracy & Precision Summary

Batch: B121544
 Lab Matrix: Water
 Method: EPA 1640 RP

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121544-BS1	Laboratory Fortified Blank (1235007) Se		0.4975	0.450	µg/L	90% 70-130	
B121544-MS3	Matrix Spike (0944029-92) Se	0.091	0.4975	0.627	µg/L	108% 70-130	
B121544-DUP2	Duplicate (1233038-12) Se	0.640		0.553	µg/L		15% 30
B121544-MS2	Matrix Spike (1233038-12) Se	0.640	2.475	2.430	µg/L	72% 70-130	
B121544-MSD2	Matrix Spike Duplicate (1233038-12) Se	0.640	2.494	2.569	µg/L	77% 70-130	6% 30



Accuracy & Precision Summary

Batch: B121582
 Lab Matrix: Water
 Method: EPA 1631

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121582-SRM1	Certified Reference Material (1232065, NIST 1641d 1000x dilution) Hg		15.68	14.67	ng/L	94% 85-115	
B121582-MS1	Matrix Spike (1235006-03) Hg	11.35	56.09	68.69	ng/L	102% 71-125	
B121582-MSD1	Matrix Spike Duplicate (1235006-03) Hg	11.35	54.54	63.85	ng/L	96% 71-125	7% 24

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Accuracy & Precision Summary

Batch: B121638
Lab Matrix: Soil/Sediment
Method: SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121638-DUP1	Duplicate (1233038-13) %TS	66.76		61.08	%		9% 15



Accuracy & Precision Summary

Batch: B121713
 Lab Matrix: Soil/Sediment
 Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121713-BS1	Laboratory Fortified Blank (1235021) Se		10.00	9.35	mg/kg	93% 75-125	
B121713-SRM1	Certified Reference Material (0919050, NIST 2709a) Se		1.500	1.87	mg/kg	125% N/A	
B121713-SRM2	Certified Reference Material (0919053, NIST 2710a) Se		1.000	0.96	mg/kg	96% 75-125	
B121713-DUP3	Duplicate (1233038-14) Se	0.90		1.06	mg/kg dry		16% 30
B121713-MS3	Matrix Spike (1233038-14) Se	0.90	17.86	16.52	mg/kg dry	87% 70-130	
B121713-MSD3	Matrix Spike Duplicate (1233038-14) Se	0.90	19.09	18.41	mg/kg dry	92% 70-130	11% 30

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Method Blanks & Reporting Limits

Batch: B121544
Matrix: Water
Method: EPA 1640 RP
Analyte: Se 82

Sample	Result	Units		
B121544-BLK1	0.010	µg/L		
B121544-BLK2	0.014	µg/L		
B121544-BLK3	-0.013	µg/L		
B121544-BLK4	0.012	µg/L		
Average: 0.006			Standard Deviation: 0.013	MDL: 0.070
Limit: 0.210			Limit: 0.070	MRL: 0.210

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Method Blanks & Reporting Limits

Batch: B121582
Matrix: Water
Method: EPA 1631
Analyte: Hg

Sample	Result	Units		
B121582-BLK1	0.12	ng/L		
B121582-BLK2	0.11	ng/L		
B121582-BLK3	0.10	ng/L		
B121582-BLK4	0.08	ng/L		
Average:	0.10		Standard Deviation:	0.02
Limit:	0.50		Limit:	0.10
			MDL:	0.15
			MRL:	0.41

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Method Blanks & Reporting Limits

Batch: B121638
Matrix: Soil/Sediment
Method: SM 2540G
Analyte: %TS

Sample	Result	Units	
B121638-BLK1	0.00	%	
B121638-BLK2	0.00	%	
Average:	0.00		MDL: 0.06
Limit:	0.20		MRL: 0.20

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Method Blanks & Reporting Limits

Batch: B121713
Matrix: Soil/Sediment
Method: EPA 1638 DRC
Analyte: Se 78

Sample	Result	Units		
B121713-BLK1	-0.06	mg/kg		
B121713-BLK2	-0.13	mg/kg		
B121713-BLK3	-0.12	mg/kg		
B121713-BLK4	-0.08	mg/kg		
Average:	-0.10		Standard Deviation:	0.03
Limit:	1.00		Limit:	0.16
			MDL:	0.16
			MRL:	1.00



Instrument Calibration

Sequence: 1200682
 Instrument: THG-05
 Date: 09/04/2012
 Analyte: Hg

Total Mercury and Mercury Speciation by CVAFS
 Method: EPA 1631

Lab ID	True Value	Result	Units	REC & Limits
1200682-IBL1		6.02	pg of Hg	
1200682-IBL2		4.41	pg of Hg	
1200682-IBL3		4.90	pg of Hg	
1200682-IBL4		5.70	pg of Hg	
1200682-CAL1	25.00	24.92	pg of Hg	100%
1200682-CAL2	100.0	101.4	pg of Hg	101%
1200682-CAL3	500.0	468.1	pg of Hg	94%
1200682-CAL4	2500	2674	pg of Hg	107%
1200682-CAL5	10000	9923	pg of Hg	99%
1200682-ICV1	1568	1467	pg of Hg	94% 85-115
1200682-CCV1	500.0	419.2	pg of Hg	84% 77-123
1200682-CCB1		13.2	pg of Hg	
1200682-ICB1		30.36	pg of Hg	
1200682-CCB2		37.6	pg of Hg	
1200682-CCB3		20.1	pg of Hg	
1200682-CCB4		18.4	pg of Hg	
1200682-CCB5		29.3	pg of Hg	
1200682-CCB6		11.8	pg of Hg	
1200682-CCV2	500.0	544.2	pg of Hg	109% 77-123
1200682-CCV3	500.0	504.0	pg of Hg	101% 77-123
1200682-CCV4	500.0	475.0	pg of Hg	95% 77-123



Instrument Calibration

Sequence: 1200711
 Instrument: ICP-MS-2
 Date: 09/14/2012
 Analyte: Se 82

Trace Metals by ICP-MS
 Method: EPA 1640 RP

Lab ID	True Value	Result	Units	REC & Limits	
1200711-ICB1		0.000	µg/L		
1200711-CAL1	0.2000	0.192	µg/L	96%	
1200711-CAL2	0.4000	0.433	µg/L	108%	
1200711-CAL3	2.000	2.003	µg/L	100%	
1200711-CAL4	10.00	9.853	µg/L	99%	
1200711-CAL5	20.00	20.57	µg/L	103%	
1200711-CAL6	40.00	40.88	µg/L	102%	
1200711-CAL7	100.0	97.89	µg/L	98%	
1200711-CAL8	200.0	188.6	µg/L	94%	
1200711-ICB2		0.391	µg/L		
1200711-ICV1	10.00	10.23	µg/L	102%	85-115
1200711-ICB3		0.087	µg/L		
1200711-IBL1		0.058	µg/L		
1200711-IBL2		-0.031	µg/L		
1200711-IBL3		0.043	µg/L		
1200711-IBL4		-0.006	µg/L		
1200711-CCV1	10.00	10.32	µg/L	103%	75-125
1200711-CCB1		0.128	µg/L		
1200711-CCV2	10.00	9.080	µg/L	91%	75-125
1200711-CCB2		0.041	µg/L		
1200711-CCV3	10.00	10.19	µg/L	102%	75-125
1200711-CCB3		0.050	µg/L		
1200711-CCV4	10.00	10.76	µg/L	108%	75-125
1200711-CCB4		0.058	µg/L		
1200711-CCV5	10.00	10.24	µg/L	102%	75-125
1200711-CCB5		0.020	µg/L		
1200711-CCV6	10.00	10.14	µg/L	101%	75-125
1200711-CCB6		0.076	µg/L		
1200711-CCV7	20.00	20.64	µg/L	103%	75-125
1200711-CCB7		0.082	µg/L		
1200711-CCV8	20.00	20.00	µg/L	100%	75-125
1200711-CCB8		0.053	µg/L		
1200711-CCV9	20.00	20.42	µg/L	102%	75-125
1200711-CCB9		0.067	µg/L		
1200711-CCVA	20.00	20.55	µg/L	103%	75-125
1200711-CCBA		0.115	µg/L		
1200711-CCVB	20.00	20.35	µg/L	102%	75-125
1200711-CCBB		0.063	µg/L		
1200711-CCVC	20.00	18.93	µg/L	95%	75-125
1200711-CCBC		0.048	µg/L		
1200711-CCVD	20.00	20.02	µg/L	100%	75-125

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Instrument Calibration

Sequence: 1200711
Instrument: ICP-MS-2
Date: 09/14/2012
Analyte: Se 82

Trace Metals by ICP-MS
Method: EPA 1640 RP

Lab ID	True Value	Result	Units	REC & Limits	
1200711-CCBD		0.108	µg/L		
1200711-CCVE	20.00	20.44	µg/L	102%	75-125
1200711-CCBE		0.090	µg/L		
1200711-CCVF	40.00	41.07	µg/L	103%	75-125
1200711-CCBF		0.133	µg/L		
1200711-CCVG	40.00	39.91	µg/L	100%	75-125
1200711-CCBG		0.113	µg/L		
1200711-CCVH	40.00	38.47	µg/L	96%	75-125
1200711-CCBH		0.151	µg/L		
1200711-CCVI	40.00	37.24	µg/L	93%	75-125
1200711-CCBI		0.081	µg/L		
1200711-CCVJ	40.00	38.49	µg/L	96%	75-125
1200711-CCBJ		0.118	µg/L		
1200711-CCVK	40.00	38.83	µg/L	97%	75-125
1200711-CCBK		0.158	µg/L		



Instrument Calibration

Sequence: 1200726
 Instrument: ICP-MS-2
 Date: 09/19/2012
 Analyte: Se 78

Trace Metals by ICP-DRC-MS
 Method: EPA 1638 DRC

Lab ID	True Value	Result	Units	REC & Limits	
1200726-ICB1		0.00	µg/L		
1200726-CAL1	0.05000	0.05	µg/L	92%	
1200726-CAL2	0.1000	0.11	µg/L	115%	
1200726-CAL3	0.2500	0.26	µg/L	104%	
1200726-CAL4	1.000	0.92	µg/L	92%	
1200726-CAL5	5.000	4.80	µg/L	96%	
1200726-CAL6	25.00	25.20	µg/L	101%	
1200726-CAL7	125.0	123.1	µg/L	98%	
1200726-CAL8	500.0	506.0	µg/L	101%	
1200726-ICB2		1.09	µg/L		
1200726-ICV1	10.00	10.88	µg/L	109%	85-115
1200726-ICB3		0.16	µg/L		
1200726-IBL1		0.05	µg/L		
1200726-IBL2		0.05	µg/L		
1200726-IBL3		0.02	µg/L		
1200726-IBL4		0.04	µg/L		
1200726-SCV1	11.97	12.54	µg/L	105%	75-125
1200726-CCV1	1.000	0.95	µg/L	95%	75-125
1200726-CCB1		0.03	µg/L		
1200726-CCV2	1.000	0.99	µg/L	99%	75-125
1200726-CCB2		-0.006	µg/L		
1200726-CCV3	1.000	0.89	µg/L	89%	75-125
1200726-CCB3		-0.01	µg/L		
1200726-CCV4	1.000	0.91	µg/L	91%	75-125
1200726-CCB4		-0.01	µg/L		
1200726-CCV5	1.000	0.94	µg/L	94%	75-125
1200726-CCB5		0.05	µg/L		
1200726-CCV6	1.000	0.81	µg/L	81%	75-125
1200726-CCB6		-0.02	µg/L		
1200726-CCV7	5.000	4.20	µg/L	84%	75-125
1200726-CCB7		0.01	µg/L		
1200726-CCV8	1.000	0.90	µg/L	90%	75-125
1200726-CCB8		0.02	µg/L		
1200726-CCV9	1.000	0.86	µg/L	86%	75-125
1200726-CCB9		-0.03	µg/L		
1200726-CCVA	5.000	4.17	µg/L	83%	75-125
1200726-CCBA		0.001	µg/L		
1200726-CCVB	25.00	22.39	µg/L	90%	75-125
1200726-CCBB		0.06	µg/L		
1200726-CCVC	5.000	4.24	µg/L	85%	75-125
1200726-CCBC		-0.01	µg/L		

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Instrument Calibration

Sequence: 1200726
Instrument: ICP-MS-2
Date: 09/19/2012
Analyte: Se 78

Trace Metals by ICP-DRC-MS
Method: EPA 1638 DRC

Lab ID	True Value	Result	Units	REC & Limits
1200726-CCVD	25.00	21.52	µg/L	86% 75-125
1200726-CCBD		0.05	µg/L	
1200726-CCVE	25.00	21.26	µg/L	85% 75-125
1200726-CCBE		0.07	µg/L	
1200726-CCVF	25.00	21.66	µg/L	87% 75-125
1200726-CCBF		0.08	µg/L	
1200726-CCVG	25.00	21.27	µg/L	85% 75-125
1200726-CCBG		0.06	µg/L	
1200726-CCVH	25.00	21.34	µg/L	85% 75-125
1200726-CCBH		0.07	µg/L	

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Sample Containers

Lab ID: 1233038-01 Sample: OGBA2-FBHg			Report Matrix: DIW Sample Type: Field Blank		Collected: 08/16/2012 Received: 08/17/2012
Des Container A Bottle FLPE Hg-T	Size 500 mL	Lot 71666330 10	Preservation none	P-Lot n/a	pH Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-02 Sample: OGBA2-Hg 01			Report Matrix: Water Sample Type: Sample		Collected: 08/16/2012 Received: 08/17/2012
Des Container A Bottle FLPE Hg-T	Size 500 mL	Lot 71666330 10	Preservation none	P-Lot n/a	pH Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-03 Sample: OGBA2-Hg 02			Report Matrix: Water Sample Type: Field Duplicate		Collected: 08/16/2012 Received: 08/17/2012
Des Container A Bottle FLPE Hg-T	Size 500 mL	Lot 71666330 10	Preservation none	P-Lot n/a	pH Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-04 Sample: OGBA2-FBSe			Report Matrix: DIW Sample Type: Field Blank		Collected: 08/16/2012 Received: 08/17/2012
Des Container A Bottle HDPE ICP-RP	Size 1 L	Lot 1068522	Preservation 0.2% HNO3 (BRL)	P-Lot 1229024	pH <2 Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-05 Sample: OGBA2-Se01			Report Matrix: Water Sample Type: Sample		Collected: 08/16/2012 Received: 08/17/2012
Des Container A Bottle HDPE ICP-RP	Size 1 L	Lot 1068522	Preservation 0.2% HNO3 (BRL)	P-Lot 1229024	pH <2 Ship. Cont. Cardboard Box w/ Styro Cooler

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Sample Containers

Lab ID: 1233038-06
Sample: OGBA2-Se02
Report Matrix: Water
Sample Type: Field Duplicate
Collected: 08/16/2012
Received: 08/17/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-RP	1 L	1068522	0.2% HNO3 (BRL)	1229024	<2	Cardboard Box w/ Styro Cooler

Lab ID: 1233038-07
Sample: AIC-FB-Se2
Report Matrix: DIW
Sample Type: Field Blank
Collected: 08/14/2012
Received: 08/17/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-RP	1 L	1068522	0.2% HNO3 (BRL)	1229024	<2	Cardboard Box w/ Styro Cooler

Lab ID: 1233038-08
Sample: AIC-FB-Hg2
Report Matrix: DIW
Sample Type: Field Blank
Collected: 08/14/2012
Received: 08/17/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	500 mL	71666330 10	none	n/a		Cardboard Box w/ Styro Cooler

Lab ID: 1233038-09
Sample: AIC-Hg-201
Report Matrix: Water
Sample Type: Sample
Collected: 08/14/2012
Received: 08/17/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	500 mL	71666330 10	none	n/a		Cardboard Box w/ Styro Cooler

Lab ID: 1233038-10
Sample: AIC-Hg-202
Report Matrix: Water
Sample Type: Field Duplicate
Collected: 08/14/2012
Received: 08/17/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	500 mL	71666330 10	none	n/a		Cardboard Box w/ Styro Cooler

Project ID: UDE-SL1201
PM: Tiffany Stilwater



BRL Report 1233038
Client PM: Jodi Gardberg
Client PO: SS12208

Sample Containers

Lab ID: 1233038-11 Sample: AIC-Se-201	Report Matrix: Water Sample Type: Sample	Collected: 08/14/2012 Received: 08/17/2012				
Des Container A Bottle HDPE ICP-RP	Size 1 L	Lot 1068522	Preservation 0.2% HNO3 (BRL)	P-Lot 1229024	pH <2	Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-12 Sample: AIC-Se-202	Report Matrix: Water Sample Type: QC Sample	Collected: 08/14/2012 Received: 08/17/2012				
Des Container A Bottle HDPE ICP-RP	Size 2 L	Lot 1042643	Preservation 0.2% HNO3 (BRL)	P-Lot 1229024	pH <2	Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-13 Sample: OGBA2-Sed	Report Matrix: Soil/Sediment Sample Type: Sample	Collected: 08/16/2012 Received: 08/17/2012				
Des Container A Client-Provided	Size	Lot	Preservation none	P-Lot n/a	pH	Ship. Cont. Cardboard Box w/ Styro Cooler
Lab ID: 1233038-14 Sample: AIC-Sed-2	Report Matrix: Soil/Sediment Sample Type: Sample	Collected: 08/14/2012 Received: 08/17/2012				
Des Container A Client-Provided	Size	Lot	Preservation none	P-Lot n/a	pH	Ship. Cont. Cardboard Box w/ Styro Cooler

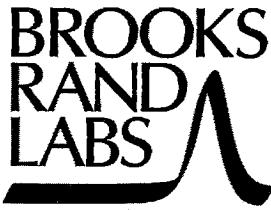
Shipping Containers

Cardboard Box w/ Styro Cooler

Received: August 17, 2012 8:45
Tracking No: 5033 6432 0940 via FedEx
Coolant Type: Ice
Temperature: 2.0 °C

Description: Cardboard Box w/ Styro Coo
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes



3958 6th Avenue NW
 Seattle, WA 98107
 Phone: 206-632-6206
 Fax: 206-632-6017

samples@brooksrand.com
 www.brooksrand.com

Chain of Custody Record

1233038

White: LAB COPY
 Yellow: CUSTOMER COPY

Client: <u>Weber State University</u>	Address: <u>2505 University Circle</u> <u>Ogden, Utah 84408-2505</u>	COC receipt confirmation? Y / N
Contact: <u>Nacole Wilson</u>		If so, by: email / fax (circle one)
Client project ID:	Phone #: <u>801-626-8634</u>	Email:
PO #:		Fax #:

Requested TAT in business days: <input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> Other _____ <i>Surcharges apply for expedited turn around times.</i>	Collection		Miscellaneous				Field Preservation			Analyses required							Comments	
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / ice only	HCl / HNO ₃ (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify) <i>Total Se</i>		Other (specify)
Sample ID																		
1	AIC-Se-201	8/14	8:51	LN	W	1	N	N/A									✓	
2	AIC-Se-202	8/14	8:56	LN	W	1	N	N/A									✓	Duplicate
3	OGBA2-Sed	8/16		LN	S	1	N	N/A									✓	
4	AIC-Sed-2	8/14		LN	S	1	N	N/A									✓	
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: <u>Nacole Wilson</u>	Date: <u>8/16/12</u>	Time: <u>2:25p</u>	Relinquished by:	Date:	Time:
Received by: <u>Kathy Z Rhodes</u>	Date: <u>8-16-12</u>	Time: <u>2:45pm</u>	Received at BRL by: <u>[Signature]</u>	Date: <u>8/17/12</u>	Time: <u>0845</u>
Shipping carrier: <u>J</u>	# of coolers:	BRL work order ID:	BRL project ID:		

Brooks Rand Labs

1200682

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	
1200682-IBL1	1200682	QC	1		-			
1200682-IBL2	1200682	QC	2		-			
1200682-IBL3	1200682	QC	3		-			
1200682-IBL4	1200682	QC	4		-			
1200682-CAL1	1200682	QC	5	1232058	-			
1200682-CAL2	1200682	QC	6	1232059	-			
1200682-CAL3	1200682	QC	7	1232060	-			
1200682-CAL4	1200682	QC	8	1232061	-			
1200682-CAL5	1200682	QC	9	1232062	-			
1200682-ICV1	1200682	QC	10	1232064	-			
B121582-SRM1	B121582	QC	11		-			
1200682-CCV1	1200682	QC	12	1232063	-			
B121582-BLK1	B121582	QC	13		-			
1200682-CCB1	1200682	QC	14		-			
B121582-BLK2	B121582	QC	15		-			
B121582-BLK3	B121582	QC	16		-			
B121582-BLK4	B121582	QC	17		-			
1200682-ICB1	1200682	QC	18		-			
1235006-02	B121582	Hg-W-BrCl-CVAFS-TR	19			DUK-HV1201	9/10/2012	
1235006-04	B121582	Hg-W-BrCl-CVAFS-TR	20			DUK-HV1201	9/10/2012	
1235006-03	B121582	Hg-W-BrCl-CVAFS-TR	21			DUK-HV1201	9/10/2012	
1233038-01	B121582	Hg-W-BrCl-CVAFS-TR	22			UDE-SL1201	10/2/2012	
1233038-08	B121582	Hg-W-BrCl-CVAFS-TR	23			UDE-SL1201	10/2/2012	
1234035-12	B121582	Hg-W-BrCl-CVAFS-TR	24			E2C-EM1201	9/19/2012	
1233033-01	B121582	Hg-W-BrCl-CVAFS-TR	25			ENV-SS1201	9/10/2012	
1235034-01	B121582	Hg-W-BrCl-CVAFS-TR	26			SES-KM1201	9/7/2012	FGD
1233038-02	B121582	Hg-W-BrCl-CVAFS-TR	27			UDE-SL1201	10/2/2012	
1233038-09	B121582	Hg-W-BrCl-CVAFS-TR	28			UDE-SL1201	10/2/2012	
1234035-25	B121582	Hg-W-BrCl-CVAFS-TR	29			E2C-EM1201	9/19/2012	
1234035-28	B121582	Hg-W-BrCl-CVAFS-TR	30			E2C-EM1201	9/19/2012	
1235004-01	B121582	Hg-W-BrCl-CVAFS-TR	31			SES-KM1201	8/31/2012	FGD
1200682-CCB2	1200682	QC	32		-			
B121582-MS1	B121582	QC	33		1235006-03			
1200682-CCB3	1200682	QC	34		-			
1200682-CCB4	1200682	QC	35		-			
1200682-CCB5	1200682	QC	36		-			
1234035-12RE1	B121582	Hg-W-BrCl-CVAFS-TR	37			E2C-EM1201	9/19/2012	Added 9/4

Brooks Rand Labs

1200682

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	
B121582-MSD1	B121582	QC	38		1235006-03			
B121582-MS2	B121582	QC	39		1233033-01			
1200682-CCB6	1200682	QC	40		-			
1235034-01RE1	B121582	Hg-W-BrCl-CVAFS-TR	41			SES-KM1201	9/7/2012	Added 9/4
B121582-MSD2	B121582	QC	42		1233033-01			
1233038-02RE1	B121582	Hg-W-BrCl-CVAFS-TR	43			UDE-SL1201	10/2/2012	Added 9/4
1235004-03	B121582	Hg-W-BrCl-CVAFS-TR	44			SES-KM1201	8/31/2012	FGD
1233038-09RE1	B121582	Hg-W-BrCl-CVAFS-TR	45			UDE-SL1201	10/2/2012	Added 9/4
B121582-MS3	B121582	QC	46		1234035-25			
B121582-MSD3	B121582	QC	47		1234035-25			
1234035-28RE1	B121582	Hg-W-BrCl-CVAFS-TR	48			E2C-EM1201	9/19/2012	Added 9/4
1235004-01RE1	B121582	Hg-W-BrCl-CVAFS-TR	49			SES-KM1201	8/31/2012	Added 9/4
1233038-01RE1	B121582	Hg-W-BrCl-CVAFS-TR	50			UDE-SL1201	10/2/2012	Added 9/4
1200682-CCV2	1200682	QC	51	1232063	-			
1235034-03	B121582	Hg-W-BrCl-CVAFS-TR	52			SES-KM1201	9/7/2012	FGD
1235034-05	B121582	Hg-W-BrCl-CVAFS-TR	53			SES-KM1201	9/7/2012	FGD
1235034-07	B121582	Hg-W-BrCl-CVAFS-TR	54			SES-KM1201	9/7/2012	FGD
1235034-09	B121582	Hg-W-BrCl-CVAFS-TR	55			SES-KM1201	9/7/2012	FGD
1235034-11	B121582	Hg-W-BrCl-CVAFS-TR	56			SES-KM1201	9/7/2012	FGD
1235034-13	B121582	Hg-W-BrCl-CVAFS-TR	57			SES-KM1201	9/7/2012	FGD
1235034-15	B121582	Hg-W-BrCl-CVAFS-TR	58			SES-KM1201	9/7/2012	FGD
1233038-03	B121582	Hg-W-BrCl-CVAFS-TR	59			UDE-SL1201	10/2/2012	
1233038-10	B121582	Hg-W-BrCl-CVAFS-TR	60			UDE-SL1201	10/2/2012	
1233033-02	B121582	Hg-W-BrCl-CVAFS-TR	61			ENV-SS1201	9/10/2012	
1200682-CCV3	1200682	QC	62	1232063	-			
1233033-03	B121582	Hg-W-BrCl-CVAFS-TR	63			ENV-SS1201	9/10/2012	
1235006-01	B121582	Hg-W-BrCl-CVAFS-TR	64			DUK-HV1201	9/10/2012	
1200682-CCV4	1200682	QC	65	1229079	-			

SOP(s) / Rev#(s): 0000-004e

Hg Analysis Sheet : T-Hg Other: _____

Sequence: ^{MH 9.7.12} ~~1230~~ 120682 Batch(es): B121582

Analyst: MCH Date: 9.4.12 Instrument ID: T-Hg-05

10ng/mL std ID: 1232056 1ng/mL std ID: 1232055 ICV std ID: 1233012

NH₂OH·HCl #: 1235001 SnCl₂ #: 123354

Initial offset: 10,000 Initial PMT: 496.0 Trap Serial #: 12152

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
1	1	25	1	SEQ-IBL1	---		
2	2	26	2	SEQ-IBL2	---		
3	3	27	3	SEQ-IBL3	---		
4	4	28	4	SEQ-IBL4	---		
5	1	29	1	SEQ-CAL1	0.025		1ng/mL
6	2	30	2	SEQ-CAL2	0.100		1ng/mL
7	3	31	3	SEQ-CAL3	0.050		10ng/mL
8	4	32	4	SEQ-CAL4	0.250		10ng/mL
9	1	33	1	SEQ-CAL5	1.00		10ng/mL
10	2	34	2	SEQ-ICV1	1.00		NIST 1641d
11	3	35	3	SEQ-CCV	0.050		10ng/mL
12	4	36	4	B121582-BKF1	100.62		
13	1	25	1	SEQ-CCB1	---		
14	2	26	2	B121582-BKF2	99.42		
15	3	27	3	↓ -BLK3	100.34		
16	4	28	4	↓ -BLK4	99.76		
17	1	29	1	SEQ-ICB	99.76		
18	2	30	2	1235006-02	99.41		
19	3	31	3	↓ -04	100.40		UGLY REAL: FRANK SAID OK
20	4	32	4	↓ -03	10.87		
21	1	33	1	1233038-01	99.56		UGLY PART: WILL REVIEW
22	2	34	2	↓ -08	99.94		
23	3	35	3	1234035-12	100.00 49.97		OVER CAL: WILL REVIEW
24	4	36	4	1233033-01	99.36		

Comments: _____

Balance ID: BL-01

SOP(s) / Rev#(s): 0006-007e

Hg Analysis Sheet **(T-Hg)** / Other: _____

Page 2 of 3

Sequence: 1200682

Analyst: MLH

Date: 7.4.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
25	1	25	1	1235034-01	1.00		OVERGL: WILL KERN
26	2	26	2	1233038-02			NON DETECT: WILL KERN
27	3	27	3	↓ -09			HIGH BUBBLER: WILL KERN
28	4	28	4	1234035-25			
29	1	29	1	↓ -25	1.00		IN HIGH BUBBLER: WILL KERN
30	2	30	2	1235004-01	1.00		OVER GL: WILL KERN
31	3	31	3	SEQ-CCB2	—		
32	4	32	4	B121582-MS1	20.01		NATIVE: 1235006-03 + 1100 (1100 μL of 10 ng/mL)
33	1	33	1	SEQ-CCB3	—		
34	2	34	2	1233038-01 RE1	100.10	M# 9.4.12	SEQ-CCB4 —
35	3	36	3	SEQ-CCB4/5	—		
36	4	15	4	1234035-12 RE1	0.100		
37	1	16	1	B121582-MSD1	20.50		NATIVE: 1235006-03 + 1100 (1100 μL of 10 ng/mL)
38	2	17	2	↓ -MS2	99.69		NATIVE: 1233033-01 + 4700 (4700 μL of 10 ng/mL)
39	3	28	3	SEQ-CCB6	—		
40	4	29	4	1235034-01 RE1	0.100		
41	1	30	1	B121582-MSD2	100.60		NATIVE: 1233033-01 + 4700 (4700 μL of 10 ng/mL)
43	3	312	3	1235004-03	0.100		TRAP 32
42	2	321	2	1233038-02 RE1	10.00		↓ 31
44	4	33	4	↓ -09 RE1	↓		
45	1	34	1	B121582-MS3	1.00		NATIVE: 1234035-25 + 6000 (6000 μL of 10 ng/mL)
46	2	36	2	↓ ^{M# 9.4.12} MS3	1.00		↓
47	3	25	3	1234035-25 RE1	1.00		
48	4	26	4	1235004-01 RE1	0.100		
49	1	27	1	1233038-01 RE1	99.59		
50	2	28	2	SEQ-CCV	0.050		10 ng/mL
51	3	29	3	1235034-63	0.100		
52	4	30	4	↓ -05	0.100		
53	1	31	1	1235034-07	0.100		
54	2	32	2	↓ -09			
55	3	33	3	↓ -11			
56	4	34	4	↓ -13			

Comments: _____

SOP(s) / Rev#(s): 0006-007e

Hg Analysis Sheet : (T-Hg) Other: _____

Page 3 of 3

Sequence: 1200682 Analyst: MCH Date: 9.4.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
57	1	30	1	1235034-15	0.100		
58	2	25	2	1233038-03	10.00		
59	3	26	3	1 -10	10.00		
60	4	27	4	1233033-02	99.36		
61	1	28	1	SEQ-CCV	0.050		10ng/mL
62	2	29	2	1233033-03	100.64		
63	3	30	3	1235006-01	5.00		
64	4	31	4	SEQ-CCV	0.050		10ng/mL
 <div data-bbox="584 1071 779 1218" data-label="Text"> <p>MCH 9.4.12</p> </div> 							

Comments: _____

Brooks Rand Labs

THg Water Prep Benchsheet
SOP / Rev #: BR-0006 Rev note

BRL Report 1233038

Prepped By: IRJ Batch: B121582

Prep Start Date/Time*: 9-3-12/14:10 BrCl ID: 1231015

1st - 24 hr Check Date/Time: 9:15 9-4-12

Prep End Date/Time**: 9-3-12/14:30

2nd - 24 hr Check Date/Time:

* Time when the first reagents are added.
** Time when the last sample is brought up to volume.

Sample ID	Sample Aliquot (mL)	BrCl added (mL)	%BrCl	24 hr Check (initials)	only fill out if additional BrCl is added		
					Additional BrCl Added (mL)	2nd - 24 hr Check (initials)	Adjusted %BrCl
1233033-01	450	22.5	5	Mult			
1233033-02	↓	② 4.5	1				
1233033-03	475	4.75	↓				
1233038-01	500	5	↓				
1233038-02	↓	10	2				
1233038-03	↓	↓	↓				
1233038-08	375	3.75	1				
1233038-09	500	25	5				some minimal sediment ↓
1233038-10	↓	↓	↓				
1234035-12	250	2.5	1				
1234035-25	↓	↓	↓				
1234035-28	↓	↓	↓				
* 1235004-01	300	IRJ 9-3-12	IRJ 9-4-12				
* 1235004-03	275	13.75	500				- black sediment
1235006-01	250	2.5	1				
1235006-02	↓	↓	↓				
1235006-03	↓	5	2				
1235006-04	↓	2.5	1				
* 1235034-01	700	IRJ 9-4-12					
1235034-03	↓						
1235034-05	800						
1235034-07	700						
1235034-09	750						
1235034-11	800						
1235034-13	700						
1235034-15	750						
B121582-BLK1	250	2.5	1				
B121582-BLK2	↓	↓	↓				
B121582-BLK3	↓	↓	↓				
B121582-BLK4	↓	↓	↓				
* BPS Prep BLK	↓	↓	↓				

IRJ 9-3-12

some minimal sediment ↓

- black sediment

Oven ID: DV-06
Date/Time in: 9-3-12/14:35
Date/Time out: Time: 4 hrs

Thermometer ID: PL-12
Oven Temp (measured / corrected): 66 / 66
Oven Temp (measured / corrected): - / -

NOTES:

- 1233033-01 B had a good amount of brown sediment

* Samples underwent BPS where BrCl was added @ 1% by volume. These were tested w/ potassium iodide paper and BrCl was added only where noted.

- 1235004-03 was also tested after BrCl addition, showing enough excess BrCl was added

① Total % BrCl added is 6%. IRJ 9-4-12

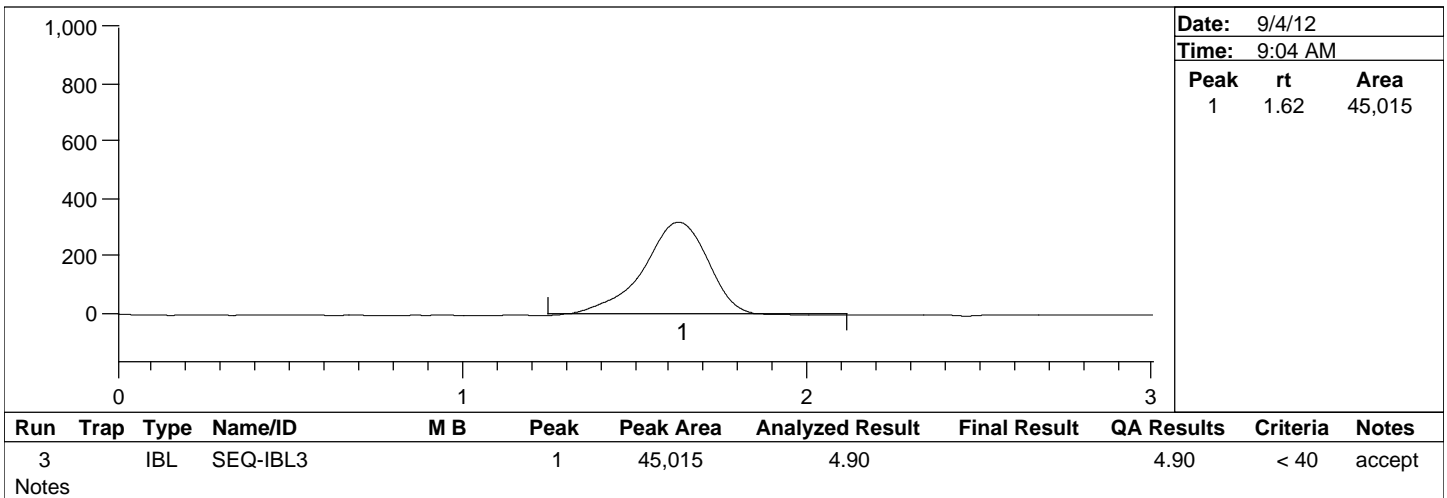
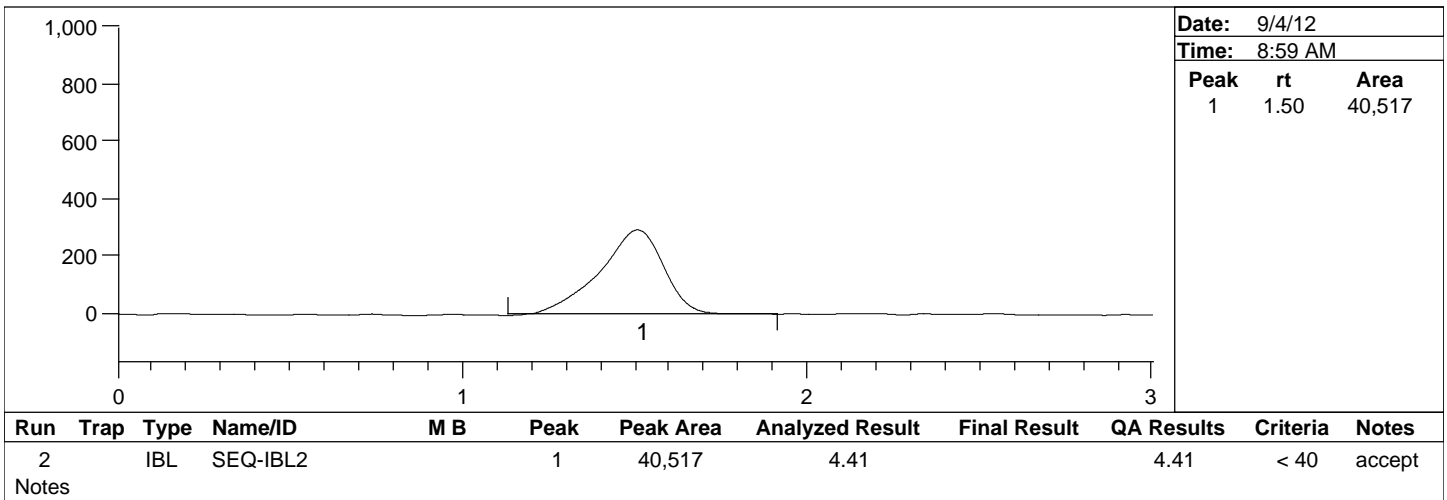
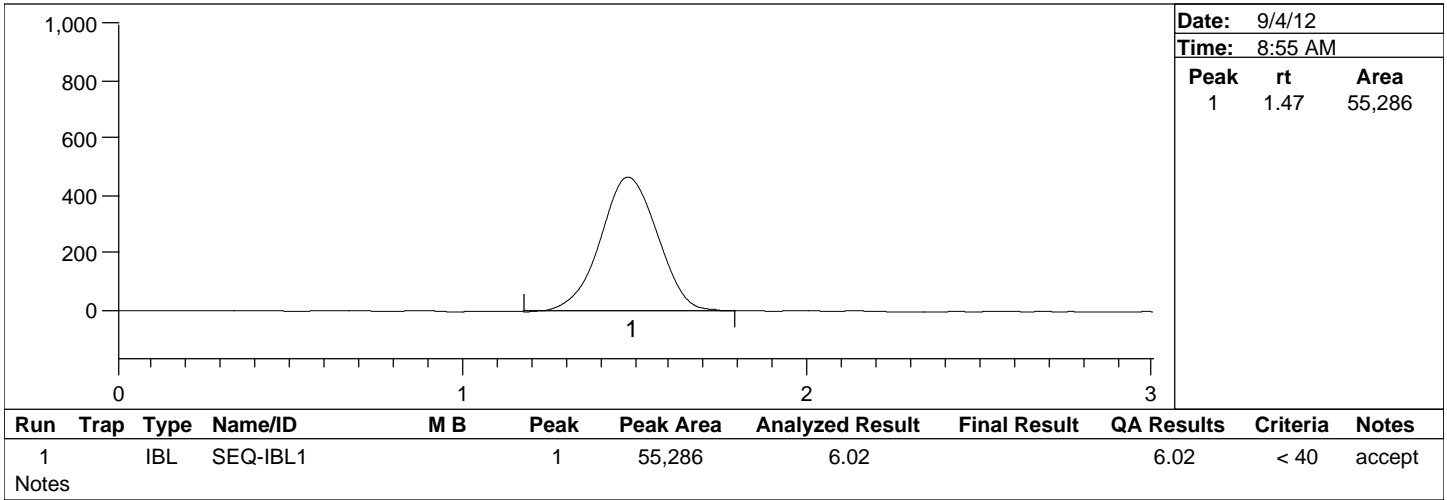
② Uncertainty in amount of BrCl added, not noticed until the day after prep. The corrected amount of 4.5ml (1%) was probably added but it could be up to 22.5ml (5%) IRJ 9-4-12

Peak Report

Batch Number: B121582
 Method Number: CVAFS BR-0006

Project Number(s): 1200682
 Instrument ID: THG-05

Date Analyzed: 9/4/12
 Analyst Name: MLH

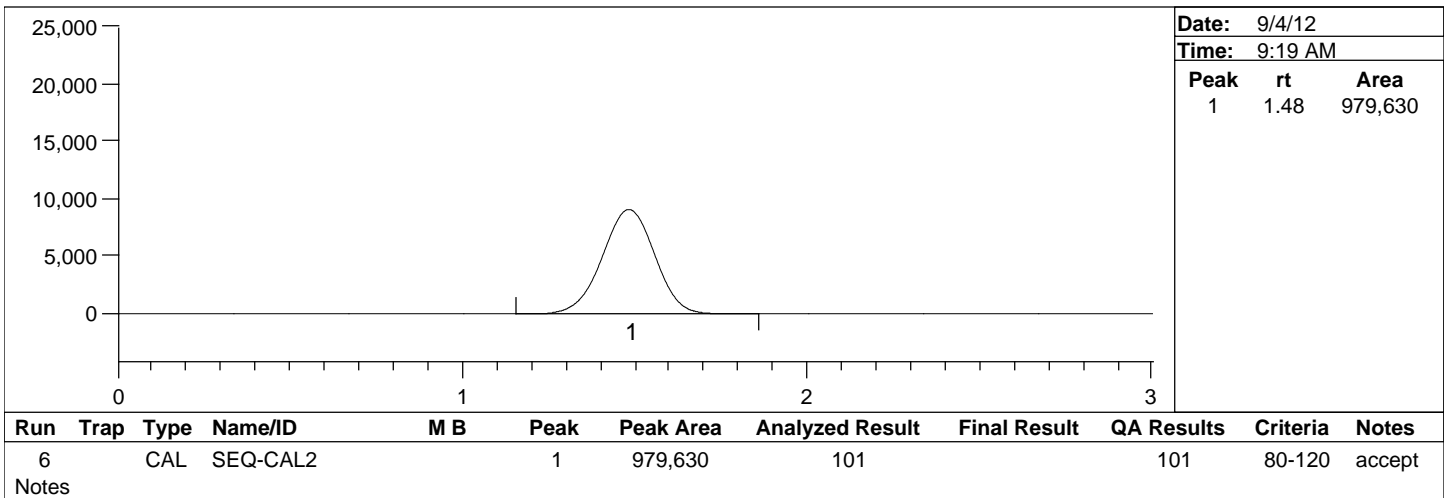
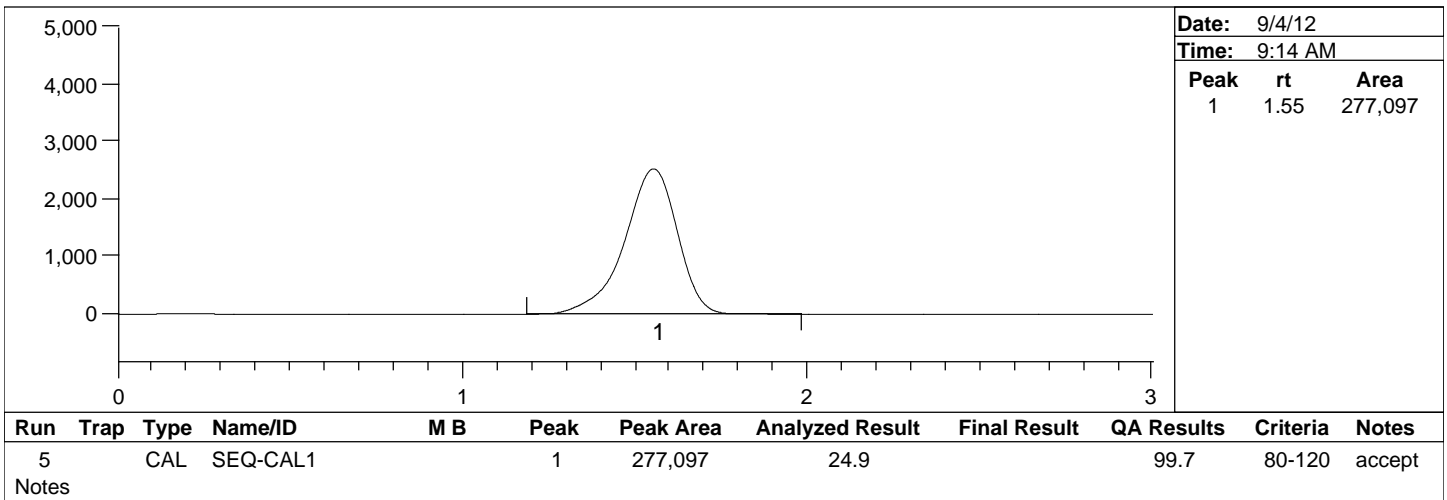
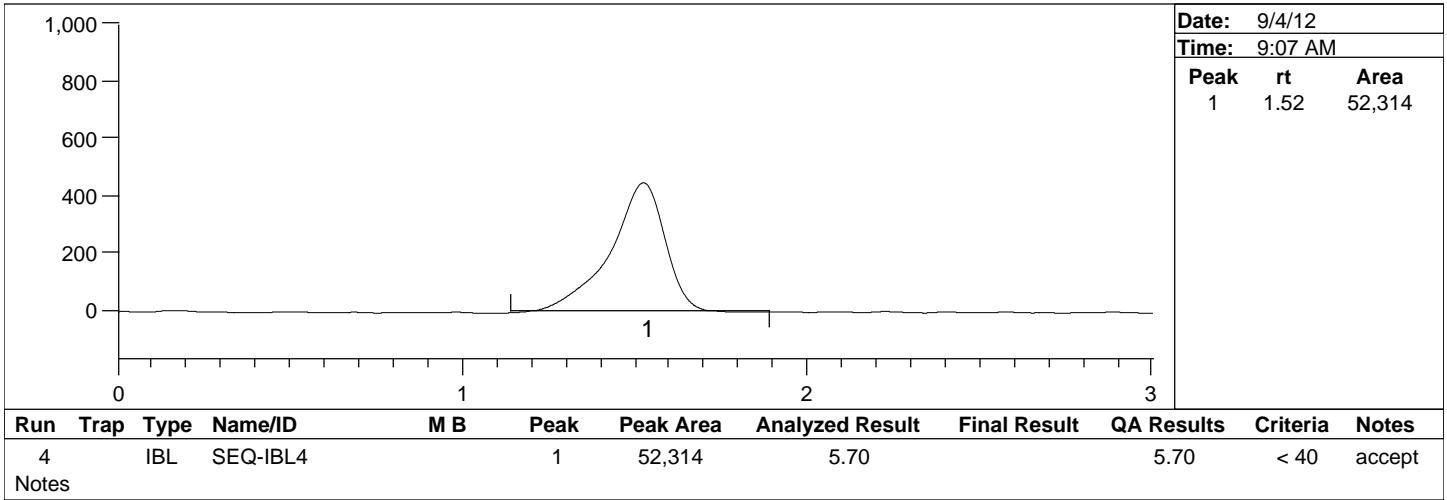


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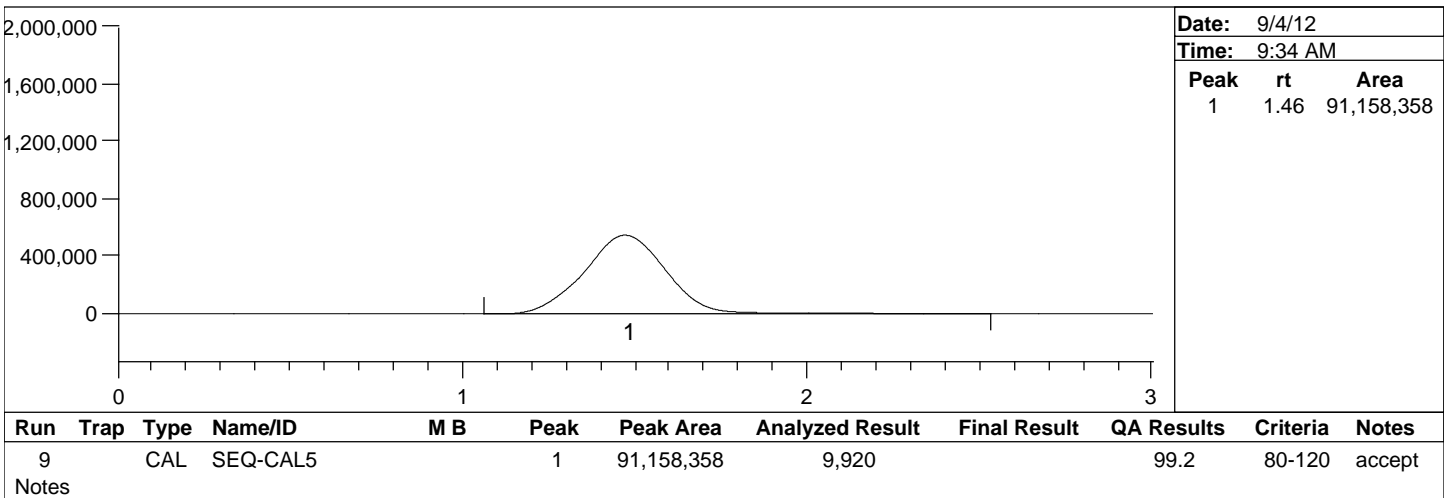
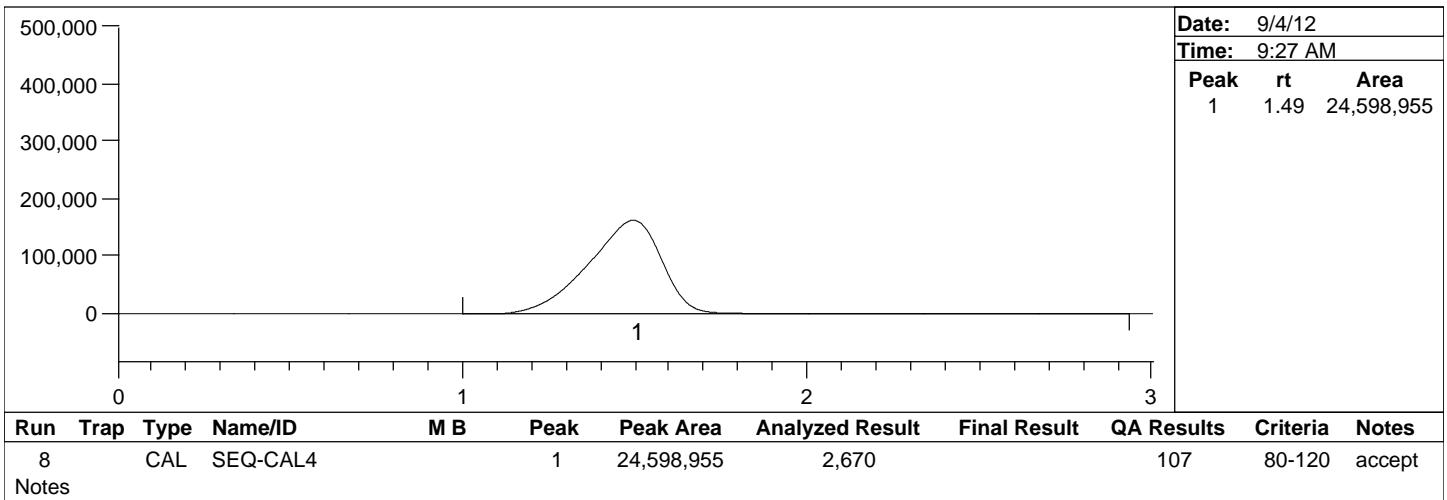
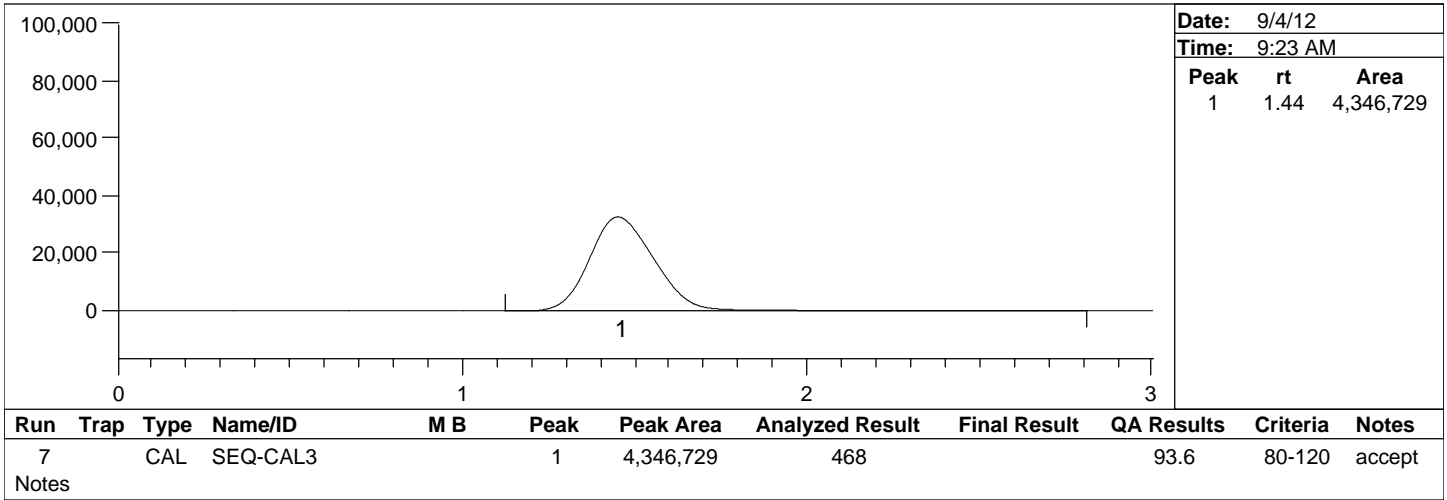


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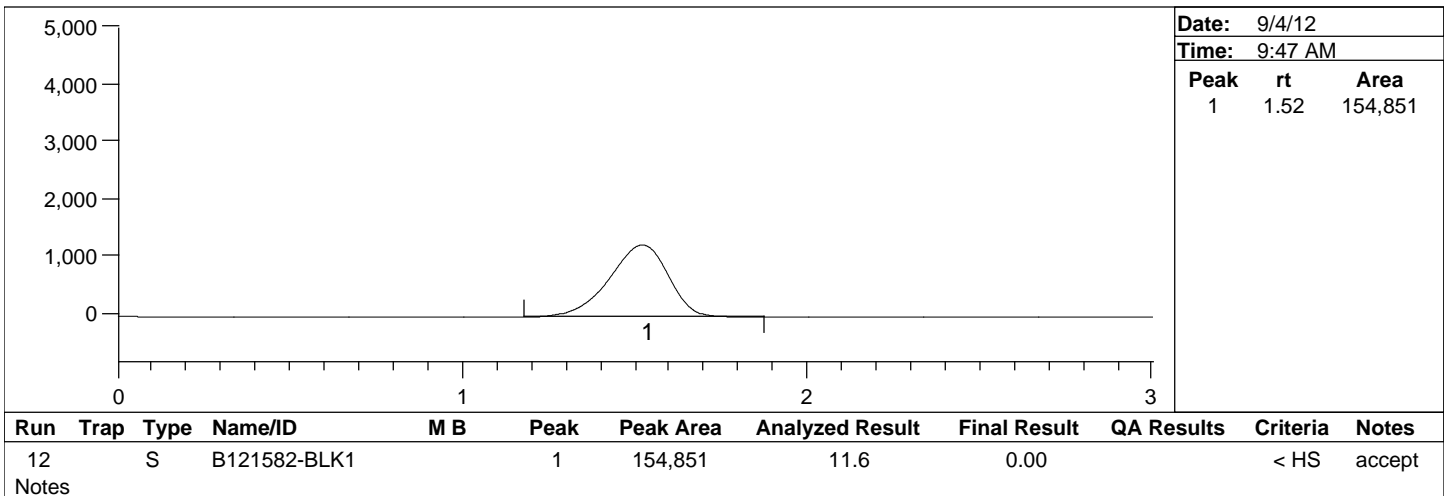
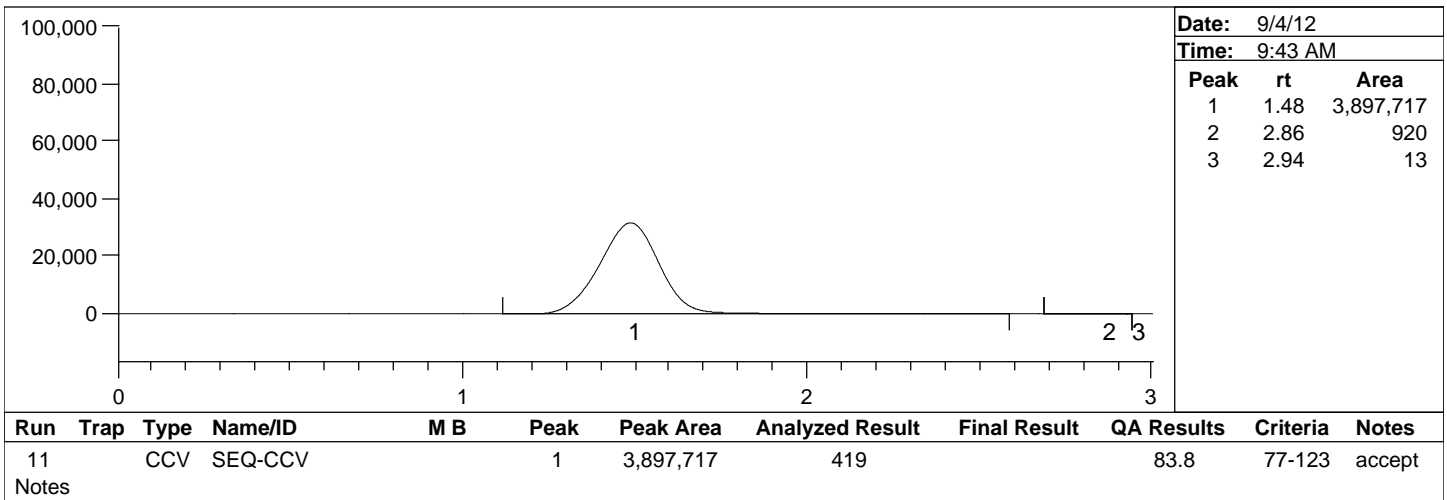
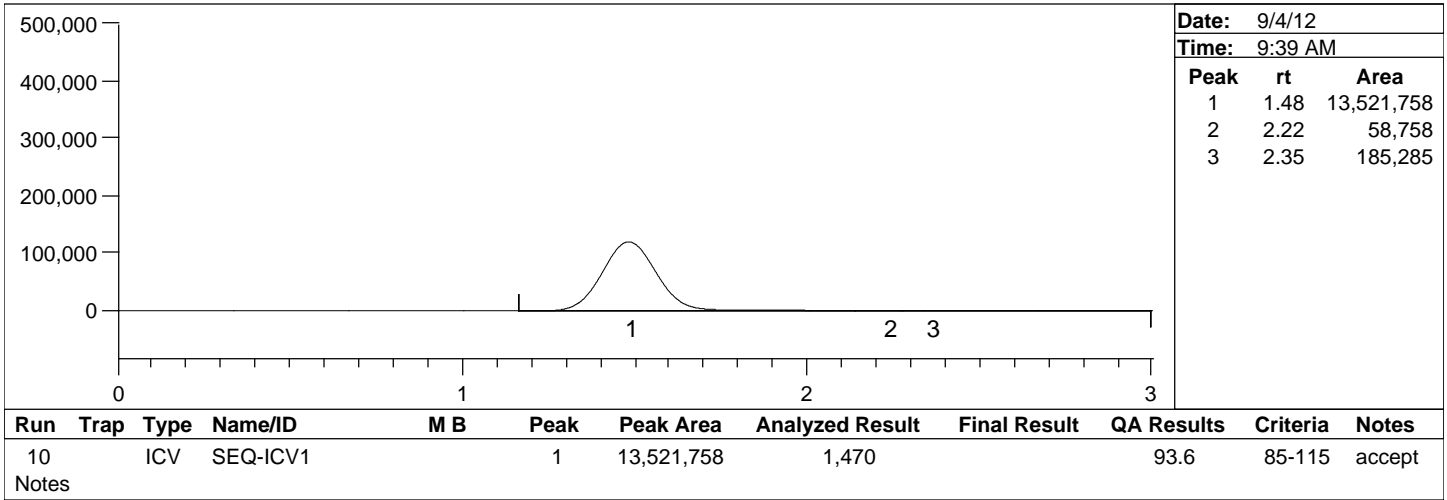


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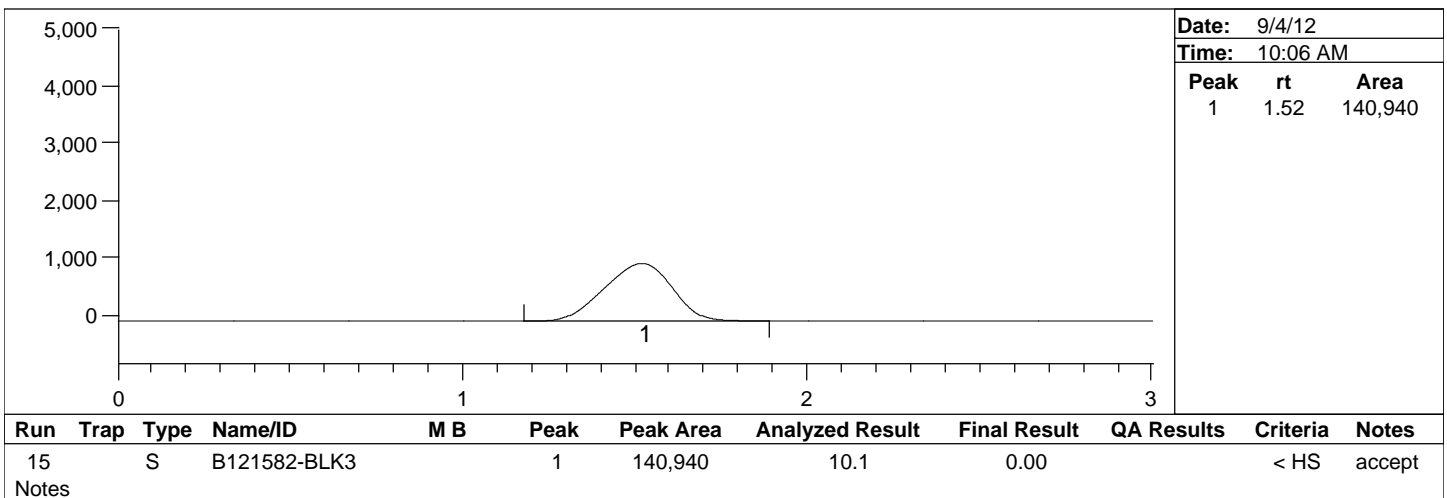
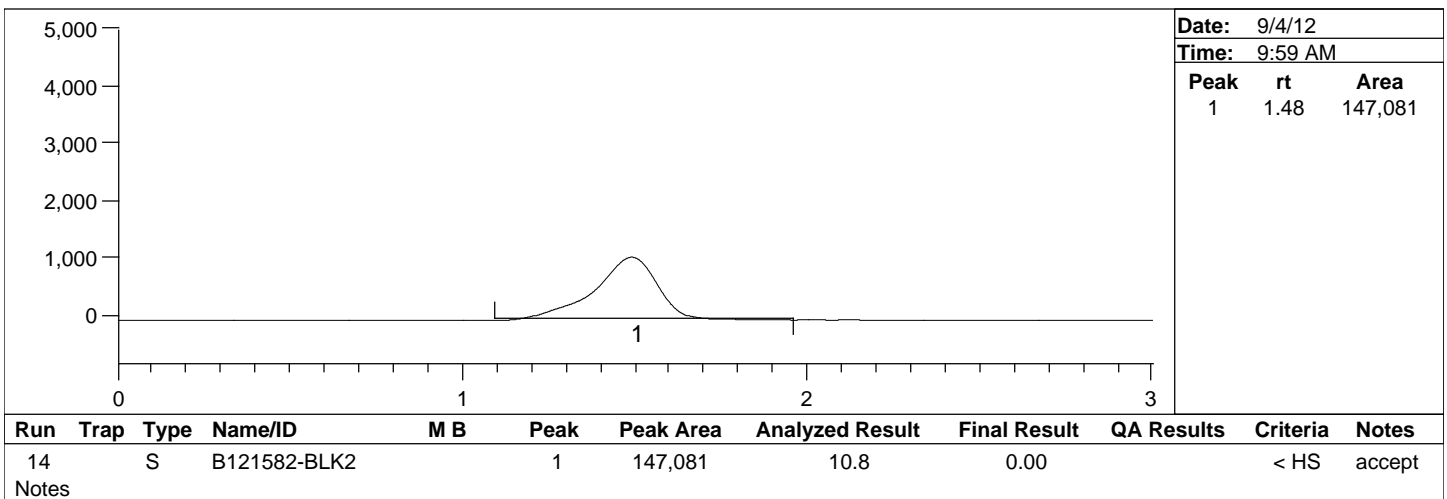
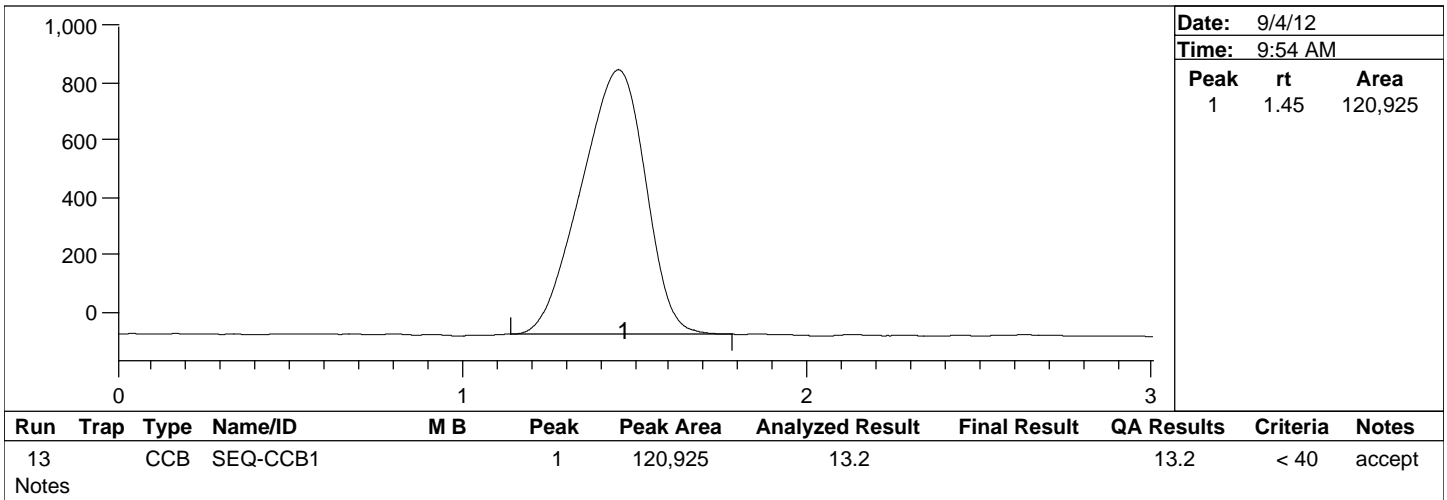


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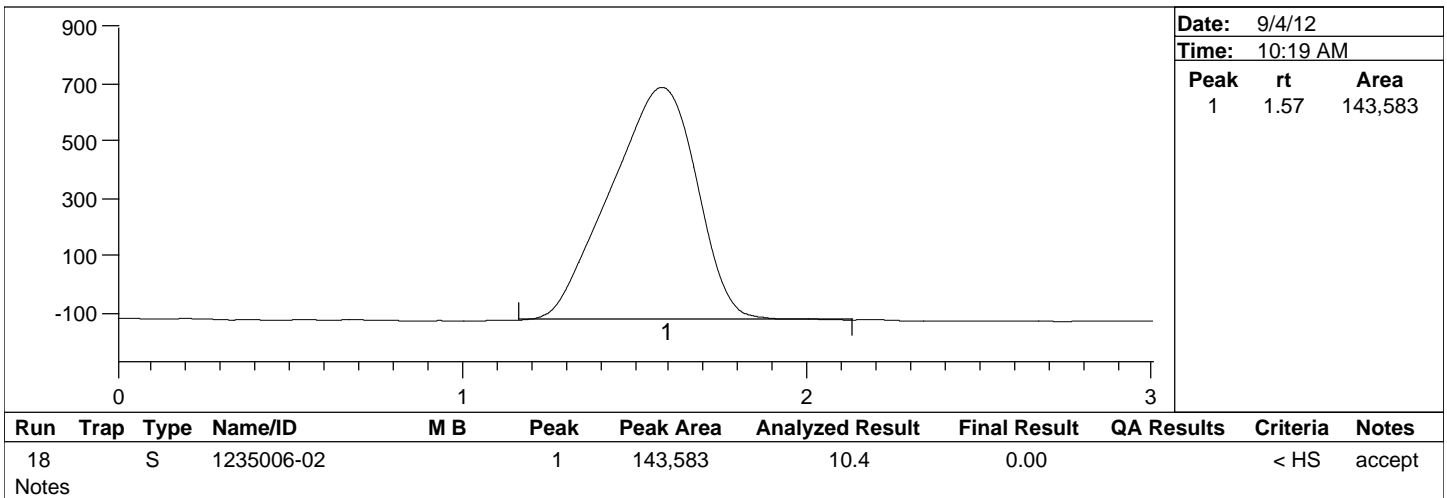
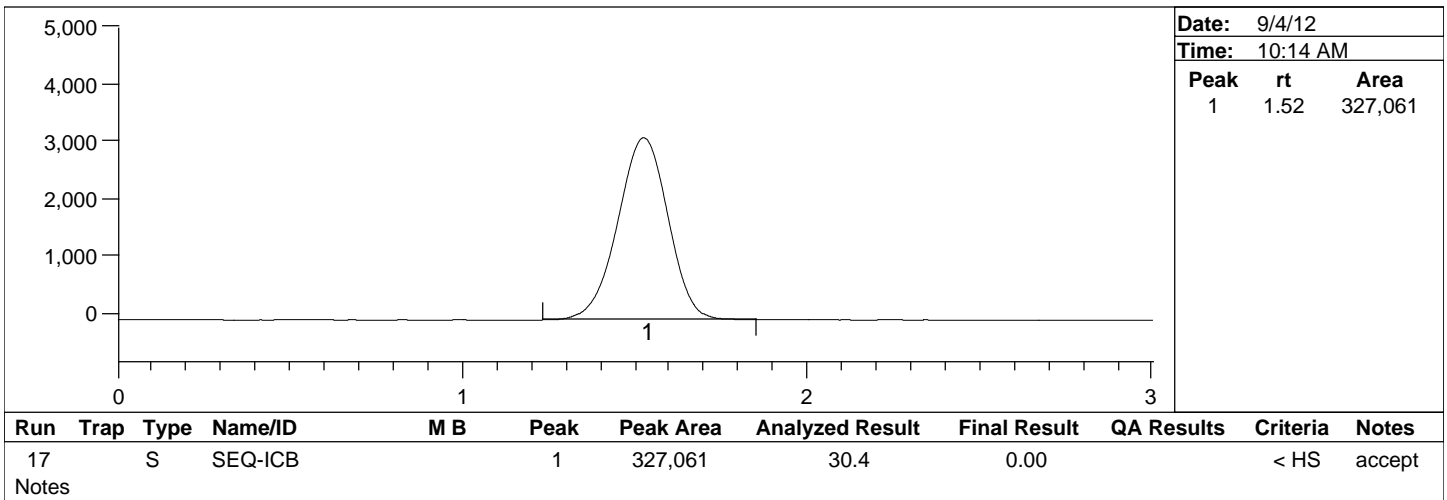
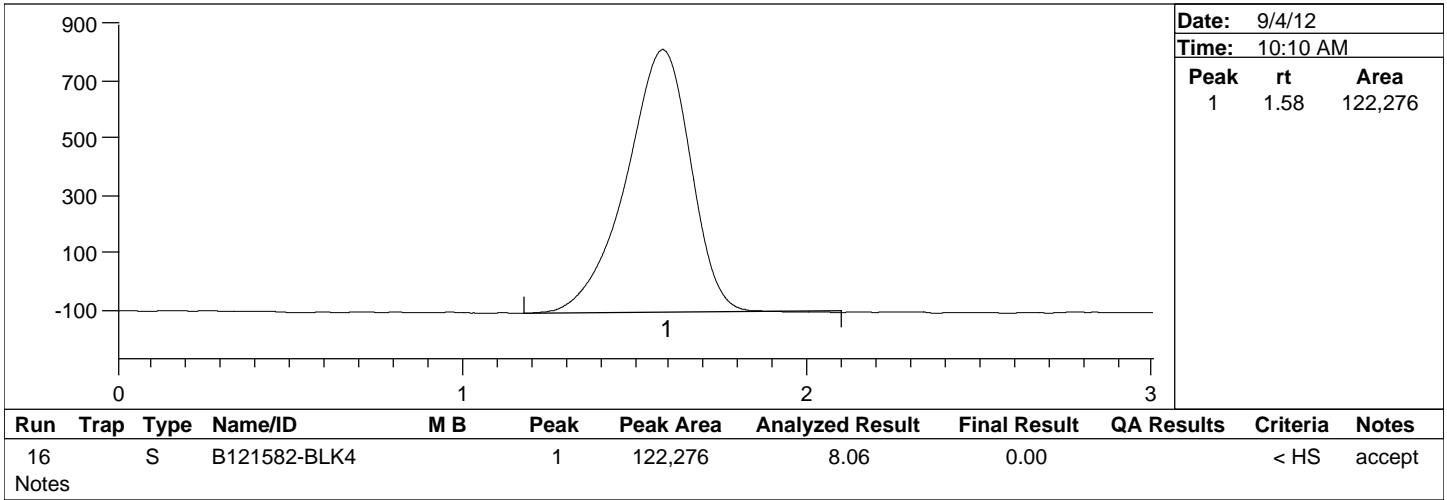


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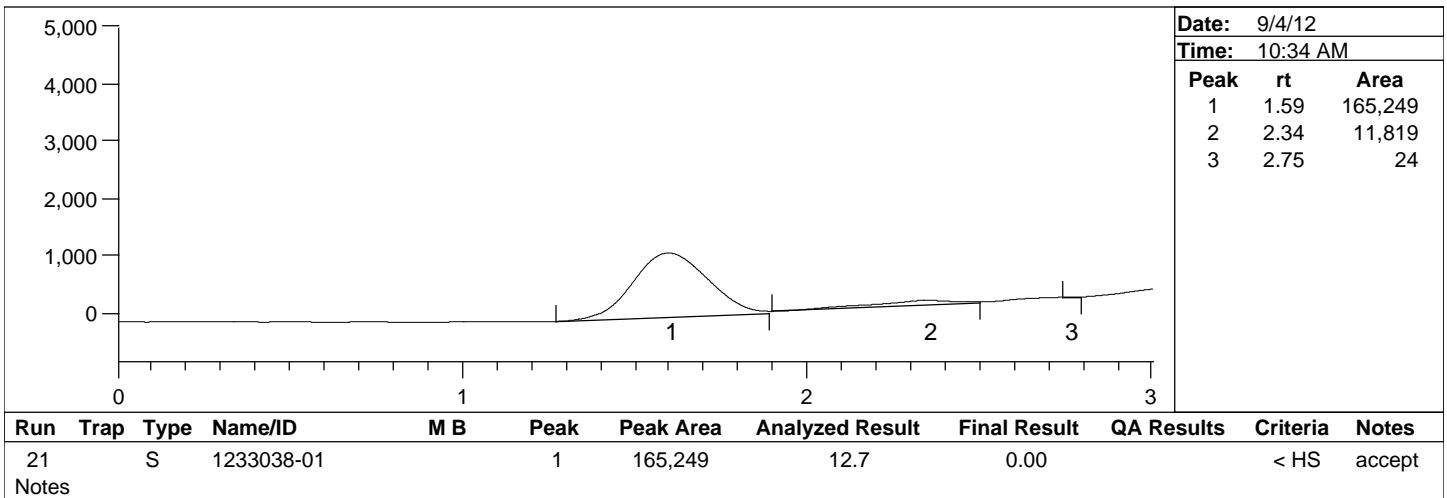
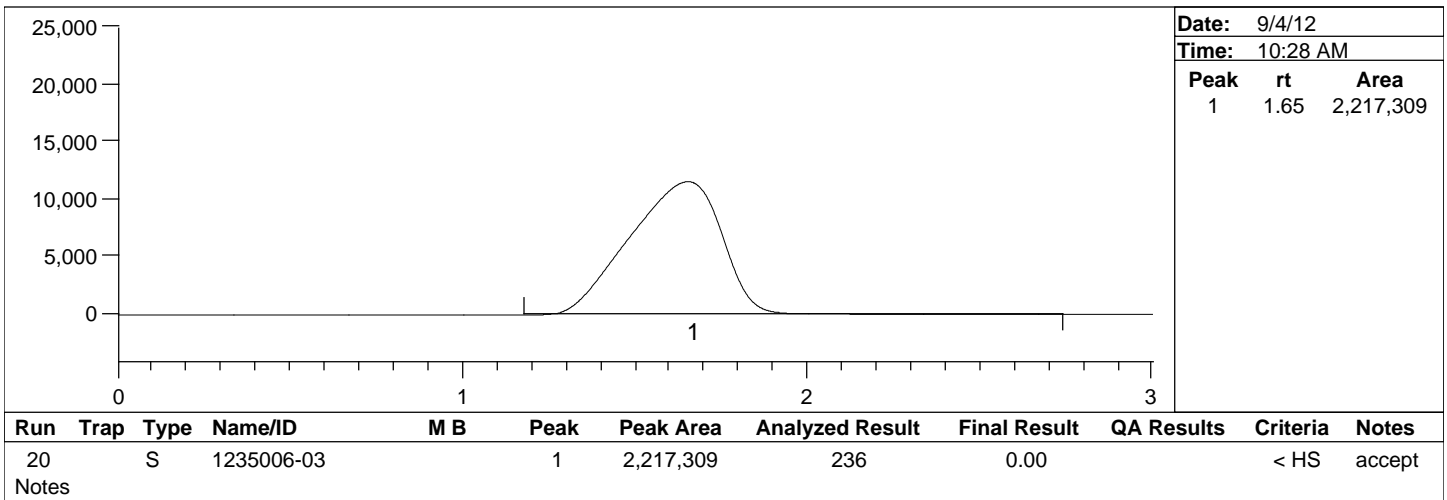
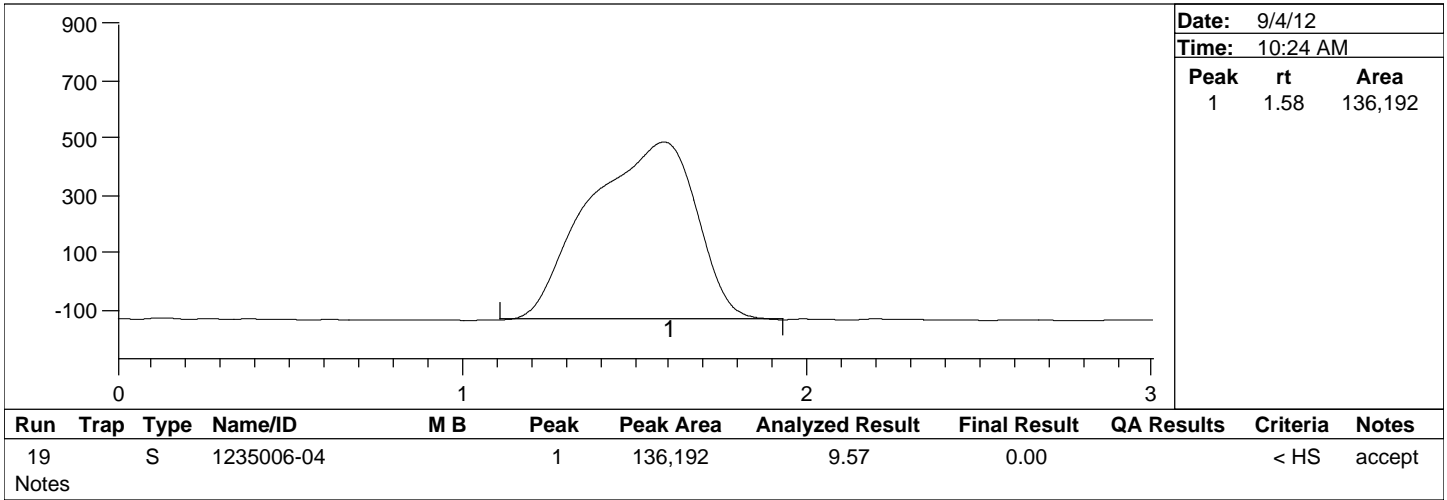


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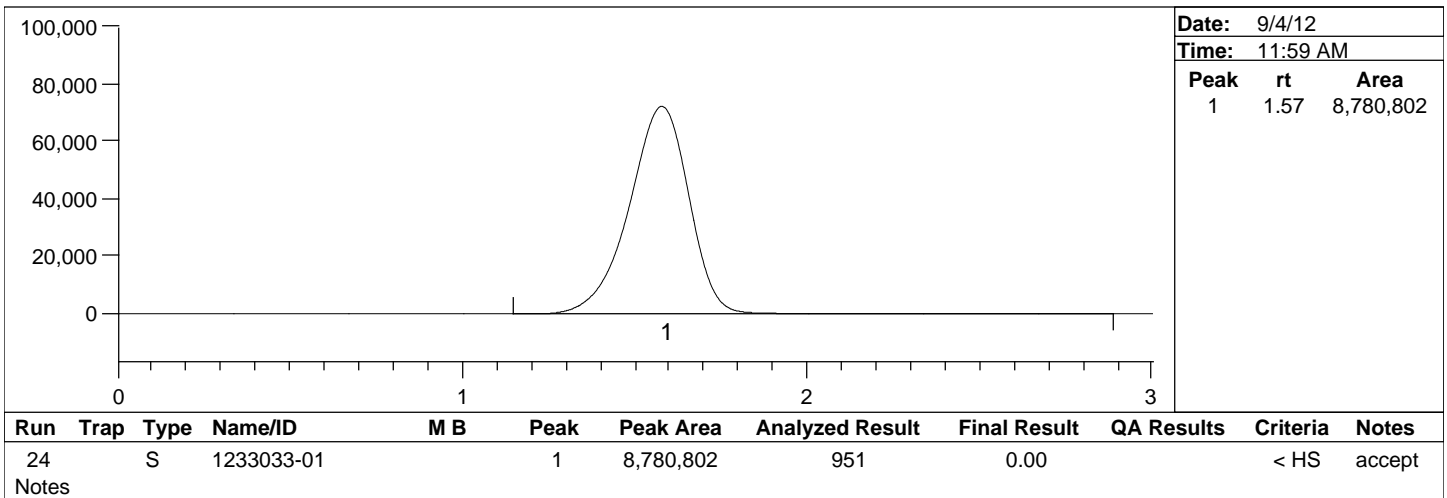
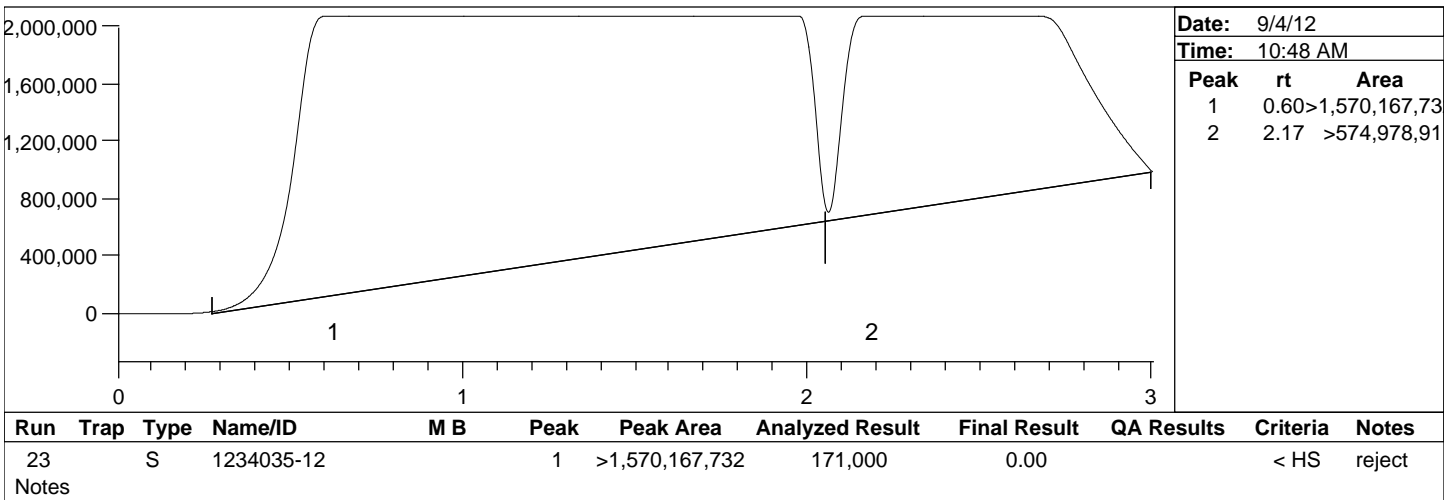
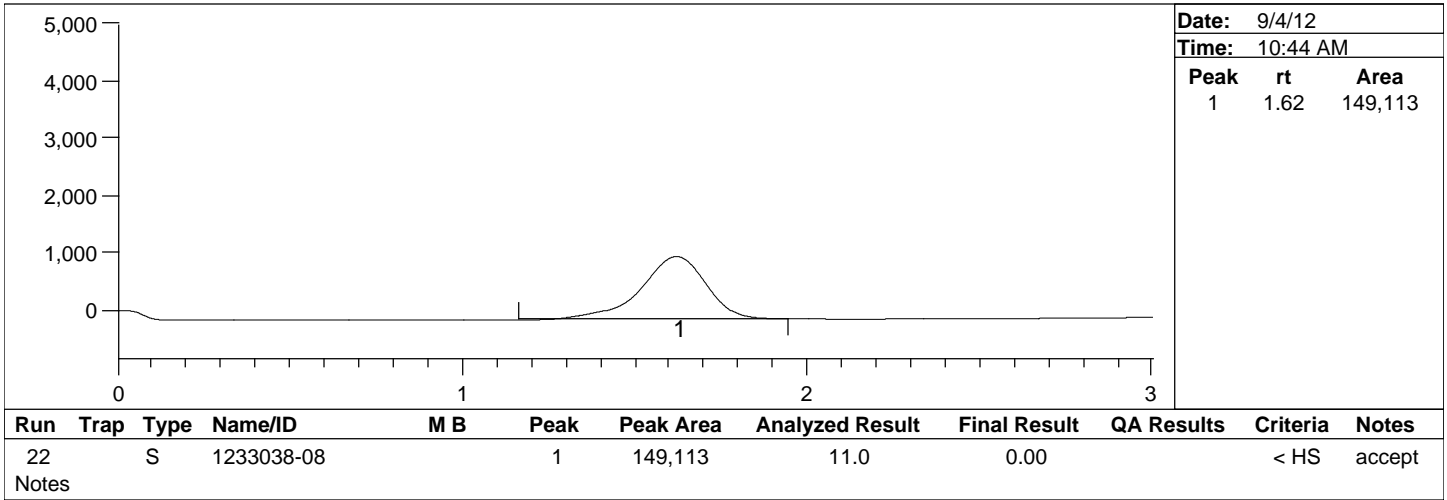


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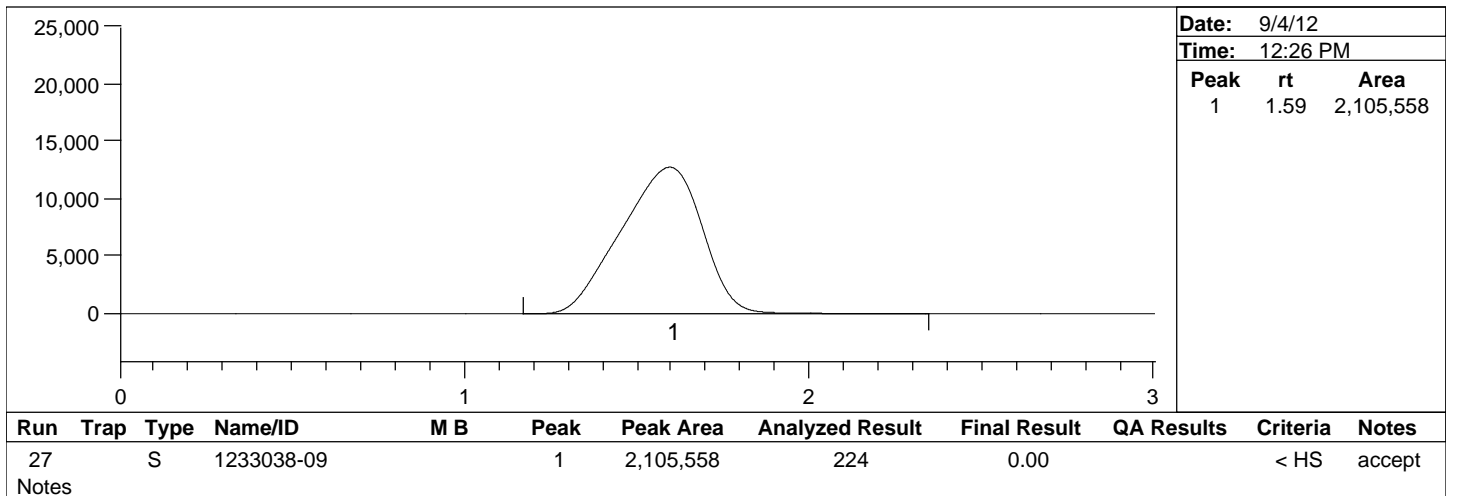
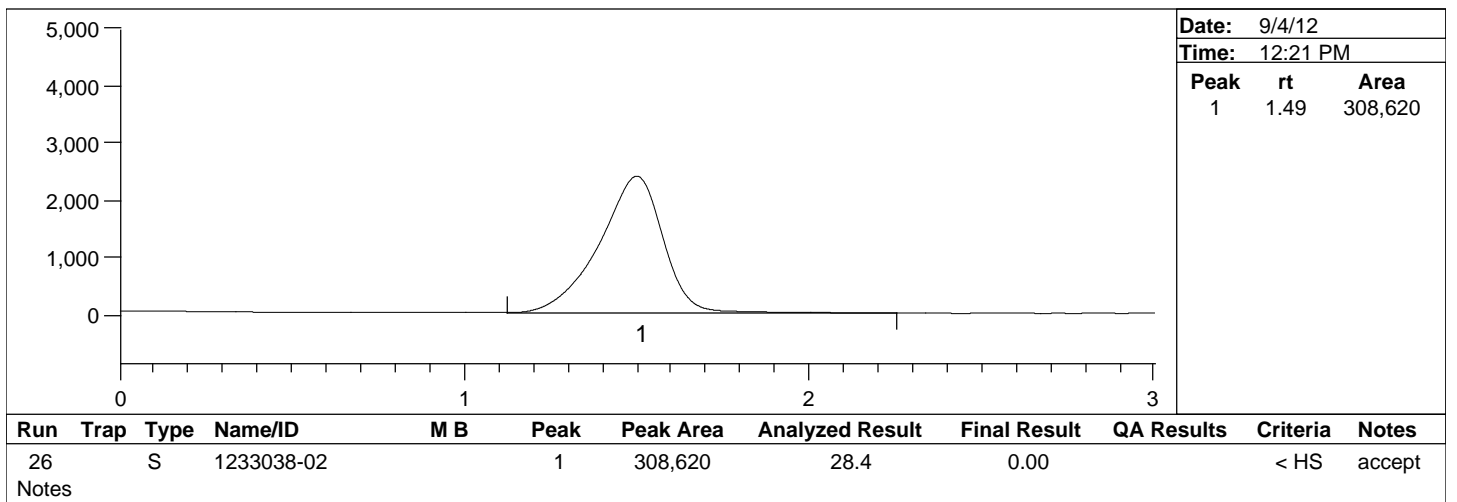
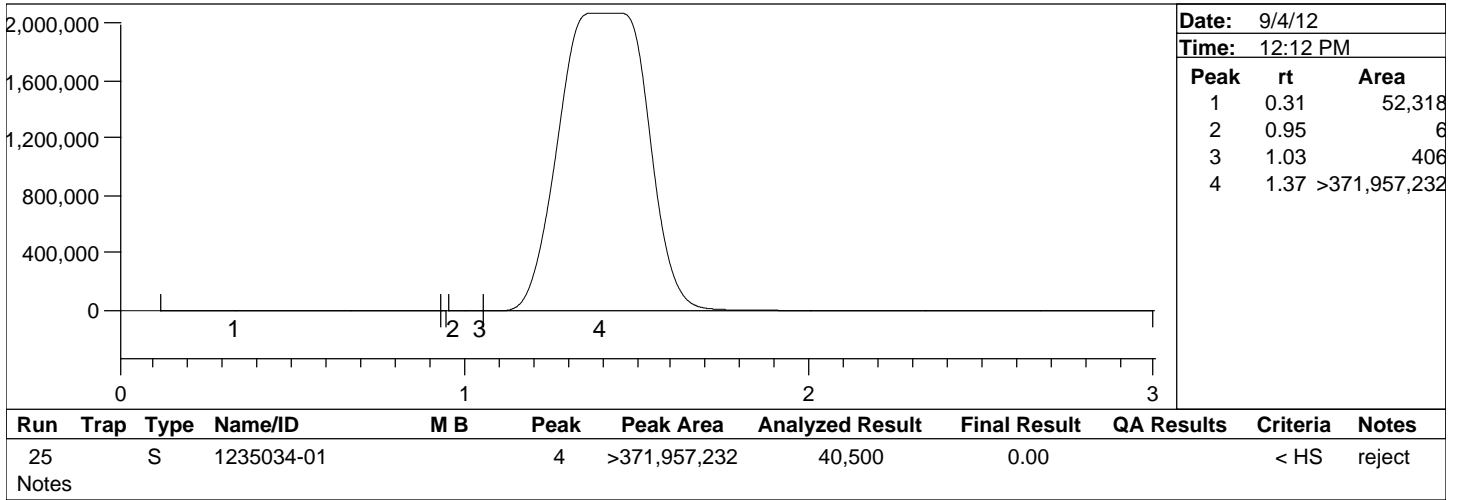


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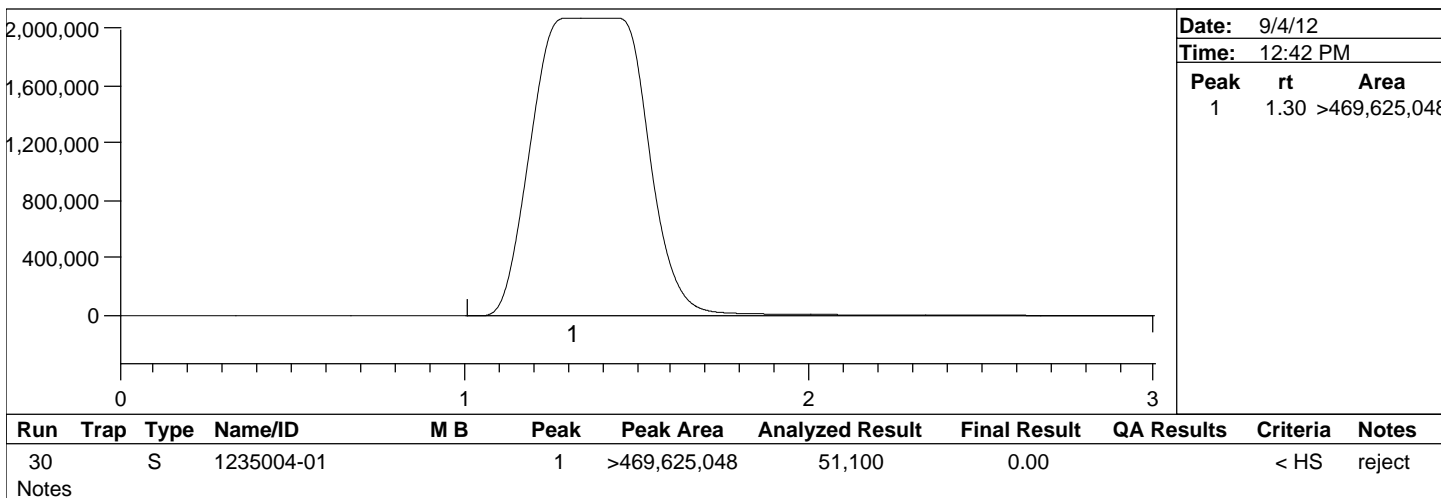
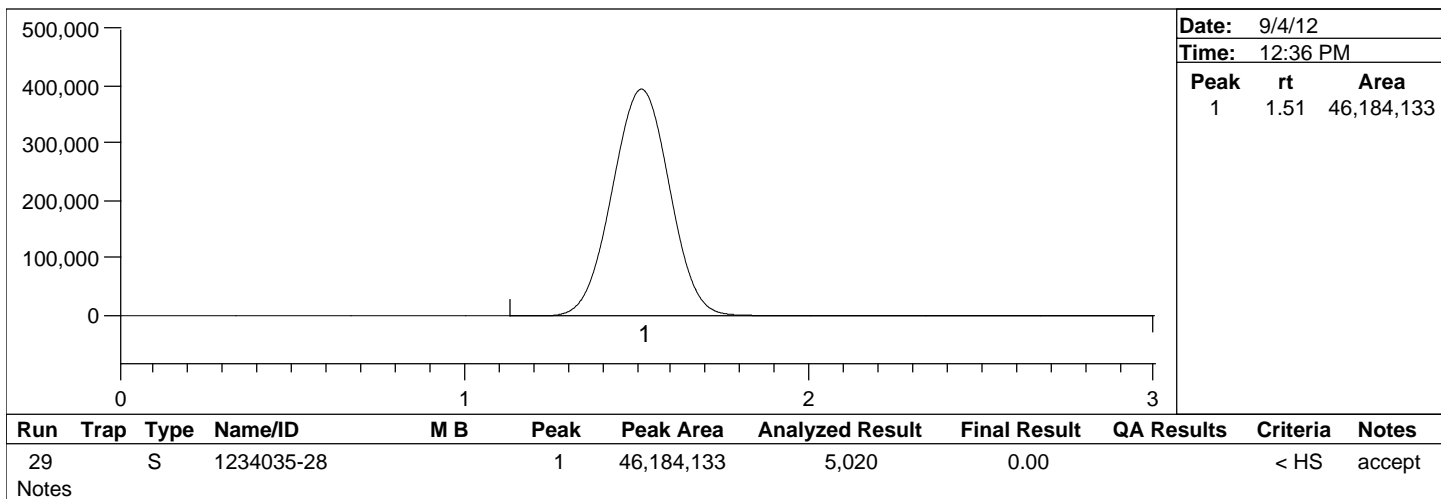
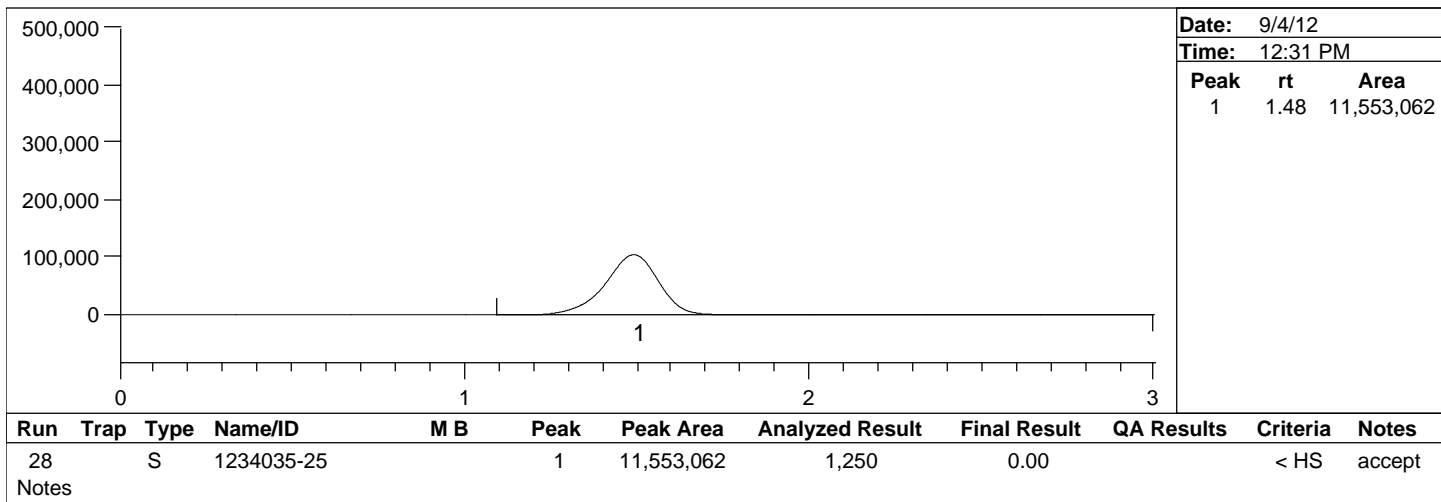


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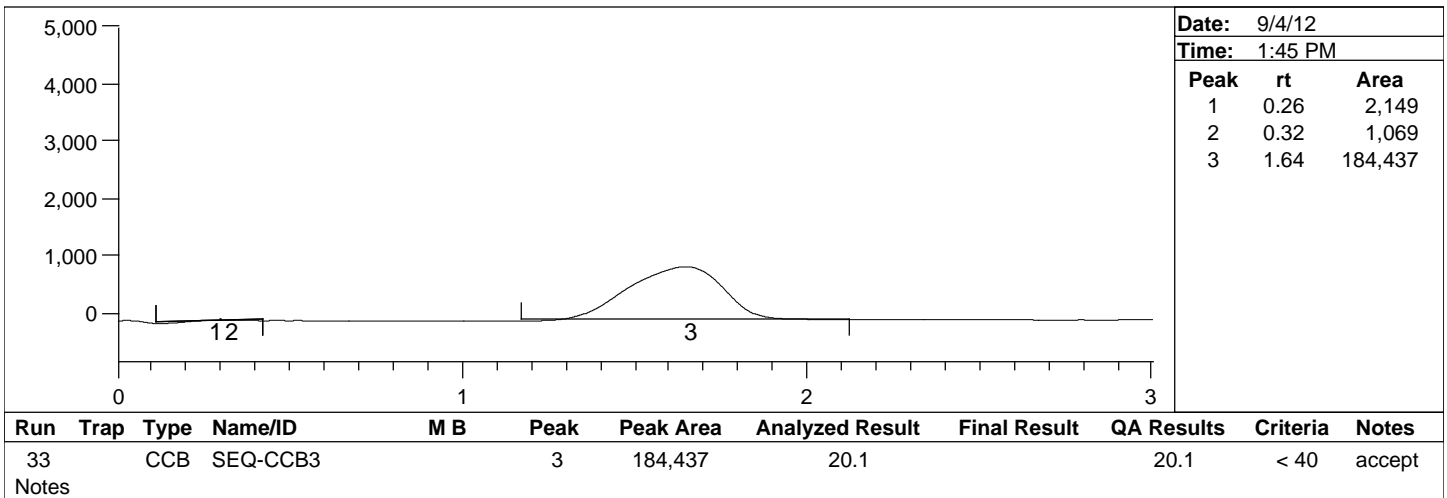
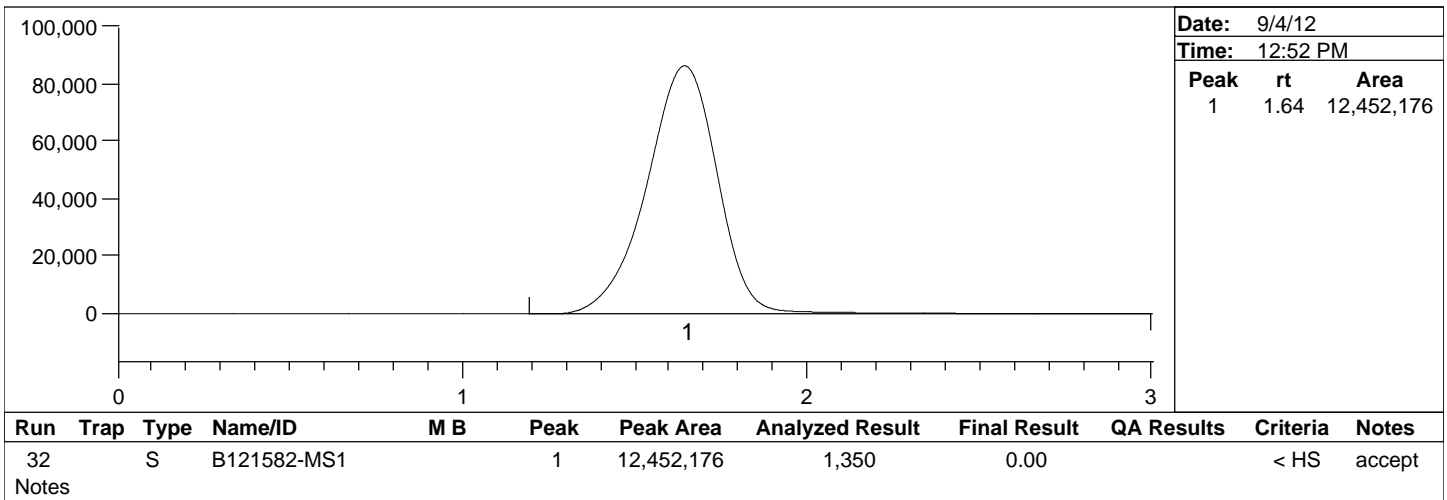
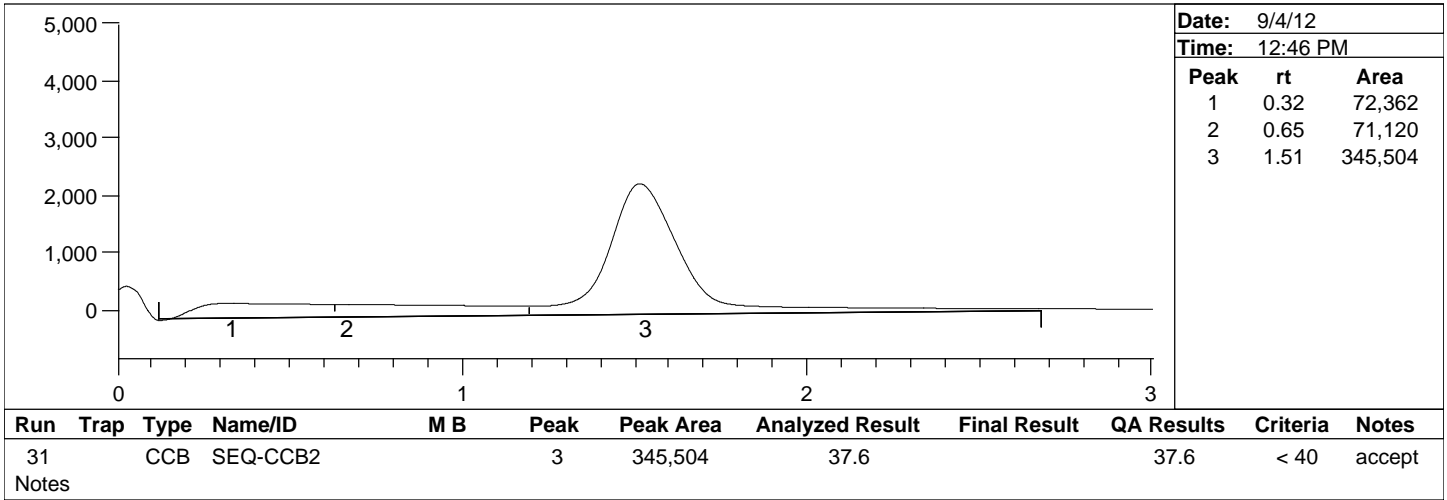


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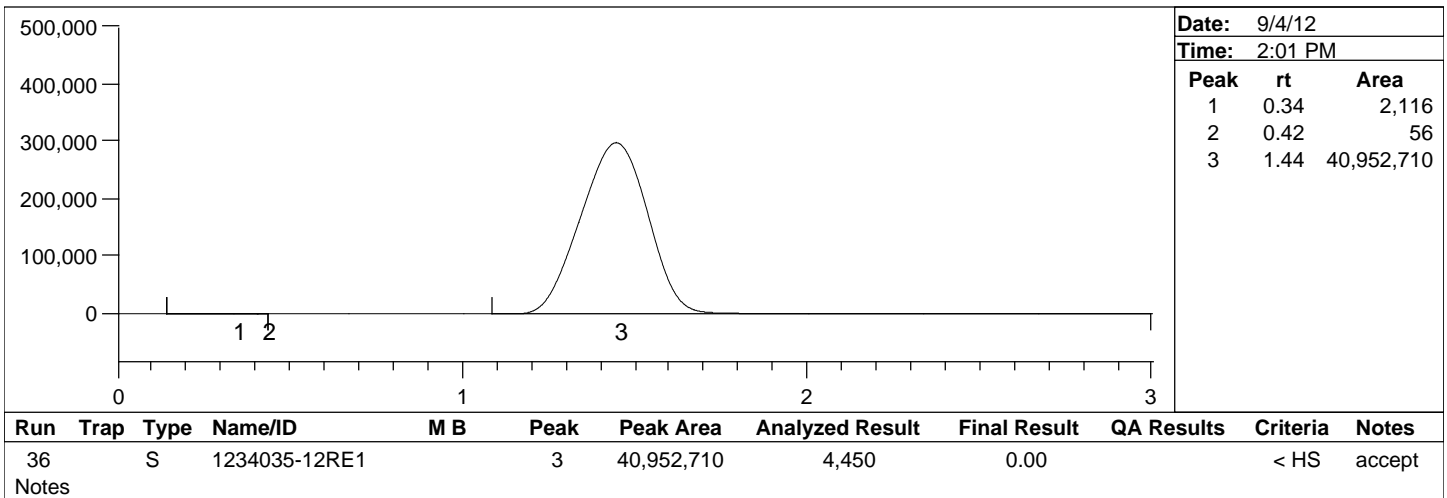
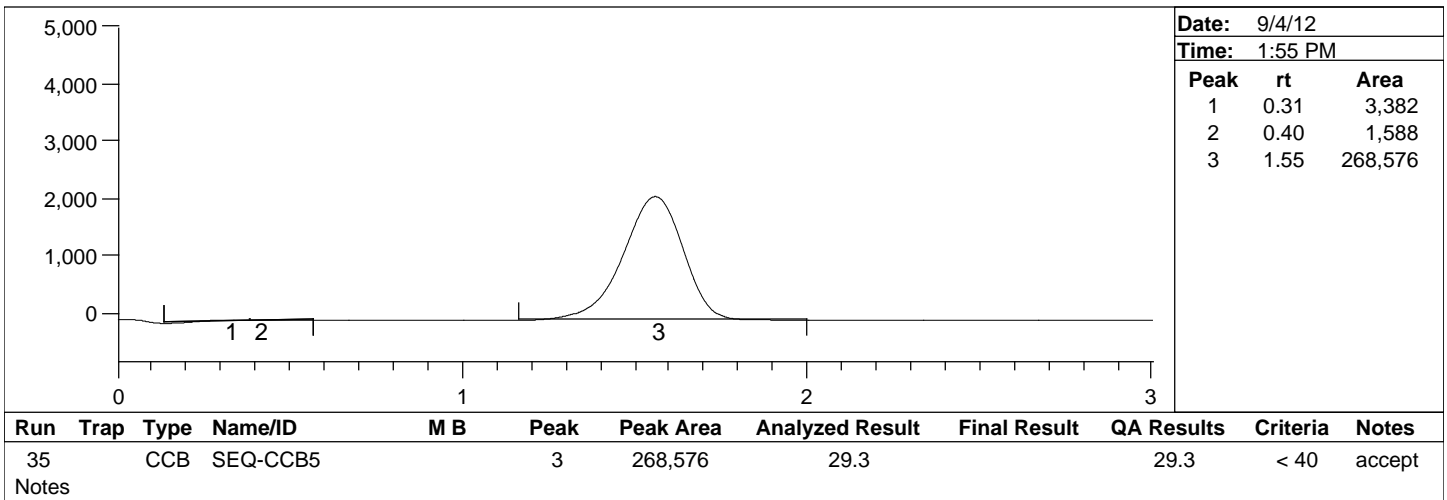
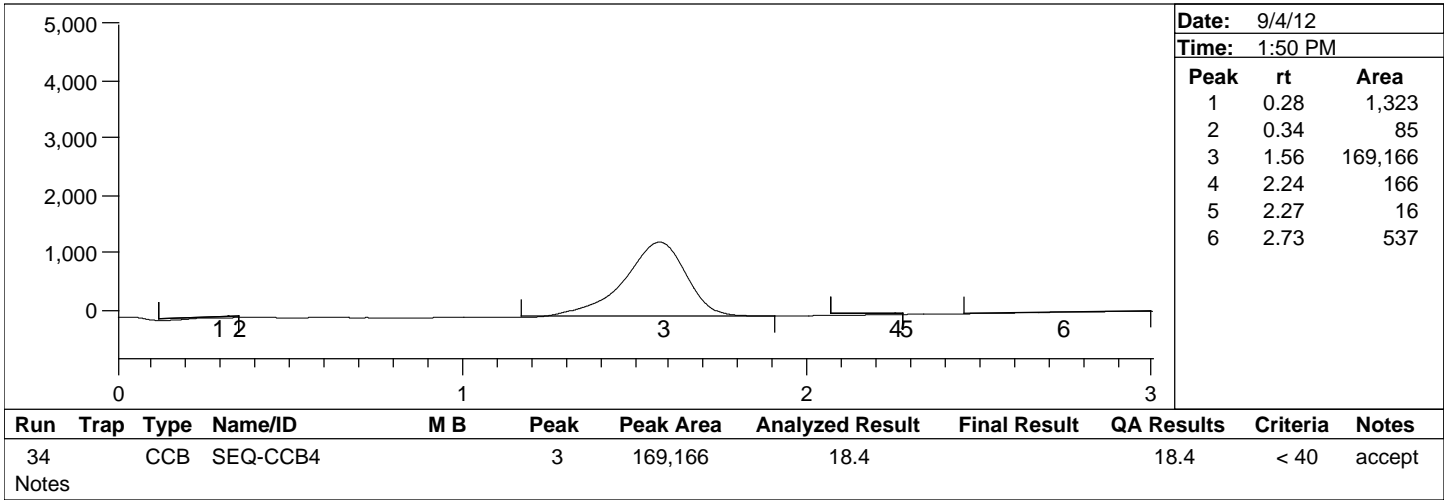


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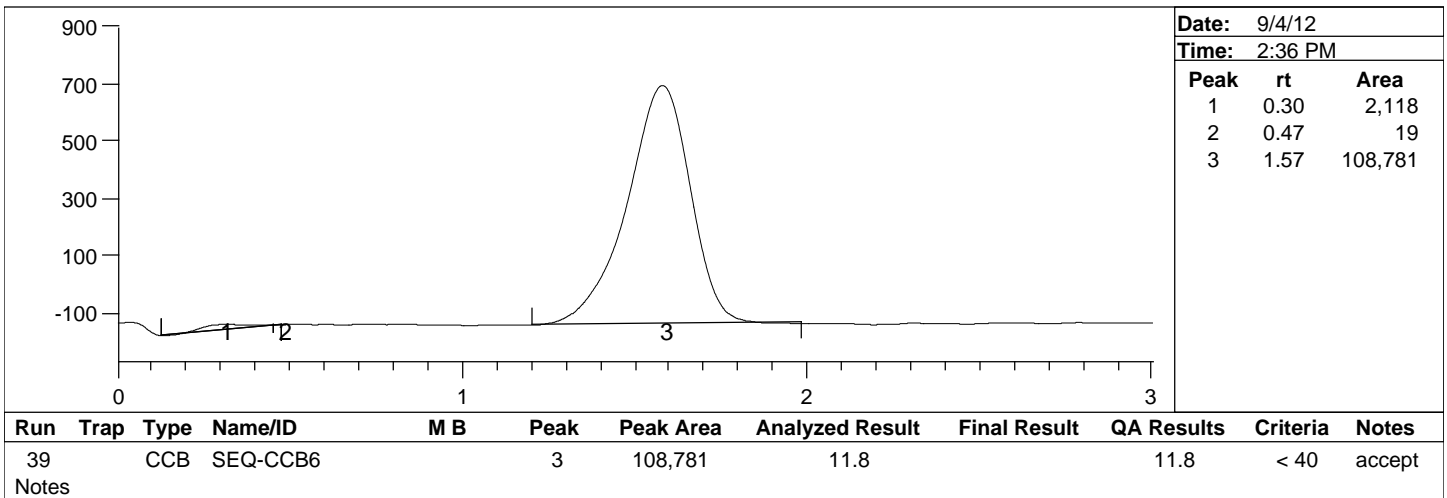
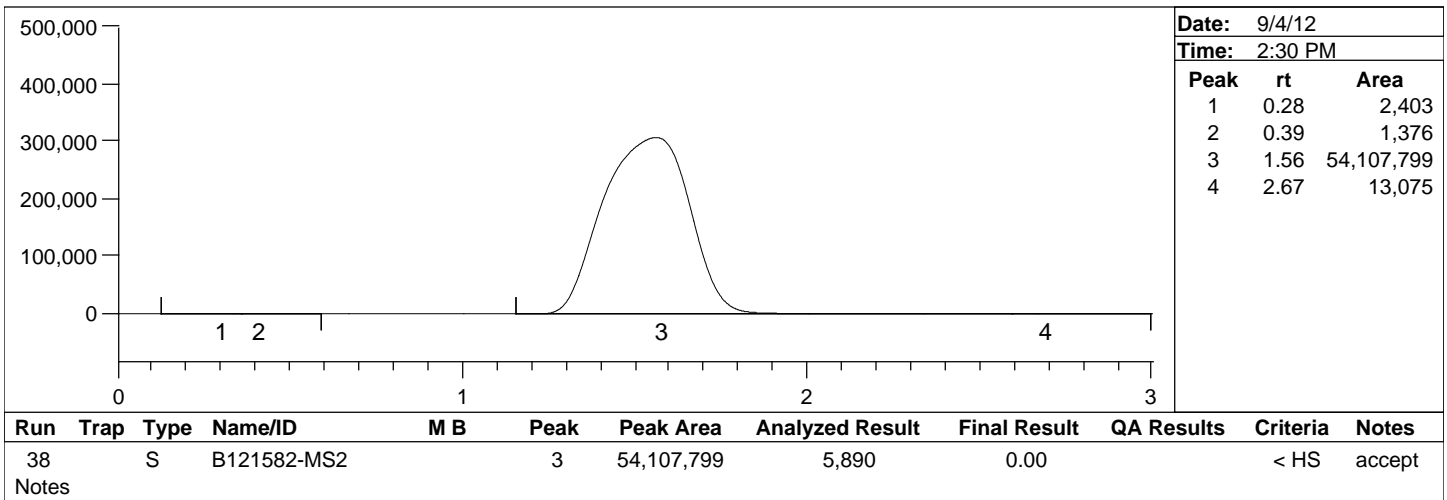
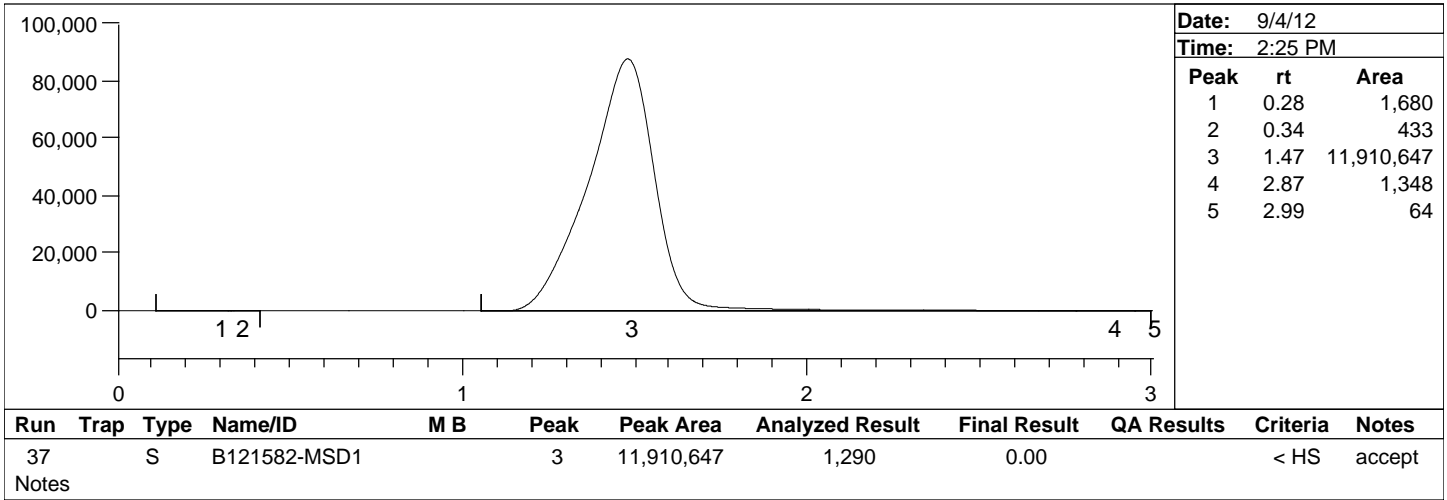


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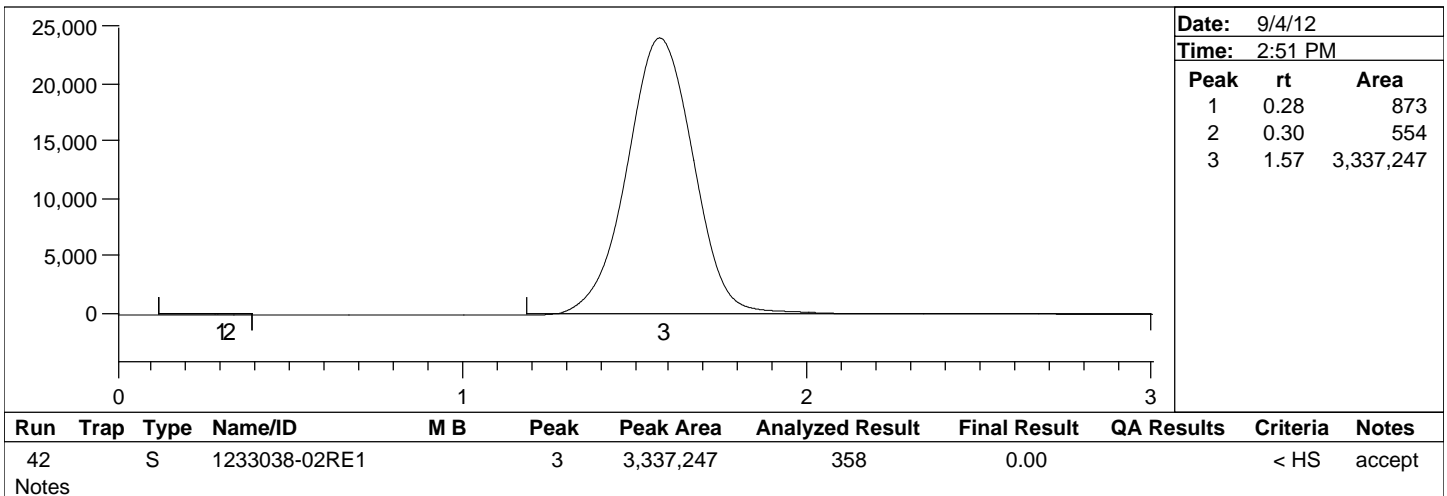
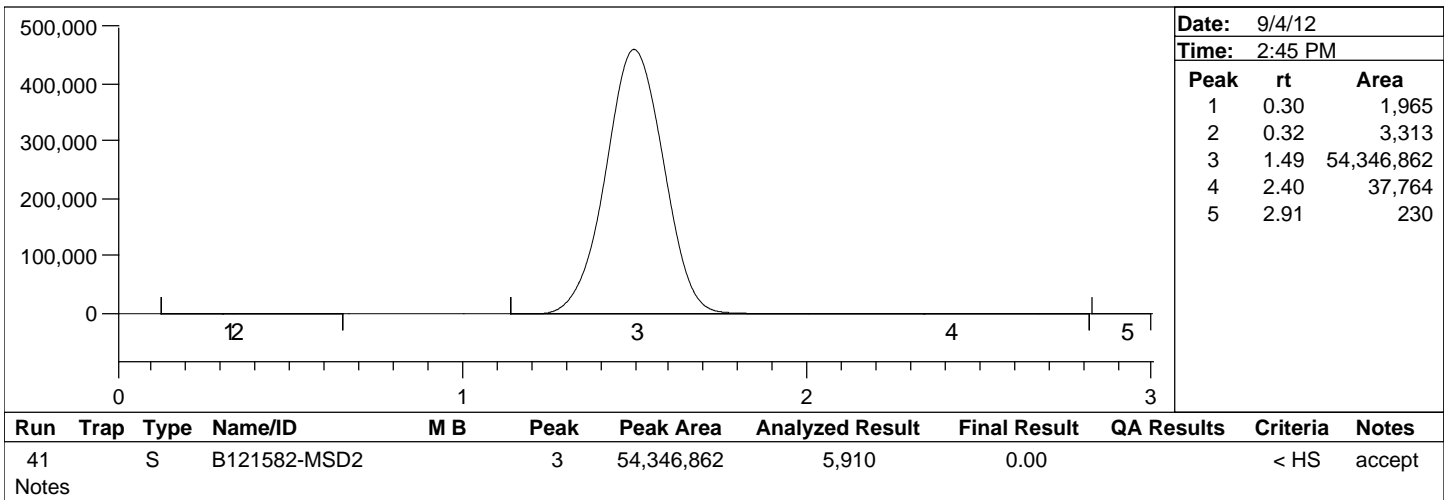
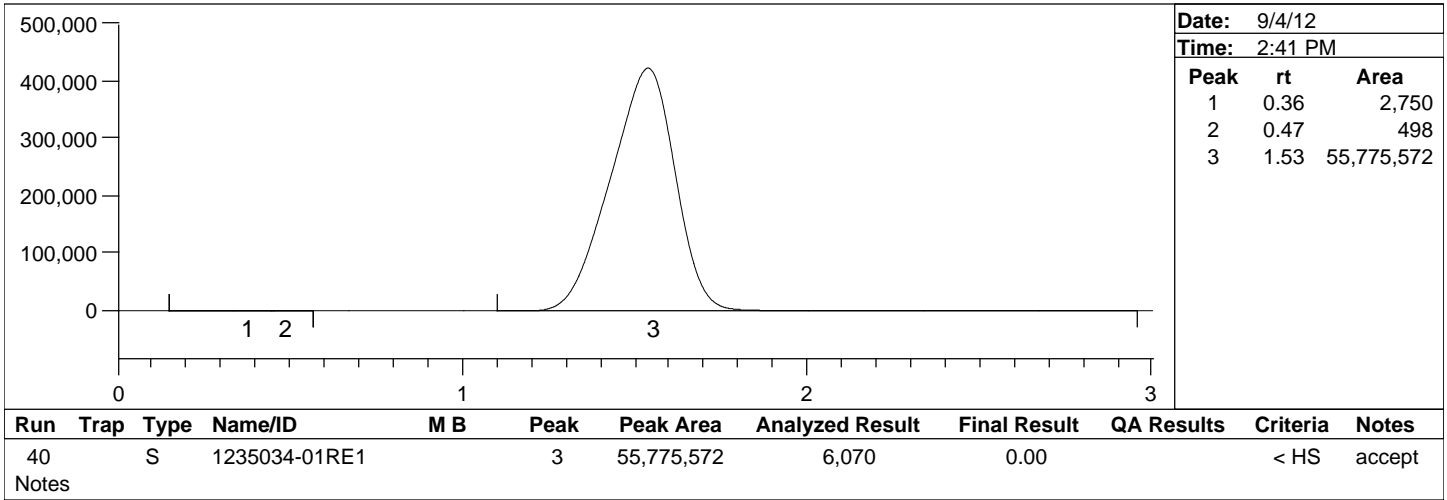


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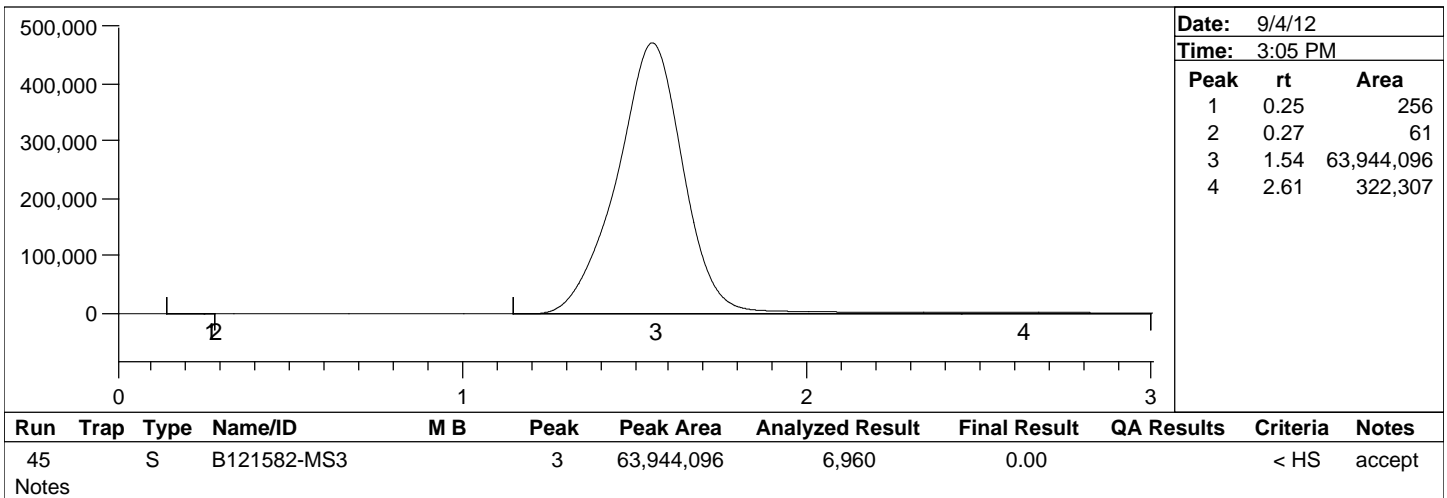
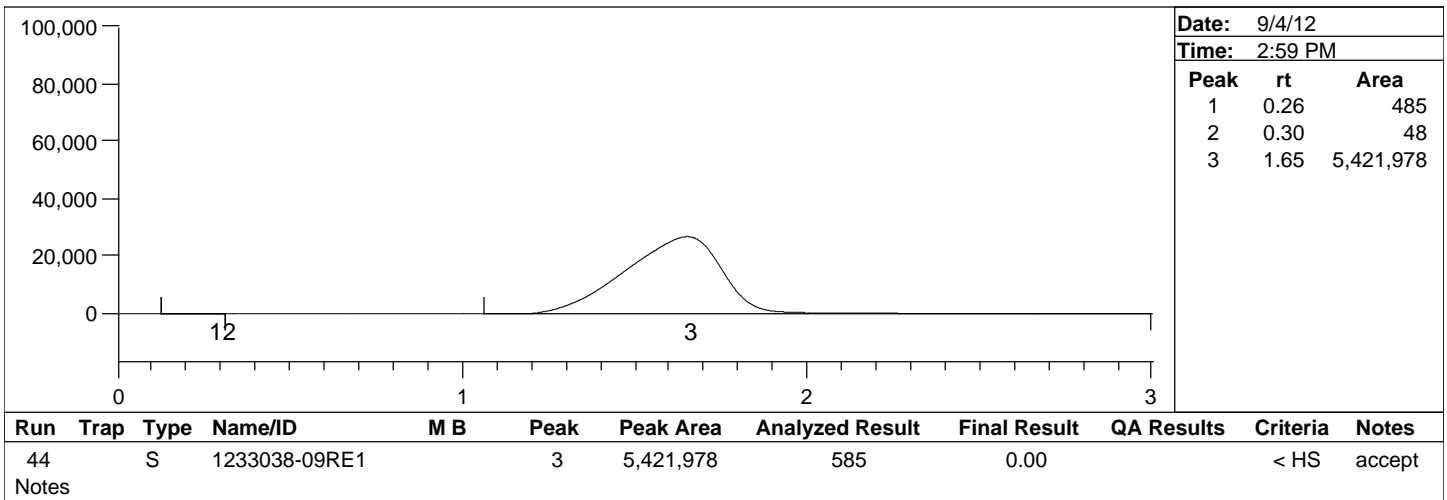
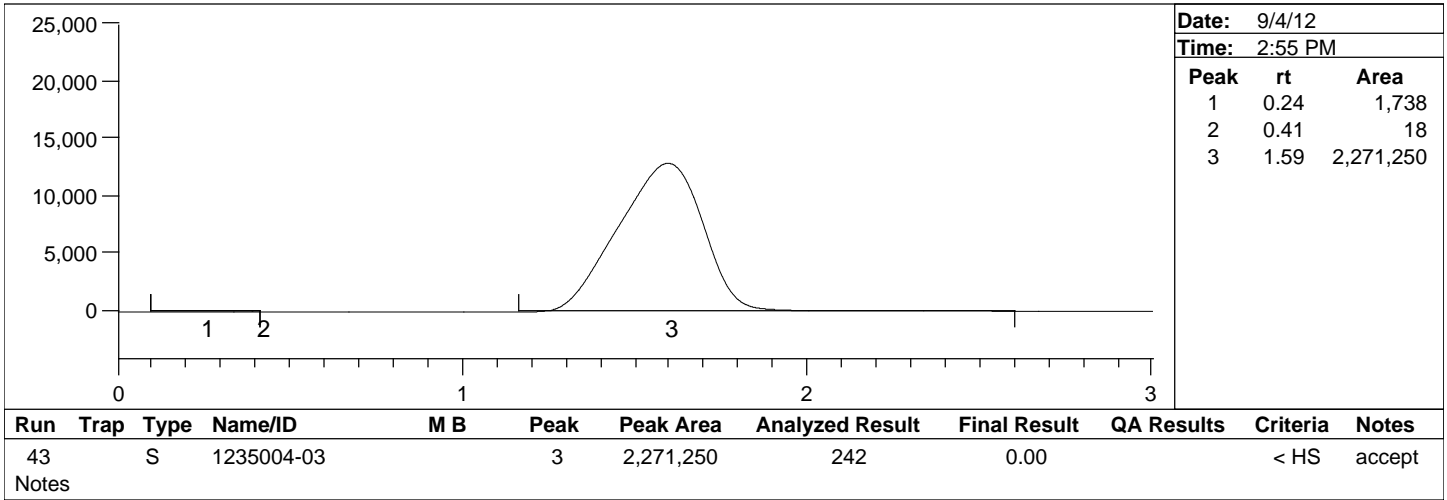


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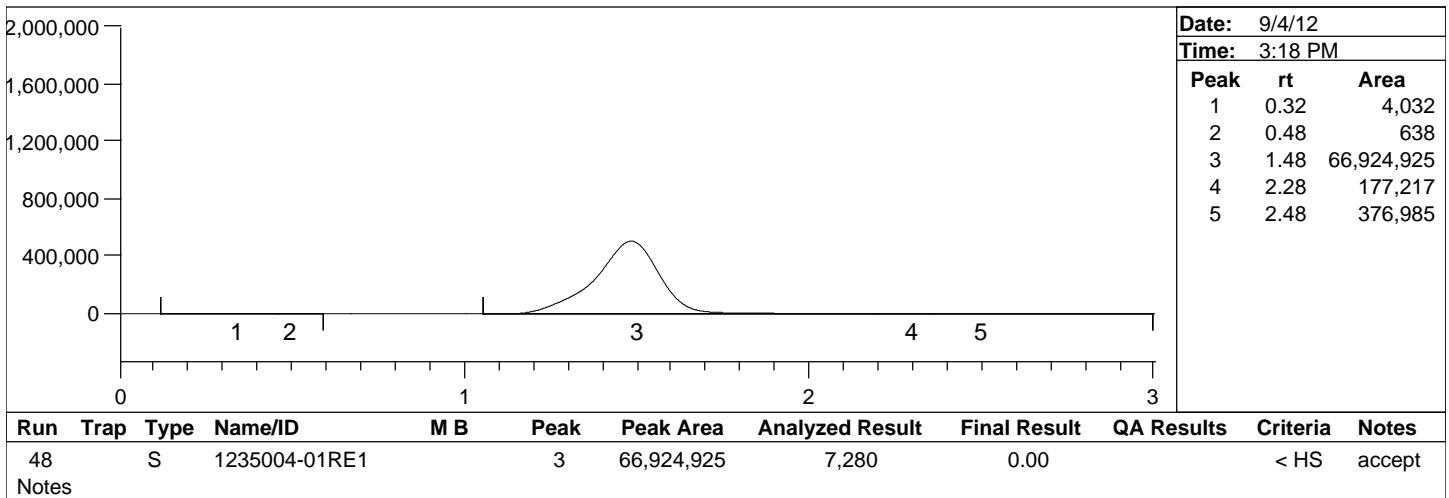
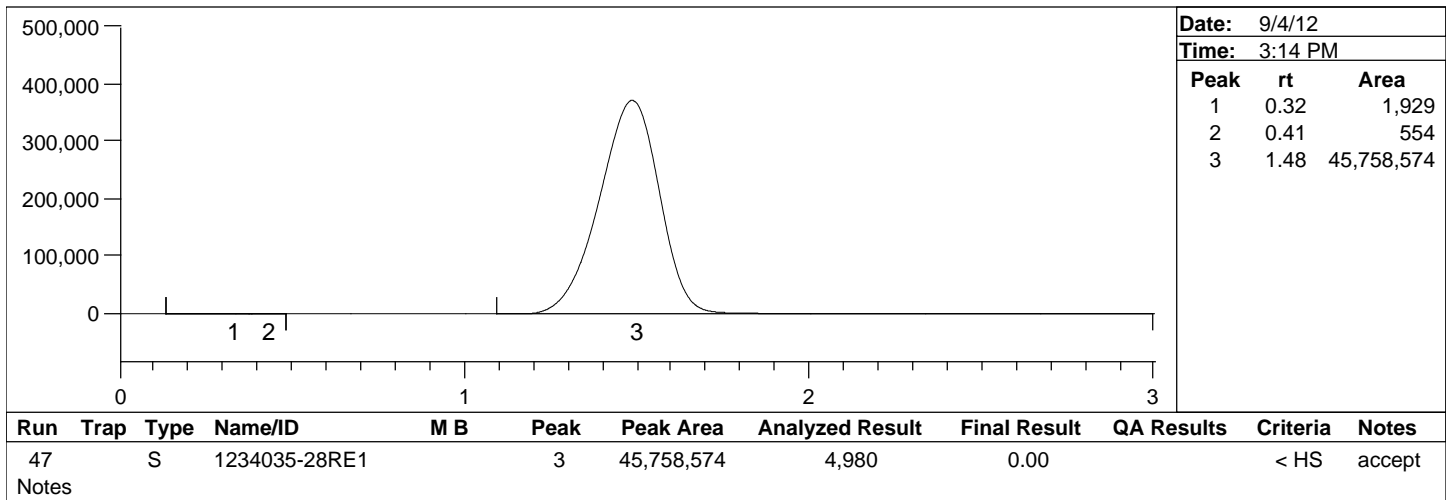
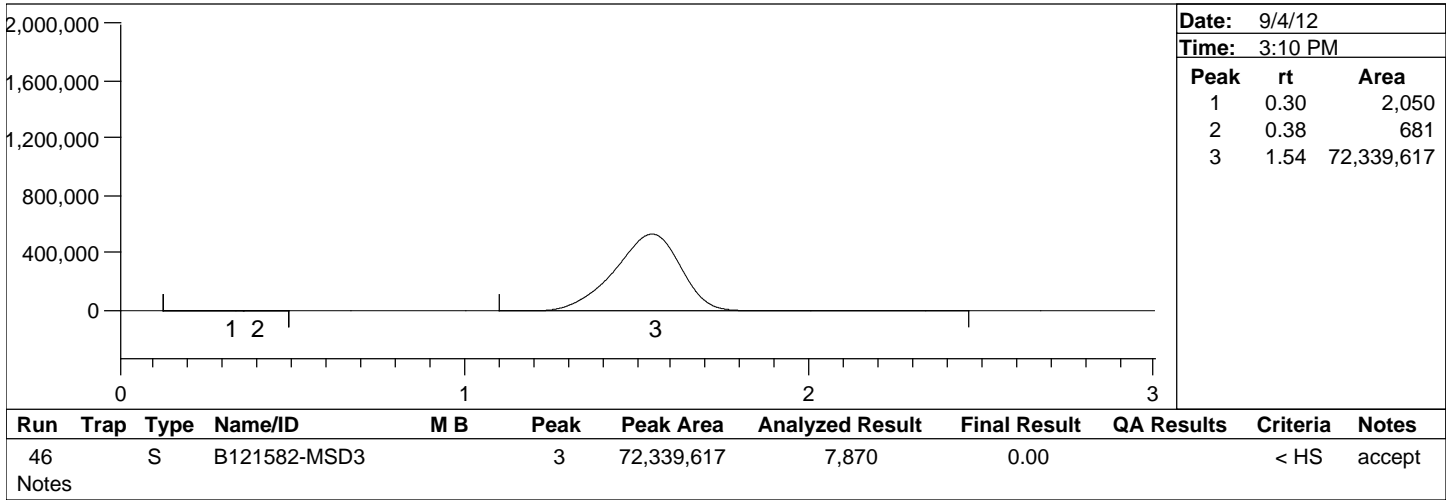


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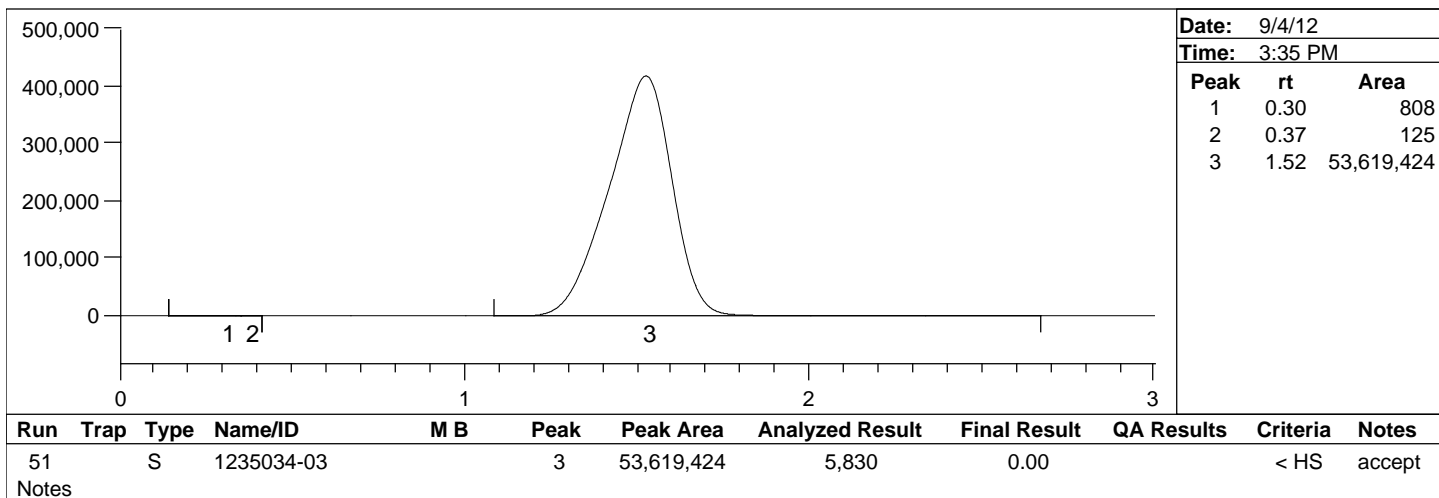
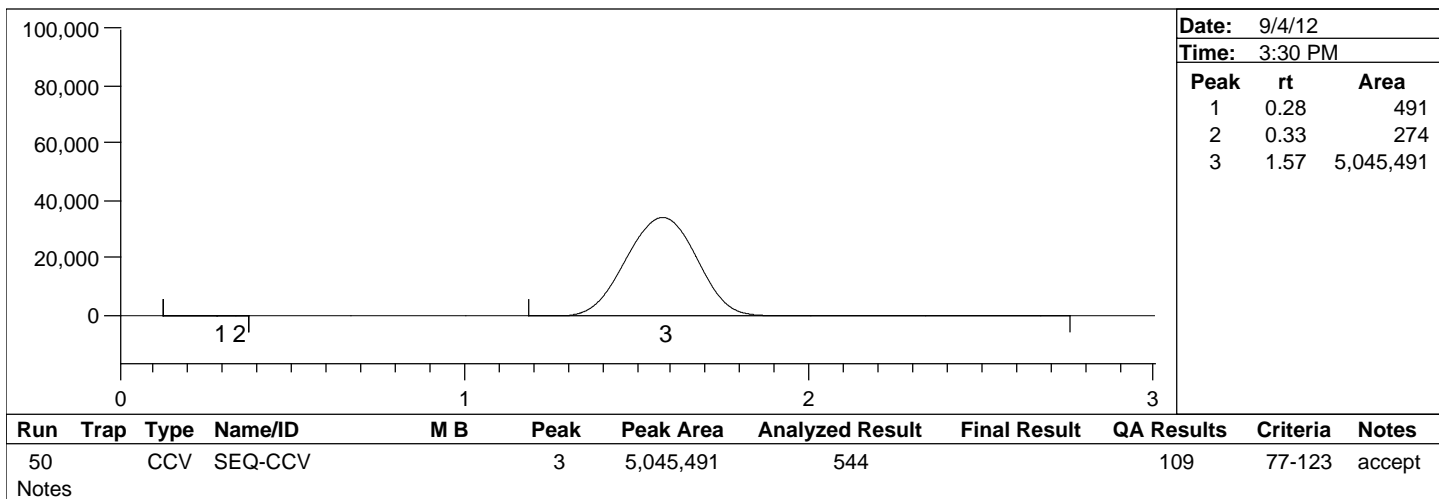
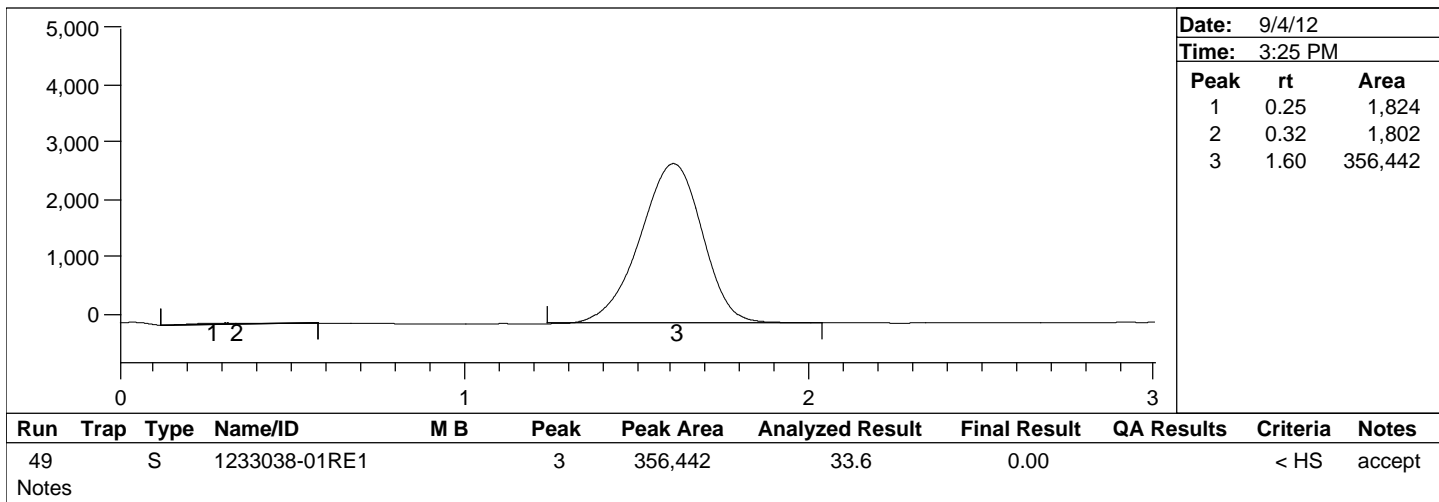


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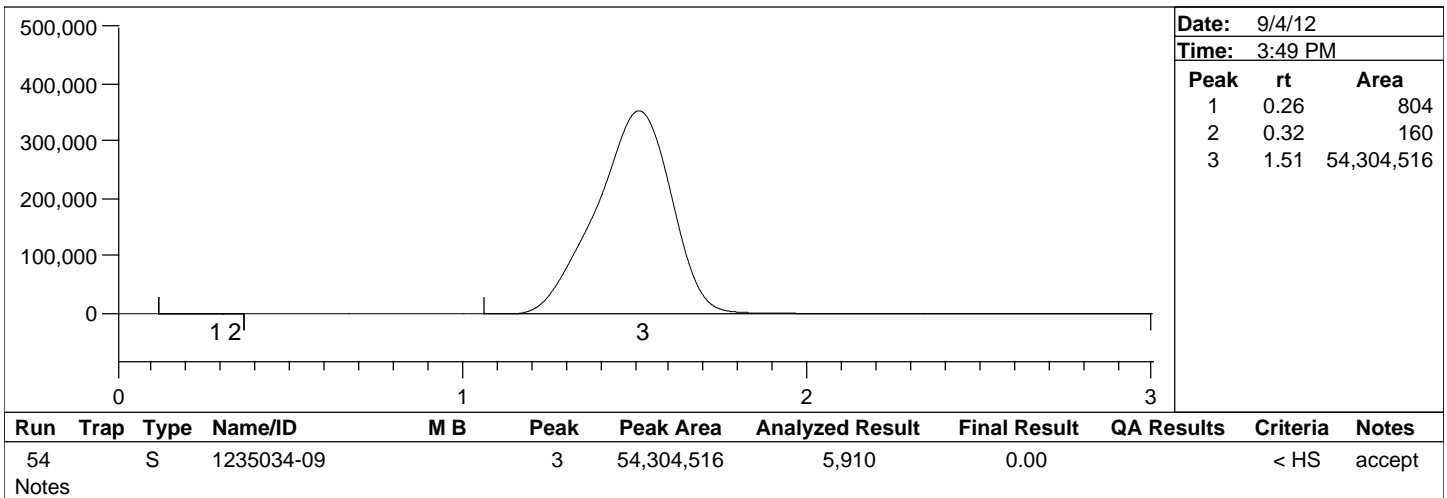
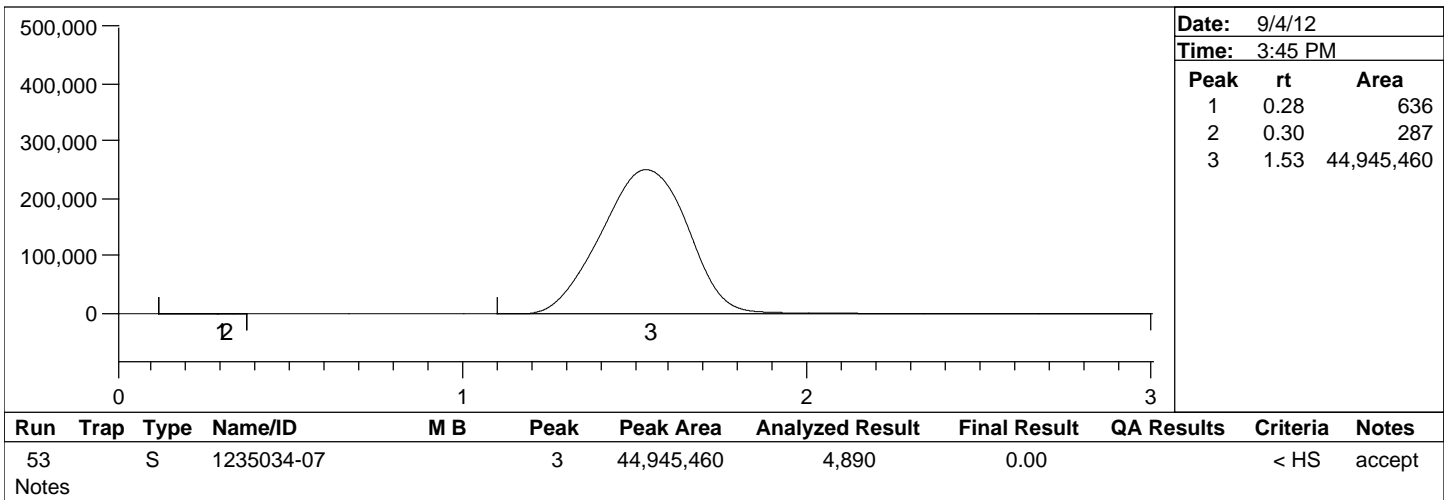
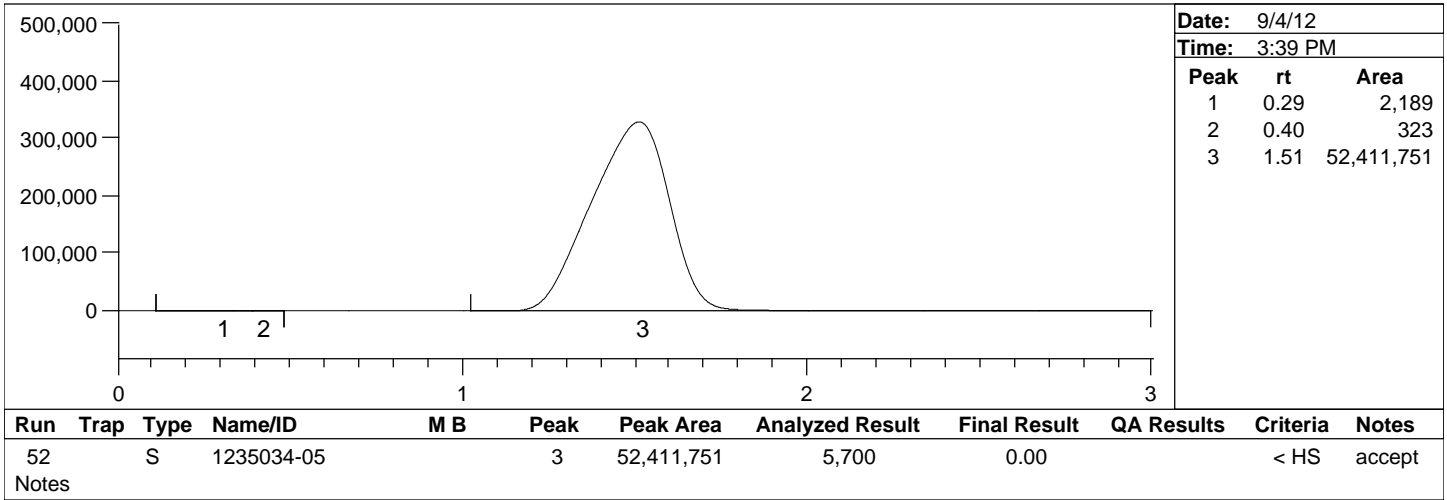


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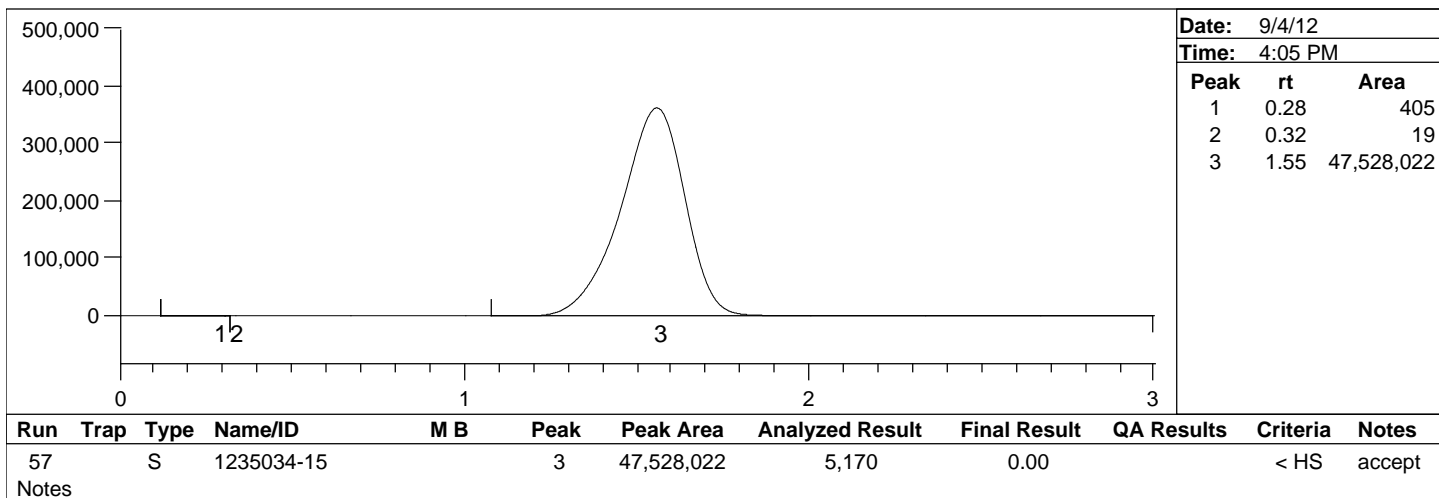
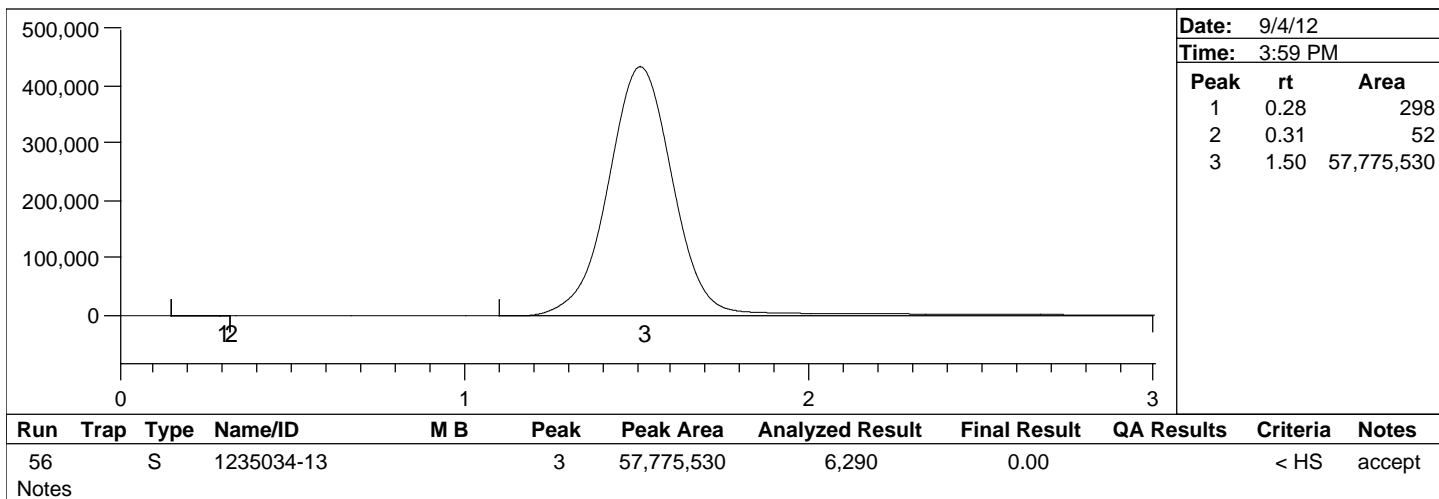
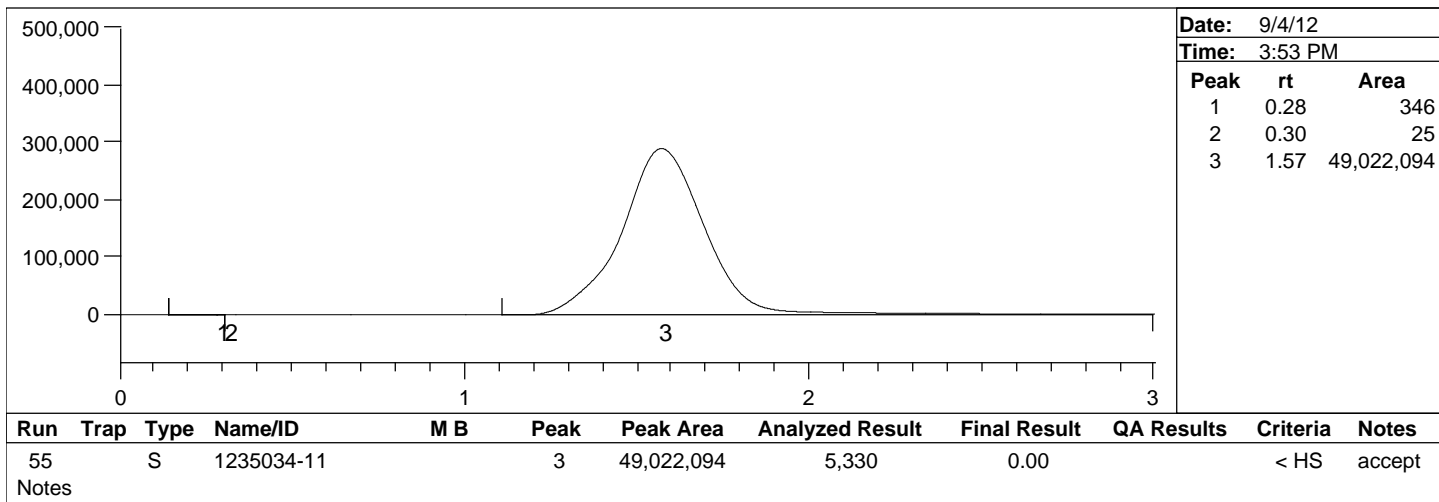


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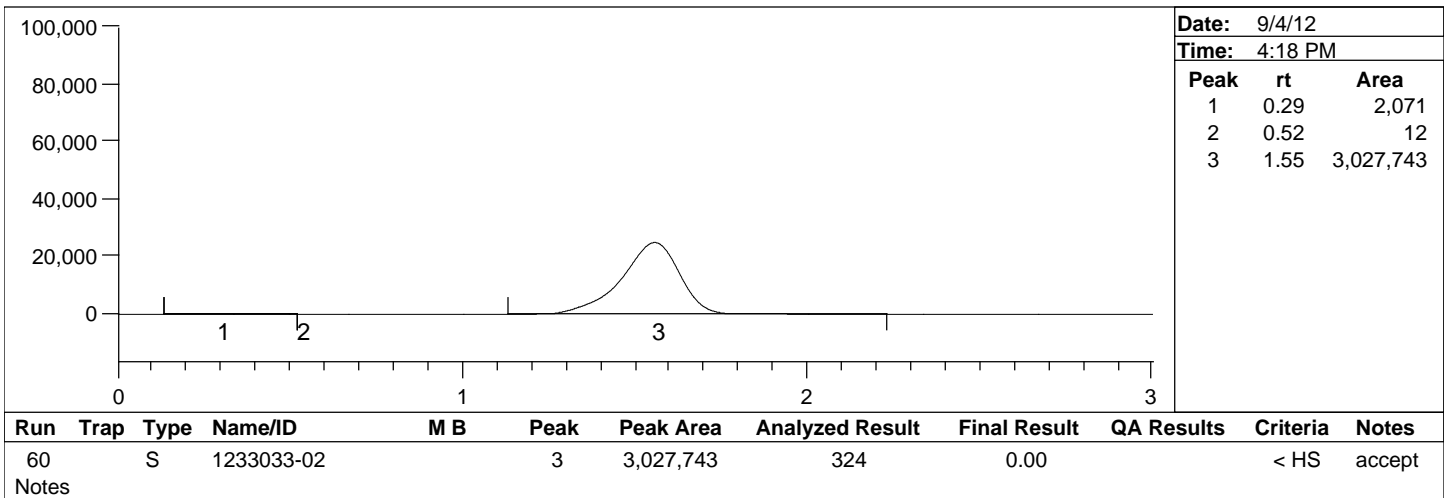
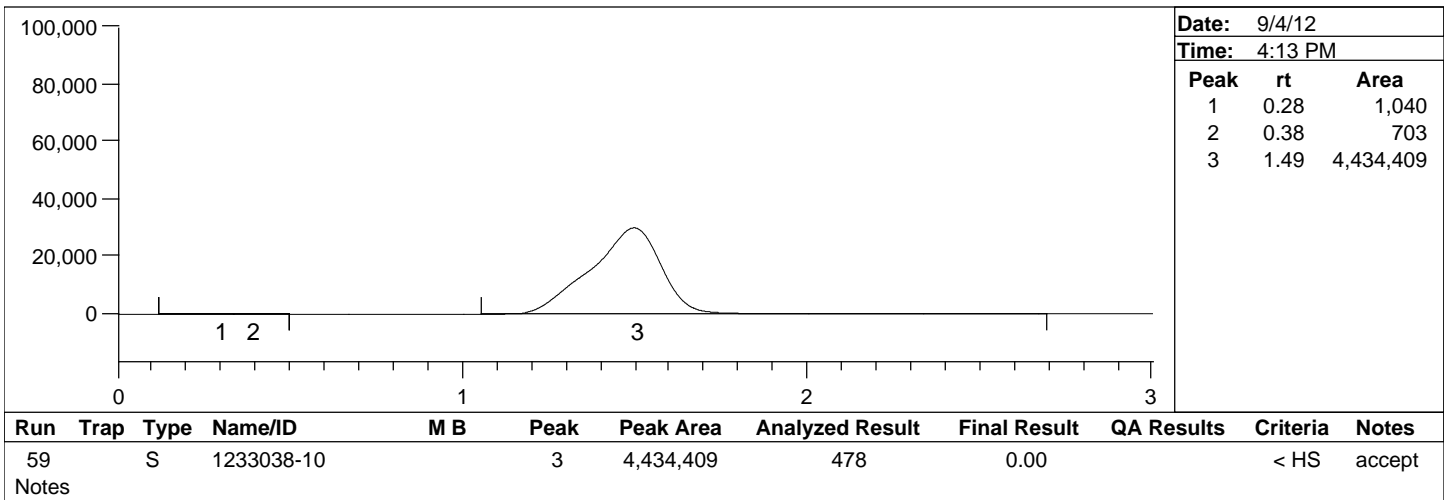
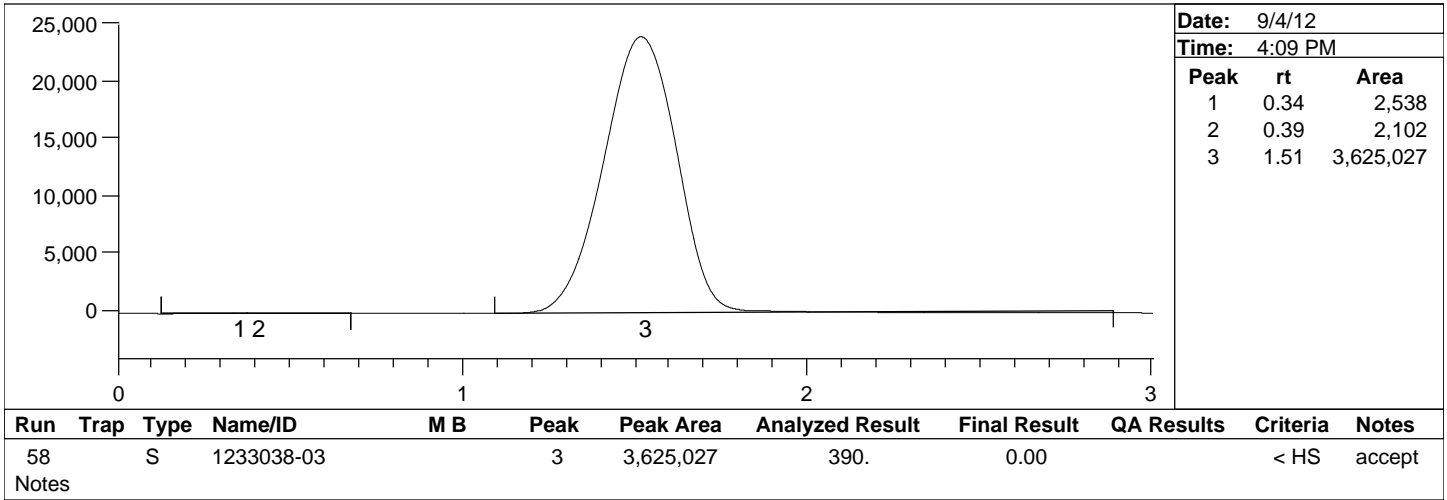


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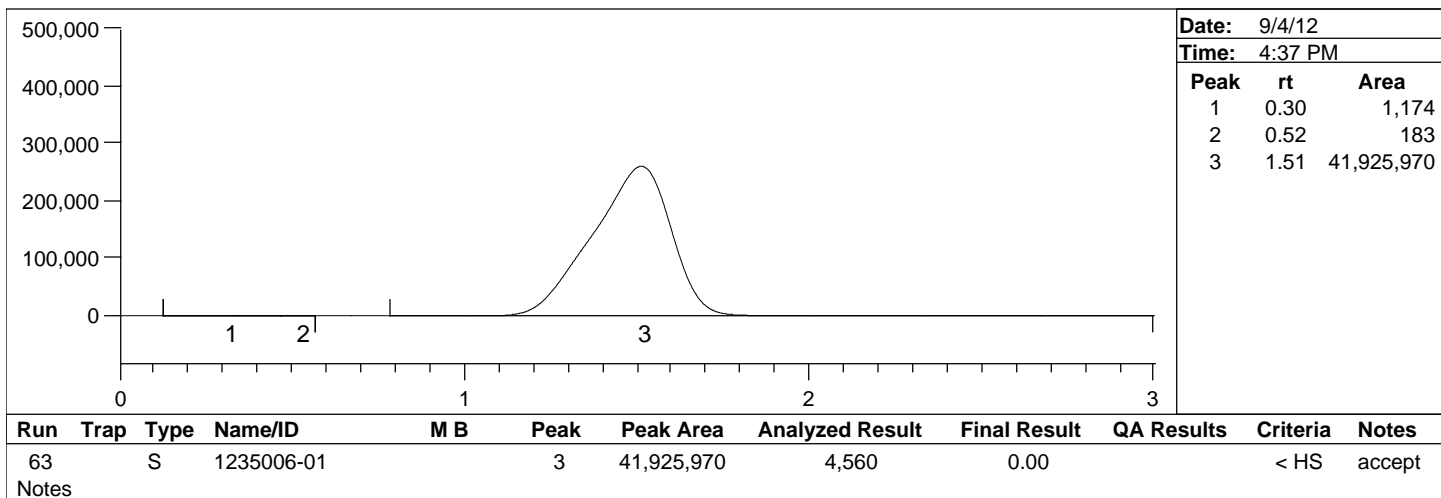
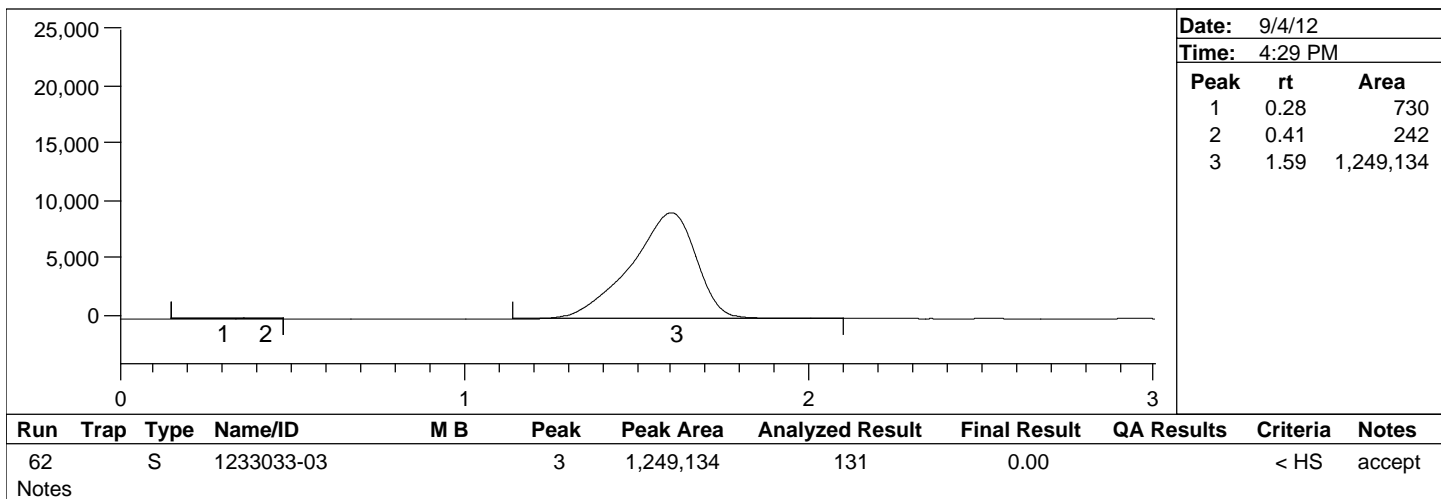
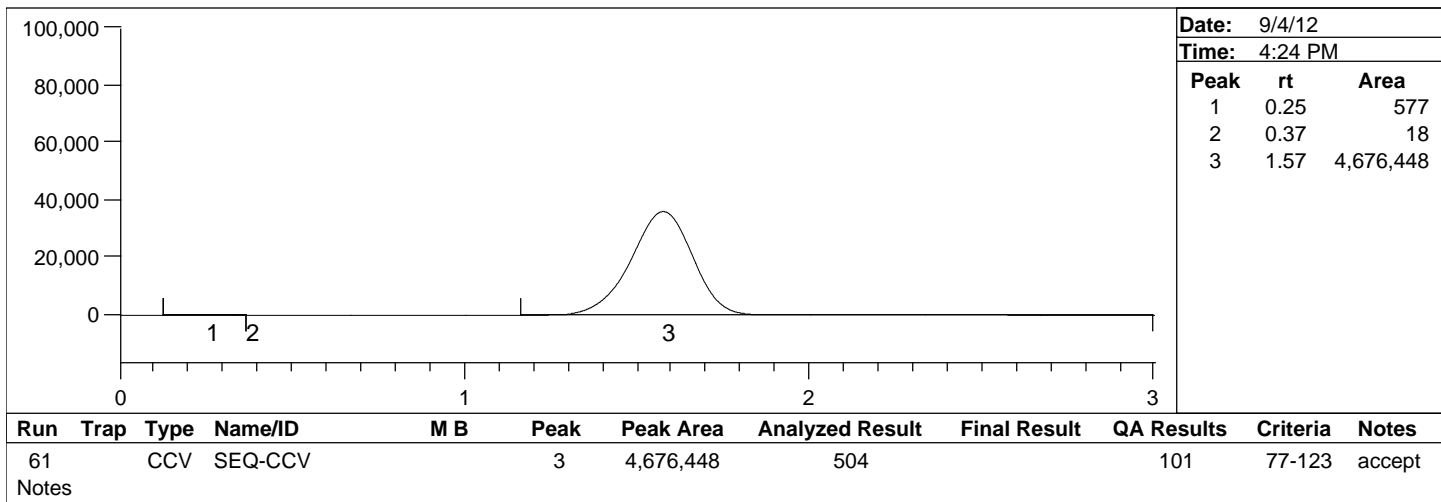


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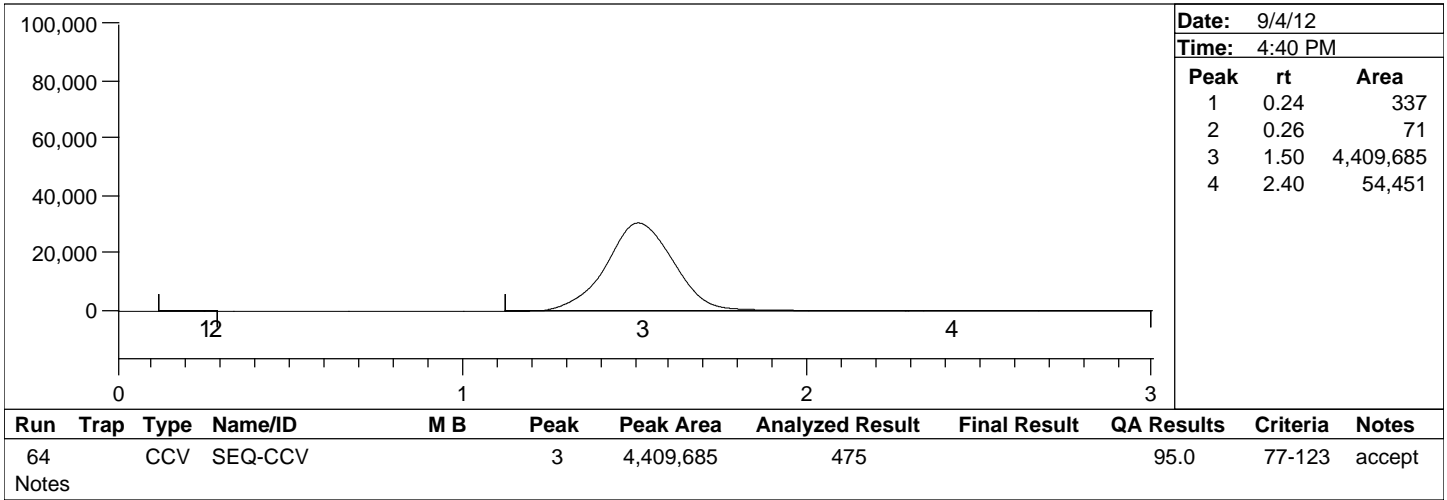


Peak Report

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Project Number(s): 1200682
Instrument ID: THG-05

Date Analyzed: 9/4/12
Analyst Name: MLH



ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200711

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200711-ICB1	1200711	QC	1		-			
1200711-CAL1	1200711	QC	2	1228062	-			
1200711-CAL2	1200711	QC	3	1228061	-			
1200711-CAL3	1200711	QC	4	1228060	-			
1200711-CAL4	1200711	QC	5	1228059	-			
1200711-CAL5	1200711	QC	6	1228058	-			
1200711-CAL6	1200711	QC	7	1228057	-			
1200711-CAL7	1200711	QC	8	1228056	-			
1200711-CAL8	1200711	QC	9	1228055	-			
1200711-ICB2	1200711	QC	10		-			
1200711-ICV1	1200711	QC	11	1217029	-			
1200711-ICB3	1200711	QC	12		-			
1200711-IBL1	1200711	QC	13		-			
1200711-IBL2	1200711	QC	14		-			
1200711-IBL3	1200711	QC	15		-			
1200711-IBL4	1200711	QC	16		-			
1200711-SCV1	1200711	QC	17	1215030	-			
1200711-CCV1	1200711	QC	18	1228059	-			
1200711-CCB1	1200711	QC	19		-			
1200711-CCV2	1200711	QC	20	1228059	-			
1200711-CCB2	1200711	QC	21		-			
1200711-CCV3	1200711	QC	22	1228059	-			
1200711-CCB3	1200711	QC	23		-			
1200711-CCV4	1200711	QC	24	1228059	-			
1200711-CCB4	1200711	QC	25		-			
B121703-BLK1	B121703	QC	26		-			

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121703-BLK2	B121703	QC	27		-			
B121703-BLK3	B121703	QC	28		-			
B121703-BLK4	B121703	QC	29		-			
B121703-BS1	B121703	QC	30		-			
B121703-SRM1	B121703	QC	31		-			
1233033-01RE2	B121703	V-FW-Oven-ICPMS-TR	32			ENV-SS1201	9/10/2012	Qualify H
1233033-01RE2	B121703	Sn-FW-Oven-ICPMS-TR	33			ENV-SS1201	9/10/2012	Qualify H
1233033-01RE2	B121703	Mo-FW-Oven-ICPMS-TR	34			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE2	B121703	V-FW-Oven-ICPMS-TR	35			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE2	B121703	Sn-FW-Oven-ICPMS-TR	36			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE2	B121703	Mo-FW-Oven-ICPMS-TR	37			ENV-SS1201	9/10/2012	Qualify H
B121703-DUP1	B121703	QC	38		1233033-02RE2			
B121703-MS1	B121703	QC	39		1233033-02RE2			
B121703-MSD1	B121703	QC	40		1233033-02RE2			
1200711-CCV5	1200711	QC	41	1228059	-			
1200711-CCB5	1200711	QC	42		-			
1233033-03RE2	B121703	V-FW-Oven-ICPMS-TR	43			ENV-SS1201	9/10/2012	Qualify H
1233033-03RE2	B121703	Sn-FW-Oven-ICPMS-TR	44			ENV-SS1201	9/10/2012	Qualify H
1233033-03RE2	B121703	Mo-FW-Oven-ICPMS-TR	45			ENV-SS1201	9/10/2012	Qualify H
1233033-01RE3	B121703	V-FW-Oven-ICPMS-TR	46			ENV-SS1201	9/10/2012	Qualify H
1233033-01RE3	B121703	Sn-FW-Oven-ICPMS-TR	47			ENV-SS1201	9/10/2012	Qualify H
1233033-01RE3	B121703	Mo-FW-Oven-ICPMS-TR	48			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE3	B121703	V-FW-Oven-ICPMS-TR	49			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE3	B121703	Sn-FW-Oven-ICPMS-TR	50			ENV-SS1201	9/10/2012	Qualify H
1233033-02RE3	B121703	Mo-FW-Oven-ICPMS-TR	51			ENV-SS1201	9/10/2012	Qualify H
B121703-DUP2	B121703	QC	52		1233033-02RE3			

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121703-MS2	B121703	QC	53		1233033-02RE3			
B121703-MSD2	B121703	QC	54		1233033-02RE3			
1233033-03RE3	B121703	V-FW-Oven-ICPMS-TR	55			ENV-SS1201	9/10/2012	Qualify H
1233033-03RE3	B121703	Sn-FW-Oven-ICPMS-TR	56			ENV-SS1201	9/10/2012	Qualify H
1233033-03RE3	B121703	Mo-FW-Oven-ICPMS-TR	57			ENV-SS1201	9/10/2012	Qualify H
1200711-CCV6	1200711	QC	58	1228059	-			
1200711-CCB6	1200711	QC	59		-			
B121546-BLK1	B121546	QC	60		-			
B121546-BLK2	B121546	QC	61		-			
B121546-BLK3	B121546	QC	62		-			
B121546-BLK4	B121546	QC	63		-			
B121546-BS1	B121546	QC	64		-			
B121546-SRM1	B121546	QC	65		-			
B121546-SRM2	B121546	QC	66		-			
1234009-01	B121546	Cu-B-HNO3-ICPMS	67			AVR-GA1201	9/13/2012	
1234009-02	B121546	Cu-B-HNO3-ICPMS	68			AVR-GA1201	9/13/2012	
1234009-03	B121546	Cu-B-HNO3-ICPMS	69			AVR-GA1201	9/13/2012	
1200711-CCV7	1200711	QC	70	1228058	-			
1200711-CCB7	1200711	QC	71		-			
1234009-04	B121546	Cu-B-HNO3-ICPMS	72			AVR-GA1201	9/13/2012	
1234009-05	B121546	Cu-B-HNO3-ICPMS	73			AVR-GA1201	9/13/2012	
1234009-06	B121546	Cu-B-HNO3-ICPMS	74			AVR-GA1201	9/13/2012	
1234009-07	B121546	Cu-B-HNO3-ICPMS	75			AVR-GA1201	9/13/2012	
1234009-08	B121546	Cu-B-HNO3-ICPMS	76			AVR-GA1201	9/13/2012	
1234009-09	B121546	Cu-B-HNO3-ICPMS	77			AVR-GA1201	9/13/2012	
1234009-10	B121546	Cu-B-HNO3-ICPMS	78			AVR-GA1201	9/13/2012	

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121546-DUP1	B121546	QC	79		1234009-10			
B121546-MS1	B121546	QC	80		1234009-10			
B121546-MSD1	B121546	QC	81		1234009-10			
1200711-CCV8	1200711	QC	82	1228058	-			
1200711-CCB8	1200711	QC	83		-			
1234009-11	B121546	Cu-B-HNO3-ICPMS	84			AVR-GA1201	9/13/2012	
1234009-12	B121546	Cu-B-HNO3-ICPMS	85			AVR-GA1201	9/13/2012	
1234009-13	B121546	Cu-B-HNO3-ICPMS	86			AVR-GA1201	9/13/2012	
B121546-DUP2	B121546	QC	87		1234009-13			
B121546-MS2	B121546	QC	88		1234009-13			
B121546-MSD2	B121546	QC	89		1234009-13			
1234009-27	B121546	Cu-B-HNO3-ICPMS	90			AVR-GA1201	9/13/2012	
1234009-28	B121546	Cu-B-HNO3-ICPMS	91			AVR-GA1201	9/13/2012	
1234009-29	B121546	Cu-B-HNO3-ICPMS	92			AVR-GA1201	9/13/2012	
1200711-CCV9	1200711	QC	93	1228058	-			
1200711-CCB9	1200711	QC	94		-			
B121546-DUP3	B121546	QC	95		1234009-29			
B121546-MS3	B121546	QC	96		1234009-29			
B121546-MSD3	B121546	QC	97		1234009-29			
1234009-32	B121546	Cu-B-HNO3-ICPMS	98			AVR-GA1201	9/13/2012	
1234009-33	B121546	Cu-B-HNO3-ICPMS	99			AVR-GA1201	9/13/2012	
1234009-34	B121546	Cu-B-HNO3-ICPMS	100			AVR-GA1201	9/13/2012	
1234009-35	B121546	Cu-B-HNO3-ICPMS	101			AVR-GA1201	9/13/2012	
1234009-36	B121546	Cu-B-HNO3-ICPMS	102			AVR-GA1201	9/13/2012	
1234009-37	B121546	Cu-B-HNO3-ICPMS	103			AVR-GA1201	9/13/2012	
1234009-38	B121546	Cu-B-HNO3-ICPMS	104			AVR-GA1201	9/13/2012	

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200711-CCVA	1200711	QC	105	1228058	-			
1200711-CCBA	1200711	QC	106		-			
B121544-BLK1	B121544	QC	107		-			
B121544-BLK2	B121544	QC	108		-			
B121544-BLK3	B121544	QC	109		-			
B121544-BLK4	B121544	QC	110		-			
0944029-92	B121544	Se-SW-RP-ICPMS-TR	111			RP SW-LFB	10/23/2009	
B121544-MS3	B121544	QC	112		0944029-92			
B121544-SRM1	B121544	QC	113		-			
B121544-BS1	B121544	QC	114		-			
1233038-04	B121544	Se-SW-RP-ICPMS-TR	115			UDE-SL1201	10/2/2012	
1233038-05	B121544	Se-SW-RP-ICPMS-TR	116			UDE-SL1201	10/2/2012	
1200711-CCVB	1200711	QC	117	1228058	-			
1200711-CCBB	1200711	QC	118		-			
1233038-06	B121544	Se-SW-RP-ICPMS-TR	119			UDE-SL1201	10/2/2012	
1233038-07	B121544	Se-SW-RP-ICPMS-TR	120			UDE-SL1201	10/2/2012	
1233038-11	B121544	Se-SW-RP-ICPMS-TR	121			UDE-SL1201	10/2/2012	
1233038-12	B121544	Se-SW-RP-ICPMS-TR	122			UDE-SL1201	10/2/2012	
B121544-DUP2	B121544	QC	123		1233038-12			
B121544-MS2	B121544	QC	124		1233038-12			
B121544-MSD2	B121544	QC	125		1233038-12			
1200711-CCVC	1200711	QC	126	1228058	-			
1200711-CCBC	1200711	QC	127		-			
B121547-BLK1	B121547	QC	128		-			
B121547-BLK2	B121547	QC	129		-			
B121547-BLK3	B121547	QC	130		-			

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121547-BLK4	B121547	QC	131		-			
1234009-14	B121547	Cu-FW-Oven-ICPMS-TR	132			AVR-GA1201	9/13/2012	
1234009-15	B121547	Cu-FW-Oven-ICPMS-TR	133			AVR-GA1201	9/13/2012	
1234009-16	B121547	Cu-FW-Oven-ICPMS-TR	134			AVR-GA1201	9/13/2012	
1234009-17	B121547	Cu-FW-Oven-ICPMS-TR	135			AVR-GA1201	9/13/2012	
1234009-18	B121547	Cu-FW-Oven-ICPMS-TR	136			AVR-GA1201	9/13/2012	
1234009-19	B121547	Cu-FW-Oven-ICPMS-TR	137			AVR-GA1201	9/13/2012	
1234009-20	B121547	Cu-FW-Oven-ICPMS-TR	138			AVR-GA1201	9/13/2012	
B121547-DUP1	B121547	QC	139		1234009-16			
B121547-MS1	B121547	QC	140		1234009-16			
B121547-MSD1	B121547	QC	141		1234009-16			
1200711-CCVD	1200711	QC	142	1228058	-			
1200711-CCBD	1200711	QC	143		-			
1234009-21	B121547	Cu-FW-Oven-ICPMS-TR	144			AVR-GA1201	9/13/2012	
1234009-22	B121547	Cu-FW-Oven-ICPMS-TR	145			AVR-GA1201	9/13/2012	
1234009-23	B121547	Cu-FW-Oven-ICPMS-TR	146			AVR-GA1201	9/13/2012	
1234009-24	B121547	Cu-FW-Oven-ICPMS-TR	147			AVR-GA1201	9/13/2012	
1234009-25	B121547	Cu-FW-Oven-ICPMS-TR	148			AVR-GA1201	9/13/2012	
1234009-26	B121547	Cu-FW-Oven-ICPMS-TR	149			AVR-GA1201	9/13/2012	
B121547-MSD2	B121547	QC	150		1234009-23			
B121547-MS2	B121547	QC	151		1234009-23			
B121547-DUP2	B121547	QC	152		1234009-23			
1200711-CCVE	1200711	QC	153	1228058	-			
1200711-CCBE	1200711	QC	154		-			
B121541-BLK1	B121541	QC	155		-			
B121541-BLK2	B121541	QC	156		-			

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121541-BLK3	B121541	QC	157		-			
B121541-BLK4	B121541	QC	158		-			
B121541-BS1	B121541	QC	159		-			
B121541-SRM1	B121541	QC	160		-			
1232005-34	B121541	Sr-FW-Oven-ICPMS-Diss	161			USG-SE1201	9/4/2012	DNS
1232005-34	B121541	Mn-FW-Oven-ICPMS-Diss	162			USG-SE1201	9/4/2012	DNS
1232005-34	B121541	Mg-FW-Oven-ICPMS-Diss	163			USG-SE1201	9/4/2012	DNS
1232005-34	B121541	Ca-FW-Oven-ICPMS-Diss	164			USG-SE1201	9/4/2012	DNS
1232005-34	B121541	Ba-FW-Oven-ICPMS-Diss	165			USG-SE1201	9/4/2012	DNS
1234002-03	B121541	Sr-FW-Oven-ICPMS-Diss	166			USG-SE1201	9/12/2012	DNS
1234002-03	B121541	Mn-FW-Oven-ICPMS-Diss	167			USG-SE1201	9/12/2012	DNS
1234002-03	B121541	Mg-FW-Oven-ICPMS-Diss	168			USG-SE1201	9/12/2012	DNS
1234002-03	B121541	Ca-FW-Oven-ICPMS-Diss	169			USG-SE1201	9/12/2012	DNS
1234002-03	B121541	Ba-FW-Oven-ICPMS-Diss	170			USG-SE1201	9/12/2012	DNS
1232005-01	B121541	Sr-FW-Oven-ICPMS-Diss	171			USG-SE1201	9/4/2012	DNS
1232005-01	B121541	Mn-FW-Oven-ICPMS-Diss	172			USG-SE1201	9/4/2012	DNS
1232005-01	B121541	Mg-FW-Oven-ICPMS-Diss	173			USG-SE1201	9/4/2012	DNS
1232005-01	B121541	Ca-FW-Oven-ICPMS-Diss	174			USG-SE1201	9/4/2012	DNS
1232005-01	B121541	Ba-FW-Oven-ICPMS-Diss	175			USG-SE1201	9/4/2012	DNS
1200711-CCVF	1200711	QC	176	1228057	-			
1200711-CCBF	1200711	QC	177		-			
1232005-02	B121541	Sr-FW-Oven-ICPMS-Diss	178			USG-SE1201	9/4/2012	DNS
1232005-02	B121541	Mn-FW-Oven-ICPMS-Diss	179			USG-SE1201	9/4/2012	DNS
1232005-02	B121541	Mg-FW-Oven-ICPMS-Diss	180			USG-SE1201	9/4/2012	DNS
1232005-02	B121541	Ca-FW-Oven-ICPMS-Diss	181			USG-SE1201	9/4/2012	DNS
1232005-02	B121541	Ba-FW-Oven-ICPMS-Diss	182			USG-SE1201	9/4/2012	DNS

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121541-DUP1	B121541	QC	183		1232005-02			
B121541-MS1	B121541	QC	184		1232005-02			
B121541-MSD1	B121541	QC	185		1232005-02			
1232005-03	B121541	Sr-FW-Oven-ICPMS-Diss	186			USG-SE1201	9/4/2012	DNS
1232005-03	B121541	Mn-FW-Oven-ICPMS-Diss	187			USG-SE1201	9/4/2012	DNS
1232005-03	B121541	Mg-FW-Oven-ICPMS-Diss	188			USG-SE1201	9/4/2012	DNS
1232005-03	B121541	Ca-FW-Oven-ICPMS-Diss	189			USG-SE1201	9/4/2012	DNS
1232005-03	B121541	Ba-FW-Oven-ICPMS-Diss	190			USG-SE1201	9/4/2012	DNS
1232005-04	B121541	Sr-FW-Oven-ICPMS-Diss	191			USG-SE1201	9/4/2012	DNS
1232005-04	B121541	Mn-FW-Oven-ICPMS-Diss	192			USG-SE1201	9/4/2012	DNS
1232005-04	B121541	Mg-FW-Oven-ICPMS-Diss	193			USG-SE1201	9/4/2012	DNS
1232005-04	B121541	Ca-FW-Oven-ICPMS-Diss	194			USG-SE1201	9/4/2012	DNS
1232005-04	B121541	Ba-FW-Oven-ICPMS-Diss	195			USG-SE1201	9/4/2012	DNS
1232005-05	B121541	Sr-FW-Oven-ICPMS-Diss	196			USG-SE1201	9/4/2012	DNS
1232005-05	B121541	Mn-FW-Oven-ICPMS-Diss	197			USG-SE1201	9/4/2012	DNS
1232005-05	B121541	Mg-FW-Oven-ICPMS-Diss	198			USG-SE1201	9/4/2012	DNS
1232005-05	B121541	Ca-FW-Oven-ICPMS-Diss	199			USG-SE1201	9/4/2012	DNS
1232005-05	B121541	Ba-FW-Oven-ICPMS-Diss	200			USG-SE1201	9/4/2012	DNS
1232005-06	B121541	Sr-FW-Oven-ICPMS-Diss	201			USG-SE1201	9/4/2012	DNS
1232005-06	B121541	Mn-FW-Oven-ICPMS-Diss	202			USG-SE1201	9/4/2012	DNS
1232005-06	B121541	Mg-FW-Oven-ICPMS-Diss	203			USG-SE1201	9/4/2012	DNS
1232005-06	B121541	Ca-FW-Oven-ICPMS-Diss	204			USG-SE1201	9/4/2012	DNS
1232005-06	B121541	Ba-FW-Oven-ICPMS-Diss	205			USG-SE1201	9/4/2012	DNS
1232005-07	B121541	Sr-FW-Oven-ICPMS-Diss	206			USG-SE1201	9/4/2012	DNS
1232005-07	B121541	Mn-FW-Oven-ICPMS-Diss	207			USG-SE1201	9/4/2012	DNS
1232005-07	B121541	Mg-FW-Oven-ICPMS-Diss	208			USG-SE1201	9/4/2012	DNS

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Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-07	B121541	Ca-FW-Oven-ICPMS-Diss	209			USG-SE1201	9/4/2012	DNS
1232005-07	B121541	Ba-FW-Oven-ICPMS-Diss	210			USG-SE1201	9/4/2012	DNS
1232005-08	B121541	Sr-FW-Oven-ICPMS-Diss	211			USG-SE1201	9/4/2012	DNS
1232005-08	B121541	Mn-FW-Oven-ICPMS-Diss	212			USG-SE1201	9/4/2012	DNS
1232005-08	B121541	Mg-FW-Oven-ICPMS-Diss	213			USG-SE1201	9/4/2012	DNS
1232005-08	B121541	Ca-FW-Oven-ICPMS-Diss	214			USG-SE1201	9/4/2012	DNS
1232005-08	B121541	Ba-FW-Oven-ICPMS-Diss	215			USG-SE1201	9/4/2012	DNS
1200711-CCVG	1200711	QC	216	1228057	-			
1200711-CCBG	1200711	QC	217		-			
1232005-09	B121541	Sr-FW-Oven-ICPMS-Diss	218			USG-SE1201	9/4/2012	DNS
1232005-09	B121541	Mn-FW-Oven-ICPMS-Diss	219			USG-SE1201	9/4/2012	DNS
1232005-09	B121541	Mg-FW-Oven-ICPMS-Diss	220			USG-SE1201	9/4/2012	DNS
1232005-09	B121541	Ca-FW-Oven-ICPMS-Diss	221			USG-SE1201	9/4/2012	DNS
1232005-09	B121541	Ba-FW-Oven-ICPMS-Diss	222			USG-SE1201	9/4/2012	DNS
1232005-10	B121541	Sr-FW-Oven-ICPMS-Diss	223			USG-SE1201	9/4/2012	DNS
1232005-10	B121541	Mn-FW-Oven-ICPMS-Diss	224			USG-SE1201	9/4/2012	DNS
1232005-10	B121541	Mg-FW-Oven-ICPMS-Diss	225			USG-SE1201	9/4/2012	DNS
1232005-10	B121541	Ca-FW-Oven-ICPMS-Diss	226			USG-SE1201	9/4/2012	DNS
1232005-10	B121541	Ba-FW-Oven-ICPMS-Diss	227			USG-SE1201	9/4/2012	DNS
1232005-11	B121541	Sr-FW-Oven-ICPMS-Diss	228			USG-SE1201	9/4/2012	DNS
1232005-11	B121541	Mn-FW-Oven-ICPMS-Diss	229			USG-SE1201	9/4/2012	DNS
1232005-11	B121541	Mg-FW-Oven-ICPMS-Diss	230			USG-SE1201	9/4/2012	DNS
1232005-11	B121541	Ca-FW-Oven-ICPMS-Diss	231			USG-SE1201	9/4/2012	DNS
1232005-11	B121541	Ba-FW-Oven-ICPMS-Diss	232			USG-SE1201	9/4/2012	DNS
1232005-12	B121541	Sr-FW-Oven-ICPMS-Diss	233			USG-SE1201	9/4/2012	DNS
1232005-12	B121541	Mn-FW-Oven-ICPMS-Diss	234			USG-SE1201	9/4/2012	DNS

ANALYSIS SEQUENCE

BRL Report 1233038

1200711

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-12	B121541	Mg-FW-Oven-ICPMS-Diss	235			USG-SE1201	9/4/2012	DNS
1232005-12	B121541	Ca-FW-Oven-ICPMS-Diss	236			USG-SE1201	9/4/2012	DNS
1232005-12	B121541	Ba-FW-Oven-ICPMS-Diss	237			USG-SE1201	9/4/2012	DNS
B121541-DUP2	B121541	QC	238		1232005-12			
B121541-MS2	B121541	QC	239		1232005-12			
B121541-MSD2	B121541	QC	240		1232005-12			
1232005-13	B121541	Sr-FW-Oven-ICPMS-Diss	241			USG-SE1201	9/4/2012	DNS
1232005-13	B121541	Mn-FW-Oven-ICPMS-Diss	242			USG-SE1201	9/4/2012	DNS
1232005-13	B121541	Mg-FW-Oven-ICPMS-Diss	243			USG-SE1201	9/4/2012	DNS
1232005-13	B121541	Ca-FW-Oven-ICPMS-Diss	244			USG-SE1201	9/4/2012	DNS
1232005-13	B121541	Ba-FW-Oven-ICPMS-Diss	245			USG-SE1201	9/4/2012	DNS
1232005-14	B121541	Sr-FW-Oven-ICPMS-Diss	246			USG-SE1201	9/4/2012	DNS
1232005-14	B121541	Mn-FW-Oven-ICPMS-Diss	247			USG-SE1201	9/4/2012	DNS
1232005-14	B121541	Mg-FW-Oven-ICPMS-Diss	248			USG-SE1201	9/4/2012	DNS
1232005-14	B121541	Ca-FW-Oven-ICPMS-Diss	249			USG-SE1201	9/4/2012	DNS
1232005-14	B121541	Ba-FW-Oven-ICPMS-Diss	250			USG-SE1201	9/4/2012	DNS
1232005-15	B121541	Sr-FW-Oven-ICPMS-Diss	251			USG-SE1201	9/4/2012	DNS
1232005-15	B121541	Mn-FW-Oven-ICPMS-Diss	252			USG-SE1201	9/4/2012	DNS
1232005-15	B121541	Mg-FW-Oven-ICPMS-Diss	253			USG-SE1201	9/4/2012	DNS
1232005-15	B121541	Ca-FW-Oven-ICPMS-Diss	254			USG-SE1201	9/4/2012	DNS
1232005-15	B121541	Ba-FW-Oven-ICPMS-Diss	255			USG-SE1201	9/4/2012	DNS
1200711-CCVH	1200711	QC	256	1228057	-			
1200711-CCBH	1200711	QC	257		-			
1232005-16	B121541	Sr-FW-Oven-ICPMS-Diss	258			USG-SE1201	9/4/2012	DNS
1232005-16	B121541	Mn-FW-Oven-ICPMS-Diss	259			USG-SE1201	9/4/2012	DNS
1232005-16	B121541	Mg-FW-Oven-ICPMS-Diss	260			USG-SE1201	9/4/2012	DNS

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200711

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-16	B121541	Ca-FW-Oven-ICPMS-Diss	261			USG-SE1201	9/4/2012	DNS
1232005-16	B121541	Ba-FW-Oven-ICPMS-Diss	262			USG-SE1201	9/4/2012	DNS
1232005-17	B121541	Sr-FW-Oven-ICPMS-Diss	263			USG-SE1201	9/4/2012	DNS
1232005-17	B121541	Mn-FW-Oven-ICPMS-Diss	264			USG-SE1201	9/4/2012	DNS
1232005-17	B121541	Mg-FW-Oven-ICPMS-Diss	265			USG-SE1201	9/4/2012	DNS
1232005-17	B121541	Ca-FW-Oven-ICPMS-Diss	266			USG-SE1201	9/4/2012	DNS
1232005-17	B121541	Ba-FW-Oven-ICPMS-Diss	267			USG-SE1201	9/4/2012	DNS
1232005-18	B121541	Sr-FW-Oven-ICPMS-Diss	268			USG-SE1201	9/4/2012	DNS
1232005-18	B121541	Mn-FW-Oven-ICPMS-Diss	269			USG-SE1201	9/4/2012	DNS
1232005-18	B121541	Mg-FW-Oven-ICPMS-Diss	270			USG-SE1201	9/4/2012	DNS
1232005-18	B121541	Ca-FW-Oven-ICPMS-Diss	271			USG-SE1201	9/4/2012	DNS
1232005-18	B121541	Ba-FW-Oven-ICPMS-Diss	272			USG-SE1201	9/4/2012	DNS
1232005-19	B121541	Sr-FW-Oven-ICPMS-Diss	273			USG-SE1201	9/4/2012	DNS
1232005-19	B121541	Mn-FW-Oven-ICPMS-Diss	274			USG-SE1201	9/4/2012	DNS
1232005-19	B121541	Mg-FW-Oven-ICPMS-Diss	275			USG-SE1201	9/4/2012	DNS
1232005-19	B121541	Ca-FW-Oven-ICPMS-Diss	276			USG-SE1201	9/4/2012	DNS
1232005-19	B121541	Ba-FW-Oven-ICPMS-Diss	277			USG-SE1201	9/4/2012	DNS
1232005-20	B121541	Sr-FW-Oven-ICPMS-Diss	278			USG-SE1201	9/4/2012	DNS
1232005-20	B121541	Mn-FW-Oven-ICPMS-Diss	279			USG-SE1201	9/4/2012	DNS
1232005-20	B121541	Mg-FW-Oven-ICPMS-Diss	280			USG-SE1201	9/4/2012	DNS
1232005-20	B121541	Ca-FW-Oven-ICPMS-Diss	281			USG-SE1201	9/4/2012	DNS
1232005-20	B121541	Ba-FW-Oven-ICPMS-Diss	282			USG-SE1201	9/4/2012	DNS
1232005-21	B121541	Sr-FW-Oven-ICPMS-Diss	283			USG-SE1201	9/4/2012	DNS
1232005-21	B121541	Mn-FW-Oven-ICPMS-Diss	284			USG-SE1201	9/4/2012	DNS
1232005-21	B121541	Mg-FW-Oven-ICPMS-Diss	285			USG-SE1201	9/4/2012	DNS
1232005-21	B121541	Ca-FW-Oven-ICPMS-Diss	286			USG-SE1201	9/4/2012	DNS

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Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-21	B121541	Ba-FW-Oven-ICPMS-Diss	287			USG-SE1201	9/4/2012	DNS
1232005-22	B121541	Sr-FW-Oven-ICPMS-Diss	288			USG-SE1201	9/4/2012	DNS
1232005-22	B121541	Mn-FW-Oven-ICPMS-Diss	289			USG-SE1201	9/4/2012	DNS
1232005-22	B121541	Mg-FW-Oven-ICPMS-Diss	290			USG-SE1201	9/4/2012	DNS
1232005-22	B121541	Ca-FW-Oven-ICPMS-Diss	291			USG-SE1201	9/4/2012	DNS
1232005-22	B121541	Ba-FW-Oven-ICPMS-Diss	292			USG-SE1201	9/4/2012	DNS
B121541-DUP3	B121541	QC	293		1232005-22			
B121541-MS3	B121541	QC	294		1232005-22			
B121541-MSD3	B121541	QC	295		1232005-22			
1200711-CCVI	1200711	QC	296	1228057	-			
1200711-CCBI	1200711	QC	297		-			
1232005-23	B121541	Sr-FW-Oven-ICPMS-Diss	298			USG-SE1201	9/4/2012	DNS
1232005-23	B121541	Mn-FW-Oven-ICPMS-Diss	299			USG-SE1201	9/4/2012	DNS
1232005-23	B121541	Mg-FW-Oven-ICPMS-Diss	300			USG-SE1201	9/4/2012	DNS
1232005-23	B121541	Ca-FW-Oven-ICPMS-Diss	301			USG-SE1201	9/4/2012	DNS
1232005-23	B121541	Ba-FW-Oven-ICPMS-Diss	302			USG-SE1201	9/4/2012	DNS
1232005-24	B121541	Sr-FW-Oven-ICPMS-Diss	303			USG-SE1201	9/4/2012	DNS
1232005-24	B121541	Mn-FW-Oven-ICPMS-Diss	304			USG-SE1201	9/4/2012	DNS
1232005-24	B121541	Mg-FW-Oven-ICPMS-Diss	305			USG-SE1201	9/4/2012	DNS
1232005-24	B121541	Ca-FW-Oven-ICPMS-Diss	306			USG-SE1201	9/4/2012	DNS
1232005-24	B121541	Ba-FW-Oven-ICPMS-Diss	307			USG-SE1201	9/4/2012	DNS
1232005-25	B121541	Sr-FW-Oven-ICPMS-Diss	308			USG-SE1201	9/4/2012	DNS
1232005-25	B121541	Mn-FW-Oven-ICPMS-Diss	309			USG-SE1201	9/4/2012	DNS
1232005-25	B121541	Mg-FW-Oven-ICPMS-Diss	310			USG-SE1201	9/4/2012	DNS
1232005-25	B121541	Ca-FW-Oven-ICPMS-Diss	311			USG-SE1201	9/4/2012	DNS
1232005-25	B121541	Ba-FW-Oven-ICPMS-Diss	312			USG-SE1201	9/4/2012	DNS

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BRL Report 1233038

Brooks Rand Labs

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-26	B121541	Sr-FW-Oven-ICPMS-Diss	313			USG-SE1201	9/4/2012	DNS
1232005-26	B121541	Mn-FW-Oven-ICPMS-Diss	314			USG-SE1201	9/4/2012	DNS
1232005-26	B121541	Mg-FW-Oven-ICPMS-Diss	315			USG-SE1201	9/4/2012	DNS
1232005-26	B121541	Ca-FW-Oven-ICPMS-Diss	316			USG-SE1201	9/4/2012	DNS
1232005-26	B121541	Ba-FW-Oven-ICPMS-Diss	317			USG-SE1201	9/4/2012	DNS
1232005-27	B121541	Sr-FW-Oven-ICPMS-Diss	318			USG-SE1201	9/4/2012	DNS
1232005-27	B121541	Mn-FW-Oven-ICPMS-Diss	319			USG-SE1201	9/4/2012	DNS
1232005-27	B121541	Mg-FW-Oven-ICPMS-Diss	320			USG-SE1201	9/4/2012	DNS
1232005-27	B121541	Ca-FW-Oven-ICPMS-Diss	321			USG-SE1201	9/4/2012	DNS
1232005-27	B121541	Ba-FW-Oven-ICPMS-Diss	322			USG-SE1201	9/4/2012	DNS
1232005-28	B121541	Sr-FW-Oven-ICPMS-Diss	323			USG-SE1201	9/4/2012	DNS
1232005-28	B121541	Mn-FW-Oven-ICPMS-Diss	324			USG-SE1201	9/4/2012	DNS
1232005-28	B121541	Mg-FW-Oven-ICPMS-Diss	325			USG-SE1201	9/4/2012	DNS
1232005-28	B121541	Ca-FW-Oven-ICPMS-Diss	326			USG-SE1201	9/4/2012	DNS
1232005-28	B121541	Ba-FW-Oven-ICPMS-Diss	327			USG-SE1201	9/4/2012	DNS
1232005-29	B121541	Sr-FW-Oven-ICPMS-Diss	328			USG-SE1201	9/4/2012	DNS
1232005-29	B121541	Mn-FW-Oven-ICPMS-Diss	329			USG-SE1201	9/4/2012	DNS
1232005-29	B121541	Mg-FW-Oven-ICPMS-Diss	330			USG-SE1201	9/4/2012	DNS
1232005-29	B121541	Ca-FW-Oven-ICPMS-Diss	331			USG-SE1201	9/4/2012	DNS
1232005-29	B121541	Ba-FW-Oven-ICPMS-Diss	332			USG-SE1201	9/4/2012	DNS
1232005-30	B121541	Sr-FW-Oven-ICPMS-Diss	333			USG-SE1201	9/4/2012	DNS
1232005-30	B121541	Mn-FW-Oven-ICPMS-Diss	334			USG-SE1201	9/4/2012	DNS
1232005-30	B121541	Mg-FW-Oven-ICPMS-Diss	335			USG-SE1201	9/4/2012	DNS
1232005-30	B121541	Ca-FW-Oven-ICPMS-Diss	336			USG-SE1201	9/4/2012	DNS
1232005-30	B121541	Ba-FW-Oven-ICPMS-Diss	337			USG-SE1201	9/4/2012	DNS
1232005-31	B121541	Sr-FW-Oven-ICPMS-Diss	338			USG-SE1201	9/4/2012	DNS

ANALYSIS SEQUENCE

BRL Report 1233038

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Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-31	B121541	Mn-FW-Oven-ICPMS-Diss	339			USG-SE1201	9/4/2012	DNS
1232005-31	B121541	Mg-FW-Oven-ICPMS-Diss	340			USG-SE1201	9/4/2012	DNS
1232005-31	B121541	Ca-FW-Oven-ICPMS-Diss	341			USG-SE1201	9/4/2012	DNS
1232005-31	B121541	Ba-FW-Oven-ICPMS-Diss	342			USG-SE1201	9/4/2012	DNS
1232005-32	B121541	Sr-FW-Oven-ICPMS-Diss	343			USG-SE1201	9/4/2012	DNS
1232005-32	B121541	Mn-FW-Oven-ICPMS-Diss	344			USG-SE1201	9/4/2012	DNS
1232005-32	B121541	Mg-FW-Oven-ICPMS-Diss	345			USG-SE1201	9/4/2012	DNS
1232005-32	B121541	Ca-FW-Oven-ICPMS-Diss	346			USG-SE1201	9/4/2012	DNS
1232005-32	B121541	Ba-FW-Oven-ICPMS-Diss	347			USG-SE1201	9/4/2012	DNS
1200711-CCVJ	1200711	QC	348	1228057	-			
1200711-CCBJ	1200711	QC	349		-			
1232005-33	B121541	Sr-FW-Oven-ICPMS-Diss	350			USG-SE1201	9/4/2012	DNS
1232005-33	B121541	Mn-FW-Oven-ICPMS-Diss	351			USG-SE1201	9/4/2012	DNS
1232005-33	B121541	Mg-FW-Oven-ICPMS-Diss	352			USG-SE1201	9/4/2012	DNS
1232005-33	B121541	Ca-FW-Oven-ICPMS-Diss	353			USG-SE1201	9/4/2012	DNS
1232005-33	B121541	Ba-FW-Oven-ICPMS-Diss	354			USG-SE1201	9/4/2012	DNS
1234002-01	B121541	Sr-FW-Oven-ICPMS-Diss	355			USG-SE1201	9/12/2012	DNS
1234002-01	B121541	Mn-FW-Oven-ICPMS-Diss	356			USG-SE1201	9/12/2012	DNS
1234002-01	B121541	Mg-FW-Oven-ICPMS-Diss	357			USG-SE1201	9/12/2012	DNS
1234002-01	B121541	Ca-FW-Oven-ICPMS-Diss	358			USG-SE1201	9/12/2012	DNS
1234002-01	B121541	Ba-FW-Oven-ICPMS-Diss	359			USG-SE1201	9/12/2012	DNS
1234002-02	B121541	Sr-FW-Oven-ICPMS-Diss	360			USG-SE1201	9/12/2012	DNS
1234002-02	B121541	Mn-FW-Oven-ICPMS-Diss	361			USG-SE1201	9/12/2012	DNS
1234002-02	B121541	Mg-FW-Oven-ICPMS-Diss	362			USG-SE1201	9/12/2012	DNS
1234002-02	B121541	Ca-FW-Oven-ICPMS-Diss	363			USG-SE1201	9/12/2012	DNS
1234002-02	B121541	Ba-FW-Oven-ICPMS-Diss	364			USG-SE1201	9/12/2012	DNS

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200711

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121541-DUP4	B121541	QC	365		1234002-02			
B121541-MS4	B121541	QC	366		1234002-02			
B121541-MSD4	B121541	QC	367		1234002-02			
1234002-04	B121541	Sr-FW-Oven-ICPMS-Diss	368			USG-SE1201	9/12/2012	DNS
1234002-04	B121541	Mn-FW-Oven-ICPMS-Diss	369			USG-SE1201	9/12/2012	DNS
1234002-04	B121541	Mg-FW-Oven-ICPMS-Diss	370			USG-SE1201	9/12/2012	DNS
1234002-04	B121541	Ca-FW-Oven-ICPMS-Diss	371			USG-SE1201	9/12/2012	DNS
1234002-04	B121541	Ba-FW-Oven-ICPMS-Diss	372			USG-SE1201	9/12/2012	DNS
1200711-CCVK	1200711	QC	373	1228057	-			
1200711-CCBK	1200711	QC	374		-			

ICP-MS Analysis Benchsheet

Batch No: B121541, B121547, B121544, B121703
B121546, B121724

BR-0060 standard / **DRC mode (circle one)**

(BRL procedure for the analysis of samples by EPA Methods 1638, 200.8, 6020A, and 1640)

Analyst: MEL Date: 9/14/2012

Instrument ID: ICPMS1 cHNO3 ID: 1220048 cHCl ID: NA

Calibration recorded in LIMS Int Std: 1213014 SEQ: 1200711

LOD/LO & study uploaded to S1200711 MEL 9/17/12

A/S #	Batch	Sample ID	Dilution	Comments
1		warm up		
1		warm up		
1		warm up		
1		SEQ-ICB1		
2		SEQ-CAL1		1228062
3		SEQ-CAL2		1228061
4		SEQ-CAL3		1228060
5		SEQ-CAL4		1228059
6		SEQ-CAL5		1228058
7		SEQ-CAL6		1228057
8		SEQ-CAL7		1228056
9		SEQ-CAL8		1228055
1		SEQ-ICB2		*No Sb, Cd114 low pt out, Th top 3 pts out*
10		SEQ-ICV1		1217029
1		SEQ-ICB3		
101		SEQ-IBL1		
102		SEQ-IBL2		
103		SEQ-IBL3		
104		SEQ-IBL4		
105		SEQ-SCV1	5x	NIST 1643e 1202032-1215030
5		SEQ-CCV1		1228059
1		SEQ-CCB1		
106		12-244A		250ul HDPE Bottle; All metals
107		12-244B		250ul HDPE Bottle; All metals
108		12-244C		250ul HDPE Bottle; All metals
109		12-244D		250ul HDPE Bottle; All metals
110		12-244E		250ul HDPE Bottle; All metals
111		12-244F		250ul HDPE Bottle; All metals
112		12-244G		250ul HDPE Bottle; All metals
113		12-244H		250ul HDPE Bottle; All metals
114		12-244I		250ul HDPE Bottle; All metals
115		12-244J		250ul HDPE Bottle; All metals
116		12-244K		250ul HDPE Bottle; All metals
117		12-244L		250ul HDPE Bottle; All metals
118		12-244M		250ul HDPE Bottle; All metals
119		12-244N		250ul HDPE Bottle; All metals
120		12-244O		250ul HDPE Bottle; All metals
121		12-244P		250ul HDPE Bottle; All metals
122		12-235DIW		250ml Tubing; Cu, Ca, Mg, Se
123		12-235		250ml Tubing; Cu, Ca, Mg, Se

*16 injections
 → for Sb testing
 Sb does not recover
 in ICV Sb omitted
 from Analysis - SCV1
 included
 TMM
 9/18/12*

124		12-240DIW		250ml Tubing; ORAP Metals
125		12-240		250ml Tubing; ORAP Metals
126		12-248DIW		2.5gal Carboy; ORAP Metals
127		12-248A		2.5gal Carboy; ORAP Metals
128		12-248B		2.5gal Carboy; ORAP Metals
129		12-248C		2.5gal Carboy; ORAP Metals
130		12-248A In House		10L Carboy; All metals
131		12-248B In House		10L Carboy; All metals
132		12-248C In House		10L Carboy; All metals
133		SatWastePrep	1000x	250ml HDPE Bottle; All metals
134		SatWasteRec	1000x	250ml HDPE Bottle; All metals
5		SEQ-CCV2		1228059
1		SEQ-CCB2		
135	B121724	B121724-BLK1		
136	B121724	B121724-BLK2		
137	B121724	B121724-BLK3		
138	B121724	B121724-BLK4		
5		SEQ-CCV3		1228059
1		SEQ-CCB3		
139	B121724	B121724-BS1		IPR1
140	B121724	B121724-BS2		IPR2
141	B121724	B121724-BS3		IPR3
142	B121724	B121724-BS4		IPR4
143	B121724	B121724-BS5		LOD1
144	B121724	B121724-BS6		LOD2
145	B121724	B121724-BS7		LOD3
146	B121724	B121724-BS8		LOD4
5		SEQ-CCV4		1228059
1		SEQ-CCB4		
147	B121703	B121703-BLK1		
148	B121703	B121703-BLK2		
149	B121703	B121703-BLK3		
150	B121703	B121703-BLK4		
151	B121703	B121703-BS1		
152	B121703	1233033-01RE2	5x	
153	B121703	1233033-02RE2	5x	
154	B121703	B121703-DUP1	5x	1233033-02RE2
155	B121703	B121703-MS1	5x	500ul of 1227049 up to 5ml
156	B121703	B121703-MSD1	5x	500ul of 1227049 up to 5ml
5		SEQ-CCV5		1228059
1		SEQ-CCB5		
157	B121703	1233033-03RE2	5x	
426	B121703	1233033-01RE3		
427	B121703	1233033-02RE3		
428	B121703	B121703-DUP2		1233033-02RE3
429	B121703	B121703-MS2		200ul of 1227049 up to 5ml
430	B121703	B121703-MSD2		200ul of 1227049 up to 5ml
431	B121703	1233033-03RE3		
5		SEQ-CCV6		1228059
1		SEQ-CCB6		
158	B121546	B121546-BLK1	10x	
159	B121546	B121546-BLK2	10x	

201	B121546	B121546-BLK3	10x	
202	B121546	B121546-BLK4	10x	
203	B121546	B121546-BS1	10x	
204	B121546	B121546-SRM1	10x	
205	B121546	B121546-SRM2	10x	
206	B121546	1234009-01	10x	
207	B121546	1234009-02	10x	
208	B121546	1234009-03	10x	
6		SEQ-CCV7		1228058
1		SEQ-CCB7		
209	B121546	1234009-04	10x	
210	B121546	1234009-05	10x	
211	B121546	1234009-06	10x	
212	B121546	1234009-07	10x	
213	B121546	1234009-08	10x	
214	B121546	1234009-09	10x	
215	B121546	1234009-10	10x	
216	B121546	B121546-DUP1	10x	
217	B121546	B121546-MS1	10x	
218	B121546	B121546-MSD1	10x	
6		SEQ-CCV8		1228058
1		SEQ-CCB8		
219	B121546	1234009-11	10x	
220	B121546	1234009-12	10x	
221	B121546	1234009-13	10x	
222	B121546	B121546-DUP2	10x	
223	B121546	B121546-MS2	10x	
224	B121546	B121546-MSD2	10x	
225	B121546	1234009-27	10x	
226	B121546	1234009-28	10x	
227	B121546	1234009-29	10x	
6		SEQ-CCV9		1228058
1		SEQ-CCB9		
228	B121546	B121546-DUP3	10x	
229	B121546	B121546-MS3	10x	
230	B121546	B121546-MSD3	10x	
231	B121546	1234009-32	10x	
232	B121546	1234009-33	10x	
233	B121546	1234009-34	10x	
234	B121546	1234009-35	10x	
235	B121546	1234009-36	10x	
236	B121546	1234009-37	10x	
237	B121546	1234009-38	10x	
6		SEQ-CCVA		1228058
1		SEQ-CCBA		
238	B121544	B121544-BLK1	5x	
239	B121544	B121544-BLK2	5x	
240	B121544	B121544-BLK3	5x	
241	B121544	B121544-BLK4	5x	
242	B121544	0944029-92	5x	
243	B121544	B121544-MS3	5x	
244	B121544	B121544-BS1	5x	

245	B121544	B121544-SRM1	5x	
246	B121544	1233038-04	5x	
247	B121544	1233038-05	5x	
6		SEQ-CCVB		1228058
1		SEQ-CCBB		
248	B121544	1233038-06	5x	
249	B121544	1233038-07	5x	
250	B121544	1233038-11	5x	
251	B121544	1233038-12	5x	
252	B121544	B121544-DUP2	5x	
253	B121544	B121544-MS2	5x	
254	B121544	B121544-MSD2	5x	
6		SEQ-CCVC		1228058
1		SEQ-CCBC		
255	B121547	1234009-14	50x	Use IBLs for BLKS
256	B121547	1234009-15	50x	
257	B121547	1234009-16	50x	
258	B121547	1234009-17	50x	
259	B121547	1234009-18	50x	
260	B121547	1234009-19	50x	
301	B121547	1234009-20	50x	
308	B121547	B121547-DUP1	50x	1234009-16
309	B121547	B121547-MS1	50x	150ul of 1237029 up to 5ml
310	B121547	B121547-MSD1	50x	150ul of 1237029 up to 5ml
6		SEQ-CCVD		1228058
1		SEQ-CCBD		
302	B121547	1234009-21	50x	
303	B121547	1234009-22	50x	
304	B121547	1234009-23	50x	
305	B121547	1234009-24	50x	
306	B121547	1234009-25	50x	
307	B121547	1234009-26	50x	
311	B121547	B121547-DUP2	50x	1234009-23
312	B121547	B121547-MS2	50x	150ul of 1237029 up to 5ml
313	B121547	B121547-MSD2	50x	150ul of 1237029 up to 5ml
6		SEQ-CCVE		1228058
1		SEQ-CCBE		
308	B121541	B121541-BLK1		
309	B121541	B121541-BLK2		
310	B121541	B121541-BLK3		
311	B121541	B121541-BLK4		
312	B121541	B121541-BS1		
313	B121541	1232005-34		
314	B121541	1234002-03		
315	B121541	1232005-01	200x	
7		SEQ-CCVF		1228057
1		SEQ-CCBF		
316	B121541	1232005-02	200x	
317	B121541	B121541-DUP1	200x	1232005-02
318	B121541	B121541-MS1	200x	1ml of 1237130 up to 5ml
319	B121541	B121541-MSD1	200x	1ml of 1237130 up to 5ml
320	B121541	1232005-03	200x	

321	B121541	1232005-04	200x	
322	B121541	1232005-05	200x	
323	B121541	1232005-06	200x	
324	B121541	1232005-07	200x	
325	B121541	1232005-08	200x	
7		SEQ-CCVG		1228057
10		SEQ-CCBG		
326	B121541	1232005-09	200x	
327	B121541	1232005-10	200x	
328	B121541	1232005-11	200x	
329	B121541	1232005-12	200x	
330	B121541	B121541-DUP2	200x	1232005-12
331	B121541	B121541-MS2	200x	1ml of 1237130 up to 5ml
332	B121541	B121541-MSD2	200x	1ml of 1237130 up to 5ml
333	B121541	1232005-13	200x	
334	B121541	1232005-14	200x	
335	B121541	1232005-15	200x	
7		SEQ-CCVH		1228057
10		SEQ-CCBH		
336	B121541	1232005-16	200x	
337	B121541	1232005-17	200x	
338	B121541	1232005-18	200x	
339	B121541	1232005-19	200x	
340	B121541	1232005-20	200x	
341	B121541	1232005-21	200x	
342	B121541	1232005-22	200x	
343	B121541	B121541-DUP3	200x	1232005-22
344	B121541	B121541-MS3	200x	1ml of 1237130 up to 5ml
345	B121541	B121541-MSD3	200x	1ml of 1237130 up to 5ml
7		SEQ-CCVI		1228057
10		SEQ-CCBI		
346	B121541	1232005-23	200x	
347	B121541	1232005-24	200x	
348	B121541	1232005-25	200x	
349	B121541	1232005-26	200x	
350	B121541	1232005-27	200x	
351	B121541	1232005-28	200x	
352	B121541	1232005-29	200x	
353	B121541	1232005-30	200x	
354	B121541	1232005-31	200x	
413	B121541	1232005-32	200x	
7		SEQ-CCVJ		1228057
10		SEQ-CCBJ		
414	B121541	1232005-33	200x	
415	B121541	1234002-01	200x	
416	B121541	1234002-02	200x	
417	B121541	B121541-DUP4	200x	1234002-02
418	B121541	B121541-MS4	200x	1ml of 1237130 up to 5ml
419	B121541	B121541-MSD4	200x	1ml of 1237130 up to 5ml
425	B121541	1234002-04	200x	
7		SEQ-CCVK		1228057
10		SEQ-CCBK		

434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		

Trace Metals Method BR-0066 Rev 002 (ICP-MS)
Sea Water Sample Preparation by Reductive Co-Precipitation

Batch #(s): B121544, 1483

Page 1 of 1

Balance ID: BL-03

Preparation Date and Time*: 8/27/12 1455

Filtration Date: 8/29/12

Date and Time of Finished Preparation: 8/30/12 1750

Filtered By: CCE

Prepared By: CCE

* Time is when the first reagents are added.

#	Sample ID	Sample Volume (mL)†
1	BLK1	200.00
2	BLK2	200.59
3	BLK3	200.00
4	BLK4	200.42
5	0944029-92	200.44
6	B121544 MS3 / B121483 MSZ	200.51
7	BS1	200.66
8	SRM1 (SLEW-3)	200.41
9	1231040-04	40.88/200.21
10	B121544 DUP1	40.88/200.21
11	MS1	40.20/200.36
12	MSD1	40.47/200.34
13	1231040-04	40.88/200.21
14	1231040-04	40.88/200.21
15	1231040-04	40.88/200.21
16	1233038-04	40.67/200.05

#	Sample ID	Sample Volume (mL)†
17	1233038-05	40.05/200.12
18	-06	40.05/200.13
19	-07	40.10/200.03
20	-11	40.30/200.09
21	-12	40.04/200.25
22	B121544 DUP2	40.06/200.58
23	MS2	40.37/200.22
24	MSD2	40.06/200.74
25	1229011-01 REZ	100.32/200.28
26	B121483 MSZ	40.06/200.58
27	MS1	100.38/200.03
28	1229011-02 REZ	200.59
29	-03 REZ	200.81
30	1230005-02 RE4	10.24/200.69
31	1230005-02 RE4	10.24/200.69
32	1230005-02 RE4	10.24/200.69

† Sample vol. recorded in LIMS with three significant figures.

Sample ID	Spike ID	Vol. Added (mL)	Analyte/Concentration
B121544 BS1, MS/MSD1-2, MS3	1235005	0.0100	Se 0.1 ppm
B121483 BS1, MS1-2	1212064	0.0100	Sb 1 ppm

Spike Witness Initials/Date:
Tm
8/27/12

Bottle lot: 12-210 SRM-Matrix-ID: SRM1-SLEW-3-1220064 HNO₃ ID: 1220056

NaBH₄ ID: 1231008 NH₄OH ID: 1217019 Filter Lot #: 183960

H₂O₂ ID: 1107099 Fe/Pd/La/Te ID: 1212026 Final Dilution Vol.: 10 mL

Target Digestion Temps/Times: 120 °C for 5 minutes x 2 then 150 °C for 15-20 minutes

Digestion Temperatures*/Times: 127 °C 1635/1646 then 127 °C 1458/1700 then 145 °C 1735/1750

Thermometer ID: 010396

* Both measured and corrected temperatures must be recorded.

Comments: Δ: prepped at 5x diln, as per PM. * source: 1233038-05.
** Full QC not performed due to limited sample vol. prepped @ 2x diln as per PM. †: pipette used: HU 01551. ‡: Sample lost during filtration.
⊗ Samples spiked w/ 0.1 mL Se 0.1 ppm prior to addition of reagents & 0.090 mL Sb 1 ppm ~1 hr after final reagent (Na BH₄ soln) added. Fake Spike ID #1235007.
 NOTE: All samples have been adjusted to a pH of 9 prior to filtration as described in BRL SOP BR-0066 and verified by pH paper.

Any sample requiring more or less adjustment than described in the SOP has been noted with a full description of how it differed from the other samples. •: 1233038-12 & B121544 QC set 2 extra thick w/ precipitate, filtration takes 7 min

B121544, 1483

RP

Samples spiked: BSI, MS/MSD1-2, MS3

B1544*

Element	Conc. (µg/L)	vol to spike directly to 40mL sample	ppm	LIMS ID
Se	2.500	0.010 0.100	10 1	see below

u 9/27/12

Samples spiked: BSI, MS1-2

B1483

Element	Conc. (µg/L)	vol to spike directly to 20mL 100mL sample	ppm	LIMS ID
Sb	0.500	0.100 0.050	1	1212064

* Se underspiked w/ 0.1 mL Se 0.1 ppm (#1235005) prior to addition of reagents. Samples spiked w/ additional 0.090 mL Se 1 ppm (#1235006) ~1 hr following addition of final reagent (NaBH₄ sln). Fake spike # 1235007.

Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT

Batch ID:

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Tuning File: C:\Elandata\Tuning\Default.tun

Optimization File: C:\Elandata\Optimize\Default.dac

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Calibration Type: External Calibration

Calibration

Analyte	MassCurve Type	Slope	Intercept	Correlation Coefficient	Std 1 Conc
Li	7Weighted Linear	0.001	-0.000	0.999292	0.150000
Be	9Weighted Linear	0.000	-0.000	0.999192	0.050000
B	11Weighted Linear	0.000	-0.000	0.999636	1.000000
Na	23Weighted Linear	0.004	0.009	0.997958	15.000000
Mg	24Weighted Linear	0.003	0.001	0.998649	3.000000
Al	27Weighted Linear	0.004	0.000	0.998729	1.000000
K	39Weighted Linear	0.009	-0.002	0.996894	4.000000
Ca	44Weighted Linear	0.000	-0.001	0.997441	30.000000
Sc	45Weighted Linear				
Ti	47Weighted Linear	0.001	-0.000	0.999512	0.200000
Ti	48Weighted Linear	0.008	0.000	0.999388	0.200000
V	51Weighted Linear	0.010	-0.000	0.999959	0.150000
Cr	52Weighted Linear	0.008	-0.000	0.999022	0.150000
Cr	53Weighted Linear	0.001	-0.000	0.999684	0.150000
Mn	55Weighted Linear	0.011	0.000	0.999277	0.050000
Fe	54Weighted Linear	0.001	-0.001	0.996692	5.000000
Fe	57Weighted Linear	0.000	0.000	0.998911	5.000000
Co	59Weighted Linear	0.009	0.000	0.999696	0.100000
Ni	60Weighted Linear	0.002	0.000	0.999314	0.200000
Ni	62Weighted Linear	0.000	0.000	0.999200	0.200000
Cu	65Weighted Linear	0.004	0.000	0.999470	0.100000
Cu	63Weighted Linear	0.008	-0.000	0.999323	0.100000
Zn	66Weighted Linear	0.002	-0.000	0.999582	0.200000
Zn	68Weighted Linear	0.002	-0.000	0.999390	0.200000
Ge	74Weighted Linear				
As	75Weighted Linear	0.003	-0.000	0.999518	0.200000
As-1	75Weighted Linear	0.003	-0.000	0.999754	0.200000
Se	77Weighted Linear	0.000	0.000	0.998759	0.200000
Se	82Weighted Linear	0.000	-0.000	0.998845	0.200000
Sr	88Weighted Linear	0.008	0.000	0.998825	0.050000
Y	89Weighted Linear	0.002	-0.000	0.401263	0.010000
Mo	98Weighted Linear	0.002	-0.000	0.999901	0.020000
Ag	107Weighted Linear	0.004	-0.000	0.999025	0.020000
Ag	109Weighted Linear	0.003	-0.000	0.999746	0.020000
Cd	111Weighted Linear	0.001	-0.000	0.999064	0.010000
Cd	114Weighted Linear	0.002	0.000	0.999831	0.010000
In	115Weighted Linear				
Sn	120Weighted Linear	0.004	0.000	0.997074	0.150000
Sb	121Weighted Linear	0.003	-0.001	0.999765	0.020000

Cs	133Weighted Linear	0.011	0.000	0.999799	0.050000
Ba	138Weighted Linear	0.008	0.000	0.999701	0.050000
Ce	140Weighted Linear	0.010	-0.000	0.999796	0.010000
Tm	169Weighted Linear				
Tl	205Weighted Linear	0.007	0.000	0.999339	0.010000
Pb	208Weighted Linear	0.009	0.000	0.998868	0.025000
Bi	209Weighted Linear	0.007	-0.000	0.999546	0.050000
Th	232Weighted Linear	0.005	-0.000	0.995317	0.020000
U	238Weighted Linear	0.009	0.000	0.999496	0.010000

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:41:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7		41	8	19.6			ug/L
Be	9		33	4	12.4			ug/L
B	11		169	3	1.8			ug/L
Na	23		6859	307	4.5			ug/L
Mg	24		156	19	12.2			ug/L
Al	27		891	19	2.2			ug/L
K	39		409328	5263	1.3			ug/L
Ca	44		69014	161	0.2			ug/L
Sc	45		1256607	59094	4.7			ug/L
Ti	47		283	21	7.6			ug/L
Ti	48		-5947	13	0.2			ug/L
V	51		5985	58	1.0			ug/L
Cr	52		6084	185	3.0			ug/L
Cr	53		1948	24	1.2			ug/L
Mn	55		361	21	5.8			ug/L
Fe	54		51442	928	1.8			ug/L
Fe	57		3551	118	3.3			ug/L
Co	59		37	7	17.7			ug/L
Ni	60		52	7	13.7			ug/L
Ni	62		215	8	3.7			ug/L
Cu	65		54	9	16.3			ug/L
Cu	63		85	7	7.8			ug/L
Zn	66		245	13	5.3			ug/L
Zn	68		228	22	9.8			ug/L
Ge	74		709212	25058	3.5			ug/L
As	75		154	47	30.4			ug/L
As-1	75		7631	176	2.3			ug/L
Se	77		105	15	14.6			ug/L
Se	82		-3	9	363.8			ug/L
Sr	88		94	8	8.6			ug/L
Y	89		67	5	6.7			ug/L
Mo	98		144	68	47.0			ug/L
Ag	107		37	2	5.6			ug/L
Ag	109		38	9	22.9			ug/L
Cd	111		24	4	15.0			ug/L
Cd	114		20	18	91.7			ug/L

>	In	115	3160654	42379	1.3	ug/L
	Sn	120	17270	551	3.2	ug/L
	Sb	121	224	92	40.9	ug/L
	Cs	133	20	3	15.0	ug/L
	Ba	138	86	11	12.3	ug/L
	Ce	140	36	4	11.3	ug/L
>	Tm	169	2730830	36832	1.3	ug/L
	Tl	205	25	13	51.4	ug/L
	Pb	208	143	17	11.6	ug/L
	Bi	209	261	153	58.8	ug/L
	Th	232	199	60	30.2	ug/L
	U	238	16	2	13.3	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:45:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 2

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL1.041

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	201	10	4.9	0.000124	0.1455	ug/L
Be	9	33	52	2	3.0	0.000014	0.0494	ug/L
B	11	169	588	43	7.3	0.000326	0.9847	ug/L
Na	23	6859	98422	1282	1.3	0.071627	14.1575	ug/L
Mg	24	156	12126	267	2.2	0.009372	2.8710	ug/L
Al	27	891	6258	80	1.3	0.004192	0.9550	ug/L
K	39	409328	454358	5564	1.2	0.030094	3.6714	ug/L
Ca	44	69014	78079	265	0.3	0.006232	29.0268	ug/L
Sc	45	1256607	1277110	26648	2.1	1277109.774299		ug/L
Ti	47	283	454	27	6.0	0.000130	0.1943	ug/L
Ti	48	-5947	-3877	85	2.2	0.001696	0.1982	ug/L
V	51	5985	7581	76	1.0	0.001175	0.1488	ug/L
Cr	52	6084	7566	268	3.5	0.001084	0.1447	ug/L
Cr	53	1948	2106	39	1.9	0.000100	0.1520	ug/L
Mn	55	361	1087	34	3.1	0.000564	0.0491	ug/L
Fe	54	51442	54203	2159	4.0	0.001494	4.6167	ug/L
Fe	57	3551	5042	95	1.9	0.001124	4.8555	ug/L
Co	59	37	1172	23	2.0	0.000888	0.0989	ug/L
Ni	60	52	529	21	3.9	0.000373	0.1958	ug/L
Ni	62	215	291	11	3.7	0.000057	0.1934	ug/L
Cu	65	54	344	32	9.3	0.000404	0.0992	ug/L
Cu	63	85	628	16	2.5	0.000757	0.0981	ug/L
Zn	66	245	475	2	0.4	0.000318	0.1997	ug/L
Zn	68	228	390	24	6.1	0.000223	0.1953	ug/L
Ge	74	709212	715573	8581	1.2	715573.452950		ug/L
As	75	154	509	52	10.3	0.000494	0.2006	ug/L
As-1	75	7631	7856	137	1.7	0.000218	0.1994	ug/L
Se	77	105	135	10	7.5	0.000010	0.2071	ug/L
Se	82	-3	33	12	35.6	0.000012	0.1918	ug/L
Sr	88	94	1420	12	0.8	0.000429	0.0487	ug/L
Y	89	67	59	9	14.7	-0.000002	0.0122	ug/L
Mo	98	144	240	63	26.2	0.000032	0.0200	ug/L
Ag	107	37	227	11	4.6	0.000062	0.0192	ug/L
Ag	109	38	236	32	13.4	0.000064	0.0198	ug/L
Cd	111	24	47	10	21.6	0.000008	0.0097	ug/L
Cd	114	20	48	11	23.1	0.000009	0.0026	ug/L

>	In	115	3160654	3095896	41993	1.4	3095895.561283		ug/L
	Sn	120	17270	19805	94	0.5	0.000934	0.1604	ug/L
	Sb	121	224	284	34	11.9	0.000021	0.3000	ug/L
	Cs	133	20	1745	30	1.7	0.000557	0.0496	ug/L
	Ba	138	86	1356	83	6.1	0.000411	0.0498	ug/L
	Ce	140	36	335	11	3.3	0.000097	0.0099	ug/L
>	Tm	169	2730830	2698855	17494	0.6	2698855.302159		ug/L
	Tl	205	25	225	7	3.0	0.000074	0.0100	ug/L
	Pb	208	143	751	31	4.1	0.000226	0.0243	ug/L
	Bi	209	261	1165	110	9.4	0.000336	0.0500	ug/L
	Th	232	199	424	51	11.9	0.000084	0.0206	ug/L
	U	238	16	272	10	3.6	0.000095	0.0099	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:49:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL2.042

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	387	20	5.2	0.000276	0.3197	ug/L
Be	9	33	71	4	5.1	0.000031	0.1030	ug/L
B	11	169	1057	14	1.3	0.000710	2.0612	ug/L
Na	23	6859	201073	1379	0.7	0.155245	32.9264	ug/L
Mg	24	156	25466	344	1.4	0.020232	6.4464	ug/L
Al	27	891	12558	126	1.0	0.009327	2.1637	ug/L
K	39	409328	506015	6200	1.2	0.078646	9.2928	ug/L
Ca	44	69014	87488	239	0.3	0.015001	63.1399	ug/L
Sc	45	1256607	1251443	22367	1.8	1251443.239336		ug/L
Ti	47	283	652	27	4.1	0.000296	0.4250	ug/L
Ti	48	-5947	-1598	58	3.6	0.003455	0.4104	ug/L
V	51	5985	9292	232	2.5	0.002662	0.3053	ug/L
Cr	52	6084	9134	99	1.1	0.002459	0.3202	ug/L
Cr	53	1948	2229	98	4.4	0.000231	0.2941	ug/L
Mn	55	361	1809	64	3.5	0.001159	0.1029	ug/L
Fe	54	51442	58148	1540	2.6	0.005523	11.4769	ug/L
Fe	57	3551	6519	77	1.2	0.002384	10.5090	ug/L
Co	59	37	2272	27	1.2	0.001787	0.2037	ug/L
Ni	60	52	1035	12	1.1	0.000786	0.4137	ug/L
Ni	62	215	367	23	6.3	0.000122	0.4241	ug/L
Cu	65	54	625	17	2.7	0.000802	0.2033	ug/L
Cu	63	85	1224	22	1.8	0.001599	0.2071	ug/L
Zn	66	245	761	49	6.4	0.000725	0.3996	ug/L
Zn	68	228	630	38	6.0	0.000563	0.4191	ug/L
Ge	74	709212	712177	9791	1.4	712177.075244		ug/L
As	75	154	924	38	4.1	0.001082	0.3978	ug/L
As-1	75	7631	8230	77	0.9	0.000799	0.4044	ug/L
Se	77	105	159	3	1.9	0.000018	0.3681	ug/L
Se	82	-3	83	18	21.4	0.000027	0.4328	ug/L
Sr	88	94	2852	8	0.3	0.000887	0.1046	ug/L
Y	89	67	53	7	12.5	-0.000004	0.0113	ug/L
Mo	98	144	364	26	7.2	0.000072	0.0403	ug/L
Ag	107	37	492	20	4.1	0.000146	0.0433	ug/L
Ag	109	38	460	32	7.0	0.000136	0.0408	ug/L
Cd	111	24	79	3	3.9	0.000018	0.0215	ug/L
Cd	114	20	156	21	13.4	0.000044	0.0201	ug/L

>	In	115	3160654	3109069	17882	0.6	3109068.694895		ug/L
	Sn	120	17270	21018	395	1.9	0.001297	0.2626	ug/L
	Sb	121	224	392	11	2.8	0.000055	0.3133	ug/L
	Cs	133	20	3523	68	1.9	0.001127	0.1018	ug/L
	Ba	138	86	2645	13	0.5	0.000824	0.1012	ug/L
	Ce	140	36	666	21	3.2	0.000203	0.0205	ug/L
>	Tm	169	2730830	2709943	34058	1.3	2709942.625047		ug/L
	Tl	205	25	397	21	5.2	0.000137	0.0197	ug/L
	Pb	208	143	1430	38	2.7	0.000476	0.0526	ug/L
	Bi	209	261	2137	8	0.4	0.000693	0.1008	ug/L
	Th	232	199	669	185	27.7	0.000173	0.0382	ug/L
	U	238	16	545	26	4.7	0.000195	0.0205	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL3

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:53:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL3.043

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	1635	49	3.0	0.001265	1.4549	ug/L
Be	9	33	222	14	6.5	0.000150	0.4965	ug/L
B	11	169	4608	131	2.8	0.003523	9.9496	ug/L
Na	23	6859	933843	20025	2.1	0.735717	163.2202	ug/L
Mg	24	156	121830	200	0.2	0.096563	31.5769	ug/L
Al	27	891	56426	792	1.4	0.044070	10.3414	ug/L
K	39	409328	847450	2242	0.3	0.346812	40.3414	ug/L
Ca	44	69014	168048	1603	1.0	0.078448	309.9630	ug/L
Sc	45	1256607	1260076	7123	0.6	1260075.720043		ug/L
Ti	47	283	2036	39	1.9	0.001391	1.9436	ug/L
Ti	48	-5947	14228	87	0.6	0.016024	1.9262	ug/L
V	51	5985	23562	90	0.4	0.013936	1.4919	ug/L
Cr	52	6084	21018	460	2.2	0.011839	1.5173	ug/L
Cr	53	1948	3581	139	3.9	0.001292	1.4406	ug/L
Mn	55	361	7548	189	2.5	0.005703	0.5139	ug/L
Fe	54	51442	87745	2620	3.0	0.028703	50.9497	ug/L
Fe	57	3551	18039	258	1.4	0.011491	51.3690	ug/L
Co	59	37	10982	206	1.9	0.008686	1.0087	ug/L
Ni	60	52	4995	61	1.2	0.003922	2.0695	ug/L
Ni	62	215	960	29	3.0	0.000591	2.0656	ug/L
Cu	65	54	2771	23	0.8	0.003801	0.9885	ug/L
Cu	63	85	5647	78	1.4	0.007779	1.0073	ug/L
Zn	66	245	3101	37	1.2	0.003992	2.0077	ug/L
Zn	68	228	2309	53	2.3	0.002906	1.9604	ug/L
Ge	74	709212	715489	24985	3.5	715488.701386		ug/L
As	75	154	4227	133	3.1	0.005699	1.9456	ug/L
As-1	75	7631	11342	38	0.3	0.005105	1.9232	ug/L
Se	77	105	413	22	5.4	0.000097	2.0708	ug/L
Se	82	-3	411	21	5.1	0.000131	2.0029	ug/L
Sr	88	94	13421	92	0.7	0.004213	0.5103	ug/L
Y	89	67	61	6	9.7	-0.000002	0.0123	ug/L
Mo	98	144	1341	63	4.7	0.000378	0.1967	ug/L
Ag	107	37	2205	53	2.4	0.000685	0.1961	ug/L
Ag	109	38	2162	33	1.5	0.000671	0.1978	ug/L
Cd	111	24	275	20	7.2	0.000079	0.0942	ug/L
Cd	114	20	643	36	5.6	0.000197	0.0973	ug/L

>	In	115	3160654	3163603	45649	1.4	3163602.679216		ug/L
	Sn	120	17270	33964	781	2.3	0.005273	1.3821	ug/L
	Sb	121	224	1279	122	9.6	0.000333	0.4208	ug/L
	Cs	133	20	17082	174	1.0	0.005394	0.4927	ug/L
	Ba	138	86	12625	53	0.4	0.003964	0.4923	ug/L
	Ce	140	36	3111	35	1.1	0.000972	0.0972	ug/L
>	Tm	169	2730830	2744551	29297	1.1	2744551.443001		ug/L
	Tl	205	25	1891	97	5.1	0.000679	0.1023	ug/L
	Pb	208	143	6358	150	2.4	0.002264	0.2553	ug/L
	Bi	209	261	9518	453	4.8	0.003372	0.4821	ug/L
	Th	232	199	2656	1101	41.5	0.000892	0.1799	ug/L
	U	238	16	2622	31	1.2	0.000950	0.1000	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL4

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:57:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL4.044

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	2772	50	1.8	0.002167	2.4909	ug/L
Be	9	33	386	22	5.6	0.000280	0.9241	ug/L
B	11	169	22889	178	0.8	0.018029	50.6333	ug/L
Na	23	6859	2737222	27452	1.0	2.166846	484.4535	ug/L
Mg	24	156	798098	4325	0.5	0.633233	208.2639	ug/L
Al	27	891	278667	2505	0.9	0.220443	51.8566	ug/L
K	39	409328	1513219	10905	0.7	0.875136	101.5113	ug/L
Ca	44	69014	414212	2055	0.5	0.273772	1069.8168	ug/L
Sc	45	1256607	1260287	16970	1.3	1260287.442638		ug/L
Ti	47	283	4806	41	0.9	0.003589	4.9937	ug/L
Ti	48	-5947	45724	499	1.1	0.041017	4.9405	ug/L
V	51	5985	65612	1691	2.6	0.047294	5.0029	ug/L
Cr	52	6084	132020	3065	2.3	0.099903	12.7553	ug/L
Cr	53	1948	16855	400	2.4	0.011823	12.8170	ug/L
Mn	55	361	36320	312	0.9	0.028532	2.5788	ug/L
Fe	54	51442	242824	6848	2.8	0.151712	260.4173	ug/L
Fe	57	3551	75257	952	1.3	0.056889	255.0611	ug/L
Co	59	37	27324	534	2.0	0.021655	2.5219	ug/L
Ni	60	52	12062	286	2.4	0.009533	5.0310	ug/L
Ni	62	215	1991	38	1.9	0.001409	4.9316	ug/L
Cu	65	54	14089	162	1.2	0.019821	5.1828	ug/L
Cu	63	85	27975	437	1.6	0.039385	5.1002	ug/L
Zn	66	245	7616	142	1.9	0.010409	5.1662	ug/L
Zn	68	228	5759	25	0.4	0.007811	5.1879	ug/L
Ge	74	709212	708153	6263	0.9	708153.338011		ug/L
As	75	154	11032	232	2.1	0.015364	5.1852	ug/L
As-1	75	7631	17643	145	0.8	0.014156	5.1158	ug/L
Se	77	105	1590	104	6.6	0.000472	10.1046	ug/L
Se	82	-3	2041	43	2.1	0.000648	9.8528	ug/L
Sr	88	94	134320	2206	1.6	0.042581	5.1896	ug/L
Y	89	67	20758	494	2.4	0.006564	3.0348	ug/L
Mo	98	144	3182	57	1.8	0.000964	0.4954	ug/L
Ag	107	37	11118	184	1.7	0.003515	0.9985	ug/L
Ag	109	38	10684	294	2.8	0.003379	0.9918	ug/L
Cd	111	24	1385	14	1.0	0.000432	0.5098	ug/L
Cd	114	20	3124	46	1.5	0.000985	0.4935	ug/L

>	In	115	3160654	3153977	83592	2.7	3153977.104936		ug/L
	Sn	120	17270	45721	389	0.9	0.009040	2.4424	ug/L
	Sb	121	224	6055	735	12.1	0.001853	1.0083	ug/L
	Cs	133	20	84106	2531	3.0	0.026673	2.4417	ug/L
	Ba	138	86	62227	2041	3.3	0.019715	2.4537	ug/L
	Ce	140	36	16078	434	2.7	0.005091	0.5080	ug/L
>	Tm	169	2730830	2730138	19311	0.7	2730137.923247		ug/L
	Tl	205	25	4713	35	0.7	0.001717	0.2604	ug/L
	Pb	208	143	62117	67	0.1	0.022701	2.5722	ug/L
	Bi	209	261	48435	2007	4.1	0.017649	2.5143	ug/L
	Th	232	199	7056	2411	34.2	0.002515	0.4999	ug/L
	U	238	16	13342	191	1.4	0.004882	0.5145	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL5

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:01:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL5.045

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	5594	71	1.3	0.004371	5.0224	ug/L
Be	9	33	839	33	4.0	0.000635	2.0889	ug/L
B	11	169	46677	1003	2.1	0.036621	102.7769	ug/L
Na	23	6859	5539197	46894	0.8	4.355862	975.8036	ug/L
Mg	24	156	7396768	155141	2.1	5.824317	1917.3168	ug/L
Al	27	891	2634724	66188	2.5	2.074068	488.1667	ug/L
K	39	409328	11204685	94442	0.8	8.495785	983.8396	ug/L
Ca	44	69014	773385	9661	1.2	0.553927	2159.6829	ug/L
Sc	45	1256607	1270252	15069	1.2	1270252.278240		ug/L
Ti	47	283	9446	173	1.8	0.007213	10.0220	ug/L
Ti	48	-5947	97681	1507	1.5	0.081648	9.8409	ug/L
V	51	5985	126517	1654	1.3	0.094855	10.0086	ug/L
Cr	52	6084	263384	3196	1.2	0.202527	25.8513	ug/L
Cr	53	1948	32048	518	1.6	0.023684	25.6306	ug/L
Mn	55	361	361448	6724	1.9	0.284313	25.7132	ug/L
Fe	54	51442	431466	6126	1.4	0.298802	510.8910	ug/L
Fe	57	3551	150477	1804	1.2	0.115650	518.7093	ug/L
Co	59	37	55737	1330	2.4	0.043859	5.1125	ug/L
Ni	60	52	24737	361	1.5	0.019437	10.2594	ug/L
Ni	62	215	3916	96	2.5	0.002913	10.2018	ug/L
Cu	65	54	28209	507	1.8	0.039629	10.3688	ug/L
Cu	63	85	57152	154	0.3	0.080303	10.3991	ug/L
Zn	66	245	74199	984	1.3	0.104080	51.2695	ug/L
Zn	68	228	55190	774	1.4	0.077336	50.9325	ug/L
Ge	74	709212	710908	16481	2.3	710907.838612		ug/L
As	75	154	22300	823	3.7	0.031151	10.4773	ug/L
As-1	75	7631	27971	935	3.3	0.028584	10.2052	ug/L
Se	77	105	3186	25	0.8	0.000972	20.8364	ug/L
Se	82	-3	4290	72	1.7	0.001354	20.5701	ug/L
Sr	88	94	270642	4165	1.5	0.085334	10.4038	ug/L
Y	89	67	79	10	12.7	0.000004	0.0149	ug/L
Mo	98	144	31733	709	2.2	0.009963	5.0854	ug/L
Ag	107	37	22822	384	1.7	0.007187	2.0397	ug/L
Ag	109	38	22268	413	1.9	0.007011	2.0571	ug/L
Cd	111	24	2720	110	4.0	0.000850	1.0029	ug/L
Cd	114	20	6462	200	3.1	0.002032	1.0203	ug/L

>	In	115	3160654	3170468	33151	1.0	3170468.129299		ug/L
	Sn	120	17270	76823	874	1.1	0.018768	5.1811	ug/L
	Sb	121	224	14069	1261	9.0	0.004370	1.9810	ug/L
	Cs	133	20	172918	2165	1.3	0.054533	4.9936	ug/L
	Ba	138	86	625683	6406	1.0	0.197326	24.5710	ug/L
	Ce	140	36	31812	314	1.0	0.010023	1.0001	ug/L
>	Tm	169	2730830	2784823	42763	1.5	2784822.980900		ug/L
	Tl	205	25	9457	133	1.4	0.003387	0.5149	ug/L
	Pb	208	143	126270	529	0.4	0.045299	5.1341	ug/L
	Bi	209	261	500405	9571	1.9	0.179658	25.5744	ug/L
	Th	232	199	15858	4532	28.6	0.005639	1.1158	ug/L
	U	238	16	26884	205	0.8	0.009649	1.0171	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL6

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:05:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL6.046

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	10968	267	2.4	0.008925	10.2513	ug/L
Be	9	33	1542	29	1.9	0.001234	4.0597	ug/L
B	11	169	218327	4313	2.0	0.178187	499.8123	ug/L
Na	23	6859	26651754	440142	1.7	21.764860	4883.4550	ug/L
Mg	24	156	36292164	1318798	3.6	29.636787	9757.0619	ug/L
Al	27	891	12825905	360019	2.8	10.474073	2465.3767	ug/L
K	39	409328	52059082	1277398	2.5	42.191251	4885.1425	ug/L
Ca	44	69014	3016647	48366	1.6	2.408944	9376.1258	ug/L
Sc	45	1256607	1224356	19142	1.6	1224355.714418		ug/L
Ti	47	283	44550	513	1.2	0.036164	50.1905	ug/L
Ti	48	-5947	530000	5736	1.1	0.437642	52.7756	ug/L
V	51	5985	238719	3245	1.4	0.190217	20.0455	ug/L
Cr	52	6084	1194841	21777	1.8	0.971033	123.9224	ug/L
Cr	53	1948	144047	4050	2.8	0.116087	125.4546	ug/L
Mn	55	361	1687088	44916	2.7	1.377494	124.5875	ug/L
Fe	54	51442	1797020	52668	2.9	1.426672	2431.4983	ug/L
Fe	57	3551	685068	14942	2.2	0.556672	2497.4793	ug/L
Co	59	37	265673	5060	1.9	0.216954	25.3087	ug/L
Ni	60	52	117177	1141	1.0	0.095670	50.5033	ug/L
Ni	62	215	17511	233	1.3	0.014132	49.5189	ug/L
Cu	65	54	130538	1994	1.5	0.190593	49.8932	ug/L
Cu	63	85	263002	2002	0.8	0.384035	49.7316	ug/L
Zn	66	245	351496	3322	0.9	0.513067	252.5660	ug/L
Zn	68	228	258907	3174	1.2	0.377848	248.6564	ug/L
Ge	74	709212	684620	2218	0.3	684620.247004		ug/L
As	75	154	99600	1004	1.0	0.145263	48.7291	ug/L
As-1	75	7631	103564	1021	1.0	0.140510	49.6863	ug/L
Se	77	105	5913	47	0.8	0.001889	40.5124	ug/L
Se	82	-3	8279	110	1.3	0.002692	40.8770	ug/L
Sr	88	94	1259626	11969	1.0	0.409464	49.9351	ug/L
Y	89	67	118	25	20.9	0.000017	0.0210	ug/L
Mo	98	144	153373	2907	1.9	0.049809	25.4094	ug/L
Ag	107	37	109125	780	0.7	0.035464	10.0583	ug/L
Ag	109	38	106104	1057	1.0	0.034482	10.1132	ug/L
Cd	111	24	13193	15	0.1	0.004281	5.0472	ug/L
Cd	114	20	31024	666	2.1	0.010078	5.0682	ug/L

> In	115	3160654	3076206	33524	1.1	3076205.581684		ug/L
Sn	120	17270	130770	1293	1.0	0.037047	10.3274	ug/L
Sb	121	224	29219	2953	10.1	0.009423	3.9343	ug/L
Cs	133	20	332468	464	0.1	0.108081	9.8984	ug/L
Ba	138	86	3037235	31345	1.0	0.987439	122.9615	ug/L
Ce	140	36	151593	654	0.4	0.049273	4.9154	ug/L
> Tm	169	2730830	2712484	32468	1.2	2712483.779923		ug/L
Tl	205	25	44621	1292	2.9	0.016446	2.5047	ug/L
Pb	208	143	242808	2845	1.2	0.089479	10.1427	ug/L
Bi	209	261	2471433	35752	1.4	0.911219	129.7040	ug/L
Th	232	199	37552	6422	17.1	0.013787	2.7224	ug/L
U	238	16	52384	1011	1.9	0.019306	2.0352	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL7

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:08:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL7.047

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	26077	1755	6.7	0.021846	25.0881	ug/L
Be	9	33	3699	141	3.8	0.003078	10.1251	ug/L
B	11	169	423179	10180	2.4	0.355093	995.9602	ug/L
Na	23	6859	52116804	1209023	2.3	43.742876	9816.6758	ug/L
Mg	24	156	70718434	500012	0.7	59.382555	19550.2179	ug/L
Al	27	891	24822265	234123	0.9	20.841852	4905.7656	ug/L
K	39	409328	101666344	1465326	1.4	85.026534	9844.6647	ug/L
Ca	44	69014	5804040	47312	0.8	4.818044	18748.0733	ug/L
Sc	45	1256607	1191217	21260	1.8	1191217.016301		ug/L
Ti	47	283	85077	480	0.6	0.071207	98.8104	ug/L
Ti	48	-5947	1004815	2473	0.2	0.848448	102.3210	ug/L
V	51	5985	566816	6922	1.2	0.471122	49.6110	ug/L
Cr	52	6084	2235889	8730	0.4	1.872599	238.9735	ug/L
Cr	53	1948	279470	3146	1.1	0.233135	251.9043	ug/L
Mn	55	361	3172625	38420	1.2	2.663892	240.9376	ug/L
Fe	54	51442	3354266	33739	1.0	2.775798	4728.8736	ug/L
Fe	57	3551	1293137	1871	0.1	1.082960	4858.8237	ug/L
Co	59	37	502792	2847	0.6	0.422170	49.2525	ug/L
Ni	60	52	218257	963	0.4	0.183209	96.7158	ug/L
Ni	62	215	34062	423	1.2	0.028425	99.6073	ug/L
Cu	65	54	249371	4755	1.9	0.376425	98.5462	ug/L
Cu	63	85	504212	10846	2.2	0.761121	98.5632	ug/L
Zn	66	245	660394	10972	1.7	0.996747	490.6256	ug/L
Zn	68	228	498235	11961	2.4	0.751949	494.7992	ug/L
Ge	74	709212	662332	11834	1.8	662331.963341		ug/L
As	75	154	195933	4373	2.2	0.295593	99.1212	ug/L
As-1	75	7631	196003	3790	1.9	0.285166	100.7124	ug/L
Se	77	105	14225	283	2.0	0.004681	100.4092	ug/L
Se	82	-3	19455	340	1.7	0.006448	97.8883	ug/L
Sr	88	94	2373573	21351	0.9	0.786610	95.9321	ug/L
Y	89	67	180	11	6.1	0.000038	0.0309	ug/L
Mo	98	144	296335	4345	1.5	0.098166	50.0741	ug/L
Ag	107	37	213068	2765	1.3	0.070595	20.0204	ug/L
Ag	109	38	206768	1409	0.7	0.068513	20.0934	ug/L
Cd	111	24	25690	99	0.4	0.008506	10.0272	ug/L
Cd	114	20	60761	232	0.4	0.020130	10.1248	ug/L

> In	115	3160654	3017595	22113	0.7	3017594.980050		ug/L
Sn	120	17270	296704	4576	1.5	0.092869	26.0428	ug/L
Sb	121	224	75490	5623	7.4	0.024939	9.9319	ug/L
Cs	133	20	827959	23512	2.8	0.274411	25.1335	ug/L
Ba	138	86	6144262	184046	3.0	2.036366	253.5813	ug/L
Ce	140	36	300699	4194	1.4	0.099643	9.9400	ug/L
> Tm	169	2730830	2721655	54473	2.0	2721655.005064		ug/L
Tl	205	25	87353	1242	1.4	0.032095	4.8891	ug/L
Pb	208	143	580613	5835	1.0	0.213309	24.1810	ug/L
Bi	209	261	4811946	7314	0.2	1.768374	251.7105	ug/L
Th	232	199	105761	9744	9.2	0.038844	7.6629	ug/L
U	238	16	127286	1567	1.2	0.046780	4.9316	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL8

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:12:52

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 9

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL8.048

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	48024	3003	6.3	0.042012	48.2453	ug/L
Be	9	33	6919	106	1.5	0.006037	19.8558	ug/L
B	11	169	776524	30504	3.9	0.680080	1907.4179	ug/L
Na	23	6859	98374785	1365930	1.4	86.207589	19348.3731	ug/L
Mg	24	156	133453604	815611	0.6	116.982491	38513.7617	ug/L
Al	27	891	45968034	586785	1.3	40.286027	9482.5750	ug/L
K	39	409328	187952840	3081338	1.6	164.373169	19031.5166	ug/L
Ca	44	69014	10885564	378948	3.5	9.481228	36888.9235	ug/L
Sc	45	1256607	1141861	44633	3.9	1141861.172016		ug/L
Ti	47	283	164905	2215	1.3	0.144321	200.2528	ug/L
Ti	48	-5947	1827012	12118	0.7	1.606461	193.7414	ug/L
V	51	5985	1089581	25364	2.3	0.950014	100.0148	ug/L
Cr	52	6084	4273842	95913	2.2	3.739958	477.2719	ug/L
Cr	53	1948	521537	10955	2.1	0.455455	492.0798	ug/L
Mn	55	361	5937014	192011	3.2	5.200864	470.3977	ug/L
Fe	54	51442	6265101	142965	2.3	5.449258	9281.4070	ug/L
Fe	57	3551	2349799	101237	4.3	2.055410	9221.9986	ug/L
Co	59	37	934331	26844	2.9	0.818533	95.4988	ug/L
Ni	60	52	407611	9351	2.3	0.357255	188.5954	ug/L
Ni	62	215	61877	1592	2.6	0.054060	189.4392	ug/L
Cu	65	54	451482	8655	1.9	0.723035	189.2933	ug/L
Cu	63	85	903176	25860	2.9	1.445952	187.2472	ug/L
Zn	66	245	1203621	39175	3.3	1.926597	948.2826	ug/L
Zn	68	228	906750	24917	2.7	1.451422	955.0228	ug/L
Ge	74	709212	624862	24265	3.9	624861.654127		ug/L
As	75	154	364956	11788	3.2	0.583985	195.7938	ug/L
As-1	75	7631	355713	10862	3.1	0.558657	197.1841	ug/L
Se	77	105	26281	1081	4.1	0.008759	187.9061	ug/L
Se	82	-3	37142	1739	4.7	0.012427	188.6276	ug/L
Sr	88	94	4522178	174068	3.8	1.512947	184.5167	ug/L
Y	89	67	332	6	1.9	0.000090	0.0546	ug/L
Mo	98	144	577375	14262	2.5	0.193188	98.5405	ug/L
Ag	107	37	401013	8521	2.1	0.134195	38.0557	ug/L
Ag	109	38	392573	7369	1.9	0.131396	38.5349	ug/L
Cd	111	24	49688	794	1.6	0.016627	19.5990	ug/L
Cd	114	20	117437	2020	1.7	0.039304	19.7710	ug/L

> In	115	3160654	2988579	86020	2.9	2988578.815571		ug/L
Sn	120	17270	572213	7716	1.3	0.186145	52.3028	ug/L
Sb	121	224	156422	12294	7.9	0.052249	20.4883	ug/L
Cs	133	20	1684295	16835	1.0	0.563984	51.6573	ug/L
Ba	138	86	12529516	265557	2.1	4.196071	522.5230	ug/L
Ce	140	36	610703	8269	1.4	0.204483	20.3983	ug/L
> Tm	169	2730830	2804590	37834	1.3	2804590.412613		ug/L
Tl	205	25	172839	2146	1.2	0.061621	9.3880	ug/L
Pb	208	143	1135866	4781	0.4	0.404984	45.9108	ug/L
Bi	209	261	9409917	22820	0.2	3.355562	477.6292	ug/L
Th	232	199	229116	10066	4.4	0.081645	16.1021	ug/L
U	238	16	249970	1721	0.7	0.089136	9.3969	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:16:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB2.049

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	98	4	4.1	0.000048	0.0575	ug/L
Be	9	33	25	2	6.2	-0.000006	-0.0172	ug/L
B	11	169	1030	266	25.8	0.000709	2.0590	ug/L
Na	23	6859	18091	5387	29.8	0.009356	0.1798	ug/L
Mg	24	156	836	592	70.8	0.000560	-0.0300	ug/L
Al	27	891	1150	317	27.6	0.000232	0.0228	ug/L
K	39	409328	457907	19473	4.3	0.049101	5.8720	ug/L
Ca	44	69014	64359	161	0.3	-0.002239	-3.9271	ug/L
Sc	45	1256607	1221706	9435	0.8	1221705.562685		ug/L
Ti	47	283	302	31	10.3	0.000022	0.0442	ug/L
Ti	48	-5947	-5007	192	3.8	0.000634	0.0701	ug/L
V	51	5985	5598	130	2.3	-0.000180	0.0062	ug/L
Cr	52	6084	6241	96	1.5	0.000267	0.0405	ug/L
Cr	53	1948	1795	44	2.4	-0.000081	-0.0427	ug/L
Mn	55	361	456	69	15.1	0.000086	0.0058	ug/L
Fe	54	51442	51507	626	1.2	0.001222	4.1535	ug/L
Fe	57	3551	3669	66	1.8	0.000177	0.6092	ug/L
Co	59	37	42	5	12.6	0.000005	-0.0042	ug/L
Ni	60	52	55	9	17.2	0.000003	0.0006	ug/L
Ni	62	215	228	16	7.1	0.000015	0.0486	ug/L
Cu	65	54	66	11	17.0	0.000021	-0.0013	ug/L
Cu	63	85	130	19	14.6	0.000070	0.0091	ug/L
Zn	66	245	245	7	2.9	0.000014	0.0501	ug/L
Zn	68	228	251	17	7.0	0.000046	0.0790	ug/L
Ge	74	709212	682805	8029	1.2	682805.246138		ug/L
As	75	154	370	42	11.2	0.000325	0.1442	ug/L
As-1	75	7631	7437	101	1.4	0.000132	0.1691	ug/L
Se	77	105	166	12	7.3	0.000019	0.3860	ug/L
Se	82	-3	76	13	16.8	0.000025	0.3913	ug/L
Sr	88	94	126	19	15.2	0.000009	-0.0024	ug/L
Y	89	67	71	19	26.3	0.000001	0.0135	ug/L
Mo	98	144	3239	919	28.4	0.000967	0.4967	ug/L
Ag	107	37	341	39	11.3	0.000095	0.0286	ug/L
Ag	109	38	339	13	3.9	0.000094	0.0284	ug/L
Cd	111	24	30	1	1.9	0.000002	0.0026	ug/L
Cd	114	20	14	10	69.3	-0.000002	-0.0030	ug/L

> In	115	3160654	3208851	49473	1.5	3208851.490904		ug/L
Sn	120	17270	21854	2314	10.6	0.001353	0.2783	ug/L
Sb	121	224	6800	1871	27.5	0.002054	1.0860	ug/L
Cs	133	20	252	65	25.8	0.000072	0.0052	ug/L
Ba	138	86	148	46	31.2	0.000019	0.0010	ug/L
Ce	140	36	45	9	20.8	0.000003	0.0005	ug/L
> Tm	169	2730830	2826032	28297	1.0	2826032.104493		ug/L
Tl	205	25	552	204	37.0	0.000186	0.0270	ug/L
Pb	208	143	145	2	1.4	-0.000001	-0.0015	ug/L
Bi	209	261	16106	6418	39.9	0.005592	0.7981	ug/L
Th	232	199	4460	1659	37.2	0.001503	0.3003	ug/L
U	238	16	59	14	23.1	0.000015	0.0014	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	97.223
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	96.277
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.525
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	103.486
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICV1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:23:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICV1.050

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	13156	512	3.9	0.010599	12.1736	ug/L
Be	9	33	423	14	3.2	0.000316	1.0416	ug/L
B	11	169	22200	470	2.1	0.017821	50.0491	ug/L
Na	23	6859	2764611	46986	1.7	2.229647	498.5501	ug/L
Mg	24	156	829111	4440	0.5	0.670442	220.5140	ug/L
Al	27	891	288603	2536	0.9	0.232724	54.7472	ug/L
K	39	409328	1541175	41637	2.7	0.919979	106.7033	ug/L
Ca	44	69014	409968	5086	1.2	0.276563	1080.6754	ug/L
Sc	45	1256607	1238544	64436	5.2	1238544.379377		ug/L
Ti	47	283	4654	104	2.2	0.003540	4.9253	ug/L
Ti	48	-5947	44203	1050	2.4	0.040472	4.8748	ug/L
V	51	5985	66086	1230	1.9	0.048667	5.1473	ug/L
Cr	52	6084	135041	578	0.4	0.104401	13.3293	ug/L
Cr	53	1948	16948	104	0.6	0.012158	13.1785	ug/L
Mn	55	361	36788	352	1.0	0.029463	2.6629	ug/L
Fe	54	51442	236574	5161	2.2	0.150305	258.0212	ug/L
Fe	57	3551	74237	683	0.9	0.057209	256.4977	ug/L
Co	59	37	28337	647	2.3	0.022899	2.6671	ug/L
Ni	60	52	12377	285	2.3	0.009963	5.2582	ug/L
Ni	62	215	2061	73	3.5	0.001495	5.2328	ug/L
Cu	65	54	13771	265	1.9	0.019670	5.1431	ug/L
Cu	63	85	27914	715	2.6	0.039894	5.1662	ug/L
Zn	66	245	7666	27	0.4	0.010651	5.2851	ug/L
Zn	68	228	5706	144	2.5	0.007860	5.2203	ug/L
Ge	74	709212	697849	26887	3.9	697849.023604		ug/L
As	75	154	11073	178	1.6	0.015669	5.2875	ug/L
As-1	75	7631	17603	363	2.1	0.014497	5.2360	ug/L
Se	77	105	1620	113	7.0	0.000482	10.3323	ug/L
Se	82	-3	2115	44	2.1	0.000673	10.2347	ug/L
Sr	88	94	133731	1915	1.4	0.042485	5.1779	ug/L
Y	89	67	32172	253	0.8	0.010204	4.7102	ug/L
Mo	98	144	4167	449	10.8	0.001283	0.6580	ug/L
Ag	107	37	12716	288	2.3	0.004029	1.1442	ug/L
Ag	109	38	12408	320	2.6	0.003930	1.1536	ug/L
Cd	111	24	1370	9	0.6	0.000428	0.5051	ug/L
Cd	114	20	3295	47	1.4	0.001042	0.5221	ug/L

>	In	115	3160654	3149175	129485	4.1	3149174.570858		ug/L
	Sn	120	17270	49445	780	1.6	0.010258	2.7854	ug/L
	Sb	121	224	12089	1172	9.7	0.003781	1.7535	ug/L
	Cs	133	20	89606	1509	1.7	0.028493	2.6084	ug/L
	Ba	138	86	66101	1385	2.1	0.020996	2.6132	ug/L
	Ce	140	36	45	4	9.7	0.000003	0.0005	ug/L
>	Tm	169	2730830	2786996	88268	3.2	2786995.798540		ug/L
	Tl	205	25	5100	122	2.4	0.001823	0.2765	ug/L
	Pb	208	143	65140	205	0.3	0.023335	2.6441	ug/L
	Bi	209	261	54269	183	0.3	0.019391	2.7623	ug/L
	Th	232	199	12193	939	7.7	0.004298	0.8514	ug/L
	U	238	16	13810	76	0.6	0.004952	0.5219	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	98.563
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	98.398
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	99.637
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169	102.057
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB3

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:27:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB3.051

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	69	13	18.2	0.000023	0.0297	ug/L
Be	9	33	29	6	22.4	-0.000003	-0.0065	ug/L
B	11	169	376	53	14.1	0.000174	0.5567	ug/L
Na	23	6859	8821	186	2.1	0.001766	-1.5238	ug/L
Mg	24	156	197	14	7.1	0.000037	-0.2022	ug/L
Al	27	891	894	73	8.2	0.000023	-0.0263	ug/L
K	39	409328	417179	6414	1.5	0.015898	2.0278	ug/L
Ca	44	69014	62400	381	0.6	-0.003824	-10.0966	ug/L
Sc	45	1256607	1221395	15248	1.2	1221395.464965		ug/L
Ti	47	283	264	12	4.5	-0.000009	0.0017	ug/L
Ti	48	-5947	-5245	60	1.1	0.000437	0.0464	ug/L
V	51	5985	5387	220	4.1	-0.000350	-0.0117	ug/L
Cr	52	6084	6241	246	3.9	0.000270	0.0409	ug/L
Cr	53	1948	1739	59	3.4	-0.000126	-0.0920	ug/L
Mn	55	361	374	45	12.2	0.000019	-0.0002	ug/L
Fe	54	51442	49142	1817	3.7	-0.000689	0.8994	ug/L
Fe	57	3551	3495	89	2.5	0.000036	-0.0253	ug/L
Co	59	37	47	13	26.8	0.000009	-0.0037	ug/L
Ni	60	52	52	2	4.3	0.000002	-0.0004	ug/L
Ni	62	215	215	16	7.4	0.000005	0.0138	ug/L
Cu	65	54	58	8	13.7	0.000009	-0.0044	ug/L
Cu	63	85	104	24	22.9	0.000030	0.0040	ug/L
Zn	66	245	246	18	7.2	0.000014	0.0497	ug/L
Zn	68	228	233	17	7.1	0.000017	0.0597	ug/L
Ge	74	709212	686835	5442	0.8	686834.963925		ug/L
As	75	154	143	68	47.4	-0.000008	0.0324	ug/L
As-1	75	7631	7503	88	1.2	0.000165	0.1806	ug/L
Se	77	105	107	17	16.2	0.000001	0.0111	ug/L
Se	82	-3	12	8	70.8	0.000005	0.0872	ug/L
Sr	88	94	110	12	11.3	0.000005	-0.0029	ug/L
Y	89	67	60	19	32.3	-0.000002	0.0123	ug/L
Mo	98	144	450	198	44.1	0.000098	0.0540	ug/L
Ag	107	37	167	12	7.1	0.000042	0.0136	ug/L
Ag	109	38	180	8	4.5	0.000046	0.0144	ug/L
Cd	111	24	17	3	17.6	-0.000002	-0.0019	ug/L
Cd	114	20	18	25	136.1	-0.000000	-0.0022	ug/L

> In	115	3160654	3113285	29895	1.0	3113284.753847		ug/L
Sn	120	17270	18808	1640	8.7	0.000574	0.0591	ug/L
Sb	121	224	1088	353	32.4	0.000278	0.3994	ug/L
Cs	133	20	54	10	18.8	0.000011	-0.0004	ug/L
Ba	138	86	96	16	16.2	0.000004	-0.0009	ug/L
Ce	140	36	32	4	11.7	-0.000001	0.0002	ug/L
> Tm	169	2730830	2790586	55764	2.0	2790586.156455		ug/L
Tl	205	25	38	13	34.5	0.000004	-0.0006	ug/L
Pb	208	143	158	9	5.5	0.000004	-0.0009	ug/L
Bi	209	261	1515	692	45.7	0.000444	0.0654	ug/L
Th	232	199	1589	636	40.0	0.000494	0.1015	ug/L
U	238	16	18	2	9.6	0.000001	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	97.198
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	96.845
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.501
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	102.188
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICV1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:34:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICV1.052

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	13721	892	6.5	0.010778	12.3791	ug/L
Be	9	33	409	9	2.2	0.000296	0.9768	ug/L
B	11	169	22148	1016	4.6	0.017323	48.6528	ug/L
Na	23	6859	2799170	51616	1.8	2.201666	492.2694	ug/L
Mg	24	156	840530	10181	1.2	0.662688	217.9611	ug/L
Al	27	891	295032	4670	1.6	0.231944	54.5637	ug/L
K	39	409328	1555397	24063	1.5	0.900874	104.4914	ug/L
Ca	44	69014	419152	7366	1.8	0.275576	1076.8342	ug/L
Sc	45	1256607	1268371	29736	2.3	1268370.998811		ug/L
Ti	47	283	4767	28	0.6	0.003535	4.9178	ug/L
Ti	48	-5947	44690	355	0.8	0.039984	4.8159	ug/L
V	51	5985	67639	527	0.8	0.048578	5.1380	ug/L
Cr	52	6084	136721	665	0.5	0.102994	13.1497	ug/L
Cr	53	1948	17153	339	2.0	0.011975	12.9807	ug/L
Mn	55	361	37237	961	2.6	0.029071	2.6275	ug/L
Fe	54	51442	237718	6306	2.7	0.146475	251.4984	ug/L
Fe	57	3551	74337	1723	2.3	0.055786	250.1146	ug/L
Co	59	37	28444	690	2.4	0.022397	2.6085	ug/L
Ni	60	52	12245	413	3.4	0.009612	5.0728	ug/L
Ni	62	215	2052	51	2.5	0.001447	5.0647	ug/L
Cu	65	54	13923	465	3.3	0.019218	5.0249	ug/L
Cu	63	85	28307	766	2.7	0.039097	5.0630	ug/L
Zn	66	245	7838	193	2.5	0.010514	5.2176	ug/L
Zn	68	228	5884	235	4.0	0.007827	5.1984	ug/L
Ge	74	709212	721977	24935	3.5	721977.236227		ug/L
As	75	154	11246	324	2.9	0.015365	5.1858	ug/L
As-1	75	7631	17712	513	2.9	0.013782	4.9839	ug/L
Se	77	105	1625	44	2.7	0.000471	10.0982	ug/L
Se	82	-3	2135	19	0.9	0.000664	10.0915	ug/L
Sr	88	94	137731	2741	2.0	0.042733	5.2082	ug/L
Y	89	67	32302	440	1.4	0.010008	4.6198	ug/L
Mo	98	144	3602	169	4.7	0.001073	0.5509	ug/L
Ag	107	37	12638	325	2.6	0.003912	1.1111	ug/L
Ag	109	38	12337	466	3.8	0.003819	1.1208	ug/L
Cd	111	24	1404	46	3.3	0.000428	0.5054	ug/L
Cd	114	20	3268	100	3.1	0.001008	0.5053	ug/L

>	In	115	3160654	3220909	9170	0.3	3220909.091408		ug/L
	Sn	120	17270	49287	1153	2.3	0.009838	2.6673	ug/L
	Sb	121	224	10452	391	3.7	0.003174	1.5188	ug/L
	Cs	133	20	90849	912	1.0	0.028200	2.5816	ug/L
	Ba	138	86	67890	2021	3.0	0.021050	2.6200	ug/L
	Ce	140	36	49	8	15.3	0.000004	0.0006	ug/L
>	Tm	169	2730830	2821556	70997	2.5	2821556.248979		ug/L
	Tl	205	25	5022	172	3.4	0.001771	0.2686	ug/L
	Pb	208	143	66167	130	0.2	0.023407	2.6523	ug/L
	Bi	209	261	50849	1186	2.3	0.017940	2.5557	ug/L
	Th	232	199	9795	1786	18.2	0.003410	0.6763	ug/L
	U	238	16	13690	440	3.2	0.004850	0.5112	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.936
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.800
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.906
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	103.322
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 5% HNO3 rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:37:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\5% HNO3 rinse.053

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654					ug/L
	Sn	120	17270					ug/L
	Sb	121	224	414	24	5.8		ug/L
	Cs	133	20					ug/L
	Ba	138	86					ug/L
	Ce	140	36					ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal 4 check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:38:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal 4 check.054

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	1763			0.001333	1.5335	ug/L
Be	9	33	204			0.000132	0.4361	ug/L
B	11	169	4820			0.003600	10.1647	ug/L
Na	23	6859	987497			0.759536	168.5665	ug/L
Mg	24	156	129418			0.100133	32.7522	ug/L
Al	27	891	58489			0.044601	10.4665	ug/L
K	39	409328	872425			0.350110	40.7233	ug/L
Ca	44	69014	167163			0.074577	294.9036	ug/L
Sc	45	1256607	1290855			1290854.771825		ug/L
Ti	47	283	2105			0.001406	1.9645	ug/L
Ti	48	-5947	15106			0.016435	1.9758	ug/L
V	51	5985	23411			0.013373	1.4327	ug/L
Cr	52	6084	22219			0.012371	1.5851	ug/L
Cr	53	1948	3496			0.001159	1.2962	ug/L
Mn	55	361	7787			0.005745	0.5177	ug/L
Fe	54	51442	89301			0.028243	50.1656	ug/L
Fe	57	3551	18528			0.011527	51.5316	ug/L
Co	59	37	11262			0.008695	1.0098	ug/L
Ni	60	52	5013			0.003842	2.0272	ug/L
Ni	62	215	949			0.000564	1.9720	ug/L
Cu	65	54	2701			0.003672	0.9547	ug/L
Cu	63	85	5685			0.007766	1.0057	ug/L
Zn	66	245	3067			0.003911	1.9677	ug/L
Zn	68	228	2344			0.002930	1.9767	ug/L
Ge	74	709212	720812			720812.428044		ug/L
As	75	154	4449			0.005955	2.0314	ug/L
As-1	75	7631	11782			0.005587	2.0930	ug/L
Se	77	105	365			0.000076	1.6201	ug/L
Se	82	-3	416			0.000126	1.9222	ug/L
Sr	88	94	14077			0.004189	0.5073	ug/L
Y	89	67	78			0.000002	0.0142	ug/L
Mo	98	144	1394			0.000372	0.1935	ug/L
Ag	107	37	2305			0.000679	0.1943	ug/L
Ag	109	38	2219			0.000653	0.1925	ug/L
Cd	111	24	288			0.000079	0.0934	ug/L
Cd	114	20	675			0.000196	0.0966	ug/L

> In	115	3160654	3336609	3336608.740327		ug/L
Sn	120	17270	35415	0.005150	1.3474	ug/L
Sb	121	224	1656	0.000425	0.4564	ug/L
Cs	133	20	17529	0.005247	0.4792	ug/L
Ba	138	86	13114	0.003903	0.4847	ug/L
Ce	140	36	3266	0.000967	0.0967	ug/L
> Tm	169	2730830	2827111	2827111.072157		ug/L
Tl	205	25	1863	0.000650	0.0978	ug/L
Pb	208	143	6357	0.002196	0.2476	ug/L
Bi	209	261	10529	0.003629	0.5187	ug/L
Th	232	199	4459	0.001504	0.3006	ug/L
U	238	16	2703	0.000950	0.1001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.725
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.636
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.567
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	103.526
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal 4 check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:41:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal 4 check.055

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	2716	80	2.9	0.002190	2.5173	ug/L
Be	9	33	415	13	3.1	0.000314	1.0348	ug/L
B	11	169	21964	411	1.9	0.017839	50.1000	ug/L
Na	23	6859	2754532	72637	2.6	2.247899	502.6469	ug/L
Mg	24	156	803251	22233	2.8	0.656966	216.0776	ug/L
Al	27	891	278225	5837	2.1	0.226915	53.3800	ug/L
K	39	409328	1489891	51300	3.4	0.892910	103.5693	ug/L
Ca	44	69014	396164	12345	3.1	0.269148	1051.8301	ug/L
Sc	45	1256607	1222380	30326	2.5	1222380.464319		ug/L
Ti	47	283	4585	65	1.4	0.003528	4.9081	ug/L
Ti	48	-5947	45120	598	1.3	0.041665	5.0187	ug/L
V	51	5985	63321	1248	2.0	0.047043	4.9765	ug/L
Cr	52	6084	129513	2694	2.1	0.101117	12.9102	ug/L
Cr	53	1948	16055	69	0.4	0.011590	12.5654	ug/L
Mn	55	361	35414	725	2.0	0.028692	2.5932	ug/L
Fe	54	51442	231061	5077	2.2	0.148114	254.2905	ug/L
Fe	57	3551	73208	1448	2.0	0.057075	255.8961	ug/L
Co	59	37	27154	638	2.4	0.022188	2.5841	ug/L
Ni	60	52	11936	237	2.0	0.009724	5.1323	ug/L
Ni	62	215	1991	34	1.7	0.001458	5.1036	ug/L
Cu	65	54	13558	307	2.3	0.019590	5.1223	ug/L
Cu	63	85	27415	334	1.2	0.039648	5.1344	ug/L
Zn	66	245	7231	30	0.4	0.010147	5.0370	ug/L
Zn	68	228	5633	151	2.7	0.007848	5.2126	ug/L
Ge	74	709212	689389	10978	1.6	689389.229606		ug/L
As	75	154	10869	371	3.4	0.015547	5.2468	ug/L
As-1	75	7631	17130	427	2.5	0.014087	5.0916	ug/L
Se	77	105	1575	21	1.3	0.000469	10.0433	ug/L
Se	82	-3	2078	49	2.3	0.000663	10.0808	ug/L
Sr	88	94	131279	3568	2.7	0.041809	5.0955	ug/L
Y	89	67	20391	240	1.2	0.006478	2.9948	ug/L
Mo	98	144	3204	82	2.6	0.000975	0.5013	ug/L
Ag	107	37	10971	170	1.6	0.003485	0.9900	ug/L
Ag	109	38	10643	169	1.6	0.003380	0.9923	ug/L
Cd	111	24	1352	24	1.8	0.000423	0.4997	ug/L
Cd	114	20	3148	22	0.7	0.000997	0.4997	ug/L

>	In	115	3160654	3137630	32213	1.0	3137629.623436		ug/L
	Sn	120	17270	46731	823	1.8	0.009429	2.5522	ug/L
	Sb	121	224	6610	648	9.8	0.002035	1.0784	ug/L
	Cs	133	20	86757	1079	1.2	0.027644	2.5307	ug/L
	Ba	138	86	63827	559	0.9	0.020315	2.5285	ug/L
	Ce	140	36	16448	470	2.9	0.005231	0.5220	ug/L
>	Tm	169	2730830	2773163	12590	0.5	2773162.688977		ug/L
	Tl	205	25	4722	61	1.3	0.001693	0.2568	ug/L
	Pb	208	143	62081	404	0.7	0.022334	2.5306	ug/L
	Bi	209	261	48190	1097	2.3	0.017281	2.4619	ug/L
	Th	232	199	8383	2039	24.3	0.002948	0.5853	ug/L
	U	238	16	13177	123	0.9	0.004746	0.5002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	97.276
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	97.205
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.272
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.550
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICV1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:48:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICV1.056

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654					ug/L
	Sn	120	17270					ug/L
	Sb	121	224	154		8	5.2	ug/L
	Cs	133	20					ug/L
	Ba	138	86					ug/L
	Ce	140	36					ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal 4 check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:50:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal 4 check.057

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654					ug/L
	Sn	120	17270					ug/L
	Sb	121	224	627	63	10.1		ug/L
	Cs	133	20					ug/L
	Ba	138	86					ug/L
	Ce	140	36					ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal 4 check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:52:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal 4 check.058

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654				ug/L
	Sn	120	17270				ug/L
	Sb	121	224	257	27	10.3	ug/L
	Cs	133	20				ug/L
	Ba	138	86				ug/L
	Ce	140	36				ug/L
>	Tm	169	2730830				ug/L
	Tl	205	25				ug/L
	Pb	208	143				ug/L
	Bi	209	261				ug/L
	Th	232	199				ug/L
	U	238	16				ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICV1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:55:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICV1.059

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654				ug/L
	Sn	120	17270				ug/L
	Sb	121	224	1527	182	11.9	ug/L
	Cs	133	20				ug/L
	Ba	138	86				ug/L
	Ce	140	36				ug/L
>	Tm	169	2730830				ug/L
	Tl	205	25				ug/L
	Pb	208	143				ug/L
	Bi	209	261				ug/L
	Th	232	199				ug/L
	U	238	16				ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal2 check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:08:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal2 check.060

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156						ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654					ug/L
	Sn	120	17270					ug/L
	Sb	121	224	81		6	8.0	ug/L
	Cs	133	20					ug/L
	Ba	138	86					ug/L
	Ce	140	36					ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: cal7check

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:11:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\cal7check.061

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	166	20	12.0			ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654					ug/L
	Sn	120	17270					ug/L
	Sb	121	224	118	21	18.0		ug/L
	Cs	133	20					ug/L
	Ba	138	86					ug/L
	Ce	140	36					ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 5% HNO3 rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:14:02

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\5% HNO3 rinse.062

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1531064	1251166	81.7			ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654				ug/L
	Sn	120	17270				ug/L
	Sb	121	224	8744	2424	27.7	ug/L
	Cs	133	20				ug/L
	Ba	138	86				ug/L
	Ce	140	36				ug/L
>	Tm	169	2730830				ug/L
	Tl	205	25				ug/L
	Pb	208	143				ug/L
	Bi	209	261				ug/L
	Th	232	199				ug/L
	U	238	16				ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 5% HNO3 rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:15:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\5% HNO3 rinse.063

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	278	40	14.5			ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014						ug/L
Sc	45	1256607						ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985						ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361						ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54						ug/L
Cu	63	85						ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212						ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105						ug/L
Se	82	-3						ug/L
Sr	88	94						ug/L
Y	89	67						ug/L
Mo	98	144						ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654				ug/L
	Sn	120	17270				ug/L
	Sb	121	224	1201	155	12.9	ug/L
	Cs	133	20				ug/L
	Ba	138	86				ug/L
	Ce	140	36				ug/L
>	Tm	169	2730830				ug/L
	Tl	205	25				ug/L
	Pb	208	143				ug/L
	Bi	209	261				ug/L
	Th	232	199				ug/L
	U	238	16				ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: scv

Sample Description: 5x

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:26:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 105

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\scv.064

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	4154	110	2.6	0.003114	17.8956	ug/L
Be	9	33	1114	15	1.4	0.000819	13.4687	ug/L
B	11	169	14631	382	2.6	0.010952	153.9264	ug/L
Na	23	6859	23220066	214894	0.9	17.595063	19737.4795	ug/L
Mg	24	156	6227455	23730	0.4	4.720382	7769.3503	ug/L
Al	27	891	171249	2947	1.7	0.129118	151.8009	ug/L
K	39	409328	4768232	37480	0.8	3.288579	1904.7140	ug/L
Ca	44	69014	2010796	18624	0.9	1.469072	28599.0331	ug/L
Sc	45	1256607	1319722	30981	2.3	1319722.078622		ug/L
Ti	47	283	328	21	6.5	0.000024	0.2332	ug/L
Ti	48	-5947	47452	3306	7.0	0.040737	24.5339	ug/L
V	51	5985	98332	679	0.7	0.069779	36.8470	ug/L
Cr	52	6084	50029	750	1.5	0.033088	21.1444	ug/L
Cr	53	1948	6700	83	1.2	0.003528	19.2800	ug/L
Mn	55	361	115321	2052	1.8	0.087111	39.3850	ug/L
Fe	54	51442	73976	1817	2.5	0.015117	139.0674	ug/L
Fe	57	3551	9279	130	1.4	0.004209	93.4856	ug/L
Co	59	37	61648	418	0.7	0.046704	27.2227	ug/L
Ni	60	52	30174	62	0.2	0.022830	60.2549	ug/L
Ni	62	215	4798	97	2.0	0.003467	60.7154	ug/L
Cu	65	54	12695	119	0.9	0.017202	22.4859	ug/L
Cu	63	85	25537	123	0.5	0.034633	22.4245	ug/L
Zn	66	245	23492	376	1.6	0.031622	78.0349	ug/L
Zn	68	228	22725	345	1.5	0.030604	100.9228	ug/L
Ge	74	709212	734850	7748	1.1	734849.637920		ug/L
As	75	154	24699	156	0.6	0.033396	56.1492	ug/L
As-1	75	7631	31899	162	0.5	0.032652	58.2010	ug/L
Se	77	105	469	6	1.2	0.000109	11.6165	ug/L
Se	82	-3	514	7	1.4	0.000157	11.9915	ug/L
Sr	88	94	1737579	25537	1.5	0.527038	321.3723	ug/L
Y	89	67	150	19	12.8	0.000024	0.1215	ug/L
Mo	98	144	160264	1305	0.8	0.048575	123.8998	ug/L
Ag	107	37	2226	46	2.0	0.000663	0.9493	ug/L
Ag	109	38	2189	94	4.3	0.000652	0.9609	ug/L
Cd	111	24	3786	60	1.6	0.001141	6.7281	ug/L
Cd	114	20	8719	88	1.0	0.002639	6.6287	ug/L

>	In	115	3160654	3296823	58608	1.8	3296822.759888		ug/L
	Sn	120	17270	20357	429	2.1	0.000713	0.4906	ug/L
	Sb	121	224	110663	2984	2.7	0.033512	66.2292	ug/L
	Cs	133	20	31	5	17.1	0.000003	-0.0057	ug/L
	Ba	138	86	2748479	92521	3.4	0.834032	519.2907	ug/L
	Ce	140	36	123	3	2.0	0.000026	0.0143	ug/L
>	Tm	169	2730830	2873295	15988	0.6	2873294.608737		ug/L
	Tl	205	25	28626	166	0.6	0.009954	7.5771	ug/L
	Pb	208	143	98200	1217	1.2	0.034126	19.3374	ug/L
	Bi	209	261	58783	1559	2.7	0.020365	14.5043	ug/L
	Th	232	199	2367	1201	50.7	0.000752	0.7613	ug/L
	U	238	16	25	7	28.0	0.000003	0.0008	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.023
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.615
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.308
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	105.217
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: scv

Sample Description: 1x

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:41:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 405

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\scv.065

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	20824	1526	7.3	0.015872	18.2287	ug/L
Be	9	33	5247	161	3.1	0.003984	13.1050	ug/L
B	11	169	69570	1063	1.5	0.053032	148.8014	ug/L
Na	23	6859	119513384	2288432	1.9	91.328075	20497.7254	ug/L
Mg	24	156	31669756	155782	0.5	24.206342	7969.2042	ug/L
Al	27	891	858486	16714	1.9	0.655404	154.2385	ug/L
K	39	409328	22795678	73606	0.3	17.096903	1979.6878	ug/L
Ca	44	69014	9905086	210215	2.1	7.515517	29241.8586	ug/L
Sc	45	1256607	1308541	19175	1.5	1308540.809631		ug/L
Ti	47	283	539	14	2.6	0.000187	0.2728	ug/L
Ti	48	-5947	221316	15689	7.1	0.173777	20.9522	ug/L
V	51	5985	469996	7489	1.6	0.354434	37.3296	ug/L
Cr	52	6084	221604	1159	0.5	0.164529	21.0024	ug/L
Cr	53	1948	27178	518	1.9	0.019224	20.8124	ug/L
Mn	55	361	560532	4968	0.9	0.428137	38.7215	ug/L
Fe	54	51442	166561	1686	1.0	0.086374	149.1551	ug/L
Fe	57	3551	32596	890	2.7	0.022092	98.9357	ug/L
Co	59	37	303866	2311	0.8	0.232238	27.0920	ug/L
Ni	60	52	148012	1585	1.1	0.113097	59.7033	ug/L
Ni	62	215	22610	545	2.4	0.017112	59.9608	ug/L
Cu	65	54	61401	689	1.1	0.086775	22.7121	ug/L
Cu	63	85	123690	1286	1.0	0.174824	22.6393	ug/L
Zn	66	245	111619	1409	1.3	0.157488	77.5561	ug/L
Zn	68	228	110764	2719	2.5	0.156304	102.8903	ug/L
Ge	74	709212	707445	19609	2.8	707444.816564		ug/L
As	75	154	114407	3194	2.8	0.161503	54.1727	ug/L
As-1	75	7631	121051	3485	2.9	0.160349	56.6843	ug/L
Se	77	105	1807	93	5.1	0.000513	10.9805	ug/L
Se	82	-3	2275	9	0.4	0.000687	10.4504	ug/L
Sr	88	94	8435631	221415	2.6	2.546718	310.5964	ug/L
Y	89	67	357	7	1.9	0.000086	0.0530	ug/L
Mo	98	144	809261	5921	0.7	0.244217	124.5682	ug/L
Ag	107	37	11026	268	2.4	0.003316	0.9420	ug/L
Ag	109	38	10825	144	1.3	0.003255	0.9556	ug/L
Cd	111	24	18079	327	1.8	0.005448	6.4229	ug/L
Cd	114	20	42832	714	1.7	0.012921	6.4981	ug/L

>	In	115	3160654	3313494	50070	1.5	3313494.238136		ug/L
	Sn	120	17270	20255	876	4.3	0.000647	0.0797	ug/L
	Sb	121	224	547334	9203	1.7	0.165134	64.1225	ug/L
	Cs	133	20	47	4	8.7	0.000008	-0.0007	ug/L
	Ba	138	86	14452852	333747	2.3	4.361657	543.1429	ug/L
	Ce	140	36	570	25	4.4	0.000161	0.0163	ug/L
>	Tm	169	2730830	2932787	58298	2.0	2932786.653361		ug/L
	Tl	205	25	140684	1733	1.2	0.047966	7.3074	ug/L
	Pb	208	143	486410	6482	1.3	0.165822	18.7976	ug/L
	Bi	209	261	278891	8425	3.0	0.094986	13.5223	ug/L
	Th	232	199	4326	2183	50.5	0.001393	0.2786	ug/L
	U	238	16	54	9	17.3	0.000013	0.0012	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.133
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	99.751
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.836
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	107.395
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Elandata\wizard\SmartTune\1-SmartTune Full 4rpm.swz

Start Time: 9/17/2012 11:57:32 AM

End Time: 9/17/2012 12:00:50 PM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A

Target/Obtained mass (9.0122/9.025), Target/Obtained resolution (0.7/0.714)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)

Target/Obtained mass (75.93/75.975), Target/Obtained resolution (0.7/0.680)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.686)

Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.683)

Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.685)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Elandata\wizard\SmartTune\1-SmartTune Full 4rpm.swz

Optimization Status

Start Time: 9/17/2012 11:57:32 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\Elandata\Method\1-tuning.mth.

Tuning File: Default.tun

Iterations: 6

Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.05 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (9.0122/9.025), Target/Obtained resolution (0.7/0.714)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)

Target/Obtained mass (75.93/75.975), Target/Obtained resolution (0.7/0.680)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.686)

Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.683)

Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.685)

[Passed] Optimum value(s): N/A

End Time: 9/17/2012 12:00:50 PM

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:51:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.066

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	45	4	9.7	0.000001	0.0041	ug/L
Be	9	33	29	2	7.3	-0.000004	-0.0124	ug/L
B	11	169	306	5	1.5	0.000096	0.3388	ug/L
Na	23	6859	10445	560	5.4	0.002415	-1.3781	ug/L
Mg	24	156	350	38	10.9	0.000140	-0.1684	ug/L
Al	27	891	1176	8	0.6	0.000178	0.0101	ug/L
K	39	409328	422207	4846	1.1	-0.007246	-0.6519	ug/L
Ca	44	69014	58470	865	1.5	-0.010817	-37.2982	ug/L
Sc	45	1256607	1326137	39002	2.9	1326137.174766		ug/L
Ti	47	283	291	10	3.4	-0.000006	0.0061	ug/L
Ti	48	-5947	-4804	126	2.6	0.001110	0.1275	ug/L
V	51	5985	4756	148	3.1	-0.001176	-0.0986	ug/L
Cr	52	6084	6710	169	2.5	0.000219	0.0343	ug/L
Cr	53	1948	1525	44	2.9	-0.000399	-0.3863	ug/L
Mn	55	361	543	41	7.5	0.000122	0.0091	ug/L
Fe	54	51442	86936	4136	4.8	0.024616	43.9896	ug/L
Fe	57	3551	3946	146	3.7	0.000149	0.4814	ug/L
Co	59	37	35	3	8.6	-0.000003	-0.0051	ug/L
Ni	60	52	60	2	4.1	0.000004	0.0007	ug/L
Ni	62	215	250	17	6.8	0.000017	0.0558	ug/L
Cu	65	54	45	8	16.8	-0.000016	-0.0109	ug/L
Cu	63	85	84	5	6.3	-0.000008	-0.0010	ug/L
Zn	66	245	187	11	5.9	-0.000095	-0.0040	ug/L
Zn	68	228	198	10	5.1	-0.000058	0.0106	ug/L
Ge	74	709212	748874	27502	3.7	748873.948456		ug/L
As	75	154	153	32	20.7	-0.000011	0.0316	ug/L
As-1	75	7631	7752	240	3.1	-0.000399	-0.0182	ug/L
Se	77	105	106	11	10.1	-0.000001	-0.0360	ug/L
Se	82	-3	-1	17	2011.3	0.000000	0.0240	ug/L
Sr	88	94	151	13	8.9	0.000016	-0.0017	ug/L
Y	89	67	69	14	19.7	-0.000000	0.0132	ug/L
Mo	98	144	1192	547	45.9	0.000318	0.1659	ug/L
Ag	107	37	205	45	21.8	0.000051	0.0161	ug/L
Ag	109	38	184	29	15.8	0.000044	0.0138	ug/L
Cd	111	24	15	2	10.0	-0.000003	-0.0028	ug/L
Cd	114	20	-1	22	1690.1	-0.000007	-0.0053	ug/L

> In	115	3160654	3298389	110924	3.4	3298389.427709		ug/L
Sn	120	17270	21433	1133	5.3	0.001031	0.1878	ug/L
Sb	121	224	616	332	53.9	0.000117	0.3372	ug/L
Cs	133	20	18	4	19.2	-0.000001	-0.0015	ug/L
Ba	138	86	127	5	4.0	0.000011	0.0001	ug/L
Ce	140	36	44	5	10.3	0.000002	0.0004	ug/L
> Tm	169	2730830	2896820	67036	2.3	2896819.824382		ug/L
Tl	205	25	25	5	18.7	-0.000001	-0.0014	ug/L
Pb	208	143	152	9	5.9	0.000000	-0.0013	ug/L
Bi	209	261	621	345	55.6	0.000119	0.0191	ug/L
Th	232	199	2373	1178	49.7	0.000746	0.1510	ug/L
U	238	16	14	2	10.7	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.533
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.592
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.358
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	106.078
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:54:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.067

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	39	3	8.3	-0.000004	-0.0015	ug/L
Be	9	33	28	4	14.7	-0.000005	-0.0135	ug/L
B	11	169	318	29	9.0	0.000105	0.3648	ug/L
Na	23	6859	9403	125	1.3	0.001627	-1.5550	ug/L
Mg	24	156	333	15	4.6	0.000127	-0.1728	ug/L
Al	27	891	1147	17	1.5	0.000155	0.0048	ug/L
K	39	409328	413656	825	0.2	-0.014034	-1.4378	ug/L
Ca	44	69014	57511	515	0.9	-0.011588	-40.2976	ug/L
Sc	45	1256607	1327299	21749	1.6	1327299.053685		ug/L
Ti	47	283	287	21	7.3	-0.000009	0.0019	ug/L
Ti	48	-5947	-4774	65	1.4	0.001136	0.1307	ug/L
V	51	5985	4648	79	1.7	-0.001260	-0.1075	ug/L
Cr	52	6084	6506	271	4.2	0.000063	0.0144	ug/L
Cr	53	1948	1554	30	1.9	-0.000379	-0.3653	ug/L
Mn	55	361	536	17	3.3	0.000117	0.0086	ug/L
Fe	54	51442	86755	1509	1.7	0.024433	43.6777	ug/L
Fe	57	3551	3766	78	2.1	0.000011	-0.1367	ug/L
Co	59	37	38	4	9.3	-0.000001	-0.0049	ug/L
Ni	60	52	47	3	5.5	-0.000006	-0.0043	ug/L
Ni	62	215	254	2	0.6	0.000020	0.0655	ug/L
Cu	65	54	39	2	5.1	-0.000023	-0.0126	ug/L
Cu	63	85	73	6	8.6	-0.000021	-0.0027	ug/L
Zn	66	245	187	10	5.4	-0.000091	-0.0019	ug/L
Zn	68	228	193	25	12.9	-0.000059	0.0097	ug/L
Ge	74	709212	735229	22067	3.0	735229.113004		ug/L
As	75	154	103	22	21.1	-0.000076	0.0096	ug/L
As-1	75	7631	7626	159	2.1	-0.000381	-0.0120	ug/L
Se	77	105	103	11	10.8	-0.000003	-0.0706	ug/L
Se	82	-3	-10	13	133.8	-0.000002	-0.0151	ug/L
Sr	88	94	132	16	11.8	0.000009	-0.0024	ug/L
Y	89	67	70	13	18.2	-0.000000	0.0130	ug/L
Mo	98	144	325	154	47.3	0.000051	0.0299	ug/L
Ag	107	37	74	10	13.7	0.000010	0.0047	ug/L
Ag	109	38	69	5	6.6	0.000009	0.0035	ug/L
Cd	111	24	22	3	15.7	-0.000001	-0.0006	ug/L
Cd	114	20	-11	10	92.6	-0.000010	-0.0068	ug/L

> In	115	3160654	3356098	26343	0.8	3356097.759918		ug/L
Sn	120	17270	22265	1401	6.3	0.001169	0.2267	ug/L
Sb	121	224	362	150	41.3	0.000037	0.3063	ug/L
Cs	133	20	18	1	6.5	-0.000001	-0.0015	ug/L
Ba	138	86	137	7	5.3	0.000014	0.0003	ug/L
Ce	140	36	44	10	22.2	0.000002	0.0004	ug/L
> Tm	169	2730830	2939316	32694	1.1	2939316.268015		ug/L
Tl	205	25	22	8	34.6	-0.000002	-0.0015	ug/L
Pb	208	143	136	11	8.2	-0.000006	-0.0020	ug/L
Bi	209	261	234	130	55.7	-0.000016	-0.0002	ug/L
Th	232	199	1220	640	52.4	0.000341	0.0712	ug/L
U	238	16	11	4	36.4	-0.000002	-0.0004	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.626
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.668
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.184
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	107.635
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1ppb Sb1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:58:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 406

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1ppb Sb1.068

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	43	18	41.3	0.000001	0.0042	ug/L
Be	9	33	24	3	10.3	-0.000007	-0.0201	ug/L
B	11	169	143	15	10.3	-0.000021	0.0099	ug/L
Na	23	6859	5513	154	2.8	-0.001080	-2.1626	ug/L
Mg	24	156	247	19	7.5	0.000072	-0.1907	ug/L
Al	27	891	746	32	4.3	-0.000116	-0.0592	ug/L
K	39	409328	415927	3966	1.0	0.004603	0.7201	ug/L
Ca	44	69014	54405	817	1.5	-0.011712	-40.7792	ug/L
Sc	45	1256607	1259066	10539	0.8	1259066.060399		ug/L
Ti	47	283	240	18	7.5	-0.000035	-0.0341	ug/L
Ti	48	-5947	-4623	70	1.5	0.001060	0.1216	ug/L
V	51	5985	4476	153	3.4	-0.001208	-0.1020	ug/L
Cr	52	6084	6025	155	2.6	-0.000055	-0.0007	ug/L
Cr	53	1948	1519	52	3.4	-0.000344	-0.3268	ug/L
Mn	55	361	362	31	8.5	0.000000	-0.0019	ug/L
Fe	54	51442	50644	891	1.8	-0.000715	0.8543	ug/L
Fe	57	3551	3708	98	2.7	0.000119	0.3473	ug/L
Co	59	37	35	6	17.3	-0.000001	-0.0049	ug/L
Ni	60	52	48	8	16.9	-0.000003	-0.0028	ug/L
Ni	62	215	215	3	1.2	-0.000001	-0.0069	ug/L
Cu	65	54	41	9	21.8	-0.000018	-0.0113	ug/L
Cu	63	85	72	8	11.3	-0.000019	-0.0025	ug/L
Zn	66	245	164	15	9.4	-0.000116	-0.0139	ug/L
Zn	68	228	160	13	8.1	-0.000099	-0.0163	ug/L
Ge	74	709212	715765	11151	1.6	715765.041321		ug/L
As	75	154	113	24	21.5	-0.000058	0.0155	ug/L
As-1	75	7631	7383	83	1.1	-0.000442	-0.0337	ug/L
Se	77	105	98	7	6.7	-0.000002	-0.0666	ug/L
Se	82	-3	7	11	163.6	0.000003	0.0609	ug/L
Sr	88	94	114	10	9.1	0.000006	-0.0029	ug/L
Y	89	67	71	5	6.4	0.000001	0.0136	ug/L
Mo	98	144	238	144	60.3	0.000029	0.0184	ug/L
Ag	107	37	48	2	4.8	0.000003	0.0027	ug/L
Ag	109	38	56	10	18.1	0.000005	0.0026	ug/L
Cd	111	24	19	3	15.8	-0.000002	-0.0013	ug/L
Cd	114	20	18	32	183.2	-0.000001	-0.0023	ug/L

>	In	115	3160654	3183403	44035	1.4	3183403.391881		ug/L
	Sn	120	17270	18193	200	1.1	0.000251	-0.0318	ug/L
	Sb	121	224	4868	482	9.9	0.001460	0.8562	ug/L
	Cs	133	20	23	5	19.9	0.000001	-0.0013	ug/L
	Ba	138	86	102	32	31.5	0.000005	-0.0008	ug/L
	Ce	140	36	33	4	12.1	-0.000001	0.0002	ug/L
>	Tm	169	2730830	2803999	35634	1.3	2803998.840687		ug/L
	Tl	205	25	22	10	43.5	-0.000001	-0.0014	ug/L
	Pb	208	143	131	19	14.3	-0.000006	-0.0020	ug/L
	Bi	209	261	127	60	47.2	-0.000050	-0.0050	ug/L
	Th	232	199	169	56	33.3	-0.000013	0.0015	ug/L
	U	238	16	13	6	50.8	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.196
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.924
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.720
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	102.679
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1ppb Sb2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:02:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 407

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1ppb Sb2.069

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	39	3	6.8	-0.000002	0.0008	ug/L
Be	9	33	27	6	20.7	-0.000005	-0.0135	ug/L
B	11	169	141	8	5.7	-0.000022	0.0081	ug/L
Na	23	6859	5195	59	1.1	-0.001310	-2.2141	ug/L
Mg	24	156	269	16	6.0	0.000091	-0.1847	ug/L
Al	27	891	677	8	1.2	-0.000169	-0.0715	ug/L
K	39	409328	417139	3309	0.8	0.007435	1.0479	ug/L
Ca	44	69014	52982	571	1.1	-0.012604	-44.2501	ug/L
Sc	45	1256607	1252214	15127	1.2	1252214.384046		ug/L
Ti	47	283	254	12	4.5	-0.000022	-0.0164	ug/L
Ti	48	-5947	-4487	61	1.4	0.001148	0.1322	ug/L
V	51	5985	4248	82	1.9	-0.001370	-0.1191	ug/L
Cr	52	6084	5993	113	1.9	-0.000056	-0.0007	ug/L
Cr	53	1948	1430	11	0.8	-0.000408	-0.3960	ug/L
Mn	55	361	364	20	5.4	0.000003	-0.0016	ug/L
Fe	54	51442	49550	981	2.0	-0.001365	-0.2515	ug/L
Fe	57	3551	3721	83	2.2	0.000146	0.4668	ug/L
Co	59	37	31	4	13.3	-0.000004	-0.0052	ug/L
Ni	60	52	47	8	18.0	-0.000004	-0.0032	ug/L
Ni	62	215	236	19	8.0	0.000018	0.0568	ug/L
Cu	65	54	42	8	20.0	-0.000016	-0.0110	ug/L
Cu	63	85	74	4	5.1	-0.000015	-0.0019	ug/L
Zn	66	245	172	18	10.4	-0.000100	-0.0062	ug/L
Zn	68	228	147	12	8.2	-0.000113	-0.0257	ug/L
Ge	74	709212	703568	3385	0.5	703568.064207		ug/L
As	75	154	72	39	53.9	-0.000114	-0.0032	ug/L
As-1	75	7631	7186	67	0.9	-0.000545	-0.0698	ug/L
Se	77	105	109	9	7.8	0.000002	0.0181	ug/L
Se	82	-3	7	22	314.5	0.000003	0.0619	ug/L
Sr	88	94	99	19	19.7	0.000002	-0.0034	ug/L
Y	89	67	62	1	1.6	-0.000002	0.0125	ug/L
Mo	98	144	171	82	48.0	0.000008	0.0081	ug/L
Ag	107	37	50	11	22.2	0.000004	0.0029	ug/L
Ag	109	38	42	6	13.6	0.000001	0.0013	ug/L
Cd	111	24	21	4	18.3	-0.000001	-0.0006	ug/L
Cd	114	20	20	25	127.7	-0.000000	-0.0020	ug/L

> In	115	3160654	3141366	30074	1.0	3141365.839103		ug/L
Sn	120	17270	17279	501	2.9	0.000036	-0.0925	ug/L
Sb	121	224	5130	635	12.4	0.001563	0.8963	ug/L
Cs	133	20	20	2	10.6	-0.000000	-0.0014	ug/L
Ba	138	86	90	6	6.5	0.000002	-0.0012	ug/L
Ce	140	36	28	7	24.1	-0.000002	-0.0000	ug/L
> Tm	169	2730830	2787457	43951	1.6	2787457.150231		ug/L
Tl	205	25	15	3	17.6	-0.000004	-0.0018	ug/L
Pb	208	143	127	8	5.9	-0.000007	-0.0021	ug/L
Bi	209	261	119	69	57.8	-0.000053	-0.0054	ug/L
Th	232	199	160	71	44.6	-0.000016	0.0008	ug/L
U	238	16	15	4	27.2	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	99.650
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	99.204
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.390
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	102.074
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:28:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 101

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-IBL1.070

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	38	9	22.5	-0.000003	-0.0004	ug/L
Be	9	33	26	6	21.5	-0.000006	-0.0167	ug/L
B	11	169	127	15	11.9	-0.000034	-0.0247	ug/L
Na	23	6859	5038	24	0.5	-0.001470	-2.2501	ug/L
Mg	24	156	136	8	6.0	-0.000017	-0.2200	ug/L
Al	27	891	937	19	2.0	0.000033	-0.0240	ug/L
K	39	409328	418900	2210	0.5	0.005936	0.8743	ug/L
Ca	44	69014	52582	1163	2.2	-0.013290	-46.9200	ug/L
Sc	45	1256607	1263191	18690	1.5	1263191.057264		ug/L
Ti	47	283	231	25	10.7	-0.000042	-0.0444	ug/L
Ti	48	-5947	-4437	125	2.8	0.001219	0.1407	ug/L
V	51	5985	4080	213	5.2	-0.001533	-0.1362	ug/L
Cr	52	6084	6248	109	1.7	0.000105	0.0198	ug/L
Cr	53	1948	1390	115	8.2	-0.000449	-0.4407	ug/L
Mn	55	361	368	30	8.1	0.000004	-0.0015	ug/L
Fe	54	51442	52581	1968	3.7	0.000690	3.2472	ug/L
Fe	57	3551	3640	109	3.0	0.000055	0.0606	ug/L
Co	59	37	33	13	38.3	-0.000003	-0.0051	ug/L
Ni	60	52	50	2	4.4	-0.000002	-0.0022	ug/L
Ni	62	215	243	13	5.2	0.000021	0.0696	ug/L
Cu	65	54	41	8	18.2	-0.000020	-0.0118	ug/L
Cu	63	85	70	3	3.8	-0.000025	-0.0033	ug/L
Zn	66	245	173	2	1.0	-0.000110	-0.0112	ug/L
Zn	68	228	156	18	11.6	-0.000110	-0.0235	ug/L
Ge	74	709212	736549	2079	0.3	736549.217263		ug/L
As	75	154	102	8	7.9	-0.000078	0.0091	ug/L
As-1	75	7631	7468	81	1.1	-0.000620	-0.0962	ug/L
Se	77	105	108	14	12.9	0.000001	-0.0004	ug/L
Se	82	-3	6	10	157.2	0.000003	0.0583	ug/L
Sr	88	94	95	23	24.1	-0.000000	-0.0036	ug/L
Y	89	67	62	9	14.6	-0.000002	0.0124	ug/L
Mo	98	144	254	165	64.9	0.000034	0.0210	ug/L
Ag	107	37	46	17	36.3	0.000003	0.0025	ug/L
Ag	109	38	48	15	30.1	0.000003	0.0019	ug/L
Cd	111	24	26	4	16.8	0.000001	0.0013	ug/L
Cd	114	20	-1	36	3901.0	-0.000007	-0.0053	ug/L

> In	115	3160654	3200944	47615	1.5	3200944.329757		ug/L
Sn	120	17270	18230	603	3.3	0.000231	-0.0373	ug/L
Sb	121	224	651	286	43.9	0.000132	0.3432	ug/L
Cs	133	20	16	5	31.5	-0.000002	-0.0016	ug/L
Ba	138	86	92	5	5.1	0.000001	-0.0012	ug/L
Ce	140	36	35	3	9.1	-0.000000	0.0002	ug/L
> Tm	169	2730830	2781132	30378	1.1	2781132.167375		ug/L
Tl	205	25	20	9	44.4	-0.000002	-0.0015	ug/L
Pb	208	143	132	3	2.0	-0.000005	-0.0019	ug/L
Bi	209	261	325	209	64.2	0.000022	0.0053	ug/L
Th	232	199	231	93	40.0	0.000010	0.0060	ug/L
U	238	16	15	5	30.6	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.524
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.855
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.275
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.842
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:32:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-IBL2.071

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	33	3	8.0	-0.000007	-0.0054	ug/L
Be	9	33	23	6	25.9	-0.000008	-0.0255	ug/L
B	11	169	134	4	2.8	-0.000030	-0.0141	ug/L
Na	23	6859	4997	89	1.8	-0.001564	-2.2712	ug/L
Mg	24	156	116	8	6.9	-0.000033	-0.2254	ug/L
Al	27	891	807	21	2.6	-0.000081	-0.0507	ug/L
K	39	409328	418672	1900	0.5	0.000630	0.2600	ug/L
Ca	44	69014	50303	476	0.9	-0.015710	-56.3350	ug/L
Sc	45	1256607	1282993	20311	1.6	1282992.959762		ug/L
Ti	47	283	252	6	2.2	-0.000028	-0.0254	ug/L
Ti	48	-5947	-4266	44	1.0	0.001407	0.1634	ug/L
V	51	5985	3817	98	2.6	-0.001788	-0.1630	ug/L
Cr	52	6084	6040	139	2.3	-0.000134	-0.0107	ug/L
Cr	53	1948	1247	36	2.9	-0.000578	-0.5802	ug/L
Mn	55	361	347	16	4.5	-0.000017	-0.0034	ug/L
Fe	54	51442	50264	824	1.6	-0.001757	-0.9206	ug/L
Fe	57	3551	3672	27	0.7	0.000036	-0.0249	ug/L
Co	59	37	40	8	18.9	0.000001	-0.0046	ug/L
Ni	60	52	42	7	17.9	-0.000009	-0.0058	ug/L
Ni	62	215	234	12	5.2	0.000012	0.0361	ug/L
Cu	65	54	31	3	10.5	-0.000033	-0.0154	ug/L
Cu	63	85	71	8	11.0	-0.000022	-0.0029	ug/L
Zn	66	245	182	12	6.9	-0.000094	-0.0034	ug/L
Zn	68	228	159	2	1.4	-0.000102	-0.0186	ug/L
Ge	74	709212	725523	22308	3.1	725522.966330		ug/L
As	75	154	83	49	58.4	-0.000101	0.0012	ug/L
As-1	75	7631	7390	50	0.7	-0.000567	-0.0778	ug/L
Se	77	105	94	10	10.8	-0.000004	-0.1030	ug/L
Se	82	-3	-13	9	67.6	-0.000003	-0.0314	ug/L
Sr	88	94	98	15	15.3	0.000000	-0.0036	ug/L
Y	89	67	60	12	20.5	-0.000003	0.0119	ug/L
Mo	98	144	117	59	49.9	-0.000010	-0.0011	ug/L
Ag	107	37	38	5	13.4	0.000000	0.0018	ug/L
Ag	109	38	38	9	23.5	-0.000000	0.0009	ug/L
Cd	111	24	18	2	8.6	-0.000002	-0.0019	ug/L
Cd	114	20	-38	58	154.0	-0.000018	-0.0109	ug/L

>	In	115	3160654	3239648	76505	2.4	3239647.586885		ug/L
	Sn	120	17270	18052	466	2.6	0.000109	-0.0719	ug/L
	Sb	121	224	350	121	34.4	0.000037	0.3062	ug/L
	Cs	133	20	15	1	6.7	-0.000002	-0.0016	ug/L
	Ba	138	86	90	9	9.6	0.000001	-0.0013	ug/L
	Ce	140	36	36	4	11.1	-0.000000	0.0002	ug/L
>	Tm	169	2730830	2816545	24021	0.9	2816544.630210		ug/L
	Tl	205	25	14	3	18.9	-0.000004	-0.0019	ug/L
	Pb	208	143	143	3	2.1	-0.000001	-0.0015	ug/L
	Bi	209	261	108	47	43.4	-0.000057	-0.0060	ug/L
	Th	232	199	177	63	35.7	-0.000010	0.0020	ug/L
	U	238	16	13	4	33.5	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.100
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.300
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.499
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	103.139
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL3

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:36:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-IBL3.072

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	36	2	4.2	-0.000005	-0.0030	ug/L
Be	9	33	29	2	7.3	-0.000004	-0.0113	ug/L
B	11	169	126	8	6.4	-0.000038	-0.0373	ug/L
Na	23	6859	5143	137	2.7	-0.001513	-2.2598	ug/L
Mg	24	156	121	3	2.1	-0.000031	-0.2246	ug/L
Al	27	891	866	26	3.0	-0.000045	-0.0424	ug/L
K	39	409328	423690	964	0.2	-0.000665	0.1101	ug/L
Ca	44	69014	49361	376	0.8	-0.017049	-61.5426	ug/L
Sc	45	1256607	1303476	14595	1.1	1303476.026111		ug/L
Ti	47	283	244	7	3.0	-0.000038	-0.0385	ug/L
Ti	48	-5947	-4166	39	0.9	0.001536	0.1789	ug/L
V	51	5985	3760	36	1.0	-0.001878	-0.1725	ug/L
Cr	52	6084	5991	215	3.6	-0.000244	-0.0247	ug/L
Cr	53	1948	1234	52	4.3	-0.000603	-0.6075	ug/L
Mn	55	361	329	14	4.3	-0.000035	-0.0051	ug/L
Fe	54	51442	52518	647	1.2	-0.000640	0.9818	ug/L
Fe	57	3551	3672	22	0.6	-0.000009	-0.2285	ug/L
Co	59	37	34	2	6.7	-0.000003	-0.0051	ug/L
Ni	60	52	46	7	15.4	-0.000006	-0.0042	ug/L
Ni	62	215	243	20	8.2	0.000015	0.0485	ug/L
Cu	65	54	40	7	16.4	-0.000021	-0.0121	ug/L
Cu	63	85	78	9	11.5	-0.000013	-0.0016	ug/L
Zn	66	245	159	19	12.0	-0.000124	-0.0182	ug/L
Zn	68	228	156	9	5.5	-0.000106	-0.0208	ug/L
Ge	74	709212	721816	25877	3.6	721815.817237		ug/L
As	75	154	105	32	30.4	-0.000070	0.0116	ug/L
As-1	75	7631	7429	97	1.3	-0.000461	-0.0403	ug/L
Se	77	105	94	10	10.9	-0.000005	-0.1196	ug/L
Se	82	-3	3	8	252.1	0.000002	0.0434	ug/L
Sr	88	94	100	10	10.0	0.000000	-0.0036	ug/L
Y	89	67	72	4	4.9	0.000000	0.0134	ug/L
Mo	98	144	113	50	44.3	-0.000012	-0.0022	ug/L
Ag	107	37	32	3	9.4	-0.000002	0.0011	ug/L
Ag	109	38	35	5	15.1	-0.000002	0.0005	ug/L
Cd	111	24	21	6	28.3	-0.000001	-0.0007	ug/L
Cd	114	20	6	29	487.4	-0.000004	-0.0042	ug/L

> In	115	3160654	3331043	85353	2.6	3331043.378462		ug/L
Sn	120	17270	18657	681	3.6	0.000136	-0.0643	ug/L
Sb	121	224	255	81	31.9	0.000005	0.2941	ug/L
Cs	133	20	19	6	29.5	-0.000001	-0.0015	ug/L
Ba	138	86	86	10	11.2	-0.000001	-0.0015	ug/L
Ce	140	36	34	3	7.8	-0.000001	0.0001	ug/L
> Tm	169	2730830	2851321	54952	1.9	2851320.874181		ug/L
Tl	205	25	16	6	39.4	-0.000004	-0.0018	ug/L
Pb	208	143	131	22	16.5	-0.000007	-0.0021	ug/L
Bi	209	261	88	40	45.2	-0.000065	-0.0070	ug/L
Th	232	199	152	64	42.0	-0.000020	0.0001	ug/L
U	238	16	13	6	47.6	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.730
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.777
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.391
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	104.412
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL4

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:39:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 104

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-IBL4.073

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	41	11	26.1	-0.000001	0.0011	ug/L
Be	9	33	23	6	28.4	-0.000009	-0.0262	ug/L
B	11	169	113	6	5.4	-0.000047	-0.0628	ug/L
Na	23	6859	5908	40	0.7	-0.000894	-2.1208	ug/L
Mg	24	156	163	7	4.1	0.000002	-0.2138	ug/L
Al	27	891	888	65	7.3	-0.000023	-0.0371	ug/L
K	39	409328	424114	1879	0.4	0.001963	0.4143	ug/L
Ca	44	69014	49275	301	0.6	-0.016850	-60.7703	ug/L
Sc	45	1256607	1294452	20276	1.6	1294452.063230		ug/L
Ti	47	283	230	14	6.2	-0.000047	-0.0519	ug/L
Ti	48	-5947	-4174	42	1.0	0.001508	0.1756	ug/L
V	51	5985	3648	122	3.3	-0.001945	-0.1796	ug/L
Cr	52	6084	5981	170	2.8	-0.000219	-0.0216	ug/L
Cr	53	1948	1194	24	2.0	-0.000628	-0.6336	ug/L
Mn	55	361	359	29	8.1	-0.000010	-0.0028	ug/L
Fe	54	51442	52837	772	1.5	-0.000106	1.8909	ug/L
Fe	57	3551	3713	153	4.1	0.000044	0.0087	ug/L
Co	59	37	36	2	4.3	-0.000002	-0.0049	ug/L
Ni	60	52	52	11	20.7	-0.000001	-0.0017	ug/L
Ni	62	215	229	13	5.8	0.000006	0.0169	ug/L
Cu	65	54	37	6	15.0	-0.000025	-0.0133	ug/L
Cu	63	85	68	5	6.9	-0.000027	-0.0035	ug/L
Zn	66	245	226	9	4.1	-0.000037	0.0248	ug/L
Zn	68	228	197	8	4.2	-0.000053	0.0140	ug/L
Ge	74	709212	733001	15498	2.1	733001.155852		ug/L
As	75	154	116	5	4.1	-0.000058	0.0156	ug/L
As-1	75	7631	7480	61	0.8	-0.000551	-0.0720	ug/L
Se	77	105	96	8	8.1	-0.000003	-0.0739	ug/L
Se	82	-3	-7	17	229.3	-0.000001	-0.0056	ug/L
Sr	88	94	100	8	8.1	0.000002	-0.0034	ug/L
Y	89	67	69	0	0.0	0.000001	0.0135	ug/L
Mo	98	144	91	45	49.6	-0.000017	-0.0048	ug/L
Ag	107	37	34	1	3.4	-0.000001	0.0015	ug/L
Ag	109	38	33	4	11.6	-0.000002	0.0005	ug/L
Cd	111	24	23	2	6.7	-0.000000	0.0002	ug/L
Cd	114	20	10	10	98.4	-0.000003	-0.0036	ug/L

> In	115	3160654	3153600	67078	2.1	3153599.792267		ug/L
Sn	120	17270	17945	980	5.5	0.000225	-0.0391	ug/L
Sb	121	224	202	45	22.1	-0.000007	0.2894	ug/L
Cs	133	20	18	5	24.6	-0.000001	-0.0015	ug/L
Ba	138	86	92	14	15.0	0.000002	-0.0011	ug/L
Ce	140	36	33	7	21.1	-0.000001	0.0002	ug/L
> Tm	169	2730830	2794400	30144	1.1	2794399.749059		ug/L
Tl	205	25	14	1	4.2	-0.000004	-0.0019	ug/L
Pb	208	143	146	8	5.5	-0.000000	-0.0013	ug/L
Bi	209	261	84	32	38.1	-0.000066	-0.0072	ug/L
Th	232	199	150	59	39.4	-0.000019	0.0002	ug/L
U	238	16	16	4	21.5	0.000000	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.012
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.354
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.777
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	102.328
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:43:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV1.074

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	3041	122	4.0	0.002296	2.6398	ug/L
Be	9	33	423	6	1.4	0.000298	0.9813	ug/L
B	11	169	24182	542	2.2	0.018388	51.6392	ug/L
Na	23	6859	2950783	39203	1.3	2.255156	504.2757	ug/L
Mg	24	156	843130	2192	0.3	0.645869	212.4239	ug/L
Al	27	891	298418	7475	2.5	0.227871	53.6049	ug/L
K	39	409328	1581733	20255	1.3	0.886038	102.7736	ug/L
Ca	44	69014	419409	5229	1.2	0.266372	1041.0296	ug/L
Sc	45	1256607	1305550	25980	2.0	1305549.561565		ug/L
Ti	47	283	4949	59	1.2	0.003566	4.9617	ug/L
Ti	48	-5947	50706	1907	3.8	0.043569	5.2483	ug/L
V	51	5985	66219	1358	2.1	0.045960	4.8625	ug/L
Cr	52	6084	140024	1890	1.3	0.102448	13.0800	ug/L
Cr	53	1948	17144	198	1.2	0.011587	12.5625	ug/L
Mn	55	361	38484	756	2.0	0.029204	2.6395	ug/L
Fe	54	51442	257065	6513	2.5	0.156041	267.7879	ug/L
Fe	57	3551	79203	873	1.1	0.057862	259.4252	ug/L
Co	59	37	29065	286	1.0	0.022238	2.5899	ug/L
Ni	60	52	12869	159	1.2	0.009819	5.1825	ug/L
Ni	62	215	2143	34	1.6	0.001471	5.1501	ug/L
Cu	65	54	14272	204	1.4	0.019500	5.0986	ug/L
Cu	63	85	29053	193	0.7	0.039731	5.1451	ug/L
Zn	66	245	7900	54	0.7	0.010491	5.2067	ug/L
Zn	68	228	5926	117	2.0	0.007807	5.1854	ug/L
Ge	74	709212	729099	11800	1.6	729098.965150		ug/L
As	75	154	11507	382	3.3	0.015563	5.2522	ug/L
As-1	75	7631	18028	374	2.1	0.013967	5.0490	ug/L
Se	77	105	1672	23	1.3	0.000484	10.3609	ug/L
Se	82	-3	2193	68	3.1	0.000679	10.3188	ug/L
Sr	88	94	140331	1756	1.3	0.043346	5.2830	ug/L
Y	89	67	21779	105	0.5	0.006710	3.1019	ug/L
Mo	98	144	3240	28	0.9	0.000956	0.4912	ug/L
Ag	107	37	11257	120	1.1	0.003467	0.9850	ug/L
Ag	109	38	11067	50	0.5	0.003408	1.0006	ug/L
Cd	111	24	1409	61	4.3	0.000428	0.5049	ug/L
Cd	114	20	3393	84	2.5	0.001042	0.5224	ug/L

>	In	115	3160654	3235530	24943	0.8	3235529.957325		ug/L
	Sn	120	17270	46386	1539	3.3	0.008875	2.3961	ug/L
	Sb	121	224	6233	797	12.8	0.001857	1.0097	ug/L
	Cs	133	20	88533	840	0.9	0.027359	2.5046	ug/L
	Ba	138	86	64002	691	1.1	0.019755	2.4587	ug/L
	Ce	140	36	16712	152	0.9	0.005154	0.5144	ug/L
>	Tm	169	2730830	2853795	11434	0.4	2853795.058651		ug/L
	Tl	205	25	4921	50	1.0	0.001715	0.2601	ug/L
	Pb	208	143	64515	327	0.5	0.022555	2.5557	ug/L
	Bi	209	261	49293	1564	3.2	0.017177	2.4471	ug/L
	Th	232	199	6643	2945	44.3	0.002253	0.4482	ug/L
	U	238	16	13513	161	1.2	0.004729	0.4984	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	103.895
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	102.804
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	102.369
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169	104.503
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB1

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 16:47:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB1.075

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	36	2	4.8	-0.000005	-0.0026	ug/L
Be	9	33	30	9	28.5	-0.000003	-0.0065	ug/L
B	11	169	139	16	11.6	-0.000026	-0.0024	ug/L
Na	23	6859	6850	1349	19.7	-0.000095	-1.9414	ug/L
Mg	24	156	904	362	40.0	0.000584	-0.0222	ug/L
Al	27	891	870	73	8.4	-0.000028	-0.0384	ug/L
K	39	409328	419840	1203	0.3	0.003004	0.5348	ug/L
Ca	44	69014	48332	414	0.9	-0.017076	-61.6463	ug/L
Sc	45	1256607	1277147	10316	0.8	1277147.285333		ug/L
Ti	47	283	232	20	8.4	-0.000043	-0.0458	ug/L
Ti	48	-5947	-4056	35	0.9	0.001556	0.1814	ug/L
V	51	5985	3555	102	2.9	-0.001978	-0.1831	ug/L
Cr	52	6084	5775	97	1.7	-0.000319	-0.0343	ug/L
Cr	53	1948	1170	7	0.6	-0.000634	-0.6403	ug/L
Mn	55	361	377	17	4.4	0.000008	-0.0012	ug/L
Fe	54	51442	51370	2219	4.3	-0.000722	0.8431	ug/L
Fe	57	3551	3668	58	1.6	0.000046	0.0189	ug/L
Co	59	37	43	3	5.9	0.000004	-0.0043	ug/L
Ni	60	52	48	6	13.6	-0.000004	-0.0032	ug/L
Ni	62	215	215	15	6.8	-0.000003	-0.0146	ug/L
Cu	65	54	52	3	5.6	-0.000004	-0.0078	ug/L
Cu	63	85	85	18	21.2	-0.000003	-0.0004	ug/L
Zn	66	245	235	16	6.6	-0.000020	0.0330	ug/L
Zn	68	228	220	20	9.1	-0.000019	0.0363	ug/L
Ge	74	709212	723729	20347	2.8	723728.917051		ug/L
As	75	154	169	49	29.1	0.000017	0.0408	ug/L
As-1	75	7631	7385	63	0.9	-0.000548	-0.0710	ug/L
Se	77	105	87	11	13.1	-0.000005	-0.1308	ug/L
Se	82	-3	20	8	37.4	0.000007	0.1276	ug/L
Sr	88	94	116	12	10.3	0.000007	-0.0027	ug/L
Y	89	67	54	8	15.2	-0.000004	0.0114	ug/L
Mo	98	144	108	44	41.2	-0.000011	-0.0020	ug/L
Ag	107	37	102	5	4.6	0.000021	0.0077	ug/L
Ag	109	38	90	11	12.3	0.000017	0.0059	ug/L
Cd	111	24	24	6	23.7	0.000000	0.0008	ug/L
Cd	114	20	1	25	4733.6	-0.000006	-0.0051	ug/L

> In	115	3160654	3134558	28954	0.9	3134557.806165		ug/L
Sn	120	17270	17741	379	2.1	0.000197	-0.0472	ug/L
Sb	121	224	694	143	20.6	0.000151	0.3502	ug/L
Cs	133	20	26	2	7.7	0.000002	-0.0012	ug/L
Ba	138	86	101	10	10.1	0.000005	-0.0007	ug/L
Ce	140	36	36	1	1.6	0.000000	0.0003	ug/L
> Tm	169	2730830	2765978	53722	1.9	2765978.252569		ug/L
Tl	205	25	18	7	35.5	-0.000003	-0.0016	ug/L
Pb	208	143	132	13	9.6	-0.000004	-0.0018	ug/L
Bi	209	261	507	174	34.3	0.000087	0.0146	ug/L
Th	232	199	547	162	29.5	0.000124	0.0285	ug/L
U	238	16	19	5	25.3	0.000001	-0.0000	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.635
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.047
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.174
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.287
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244A

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:00:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244A.076

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	36	7	18.3	-0.000005	-0.0025	ug/L
Be	9	33	28	4	15.6	-0.000004	-0.0116	ug/L
B	11	169	123	17	13.4	-0.000039	-0.0387	ug/L
Na	23	6859	7634	430	5.6	0.000505	-1.8069	ug/L
Mg	24	156	194	14	7.0	0.000028	-0.2054	ug/L
Al	27	891	809	39	4.8	-0.000077	-0.0498	ug/L
K	39	409328	422117	4796	1.1	0.004219	0.6755	ug/L
Ca	44	69014	49417	1372	2.8	-0.016297	-58.6158	ug/L
Sc	45	1256607	1279748	33421	2.6	1279747.701771		ug/L
Ti	47	283	215	12	5.7	-0.000057	-0.0650	ug/L
Ti	48	-5947	-4172	132	3.2	0.001472	0.1712	ug/L
V	51	5985	3683	234	6.3	-0.001885	-0.1733	ug/L
Cr	52	6084	5539	134	2.4	-0.000511	-0.0588	ug/L
Cr	53	1948	1231	16	1.3	-0.000587	-0.5901	ug/L
Mn	55	361	282	2	0.7	-0.000067	-0.0079	ug/L
Fe	54	51442	38664	318	0.8	-0.010708	-16.1623	ug/L
Fe	57	3551	3598	168	4.7	-0.000013	-0.2452	ug/L
Co	59	37	40	5	12.4	0.000002	-0.0045	ug/L
Ni	60	52	41	4	9.8	-0.000009	-0.0062	ug/L
Ni	62	215	222	5	2.3	0.000002	0.0030	ug/L
Cu	65	54	70	15	20.8	0.000021	-0.0011	ug/L
Cu	63	85	111	6	4.9	0.000035	0.0045	ug/L
Zn	66	245	333	33	10.0	0.000118	0.1009	ug/L
Zn	68	228	275	4	1.5	0.000060	0.0884	ug/L
Ge	74	709212	718658	17612	2.5	718657.579877		ug/L
As	75	154	128	45	35.5	-0.000038	0.0225	ug/L
As-1	75	7631	7363	87	1.2	-0.000511	-0.0580	ug/L
Se	77	105	90	10	10.9	-0.000004	-0.1042	ug/L
Se	82	-3	12	5	43.2	0.000005	0.0890	ug/L
Sr	88	94	119	7	6.1	0.000008	-0.0026	ug/L
Y	89	67	67	6	8.3	0.000000	0.0133	ug/L
Mo	98	144	118	62	52.2	-0.000008	-0.0002	ug/L
Ag	107	37	51	15	28.5	0.000005	0.0031	ug/L
Ag	109	38	47	11	22.9	0.000003	0.0018	ug/L
Cd	111	24	17	2	8.8	-0.000002	-0.0017	ug/L
Cd	114	20	7	10	145.9	-0.000004	-0.0040	ug/L

>	In	115	3160654	3109581	59695	1.9	3109581.347978		ug/L
	Sn	120	17270	17097	439	2.6	0.000034	-0.0930	ug/L
	Sb	121	224	264	106	39.9	0.000014	0.2974	ug/L
	Cs	133	20	19	5	24.7	-0.000000	-0.0014	ug/L
	Ba	138	86	122	13	11.0	0.000012	0.0001	ug/L
	Ce	140	36	38	14	38.0	0.000001	0.0003	ug/L
>	Tm	169	2730830	2736712	66236	2.4	2736712.184838		ug/L
	Tl	205	25	16	5	31.5	-0.000004	-0.0018	ug/L
	Pb	208	143	186	18	9.6	0.000016	0.0004	ug/L
	Bi	209	261	213	74	34.7	-0.000018	-0.0003	ug/L
	Th	232	199	95	26	27.6	-0.000038	-0.0035	ug/L
	U	238	16	18	5	24.6	0.000001	-0.0000	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	101.841
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	101.332
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	98.384
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169	100.215
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244B

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:04:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244B.077

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	38	9	22.5	-0.000003	-0.0004	ug/L
Be	9	33	34	8	23.3	0.000001	0.0047	ug/L
B	11	169	123	26	21.2	-0.000037	-0.0346	ug/L
Na	23	6859	5782	133	2.3	-0.000882	-2.1180	ug/L
Mg	24	156	127	3	2.0	-0.000024	-0.2223	ug/L
Al	27	891	783	21	2.7	-0.000090	-0.0529	ug/L
K	39	409328	420214	2320	0.6	0.006964	0.9934	ug/L
Ca	44	69014	47602	576	1.2	-0.017229	-62.2428	ug/L
Sc	45	1256607	1263446	26836	2.1	1263446.399297		ug/L
Ti	47	283	212	19	8.7	-0.000057	-0.0652	ug/L
Ti	48	-5947	-4048	66	1.6	0.001527	0.1779	ug/L
V	51	5985	3402	67	2.0	-0.002068	-0.1926	ug/L
Cr	52	6084	5490	87	1.6	-0.000496	-0.0569	ug/L
Cr	53	1948	1146	39	3.4	-0.000642	-0.6495	ug/L
Mn	55	361	272	7	2.5	-0.000072	-0.0084	ug/L
Fe	54	51442	38106	555	1.5	-0.010767	-16.2619	ug/L
Fe	57	3551	3509	37	1.0	-0.000048	-0.4023	ug/L
Co	59	37	31	8	26.8	-0.000005	-0.0053	ug/L
Ni	60	52	46	2	3.7	-0.000005	-0.0036	ug/L
Ni	62	215	232	21	8.8	0.000013	0.0395	ug/L
Cu	65	54	278	25	9.2	0.000311	0.0747	ug/L
Cu	63	85	538	34	6.2	0.000628	0.0813	ug/L
Zn	66	245	360	8	2.1	0.000155	0.1195	ug/L
Zn	68	228	296	13	4.3	0.000090	0.1076	ug/L
Ge	74	709212	719008	6176	0.9	719008.370930		ug/L
As	75	154	71	51	71.8	-0.000118	-0.0044	ug/L
As-1	75	7631	7277	71	1.0	-0.000638	-0.1026	ug/L
Se	77	105	99	13	12.9	-0.000001	-0.0449	ug/L
Se	82	-3	-3	2	62.8	-0.000000	0.0160	ug/L
Sr	88	94	101	15	14.6	0.000002	-0.0033	ug/L
Y	89	67	67	6	9.1	0.000000	0.0133	ug/L
Mo	98	144	80	36	45.3	-0.000020	-0.0067	ug/L
Ag	107	37	30	8	27.2	-0.000002	0.0011	ug/L
Ag	109	38	41	7	17.1	0.000001	0.0013	ug/L
Cd	111	24	17	1	3.3	-0.000002	-0.0018	ug/L
Cd	114	20	-5	33	615.8	-0.000008	-0.0059	ug/L

>	In	115	3160654	3127844	118860	3.8	3127844.101394		ug/L
	Sn	120	17270	17809	1313	7.4	0.000227	-0.0387	ug/L
	Sb	121	224	165	56	33.9	-0.000018	0.2848	ug/L
	Cs	133	20	19	1	5.3	-0.000000	-0.0014	ug/L
	Ba	138	86	97	12	12.6	0.000004	-0.0009	ug/L
	Ce	140	36	32	2	4.8	-0.000001	0.0001	ug/L
>	Tm	169	2730830	2761491	79156	2.9	2761491.235320		ug/L
	Tl	205	25	17	3	15.6	-0.000003	-0.0017	ug/L
	Pb	208	143	143	5	3.6	-0.000001	-0.0014	ug/L
	Bi	209	261	68	17	24.3	-0.000071	-0.0079	ug/L
	Th	232	199	66	19	28.7	-0.000049	-0.0057	ug/L
	U	238	16	13	5	35.3	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	100.544
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	101.381
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	98.962
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169	101.123
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244C

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:08:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244C.078

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	39	6	16.0	-0.000002	0.0000	ug/L
Be	9	33	27	4	13.9	-0.000005	-0.0136	ug/L
B	11	169	106	6	6.1	-0.000052	-0.0767	ug/L
Na	23	6859	7375	234	3.2	0.000293	-1.8544	ug/L
Mg	24	156	132	20	14.8	-0.000021	-0.2214	ug/L
Al	27	891	785	34	4.3	-0.000097	-0.0547	ug/L
K	39	409328	425092	2666	0.6	0.005634	0.8394	ug/L
Ca	44	69014	46502	621	1.3	-0.018681	-67.8924	ug/L
Sc	45	1256607	1283504	33190	2.6	1283504.415984		ug/L
Ti	47	283	233	26	11.2	-0.000043	-0.0463	ug/L
Ti	48	-5947	-3937	54	1.4	0.001664	0.1944	ug/L
V	51	5985	3348	22	0.7	-0.002153	-0.2015	ug/L
Cr	52	6084	5719	279	4.9	-0.000386	-0.0428	ug/L
Cr	53	1948	1125	41	3.7	-0.000672	-0.6819	ug/L
Mn	55	361	289	6	2.2	-0.000062	-0.0075	ug/L
Fe	54	51442	40075	1361	3.4	-0.009717	-14.4747	ug/L
Fe	57	3551	3701	54	1.5	0.000058	0.0739	ug/L
Co	59	37	35	5	13.6	-0.000002	-0.0050	ug/L
Ni	60	52	45	12	25.5	-0.000006	-0.0044	ug/L
Ni	62	215	218	9	4.1	-0.000001	-0.0092	ug/L
Cu	65	54	42	5	12.1	-0.000018	-0.0113	ug/L
Cu	63	85	72	11	14.9	-0.000022	-0.0029	ug/L
Zn	66	245	361	13	3.6	0.000148	0.1158	ug/L
Zn	68	228	289	17	5.9	0.000072	0.0962	ug/L
Ge	74	709212	732337	12117	1.7	732337.190631		ug/L
As	75	154	90	34	37.9	-0.000093	0.0038	ug/L
As-1	75	7631	7248	76	1.1	-0.000861	-0.1813	ug/L
Se	77	105	96	4	4.0	-0.000003	-0.0703	ug/L
Se	82	-3	-7	12	186.1	-0.000001	-0.0016	ug/L
Sr	88	94	96	14	15.0	0.000001	-0.0035	ug/L
Y	89	67	71	15	20.6	0.000001	0.0138	ug/L
Mo	98	144	72	42	58.8	-0.000023	-0.0078	ug/L
Ag	107	37	33	5	13.9	-0.000001	0.0014	ug/L
Ag	109	38	31	7	21.7	-0.000002	0.0004	ug/L
Cd	111	24	15	2	13.3	-0.000003	-0.0027	ug/L
Cd	114	20	2	25	1217.8	-0.000006	-0.0048	ug/L

> In	115	3160654	3128213	63471	2.0	3128213.211614		ug/L
Sn	120	17270	17608	259	1.5	0.000165	-0.0561	ug/L
Sb	121	224	142	27	19.1	-0.000025	0.2821	ug/L
Cs	133	20	19	6	33.3	-0.000000	-0.0014	ug/L
Ba	138	86	118	5	4.2	0.000011	-0.0000	ug/L
Ce	140	36	34	3	7.8	-0.000000	0.0002	ug/L
> Tm	169	2730830	2759516	60369	2.2	2759515.608322		ug/L
Tl	205	25	15	4	26.4	-0.000004	-0.0018	ug/L
Pb	208	143	131	11	8.5	-0.000005	-0.0019	ug/L
Bi	209	261	60	21	34.4	-0.000074	-0.0083	ug/L
Th	232	199	72	13	17.8	-0.000047	-0.0052	ug/L
U	238	16	15	1	3.8	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.140
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.261
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.974
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.050
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244D

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:12:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244D.079

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	38	5	12.3	-0.000003	-0.0010	ug/L
Be	9	33	24	3	13.2	-0.000007	-0.0220	ug/L
B	11	169	118	5	4.5	-0.000044	-0.0530	ug/L
Na	23	6859	48819	365	0.7	0.032154	5.2971	ug/L
Mg	24	156	247	23	9.1	0.000066	-0.1927	ug/L
Al	27	891	817	16	1.9	-0.000080	-0.0506	ug/L
K	39	409328	429450	631	0.1	0.005139	0.7821	ug/L
Ca	44	69014	45609	633	1.4	-0.019787	-72.1950	ug/L
Sc	45	1256607	1298483	34589	2.7	1298482.857009		ug/L
Ti	47	283	198	8	4.2	-0.000073	-0.0870	ug/L
Ti	48	-5947	-3848	67	1.7	0.001768	0.2069	ug/L
V	51	5985	3314	35	1.1	-0.002210	-0.2075	ug/L
Cr	52	6084	5591	270	4.8	-0.000537	-0.0621	ug/L
Cr	53	1948	1085	21	1.9	-0.000714	-0.7267	ug/L
Mn	55	361	309	14	4.5	-0.000050	-0.0064	ug/L
Fe	54	51442	38441	442	1.2	-0.011324	-17.2114	ug/L
Fe	57	3551	3714	45	1.2	0.000036	-0.0261	ug/L
Co	59	37	33	2	4.7	-0.000004	-0.0052	ug/L
Ni	60	52	48	2	3.6	-0.000005	-0.0036	ug/L
Ni	62	215	221	11	4.8	-0.000001	-0.0082	ug/L
Cu	65	54	52	6	11.2	-0.000005	-0.0079	ug/L
Cu	63	85	85	4	4.4	-0.000003	-0.0004	ug/L
Zn	66	245	188	13	6.9	-0.000088	-0.0001	ug/L
Zn	68	228	182	15	8.0	-0.000072	0.0012	ug/L
Ge	74	709212	728663	18349	2.5	728663.231806		ug/L
As	75	154	90	19	21.1	-0.000094	0.0038	ug/L
As-1	75	7631	7310	147	2.0	-0.000726	-0.1338	ug/L
Se	77	105	98	6	6.5	-0.000002	-0.0564	ug/L
Se	82	-3	-4	8	208.6	-0.000000	0.0109	ug/L
Sr	88	94	152	18	12.1	0.000018	-0.0013	ug/L
Y	89	67	65	10	14.7	-0.000001	0.0129	ug/L
Mo	98	144	69	31	44.3	-0.000024	-0.0084	ug/L
Ag	107	37	35	4	12.0	-0.000001	0.0015	ug/L
Ag	109	38	30	8	27.5	-0.000002	0.0003	ug/L
Cd	111	24	17	4	21.2	-0.000002	-0.0020	ug/L
Cd	114	20	9	14	160.4	-0.000003	-0.0037	ug/L

> In	115	3160654	3148375	34815	1.1	3148374.832049		ug/L
Sn	120	17270	17381	446	2.6	0.000057	-0.0865	ug/L
Sb	121	224	122	34	27.7	-0.000032	0.2796	ug/L
Cs	133	20	18	3	17.5	-0.000001	-0.0015	ug/L
Ba	138	86	111	8	6.8	0.000008	-0.0003	ug/L
Ce	140	36	32	1	1.8	-0.000001	0.0001	ug/L
> Tm	169	2730830	2740682	35115	1.3	2740682.041725		ug/L
Tl	205	25	17	3	15.6	-0.000003	-0.0017	ug/L
Pb	208	143	151	9	6.0	0.000003	-0.0010	ug/L
Bi	209	261	49	11	23.0	-0.000078	-0.0089	ug/L
Th	232	199	55	16	29.2	-0.000053	-0.0065	ug/L
U	238	16	10	1	5.6	-0.000002	-0.0004	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.332
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.743
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.612
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.361
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244E

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:16:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244E.080

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	36	5	13.6	-0.000004	-0.0022	ug/L
Be	9	33	24	7	28.8	-0.000007	-0.0224	ug/L
B	11	169	116	8	6.8	-0.000043	-0.0520	ug/L
Na	23	6859	10231	177	1.7	0.002583	-1.3404	ug/L
Mg	24	156	166	12	7.4	0.000006	-0.2124	ug/L
Al	27	891	803	27	3.3	-0.000078	-0.0501	ug/L
K	39	409328	422389	2745	0.6	0.006225	0.9078	ug/L
Ca	44	69014	45549	192	0.4	-0.019122	-69.6081	ug/L
Sc	45	1256607	1272444	9920	0.8	1272443.952678		ug/L
Ti	47	283	205	6	2.7	-0.000064	-0.0744	ug/L
Ti	48	-5947	-3840	24	0.6	0.001715	0.2005	ug/L
V	51	5985	3276	37	1.1	-0.002188	-0.2052	ug/L
Cr	52	6084	5744	328	5.7	-0.000326	-0.0352	ug/L
Cr	53	1948	1075	15	1.4	-0.000705	-0.7176	ug/L
Mn	55	361	298	32	10.6	-0.000053	-0.0067	ug/L
Fe	54	51442	39088	1647	4.2	-0.010210	-15.3143	ug/L
Fe	57	3551	3632	95	2.6	0.000028	-0.0597	ug/L
Co	59	37	35	2	5.7	-0.000002	-0.0050	ug/L
Ni	60	52	39	4	9.7	-0.000011	-0.0069	ug/L
Ni	62	215	220	9	4.3	0.000002	0.0026	ug/L
Cu	65	54	45	4	8.5	-0.000015	-0.0105	ug/L
Cu	63	85	77	4	4.5	-0.000014	-0.0019	ug/L
Zn	66	245	182	6	3.5	-0.000095	-0.0040	ug/L
Zn	68	228	193	6	3.0	-0.000058	0.0103	ug/L
Ge	74	709212	730669	10317	1.4	730668.518298		ug/L
As	75	154	112	54	48.0	-0.000064	0.0137	ug/L
As-1	75	7631	7352	103	1.4	-0.000698	-0.1237	ug/L
Se	77	105	92	9	9.9	-0.000004	-0.1045	ug/L
Se	82	-3	-2	14	922.2	0.000000	0.0217	ug/L
Sr	88	94	111	3	2.3	0.000005	-0.0030	ug/L
Y	89	67	62	11	18.2	-0.000002	0.0124	ug/L
Mo	98	144	60	19	31.2	-0.000027	-0.0099	ug/L
Ag	107	37	38	5	13.9	0.000000	0.0018	ug/L
Ag	109	38	25	5	18.3	-0.000004	-0.0003	ug/L
Cd	111	24	19	6	32.0	-0.000002	-0.0013	ug/L
Cd	114	20	12	21	182.1	-0.000003	-0.0033	ug/L

> In	115	3160654	3160264	51824	1.6	3160264.282342		ug/L
Sn	120	17270	17445	947	5.4	0.000055	-0.0870	ug/L
Sb	121	224	116	32	27.2	-0.000034	0.2787	ug/L
Cs	133	20	17	3	19.3	-0.000001	-0.0015	ug/L
Ba	138	86	175	12	7.2	0.000028	0.0021	ug/L
Ce	140	36	31	6	17.6	-0.000001	0.0001	ug/L
> Tm	169	2730830	2781177	28984	1.0	2781176.814313		ug/L
Tl	205	25	15	3	17.2	-0.000004	-0.0018	ug/L
Pb	208	143	231	18	7.8	0.000031	0.0021	ug/L
Bi	209	261	37	10	27.4	-0.000082	-0.0095	ug/L
Th	232	199	49	12	24.8	-0.000055	-0.0069	ug/L
U	238	16	14	3	18.4	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.260
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.025
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.988
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.844
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244F

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:19:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 111

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244F.081

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	34	10	30.6	-0.000006	-0.0045	ug/L
Be	9	33	28	3	10.7	-0.000004	-0.0121	ug/L
B	11	169	106	9	8.9	-0.000052	-0.0761	ug/L
Na	23	6859	17052	58	0.3	0.007802	-0.1689	ug/L
Mg	24	156	373	25	6.7	0.000166	-0.1597	ug/L
Al	27	891	883	20	2.2	-0.000022	-0.0370	ug/L
K	39	409328	421634	3984	0.9	0.002092	0.4293	ug/L
Ca	44	69014	45133	398	0.9	-0.019826	-72.3448	ug/L
Sc	45	1256607	1286282	24281	1.9	1286282.137260		ug/L
Ti	47	283	215	10	4.7	-0.000058	-0.0667	ug/L
Ti	48	-5947	-3779	39	1.0	0.001794	0.2101	ug/L
V	51	5985	3143	73	2.3	-0.002319	-0.2190	ug/L
Cr	52	6084	5574	109	2.0	-0.000507	-0.0583	ug/L
Cr	53	1948	1077	39	3.6	-0.000712	-0.7250	ug/L
Mn	55	361	296	19	6.5	-0.000057	-0.0071	ug/L
Fe	54	51442	38493	730	1.9	-0.011011	-16.6776	ug/L
Fe	57	3551	3751	23	0.6	0.000091	0.2201	ug/L
Co	59	37	41	4	8.5	0.000003	-0.0044	ug/L
Ni	60	52	45	18	39.4	-0.000006	-0.0045	ug/L
Ni	62	215	231	6	2.4	0.000009	0.0261	ug/L
Cu	65	54	43	9	21.3	-0.000017	-0.0110	ug/L
Cu	63	85	75	5	6.7	-0.000018	-0.0023	ug/L
Zn	66	245	205	31	15.3	-0.000064	0.0117	ug/L
Zn	68	228	203	18	8.7	-0.000045	0.0191	ug/L
Ge	74	709212	731970	23641	3.2	731970.328159		ug/L
As	75	154	87	36	41.3	-0.000098	0.0022	ug/L
As-1	75	7631	7223	25	0.3	-0.000885	-0.1899	ug/L
Se	77	105	90	8	8.7	-0.000005	-0.1132	ug/L
Se	82	-3	-11	15	130.0	-0.000003	-0.0248	ug/L
Sr	88	94	162	3	2.1	0.000022	-0.0010	ug/L
Y	89	67	65	3	4.6	-0.000001	0.0129	ug/L
Mo	98	144	67	26	38.9	-0.000024	-0.0086	ug/L
Ag	107	37	30	3	8.5	-0.000002	0.0011	ug/L
Ag	109	38	31	2	6.6	-0.000002	0.0004	ug/L
Cd	111	24	21	6	26.6	-0.000001	-0.0006	ug/L
Cd	114	20	0	20	23657.5	-0.000006	-0.0051	ug/L

> In	115	3160654	3151561	64476	2.0	3151561.483610		ug/L
Sn	120	17270	17683	452	2.6	0.000147	-0.0612	ug/L
Sb	121	224	92	16	17.0	-0.000042	0.2758	ug/L
Cs	133	20	15	7	44.4	-0.000002	-0.0016	ug/L
Ba	138	86	268	8	2.8	0.000058	0.0059	ug/L
Ce	140	36	34	10	27.7	-0.000000	0.0002	ug/L
> Tm	169	2730830	2709779	58444	2.2	2709778.919608		ug/L
Tl	205	25	12	4	30.7	-0.000005	-0.0020	ug/L
Pb	208	143	288	17	6.0	0.000054	0.0048	ug/L
Bi	209	261	41	19	45.0	-0.000080	-0.0093	ug/L
Th	232	199	49	8	16.3	-0.000055	-0.0068	ug/L
U	238	16	10	6	53.3	-0.000002	-0.0004	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.361
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.209
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.712
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.229
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244G

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:23:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 112

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244G.082

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	38	10	26.1	-0.000002	-0.0001	ug/L
Be	9	33	27	5	18.0	-0.000004	-0.0129	ug/L
B	11	169	106	17	16.4	-0.000050	-0.0715	ug/L
Na	23	6859	8635	19	0.2	0.001361	-1.6146	ug/L
Mg	24	156	167	5	2.7	0.000008	-0.2118	ug/L
Al	27	891	825	17	2.0	-0.000057	-0.0453	ug/L
K	39	409328	420577	1634	0.4	0.006440	0.9327	ug/L
Ca	44	69014	44420	647	1.5	-0.019828	-72.3543	ug/L
Sc	45	1256607	1266838	36933	2.9	1266838.024539		ug/L
Ti	47	283	188	18	9.6	-0.000076	-0.0921	ug/L
Ti	48	-5947	-3757	48	1.3	0.001765	0.2065	ug/L
V	51	5985	3164	120	3.8	-0.002262	-0.2129	ug/L
Cr	52	6084	5542	173	3.1	-0.000467	-0.0532	ug/L
Cr	53	1948	1052	57	5.4	-0.000719	-0.7327	ug/L
Mn	55	361	286	13	4.4	-0.000062	-0.0075	ug/L
Fe	54	51442	37927	331	0.9	-0.010979	-16.6231	ug/L
Fe	57	3551	3694	123	3.3	0.000090	0.2157	ug/L
Co	59	37	37	9	24.0	-0.000000	-0.0048	ug/L
Ni	60	52	40	8	20.2	-0.000010	-0.0063	ug/L
Ni	62	215	227	11	4.9	0.000008	0.0224	ug/L
Cu	65	54	47	7	14.6	-0.000011	-0.0095	ug/L
Cu	63	85	71	3	4.5	-0.000022	-0.0028	ug/L
Zn	66	245	215	12	5.6	-0.000046	0.0204	ug/L
Zn	68	228	200	12	6.0	-0.000044	0.0195	ug/L
Ge	74	709212	719377	8863	1.2	719377.246227		ug/L
As	75	154	140	76	54.1	-0.000021	0.0282	ug/L
As-1	75	7631	7419	16	0.2	-0.000445	-0.0348	ug/L
Se	77	105	84	10	11.6	-0.000006	-0.1435	ug/L
Se	82	-3	-4	15	433.3	-0.000000	0.0128	ug/L
Sr	88	94	110	15	13.2	0.000006	-0.0029	ug/L
Y	89	67	61	3	4.7	-0.000001	0.0126	ug/L
Mo	98	144	58	18	32.0	-0.000027	-0.0101	ug/L
Ag	107	37	31	7	21.3	-0.000002	0.0013	ug/L
Ag	109	38	26	7	24.7	-0.000004	-0.0001	ug/L
Cd	111	24	17	6	35.3	-0.000002	-0.0016	ug/L
Cd	114	20	-8	6	73.9	-0.000009	-0.0064	ug/L

> In	115	3160654	3087340	120322	3.9	3087340.406640		ug/L
Sn	120	17270	17628	307	1.7	0.000249	-0.0324	ug/L
Sb	121	224	98	20	19.9	-0.000039	0.2768	ug/L
Cs	133	20	16	1	7.1	-0.000001	-0.0015	ug/L
Ba	138	86	114	9	7.8	0.000010	-0.0001	ug/L
Ce	140	36	34	6	16.4	-0.000000	0.0002	ug/L
> Tm	169	2730830	2723839	39549	1.5	2723838.984438		ug/L
Tl	205	25	15	3	19.7	-0.000004	-0.0018	ug/L
Pb	208	143	126	5	4.1	-0.000006	-0.0020	ug/L
Bi	209	261	41	3	7.5	-0.000081	-0.0093	ug/L
Th	232	199	44	5	10.4	-0.000057	-0.0072	ug/L
U	238	16	14	5	33.0	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.814
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.433
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.680
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.744
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244H

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:27:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 113

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244H.083

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	65	4	6.2	0.000018	0.0234	ug/L
Be	9	33	28	5	17.4	-0.000004	-0.0113	ug/L
B	11	169	124	9	7.6	-0.000038	-0.0377	ug/L
Na	23	6859	11406	110	1.0	0.003413	-1.1541	ug/L
Mg	24	156	201	18	8.7	0.000032	-0.2039	ug/L
Al	27	891	867	36	4.1	-0.000035	-0.0400	ug/L
K	39	409328	421769	674	0.2	0.002346	0.4587	ug/L
Ca	44	69014	44412	384	0.9	-0.020377	-74.4911	ug/L
Sc	45	1256607	1285950	29189	2.3	1285949.669886		ug/L
Ti	47	283	192	9	4.4	-0.000076	-0.0915	ug/L
Ti	48	-5947	-3730	72	1.9	0.001831	0.2145	ug/L
V	51	5985	3094	71	2.3	-0.002356	-0.2229	ug/L
Cr	52	6084	5632	251	4.5	-0.000461	-0.0524	ug/L
Cr	53	1948	1017	5	0.5	-0.000759	-0.7752	ug/L
Mn	55	361	303	27	8.8	-0.000052	-0.0066	ug/L
Fe	54	51442	39144	685	1.8	-0.010494	-15.7982	ug/L
Fe	57	3551	3707	57	1.6	0.000058	0.0737	ug/L
Co	59	37	36	6	15.7	-0.000001	-0.0049	ug/L
Ni	60	52	48	8	16.9	-0.000004	-0.0033	ug/L
Ni	62	215	211	12	5.7	-0.000007	-0.0280	ug/L
Cu	65	54	44	5	10.4	-0.000015	-0.0105	ug/L
Cu	63	85	77	5	6.9	-0.000014	-0.0019	ug/L
Zn	66	245	351	11	3.1	0.000137	0.1106	ug/L
Zn	68	228	297	17	5.9	0.000086	0.1055	ug/L
Ge	74	709212	726989	19852	2.7	726988.936997		ug/L
As	75	154	87	53	60.6	-0.000097	0.0025	ug/L
As-1	75	7631	7379	100	1.4	-0.000607	-0.0917	ug/L
Se	77	105	90	8	9.3	-0.000004	-0.1075	ug/L
Se	82	-3	-3	28	884.2	-0.000000	0.0117	ug/L
Sr	88	94	171	7	3.9	0.000025	-0.0006	ug/L
Y	89	67	59	4	6.0	-0.000003	0.0120	ug/L
Mo	98	144	58	21	35.7	-0.000027	-0.0102	ug/L
Ag	107	37	26	2	5.8	-0.000003	0.0008	ug/L
Ag	109	38	32	12	36.3	-0.000002	0.0004	ug/L
Cd	111	24	20	5	25.6	-0.000001	-0.0009	ug/L
Cd	114	20	-18	11	60.3	-0.000012	-0.0081	ug/L

>	In	115	3160654	3138126	122082	3.9	3138125.871620		ug/L
	Sn	120	17270	18323	505	2.8	0.000384	0.0056	ug/L
	Sb	121	224	80	17	20.8	-0.000045	0.2745	ug/L
	Cs	133	20	18	3	17.3	-0.000001	-0.0015	ug/L
	Ba	138	86	205	30	14.5	0.000038	0.0034	ug/L
	Ce	140	36	37	2	5.6	0.000001	0.0003	ug/L
>	Tm	169	2730830	2729290	69339	2.5	2729289.631428		ug/L
	Tl	205	25	14	7	51.5	-0.000004	-0.0019	ug/L
	Pb	208	143	135	11	8.2	-0.000003	-0.0017	ug/L
	Bi	209	261	43	18	42.5	-0.000080	-0.0092	ug/L
	Th	232	199	42	5	11.9	-0.000057	-0.0074	ug/L
	U	238	16	14	3	24.7	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.335
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.507
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.287
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.944
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244I

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:31:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 114

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244I.084

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	36	4	11.3	-0.000005	-0.0030	ug/L
Be	9	33	28	5	18.6	-0.000004	-0.0121	ug/L
B	11	169	113	8	7.1	-0.000046	-0.0597	ug/L
Na	23	6859	118998	421	0.4	0.087381	17.6936	ug/L
Mg	24	156	153	17	10.9	-0.000004	-0.2158	ug/L
Al	27	891	874	26	3.0	-0.000028	-0.0383	ug/L
K	39	409328	419985	2862	0.7	0.001900	0.4071	ug/L
Ca	44	69014	44013	420	1.0	-0.020584	-75.2964	ug/L
Sc	45	1256607	1282477	39171	3.1	1282476.958207		ug/L
Ti	47	283	197	8	4.2	-0.000072	-0.0855	ug/L
Ti	48	-5947	-3719	40	1.1	0.001831	0.2146	ug/L
V	51	5985	3087	68	2.2	-0.002354	-0.2227	ug/L
Cr	52	6084	5632	173	3.1	-0.000446	-0.0506	ug/L
Cr	53	1948	1034	24	2.3	-0.000743	-0.7586	ug/L
Mn	55	361	291	24	8.2	-0.000061	-0.0074	ug/L
Fe	54	51442	38891	384	1.0	-0.010593	-15.9671	ug/L
Fe	57	3551	3601	101	2.8	-0.000018	-0.2677	ug/L
Co	59	37	39	7	18.0	0.000001	-0.0046	ug/L
Ni	60	52	38	4	9.7	-0.000011	-0.0072	ug/L
Ni	62	215	216	29	13.2	-0.000003	-0.0150	ug/L
Cu	65	54	49	6	11.4	-0.000008	-0.0088	ug/L
Cu	63	85	81	7	8.6	-0.000008	-0.0011	ug/L
Zn	66	245	213	20	9.5	-0.000051	0.0181	ug/L
Zn	68	228	206	3	1.3	-0.000037	0.0241	ug/L
Ge	74	709212	724155	20584	2.8	724154.879866		ug/L
As	75	154	110	33	30.0	-0.000064	0.0137	ug/L
As-1	75	7631	7365	102	1.4	-0.000583	-0.0833	ug/L
Se	77	105	91	10	11.2	-0.000004	-0.0929	ug/L
Se	82	-3	-1	10	1182.9	0.000000	0.0241	ug/L
Sr	88	94	101	4	4.0	0.000003	-0.0033	ug/L
Y	89	67	57	9	16.4	-0.000003	0.0119	ug/L
Mo	98	144	53	13	24.6	-0.000029	-0.0109	ug/L
Ag	107	37	32	3	9.4	-0.000001	0.0014	ug/L
Ag	109	38	31	5	15.1	-0.000002	0.0004	ug/L
Cd	111	24	18	3	14.7	-0.000002	-0.0014	ug/L
Cd	114	20	2	18	1159.7	-0.000006	-0.0048	ug/L

>	In	115	3160654	3087016	109976	3.6	3087016.409891		ug/L
	Sn	120	17270	17423	886	5.1	0.000179	-0.0520	ug/L
	Sb	121	224	75	18	23.8	-0.000047	0.2740	ug/L
	Cs	133	20	20	2	10.6	-0.000000	-0.0014	ug/L
	Ba	138	86	167	10	5.7	0.000027	0.0020	ug/L
	Ce	140	36	42	11	25.7	0.000002	0.0005	ug/L
>	Tm	169	2730830	2706583	70451	2.6	2706582.942977		ug/L
	Tl	205	25	12	3	22.0	-0.000005	-0.0020	ug/L
	Pb	208	143	149	11	7.0	0.000003	-0.0010	ug/L
	Bi	209	261	34	9	28.1	-0.000083	-0.0097	ug/L
	Th	232	199	41	5	11.1	-0.000058	-0.0074	ug/L
	U	238	16	13	4	30.3	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45 102.059
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74 102.107
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115 97.670
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169	99.112
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244J

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:35:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 115

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244J.085

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	37	5	12.1	-0.000003	-0.0012	ug/L
Be	9	33	30	6	18.2	-0.000002	-0.0050	ug/L
B	11	169	100	10	9.5	-0.000055	-0.0858	ug/L
Na	23	6859	11122	136	1.2	0.003317	-1.1757	ug/L
Mg	24	156	187	12	6.2	0.000024	-0.2067	ug/L
Al	27	891	774	22	2.9	-0.000099	-0.0551	ug/L
K	39	409328	421987	2199	0.5	0.007183	1.0187	ug/L
Ca	44	69014	43726	258	0.6	-0.020424	-74.6732	ug/L
Sc	45	1256607	1267661	14044	1.1	1267661.338315		ug/L
Ti	47	283	199	18	9.1	-0.000068	-0.0806	ug/L
Ti	48	-5947	-3689	16	0.4	0.001822	0.2134	ug/L
V	51	5985	3069	58	1.9	-0.002341	-0.2213	ug/L
Cr	52	6084	5565	158	2.8	-0.000450	-0.0511	ug/L
Cr	53	1948	1028	28	2.7	-0.000739	-0.7538	ug/L
Mn	55	361	294	13	4.3	-0.000055	-0.0069	ug/L
Fe	54	51442	38955	874	2.2	-0.010201	-15.2996	ug/L
Fe	57	3551	3552	26	0.7	-0.000024	-0.2960	ug/L
Co	59	37	46	5	10.9	0.000007	-0.0039	ug/L
Ni	60	52	43	12	26.8	-0.000007	-0.0050	ug/L
Ni	62	215	216	6	3.0	-0.000000	-0.0063	ug/L
Cu	65	54	42	2	4.8	-0.000017	-0.0111	ug/L
Cu	63	85	62	10	15.8	-0.000034	-0.0044	ug/L
Zn	66	245	189	11	5.6	-0.000081	0.0033	ug/L
Zn	68	228	164	6	3.7	-0.000093	-0.0125	ug/L
Ge	74	709212	714773	4860	0.7	714773.387581		ug/L
As	75	154	152	55	36.2	-0.000004	0.0338	ug/L
As-1	75	7631	7519	12	0.2	-0.000239	0.0380	ug/L
Se	77	105	80	3	4.0	-0.000008	-0.1786	ug/L
Se	82	-3	-1	32	6155.3	0.000000	0.0244	ug/L
Sr	88	94	109	6	5.6	0.000005	-0.0030	ug/L
Y	89	67	61	2	3.8	-0.000002	0.0124	ug/L
Mo	98	144	58	12	21.4	-0.000027	-0.0101	ug/L
Ag	107	37	26	2	7.7	-0.000003	0.0008	ug/L
Ag	109	38	28	7	23.4	-0.000003	0.0001	ug/L
Cd	111	24	22	3	11.6	-0.000001	-0.0001	ug/L
Cd	114	20	22	23	108.1	0.000001	-0.0016	ug/L

> In	115	3160654	3117415	72795	2.3	3117414.687081		ug/L
Sn	120	17270	17590	336	1.9	0.000179	-0.0522	ug/L
Sb	121	224	68	13	19.2	-0.000049	0.2729	ug/L
Cs	133	20	13	1	9.1	-0.000002	-0.0016	ug/L
Ba	138	86	141	3	2.3	0.000018	0.0009	ug/L
Ce	140	36	31	9	29.6	-0.000001	0.0001	ug/L
> Tm	169	2730830	2712692	31146	1.1	2712692.132300		ug/L
Tl	205	25	14	3	21.1	-0.000004	-0.0019	ug/L
Pb	208	143	150	16	10.8	0.000003	-0.0010	ug/L
Bi	209	261	46	12	25.9	-0.000079	-0.0090	ug/L
Th	232	199	42	5	10.8	-0.000058	-0.0074	ug/L
U	238	16	14	2	15.2	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.880
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.784
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.632
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.336
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244K

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:39:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 116

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244K.086

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	37	7	19.5	-0.000004	-0.0020	ug/L
Be	9	33	22	1	5.2	-0.000009	-0.0267	ug/L
B	11	169	107	10	9.8	-0.000052	-0.0759	ug/L
Na	23	6859	9658	57	0.6	0.002030	-1.4644	ug/L
Mg	24	156	220	9	4.2	0.000047	-0.1992	ug/L
Al	27	891	1018	8	0.7	0.000080	-0.0129	ug/L
K	39	409328	422899	2636	0.6	0.002195	0.4412	ug/L
Ca	44	69014	43661	454	1.0	-0.021063	-77.1585	ug/L
Sc	45	1256607	1289747	15045	1.2	1289746.726545		ug/L
Ti	47	283	209	14	6.5	-0.000063	-0.0737	ug/L
Ti	48	-5947	-3685	38	1.0	0.001875	0.2198	ug/L
V	51	5985	2982	31	1.0	-0.002450	-0.2328	ug/L
Cr	52	6084	5591	100	1.8	-0.000506	-0.0582	ug/L
Cr	53	1948	1024	44	4.3	-0.000756	-0.7723	ug/L
Mn	55	361	289	18	6.1	-0.000063	-0.0076	ug/L
Fe	54	51442	38952	548	1.4	-0.010733	-16.2051	ug/L
Fe	57	3551	3621	120	3.3	-0.000018	-0.2696	ug/L
Co	59	37	37	5	13.5	-0.000001	-0.0048	ug/L
Ni	60	52	55	8	14.0	0.000001	-0.0006	ug/L
Ni	62	215	212	7	3.1	-0.000006	-0.0276	ug/L
Cu	65	54	190	3	1.6	0.000184	0.0415	ug/L
Cu	63	85	333	8	2.4	0.000334	0.0433	ug/L
Zn	66	245	625	12	1.9	0.000508	0.2932	ug/L
Zn	68	228	502	6	1.2	0.000363	0.2874	ug/L
Ge	74	709212	733221	15084	2.1	733220.747291		ug/L
As	75	154	128	48	37.8	-0.000043	0.0206	ug/L
As-1	75	7631	7402	78	1.1	-0.000662	-0.1111	ug/L
Se	77	105	91	4	4.8	-0.000004	-0.1088	ug/L
Se	82	-3	1	24	1622.6	0.000001	0.0343	ug/L
Sr	88	94	114	2	1.8	0.000006	-0.0028	ug/L
Y	89	67	64	4	6.3	-0.000001	0.0127	ug/L
Mo	98	144	46	27	57.2	-0.000031	-0.0121	ug/L
Ag	107	37	30	8	24.7	-0.000002	0.0011	ug/L
Ag	109	38	28	2	5.5	-0.000003	0.0000	ug/L
Cd	111	24	14	5	33.0	-0.000003	-0.0032	ug/L
Cd	114	20	27	6	22.9	0.000002	-0.0008	ug/L

>	In	115	3160654	3160564	97541	3.1	3160563.671742		ug/L
	Sn	120	17270	17580	425	2.4	0.000099	-0.0746	ug/L
	Sb	121	224	79	15	18.9	-0.000046	0.2742	ug/L
	Cs	133	20	16	1	3.7	-0.000001	-0.0015	ug/L
	Ba	138	86	107	14	12.7	0.000007	-0.0005	ug/L
	Ce	140	36	35	7	19.9	-0.000000	0.0002	ug/L
>	Tm	169	2730830	2735298	22040	0.8	2735298.365141		ug/L
	Tl	205	25	13	6	43.9	-0.000004	-0.0019	ug/L
	Pb	208	143	141	5	3.8	-0.000001	-0.0014	ug/L
	Bi	209	261	36	6	15.2	-0.000082	-0.0095	ug/L
	Th	232	199	34	13	38.9	-0.000060	-0.0080	ug/L
	U	238	16	13	5	40.7	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.637
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.385
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.997
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.164
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244L

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:43:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 117

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244L.087

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	35	1	1.7	-0.000006	-0.0038	ug/L
Be	9	33	23	4	17.3	-0.000008	-0.0235	ug/L
B	11	169	135	10	7.1	-0.000029	-0.0117	ug/L
Na	23	6859	15416	165	1.1	0.006627	-0.4327	ug/L
Mg	24	156	192	9	4.5	0.000027	-0.2057	ug/L
Al	27	891	822	14	1.7	-0.000065	-0.0471	ug/L
K	39	409328	421843	2613	0.6	0.004970	0.7626	ug/L
Ca	44	69014	43240	185	0.4	-0.021022	-77.0007	ug/L
Sc	45	1256607	1275598	5430	0.4	1275598.195998		ug/L
Ti	47	283	181	10	5.8	-0.000083	-0.1015	ug/L
Ti	48	-5947	-3241	737	22.7	0.002190	0.2578	ug/L
V	51	5985	2986	37	1.3	-0.002422	-0.2298	ug/L
Cr	52	6084	5792	377	6.5	-0.000302	-0.0321	ug/L
Cr	53	1948	997	73	7.3	-0.000769	-0.7859	ug/L
Mn	55	361	307	9	2.8	-0.000046	-0.0061	ug/L
Fe	54	51442	38474	602	1.6	-0.010776	-16.2782	ug/L
Fe	57	3551	3743	15	0.4	0.000108	0.2983	ug/L
Co	59	37	41	3	6.2	0.000002	-0.0044	ug/L
Ni	60	52	42	4	10.6	-0.000009	-0.0058	ug/L
Ni	62	215	221	19	8.6	0.000002	0.0026	ug/L
Cu	65	54	61	6	9.7	0.000008	-0.0045	ug/L
Cu	63	85	106	7	6.4	0.000027	0.0035	ug/L
Zn	66	245	463	5	1.1	0.000297	0.1890	ug/L
Zn	68	228	379	9	2.2	0.000204	0.1828	ug/L
Ge	74	709212	721624	9387	1.3	721624.157291		ug/L
As	75	154	120	31	25.4	-0.000050	0.0183	ug/L
As-1	75	7631	7402	241	3.3	-0.000499	-0.0537	ug/L
Se	77	105	90	5	5.2	-0.000004	-0.1085	ug/L
Se	82	-3	5	10	207.8	0.000002	0.0526	ug/L
Sr	88	94	115	5	4.4	0.000007	-0.0027	ug/L
Y	89	67	61	10	15.5	-0.000002	0.0125	ug/L
Mo	98	144	47	16	33.4	-0.000031	-0.0118	ug/L
Ag	107	37	32	8	25.5	-0.000002	0.0013	ug/L
Ag	109	38	25	4	16.4	-0.000004	-0.0002	ug/L
Cd	111	24	21	6	29.0	-0.000001	-0.0004	ug/L
Cd	114	20	-1	15	1862.4	-0.000007	-0.0053	ug/L

> In	115	3160654	3111000	44057	1.4	3111000.371710		ug/L
Sn	120	17270	17763	240	1.4	0.000246	-0.0332	ug/L
Sb	121	224	64	12	18.8	-0.000050	0.2725	ug/L
Cs	133	20	12	2	17.8	-0.000003	-0.0017	ug/L
Ba	138	86	120	22	18.6	0.000011	0.0000	ug/L
Ce	140	36	29	7	24.5	-0.000002	0.0000	ug/L
> Tm	169	2730830	2732322	49606	1.8	2732321.902621		ug/L
Tl	205	25	9	2	22.3	-0.000006	-0.0021	ug/L
Pb	208	143	136	13	9.8	-0.000002	-0.0016	ug/L
Bi	209	261	43	12	29.0	-0.000080	-0.0092	ug/L
Th	232	199	35	12	33.0	-0.000060	-0.0079	ug/L
U	238	16	17	4	21.2	0.000000	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.511
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.750
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.429
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.055
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244M
Sample Description:
Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:47:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 118

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244M.088

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	35	1	1.6	-0.000006	-0.0037	ug/L
Be	9	33	26	4	16.8	-0.000006	-0.0177	ug/L
B	11	169	111	12	10.7	-0.000049	-0.0674	ug/L
Na	23	6859	7614	161	2.1	0.000409	-1.8283	ug/L
Mg	24	156	165	7	4.0	0.000003	-0.2134	ug/L
Al	27	891	906	34	3.7	-0.000010	-0.0342	ug/L
K	39	409328	423294	4509	1.1	0.000515	0.2467	ug/L
Ca	44	69014	43204	652	1.5	-0.021609	-79.2816	ug/L
Sc	45	1256607	1297853	35222	2.7	1297852.950733		ug/L
Ti	47	283	201	27	13.4	-0.000070	-0.0834	ug/L
Ti	48	-5947	-3633	63	1.7	0.001931	0.2266	ug/L
V	51	5985	2986	47	1.6	-0.002460	-0.2339	ug/L
Cr	52	6084	5771	104	1.8	-0.000393	-0.0437	ug/L
Cr	53	1948	985	33	3.4	-0.000790	-0.8089	ug/L
Mn	55	361	290	11	3.8	-0.000064	-0.0077	ug/L
Fe	54	51442	39201	1148	2.9	-0.010720	-16.1830	ug/L
Fe	57	3551	3709	112	3.0	0.000033	-0.0403	ug/L
Co	59	37	32	5	14.2	-0.000005	-0.0053	ug/L
Ni	60	52	35	5	14.2	-0.000014	-0.0086	ug/L
Ni	62	215	225	7	3.0	0.000003	0.0043	ug/L
Cu	65	54	51	3	6.0	-0.000005	-0.0081	ug/L
Cu	63	85	94	5	5.5	0.000008	0.0011	ug/L
Zn	66	245	280	8	2.9	0.000038	0.0619	ug/L
Zn	68	228	236	13	5.5	0.000001	0.0494	ug/L
Ge	74	709212	729493	6463	0.9	729493.164017		ug/L
As	75	154	100	31	30.7	-0.000079	0.0086	ug/L
As-1	75	7631	7381	51	0.7	-0.000641	-0.1038	ug/L
Se	77	105	88	14	15.4	-0.000005	-0.1146	ug/L
Se	82	-3	-5	15	282.2	-0.000001	0.0051	ug/L
Sr	88	94	115	20	17.5	0.000007	-0.0027	ug/L
Y	89	67	60	1	1.0	-0.000002	0.0123	ug/L
Mo	98	144	45	20	43.5	-0.000031	-0.0121	ug/L
Ag	107	37	24	9	38.2	-0.000004	0.0006	ug/L
Ag	109	38	28	6	20.7	-0.000003	0.0001	ug/L
Cd	111	24	16	5	30.2	-0.000003	-0.0024	ug/L
Cd	114	20	-5	25	538.6	-0.000008	-0.0060	ug/L

>	In	115	3160654	3082706	99456	3.2	3082706.022772		ug/L
	Sn	120	17270	18046	344	1.9	0.000395	0.0086	ug/L
	Sb	121	224	64	25	38.5	-0.000050	0.2725	ug/L
	Cs	133	20	15	6	37.6	-0.000002	-0.0016	ug/L
	Ba	138	86	136	3	2.1	0.000017	0.0008	ug/L
	Ce	140	36	32	4	11.7	-0.000001	0.0002	ug/L
>	Tm	169	2730830	2722857	14638	0.5	2722856.751806		ug/L
	Tl	205	25	18	4	20.0	-0.000003	-0.0016	ug/L
	Pb	208	143	150	6	4.1	0.000003	-0.0010	ug/L
	Bi	209	261	34	8	22.5	-0.000083	-0.0097	ug/L
	Th	232	199	32	3	9.9	-0.000061	-0.0081	ug/L
	U	238	16	14	3	17.6	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.282
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.860
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.534
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.708
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244N

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:51:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 119

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244N.089

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	35	10	26.9	-0.000005	-0.0035	ug/L
Be	9	33	30	9	30.0	-0.000003	-0.0066	ug/L
B	11	169	105	10	9.2	-0.000053	-0.0787	ug/L
Na	23	6859	136441	604	0.4	0.100703	20.6838	ug/L
Mg	24	156	125	10	7.6	-0.000027	-0.2233	ug/L
Al	27	891	720	14	2.0	-0.000149	-0.0669	ug/L
K	39	409328	425577	585	0.1	0.005376	0.8095	ug/L
Ca	44	69014	42920	607	1.4	-0.021523	-78.9480	ug/L
Sc	45	1256607	1285456	19250	1.5	1285456.162566		ug/L
Ti	47	283	181	13	7.2	-0.000084	-0.1030	ug/L
Ti	48	-5947	-3609	65	1.8	0.001924	0.2257	ug/L
V	51	5985	2872	51	1.8	-0.002528	-0.2409	ug/L
Cr	52	6084	5724	88	1.5	-0.000388	-0.0431	ug/L
Cr	53	1948	985	37	3.7	-0.000783	-0.8019	ug/L
Mn	55	361	285	2	0.7	-0.000066	-0.0078	ug/L
Fe	54	51442	39294	1310	3.3	-0.010354	-15.5593	ug/L
Fe	57	3551	3804	126	3.3	0.000133	0.4095	ug/L
Co	59	37	37	10	26.9	-0.000001	-0.0048	ug/L
Ni	60	52	39	2	5.1	-0.000011	-0.0071	ug/L
Ni	62	215	233	11	4.9	0.000010	0.0311	ug/L
Cu	65	54	39	7	16.8	-0.000022	-0.0123	ug/L
Cu	63	85	72	7	9.3	-0.000021	-0.0027	ug/L
Zn	66	245	181	13	7.0	-0.000094	-0.0032	ug/L
Zn	68	228	167	12	7.0	-0.000091	-0.0114	ug/L
Ge	74	709212	722273	10415	1.4	722273.360991		ug/L
As	75	154	77	21	27.4	-0.000109	-0.0015	ug/L
As-1	75	7631	7337	84	1.2	-0.000601	-0.0895	ug/L
Se	77	105	87	10	11.0	-0.000006	-0.1374	ug/L
Se	82	-3	-17	6	33.5	-0.000005	-0.0526	ug/L
Sr	88	94	85	12	14.1	-0.000003	-0.0040	ug/L
Y	89	67	62	7	11.3	-0.000002	0.0124	ug/L
Mo	98	144	49	20	41.5	-0.000030	-0.0117	ug/L
Ag	107	37	32	5	14.6	-0.000002	0.0012	ug/L
Ag	109	38	27	5	18.0	-0.000003	-0.0000	ug/L
Cd	111	24	17	2	8.8	-0.000002	-0.0019	ug/L
Cd	114	20	10	6	60.7	-0.000003	-0.0035	ug/L

>	In	115	3160654	3169344	55374	1.7	3169344.393742		ug/L
	Sn	120	17270	18016	1099	6.1	0.000218	-0.0411	ug/L
	Sb	121	224	72	21	29.5	-0.000048	0.2733	ug/L
	Cs	133	20	17	3	17.6	-0.000001	-0.0015	ug/L
	Ba	138	86	127	3	2.1	0.000013	0.0003	ug/L
	Ce	140	36	34	2	6.2	-0.000001	0.0002	ug/L
>	Tm	169	2730830	2760368	61797	2.2	2760367.620718		ug/L
	Tl	205	25	12	4	34.6	-0.000005	-0.0020	ug/L
	Pb	208	143	148	8	5.5	0.000001	-0.0012	ug/L
	Bi	209	261	38	10	27.3	-0.000082	-0.0095	ug/L
	Th	232	199	27	11	41.5	-0.000063	-0.0085	ug/L
	U	238	16	14	4	31.1	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.296
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.842
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.275
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.082
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-2440

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:55:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 120

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-2440.090

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	31	5	15.4	-0.000009	-0.0081	ug/L
Be	9	33	26	7	25.9	-0.000006	-0.0192	ug/L
B	11	169	115	12	10.5	-0.000047	-0.0612	ug/L
Na	23	6859	5844	178	3.0	-0.000982	-2.1407	ug/L
Mg	24	156	133	17	12.9	-0.000022	-0.2218	ug/L
Al	27	891	759	24	3.1	-0.000128	-0.0619	ug/L
K	39	409328	427002	2036	0.5	0.001298	0.3373	ug/L
Ca	44	69014	42733	234	0.5	-0.022191	-81.5455	ug/L
Sc	45	1256607	1305989	24927	1.9	1305988.658007		ug/L
Ti	47	283	201	7	3.5	-0.000071	-0.0851	ug/L
Ti	48	-5947	-3615	25	0.7	0.001964	0.2305	ug/L
V	51	5985	2939	9	0.3	-0.002512	-0.2393	ug/L
Cr	52	6084	5820	144	2.5	-0.000383	-0.0425	ug/L
Cr	53	1948	934	37	3.9	-0.000834	-0.8571	ug/L
Mn	55	361	299	23	7.7	-0.000058	-0.0072	ug/L
Fe	54	51442	39070	677	1.7	-0.011007	-16.6711	ug/L
Fe	57	3551	3794	118	3.1	0.000080	0.1713	ug/L
Co	59	37	36	3	9.0	-0.000002	-0.0050	ug/L
Ni	60	52	45	1	2.6	-0.000007	-0.0048	ug/L
Ni	62	215	246	10	3.9	0.000018	0.0568	ug/L
Cu	65	54	34	6	18.4	-0.000030	-0.0144	ug/L
Cu	63	85	65	3	4.6	-0.000033	-0.0042	ug/L
Zn	66	245	270	28	10.4	0.000020	0.0527	ug/L
Zn	68	228	234	11	4.5	-0.000006	0.0448	ug/L
Ge	74	709212	740909	16509	2.2	740909.038742		ug/L
As	75	154	129	52	40.3	-0.000042	0.0211	ug/L
As-1	75	7631	7410	58	0.8	-0.000754	-0.1435	ug/L
Se	77	105	84	7	7.9	-0.000006	-0.1533	ug/L
Se	82	-3	1	23	4515.6	0.000001	0.0326	ug/L
Sr	88	94	96	5	4.7	0.000000	-0.0035	ug/L
Y	89	67	60	2	2.9	-0.000002	0.0122	ug/L
Mo	98	144	46	13	28.8	-0.000031	-0.0122	ug/L
Ag	107	37	23	6	24.2	-0.000005	0.0005	ug/L
Ag	109	38	28	7	24.0	-0.000003	0.0001	ug/L
Cd	111	24	23	5	21.7	-0.000000	0.0003	ug/L
Cd	114	20	-11	14	133.5	-0.000010	-0.0069	ug/L

>	In	115	3160654	3159247	74373	2.4	3159247.178626		ug/L
	Sn	120	17270	17671	291	1.6	0.000132	-0.0653	ug/L
	Sb	121	224	67	7	9.7	-0.000050	0.2728	ug/L
	Cs	133	20	13	3	20.4	-0.000002	-0.0016	ug/L
	Ba	138	86	102	5	5.2	0.000005	-0.0007	ug/L
	Ce	140	36	34	10	28.0	-0.000000	0.0002	ug/L
>	Tm	169	2730830	2801145	31967	1.1	2801145.157246		ug/L
	Tl	205	25	17	4	21.8	-0.000003	-0.0017	ug/L
	Pb	208	143	138	11	8.0	-0.000003	-0.0017	ug/L
	Bi	209	261	32	10	29.7	-0.000084	-0.0098	ug/L
	Th	232	199	37	4	11.0	-0.000060	-0.0078	ug/L
	U	238	16	15	1	7.5	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.930
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.469
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.955
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	102.575
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-244P

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 17:58:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 121

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-244P.091

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	33	8	23.2	-0.000008	-0.0061	ug/L
Be	9	33	29	6	19.8	-0.000004	-0.0113	ug/L
B	11	169	161	11	7.0	-0.000011	0.0392	ug/L
Na	23	6859	149764	1549	1.0	0.109276	22.6082	ug/L
Mg	24	156	384	26	6.8	0.000170	-0.1585	ug/L
Al	27	891	1405	64	4.5	0.000367	0.0547	ug/L
K	39	409328	432962	1493	0.3	0.005957	0.8768	ug/L
Ca	44	69014	43188	341	0.8	-0.021832	-80.1500	ug/L
Sc	45	1256607	1305758	31585	2.4	1305757.937345		ug/L
Ti	47	283	211	37	17.4	-0.000063	-0.0732	ug/L
Ti	48	-5947	-3557	43	1.2	0.002007	0.2358	ug/L
V	51	5985	2856	98	3.4	-0.002574	-0.2458	ug/L
Cr	52	6084	5688	151	2.7	-0.000485	-0.0555	ug/L
Cr	53	1948	957	26	2.7	-0.000816	-0.8375	ug/L
Mn	55	361	362	9	2.4	-0.000010	-0.0028	ug/L
Fe	54	51442	40121	974	2.4	-0.010202	-15.2997	ug/L
Fe	57	3551	3933	136	3.5	0.000186	0.6460	ug/L
Co	59	37	40	10	24.9	0.000001	-0.0046	ug/L
Ni	60	52	55	6	10.2	0.000001	-0.0009	ug/L
Ni	62	215	242	32	13.2	0.000014	0.0440	ug/L
Cu	65	54	443	29	6.5	0.000522	0.1300	ug/L
Cu	63	85	891	7	0.8	0.001083	0.1403	ug/L
Zn	66	245	842	26	3.0	0.000792	0.4327	ug/L
Zn	68	228	681	26	3.8	0.000597	0.4417	ug/L
Ge	74	709212	740534	3260	0.4	740533.509229		ug/L
As	75	154	115	56	48.5	-0.000061	0.0147	ug/L
As-1	75	7631	7458	96	1.3	-0.000688	-0.1202	ug/L
Se	77	105	88	11	12.6	-0.000005	-0.1234	ug/L
Se	82	-3	5	9	167.8	0.000002	0.0542	ug/L
Sr	88	94	281	10	3.6	0.000060	0.0037	ug/L
Y	89	67	65	2	2.4	-0.000001	0.0130	ug/L
Mo	98	144	45	16	35.6	-0.000031	-0.0123	ug/L
Ag	107	37	29	3	9.1	-0.000003	0.0010	ug/L
Ag	109	38	27	4	13.4	-0.000003	-0.0000	ug/L
Cd	111	24	15	2	13.6	-0.000003	-0.0025	ug/L
Cd	114	20	30	8	26.3	0.000003	-0.0002	ug/L

> In	115	3160654	3124272	77796	2.5	3124271.934714		ug/L
Sn	120	17270	17272	770	4.5	0.000063	-0.0848	ug/L
Sb	121	224	77	17	21.5	-0.000046	0.2740	ug/L
Cs	133	20	14	4	29.6	-0.000002	-0.0016	ug/L
Ba	138	86	2097	7	0.4	0.000644	0.0789	ug/L
Ce	140	36	34	6	17.9	-0.000000	0.0002	ug/L
> Tm	169	2730830	2775990	19089	0.7	2775990.328371		ug/L
Tl	205	25	14	1	4.0	-0.000004	-0.0019	ug/L
Pb	208	143	223	11	4.9	0.000028	0.0018	ug/L
Bi	209	261	37	6	15.0	-0.000082	-0.0096	ug/L
Th	232	199	29	10	36.0	-0.000062	-0.0083	ug/L
U	238	16	17	3	15.1	0.000000	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.911
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.416
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.849
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.654
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-235DIW

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:14:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 122

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-235DIW.092

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	34	9	27.6	-0.000006	-0.0043	ug/L
Be	9	33	25	9	33.6	-0.000006	-0.0173	ug/L
B	11	169	114	11	9.4	-0.000044	-0.0545	ug/L
Na	23	6859	5657	138	2.4	-0.000963	-2.1364	ug/L
Mg	24	156	394	19	4.8	0.000189	-0.1522	ug/L
Al	27	891	894	10	1.1	0.000001	-0.0316	ug/L
K	39	409328	416599	479	0.1	0.005290	0.7995	ug/L
Ca	44	69014	45706	1105	2.4	-0.018599	-67.5717	ug/L
Sc	45	1256607	1258554	11586	0.9	1258554.288285		ug/L
Ti	47	283	218	7	3.1	-0.000052	-0.0583	ug/L
Ti	48	-5947	-3872	119	3.1	0.001655	0.1933	ug/L
V	51	5985	3168	150	4.7	-0.002245	-0.2111	ug/L
Cr	52	6084	5595	359	6.4	-0.000397	-0.0442	ug/L
Cr	53	1948	1040	52	5.0	-0.000724	-0.7373	ug/L
Mn	55	361	309	14	4.5	-0.000041	-0.0057	ug/L
Fe	54	51442	38824	178	0.5	-0.010088	-15.1059	ug/L
Fe	57	3551	3713	13	0.3	0.000124	0.3696	ug/L
Co	59	37	35	7	18.8	-0.000002	-0.0049	ug/L
Ni	60	52	43	6	14.7	-0.000007	-0.0049	ug/L
Ni	62	215	221	7	3.1	0.000005	0.0119	ug/L
Cu	65	54	37	6	16.9	-0.000025	-0.0131	ug/L
Cu	63	85	70	3	4.3	-0.000023	-0.0030	ug/L
Zn	66	245	185	14	7.5	-0.000090	-0.0014	ug/L
Zn	68	228	165	11	6.5	-0.000095	-0.0139	ug/L
Ge	74	709212	725987	14226	2.0	725986.929586		ug/L
As	75	154	97	44	45.7	-0.000083	0.0075	ug/L
As-1	75	7631	7284	136	1.9	-0.000721	-0.1320	ug/L
Se	77	105	92	8	8.7	-0.000003	-0.0884	ug/L
Se	82	-3	1	5	370.8	0.000001	0.0351	ug/L
Sr	88	94	90	13	14.1	-0.000001	-0.0037	ug/L
Y	89	67	55	6	10.9	-0.000003	0.0117	ug/L
Mo	98	144	81	41	50.1	-0.000020	-0.0063	ug/L
Ag	107	37	33	11	32.4	-0.000001	0.0014	ug/L
Ag	109	38	35	1	2.9	-0.000001	0.0008	ug/L
Cd	111	24	19	6	29.3	-0.000001	-0.0010	ug/L
Cd	114	20	3	9	264.1	-0.000005	-0.0046	ug/L

> In	115	3160654	3097151	91226	2.9	3097150.536029		ug/L
Sn	120	17270	17655	586	3.3	0.000236	-0.0361	ug/L
Sb	121	224	89	23	25.8	-0.000042	0.2756	ug/L
Cs	133	20	19	1	6.0	-0.000000	-0.0014	ug/L
Ba	138	86	104	3	2.9	0.000007	-0.0005	ug/L
Ce	140	36	27	6	23.5	-0.000002	0.0000	ug/L
> Tm	169	2730830	2722797	71059	2.6	2722797.222556		ug/L
Tl	205	25	16	5	32.1	-0.000003	-0.0018	ug/L
Pb	208	143	143	11	7.3	0.000000	-0.0013	ug/L
Bi	209	261	115	43	37.7	-0.000054	-0.0055	ug/L
Th	232	199	67	19	27.5	-0.000048	-0.0055	ug/L
U	238	16	13	4	27.7	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.155
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.365
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.991
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.706
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-235
Sample Description:
Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:18:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 123

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-235.093

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	33	5	15.7	-0.000008	-0.0058	ug/L
Be	9	33	23	6	25.9	-0.000009	-0.0265	ug/L
B	11	169	118	10	8.5	-0.000044	-0.0531	ug/L
Na	23	6859	6849	239	3.5	-0.000206	-1.9664	ug/L
Mg	24	156	80077	1250	1.6	0.061306	19.9691	ug/L
Al	27	891	935	22	2.3	0.000008	-0.0298	ug/L
K	39	409328	420986	2322	0.6	-0.002728	-0.1288	ug/L
Ca	44	69014	43712	842	1.9	-0.021393	-78.4407	ug/L
Sc	45	1256607	1303800	29469	2.3	1303799.843339		ug/L
Ti	47	283	193	8	4.0	-0.000077	-0.0928	ug/L
Ti	48	-5947	-3676	76	2.1	0.001913	0.2244	ug/L
V	51	5985	2969	48	1.6	-0.002485	-0.2364	ug/L
Cr	52	6084	5469	171	3.1	-0.000647	-0.0761	ug/L
Cr	53	1948	977	70	7.2	-0.000801	-0.8212	ug/L
Mn	55	361	300	8	2.5	-0.000057	-0.0071	ug/L
Fe	54	51442	38294	687	1.8	-0.011564	-17.6194	ug/L
Fe	57	3551	3677	15	0.4	-0.000005	-0.2078	ug/L
Co	59	37	39	5	12.8	0.000000	-0.0047	ug/L
Ni	60	52	53	10	18.4	-0.000001	-0.0017	ug/L
Ni	62	215	215	14	6.6	-0.000007	-0.0278	ug/L
Cu	65	54	39	8	19.4	-0.000023	-0.0127	ug/L
Cu	63	85	68	7	9.5	-0.000028	-0.0036	ug/L
Zn	66	245	207	3	1.3	-0.000065	0.0110	ug/L
Zn	68	228	186	24	12.9	-0.000071	0.0018	ug/L
Ge	74	709212	740026	18933	2.6	740026.161155		ug/L
As	75	154	58	16	28.1	-0.000137	-0.0108	ug/L
As-1	75	7631	7391	14	0.2	-0.000767	-0.1482	ug/L
Se	77	105	88	5	5.7	-0.000006	-0.1348	ug/L
Se	82	-3	-8	11	144.9	-0.000002	-0.0076	ug/L
Sr	88	94	126	10	7.6	0.000010	-0.0024	ug/L
Y	89	67	61	5	7.7	-0.000002	0.0123	ug/L
Mo	98	144	62	16	26.3	-0.000026	-0.0096	ug/L
Ag	107	37	23	2	9.2	-0.000005	0.0004	ug/L
Ag	109	38	30	1	1.9	-0.000003	0.0002	ug/L
Cd	111	24	19	8	40.2	-0.000002	-0.0012	ug/L
Cd	114	20	-16	8	53.8	-0.000011	-0.0076	ug/L

> In	115	3160654	3188255	56501	1.8	3188255.140655		ug/L
Sn	120	17270	17952	236	1.3	0.000167	-0.0555	ug/L
Sb	121	224	61	12	18.9	-0.000052	0.2719	ug/L
Cs	133	20	17	5	29.6	-0.000001	-0.0015	ug/L
Ba	138	86	274	11	4.0	0.000059	0.0060	ug/L
Ce	140	36	30	3	10.8	-0.000002	0.0000	ug/L
> Tm	169	2730830	2753938	59511	2.2	2753938.461674		ug/L
Tl	205	25	16	1	6.3	-0.000003	-0.0018	ug/L
Pb	208	143	136	12	8.5	-0.000003	-0.0017	ug/L
Bi	209	261	36	2	4.2	-0.000082	-0.0096	ug/L
Th	232	199	46	4	7.8	-0.000056	-0.0071	ug/L
U	238	16	17	3	20.4	0.000000	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.756
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.345
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.873
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.846
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-240DIW

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:22:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 124

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-240DIW.094

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	32	8	25.0	-0.000008	-0.0060	ug/L
Be	9	33	27	2	7.6	-0.000004	-0.0125	ug/L
B	11	169	110	3	2.4	-0.000047	-0.0632	ug/L
Na	23	6859	12884	411	3.2	0.004753	-0.8533	ug/L
Mg	24	156	242	14	5.8	0.000067	-0.1923	ug/L
Al	27	891	1270	77	6.1	0.000296	0.0378	ug/L
K	39	409328	422145	4805	1.1	0.008923	1.2202	ug/L
Ca	44	69014	42687	656	1.5	-0.021086	-77.2488	ug/L
Sc	45	1256607	1262848	55722	4.4	1262848.469943		ug/L
Ti	47	283	183	10	5.7	-0.000080	-0.0973	ug/L
Ti	48	-5947	-3595	66	1.8	0.001883	0.2208	ug/L
V	51	5985	2868	50	1.7	-0.002489	-0.2368	ug/L
Cr	52	6084	5717	103	1.8	-0.000310	-0.0331	ug/L
Cr	53	1948	937	16	1.7	-0.000807	-0.8273	ug/L
Mn	55	361	285	14	4.8	-0.000061	-0.0074	ug/L
Fe	54	51442	37677	815	2.2	-0.011073	-16.7832	ug/L
Fe	57	3551	3772	41	1.1	0.000164	0.5478	ug/L
Co	59	37	33	3	8.8	-0.000004	-0.0051	ug/L
Ni	60	52	45	7	16.6	-0.000006	-0.0042	ug/L
Ni	62	215	216	6	3.0	0.000001	-0.0028	ug/L
Cu	65	54	38	4	9.5	-0.000024	-0.0129	ug/L
Cu	63	85	70	3	4.6	-0.000025	-0.0032	ug/L
Zn	66	245	575	32	5.5	0.000444	0.2616	ug/L
Zn	68	228	455	17	3.6	0.000303	0.2477	ug/L
Ge	74	709212	729719	27034	3.7	729718.733292		ug/L
As	75	154	119	79	66.5	-0.000054	0.0169	ug/L
As-1	75	7631	7384	126	1.7	-0.000634	-0.1012	ug/L
Se	77	105	85	15	17.8	-0.000005	-0.1298	ug/L
Se	82	-3	2	11	524.1	0.000001	0.0391	ug/L
Sr	88	94	98	8	8.6	0.000002	-0.0034	ug/L
Y	89	67	70	10	14.9	0.000001	0.0139	ug/L
Mo	98	144	43	11	26.2	-0.000032	-0.0124	ug/L
Ag	107	37	29	3	10.1	-0.000002	0.0011	ug/L
Ag	109	38	27	9	31.6	-0.000003	-0.0000	ug/L
Cd	111	24	21	2	9.8	-0.000001	-0.0001	ug/L
Cd	114	20	-4	31	783.3	-0.000007	-0.0057	ug/L

> In	115	3160654	3079868	95719	3.1	3079867.975307		ug/L
Sn	120	17270	16994	546	3.2	0.000054	-0.0874	ug/L
Sb	121	224	63	16	25.1	-0.000050	0.2725	ug/L
Cs	133	20	19	4	21.5	-0.000000	-0.0014	ug/L
Ba	138	86	164	13	7.7	0.000026	0.0019	ug/L
Ce	140	36	27	6	21.4	-0.000002	0.0000	ug/L
> Tm	169	2730830	2687660	156780	5.8	2687660.082504		ug/L
Tl	205	25	11	2	21.7	-0.000005	-0.0020	ug/L
Pb	208	143	146	10	6.5	0.000002	-0.0011	ug/L
Bi	209	261	34	6	17.4	-0.000083	-0.0096	ug/L
Th	232	199	36	10	27.4	-0.000059	-0.0077	ug/L
U	238	16	13	3	22.9	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.497
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.891
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.444
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	98.419
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-240

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:26:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 125

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-240.095

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	34	12	33.9	-0.000007	-0.0050	ug/L
Be	9	33	28	3	9.1	-0.000005	-0.0135	ug/L
B	11	169	111	13	12.0	-0.000049	-0.0669	ug/L
Na	23	6859	10553	421	4.0	0.002677	-1.3193	ug/L
Mg	24	156	1998	81	4.1	0.001416	0.2518	ug/L
Al	27	891	1005	14	1.4	0.000066	-0.0163	ug/L
K	39	409328	423896	3209	0.8	0.001070	0.3110	ug/L
Ca	44	69014	44105	537	1.2	-0.020916	-76.5873	ug/L
Sc	45	1256607	1297253	23235	1.8	1297252.675407		ug/L
Ti	47	283	187	9	4.8	-0.000080	-0.0978	ug/L
Ti	48	-5947	-3569	56	1.6	0.001981	0.2326	ug/L
V	51	5985	2807	69	2.4	-0.002599	-0.2484	ug/L
Cr	52	6084	5643	218	3.9	-0.000492	-0.0564	ug/L
Cr	53	1948	923	23	2.5	-0.000838	-0.8610	ug/L
Mn	55	361	496	12	2.3	0.000095	0.0067	ug/L
Fe	54	51442	39688	599	1.5	-0.010340	-15.5354	ug/L
Fe	57	3551	3739	100	2.7	0.000057	0.0696	ug/L
Co	59	37	36	2	5.6	-0.000002	-0.0049	ug/L
Ni	60	52	50	9	17.2	-0.000003	-0.0027	ug/L
Ni	62	215	232	7	3.1	0.000008	0.0236	ug/L
Cu	65	54	58	12	20.0	0.000003	-0.0058	ug/L
Cu	63	85	91	7	7.3	0.000004	0.0005	ug/L
Zn	66	245	2356	54	2.3	0.002873	1.4572	ug/L
Zn	68	228	1780	19	1.1	0.002111	1.4376	ug/L
Ge	74	709212	732004	11689	1.6	732003.869929		ug/L
As	75	154	83	58	70.2	-0.000104	0.0004	ug/L
As-1	75	7631	7351	21	0.3	-0.000715	-0.1298	ug/L
Se	77	105	92	8	8.2	-0.000004	-0.0916	ug/L
Se	82	-3	-3	21	659.6	-0.000000	0.0148	ug/L
Sr	88	94	1112	39	3.5	0.000329	0.0365	ug/L
Y	89	67	64	24	36.7	-0.000001	0.0130	ug/L
Mo	98	144	44	15	33.6	-0.000032	-0.0123	ug/L
Ag	107	37	25	4	16.0	-0.000004	0.0007	ug/L
Ag	109	38	32	8	24.8	-0.000002	0.0005	ug/L
Cd	111	24	17	2	8.8	-0.000002	-0.0017	ug/L
Cd	114	20	39	19	49.2	0.000006	0.0011	ug/L

> In	115	3160654	3098209	48854	1.6	3098208.651992		ug/L
Sn	120	17270	17034	350	2.1	0.000034	-0.0930	ug/L
Sb	121	224	64	17	27.2	-0.000050	0.2725	ug/L
Cs	133	20	22	5	20.2	0.000001	-0.0013	ug/L
Ba	138	86	12547	49	0.4	0.004023	0.4996	ug/L
Ce	140	36	37	10	27.4	0.000001	0.0003	ug/L
> Tm	169	2730830	2772672	38843	1.4	2772671.572661		ug/L
Tl	205	25	15	7	49.3	-0.000004	-0.0018	ug/L
Pb	208	143	155	8	4.9	0.000003	-0.0009	ug/L
Bi	209	261	36	10	26.4	-0.000082	-0.0096	ug/L
Th	232	199	36	7	19.9	-0.000060	-0.0079	ug/L
U	238	16	16	5	32.1	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.235
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.214
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.024
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.532
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248DIW

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:30:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 126

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248DIW.096

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	35	5	12.8	-0.000006	-0.0038	ug/L
Be	9	33	24	3	11.0	-0.000008	-0.0231	ug/L
B	11	169	96	8	8.5	-0.000061	-0.1019	ug/L
Na	23	6859	10522	229	2.2	0.002622	-1.3317	ug/L
Mg	24	156	181	12	6.4	0.000015	-0.2095	ug/L
Al	27	891	1104	44	4.0	0.000138	0.0008	ug/L
K	39	409328	423629	2776	0.7	-0.000376	0.1436	ug/L
Ca	44	69014	41983	520	1.2	-0.022673	-83.4210	ug/L
Sc	45	1256607	1302525	30028	2.3	1302525.381635		ug/L
Ti	47	283	183	14	7.7	-0.000085	-0.1035	ug/L
Ti	48	-5947	-3537	55	1.5	0.002015	0.2367	ug/L
V	51	5985	2783	51	1.8	-0.002625	-0.2511	ug/L
Cr	52	6084	5824	69	1.2	-0.000369	-0.0407	ug/L
Cr	53	1948	919	26	2.8	-0.000845	-0.8681	ug/L
Mn	55	361	302	13	4.4	-0.000055	-0.0069	ug/L
Fe	54	51442	38618	170	0.4	-0.011277	-17.1313	ug/L
Fe	57	3551	3756	92	2.5	0.000059	0.0785	ug/L
Co	59	37	33	2	7.1	-0.000004	-0.0052	ug/L
Ni	60	52	48	4	7.5	-0.000005	-0.0037	ug/L
Ni	62	215	219	9	4.2	-0.000003	-0.0144	ug/L
Cu	65	54	41	6	13.8	-0.000019	-0.0117	ug/L
Cu	63	85	63	14	23.1	-0.000035	-0.0045	ug/L
Zn	66	245	215	17	8.0	-0.000052	0.0173	ug/L
Zn	68	228	173	6	3.7	-0.000086	-0.0080	ug/L
Ge	74	709212	732359	18141	2.5	732359.033304		ug/L
As	75	154	84	83	97.7	-0.000099	0.0018	ug/L
As-1	75	7631	7412	75	1.0	-0.000633	-0.1009	ug/L
Se	77	105	92	12	13.0	-0.000004	-0.1074	ug/L
Se	82	-3	-4	11	259.3	-0.000000	0.0106	ug/L
Sr	88	94	98	13	13.2	0.000001	-0.0035	ug/L
Y	89	67	70	3	4.9	0.000001	0.0136	ug/L
Mo	98	144	49	11	22.7	-0.000030	-0.0117	ug/L
Ag	107	37	30	6	18.2	-0.000002	0.0011	ug/L
Ag	109	38	26	3	9.6	-0.000004	-0.0001	ug/L
Cd	111	24	23	6	28.4	-0.000000	0.0001	ug/L
Cd	114	20	2	23	1226.2	-0.000006	-0.0049	ug/L

> In	115	3160654	3172880	88915	2.8	3172879.649400		ug/L
Sn	120	17270	17173	168	1.0	-0.000049	-0.1164	ug/L
Sb	121	224	65	7	11.4	-0.000051	0.2724	ug/L
Cs	133	20	16	4	25.8	-0.000001	-0.0015	ug/L
Ba	138	86	131	5	3.6	0.000014	0.0004	ug/L
Ce	140	36	33	2	6.2	-0.000001	0.0002	ug/L
> Tm	169	2730830	2741393	84792	3.1	2741392.672151		ug/L
Tl	205	25	13	1	4.3	-0.000004	-0.0019	ug/L
Pb	208	143	151	5	3.1	0.000003	-0.0010	ug/L
Bi	209	261	25	3	10.2	-0.000087	-0.0102	ug/L
Th	232	199	35	8	22.9	-0.000060	-0.0079	ug/L
U	238	16	14	5	32.7	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.654
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.264
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.387
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.387
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248A

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:34:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248A .097

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	34	4	12.0	-0.000007	-0.0048	ug/L
Be	9	33	25	8	30.2	-0.000006	-0.0193	ug/L
B	11	169	104	3	3.1	-0.000053	-0.0790	ug/L
Na	23	6859	5887	134	2.3	-0.000856	-2.1122	ug/L
Mg	24	156	129	19	14.6	-0.000023	-0.2221	ug/L
Al	27	891	924	21	2.3	0.000013	-0.0287	ug/L
K	39	409328	422766	2898	0.7	0.004835	0.7469	ug/L
Ca	44	69014	41476	410	1.0	-0.022490	-82.7112	ug/L
Sc	45	1256607	1279064	21303	1.7	1279064.012908		ug/L
Ti	47	283	197	23	11.6	-0.000071	-0.0845	ug/L
Ti	48	-5947	-3505	35	1.0	0.001992	0.2339	ug/L
V	51	5985	2724	91	3.3	-0.002633	-0.2520	ug/L
Cr	52	6084	5567	348	6.3	-0.000485	-0.0555	ug/L
Cr	53	1948	917	31	3.4	-0.000833	-0.8552	ug/L
Mn	55	361	266	13	4.8	-0.000079	-0.0091	ug/L
Fe	54	51442	37447	516	1.4	-0.011659	-17.7819	ug/L
Fe	57	3551	3764	42	1.1	0.000118	0.3411	ug/L
Co	59	37	31	12	38.2	-0.000005	-0.0054	ug/L
Ni	60	52	40	4	8.8	-0.000010	-0.0065	ug/L
Ni	62	215	231	13	5.8	0.000009	0.0273	ug/L
Cu	65	54	35	7	20.0	-0.000028	-0.0139	ug/L
Cu	63	85	55	8	13.7	-0.000045	-0.0058	ug/L
Zn	66	245	174	7	3.9	-0.000107	-0.0098	ug/L
Zn	68	228	145	12	8.4	-0.000124	-0.0332	ug/L
Ge	74	709212	733432	13036	1.8	733432.134063		ug/L
As	75	154	96	9	9.3	-0.000085	0.0065	ug/L
As-1	75	7631	7401	67	0.9	-0.000667	-0.1128	ug/L
Se	77	105	90	10	11.4	-0.000004	-0.1047	ug/L
Se	82	-3	3	12	465.0	0.000002	0.0414	ug/L
Sr	88	94	90	4	4.8	-0.000001	-0.0037	ug/L
Y	89	67	52	5	9.4	-0.000004	0.0112	ug/L
Mo	98	144	37	8	21.3	-0.000034	-0.0134	ug/L
Ag	107	37	29	6	22.4	-0.000003	0.0010	ug/L
Ag	109	38	24	4	14.8	-0.000004	-0.0003	ug/L
Cd	111	24	16	2	10.8	-0.000002	-0.0022	ug/L
Cd	114	20	15	21	135.3	-0.000001	-0.0026	ug/L

> In	115	3160654	3091040	53568	1.7	3091039.711284		ug/L
Sn	120	17270	17087	585	3.4	0.000063	-0.0848	ug/L
Sb	121	224	50	6	12.8	-0.000055	0.2708	ug/L
Cs	133	20	18	5	25.5	-0.000001	-0.0015	ug/L
Ba	138	86	93	13	13.6	0.000003	-0.0010	ug/L
Ce	140	36	32	3	9.4	-0.000001	0.0002	ug/L
> Tm	169	2730830	2713459	80986	3.0	2713458.571399		ug/L
Tl	205	25	21	2	9.5	-0.000002	-0.0015	ug/L
Pb	208	143	124	2	1.9	-0.000007	-0.0021	ug/L
Bi	209	261	33	4	10.5	-0.000083	-0.0097	ug/L
Th	232	199	36	11	30.0	-0.000060	-0.0078	ug/L
U	238	16	15	1	6.7	-0.000000	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.787
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.415
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.797
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.364
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248B

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:37:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 128

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248B.098

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	39	9	22.8	-0.000003	-0.0012	ug/L
Be	9	33	25	4	17.4	-0.000007	-0.0218	ug/L
B	11	169	103	4	3.4	-0.000057	-0.0908	ug/L
Na	23	6859	10078	146	1.5	0.002136	-1.4406	ug/L
Mg	24	156	124	4	2.9	-0.000030	-0.2245	ug/L
Al	27	891	921	37	4.1	-0.000016	-0.0354	ug/L
K	39	409328	426038	1301	0.3	-0.004664	-0.3529	ug/L
Ca	44	69014	41331	623	1.5	-0.023768	-87.6801	ug/L
Sc	45	1256607	1327234	27425	2.1	1327233.864707		ug/L
Ti	47	283	183	27	14.5	-0.000087	-0.1069	ug/L
Ti	48	-5947	-3491	40	1.1	0.002101	0.2470	ug/L
V	51	5985	2689	70	2.6	-0.002736	-0.2628	ug/L
Cr	52	6084	5585	211	3.8	-0.000631	-0.0742	ug/L
Cr	53	1948	912	22	2.4	-0.000862	-0.8871	ug/L
Mn	55	361	271	9	3.4	-0.000083	-0.0094	ug/L
Fe	54	51442	38106	727	1.9	-0.012222	-18.7395	ug/L
Fe	57	3551	3855	112	2.9	0.000078	0.1648	ug/L
Co	59	37	35	2	6.0	-0.000003	-0.0051	ug/L
Ni	60	52	48	6	12.8	-0.000005	-0.0039	ug/L
Ni	62	215	237	25	10.6	0.000007	0.0204	ug/L
Cu	65	54	35	2	6.0	-0.000029	-0.0143	ug/L
Cu	63	85	52	16	29.6	-0.000050	-0.0065	ug/L
Zn	66	245	181	21	11.3	-0.000102	-0.0072	ug/L
Zn	68	228	168	12	7.2	-0.000096	-0.0148	ug/L
Ge	74	709212	744980	4137	0.6	744980.190502		ug/L
As	75	154	72	54	74.9	-0.000119	-0.0047	ug/L
As-1	75	7631	7466	78	1.0	-0.000738	-0.1378	ug/L
Se	77	105	91	12	13.3	-0.000005	-0.1139	ug/L
Se	82	-3	-2	16	885.4	0.000000	0.0221	ug/L
Sr	88	94	99	14	14.6	0.000001	-0.0034	ug/L
Y	89	67	55	9	15.5	-0.000004	0.0115	ug/L
Mo	98	144	42	24	56.5	-0.000032	-0.0127	ug/L
Ag	107	37	29	2	7.1	-0.000003	0.0010	ug/L
Ag	109	38	23	7	28.7	-0.000005	-0.0004	ug/L
Cd	111	24	19	2	7.9	-0.000001	-0.0011	ug/L
Cd	114	20	5	15	304.7	-0.000005	-0.0044	ug/L

> In	115	3160654	3167765	104646	3.3	3167765.422247		ug/L
Sn	120	17270	19494	591	3.0	0.000690	0.0918	ug/L
Sb	121	224	58	10	17.5	-0.000053	0.2716	ug/L
Cs	133	20	17	3	17.6	-0.000001	-0.0015	ug/L
Ba	138	86	162	7	4.5	0.000024	0.0016	ug/L
Ce	140	36	31	4	11.2	-0.000001	0.0001	ug/L
> Tm	169	2730830	2821779	27584	1.0	2821779.483668		ug/L
Tl	205	25	14	1	8.4	-0.000004	-0.0019	ug/L
Pb	208	143	137	12	8.9	-0.000004	-0.0018	ug/L
Bi	209	261	30	10	31.8	-0.000085	-0.0099	ug/L
Th	232	199	31	12	39.2	-0.000062	-0.0082	ug/L
U	238	16	11	2	15.7	-0.000002	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.620
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.043
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.225
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	103.330
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248C

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:41:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 129

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248C.099

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	30	3	10.3	-0.000010	-0.0092	ug/L
Be	9	33	26	4	15.3	-0.000006	-0.0180	ug/L
B	11	169	110	7	6.3	-0.000051	-0.0740	ug/L
Na	23	6859	10813	204	1.9	0.002731	-1.3071	ug/L
Mg	24	156	261	13	4.9	0.000074	-0.1901	ug/L
Al	27	891	1419	78	5.5	0.000366	0.0543	ug/L
K	39	409328	425684	1303	0.3	-0.003376	-0.2038	ug/L
Ca	44	69014	41291	387	0.9	-0.023654	-87.2374	ug/L
Sc	45	1256607	1320732	21051	1.6	1320732.492479		ug/L
Ti	47	283	183	18	9.6	-0.000086	-0.1059	ug/L
Ti	48	-5947	-3460	45	1.3	0.002112	0.2484	ug/L
V	51	5985	2702	31	1.1	-0.002716	-0.2608	ug/L
Cr	52	6084	5928	181	3.1	-0.000353	-0.0387	ug/L
Cr	53	1948	902	28	3.1	-0.000867	-0.8922	ug/L
Mn	55	361	330	15	4.6	-0.000037	-0.0053	ug/L
Fe	54	51442	38139	411	1.1	-0.012058	-18.4606	ug/L
Fe	57	3551	3910	117	3.0	0.000135	0.4172	ug/L
Co	59	37	34	5	15.0	-0.000004	-0.0052	ug/L
Ni	60	52	86	3	3.6	0.000024	0.0114	ug/L
Ni	62	215	225	10	4.3	-0.000001	-0.0074	ug/L
Cu	65	54	60	7	11.6	0.000005	-0.0054	ug/L
Cu	63	85	112	8	7.2	0.000028	0.0037	ug/L
Zn	66	245	394	16	4.1	0.000179	0.1313	ug/L
Zn	68	228	314	45	14.3	0.000097	0.1123	ug/L
Ge	74	709212	750800	9592	1.3	750799.553905		ug/L
As	75	154	103	63	61.2	-0.000079	0.0086	ug/L
As-1	75	7631	7427	107	1.4	-0.000867	-0.1833	ug/L
Se	77	105	80	13	15.6	-0.000007	-0.1767	ug/L
Se	82	-3	5	24	446.9	0.000003	0.0565	ug/L
Sr	88	94	135	13	9.6	0.000013	-0.0020	ug/L
Y	89	67	67	5	7.5	0.000000	0.0133	ug/L
Mo	98	144	45	9	20.3	-0.000031	-0.0122	ug/L
Ag	107	37	26	3	11.2	-0.000004	0.0007	ug/L
Ag	109	38	28	4	13.7	-0.000003	0.0000	ug/L
Cd	111	24	14	3	23.5	-0.000003	-0.0032	ug/L
Cd	114	20	26	22	84.0	0.000002	-0.0009	ug/L

>	In	115	3160654	3129612	85847	2.7	3129611.729223		ug/L
	Sn	120	17270	17590	445	2.5	0.000157	-0.0584	ug/L
	Sb	121	224	90	10	11.1	-0.000042	0.2757	ug/L
	Cs	133	20	17	1	5.9	-0.000001	-0.0015	ug/L
	Ba	138	86	149	15	9.9	0.000020	0.0012	ug/L
	Ce	140	36	27	6	22.6	-0.000003	-0.0000	ug/L
>	Tm	169	2730830	2782557	95243	3.4	2782557.148807		ug/L
	Tl	205	25	16	4	21.5	-0.000003	-0.0017	ug/L
	Pb	208	143	169	14	8.1	0.000009	-0.0004	ug/L
	Bi	209	261	33	7	21.7	-0.000084	-0.0097	ug/L
	Th	232	199	30	3	10.6	-0.000062	-0.0082	ug/L
	U	238	16	12	1	8.3	-0.000001	-0.0003	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.103
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.864
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.018
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.894
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248A In House

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:45:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248A In House.100

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	35	7	18.7	-0.000006	-0.0043	ug/L
Be	9	33	28	6	21.4	-0.000005	-0.0133	ug/L
B	11	169	103	7	6.4	-0.000056	-0.0864	ug/L
Na	23	6859	14296	276	1.9	0.005460	-0.6946	ug/L
Mg	24	156	135	8	5.7	-0.000021	-0.2214	ug/L
Al	27	891	903	63	6.9	-0.000020	-0.0365	ug/L
K	39	409328	421588	2501	0.6	-0.003826	-0.2559	ug/L
Ca	44	69014	40687	251	0.6	-0.023854	-88.0157	ug/L
Sc	45	1256607	1309746	18757	1.4	1309745.583205		ug/L
Ti	47	283	181	12	6.5	-0.000087	-0.1067	ug/L
Ti	48	-5947	-3414	12	0.4	0.002125	0.2500	ug/L
V	51	5985	2633	59	2.2	-0.002752	-0.2645	ug/L
Cr	52	6084	5714	135	2.4	-0.000479	-0.0548	ug/L
Cr	53	1948	891	3	0.3	-0.000869	-0.8948	ug/L
Mn	55	361	295	13	4.5	-0.000062	-0.0075	ug/L
Fe	54	51442	37709	523	1.4	-0.012145	-18.6095	ug/L
Fe	57	3551	3799	64	1.7	0.000075	0.1491	ug/L
Co	59	37	34	5	13.5	-0.000004	-0.0051	ug/L
Ni	60	52	45	11	24.4	-0.000007	-0.0048	ug/L
Ni	62	215	201	11	5.5	-0.000018	-0.0673	ug/L
Cu	65	54	44	6	13.6	-0.000015	-0.0106	ug/L
Cu	63	85	62	4	6.8	-0.000035	-0.0046	ug/L
Zn	66	245	312	26	8.3	0.000085	0.0851	ug/L
Zn	68	228	252	32	12.6	0.000025	0.0650	ug/L
Ge	74	709212	725644	862	0.1	725643.836564		ug/L
As	75	154	72	35	48.0	-0.000117	-0.0040	ug/L
As-1	75	7631	7337	146	2.0	-0.000649	-0.1065	ug/L
Se	77	105	95	3	2.8	-0.000002	-0.0649	ug/L
Se	82	-3	-1	25	1684.1	0.000000	0.0231	ug/L
Sr	88	94	102	20	19.1	0.000003	-0.0032	ug/L
Y	89	67	65	5	7.3	-0.000000	0.0131	ug/L
Mo	98	144	40	18	44.5	-0.000033	-0.0129	ug/L
Ag	107	37	23	3	13.5	-0.000004	0.0005	ug/L
Ag	109	38	26	5	17.6	-0.000004	-0.0001	ug/L
Cd	111	24	19	4	19.0	-0.000001	-0.0010	ug/L
Cd	114	20	19	9	46.0	-0.000000	-0.0020	ug/L

> In	115	3160654	3079700	48522	1.6	3079699.825096		ug/L
Sn	120	17270	17035	480	2.8	0.000067	-0.0837	ug/L
Sb	121	224	43	9	21.8	-0.000057	0.2700	ug/L
Cs	133	20	16	2	10.8	-0.000001	-0.0015	ug/L
Ba	138	86	172	5	3.2	0.000029	0.0022	ug/L
Ce	140	36	37	8	20.3	0.000001	0.0003	ug/L
> Tm	169	2730830	2722280	40411	1.5	2722280.062193		ug/L
Tl	205	25	13	6	46.2	-0.000004	-0.0019	ug/L
Pb	208	143	147	18	12.4	0.000002	-0.0012	ug/L
Bi	209	261	29	12	42.1	-0.000085	-0.0099	ug/L
Th	232	199	34	6	17.9	-0.000060	-0.0079	ug/L
U	238	16	18	2	8.6	0.000001	-0.0001	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.229
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.317
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.439
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	99.687
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248B In House

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:49:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 131

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248B In House.101

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	33	9	26.2	-0.000008	-0.0062	ug/L
Be	9	33	26	7	25.8	-0.000006	-0.0176	ug/L
B	11	169	101	9	8.6	-0.000058	-0.0931	ug/L
Na	23	6859	18165	384	2.1	0.008362	-0.0432	ug/L
Mg	24	156	286	26	9.0	0.000094	-0.1836	ug/L
Al	27	891	860	40	4.6	-0.000055	-0.0446	ug/L
K	39	409328	424254	888	0.2	-0.002941	-0.1534	ug/L
Ca	44	69014	40826	280	0.7	-0.023855	-88.0216	ug/L
Sc	45	1256607	1314520	21368	1.6	1314520.199645		ug/L
Ti	47	283	187	11	5.7	-0.000083	-0.1009	ug/L
Ti	48	-5947	-3410	26	0.8	0.002137	0.2514	ug/L
V	51	5985	2626	19	0.7	-0.002764	-0.2658	ug/L
Cr	52	6084	5727	110	1.9	-0.000483	-0.0553	ug/L
Cr	53	1948	875	33	3.8	-0.000884	-0.9105	ug/L
Mn	55	361	304	13	4.2	-0.000056	-0.0070	ug/L
Fe	54	51442	39194	853	2.2	-0.011121	-16.8655	ug/L
Fe	57	3551	3778	118	3.1	0.000048	0.0271	ug/L
Co	59	37	31	4	12.9	-0.000006	-0.0054	ug/L
Ni	60	52	122	12	9.4	0.000052	0.0261	ug/L
Ni	62	215	256	7	2.8	0.000024	0.0791	ug/L
Cu	65	54	51	9	16.8	-0.000007	-0.0085	ug/L
Cu	63	85	84	7	8.1	-0.000006	-0.0008	ug/L
Zn	66	245	290	8	2.7	0.000048	0.0667	ug/L
Zn	68	228	240	4	1.6	0.000003	0.0507	ug/L
Ge	74	709212	737618	19815	2.7	737618.183628		ug/L
As	75	154	148	71	48.0	-0.000015	0.0300	ug/L
As-1	75	7631	7429	37	0.5	-0.000682	-0.1181	ug/L
Se	77	105	77	16	20.6	-0.000009	-0.1996	ug/L
Se	82	-3	3	4	115.2	0.000002	0.0446	ug/L
Sr	88	94	136	9	6.4	0.000014	-0.0019	ug/L
Y	89	67	61	11	18.5	-0.000002	0.0124	ug/L
Mo	98	144	43	19	44.3	-0.000032	-0.0126	ug/L
Ag	107	37	30	2	5.8	-0.000002	0.0011	ug/L
Ag	109	38	28	4	12.9	-0.000003	0.0001	ug/L
Cd	111	24	15	6	40.0	-0.000003	-0.0028	ug/L
Cd	114	20	24	24	101.1	0.000001	-0.0014	ug/L

> In	115	3160654	3133319	105767	3.4	3133319.236317		ug/L
Sn	120	17270	17717	1153	6.5	0.000187	-0.0499	ug/L
Sb	121	224	49	4	8.6	-0.000055	0.2705	ug/L
Cs	133	20	17	3	17.6	-0.000001	-0.0015	ug/L
Ba	138	86	119	8	6.8	0.000011	0.0000	ug/L
Ce	140	36	29	5	17.2	-0.000002	0.0001	ug/L
> Tm	169	2730830	2738937	69940	2.6	2738937.090572		ug/L
Tl	205	25	16	3	16.5	-0.000003	-0.0018	ug/L
Pb	208	143	142	13	9.4	-0.000000	-0.0014	ug/L
Bi	209	261	28	1	3.6	-0.000085	-0.0100	ug/L
Th	232	199	27	6	20.7	-0.000063	-0.0085	ug/L
U	238	16	14	2	12.4	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.609
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.005
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.135
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.297
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 12-248C In House

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:53:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 132

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\12-248C In House.102

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	33	7	20.4	-0.000007	-0.0056	ug/L
Be	9	33	30	12	39.6	-0.000003	-0.0070	ug/L
B	11	169	115	18	15.9	-0.000046	-0.0601	ug/L
Na	23	6859	121472	1676	1.4	0.087803	17.7883	ug/L
Mg	24	156	209	19	9.0	0.000037	-0.2024	ug/L
Al	27	891	933	34	3.7	0.000007	-0.0302	ug/L
K	39	409328	421976	243	0.1	-0.001740	-0.0144	ug/L
Ca	44	69014	40488	684	1.7	-0.023834	-87.9376	ug/L
Sc	45	1256607	1302443	10073	0.8	1302443.451339		ug/L
Ti	47	283	181	7	3.8	-0.000086	-0.1059	ug/L
Ti	48	-5947	-3420	52	1.5	0.002106	0.2477	ug/L
V	51	5985	2593	41	1.6	-0.002771	-0.2666	ug/L
Cr	52	6084	5568	165	3.0	-0.000566	-0.0658	ug/L
Cr	53	1948	865	14	1.6	-0.000886	-0.9123	ug/L
Mn	55	361	289	15	5.1	-0.000065	-0.0078	ug/L
Fe	54	51442	37937	1364	3.6	-0.011804	-18.0286	ug/L
Fe	57	3551	3733	36	1.0	0.000040	-0.0063	ug/L
Co	59	37	32	8	23.2	-0.000005	-0.0053	ug/L
Ni	60	52	52	10	19.3	-0.000001	-0.0019	ug/L
Ni	62	215	233	4	1.5	0.000008	0.0235	ug/L
Cu	65	54	39	8	19.8	-0.000023	-0.0127	ug/L
Cu	63	85	64	10	15.1	-0.000033	-0.0043	ug/L
Zn	66	245	178	6	3.1	-0.000102	-0.0074	ug/L
Zn	68	228	174	17	9.6	-0.000085	-0.0075	ug/L
Ge	74	709212	735428	6671	0.9	735427.679486		ug/L
As	75	154	57	72	128.1	-0.000139	-0.0116	ug/L
As-1	75	7631	7394	113	1.5	-0.000704	-0.1259	ug/L
Se	77	105	99	12	12.1	-0.000001	-0.0484	ug/L
Se	82	-3	-1	14	1226.4	0.000000	0.0239	ug/L
Sr	88	94	101	13	12.4	0.000002	-0.0033	ug/L
Y	89	67	57	3	5.3	-0.000003	0.0118	ug/L
Mo	98	144	44	24	54.3	-0.000032	-0.0125	ug/L
Ag	107	37	29	6	21.0	-0.000003	0.0010	ug/L
Ag	109	38	27	2	6.4	-0.000003	-0.0000	ug/L
Cd	111	24	20	4	20.5	-0.000001	-0.0007	ug/L
Cd	114	20	32	29	90.4	0.000004	0.0000	ug/L

> In	115	3160654	3144401	39340	1.3	3144400.745352		ug/L
Sn	120	17270	17629	473	2.7	0.000144	-0.0621	ug/L
Sb	121	224	46	16	34.9	-0.000056	0.2702	ug/L
Cs	133	20	13	6	42.6	-0.000002	-0.0016	ug/L
Ba	138	86	206	14	6.8	0.000038	0.0034	ug/L
Ce	140	36	35	8	22.3	-0.000000	0.0002	ug/L
> Tm	169	2730830	2754270	46686	1.7	2754269.593130		ug/L
Tl	205	25	16	6	41.0	-0.000004	-0.0018	ug/L
Pb	208	143	136	14	10.5	-0.000003	-0.0017	ug/L
Bi	209	261	29	10	34.5	-0.000085	-0.0099	ug/L
Th	232	199	31	4	11.2	-0.000061	-0.0082	ug/L
U	238	16	14	8	55.9	-0.000001	-0.0002	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.648
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.696
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.486
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	100.858
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SatWastePrep

Sample Description: 1000x

Batch ID:

Sample Date/Time: Friday, September 14, 2012 18:57:28

Diluted To Volume (mL): 1000.00

Aliquot Volume (mL): 1

Autosampler Position: 133

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SatWastePrep.103

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	229	17	7.3	0.000140	163.9453	ug/L
Be	9	33	27	7	23.8	-0.000005	-15.4603	ug/L
B	11	169	8290	113	1.4	0.006140	17289.0044	ug/L
Na	23	6859	6089774	42061	0.7	4.603015	1031279.8798	ug/L
Mg	24	156	766500	1472	0.2	0.579927	190713.9958	ug/L
Al	27	891	3289	39	1.2	0.001780	387.1076	ug/L
K	39	409328	928083	16714	1.8	0.376462	43774.2647	ug/L
Ca	44	69014	339905	6005	1.8	0.202259	791615.5216	ug/L
Sc	45	1256607	1321634	19675	1.5	1321634.317361		ug/L
Ti	47	283	228	13	5.5	-0.000052	-58.5048	ug/L
Ti	48	-5947	1853	199	10.7	0.006134	733.5145	ug/L
V	51	5985	2794	25	0.9	-0.002648	-253.5979	ug/L
Cr	52	6084	6022	167	2.8	-0.000286	-30.0485	ug/L
Cr	53	1948	894	32	3.6	-0.000873	-899.1835	ug/L
Mn	55	361	33570	249	0.7	0.025117	2269.8456	ug/L
Fe	54	51442	53643	706	1.3	-0.000343	1487.5890	ug/L
Fe	57	3551	4428	40	0.9	0.000524	2165.0418	ug/L
Co	59	37	98	8	7.8	0.000045	0.5136	ug/L
Ni	60	52	13	5	40.8	-0.000031	-17.6352	ug/L
Ni	62	215	238	18	7.5	0.000009	25.4707	ug/L
Cu	65	54	69	13	19.2	0.000016	-2.3473	ug/L
Cu	63	85	159	20	12.5	0.000092	11.8818	ug/L
Zn	66	245	235	14	6.1	-0.000031	27.9191	ug/L
Zn	68	228	222	11	4.9	-0.000026	31.5783	ug/L
Ge	74	709212	748823	3142	0.4	748823.218388		ug/L
As	75	154	124	41	33.3	-0.000051	17.9611	ug/L
As-1	75	7631	7601	50	0.7	-0.000608	-92.1994	ug/L
Se	77	105	102	8	7.4	-0.000001	-44.6758	ug/L
Se	82	-3	18	7	40.6	0.000006	114.5319	ug/L
Sr	88	94	49843	1152	2.3	0.015565	1894.7549	ug/L
Y	89	67	159	15	9.6	0.000028	26.2855	ug/L
Mo	98	144	79	6	7.6	-0.000021	-6.9778	ug/L
Ag	107	37	26	7	25.8	-0.000004	0.7407	ug/L
Ag	109	38	30	3	11.5	-0.000003	0.1978	ug/L
Cd	111	24	19	8	41.6	-0.000002	-1.4379	ug/L
Cd	114	20	-4	41	1172.9	-0.000007	-5.7376	ug/L

> In	115	3160654	3196736	46069	1.4	3196736.473254		ug/L
Sn	120	17270	17910	347	1.9	0.000138	-63.6079	ug/L
Sb	121	224	61	23	37.1	-0.000052	271.9170	ug/L
Cs	133	20	25	15	60.4	0.000001	-1.2796	ug/L
Ba	138	86	1237	27	2.2	0.000360	43.4522	ug/L
Ce	140	36	122	12	10.1	0.000027	2.9403	ug/L
> Tm	169	2730830	2781891	48213	1.7	2781891.165318		ug/L
Tl	205	25	17	5	27.1	-0.000003	-1.7357	ug/L
Pb	208	143	356	19	5.3	0.000076	7.2307	ug/L
Bi	209	261	42	14	34.0	-0.000081	-9.2982	ug/L
Th	232	199	91	15	16.5	-0.000040	-3.9277	ug/L
U	238	16	62	6	9.1	0.000017	1.6039	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.175
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.585
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.142
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.870
	Tl	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SatWasteRec

Sample Description: 1000x

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:01:21

Diluted To Volume (mL): 1000.00

Aliquot Volume (mL): 1

Autosampler Position: 134

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SatWasteRec.104

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	71872	11681	16.3	0.076734	88116.3053	ug/L
Be	9	33	31	5	15.4	0.000007	25.3382	ug/L
B	11	169	106300	16441	15.5	0.113440	318222.0962	ug/L
Na	23	6859	S	S	S	S	S	ug/L
Mg	24	156	153309312	8659985	5.6	164.616689	54196299.4400	ug/L
Al	27	891	1069693	53935	5.0	1.148231	270241.2626	ug/L
K	39	409328	162027623	11408170	7.0	173.545237	20093470.0246	ug/L
Ca	44	69014	3985421	303681	7.6	4.221076	16425730.5109	ug/L
Sc	45	1256607	932332	72813	7.8	932332.001633		ug/L
Ti	47	283	686	55	8.0	0.000516	729.3032	ug/L
Ti	48	-5947	133507	12134	9.1	0.147919	17833.5253	ug/L
V	51	5985	22091	505	2.3	0.019048	2029.9048	ug/L
Cr	52	6084	6987	307	4.4	0.002695	350.2576	ug/L
Cr	53	1948	6867	181	2.6	0.005853	6367.9944	ug/L
Mn	55	361	471802	38073	8.1	0.505698	45736.6643	ug/L
Fe	54	51442	116943	7570	6.5	0.084580	146099.6953	ug/L
Fe	57	3551	34285	1352	3.9	0.034019	152449.0525	ug/L
Co	59	37	2142	86	4.0	0.002273	260.4436	ug/L
Ni	60	52	144	95	65.9	0.000118	61.1476	ug/L
Ni	62	215	1152	452	39.3	0.001092	3822.9860	ug/L
Cu	65	54	2110	202	9.6	0.004272	1111.6821	ug/L
Cu	63	85	14006	1140	8.1	0.028767	3725.2196	ug/L
Zn	66	245	7014	698	9.9	0.014104	6984.8166	ug/L
Zn	68	228	5077	501	9.9	0.010137	6718.5878	ug/L
Ge	74	709212	485259	45312	9.3	485259.474931		ug/L
As	75	154	4141	505	12.2	0.008303	2818.4679	ug/L
As-1	75	7631	7714	599	7.8	0.005153	1939.9143	ug/L
Se	77	105	1074	12	1.1	0.000392	8403.0586	ug/L
Se	82	-3	806	72	8.9	0.000319	4862.9070	ug/L
Sr	88	94	4676633	332103	7.1	1.850580	225694.8564	ug/L
Y	89	67	4342	239	5.5	0.001697	794.4487	ug/L
Mo	98	144	8516	531	6.2	0.003325	1699.4675	ug/L
Ag	107	37	1343	55	4.1	0.000520	149.1785	ug/L
Ag	109	38	1333	69	5.2	0.000516	152.2830	ug/L
Cd	111	24	84	17	19.7	0.000026	30.8663	ug/L
Cd	114	20	193	68	34.9	0.000070	33.0089	ug/L

>	In	115	3160654	2526121	121332	4.8	2526120.621541		ug/L
	Sn	120	17270	15540	663	4.3	0.000691	91.9461	ug/L
	Sb	121	224	534	56	10.5	0.000140	346.1236	ug/L
	Cs	133	20	2886	58	2.0	0.001138	102.8556	ug/L
	Ba	138	86	140795	2272	1.6	0.055819	6949.6650	ug/L
	Ce	140	36	11291	226	2.0	0.004467	445.8549	ug/L
>	Tm	169	2730830	2759743	60553	2.2	2759742.563589		ug/L
	Tl	205	25	199	12	5.8	0.000063	8.3246	ug/L
	Pb	208	143	1768	10	0.5	0.000589	65.3908	ug/L
	Bi	209	261	151	40	26.7	-0.000041	-3.6926	ug/L
	Th	232	199	480	21	4.3	0.000101	23.8680	ug/L
	U	238	16	5302	183	3.4	0.001917	201.9410	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	74.194
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	68.422
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	79.924
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	101.059
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:05:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV2.105

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	2312	125	5.4	0.002000	2.2999	ug/L
Be	9	33	359	19	5.3	0.000290	0.9548	ug/L
B	11	169	18707	1418	7.6	0.016307	45.8047	ug/L
Na	23	6859	2851763	41119	1.4	2.505013	560.3590	ug/L
Mg	24	156	785569	32184	4.1	0.691089	227.3117	ug/L
Al	27	891	265863	10466	3.9	0.233242	54.8693	ug/L
K	39	409328	1439755	1384	0.1	0.942093	109.2638	ug/L
Ca	44	69014	362913	8160	2.2	0.264581	1034.0603	ug/L
Sc	45	1256607	1136844	46976	4.1	1136843.537904		ug/L
Ti	47	283	4366	36	0.8	0.003619	5.0348	ug/L
Ti	48	-5947	44427	1039	2.3	0.043832	5.2801	ug/L
V	51	5985	60518	806	1.3	0.048512	5.1310	ug/L
Cr	52	6084	124558	3944	3.2	0.104792	13.3791	ug/L
Cr	53	1948	15376	259	1.7	0.011984	12.9907	ug/L
Mn	55	361	32779	1241	3.8	0.028550	2.5803	ug/L
Fe	54	51442	221833	4886	2.2	0.154310	264.8411	ug/L
Fe	57	3551	68524	1882	2.7	0.057477	257.7006	ug/L
Co	59	37	25537	1068	4.2	0.022433	2.6127	ug/L
Ni	60	52	11392	285	2.5	0.009984	5.2695	ug/L
Ni	62	215	1990	79	4.0	0.001579	5.5293	ug/L
Cu	65	54	13341	132	1.0	0.021000	5.4914	ug/L
Cu	63	85	26591	670	2.5	0.041870	5.4221	ug/L
Zn	66	245	6783	218	3.2	0.010364	5.1441	ug/L
Zn	68	228	5122	380	7.4	0.007756	5.1517	ug/L
Ge	74	709212	633511	25311	4.0	633511.152396		ug/L
As	75	154	10178	94	0.9	0.015864	5.3530	ug/L
As-1	75	7631	16323	388	2.4	0.015021	5.4211	ug/L
Se	77	105	1449	107	7.3	0.000420	8.9890	ug/L
Se	82	-3	1905	43	2.3	0.000597	9.0798	ug/L
Sr	88	94	123806	840	0.7	0.038738	4.7209	ug/L
Y	89	67	19276	232	1.2	0.006013	2.7809	ug/L
Mo	98	144	3056	55	1.8	0.000912	0.4688	ug/L
Ag	107	37	10925	53	0.5	0.003410	0.9686	ug/L
Ag	109	38	10881	295	2.7	0.003396	0.9970	ug/L
Cd	111	24	1351	30	2.2	0.000416	0.4906	ug/L
Cd	114	20	3266	14	0.4	0.001017	0.5094	ug/L

>	In	115	3160654	3198229	156725	4.9	3198229.319031		ug/L
	Sn	120	17270	46623	747	1.6	0.009140	2.4708	ug/L
	Sb	121	224	5965	825	13.8	0.001805	0.9898	ug/L
	Cs	133	20	94139	1488	1.6	0.029476	2.6985	ug/L
	Ba	138	86	68344	1267	1.9	0.021379	2.6610	ug/L
	Ce	140	36	17960	212	1.2	0.005612	0.5601	ug/L
>	Tm	169	2730830	2975957	71389	2.4	2975956.521639		ug/L
	Tl	205	25	5049	74	1.5	0.001688	0.2560	ug/L
	Pb	208	143	64941	508	0.8	0.021775	2.4673	ug/L
	Bi	209	261	49986	1382	2.8	0.016713	2.3811	ug/L
	Th	232	199	6493	2874	44.3	0.002122	0.4224	ug/L
	U	238	16	13694	186	1.4	0.004597	0.4845	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	90.469
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	89.326
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	101.189
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169	108.976
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB2

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:09:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB2.106

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41	68	7	10.3	0.000023	0.0293	ug/L
Be	9	33	27	4	16.1	-0.000004	-0.0109	ug/L
B	11	169	185	7	3.7	0.000017	0.1174	ug/L
Na	23	6859	50980	7979	15.7	0.036335	6.2356	ug/L
Mg	24	156	870	26	3.0	0.000589	-0.0206	ug/L
Al	27	891	880	31	3.5	0.000012	-0.0290	ug/L
K	39	409328	434290	2664	0.6	0.030106	3.6728	ug/L
Ca	44	69014	46881	796	1.7	-0.016507	-59.4334	ug/L
Sc	45	1256607	1220503	7567	0.6	1220503.457482		ug/L
Ti	47	283	210	6	3.1	-0.000053	-0.0600	ug/L
Ti	48	-5947	-3384	107	3.2	0.001960	0.2301	ug/L
V	51	5985	4008	82	2.0	-0.001478	-0.1304	ug/L
Cr	52	6084	6056	65	1.1	0.000120	0.0218	ug/L
Cr	53	1948	1295	99	7.7	-0.000489	-0.4833	ug/L
Mn	55	361	422	5	1.2	0.000058	0.0034	ug/L
Fe	54	51442	48495	1141	2.4	-0.001201	0.0262	ug/L
Fe	57	3551	3936	112	2.8	0.000399	1.6035	ug/L
Co	59	37	37	2	5.6	0.000001	-0.0046	ug/L
Ni	60	52	45	6	13.3	-0.000005	-0.0036	ug/L
Ni	62	215	232	11	4.9	0.000019	0.0616	ug/L
Cu	65	54	77	8	9.7	0.000038	0.0033	ug/L
Cu	63	85	169	37	21.9	0.000128	0.0166	ug/L
Zn	66	245	246	19	7.6	0.000016	0.0511	ug/L
Zn	68	228	232	12	5.2	0.000018	0.0608	ug/L
Ge	74	709212	680806	6887	1.0	680805.538413		ug/L
As	75	154	121	24	19.7	-0.000038	0.0222	ug/L
As-1	75	7631	7291	71	1.0	-0.000049	0.1049	ug/L
Se	77	105	92	6	6.8	-0.000005	-0.1257	ug/L
Se	82	-3	3	5	190.6	0.000002	0.0412	ug/L
Sr	88	94	141	10	7.1	0.000013	-0.0020	ug/L
Y	89	67	65	3	4.1	-0.000001	0.0125	ug/L
Mo	98	144	80	18	23.1	-0.000021	-0.0072	ug/L
Ag	107	37	146	9	6.2	0.000033	0.0110	ug/L
Ag	109	38	137	14	9.9	0.000030	0.0097	ug/L
Cd	111	24	21	3	14.0	-0.000001	-0.0009	ug/L
Cd	114	20	13	25	189.1	-0.000002	-0.0031	ug/L

> In	115	3160654	3282083	65995	2.0	3282082.958456		ug/L
Sn	120	17270	17983	609	3.4	0.000014	-0.0986	ug/L
Sb	121	224	585	96	16.5	0.000107	0.3333	ug/L
Cs	133	20	26	8	32.4	0.000001	-0.0013	ug/L
Ba	138	86	108	12	11.0	0.000006	-0.0006	ug/L
Ce	140	36	33	4	12.7	-0.000001	0.0001	ug/L
> Tm	169	2730830	2945831	91631	3.1	2945831.000356		ug/L
Tl	205	25	15	2	14.2	-0.000004	-0.0019	ug/L
Pb	208	143	169	5	2.9	0.000005	-0.0008	ug/L
Bi	209	261	549	224	40.9	0.000090	0.0149	ug/L
Th	232	199	504	198	39.3	0.000097	0.0231	ug/L
U	238	16	20	6	28.0	0.000001	-0.0000	ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	97.127
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	95.995
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.842
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169	107.873
	TI	205	
	Pb	208	
	Bi	209	
	Th	232	
L	U	238	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BLK1

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:29:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 135

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BLK1.107

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	158	12	7.3	-0.000001	-0.2147	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	47315	1154	2.4	-0.017972	-65.1331	ug/L
Sc	45	1256607	1280448	20028	1.6	1280447.722943		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3671	138	3.8	-0.001896	-0.1745	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	340	27	7.9	-0.000022	-0.0039	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	57	4	7.6	0.000002	-0.0062	ug/L
Cu	63	85	106	9	8.0	0.000024	0.0032	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	734932	7405	1.0	734932.477455		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	89	9	9.7	-0.000006	-0.1367	ug/L
Se	82	-3	-7	23	316.2	-0.000001	-0.0042	ug/L
Sr	88	94	101	5	5.0	0.000001	-0.0034	ug/L
Y	89	67						ug/L
Mo	98	144	41	18	42.9	-0.000033	-0.0130	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3225055	23603	0.7	3225055.429541	ug/L
Sn	120	17270	17451	641	3.7	-0.000053	-0.1175 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	101	21	21.2	0.000004	-0.0009 ug/L
Ce	140	36	34	2	5.9	-0.000001	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.897
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.627
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.038
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BLK2

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:31:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 136

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BLK2.108

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	131	3	2.2	-0.000020	-0.2211	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45597	418	0.9	-0.018826	-68.4555	ug/L
Sc	45	1256607	1263600	21609	1.7	1263599.887372		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3349	62	1.8	-0.002111	-0.1971	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	363	13	3.6	0.000000	-0.0019	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	48	8	15.7	-0.000010	-0.0093	ug/L
Cu	63	85	88	11	12.6	0.000001	0.0001	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	728261	7663	1.1	728260.802580		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	93	8	9.0	-0.000004	-0.0980	ug/L
Se	82	-3	-0	9	2289.1	0.000001	0.0275	ug/L
Sr	88	94	106	15	13.9	0.000003	-0.0032	ug/L
Y	89	67						ug/L
Mo	98	144	32	5	15.8	-0.000036	-0.0144	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3183481	15906	0.5	3183481.315149	ug/L
	Sn	120	17270	16895	45	0.3	-0.000157	-0.1467 ug/L
	Sb	121	224					ug/L
	Cs	133	20					ug/L
	Ba	138	86	117	10	8.3	0.000010	-0.0002 ug/L
	Ce	140	36	33	9	26.9	-0.000001	0.0002 ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.556
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.686
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.722
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BLK3

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:33:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 137

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BLK3.109

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	131	10	7.3	-0.000021	-0.2214	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45215	589	1.3	-0.019330	-70.4151	ug/L
Sc	45	1256607	1270653	17153	1.3	1270653.039617		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3335	51	1.5	-0.002137	-0.1998	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	364	20	5.6	-0.000001	-0.0020	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	42	2	5.0	-0.000018	-0.0114	ug/L
Cu	63	85	106	12	10.9	0.000026	0.0034	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	722348	9662	1.3	722347.925493		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	100	10	9.5	-0.000002	-0.0575	ug/L
Se	82	-3	-2	23	936.7	0.000000	0.0179	ug/L
Sr	88	94	91	7	7.7	-0.000001	-0.0038	ug/L
Y	89	67						ug/L
Mo	98	144	39	10	26.0	-0.000033	-0.0133	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3213962	63917	2.0	3213961.616832		ug/L
Sn	120	17270	17275	696	4.0	-0.000090	-0.1279	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	93	18	19.6	0.000002	-0.0011	ug/L
Ce	140	36	34	5	13.4	-0.000001	0.0002	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.118
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.852
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.687
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BLK4

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:35:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 138

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BLK4.110

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	150	23	15.0	-0.000003	-0.2153	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44603	463	1.0	-0.018994	-69.1077	ug/L
Sc	45	1256607	1243892	60951	4.9	1243891.918991		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3271	87	2.6	-0.002127	-0.1987	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	391	14	3.6	0.000028	0.0006	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	52	5	9.7	-0.000002	-0.0072	ug/L
Cu	63	85	97	4	4.5	0.000018	0.0023	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	703941	35773	5.1	703940.600322		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	103	12	11.9	0.000000	-0.0090	ug/L
Se	82	-3	7	12	171.1	0.000003	0.0642	ug/L
Sr	88	94	104	10	9.8	0.000004	-0.0031	ug/L
Y	89	67						ug/L
Mo	98	144	30	4	11.7	-0.000036	-0.0146	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3100555	112968	3.6	3100554.552498		ug/L
Sn	120	17270	16188	901	5.6	-0.000245	-0.1716	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	112	4	3.4	0.000009	-0.0002	ug/L
Ce	140	36	35	4	9.9	0.000000	0.0003	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	98.988
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	99.257
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.099
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV3

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:36:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV3.111

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	824172	24888	3.0	0.639260	210.2481	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	404383	12677	3.1	0.258820	1011.6512	ug/L
Sc	45	1256607	1288966	30552	2.4	1288966.268357		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	64633	1537	2.4	0.045388	4.8022	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	37388	1242	3.3	0.028730	2.5966	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	14271	480	3.4	0.019392	5.0705	ug/L
Cu	63	85	28302	681	2.4	0.038491	4.9845	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	732946	12838	1.8	732946.197988		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1653	88	5.3	0.000475	10.1841	ug/L
Se	82	-3	2176	140	6.4	0.000670	10.1929	ug/L
Sr	88	94	140551	4606	3.3	0.043225	5.2682	ug/L
Y	89	67						ug/L
Mo	98	144	3184	94	2.9	0.000934	0.4803	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3248802	45229	1.4	3248801.520329	ug/L
Sn	120	17270	47424	1308	2.8	0.009132	2.4683 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	63437	1693	2.7	0.019497	2.4265 ug/L
Ce	140	36	16435	559	3.4	0.005046	0.5036 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.575
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.347
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.789
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB3

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:38:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB3.112

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	795	43	5.4	0.000494	-0.0520	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44558	341	0.8	-0.020342	-74.3536	ug/L
Sc	45	1256607	1291724	77600	6.0	1291723.746173		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3160	92	2.9	-0.002308	-0.2178	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	399	6	1.5	0.000022	0.0001	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	46	4	8.2	-0.000012	-0.0098	ug/L
Cu	63	85	95	10	10.0	0.000010	0.0013	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	728794	39522	5.4	728794.099951		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	88	12	14.1	-0.000005	-0.1342	ug/L
Se	82	-3	4	6	146.8	0.000002	0.0500	ug/L
Sr	88	94	127	10	8.2	0.000010	-0.0023	ug/L
Y	89	67						ug/L
Mo	98	144	42	6	14.4	-0.000032	-0.0128	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3173606	230427	7.3	3173605.566165		ug/L
Sn	120	17270	17801	1081	6.1	0.000149	-0.0607	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	116	7	5.8	0.000009	-0.0002	ug/L
Ce	140	36	39	6	14.0	0.000001	0.0004	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.795
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.761
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.410
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS1

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:40:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 139

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS1.113

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	24883	552	2.2	0.019700	6.2713	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	65404	462	0.7	-0.002791	-6.0780	ug/L
Sc	45	1256607	1255528	40007	3.2	1255527.680762		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6785	71	1.0	0.000645	0.0930	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1835	32	1.7	0.001175	0.1044	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	613	4	0.6	0.000784	0.1986	ug/L
Cu	63	85	1237	62	5.0	0.001613	0.2089	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	713990	30927	4.3	713989.785544		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	155	11	6.8	0.000017	0.3426	ug/L
Se	82	-3	98	13	12.9	0.000032	0.5083	ug/L
Sr	88	94	2799	44	1.6	0.000872	0.1027	ug/L
Y	89	67						ug/L
Mo	98	144	260	12	4.7	0.000038	0.0231	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3107350	136443	4.4	3107350.281762	ug/L
	Sn	120	17270	23273	479	2.1	0.002031	0.4693 ug/L
	Sb	121	224					ug/L
	Cs	133	20					ug/L
	Ba	138	86	2708	124	4.6	0.000846	0.1041 ug/L
	Ce	140	36	673	13	2.0	0.000206	0.0207 ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
>	Sc	45 99.914
	Ti	47
	Ti	48
	V	51
	Cr	52
	Cr	53
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Ni	62
	Cu	65
	Cu	63
	Zn	66
	Zn	68
>	Ge	74 100.674
	As	75
	As-1	75
	Se	77
	Se	82
	Sr	88
	Y	89
	Mo	98
	Ag	107
	Ag	109
	Cd	111
	Cd	114
>	In	115 98.314
	Sn	120
	Sb	121
	Cs	133
	Ba	138
	Ce	140

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS2

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:42:52

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 140

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS2.114

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	25587	120	0.5	0.019891	6.3342	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	65667	380	0.6	-0.003553	-9.0411	ug/L
Sc	45	1256607	1278449	9238	0.7	1278448.541481		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6814	42	0.6	0.000568	0.0848	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1880	57	3.0	0.001183	0.1051	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	640	21	3.3	0.000803	0.2035	ug/L
Cu	63	85	1245	28	2.3	0.001589	0.2058	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	728776	14973	2.1	728776.255385		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	164	5	2.9	0.000019	0.3900	ug/L
Se	82	-3	88	6	6.8	0.000029	0.4553	ug/L
Sr	88	94	2942	72	2.5	0.000907	0.1070	ug/L
Y	89	67						ug/L
Mo	98	144	289	21	7.2	0.000046	0.0274	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3143880	61890	2.0	3143879.889820	ug/L
Sn	120	17270	24077	349	1.4	0.002197	0.5160 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	2697	33	1.2	0.000831	0.1022 ug/L
Ce	140	36	665	14	2.2	0.000200	0.0202 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.738
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.759
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.469
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS3

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:44:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 141

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS3.115

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	24874	456	1.8	0.019532	6.2159	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	64688	357	0.6	-0.003778	-9.9167	ug/L
Sc	45	1256607	1266356	54054	4.3	1266355.830543		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6683	81	1.2	0.000519	0.0797	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1817	37	2.0	0.001149	0.1020	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	629	25	3.9	0.000803	0.2035	ug/L
Cu	63	85	1209	11	0.9	0.001566	0.2028	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	717302	16415	2.3	717302.155834		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	145	6	3.8	0.000014	0.2805	ug/L
Se	82	-3	98	5	5.1	0.000032	0.5098	ug/L
Sr	88	94	2884	57	2.0	0.000905	0.1067	ug/L
Y	89	67						ug/L
Mo	98	144	289	7	2.4	0.000048	0.0281	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3088591	106693	3.5	3088591.280161		ug/L
Sn	120	17270	23788	337	1.4	0.002241	0.5285	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2637	47	1.8	0.000827	0.1016	ug/L
Ce	140	36	651	9	1.3	0.000200	0.0202	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.776
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.141
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	97.720
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS4

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:46:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 142

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS4.116

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	25133	570	2.3	0.020254	6.4537	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	64562	218	0.3	-0.002594	-5.3096	ug/L
Sc	45	1256607	1234440	35006	2.8	1234440.317036		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6706	117	1.7	0.000673	0.0959	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1881	47	2.5	0.001238	0.1101	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	627	15	2.4	0.000811	0.2056	ug/L
Cu	63	85	1249	42	3.3	0.001647	0.2133	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	707262	17859	2.5	707262.182589		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	152	3	1.7	0.000016	0.3235	ug/L
Se	82	-3	84	2	1.8	0.000028	0.4388	ug/L
Sr	88	94	2815	73	2.6	0.000879	0.1036	ug/L
Y	89	67						ug/L
Mo	98	144	287	22	7.6	0.000047	0.0277	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3099177	85312	2.8	3099176.541012	ug/L
Sn	120	17270	23433	1052	4.5	0.002102	0.4893 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	2735	79	2.9	0.000856	0.1053 ug/L
Ce	140	36	664	15	2.3	0.000203	0.0205 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	98.236
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	99.725
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.055
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS5

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:48:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 143

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS5.117

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2633	33	1.3	0.001939	0.4239	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45201	411	0.9	-0.019501	-71.0810	ug/L
Sc	45	1256607	1276295	12934	1.0	1276295.234032		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3387	54	1.6	-0.002109	-0.1969	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	513	18	3.6	0.000114	0.0084	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	110	11	9.6	0.000074	0.0128	ug/L
Cu	63	85	190	15	8.0	0.000139	0.0180	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	732774	15812	2.2	732774.322191		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	87	2	2.3	-0.000006	-0.1425	ug/L
Se	82	-3	5	13	283.6	0.000002	0.0513	ug/L
Sr	88	94	367	16	4.2	0.000085	0.0068	ug/L
Y	89	67						ug/L
Mo	98	144	53	12	22.6	-0.000029	-0.0112	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3195022	12464	0.4	3195022.161346	ug/L
Sn	120	17270	18545	720	3.9	0.000341	-0.0066 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	355	11	3.1	0.000084	0.0091 ug/L
Ce	140	36	88	14	16.5	0.000016	0.0019 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.567
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.322
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.087
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS6

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:50:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 144

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS6.118

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5059	20	0.4	0.003826	1.0450	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	46869	121	0.3	-0.018327	-66.5157	ug/L
Sc	45	1256607	1281021	22738	1.8	1281021.284369		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3643	57	1.6	-0.001918	-0.1768	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	661	12	1.7	0.000229	0.0188	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	144	8	5.2	0.000125	0.0260	ug/L
Cu	63	85	301	7	2.5	0.000297	0.0385	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	720105	3623	0.5	720104.705991		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	102	7	7.0	-0.000001	-0.0350	ug/L
Se	82	-3	17	11	63.7	0.000006	0.1115	ug/L
Sr	88	94	622	28	4.5	0.000167	0.0168	ug/L
Y	89	67						ug/L
Mo	98	144	85	3	3.8	-0.000019	-0.0058	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3151795	30562	1.0	3151795.253416		ug/L
	Sn	120	17270	18904	566	3.0	0.000533	0.0475	ug/L
	Sb	121	224						ug/L
	Cs	133	20						ug/L
	Ba	138	86	592	30	5.1	0.000161	0.0186	ug/L
	Ce	140	36	145	8	5.2	0.000035	0.0037	ug/L
>	Tm	169	2730830						ug/L
	Tl	205	25						ug/L
	Pb	208	143						ug/L
	Bi	209	261						ug/L
	Th	232	199						ug/L
	U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.943
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.536
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.720
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS7

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:52:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 145

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS7.119

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7595	58	0.8	0.005732	1.6726	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	49397	255	0.5	-0.016830	-60.6894	ug/L
Sc	45	1256607	1297884	43028	3.3	1297883.752174		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4046	31	0.8	-0.001644	-0.1479	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	811	54	6.7	0.000338	0.0287	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	212	14	6.6	0.000212	0.0488	ug/L
Cu	63	85	445	36	8.0	0.000482	0.0624	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	739163	16397	2.2	739162.504425		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	100	5	5.3	-0.000002	-0.0634	ug/L
Se	82	-3	27	23	85.2	0.000009	0.1508	ug/L
Sr	88	94	915	47	5.1	0.000253	0.0272	ug/L
Y	89	67						ug/L
Mo	98	144	95	19	20.5	-0.000017	-0.0047	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3244270	155405	4.8	3244269.667079		ug/L
Sn	120	17270	19660	524	2.7	0.000600	0.0664	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	866	37	4.2	0.000240	0.0285	ug/L
Ce	140	36	215	21	9.6	0.000055	0.0057	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.285
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.223
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.646
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121724-BS8

Sample Description:

Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:54:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 146

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121724-BS8.120

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	12822	249	1.9	0.009622	2.9533	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	53009	283	0.5	-0.014636	-52.1571	ug/L
Sc	45	1256607	1315926	14056	1.1	1315925.528920		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4828	42	0.9	-0.001094	-0.0900	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1109	43	3.9	0.000556	0.0483	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	347	12	3.5	0.000384	0.0938	ug/L
Cu	63	85	645	21	3.3	0.000734	0.0951	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	755904	20103	2.7	755904.353347		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	118	3	2.2	0.000003	0.0519	ug/L
Se	82	-3	51	18	35.5	0.000016	0.2667	ug/L
Sr	88	94	1504	23	1.6	0.000433	0.0492	ug/L
Y	89	67						ug/L
Mo	98	144	158	8	5.1	0.000003	0.0053	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3251972	69308	2.1	3251971.766993		ug/L
Sn	120	17270	21429	369	1.7	0.001126	0.2145	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1358	46	3.4	0.000391	0.0473	ug/L
Ce	140	36	360	30	8.4	0.000100	0.0102	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.721
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.584
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.889
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV4

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:56:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV4.121

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	859221	29409	3.4	0.654898	215.3968	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	409193	10546	2.6	0.256980	1004.4920	ug/L
Sc	45	1256607	1313015	32810	2.5	1313015.457587		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	66385	1930	2.9	0.045837	4.8495	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	38833	1633	4.2	0.029319	2.6499	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	14902	524	3.5	0.019966	5.2207	ug/L
Cu	63	85	29958	835	2.8	0.040169	5.2018	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	743667	5531	0.7	743666.778286		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1709	76	4.5	0.000489	10.4773	ug/L
Se	82	-3	2315	15	0.7	0.000708	10.7607	ug/L
Sr	88	94	146055	4447	3.0	0.044600	5.4358	ug/L
Y	89	67						ug/L
Mo	98	144	3344	138	4.1	0.000976	0.5016	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3274102	53414	1.6	3274101.975265	ug/L
Sn	120	17270	47623	1118	2.3	0.009086	2.4555 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	65834	1560	2.4	0.020089	2.5002 ug/L
Ce	140	36	16690	443	2.7	0.005089	0.5078 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.489
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.858
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.589
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB4

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:58:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB4.122

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	810	12	1.4	0.000470	-0.0598	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	42635	194	0.5	-0.023674	-87.3173	ug/L
Sc	45	1256607	1366375	65613	4.8	1366374.724148		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2862	65	2.3	-0.002665	-0.2554	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	392	20	5.2	-0.000000	-0.0019	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	48	4	8.5	-0.000013	-0.0100	ug/L
Cu	63	85	93	13	13.7	0.000003	0.0003	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	758345	25856	3.4	758345.274066		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	86	4	4.7	-0.000008	-0.1792	ug/L
Se	82	-3	6	13	201.1	0.000003	0.0577	ug/L
Sr	88	94	137	12	8.6	0.000011	-0.0023	ug/L
Y	89	67						ug/L
Mo	98	144	49	14	28.6	-0.000031	-0.0120	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3356270	132985	4.0	3356270.011353		ug/L
Sn	120	17270	19542	828	4.2	0.000359	-0.0014	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	114	7	6.1	0.000007	-0.0005	ug/L
Ce	140	36	38	8	19.9	0.000000	0.0003	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.735
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.928
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.189
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	TI	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-BLK1

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:00:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 147

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-BLK1.123

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	348	13	3.8	0.000123	-0.1741	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	43272	404	0.9	-0.024291	-89.7169	ug/L
Sc	45	1256607	1413324	29616	2.1	1413324.307292		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2881	89	3.1	-0.002723	-0.2615	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	525	31	6.0	0.000084	0.0057	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	55	8	13.8	-0.000005	-0.0079	ug/L
Cu	63	85	115	1	1.0	0.000027	0.0035	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	779855	14255	1.8	779855.286026		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	92	12	13.1	-0.000006	-0.1446	ug/L
Se	82	-3	-3	9	336.0	-0.000000	0.0170	ug/L
Sr	88	94	138	19	14.0	0.000011	-0.0023	ug/L
Y	89	67						ug/L
Mo	98	144	39	5	13.1	-0.000034	-0.0137	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3399009	58715	1.7	3399008.873549		ug/L
Sn	120	17270	19237	521	2.7	0.000195	-0.0476	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	210	10	4.6	0.000035	0.0030	ug/L
Ce	140	36	50	3	5.3	0.000003	0.0006	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.471
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.961
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.541
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-BLK2

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:02:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 148

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-BLK2.124

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	230	19	8.2	0.000040	-0.2012	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44202	181	0.4	-0.023322	-85.9469	ug/L
Sc	45	1256607	1398872	10163	0.7	1398871.895191		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2941	69	2.3	-0.002660	-0.2549	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	531	23	4.4	0.000092	0.0064	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	142	5	3.2	0.000107	0.0214	ug/L
Cu	63	85	299	18	5.9	0.000266	0.0345	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	774249	4921	0.6	774249.364730		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	89	11	12.6	-0.000008	-0.1778	ug/L
Se	82	-3	5	7	133.7	0.000002	0.0510	ug/L
Sr	88	94	120	6	5.1	0.000005	-0.0030	ug/L
Y	89	67						ug/L
Mo	98	144	35	2	5.1	-0.000036	-0.0144	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3466536	18721	0.5	3466535.537597		ug/L
Sn	120	17270	19492	363	1.9	0.000158	-0.0579	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	157	5	3.2	0.000018	0.0009	ug/L
Ce	140	36	52	6	11.3	0.000004	0.0006	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.321
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.170
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.678
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-BLK3

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:04:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 149

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-BLK3.125

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	220	10	4.7	0.000032	-0.2040	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44484	334	0.8	-0.023408	-86.2828	ug/L
Sc	45	1256607	1412833	45192	3.2	1412832.937558		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2944	37	1.2	-0.002678	-0.2567	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	566	12	2.1	0.000114	0.0084	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	48	7	14.0	-0.000014	-0.0102	ug/L
Cu	63	85	83	2	1.8	-0.000012	-0.0015	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	768768	19884	2.6	768767.799193		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	91	9	9.4	-0.000006	-0.1530	ug/L
Se	82	-3	9	3	34.4	0.000003	0.0678	ug/L
Sr	88	94	123	13	10.4	0.000006	-0.0028	ug/L
Y	89	67						ug/L
Mo	98	144	33	2	6.2	-0.000036	-0.0145	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3409209	142903	4.2	3409208.619281		ug/L
Sn	120	17270	19691	223	1.1	0.000320	-0.0123	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	172	12	7.0	0.000023	0.0015	ug/L
Ce	140	36	46	5	10.3	0.000002	0.0005	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.432
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.397
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.864
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-BLK4

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:06:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 150

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-BLK4.126

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	297	4	1.2	0.000095	-0.1834	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45299	120	0.3	-0.021627	-79.3509	ug/L
Sc	45	1256607	1362756	64871	4.8	1362755.967325		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2994	57	1.9	-0.002564	-0.2447	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	607	7	1.1	0.000159	0.0125	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	43	2	4.8	-0.000018	-0.0114	ug/L
Cu	63	85	84	14	16.2	-0.000009	-0.0011	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	752741	26749	3.6	752740.621072		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	95	23	24.3	-0.000005	-0.1181	ug/L
Se	82	-3	-4	16	416.3	-0.000000	0.0106	ug/L
Sr	88	94	118	8	7.0	0.000005	-0.0029	ug/L
Y	89	67						ug/L
Mo	98	144	44	4	9.7	-0.000032	-0.0128	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3349372	149721	4.5	3349371.751473		ug/L
Sn	120	17270	18792	1002	5.3	0.000145	-0.0616	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	171	10	5.6	0.000024	0.0016	ug/L
Ce	140	36	47	6	12.2	0.000003	0.0005	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.447
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.138
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.971
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-BS1

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:08:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 151

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-BS1.127

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	269807	4892	1.8	0.188564	61.8662	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	274976	3235	1.2	0.137383	539.2324	ug/L
Sc	45	1256607	1432774	75983	5.3	1432773.750331		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	42441	1217	2.9	0.024915	2.6474	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	16583	469	2.8	0.011319	1.0219	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	6019	303	5.0	0.007609	1.9854	ug/L
Cu	63	85	12235	294	2.4	0.015497	2.0069	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	784551	29261	3.7	784551.276562		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	663	18	2.7	0.000158	3.3691	ug/L
Se	82	-3	812	50	6.2	0.000235	3.5768	ug/L
Sr	88	94	29449	617	2.1	0.008449	1.0268	ug/L
Y	89	67						ug/L
Mo	98	144	2752	136	4.9	0.000747	0.3846	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3480135	176180	5.1	3480135.198573		ug/L
Sn	120	17270	55962	859	1.5	0.010636	2.8919	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	26949	285	1.1	0.007727	0.9609	ug/L
Ce	140	36	6567	40	0.6	0.001879	0.1877	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.019
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.623
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.108
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-01RE2

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:10:04

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 152

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-01RE2.128

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6376041	160882	2.5	4.844831	7974.2114	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1605003	37842	2.4	1.164771	22680.0303	ug/L
Sc	45	1256607	1316461	22414	1.7	1316460.669935		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4125	64	1.6	-0.001630	-0.7320	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	222177	6578	3.0	0.168571	76.2237	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	279	10	3.6	0.000307	0.3683	ug/L
Cu	63	85	548	15	2.7	0.000631	0.4089	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	728599	3238	0.4	728598.598893		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	87	10	11.3	-0.000006	-0.7219	ug/L
Se	82	-3	18	26	141.0	0.000006	0.5735	ug/L
Sr	88	94	624425	8001	1.3	0.194659	118.6861	ug/L
Y	89	67						ug/L
Mo	98	144	172	14	8.3	0.000008	0.0389	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3208031	44951	1.4	3208031.245972		ug/L
Sn	120	17270	17303	187	1.1	-0.000070	-0.6112	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	156074	3973	2.5	0.048641	30.2791	ug/L
Ce	140	36	1569	43	2.7	0.000478	0.2395	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.763
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.734
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.499
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-02RE2

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:12:00

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 153

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-02RE2.129

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1067439	19730	1.8	0.789115	1297.9226	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	249685	2776	1.1	0.129680	2546.3269	ug/L
Sc	45	1256607	1352618	12686	0.9	1352618.081474		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3414	12	0.4	-0.002239	-1.0526	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	154377	1961	1.3	0.113855	51.4795	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	206	11	5.3	0.000197	0.2246	ug/L
Cu	63	85	385	16	4.2	0.000390	0.2526	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	755379	5766	0.8	755378.619272		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	96	6	6.3	-0.000004	-0.4761	ug/L
Se	82	-3	4	14	385.5	0.000002	0.2270	ug/L
Sr	88	94	54051	1969	3.6	0.016490	10.0375	ug/L
Y	89	67						ug/L
Mo	98	144	191	28	14.7	0.000013	0.0509	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3271539	98232	3.0	3271538.709851		ug/L
Sn	120	17270	17829	571	3.2	-0.000015	-0.5330	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	69240	945	1.4	0.021145	13.1592	ug/L
Ce	140	36	671	13	2.0	0.000194	0.0979	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.640
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.510
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.508
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-DUP1

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:13:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 154

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-DUP1.130

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1087117	16067	1.5	0.806297	1326.2079	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	251791	2388	0.9	0.131853	2588.6069	ug/L
Sc	45	1256607	1349147	40588	3.0	1349146.842104		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3382	86	2.5	-0.002254	-1.0605	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	153723	4302	2.8	0.113785	51.4479	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	202	14	6.7	0.000194	0.2213	ug/L
Cu	63	85	384	10	2.7	0.000392	0.2542	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	749240	9919	1.3	749240.144521		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	83	3	3.6	-0.000008	-0.9363	ug/L
Se	82	-3	-12	5	38.2	-0.000003	-0.1255	ug/L
Sr	88	94	54131	1686	3.1	0.016370	9.9646	ug/L
Y	89	67						ug/L
Mo	98	144	199	7	3.6	0.000015	0.0560	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3302733	78605	2.4	3302732.624625		ug/L
Sn	120	17270	17746	585	3.3	-0.000092	-0.6417	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	68966	1558	2.3	0.020863	12.9834	ug/L
Ce	140	36	706	22	3.1	0.000203	0.1023	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.364
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.644
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.495
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-MS1

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:15:52

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 155

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-MS1.131

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2163638	35946	1.7	1.603180	2637.9900	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1310999	10549	0.8	0.916775	17856.2258	ug/L
Sc	45	1256607	1349509	24127	1.8	1349509.006641		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	190721	3432	1.8	0.136564	71.9929	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	227559	1449	0.6	0.168376	76.1355	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	28567	665	2.3	0.037709	49.3301	ug/L
Cu	63	85	57867	1053	1.8	0.076424	49.4839	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	756068	18267	2.4	756068.117371		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3203	83	2.6	0.000928	99.4245	ug/L
Se	82	-3	4193	82	2.0	0.001259	95.6149	ug/L
Sr	88	94	190686	6220	3.3	0.057162	34.8398	ug/L
Y	89	67						ug/L
Mo	98	144	12674	223	1.8	0.003756	9.5977	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3333816	32282	1.0	3333815.806333	ug/L
Sn	120	17270	188405	2180	1.2	0.051055	71.3547 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	194757	2955	1.5	0.058392	36.3503 ug/L
Ce	140	36	32009	262	0.8	0.009591	4.7848 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.393
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.607
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.479
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-MSD1

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:17:47

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 156

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-MSD1.132

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2146842	30106	1.4	1.612157	2652.7674	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1319238	10810	0.8	0.935815	18226.5773	ug/L
Sc	45	1256607	1331608	4545	0.3	1331608.107004		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	192119	4913	2.6	0.139522	73.5496	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	231459	4692	2.0	0.173541	78.4713	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	28740	764	2.7	0.038668	50.5858	ug/L
Cu	63	85	58200	1476	2.5	0.078338	50.7230	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	742080	11792	1.6	742080.131345		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3158	52	1.6	0.000938	100.5820	ug/L
Se	82	-3	4349	119	2.7	0.001339	101.7083	ug/L
Sr	88	94	190970	6735	3.5	0.058735	35.7986	ug/L
Y	89	67						ug/L
Mo	98	144	13081	45	0.3	0.003979	10.1653	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3251258	54533	1.7	3251258.153901		ug/L
Sn	120	17270	191341	3651	1.9	0.053408	74.6674	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	193974	4436	2.3	0.059657	37.1377	ug/L
Ce	140	36	32174	969	3.0	0.009890	4.9339	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.969
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.634
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.867
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV5

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 20:19:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV5.133

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	823981	32920	4.0	0.637276	209.5951	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	402213	17172	4.3	0.256206	1001.4829	ug/L
Sc	45	1256607	1292424	18476	1.4	1292423.587145		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	64567	2940	4.6	0.045180	4.7804	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	37550	658	1.8	0.028766	2.5999	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	14189	453	3.2	0.019234	5.0291	ug/L
Cu	63	85	29177	858	2.9	0.039587	5.1264	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	734777	4014	0.5	734777.414879		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1607	78	4.8	0.000472	10.1053	ug/L
Se	82	-3	2142	77	3.6	0.000674	10.2424	ug/L
Sr	88	94	138770	3536	2.5	0.043570	5.3102	ug/L
Y	89	67						ug/L
Mo	98	144	3222	111	3.5	0.000967	0.4967	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3183514	29814	0.9	3183514.124946		ug/L
Sn	120	17270	46778	933	2.0	0.009232	2.4966	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	63171	1414	2.2	0.019820	2.4668	ug/L
Ce	140	36	16191	696	4.3	0.005076	0.5066	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.850
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.605
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.723
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB5

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 20:21:43

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB5.134

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	791	37	4.7	0.000471	-0.0595	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	42502	407	1.0	-0.022969	-84.5726	ug/L
Sc	45	1256607	1330260	19050	1.4	1330260.011540		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2765	54	2.0	-0.002684	-0.2574	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	400	8	2.0	0.000013	-0.0007	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	43	1	1.3	-0.000018	-0.0114	ug/L
Cu	63	85	93	15	15.8	0.000002	0.0003	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	755039	3661	0.5	755039.249646		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	95	9	9.5	-0.000004	-0.1087	ug/L
Se	82	-3	-2	16	728.8	0.000000	0.0201	ug/L
Sr	88	94	132	14	10.4	0.000010	-0.0023	ug/L
Y	89	67						ug/L
Mo	98	144	61	9	15.3	-0.000027	-0.0101	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3282858	62402	1.9	3282858.089917		ug/L
Sn	120	17270	18015	321	1.8	0.000024	-0.0958	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	112	12	10.4	0.000007	-0.0005	ug/L
Ce	140	36	30	4	13.3	-0.000002	0.0000	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.861
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.462
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.866
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-03RE2

Sample Description: 5x

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:23:43

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 157

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-03RE2.135

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7916035	158550	2.0	5.984489	9850.2498	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	3481061	60344	1.7	2.576828	50146.1609	ug/L
Sc	45	1256607	1322666	14949	1.1	1322665.551698		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3131	22	0.7	-0.002395	-1.1348	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	381188	4585	1.2	0.287908	130.1917	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	117	7	6.0	0.000081	0.0733	ug/L
Cu	63	85	241	29	12.2	0.000202	0.1312	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	745061	9786	1.3	745061.454405		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	99	14	14.1	-0.000003	-0.3961	ug/L
Se	82	-3	14	14	101.1	0.000005	0.4703	ug/L
Sr	88	94	884198	21955	2.5	0.269259	164.1776	ug/L
Y	89	67						ug/L
Mo	98	144	72	9	13.1	-0.000024	-0.0421	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3283141	31782	1.0	3283141.074418		ug/L
Sn	120	17270	18129	145	0.8	0.000058	-0.4309	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	372137	5805	1.6	0.113321	70.5508	ug/L
Ce	140	36	285	9	3.2	0.000076	0.0389	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.257
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.055
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.875
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-01RE3

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:25:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 426

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-01RE3.136

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	34134119	1519149	4.5	24.472609	8056.8671	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	7872045	340443	4.3	5.589217	21748.1114	ug/L
Sc	45	1256607	1394943	13235	0.9	1394943.248680		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	9007	216	2.4	0.001694	0.2034	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1177614	39816	3.4	0.843981	76.3331	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1387	52	3.8	0.001735	0.4477	ug/L
Cu	63	85	2711	56	2.1	0.003420	0.4429	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	765833	3351	0.4	765833.438015		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	124	13	10.7	0.000003	0.0567	ug/L
Se	82	-3	49	19	38.3	0.000015	0.2467	ug/L
Sr	88	94	3367027	92854	2.8	0.994432	121.2783	ug/L
Y	89	67						ug/L
Mo	98	144	792	15	1.8	0.000188	0.0998	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3386033	26115	0.8	3386032.598720		ug/L
Sn	120	17270	18616	250	1.3	0.000034	-0.0930	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	824742	37265	4.5	0.243585	30.3316	ug/L
Ce	140	36	8224	353	4.3	0.002418	0.2414	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.009
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.984
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.131
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-02RE3

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:27:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 427

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-02RE3.137

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5204137	135671	2.6	3.711238	1221.6310	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1117875	31975	2.9	0.742253	2892.3135	ug/L
Sc	45	1256607	1402332	10120	0.7	1402332.033464		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5543	99	1.8	-0.000810	-0.0601	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	799360	16941	2.1	0.569797	51.5342	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	880	50	5.7	0.001072	0.2741	ug/L
Cu	63	85	1773	106	6.0	0.002191	0.2838	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	766835	1842	0.2	766835.063957		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	96	9	8.9	-0.000005	-0.1196	ug/L
Se	82	-3	13	3	25.7	0.000005	0.0900	ug/L
Sr	88	94	281385	6808	2.4	0.083129	10.1349	ug/L
Y	89	67						ug/L
Mo	98	144	927	18	1.9	0.000228	0.1202	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3383605	50338	1.5	3383604.673721		ug/L
Sn	120	17270	17629	58	0.3	-0.000253	-0.1738	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	352322	9457	2.7	0.104091	12.9608	ug/L
Ce	140	36	3405	62	1.8	0.000995	0.0995	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.597
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.125
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.054
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-DUP2

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:29:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 428

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-DUP2.138

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5339360	115883	2.2	3.770083	1241.0045	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1155542	24110	2.1	0.761021	2965.3265	ug/L
Sc	45	1256607	1416210	29730	2.1	1416209.845163		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5673	118	2.1	-0.000757	-0.0545	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	809511	19549	2.4	0.571291	51.6693	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	888	51	5.7	0.001062	0.2715	ug/L
Cu	63	85	1837	52	2.8	0.002234	0.2893	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	780119	7728	1.0	780118.808808		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	89	14	15.2	-0.000007	-0.1686	ug/L
Se	82	-3	32	14	43.6	0.000010	0.1685	ug/L
Sr	88	94	284806	3801	1.3	0.082992	10.1182	ug/L
Y	89	67						ug/L
Mo	98	144	923	31	3.3	0.000223	0.1177	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3430781	51249	1.5	3430781.061000		ug/L
Sn	120	17270	17425	521	3.0	-0.000386	-0.2111	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	359228	6981	1.9	0.104701	13.0367	ug/L
Ce	140	36	3470	79	2.3	0.001001	0.1001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.701
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.998
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.547
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-MS2

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:31:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 429

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-MS2.139

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5418166	86475	1.6	3.966034	1305.5172	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1497787	18313	1.2	1.041452	4056.2690	ug/L
Sc	45	1256607	1366111	9007	0.7	1366111.245787		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	81219	1119	1.4	0.054688	5.7811	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	783421	10569	1.3	0.573216	51.8435	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	12231	346	2.8	0.015978	4.1765	ug/L
Cu	63	85	24487	421	1.7	0.032020	4.1465	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	761946	5248	0.7	761946.134086		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1225	40	3.3	0.000330	7.0734	ug/L
Se	82	-3	1646	76	4.6	0.000489	7.4461	ug/L
Sr	88	94	323706	2171	0.7	0.096068	11.7130	ug/L
Y	89	67						ug/L
Mo	98	144	5947	175	2.9	0.001720	0.8810	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3368807	34757	1.0	3368807.455143		ug/L
Sn	120	17270	84573	724	0.9	0.019643	5.4276	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	395271	1731	0.4	0.117314	14.6074	ug/L
Ce	140	36	15577	71	0.5	0.004613	0.4604	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.714
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.436
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.586
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121703-MSD2

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:33:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 430

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121703-MSD2.140

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5462557	161727	3.0	3.990863	1313.6916	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1492778	45050	3.0	1.035705	4033.9096	ug/L
Sc	45	1256607	1368849	6684	0.5	1368848.987383		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	80794	1850	2.3	0.054264	5.7364	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	779213	18670	2.4	0.569005	51.4625	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	12165	496	4.1	0.015946	4.1683	ug/L
Cu	63	85	24418	575	2.4	0.032044	4.1496	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	759151	6425	0.8	759151.320481		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1202	44	3.6	0.000325	6.9612	ug/L
Se	82	-3	1602	69	4.3	0.000478	7.2745	ug/L
Sr	88	94	322156	6545	2.0	0.096009	11.7057	ug/L
Y	89	67						ug/L
Mo	98	144	6047	213	3.5	0.001757	0.8997	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3354732	46735	1.4	3354732.052105		ug/L
Sn	120	17270	84725	1603	1.9	0.019791	5.4693	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	386158	6920	1.8	0.115079	14.3291	ug/L
Ce	140	36	15633	618	4.0	0.004648	0.4639	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.932
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.042
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.140
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233033-03RE3

Sample Description:

Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:35:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 431

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1233033-03RE3.141

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	38532792	1142607	3.0	29.162293	9600.8451	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	16763333	293326	1.7	12.632032	49146.2731	ug/L
Sc	45	1256607	1321494	11616	0.9	1321493.933339		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4558	82	1.8	-0.001313	-0.1131	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1790600	57409	3.2	1.354960	122.5494	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	425	30	7.0	0.000507	0.1260	ug/L
Cu	63	85	924	20	2.1	0.001144	0.1482	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	730321	309	0.0	730321.488927		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	131	13	10.1	0.000006	0.1167	ug/L
Se	82	-3	25	20	81.5	0.000008	0.1438	ug/L
Sr	88	94	4224232	117394	2.8	1.269391	154.8125	ug/L
Y	89	67						ug/L
Mo	98	144	179	15	8.4	0.000008	0.0079	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3327299	54849	1.6	3327298.960346	ug/L
Sn	120	17270	17987	722	4.0	-0.000060	-0.1193 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	1856491	75365	4.1	0.557781	69.4575 ug/L
Ce	140	36	1499	358	23.9	0.000439	0.0440 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.164
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.976
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.272
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV6

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 20:37:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV6.142

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	825739	14899	1.8	0.630103	207.2332	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	399409	7127	1.8	0.249921	977.0293	ug/L
Sc	45	1256607	1310184	18404	1.4	1310184.216677		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	64314	788	1.2	0.044329	4.6907	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	37452	400	1.1	0.028303	2.5580	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	14066	390	2.8	0.018931	4.9496	ug/L
Cu	63	85	28467	685	2.4	0.038348	4.9659	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	740043	5435	0.7	740042.991488		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1638	54	3.3	0.000466	9.9830	ug/L
Se	82	-3	2186	52	2.4	0.000667	10.1408	ug/L
Sr	88	94	138588	3205	2.3	0.042204	5.1436	ug/L
Y	89	67						ug/L
Mo	98	144	3129	51	1.6	0.000908	0.4668	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3282866	60033	1.8	3282866.292366		ug/L
Sn	120	17270	46508	181	0.4	0.008706	2.3484	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	64091	761	1.2	0.019501	2.4270	ug/L
Ce	140	36	16554	297	1.8	0.005031	0.5021	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.264
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.347
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.867
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB6

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 20:39:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB6.143

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	786	18	2.3	0.000473	-0.0588	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	42591	386	0.9	-0.022565	-83.0002	ug/L
Sc	45	1256607	1316622	30328	2.3	1316622.275234		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2881	69	2.4	-0.002575	-0.2459	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	416	15	3.6	0.000029	0.0007	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	46	9	19.0	-0.000013	-0.0101	ug/L
Cu	63	85	90	4	4.6	0.000002	0.0003	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	736282	10197	1.4	736282.202663		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	87	5	5.4	-0.000006	-0.1531	ug/L
Se	82	-3	10	12	118.3	0.000004	0.0757	ug/L
Sr	88	94	115	4	3.5	0.000005	-0.0030	ug/L
Y	89	67						ug/L
Mo	98	144	51	18	35.3	-0.000030	-0.0116	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3266835	22154	0.7	3266834.605165		ug/L
Sn	120	17270	17151	641	3.7	-0.000215	-0.1630	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	105	12	11.1	0.000005	-0.0007	ug/L
Ce	140	36	43	8	17.9	0.000002	0.0004	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.776
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.817
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.359
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-BLK1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:41:13

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 158

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-BLK1.144

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	953	55	5.8	0.000581	-0.2339	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	43367	137	0.3	-0.022872	-841.9488	ug/L
Sc	45	1256607	1353177	10229	0.8	1353177.266267		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2846	24	0.8	-0.002659	-2.5474	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	567	54	9.5	0.000132	0.1000	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	60	6	10.4	0.000003	-0.0584	ug/L
Cu	63	85	110	5	4.1	0.000024	0.0309	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	761609	3114	0.4	761609.486640		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	93	5	5.3	-0.000006	-1.3462	ug/L
Se	82	-3	-5	18	349.2	-0.000001	0.0571	ug/L
Sr	88	94	134	5	3.8	0.000010	-0.0238	ug/L
Y	89	67						ug/L
Mo	98	144	35	3	10.1	-0.000035	-0.1430	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3358362	29313	0.9	3358361.635931		ug/L
Sn	120	17270	18595	283	1.5	0.000073	-0.8200	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	139	12	8.3	0.000014	0.0042	ug/L
Ce	140	36	35	11	32.2	-0.000001	0.0017	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.685
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.388
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.255
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-BLK2

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:43:09

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 159

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-BLK2.145

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1649	24	1.4	0.001091	1.4480	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	43990	438	1.0	-0.022501	-827.5203	ug/L
Sc	45	1256607	1357178	21606	1.6	1357178.463951		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2793	42	1.5	-0.002704	-2.5952	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	506	23	4.5	0.000086	0.0583	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	48	5	11.0	-0.000013	-0.1016	ug/L
Cu	63	85	98	10	10.2	0.000007	0.0098	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	769741	10467	1.4	769741.213106		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	88	11	12.0	-0.000007	-1.6716	ug/L
Se	82	-3	-5	3	58.7	-0.000001	0.0599	ug/L
Sr	88	94	156	8	4.8	0.000016	-0.0160	ug/L
Y	89	67						ug/L
Mo	98	144	38	5	12.9	-0.000034	-0.1384	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3373922	6150	0.2	3373921.682296	ug/L
Sn	120	17270	18718	339	1.8	0.000084	-0.7892 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	156	24	15.2	0.000019	0.0103 ug/L
Ce	140	36	44	7	16.6	0.000002	0.0043 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.003
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.535
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.748
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-BLK3

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:45:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 201

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-BLK3.146

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2610	78	3.0	0.001673	3.3618	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45412	265	0.6	-0.023652	-872.2939	ug/L
Sc	45	1256607	1452785	28451	2.0	1452784.671309		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2824	11	0.4	-0.002818	-2.7152	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	647	29	4.5	0.000158	0.1240	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	56	6	10.7	-0.000005	-0.0803	ug/L
Cu	63	85	94	3	3.2	-0.000002	-0.0028	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	799564	4942	0.6	799563.826654		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	98	13	13.6	-0.000006	-1.3622	ug/L
Se	82	-3	10	17	169.1	0.000004	0.7315	ug/L
Sr	88	94	220	3	1.1	0.000032	0.0031	ug/L
Y	89	67						ug/L
Mo	98	144	36	3	9.3	-0.000036	-0.1444	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3548027	11385	0.3	3548026.871616		ug/L
Sn	120	17270	19321	347	1.8	-0.000019	-1.0780	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	230	17	7.4	0.000038	0.0334	ug/L
Ce	140	36	39	5	11.8	-0.000000	0.0022	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.612
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.740
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.256
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-BLK4

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:47:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-BLK4.147

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	3744	160	4.3	0.002521	6.1561	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44878	450	1.0	-0.023210	-855.1226	ug/L
Sc	45	1256607	1415303	6778	0.5	1415303.321962		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2799	57	2.0	-0.002785	-2.6799	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	564	16	2.8	0.000111	0.0813	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	54	5	9.4	-0.000007	-0.0860	ug/L
Cu	63	85	103	13	12.4	0.000011	0.0146	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	786304	1931	0.2	786303.916073		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	88	14	16.0	-0.000008	-1.9081	ug/L
Se	82	-3	14	8	54.7	0.000005	0.9113	ug/L
Sr	88	94	177	27	15.2	0.000021	-0.0108	ug/L
Y	89	67						ug/L
Mo	98	144	36	9	25.8	-0.000035	-0.1431	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3509393	14517	0.4	3509393.335307		ug/L
Sn	120	17270	19253	254	1.3	0.000022	-0.9633	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	168	14	8.3	0.000021	0.0121	ug/L
Ce	140	36	38	5	12.0	-0.000001	0.0019	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.629
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.870
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.034
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-BS1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:48:57

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 203

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-BS1.148

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2239	65	2.9	0.001448	2.6208	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	44071	92	0.2	-0.023998	-885.7562	ug/L
Sc	45	1256607	1425288	14700	1.0	1425288.288759		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2732	49	1.8	-0.002846	-2.7439	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	558	21	3.8	0.000105	0.0755	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	6221	242	3.9	0.007825	20.4201	ug/L
Cu	63	85	12496	659	5.3	0.015752	20.3981	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	787189	9178	1.2	787188.732796		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	364	7	1.9	0.000070	14.8983	ug/L
Se	82	-3	415	7	1.6	0.000119	18.1812	ug/L
Sr	88	94	166	7	4.2	0.000017	-0.0149	ug/L
Y	89	67						ug/L
Mo	98	144	30	4	13.4	-0.000037	-0.1516	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3523182	27817	0.8	3523181.652618		ug/L
Sn	120	17270	20193	1190	5.9	0.000269	-0.2674	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	177	11	6.2	0.000023	0.0153	ug/L
Ce	140	36	43	3	7.2	0.000001	0.0033	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.424
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.995
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.470
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-SRM1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:50:52

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 204

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-SRM1.149

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2335532	57083	2.4	1.571225	5170.7751	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	654052	14750	2.3	0.385120	15029.8431	ug/L
Sc	45	1256607	1486249	11267	0.8	1486249.494620		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	14679	623	4.2	0.005112	5.6314	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	32744	1376	4.2	0.021740	19.6440	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	29952	985	3.3	0.036270	94.8935	ug/L
Cu	63	85	61067	2374	3.9	0.073981	95.8043	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	824063	3281	0.4	824063.102500		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	474	13	2.6	0.000100	21.3015	ug/L
Se	82	-3	550	24	4.4	0.000155	23.7403	ug/L
Sr	88	94	175271	5361	3.1	0.049195	59.9628	ug/L
Y	89	67						ug/L
Mo	98	144	1272	7	0.5	0.000312	1.6264	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3560302	32435	0.9	3560301.837027		ug/L
Sn	120	17270	20808	787	3.8	0.000380	0.0457	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	72335	1604	2.2	0.020290	25.2531	ug/L
Ce	140	36	8908	280	3.1	0.002491	2.4868	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	118.275
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	116.194
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.644
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-SRM2

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:52:48

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 205

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-SRM2.150

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	10429888	524080	5.0	7.329880	24129.9134	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	3250530	85156	2.6	2.228561	86743.9283	ug/L
Sc	45	1256607	1424840	39332	2.8	1424839.783390		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4602	247	5.4	-0.001528	-1.3573	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	922900	21272	2.3	0.648015	586.0872	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	6898	279	4.0	0.008624	22.5132	ug/L
Cu	63	85	13646	476	3.5	0.017092	22.1345	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	793057	8327	1.1	793056.926741		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	147	14	9.8	0.000009	1.7819	ug/L
Se	82	-3	44	20	44.1	0.000013	2.2089	ug/L
Sr	88	94	1000184	39150	3.9	0.286239	349.0632	ug/L
Y	89	67						ug/L
Mo	98	144	222	6	2.6	0.000018	0.1283	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3495798	54344	1.6	3495797.775555		ug/L
Sn	120	17270	20661	447	2.2	0.000447	0.2337	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1913998	52701	2.8	0.547729	682.0570	ug/L
Ce	140	36	207044	8326	4.0	0.059249	59.1058	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.388
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.822
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.604
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-01

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:54:43

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 206

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-01.151

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	46050	1777	3.9	0.028101	90.3725	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	68776	5577	8.1	-0.012416	-435.1811	ug/L
Sc	45	1256607	1679758	354935	21.1	1679757.505839		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2855	47	1.6	-0.003019	-2.9263	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4525	230	5.1	0.002498	2.2400	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1606	574	35.7	0.001790	4.6189	ug/L
Cu	63	85	3212	1274	39.7	0.003630	4.7005	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	933715	217226	23.3	933715.055654		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	86	15	17.2	-0.000011	-2.4838	ug/L
Se	82	-3	4	5	131.8	0.000002	0.4643	ug/L
Sr	88	94	8878	2267	25.5	0.002297	2.7654	ug/L
Y	89	67						ug/L
Mo	98	144	51	4	7.7	-0.000033	-0.1297	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4085222	955440	23.4	4085221.682649		ug/L
Sn	120	17270	21645	4384	20.3	-0.000138	-1.4145	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3513	501	14.3	0.000845	1.0390	ug/L
Ce	140	36	225	282	125.5	0.000036	0.0382	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	133.674
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	131.655
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	129.252
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-02

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:56:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 207

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-02.152

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	54511	8233	15.1	0.037220	120.3952	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	78559	5714	7.3	-0.001193	1.4074	ug/L
Sc	45	1256607	1465960	58921	4.0	1465959.813019		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2870	27	0.9	-0.002802	-2.6984	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4124	515	12.5	0.002536	2.2747	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2424	313	12.9	0.002915	7.5646	ug/L
Cu	63	85	4960	673	13.6	0.006000	7.7700	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	815284	41135	5.0	815283.994028		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	110	15	13.7	-0.000002	-0.5533	ug/L
Se	82	-3	24	5	19.2	0.000007	1.3050	ug/L
Sr	88	94	18172	2360	13.0	0.005135	6.2264	ug/L
Y	89	67						ug/L
Mo	98	144	58	7	11.4	-0.000029	-0.1122	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3528608	114366	3.2	3528607.572845		ug/L
Sn	120	17270	18985	387	2.0	-0.000079	-1.2480	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1567	170	10.8	0.000418	0.5072	ug/L
Ce	140	36	60	11	17.8	0.000006	0.0081	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.660
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.956
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.642
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-03

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:58:32

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 208

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-03.153

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	71033	1888	2.7	0.049864	162.0213	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	93368	1367	1.5	0.010800	467.9450	ug/L
Sc	45	1256607	1421130	40554	2.9	1421129.539307		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2786	35	1.3	-0.002801	-2.6970	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	10925	411	3.8	0.007400	6.6743	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2452	80	3.2	0.003070	7.9718	ug/L
Cu	63	85	4999	204	4.1	0.006293	8.1495	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	779196	11592	1.5	779195.631837		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	99	5	5.2	-0.000004	-0.9872	ug/L
Se	82	-3	3	1	52.6	0.000002	0.4204	ug/L
Sr	88	94	25634	526	2.1	0.007517	9.1315	ug/L
Y	89	67						ug/L
Mo	98	144	56	9	15.3	-0.000029	-0.1114	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3398004	97810	2.9	3398004.073507		ug/L
Sn	120	17270	18109	568	3.1	-0.000135	-1.4044	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3202	167	5.2	0.000915	1.1260	ug/L
Ce	140	36	135	13	9.7	0.000028	0.0308	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.093
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.868
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.510
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV7

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:00:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV7.154

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7762056	197257	2.5	5.855158	1927.4707	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	767406	25783	3.4	0.523869	2042.7512	ug/L
Sc	45	1256607	1325801	29461	2.2	1325800.738211		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	126875	5653	4.5	0.090911	9.5936	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	381481	17878	4.7	0.287352	25.9880	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	28819	960	3.3	0.038806	10.1533	ug/L
Cu	63	85	58200	2088	3.6	0.078388	10.1511	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	741222	13150	1.8	741221.996868		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3264	49	1.5	0.000985	21.1205	ug/L
Se	82	-3	4354	164	3.8	0.001359	20.6406	ug/L
Sr	88	94	278829	2997	1.1	0.086959	10.6020	ug/L
Y	89	67						ug/L
Mo	98	144	31514	522	1.7	0.009787	4.9959	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3206465	63746	2.0	3206464.578151		ug/L
Sn	120	17270	75231	739	1.0	0.018004	4.9663	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	623708	14134	2.3	0.194562	24.2269	ug/L
Ce	140	36	30934	1048	3.4	0.009639	0.9618	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.506
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.513
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.449
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB7

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:02:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB7.155

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	825	48	5.9	0.000506	-0.0480	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	41335	100	0.2	-0.023394	-86.2248	ug/L
Sc	45	1256607	1311481	28349	2.2	1311480.587892		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2629	57	2.2	-0.002758	-0.2651	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	418	16	3.7	0.000032	0.0010	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	45	8	17.8	-0.000014	-0.0104	ug/L
Cu	63	85	77	9	11.7	-0.000015	-0.0020	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	733339	14426	2.0	733338.542884		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	85	13	15.0	-0.000006	-0.1518	ug/L
Se	82	-3	11	12	108.6	0.000004	0.0824	ug/L
Sr	88	94	109	7	6.7	0.000005	-0.0030	ug/L
Y	89	67						ug/L
Mo	98	144	167	14	8.2	0.000007	0.0073	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3174549	58781	1.9	3174548.847837		ug/L
Sn	120	17270	16022	699	4.4	-0.000419	-0.2204	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	105	5	4.9	0.000006	-0.0006	ug/L
Ce	140	36	31	8	26.4	-0.000002	0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.367
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.402
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.440
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-04

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:04:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 209

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-04.156

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	55494	1909	3.4	0.040151	130.0448	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	77162	1142	1.5	0.001099	90.5813	ug/L
Sc	45	1256607	1377784	39568	2.9	1377783.988677		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2712	46	1.7	-0.002793	-2.6889	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4052	108	2.7	0.002655	2.3825	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2050	61	3.0	0.002600	6.7411	ug/L
Cu	63	85	4214	98	2.3	0.005378	6.9649	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	766464	12865	1.7	766464.454748		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	98	10	10.4	-0.000004	-0.9373	ug/L
Se	82	-3	17	13	75.3	0.000006	1.0657	ug/L
Sr	88	94	7687	76	1.0	0.002294	2.7618	ug/L
Y	89	67						ug/L
Mo	98	144	123	16	13.0	-0.000008	-0.0053	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3308347	62686	1.9	3308347.201186		ug/L
Sn	120	17270	17229	617	3.6	-0.000256	-1.7470	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2143	77	3.6	0.000620	0.7591	ug/L
Ce	140	36	72	6	7.6	0.000011	0.0130	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.643
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.073
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.673
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-05

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:06:23

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 210

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-05.157

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	84748	2277	2.7	0.060366	196.5985	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	118025	2602	2.2	0.029330	1188.8252	ug/L
Sc	45	1256607	1401114	42182	3.0	1401114.496225		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3007	46	1.5	-0.002615	-2.5009	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7238	252	3.5	0.004878	4.3930	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1982	43	2.2	0.002450	6.3475	ug/L
Cu	63	85	3880	84	2.2	0.004825	6.2481	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	784561	8228	1.0	784560.631753		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	105	8	7.4	-0.000002	-0.6415	ug/L
Se	82	-3	8	17	202.5	0.000003	0.6517	ug/L
Sr	88	94	15132	328	2.2	0.004404	5.3347	ug/L
Y	89	67						ug/L
Mo	98	144	145	18	12.1	-0.000003	0.0215	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3413322	53546	1.6	3413322.147617		ug/L
Sn	120	17270	17658	184	1.0	-0.000290	-1.8424	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	4695	8	0.2	0.001348	1.6657	ug/L
Ce	140	36	94	13	13.5	0.000016	0.0186	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.500
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.624
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.994
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-06

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:08:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 211

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-06.158

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	55141	2232	4.0	0.038765	125.4795	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	104722	2083	2.0	0.018964	785.5760	ug/L
Sc	45	1256607	1417614	41152	2.9	1417614.260963		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2706	73	2.7	-0.002852	-2.7504	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6051	280	4.6	0.003980	3.5806	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2389	145	6.1	0.002981	7.7383	ug/L
Cu	63	85	4668	163	3.5	0.005855	7.5826	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	781209	16984	2.2	781209.007504		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	111	19	17.3	-0.000001	-0.4122	ug/L
Se	82	-3	26	17	63.9	0.000008	1.4585	ug/L
Sr	88	94	32406	1488	4.6	0.009349	11.3658	ug/L
Y	89	67						ug/L
Mo	98	144	115	9	8.0	-0.000012	-0.0254	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3454486	114767	3.3	3454486.139542		ug/L
Sn	120	17270	99692	2692	2.7	0.023399	64.8515	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3629	201	5.5	0.001023	1.2604	ug/L
Ce	140	36	82	10	12.7	0.000012	0.0148	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.813
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.152
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.297
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-07

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:10:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 212

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-07.159

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	98051	4143	4.2	0.068250	222.5540	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	108586	2368	2.2	0.020786	856.4286	ug/L
Sc	45	1256607	1434599	28380	2.0	1434599.431610		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2709	45	1.7	-0.002874	-2.7736	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	18027	547	3.0	0.012282	11.0891	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2421	123	5.1	0.002914	7.5639	ug/L
Cu	63	85	4881	177	3.6	0.005907	7.6501	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	809696	19686	2.4	809696.125794		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	107	10	9.5	-0.000002	-0.6855	ug/L
Se	82	-3	23	8	32.6	0.000007	1.3038	ug/L
Sr	88	94	62381	2363	3.8	0.017824	21.7026	ug/L
Y	89	67						ug/L
Mo	98	144	66	12	18.6	-0.000027	-0.0988	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3493280	73945	2.1	3493279.623613		ug/L
Sn	120	17270	19186	488	2.5	0.000028	-0.9466	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	7487	92	1.2	0.002117	2.6222	ug/L
Ce	140	36	132	12	8.8	0.000026	0.0288	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.164
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.168
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.524
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-08

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:12:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 213

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-08.160

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	181307	3503	1.9	0.125060	409.5876	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	135033	2456	1.8	0.038321	1538.5850	ug/L
Sc	45	1256607	1448304	15285	1.1	1448303.731753		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2900	71	2.5	-0.002760	-2.6542	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	31449	713	2.3	0.021427	19.3609	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2656	62	2.4	0.003305	8.5873	ug/L
Cu	63	85	5289	56	1.1	0.006613	8.5634	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	785628	11822	1.5	785627.657055		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	114	13	11.6	-0.000000	-0.1711	ug/L
Se	82	-3	25	28	109.9	0.000008	1.3980	ug/L
Sr	88	94	94255	1394	1.5	0.027348	33.3184	ug/L
Y	89	67						ug/L
Mo	98	144	55	4	7.1	-0.000030	-0.1144	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3443195	52602	1.5	3443195.468049		ug/L
Sn	120	17270	21020	76	0.4	0.000642	0.7809	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	8413	291	3.5	0.002416	2.9954	ug/L
Ce	140	36	426	27	6.3	0.000112	0.1146	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.255
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.775
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.939
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-09

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:14:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 214

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-09.161

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	54974	1979	3.6	0.038551	124.7759	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	89242	1139	1.3	0.007862	353.6699	ug/L
Sc	45	1256607	1421606	21950	1.5	1421605.836943		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2850	36	1.3	-0.002758	-2.6512	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	24249	1109	4.6	0.016769	15.1479	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2221	96	4.3	0.002730	7.0811	ug/L
Cu	63	85	4428	155	3.5	0.005473	7.0882	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	791473	20135	2.5	791472.519931		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	111	8	7.2	-0.000001	-0.3069	ug/L
Se	82	-3	8	7	88.6	0.000003	0.6727	ug/L
Sr	88	94	13240	369	2.8	0.003854	4.6638	ug/L
Y	89	67						ug/L
Mo	98	144	65	5	7.2	-0.000027	-0.0985	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3408938	48863	1.4	3408937.938454		ug/L
Sn	120	17270	18408	277	1.5	-0.000064	-1.2043	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3642	58	1.6	0.001041	1.2831	ug/L
Ce	140	36	164	5	3.0	0.000037	0.0391	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.130
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.599
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.855
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-10

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:16:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 215

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-10.162

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	178699	5631	3.2	0.123500	404.4536	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	150593	2658	1.8	0.049277	1964.8109	ug/L
Sc	45	1256607	1445283	27822	1.9	1445283.466903		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2702	25	0.9	-0.002893	-2.7933	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	12048	177	1.5	0.008050	7.2619	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2091	105	5.0	0.002583	6.6951	ug/L
Cu	63	85	4142	128	3.1	0.005148	6.6664	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	786301	22171	2.8	786300.574650		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	99	5	4.5	-0.000004	-1.0512	ug/L
Se	82	-3	25	5	20.2	0.000008	1.3817	ug/L
Sr	88	94	25907	914	3.5	0.007526	9.1424	ug/L
Y	89	67						ug/L
Mo	98	144	66	17	25.6	-0.000027	-0.0978	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3428173	72636	2.1	3428172.682115		ug/L
Sn	120	17270	25782	519	2.0	0.002057	4.7655	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	5527	60	1.1	0.001585	1.9606	ug/L
Ce	140	36	97	8	7.9	0.000017	0.0193	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.015
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.870
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.464
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-DUP1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:17:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 216

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-DUP1.163

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	251026	6193	2.5	0.174648	572.8476	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	191592	3594	1.9	0.078471	3100.5071	ug/L
Sc	45	1256607	1436386	6064	0.4	1436385.679567		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2749	63	2.3	-0.002849	-2.7474	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	16545	213	1.3	0.011231	10.1394	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2700	79	2.9	0.003368	8.7502	ug/L
Cu	63	85	5410	95	1.8	0.006782	8.7827	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	784096	12965	1.7	784095.788041		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	101	7	7.0	-0.000004	-0.9829	ug/L
Se	82	-3	31	13	42.5	0.000010	1.6529	ug/L
Sr	88	94	35323	655	1.9	0.010240	12.4533	ug/L
Y	89	67						ug/L
Mo	98	144	92	6	6.5	-0.000019	-0.0592	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3439632	63124	1.8	3439631.503819		ug/L
Sn	120	17270	28332	496	1.7	0.002773	6.7820	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	7655	162	2.1	0.002199	2.7245	ug/L
Ce	140	36	110	5	4.3	0.000021	0.0232	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.307
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.559
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.827
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MS1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:19:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 217

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MS1.164

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	170371	7623	4.5	0.118268	387.2255	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	136317	4329	3.2	0.039786	1595.5718	ug/L
Sc	45	1256607	1440311	29474	2.0	1440310.639651		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2742	68	2.5	-0.002858	-2.7574	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	11675	466	4.0	0.007824	7.0578	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	16781	1067	6.4	0.020738	54.2289	ug/L
Cu	63	85	34114	1697	5.0	0.042187	54.6312	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	806954	14016	1.7	806954.303995		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	383	19	4.8	0.000076	16.2187	ug/L
Se	82	-3	420	38	8.9	0.000121	18.5611	ug/L
Sr	88	94	24055	1309	5.4	0.006858	8.3277	ug/L
Y	89	67						ug/L
Mo	98	144	74	5	7.4	-0.000024	-0.0867	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3495654	69363	2.0	3495654.232692		ug/L
Sn	120	17270	27940	431	1.5	0.002531	6.1010	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	5147	268	5.2	0.001446	1.7876	ug/L
Ce	140	36	92	2	1.7	0.000015	0.0176	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.619
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.782
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.599
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MSD1

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:21:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 218

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MSD1.165

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	256870	7926	3.1	0.181086	594.0412	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	202744	3524	1.7	0.088117	3475.7526	ug/L
Sc	45	1256607	1417372	16738	1.2	1417372.416338		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2748	104	3.8	-0.002823	-2.7199	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	17757	581	3.3	0.012240	11.0516	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	8274	230	2.8	0.010480	27.3716	ug/L
Cu	63	85	16806	659	3.9	0.021320	27.6096	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	783724	15211	1.9	783723.971125		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	396	27	6.7	0.000084	17.9116	ug/L
Se	82	-3	404	29	7.2	0.000121	18.4781	ug/L
Sr	88	94	35787	815	2.3	0.010574	12.8606	ug/L
Y	89	67						ug/L
Mo	98	144	85	6	6.9	-0.000020	-0.0669	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3374639	63529	1.9	3374639.396611		ug/L
Sn	120	17270	25635	1091	4.3	0.002130	4.9721	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	8080	184	2.3	0.002367	2.9339	ug/L
Ce	140	36	105	3	2.9	0.000020	0.0222	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.794
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.506
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.770
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV8

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:23:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV8.166

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7882467	35832	0.5	5.709116	1879.3894	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	776154	4267	0.5	0.507189	1977.8632	ug/L
Sc	45	1256607	1381603	43909	3.2	1381603.009200		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	127404	1965	1.5	0.087483	9.2328	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	382461	6077	1.6	0.276717	25.0262	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	29064	317	1.1	0.038016	9.9464	ug/L
Cu	63	85	58602	618	1.1	0.076675	9.9293	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	763089	6535	0.9	763089.454120		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3256	72	2.2	0.000938	20.1002	ug/L
Se	82	-3	4413	113	2.6	0.001317	20.0021	ug/L
Sr	88	94	284563	6677	2.3	0.084833	10.3427	ug/L
Y	89	67						ug/L
Mo	98	144	31916	608	1.9	0.009471	4.8345	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3354092	66499	2.0	3354092.261058		ug/L
Sn	120	17270	76443	319	0.4	0.017332	4.7771	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	619220	1681	0.3	0.184644	22.9918	ug/L
Ce	140	36	31492	579	1.8	0.009378	0.9357	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.947
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.597
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.120
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB8

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:25:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB8.167

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1008	58	5.8	0.000656	0.0015	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	40055	284	0.7	-0.023947	-88.3760	ug/L
Sc	45	1256607	1295481	66346	5.1	1295480.535819		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2522	30	1.2	-0.002813	-0.2710	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	402	22	5.5	0.000024	0.0003	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	52	8	16.1	-0.000006	-0.0083	ug/L
Cu	63	85	86	9	9.9	-0.000004	-0.0005	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	743436	22238	3.0	743436.487994		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	90	9	10.2	-0.000005	-0.1143	ug/L
Se	82	-3	5	18	391.9	0.000002	0.0534	ug/L
Sr	88	94	119	9	7.1	0.000008	-0.0026	ug/L
Y	89	67						ug/L
Mo	98	144	165	21	12.7	0.000007	0.0073	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3158903	124486	3.9	3158902.675754	ug/L
Sn	120	17270	17495	2151	12.3	0.000071	-0.0826 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	114	10	8.9	0.000009	-0.0002 ug/L
Ce	140	36	35	2	4.9	-0.000000	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.094
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.826
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	99.945
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-11

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:27:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 219

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-11.168

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	37956	1694	4.5	0.026110	83.8155	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	56345	882	1.6	-0.015957	-572.9542	ug/L
Sc	45	1256607	1446449	38269	2.6	1446448.534433		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2472	24	1.0	-0.003053	-2.9617	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4021	146	3.6	0.002492	2.2351	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1867	89	4.8	0.002262	5.8562	ug/L
Cu	63	85	3644	134	3.7	0.004444	5.7557	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	798201	6520	0.8	798200.939145		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	97	10	10.4	-0.000005	-1.1615	ug/L
Se	82	-3	34	23	67.7	0.000011	1.8123	ug/L
Sr	88	94	4685	292	6.2	0.001350	1.6111	ug/L
Y	89	67						ug/L
Mo	98	144	99	8	8.4	-0.000016	-0.0464	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3392545	83922	2.5	3392545.343482		ug/L
Sn	120	17270	18516	403	2.2	-0.000006	-1.0407	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1160	21	1.8	0.000315	0.3785	ug/L
Ce	140	36	63	20	31.9	0.000007	0.0096	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.107
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.548
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.337
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-12

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:29:39

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 220

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-12.169

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	54498	1708	3.1	0.037553	121.4899	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	83428	2072	2.5	0.002746	154.6575	ug/L
Sc	45	1256607	1447368	29791	2.1	1447367.927529		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2631	47	1.8	-0.002945	-2.8484	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	8466	327	3.9	0.005564	5.0135	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2343	146	6.2	0.002859	7.4196	ug/L
Cu	63	85	4775	194	4.1	0.005863	7.5928	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	798851	19680	2.5	798851.366247		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	103	14	13.3	-0.000004	-0.9319	ug/L
Se	82	-3	15	12	83.9	0.000005	0.9507	ug/L
Sr	88	94	26121	898	3.4	0.007503	9.1142	ug/L
Y	89	67						ug/L
Mo	98	144	70	7	9.9	-0.000025	-0.0926	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3473516	133443	3.8	3473515.821970		ug/L
Sn	120	17270	18897	411	2.2	-0.000020	-1.0825	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2551	54	2.1	0.000708	0.8687	ug/L
Ce	140	36	72	6	8.5	0.000009	0.0118	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.181
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.639
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.899
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-13

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:31:34

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 221

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-13.170

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	44904	1105	2.5	0.030888	99.5478	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	73348	349	0.5	-0.004263	-118.0452	ug/L
Sc	45	1256607	1447920	5525	0.4	1447919.804670		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2544	24	1.0	-0.003006	-2.9123	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5073	151	3.0	0.003216	2.8900	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1237	22	1.8	0.001477	3.8005	ug/L
Cu	63	85	2483	70	2.8	0.002995	3.8786	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	796962	2382	0.3	796962.455876		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	91	10	10.5	-0.000006	-1.3473	ug/L
Se	82	-3	23	10	44.5	0.000008	1.3256	ug/L
Sr	88	94	20643	180	0.9	0.006212	7.5397	ug/L
Y	89	67						ug/L
Mo	98	144	59	3	4.8	-0.000028	-0.1052	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3307457	36480	1.1	3307457.235435		ug/L
Sn	120	17270	20756	204	1.0	0.000812	1.2616	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1771	81	4.6	0.000508	0.6196	ug/L
Ce	140	36	66	8	11.8	0.000009	0.0111	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.225
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.373
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.645
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-DUP2

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:33:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 222

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-DUP2.171

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	61576	3661	5.9	0.042826	138.8494	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	85274	2017	2.4	0.004554	224.9880	ug/L
Sc	45	1256607	1433923	9176	0.6	1433922.581525		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2619	22	0.8	-0.002936	-2.8391	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7307	462	6.3	0.004810	4.3311	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1808	106	5.9	0.002200	5.6928	ug/L
Cu	63	85	3693	162	4.4	0.004527	5.8626	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	794414	12852	1.6	794414.461738		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	98	7	6.6	-0.000005	-1.1479	ug/L
Se	82	-3	18	15	84.7	0.000006	1.0793	ug/L
Sr	88	94	28996	1609	5.5	0.008392	10.1988	ug/L
Y	89	67						ug/L
Mo	98	144	58	4	7.6	-0.000029	-0.1097	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3447022	81500	2.4	3447021.910658		ug/L
Sn	120	17270	22224	326	1.5	0.000987	1.7541	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2471	62	2.5	0.000690	0.8459	ug/L
Ce	140	36	75	3	4.1	0.000011	0.0130	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.111
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.014
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.060
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MS2

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:35:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 223

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MS2.172

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	51965	1995	3.8	0.035651	115.2276	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	78449	1329	1.7	-0.000917	12.1225	ug/L
Sc	45	1256607	1455697	89119	6.1	1455696.521830		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2567	25	1.0	-0.002995	-2.9007	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6266	202	3.2	0.004025	3.6212	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	7707	111	1.4	0.009715	25.3683	ug/L
Cu	63	85	15807	434	2.7	0.019954	25.8403	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	787625	21618	2.7	787625.403674		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	374	12	3.2	0.000075	15.9228	ug/L
Se	82	-3	408	27	6.6	0.000119	18.1751	ug/L
Sr	88	94	24896	665	2.7	0.007167	8.7050	ug/L
Y	89	67						ug/L
Mo	98	144	48	4	9.1	-0.000032	-0.1251	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3462812	145851	4.2	3462811.625604		ug/L
Sn	120	17270	20675	1241	6.0	0.000504	0.3940	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2180	43	2.0	0.000603	0.7375	ug/L
Ce	140	36	76	14	17.8	0.000011	0.0131	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.843
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.056
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.560
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MSD2

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:37:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 224

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MSD2.173

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	60426	1989	3.3	0.042465	137.6613	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	84547	1668	2.0	0.004672	229.5829	ug/L
Sc	45	1256607	1418820	18764	1.3	1418820.379815		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2599	44	1.7	-0.002931	-2.8337	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6915	224	3.2	0.004587	4.1295	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	7953	237	3.0	0.010105	26.3902	ug/L
Cu	63	85	16213	214	1.3	0.020637	26.7246	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	781104	10201	1.3	781103.664421		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	384	11	2.9	0.000080	17.0984	ug/L
Se	82	-3	418	4	0.9	0.000124	19.0525	ug/L
Sr	88	94	27526	844	3.1	0.008117	9.8640	ug/L
Y	89	67						ug/L
Mo	98	144	53	5	8.6	-0.000030	-0.1149	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3378486	44679	1.3	3378486.345344		ug/L
Sn	120	17270	21956	307	1.4	0.001036	1.8922	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2434	72	3.0	0.000693	0.8499	ug/L
Ce	140	36	85	1	0.7	0.000014	0.0162	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.909
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.137
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.892
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-27

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:39:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 225

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-27.174

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	16665374	493028	3.0	11.891271	39147.3151	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	7196506	146380	2.0	5.079306	197644.4121	ug/L
Sc	45	1256607	1402688	34437	2.5	1402687.968925		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4242	45	1.1	-0.001737	-1.5768	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1754114	39128	2.2	1.251181	1131.6290	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	126538	4597	3.6	0.164488	430.5847	ug/L
Cu	63	85	258495	9238	3.6	0.336063	435.1937	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	769987	26169	3.4	769986.887404		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	170	21	12.3	0.000016	3.3314	ug/L
Se	82	-3	135	28	20.8	0.000040	6.2568	ug/L
Sr	88	94	6795056	292160	4.3	1.980086	2414.8949	ug/L
Y	89	67						ug/L
Mo	98	144	2578	126	4.9	0.000706	3.6367	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3435370	90703	2.6	3435370.331396		ug/L
Sn	120	17270	21582	619	2.9	0.000820	1.2844	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	231631	4614	2.0	0.067440	83.9675	ug/L
Ce	140	36	1385	44	3.2	0.000392	0.3937	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.625
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.569
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.692
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-28

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:41:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 226

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-28.175

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	416191	9454	2.3	0.290453	954.1105	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	362219	6166	1.7	0.197971	7749.3516	ug/L
Sc	45	1256607	1432306	6650	0.5	1432305.998795		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3335	93	2.8	-0.002434	-2.3111	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	703531	12104	1.7	0.490897	443.9801	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	15855	480	3.0	0.019810	51.7997	ug/L
Cu	63	85	32159	496	1.5	0.040217	52.0808	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	797245	11869	1.5	797244.535295		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	99	14	14.1	-0.000005	-1.2396	ug/L
Se	82	-3	6	24	386.7	0.000003	0.5797	ug/L
Sr	88	94	143997	2681	1.9	0.040999	49.9666	ug/L
Y	89	67						ug/L
Mo	98	144	138	4	2.9	-0.000006	0.0055	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3510533	83470	2.4	3510533.475763		ug/L
	Sn	120	17270	18664	423	2.3	-0.000145	-1.4326	ug/L
	Sb	121	224						ug/L
	Cs	133	20						ug/L
	Ba	138	86	6376	85	1.3	0.001789	2.2148	ug/L
	Ce	140	36	424	12	2.8	0.000110	0.1118	ug/L
>	Tm	169	2730830						ug/L
	Tl	205	25						ug/L
	Pb	208	143						ug/L
	Bi	209	261						ug/L
	Th	232	199						ug/L
	U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	113.982
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	112.413
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	111.070
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-29

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:43:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 227

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-29.176

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2053650	64302	3.1	1.481541	4875.5123	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	652641	21788	3.3	0.416027	16232.2027	ug/L
Sc	45	1256607	1387307	37233	2.7	1387306.884747		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2939	27	0.9	-0.002643	-2.5302	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	335785	10848	3.2	0.242003	218.8644	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	15753	254	1.6	0.019976	52.2323	ug/L
Cu	63	85	31411	460	1.5	0.039868	51.6285	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	785956	20930	2.7	785955.561177		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	111	16	14.0	-0.000000	-0.2356	ug/L
Se	82	-3	61	3	5.3	0.000019	3.0184	ug/L
Sr	88	94	256941	2843	1.1	0.075867	92.4923	ug/L
Y	89	67						ug/L
Mo	98	144	459	20	4.3	0.000090	0.4967	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3388625	110081	3.2	3388624.572706		ug/L
Sn	120	17270	17963	772	4.3	-0.000163	-1.4839	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3583	69	1.9	0.001031	1.2709	ug/L
Ce	140	36	261	18	6.8	0.000066	0.0681	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	110.401
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.821
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.213
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV9

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:45:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV9.177

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8030637	125867	1.6	5.987103	1970.9107	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	782781	15661	2.0	0.528577	2061.0659	ug/L
Sc	45	1256607	1341704	35044	2.6	1341704.098281		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	129811	2950	2.3	0.092000	9.7082	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	384980	8737	2.3	0.286664	25.9259	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	29219	461	1.6	0.038521	10.0786	ug/L
Cu	63	85	59247	1359	2.3	0.078136	10.1184	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	757072	13695	1.8	757072.346130		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3256	101	3.1	0.000961	20.5996	ug/L
Se	82	-3	4402	160	3.6	0.001344	20.4167	ug/L
Sr	88	94	294139	6473	2.2	0.089732	10.9402	ug/L
Y	89	67						ug/L
Mo	98	144	32792	309	0.9	0.009965	5.0862	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3276723	56911	1.7	3276722.657823		ug/L
Sn	120	17270	76389	1651	2.2	0.017847	4.9221	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	632632	19509	3.1	0.193023	24.0352	ug/L
Ce	140	36	31437	247	0.8	0.009584	0.9563	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.772
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.748
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.672
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB9

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 21:47:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCB9.178

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1473	932	63.2	0.000963	0.1025	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	39784	490	1.2	-0.025505	-94.4375	ug/L
Sc	45	1256607	1353059	28924	2.1	1353059.094301		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2474	14	0.6	-0.002934	-0.2837	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	442	25	5.6	0.000040	0.0017	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	47	10	21.6	-0.000014	-0.0103	ug/L
Cu	63	85	78	3	3.2	-0.000017	-0.0022	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	759349	24279	3.2	759349.327231		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	87	3	3.4	-0.000007	-0.1578	ug/L
Se	82	-3	8	5	56.4	0.000003	0.0672	ug/L
Sr	88	94	130	21	15.8	0.000010	-0.0024	ug/L
Y	89	67						ug/L
Mo	98	144	153	30	19.5	0.000001	0.0042	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3283071	86648	2.6	3283071.353599		ug/L
Sn	120	17270	17059	249	1.5	-0.000267	-0.1776	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	147	61	41.6	0.000018	0.0008	ug/L
Ce	140	36	31	3	9.4	-0.000002	0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.676
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.069
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.873
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-DUP3

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:49:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 228

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-DUP3.179

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2121780	84651	4.0	1.483531	4882.0615	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	676161	13572	2.0	0.418026	16309.9894	ug/L
Sc	45	1256607	1430304	42284	3.0	1430304.012350		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2913	70	2.4	-0.002726	-2.6179	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	363872	6985	1.9	0.254258	229.9479	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	17191	241	1.4	0.021447	56.0841	ug/L
Cu	63	85	35387	841	2.4	0.044177	57.2078	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	798888	19523	2.4	798888.255933		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	105	6	5.7	-0.000003	-0.7421	ug/L
Se	82	-3	70	6	9.0	0.000021	3.3682	ug/L
Sr	88	94	267241	2660	1.0	0.077188	94.1028	ug/L
Y	89	67						ug/L
Mo	98	144	497	24	4.8	0.000098	0.5360	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3464284	151565	4.4	3464283.965258		ug/L
Sn	120	17270	18619	1971	10.6	-0.000099	-1.3041	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3868	145	3.7	0.001090	1.3436	ug/L
Ce	140	36	283	28	10.0	0.000070	0.0726	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.823
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.645
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.607
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MS3

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:50:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 229

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MS3.180

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1990668	61412	3.1	1.360380	4476.6135	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	631401	30886	4.9	0.376698	14702.2455	ug/L
Sc	45	1256607	1465049	47133	3.2	1465049.053185		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2899	58	2.0	-0.002781	-2.6763	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	320339	12400	3.9	0.218620	197.7145	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	20492	833	4.1	0.025094	65.6336	ug/L
Cu	63	85	41875	1811	4.3	0.051314	66.4500	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	816394	39019	4.8	816393.752367		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	357	2	0.4	0.000068	14.4319	ug/L
Se	82	-3	398	5	1.4	0.000114	17.3972	ug/L
Sr	88	94	250011	11222	4.5	0.070799	86.3107	ug/L
Y	89	67						ug/L
Mo	98	144	452	19	4.1	0.000082	0.4579	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3535777	116619	3.3	3535776.513553		ug/L
Sn	120	17270	18887	786	4.2	-0.000123	-1.3724	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3352	104	3.1	0.000922	1.1347	ug/L
Ce	140	36	255	13	5.2	0.000061	0.0634	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.588
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.113
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.869
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121546-MSD3

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:52:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 230

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121546-MSD3.181

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2172668	99716	4.6	1.506084	4956.3124	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	702109	32550	4.6	0.431814	16846.3628	ug/L
Sc	45	1256607	1442140	14360	1.0	1442139.674355		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2951	37	1.3	-0.002716	-2.6075	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	387204	20066	5.2	0.268134	242.4986	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	26118	1208	4.6	0.032911	86.1000	ug/L
Cu	63	85	52937	2955	5.6	0.066746	86.4352	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	791744	5622	0.7	791744.198619		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	383	21	5.4	0.000078	16.4678	ug/L
Se	82	-3	461	24	5.2	0.000134	20.5033	ug/L
Sr	88	94	277348	15513	5.6	0.080013	97.5486	ug/L
Y	89	67						ug/L
Mo	98	144	470	40	8.6	0.000090	0.4954	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3463587	79423	2.3	3463586.757065		ug/L
Sn	120	17270	18225	475	2.6	-0.000202	-1.5952	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	4311	206	4.8	0.001217	1.5020	ug/L
Ce	140	36	307	26	8.4	0.000077	0.0797	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.765
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.637
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.584
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-32

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:54:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 231

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-32.182

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8601090	415567	4.8	5.895855	19408.6918	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	4225749	272209	6.4	2.841519	110589.4018	ug/L
Sc	45	1256607	1458574	9785	0.7	1458573.930517		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3717	76	2.0	-0.002214	-2.0795	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	278438	8781	3.2	0.190589	172.3619	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	14460	508	3.5	0.017971	46.9828	ug/L
Cu	63	85	29226	839	2.9	0.036357	47.0821	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	801472	9800	1.2	801471.537670		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	261	19	7.3	0.000042	8.7837	ug/L
Se	82	-3	220	15	6.9	0.000064	9.8477	ug/L
Sr	88	94	1426689	57557	4.0	0.407971	497.5294	ug/L
Y	89	67						ug/L
Mo	98	144	10842	436	4.0	0.003055	15.6189	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3496212	57760	1.7	3496211.999246		ug/L
Sn	120	17270	18626	782	4.2	-0.000138	-1.4135	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	91637	2882	3.1	0.026179	32.5869	ug/L
Ce	140	36	1587	41	2.6	0.000443	0.4439	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.072
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.009
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.617
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-33

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:56:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 232

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-33.183

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	913106	161793	17.7	0.600531	1974.9729	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	613965	105863	17.2	0.348675	13612.0546	ug/L
Sc	45	1256607	1545334	149139	9.7	1545334.241109		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3618	146	4.0	-0.002401	-2.2763	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1625898	285611	17.6	1.069305	967.1289	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	5261	896	17.0	0.006217	16.2105	ug/L
Cu	63	85	10728	1850	17.2	0.012711	16.4608	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	852864	96154	11.3	852864.252839		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	105	6	6.1	-0.000004	-1.0526	ug/L
Se	82	-3	36	18	49.4	0.000010	1.7498	ug/L
Sr	88	94	315787	53531	17.0	0.088212	107.5479	ug/L
Y	89	67						ug/L
Mo	98	144	434	62	14.3	0.000075	0.4221	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3644935	386814	10.6	3644934.709137		ug/L
Sn	120	17270	19482	1862	9.6	-0.000115	-1.3500	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	10010	1853	18.5	0.002773	3.4395	ug/L
Ce	140	36	737	112	15.1	0.000195	0.1965	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.977
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	120.255
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	115.322
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-34

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:58:39

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 233

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-34.184

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2954924	98121	3.3	2.097049	6901.9377	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1464333	38862	2.7	0.984411	38343.6403	ug/L
Sc	45	1256607	1408800	19833	1.4	1408799.793069		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4501	99	2.2	-0.001568	-1.3987	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3489751	89748	2.6	2.476936	2240.2812	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	4245	84	2.0	0.005292	13.7889	ug/L
Cu	63	85	8442	219	2.6	0.010554	13.6680	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	790801	10559	1.3	790801.105003		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	113	23	19.9	-0.000000	-0.2257	ug/L
Se	82	-3	14	15	103.4	0.000005	0.9136	ug/L
Sr	88	94	744184	21053	2.8	0.215833	263.1955	ug/L
Y	89	67						ug/L
Mo	98	144	574	13	2.3	0.000121	0.6545	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3447313	87196	2.5	3447313.097609		ug/L
Sn	120	17270	18834	744	4.0	0.000005	-1.0110	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	38018	666	1.8	0.011003	13.6877	ug/L
Ce	140	36	3776	106	2.8	0.001084	1.0839	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.111
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.504
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.070
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-35

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 22:00:34

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 234

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-35.185

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4164319	110580	2.7	2.834482	9329.7794	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	880185	29655	3.4	0.544289	21221.8933	ug/L
Sc	45	1256607	1469459	27848	1.9	1469459.438681		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2647	126	4.8	-0.002960	-2.8643	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	86143	3162	3.7	0.058371	52.7756	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	1333	107	8.1	0.001567	4.0351	ug/L
Cu	63	85	2788	74	2.7	0.003313	4.2898	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	812338	11939	1.5	812337.747368		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	99	7	7.0	-0.000005	-1.3292	ug/L
Se	82	-3	41	10	23.5	0.000012	2.0212	ug/L
Sr	88	94	96646	3402	3.5	0.027002	32.8963	ug/L
Y	89	67						ug/L
Mo	98	144	228	6	2.5	0.000018	0.1292	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3576641	50898	1.4	3576641.116078	ug/L
Sn	120	17270	19371	70	0.4	-0.000047	-1.1582 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	2357	44	1.8	0.000632	0.7734 ug/L
Ce	140	36	52	8	14.5	0.000003	0.0056 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.939
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.541
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.161
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-36

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 22:02:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 235

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-36.186

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	16661055	468063	2.8	11.803688	38858.9668	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	4017499	88899	2.2	2.791341	108637.3601	ug/L
Sc	45	1256607	1412186	51358	3.6	1412185.732141		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3507	29	0.8	-0.002277	-2.1450	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	485342	12650	2.6	0.343611	310.7648	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	5325	134	2.5	0.006733	17.5606	ug/L
Cu	63	85	10673	416	3.9	0.013513	17.4989	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	783015	30236	3.9	783014.783358		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	134	8	6.0	0.000007	1.2693	ug/L
Se	82	-3	34	20	57.8	0.000011	1.8342	ug/L
Sr	88	94	843254	15192	1.8	0.250136	305.0318	ug/L
Y	89	67						ug/L
Mo	98	144	1950	107	5.5	0.000532	2.7527	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3374365	153537	4.6	3374364.614559		ug/L
Sn	120	17270	20082	2235	11.1	0.000476	0.3160	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	145001	3709	2.6	0.042990	53.5203	ug/L
Ce	140	36	222	14	6.1	0.000054	0.0568	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.381
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.406
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.762
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-37

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 22:04:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 236

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-37.187

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	605927	27707	4.6	0.423520	1392.2043	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	201159	5564	2.8	0.085771	3384.4868	ug/L
Sc	45	1256607	1429925	45092	3.2	1429924.875913		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3282	29	0.9	-0.002466	-2.3441	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	385633	11098	2.9	0.269482	243.7177	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	76776	3487	4.5	0.096505	252.5970	ug/L
Cu	63	85	157153	6400	4.1	0.197597	255.8830	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	794764	27039	3.4	794764.360363		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	119	4	3.0	0.000002	0.1612	ug/L
Se	82	-3	171	52	30.4	0.000050	7.8249	ug/L
Sr	88	94	51330	1763	3.4	0.014903	18.1402	ug/L
Y	89	67						ug/L
Mo	98	144	629	30	4.8	0.000137	0.7375	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3437068	103681	3.0	3437068.238405		ug/L
Sn	120	17270	18484	120	0.6	-0.000083	-1.2577	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	730	46	6.3	0.000185	0.2175	ug/L
Ce	140	36	67	1	0.9	0.000008	0.0106	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.792
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.063
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.745
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-38

Sample Description: 10x

Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 22:06:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 237

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-38.188

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1022154	25903	2.5	0.725331	2385.8501	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1143956	32887	2.9	0.757107	29501.0028	ug/L
Sc	45	1256607	1409251	25194	1.8	1409250.980550		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2870	44	1.5	-0.002726	-2.6179	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	259277	8795	3.4	0.183759	166.1845	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	64601	1975	3.1	0.081244	212.6416	ug/L
Cu	63	85	130005	4744	3.6	0.163528	211.7643	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	794393	8923	1.1	794392.700557		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	108	13	11.6	-0.000001	-0.4354	ug/L
Se	82	-3	148	10	6.6	0.000044	6.9071	ug/L
Sr	88	94	360462	9912	2.7	0.105914	129.1381	ug/L
Y	89	67						ug/L
Mo	98	144	333	13	3.8	0.000052	0.3035	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3401958	37722	1.1	3401957.654080		ug/L
Sn	120	17270	18261	412	2.3	-0.000097	-1.2971	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	6132	163	2.7	0.001775	2.1971	ug/L
Ce	140	36	108	8	7.4	0.000020	0.0229	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.147
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.011
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.635
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVA

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:08:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVA.189

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8181812	308174	3.8	6.028936	1984.6835	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	796281	17629	2.2	0.532026	2074.4853	ug/L
Sc	45	1256607	1356943	43559	3.2	1356942.544307		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	131182	2349	1.8	0.091942	9.7021	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	392989	7126	1.8	0.289429	26.1759	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	29267	1113	3.8	0.038676	10.1193	ug/L
Cu	63	85	59209	1552	2.6	0.078293	10.1388	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	755092	17451	2.3	755091.797165		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3294	96	2.9	0.000962	20.6170	ug/L
Se	82	-3	4475	149	3.3	0.001353	20.5458	ug/L
Sr	88	94	287684	5648	2.0	0.086867	10.5908	ug/L
Y	89	67						ug/L
Mo	98	144	32095	702	2.2	0.009649	4.9253	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3310824	73822	2.2	3310824.340882		ug/L
Sn	120	17270	77364	953	1.2	0.017907	4.9387	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	630944	13058	2.1	0.190563	23.7289	ug/L
Ce	140	36	31461	1030	3.3	0.009491	0.9470	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.985
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.469
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.751
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBA

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:10:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBA.190

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1549	1160	74.8	0.001037	0.1270	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	39030	341	0.9	-0.025891	-95.9387	ug/L
Sc	45	1256607	1344736	27263	2.0	1344736.239021		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2384	50	2.1	-0.002989	-0.2895	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	470	54	11.6	0.000062	0.0037	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	58	6	11.0	0.000001	-0.0064	ug/L
Cu	63	85	88	7	7.6	-0.000005	-0.0006	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	759541	4773	0.6	759540.894417		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	92	7	7.1	-0.000005	-0.1226	ug/L
Se	82	-3	19	14	77.0	0.000006	0.1155	ug/L
Sr	88	94	123	6	4.6	0.000008	-0.0026	ug/L
Y	89	67						ug/L
Mo	98	144	169	23	13.5	0.000006	0.0069	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3265932	25672	0.8	3265932.335740		ug/L
Sn	120	17270	18015	531	2.9	0.000053	-0.0877	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	163	92	56.4	0.000023	0.0015	ug/L
Ce	140	36	41	11	27.5	0.000001	0.0004	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.013
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.096
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.331
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-BLK1

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:12:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 238

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-BLK1.191

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	306100	8090	2.6	0.231800	380.5036	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	37868	414	1.1	-0.026219	-486.0860	ug/L
Sc	45	1256607	1320215	37016	2.8	1320214.517884		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2313	121	5.2	-0.003008	-1.4576	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3851	49	1.3	0.002631	1.1805	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	163	8	4.8	0.000145	0.1566	ug/L
Cu	63	85	332	23	6.9	0.000329	0.2129	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	740125	2756	0.4	740125.343627		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	82	6	6.8	-0.000008	-0.9449	ug/L
Se	82	-3	3	6	236.6	0.000002	0.2047	ug/L
Sr	88	94	311	31	10.0	0.000065	0.0217	ug/L
Y	89	67						ug/L
Mo	98	144	76	28	37.1	-0.000023	-0.0388	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3272650	51656	1.6	3272650.141735		ug/L
Sn	120	17270	20977	282	1.3	0.000946	0.8191	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	290	28	9.8	0.000061	0.0315	ug/L
Ce	140	36	104	5	5.1	0.000020	0.0114	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.062
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.359
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.543
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-BLK2

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:14:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 239

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-BLK2.192

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	352753	13350	3.8	0.271321	445.5607	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	37466	146	0.4	-0.026081	-483.3963	ug/L
Sc	45	1256607	1299280	19788	1.5	1299279.507913		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2304	77	3.3	-0.002989	-1.4471	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4444	107	2.4	0.003132	1.4071	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	196	3	1.3	0.000193	0.2190	ug/L
Cu	63	85	382	19	4.9	0.000404	0.2619	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	729135	14454	2.0	729135.488830		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	82	7	8.7	-0.000008	-0.9514	ug/L
Se	82	-3	6	14	250.1	0.000002	0.2728	ug/L
Sr	88	94	287	13	4.4	0.000058	0.0174	ug/L
Y	89	67						ug/L
Mo	98	144	63	13	20.3	-0.000026	-0.0483	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3267138	40547	1.2	3267138.095790	ug/L
Sn	120	17270	20913	478	2.3	0.000936	0.8056 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	243	4	1.8	0.000047	0.0226 ug/L
Ce	140	36	98	5	4.7	0.000019	0.0106 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.396
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.809
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.369
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-BLK3

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:16:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 240

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-BLK3.193

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	326651	10441	3.2	0.252725	414.9495	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	37644	343	0.9	-0.025815	-478.2237	ug/L
Sc	45	1256607	1294756	58930	4.6	1294755.548156		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2354	80	3.4	-0.002944	-1.4236	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4224	134	3.2	0.002983	1.3393	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	192	29	15.0	0.000188	0.2127	ug/L
Cu	63	85	353	23	6.4	0.000363	0.2353	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	732328	35439	4.8	732328.134136		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	82	11	13.0	-0.000008	-0.9373	ug/L
Se	82	-3	-18	15	85.4	-0.000005	-0.2614	ug/L
Sr	88	94	298	16	5.4	0.000061	0.0193	ug/L
Y	89	67						ug/L
Mo	98	144	64	13	19.8	-0.000026	-0.0478	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3274475	158506	4.8	3274475.186709	ug/L
Sn	120	17270	20843	658	3.2	0.000905	0.7609 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	235	26	11.0	0.000045	0.0212 ug/L
Ce	140	36	99	10	9.9	0.000019	0.0107 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.036
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.259
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.601
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-BLK4

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:18:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 241

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-BLK4.194

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	353024	9040	2.6	0.271965	446.6209	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	38084	202	0.5	-0.025579	-473.6329	ug/L
Sc	45	1256607	1298268	28546	2.2	1298267.540324		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2337	12	0.5	-0.002962	-1.4333	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4815	136	2.8	0.003424	1.5388	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	296	7	2.4	0.000337	0.4072	ug/L
Cu	63	85	563	36	6.4	0.000664	0.4302	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	718341	10064	1.4	718340.568397		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	83	8	9.7	-0.000008	-0.9247	ug/L
Se	82	-3	4	3	62.8	0.000002	0.2444	ug/L
Sr	88	94	302	5	1.8	0.000062	0.0196	ug/L
Y	89	67						ug/L
Mo	98	144	53	3	5.3	-0.000030	-0.0569	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3301207	37726	1.1	3301206.969051	ug/L
Sn	120	17270	21400	866	4.0	0.001019	0.9216 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	233	13	5.4	0.000043	0.0203 ug/L
Ce	140	36	104	15	14.8	0.000020	0.0113 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.315
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.287
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.447
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 0944029-92

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:19:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 242

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\0944029-92.195

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	64975107	1986581	3.1	48.911008	80513.4295	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	59355	453	0.8	-0.010253	-175.5335	ug/L
Sc	45	1256607	1329151	31015	2.3	1329151.387193		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	61548	2413	3.9	0.041549	21.9908	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	94434	3653	3.9	0.070800	32.0083	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	4496	174	3.9	0.006037	7.8700	ug/L
Cu	63	85	8766	337	3.8	0.011799	7.6401	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	735827	16034	2.2	735826.530702		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	103	11	11.0	-0.000002	-0.2823	ug/L
Se	82	-3	78	25	31.6	0.000024	1.9341	ug/L
Sr	88	94	12277	206	1.7	0.003674	2.2226	ug/L
Y	89	67						ug/L
Mo	98	144	30486	469	1.5	0.009155	23.3654	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3316394	105705	3.2	3316393.803972	ug/L
Sn	120	17270	21150	784	3.7	0.000913	0.7729 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	1700	69	4.1	0.000486	0.2958 ug/L
Ce	140	36	305	25	8.3	0.000081	0.0416 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.773
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.753
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.927
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-MS3

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:21:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 243

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-MS3.196

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	65060628	1134317	1.7	52.420900	86291.2125	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	64443	356	0.6	-0.002992	-34.2935	ug/L
Sc	45	1256607	1241104	12979	1.0	1241103.985690		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	69030	864	1.3	0.050856	26.8890	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	57899	978	1.7	0.046362	20.9568	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	5627	188	3.3	0.008081	10.5458	ug/L
Cu	63	85	11114	209	1.9	0.015995	10.3563	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	689717	8434	1.2	689716.833059		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	356	27	7.6	0.000081	8.5586	ug/L
Se	82	-3	518	28	5.3	0.000166	12.7140	ug/L
Sr	88	94	18402	373	2.0	0.005855	3.5527	ug/L
Y	89	67						ug/L
Mo	98	144	34622	612	1.8	0.011025	28.1362	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3127766	67047	2.1	3127766.178126		ug/L
Sn	120	17270	20170	669	3.3	0.000988	0.8782	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	398	67	16.8	0.000101	0.0559	ug/L
Ce	140	36	280	17	6.2	0.000078	0.0402	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	98.766
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	97.251
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	98.959
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-BS1

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:23:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 244

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-BS1.197

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	327022	5149	1.6	0.252258	414.1802	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	38217	88	0.2	-0.025429	-470.7198	ug/L
Sc	45	1256607	1296077	18926	1.5	1296077.139015		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2257	39	1.7	-0.003021	-1.4644	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4417	123	2.8	0.003121	1.4019	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	201	28	14.0	0.000201	0.2294	ug/L
Cu	63	85	414	20	4.7	0.000450	0.2916	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	726250	2801	0.4	726250.328703		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	350	15	4.2	0.000073	7.7747	ug/L
Se	82	-3	391	24	6.1	0.000120	9.1609	ug/L
Sr	88	94	280	18	6.3	0.000055	0.0158	ug/L
Y	89	67						ug/L
Mo	98	144	177	33	18.7	0.000008	0.0394	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3287964	6242	0.2	3287964.114620	ug/L
Sn	120	17270	22277	78	0.3	0.001311	1.3333 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	386	36	9.3	0.000090	0.0495 ug/L
Ce	140	36	99	20	20.3	0.000019	0.0106 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.141
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.402
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.028
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-SRM1

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:25:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 245

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-SRM1.198

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	13343936	468953	3.5	10.537837	17345.7121	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	376380	10437	2.8	0.242350	4737.8944	ug/L
Sc	45	1256607	1266041	21807	1.7	1266041.052946		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	77592	2656	3.4	0.056521	29.8698	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	72791	1847	2.5	0.057212	25.8635	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	13538	503	3.7	0.018942	24.7636	ug/L
Cu	63	85	27575	510	1.8	0.038613	25.0014	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	712013	5972	0.8	712012.740428		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	81	9	11.2	-0.000008	-0.9019	ug/L
Se	82	-3	35	11	29.9	0.000012	0.9899	ug/L
Sr	88	94	622478	19959	3.2	0.196536	119.8306	ug/L
Y	89	67						ug/L
Mo	98	144	5925	40	0.7	0.001826	4.6754	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3166252	59578	1.9	3166252.070347		ug/L
Sn	120	17270	20996	234	1.1	0.001168	1.1314	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	77054	1122	1.5	0.024312	15.1311	ug/L
Ce	140	36	849	53	6.2	0.000257	0.1292	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.751
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.395
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	100.177
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-04

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-04
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:27:39

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 246

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-04.199

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	322513	7973	2.5	0.248770	408.4382	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	38673	163	0.4	-0.025075	-463.8259	ug/L
Sc	45	1256607	1295777	3686	0.3	1295777.391777		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2330	45	1.9	-0.002964	-1.4344	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4755	240	5.1	0.003383	1.5202	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	283	20	7.2	0.000314	0.3772	ug/L
Cu	63	85	544	42	7.8	0.000628	0.4066	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	727438	9513	1.3	727437.690078		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	81	3	3.8	-0.000009	-1.0265	ug/L
Se	82	-3	15	11	73.7	0.000005	0.4884	ug/L
Sr	88	94	425	24	5.7	0.000098	0.0420	ug/L
Y	89	67						ug/L
Mo	98	144	100	8	7.7	-0.000016	-0.0213	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3318580	10928	0.3	3318579.756716		ug/L
Sn	120	17270	21532	60	0.3	0.001024	0.9291	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	369	7	2.0	0.000084	0.0455	ug/L
Ce	140	36	122	17	14.1	0.000026	0.0140	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.117
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.570
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.997
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-05

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-05
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:29:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 247

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-05.200

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	28036273	549560	2.0	21.434716	35283.5298	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	118732	2019	1.7	0.035859	721.4060	ug/L
Sc	45	1256607	1308310	41095	3.1	1308309.637460		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	16620	316	1.9	0.007946	4.3069	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1619730	43830	2.7	1.237863	559.7919	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2928	62	2.1	0.003988	5.1869	ug/L
Cu	63	85	5874	74	1.3	0.008030	5.1992	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	720918	12859	1.8	720918.046566		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	119	10	8.5	0.000004	0.3063	ug/L
Se	82	-3	53	8	15.1	0.000017	1.3845	ug/L
Sr	88	94	120396	1955	1.6	0.037014	22.5531	ug/L
Y	89	67						ug/L
Mo	98	144	10174	28	0.3	0.003085	7.8864	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3250056	37791	1.2	3250056.495076		ug/L
Sn	120	17270	20259	834	4.1	0.000772	0.5737	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	99623	409	0.4	0.030628	19.0634	ug/L
Ce	140	36	14845	227	1.5	0.004557	2.2740	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.114
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.651
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.829
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVB

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:31:31

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVB.201

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8098837	129616	1.6	6.099028	2007.7596	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	781056	5103	0.7	0.533384	2079.7679	ug/L
Sc	45	1256607	1328433	44114	3.3	1328433.236530		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	133519	2603	1.9	0.095777	10.1057	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	390983	1686	0.4	0.294229	26.6101	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	29062	357	1.2	0.039212	10.2597	ug/L
Cu	63	85	58664	642	1.1	0.079181	10.2537	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	740237	24696	3.3	740236.691138		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3279	117	3.6	0.000946	20.2880	ug/L
Se	82	-3	4479	177	3.9	0.001340	20.3508	ug/L
Sr	88	94	291555	4388	1.5	0.087182	10.6292	ug/L
Y	89	67						ug/L
Mo	98	144	32985	184	0.6	0.009819	5.0118	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3348141	148971	4.4	3348141.384075	ug/L
Sn	120	17270	78175	760	1.0	0.017911	4.9399 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	634520	6897	1.1	0.189676	23.6184 ug/L
Ce	140	36	31797	365	1.1	0.009497	0.9476 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.716
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.375
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.932
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBB

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:33:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBB.202

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1497	983	65.7	0.001023	0.1223	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	39007	530	1.4	-0.024945	-92.2622	ug/L
Sc	45	1256607	1303045	51325	3.9	1303045.289356		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2370	50	2.1	-0.002941	-0.2845	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	451	56	12.3	0.000059	0.0034	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	50	13	26.2	-0.000010	-0.0092	ug/L
Cu	63	85	77	2	2.0	-0.000018	-0.0023	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	749783	21383	2.9	749783.122519		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	90	5	5.6	-0.000006	-0.1439	ug/L
Se	82	-3	7	5	70.2	0.000003	0.0625	ug/L
Sr	88	94	154	68	44.1	0.000016	-0.0016	ug/L
Y	89	67						ug/L
Mo	98	144	167	11	6.6	0.000005	0.0062	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3312703	65476	2.0	3312702.701777		ug/L
Sn	120	17270	17760	432	2.4	-0.000103	-0.1316	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	157	72	46.1	0.000020	0.0011	ug/L
Ce	140	36	38	15	38.2	0.000000	0.0003	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.695
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.721
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.811
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-06

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-06
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:35:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 248

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-06.203

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	62099902	1562872	2.5	48.618911	80032.5953	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	70710	1404	2.0	0.000453	32.7207	ug/L
Sc	45	1256607	1278306	62767	4.9	1278306.002043		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	20546	463	2.3	0.011325	6.0854	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1848475	57334	3.1	1.446694	654.2321	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	3029	72	2.4	0.004164	5.4182	ug/L
Cu	63	85	5937	227	3.8	0.008187	5.3011	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	714498	17413	2.4	714497.971811		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	122	20	16.0	0.000005	0.4066	ug/L
Se	82	-3	56	17	31.0	0.000018	1.4674	ug/L
Sr	88	94	41396	1534	3.7	0.012818	7.7986	ug/L
Y	89	67						ug/L
Mo	98	144	4578	127	2.8	0.001375	3.5258	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3222669	118108	3.7	3222668.516788	ug/L
Sn	120	17270	20411	410	2.0	0.000872	0.7149 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	14692	313	2.1	0.004534	2.8163 ug/L
Ce	140	36	13730	265	1.9	0.004251	2.1215 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.727
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.745
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.962
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-07

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-07
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:37:25

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 249

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-07.204

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	344669	6481	1.9	0.266737	438.0150	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	38655	234	0.6	-0.024986	-462.1037	ug/L
Sc	45	1256607	1292215	38916	3.0	1292214.604500		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2279	48	2.1	-0.002998	-1.4523	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4962	476	9.6	0.003560	1.6004	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	241	11	4.7	0.000258	0.3043	ug/L
Cu	63	85	493	16	3.2	0.000562	0.3638	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	723201	16030	2.2	723201.105738		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	89	8	9.4	-0.000006	-0.7321	ug/L
Se	82	-3	0	13	8937.1	0.000001	0.1444	ug/L
Sr	88	94	293	26	8.8	0.000060	0.0185	ug/L
Y	89	67						ug/L
Mo	98	144	122	3	2.4	-0.000008	-0.0026	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3273602	96738	3.0	3273601.625856		ug/L
Sn	120	17270	20915	342	1.6	0.000927	0.7920	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	257	26	10.0	0.000052	0.0254	ug/L
Ce	140	36	102	17	16.5	0.000020	0.0112	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.834
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	101.973
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.574
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-11

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-11
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:39:21

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 250

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-11.205

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	9407520	264766	2.8	7.482948	12316.9276	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	135866	630	0.5	0.053154	1057.8070	ug/L
Sc	45	1256607	1257151	1283	0.1	1257151.140917		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	13685	280	2.0	0.006123	3.3480	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	656629	16310	2.5	0.522025	236.0670	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	8016	252	3.1	0.011254	14.6992	ug/L
Cu	63	85	16007	446	2.8	0.022506	14.5721	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	707375	12482	1.8	707374.795314		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	177	28	16.0	0.000022	2.2847	ug/L
Se	82	-3	118	15	12.3	0.000038	2.9314	ug/L
Sr	88	94	147151	3997	2.7	0.045776	27.8964	ug/L
Y	89	67						ug/L
Mo	98	144	3007	52	1.7	0.000890	2.2894	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3212551	73625	2.3	3212550.795548		ug/L
	Sn	120	17270	20016	358	1.8	0.000769	0.5693	ug/L
	Sb	121	224						ug/L
	Cs	133	20						ug/L
	Ba	138	86	244674	4635	1.9	0.076146	47.4041	ug/L
	Ce	140	36	7847	199	2.5	0.002431	1.2138	ug/L
>	Tm	169	2730830						ug/L
	Tl	205	25						ug/L
	Pb	208	143						ug/L
	Bi	209	261						ug/L
	Th	232	199						ug/L
	U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	100.043
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	99.741
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	101.642
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1223038-12

Sample Description: 5x

Batch ID: B121544

Sample ID should read 1233038-12
KDM 9/18/2012

Sample Date/Time: Friday, September 14, 2012 22:41:17

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 251

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1223038-12.206

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8706333	147963	1.7	6.824332	11232.7519	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	138504	1386	1.0	0.053658	1067.6112	ug/L
Sc	45	1256607	1275844	27347	2.1	1275844.202646		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	9246	151	1.6	0.002488	1.4348	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	605819	7010	1.2	0.474645	214.6401	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	4103	87	2.1	0.005706	7.4356	ug/L
Cu	63	85	8325	97	1.2	0.011610	7.5176	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	709707	11901	1.7	709706.916759		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	145	11	7.3	0.000012	1.1996	ug/L
Se	82	-3	107	19	18.0	0.000034	2.6765	ug/L
Sr	88	94	133500	3313	2.5	0.041420	25.2404	ug/L
Y	89	67						ug/L
Mo	98	144	1274	19	1.5	0.000350	0.9111	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3221249	98494	3.1	3221249.493055		ug/L
Sn	120	17270	20317	584	2.9	0.000843	0.6745	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	190856	5337	2.8	0.059227	36.8702	ug/L
Ce	140	36	6162	133	2.2	0.001902	0.9499	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.531
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.070
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.917
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-DUP2

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:43:13

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 252

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-DUP2.207

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	9405833	169822	1.8	7.356980	12109.5665	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	138186	1011	0.7	0.053181	1058.3354	ug/L
Sc	45	1256607	1278611	28925	2.3	1278611.301560		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	10543	156	1.5	0.003484	1.9592	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	653401	11452	1.8	0.510823	231.0011	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	5836	155	2.6	0.008080	10.5439	ug/L
Cu	63	85	11884	326	2.7	0.016487	10.6753	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	715572	17370	2.4	715572.441397		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	148	6	3.7	0.000013	1.2867	ug/L
Se	82	-3	93	11	11.9	0.000030	2.3325	ug/L
Sr	88	94	139704	3422	2.4	0.043315	26.3957	ug/L
Y	89	67						ug/L
Mo	98	144	1634	7	0.4	0.000462	1.1957	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	3223452	96269	3.0	3223451.850698	ug/L
	Sn	120	17270	20422	423	2.1	0.000873	0.7156 ug/L
	Sb	121	224					ug/L
	Cs	133	20					ug/L
	Ba	138	86	208300	4637	2.2	0.064603	40.2175 ug/L
	Ce	140	36	7260	171	2.4	0.002241	1.1191 ug/L
>	Tm	169	2730830					ug/L
	Tl	205	25					ug/L
	Pb	208	143					ug/L
	Bi	209	261					ug/L
	Th	232	199					ug/L
	U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.751
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.897
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.987
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-MS2

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:45:09

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 253

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-MS2.208

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6117164	43087	0.7	4.797248	7895.8823	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	167835	1225	0.7	0.076699	1515.7860	ug/L
Sc	45	1256607	1275799	39249	3.1	1275798.591753		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	10756	28	0.3	0.003674	2.0588	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	738976	16216	2.2	0.579058	261.8593	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	6353	143	2.2	0.008877	11.5869	ug/L
Cu	63	85	12779	293	2.3	0.017886	11.5813	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	709601	10079	1.4	709600.720360		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	358	19	5.3	0.000078	8.2746	ug/L
Se	82	-3	416	20	4.7	0.000130	9.9304	ug/L
Sr	88	94	182830	6075	3.3	0.056687	34.5502	ug/L
Y	89	67						ug/L
Mo	98	144	1977	51	2.6	0.000568	1.4660	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3223460	79041	2.5	3223460.053147	ug/L
Sn	120	17270	20772	359	1.7	0.000981	0.8678 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	274900	2639	1.0	0.085275	53.0888 ug/L
Ce	140	36	8854	143	1.6	0.002736	1.3658 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.527
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.055
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.987
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121544-MSD2

Sample Description: 5x

Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:47:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 254

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121544-MSD2.209

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6575434	149200	2.3	5.184448	8533.2682	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	165750	2261	1.4	0.075763	1497.5910	ug/L
Sc	45	1256607	1268470	10236	0.8	1268470.369952		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	10980	164	1.5	0.003895	2.1751	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	742724	20053	2.7	0.585334	264.6971	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	7016	165	2.4	0.009803	12.7991	ug/L
Cu	63	85	14181	439	3.1	0.019844	12.8491	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	710298	2630	0.4	710298.381048		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	398	6	1.4	0.000091	9.6509	ug/L
Se	82	-3	435	39	9.0	0.000136	10.4166	ug/L
Sr	88	94	180002	3637	2.0	0.055943	34.0961	ug/L
Y	89	67						ug/L
Mo	98	144	1975	37	1.9	0.000568	1.4683	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3217977	87747	2.7	3217976.715775	ug/L
Sn	120	17270	19213	296	1.5	0.000508	0.2023 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	274641	6440	2.3	0.085391	53.1608 ug/L
Ce	140	36	8538	120	1.4	0.002644	1.3199 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.944
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.153
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	101.814
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVC

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:49:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVC.210

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7973114	108336	1.4	5.920763	1949.0698	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	764335	15696	2.1	0.512720	1999.3796	ug/L
Sc	45	1256607	1348253	48712	3.6	1348253.137831		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	129963	2172	1.7	0.091738	9.6806	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	380370	5621	1.5	0.282144	25.5170	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	28079	449	1.6	0.036946	9.6662	ug/L
Cu	63	85	56412	1133	2.0	0.074260	9.6165	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	758615	9904	1.3	758614.874853		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	3093	100	3.2	0.000869	18.6229	ug/L
Se	82	-3	4271	78	1.8	0.001246	18.9285	ug/L
Sr	88	94	283261	4665	1.6	0.082560	10.0655	ug/L
Y	89	67						ug/L
Mo	98	144	32127	689	2.1	0.009322	4.7585	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3430802	56172	1.6	3430801.567123		ug/L
Sn	120	17270	78013	1305	1.7	0.017282	4.7630	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	616558	15444	2.5	0.179754	22.3829	ug/L
Ce	140	36	31020	809	2.6	0.009034	0.9014	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.293
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.966
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.547
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBC

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 22:51:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBC.211

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1747	1582	90.6	0.001218	0.1865	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	39770	41	0.1	-0.024728	-91.4153	ug/L
Sc	45	1256607	1317604	27525	2.1	1317604.379510		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2363	32	1.3	-0.002969	-0.2874	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	468	73	15.7	0.000069	0.0043	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	46	7	15.2	-0.000013	-0.0102	ug/L
Cu	63	85	90	13	14.3	0.000002	0.0003	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	738464	4686	0.6	738464.327028		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	93	9	9.9	-0.000005	-0.1183	ug/L
Se	82	-3	4	15	379.3	0.000002	0.0482	ug/L
Sr	88	94	125	22	17.9	0.000008	-0.0026	ug/L
Y	89	67						ug/L
Mo	98	144	137	16	11.3	-0.000004	0.0017	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3283383	87365	2.7	3283383.046673	ug/L
Sn	120	17270	17895	182	1.0	-0.000012	-0.1060 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	143	95	66.8	0.000017	0.0007 ug/L
Ce	140	36	35	3	9.9	-0.000001	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.854
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.125
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.883
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-14

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 22:53:00

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 255

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-14.212

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4560122	296738	6.5	4.034379	66400.9129	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	370368	23678	6.4	0.272766	53295.1961	ug/L
Sc	45	1256607	1130729	31473	2.8	1130729.195718		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3365	4	0.1	-0.001785	-8.1404	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6523	406	6.2	0.005478	24.6789	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	19485	1063	5.5	0.027118	354.6589	ug/L
Cu	63	85	41117	2954	7.2	0.057237	370.6012	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	716263	26957	3.8	716262.957222		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	408	53	12.9	0.000090	95.2787	ug/L
Se	82	-3	459	85	18.6	0.000138	105.8914	ug/L
Sr	88	94	64327	4099	6.4	0.019339	117.7528	ug/L
Y	89	67						ug/L
Mo	98	144	1616	187	11.5	0.000440	11.4138	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3319129	142849	4.3	3319129.320821		ug/L
Sn	120	17270	18424	817	4.4	0.000087	-3.9056	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2702	252	9.3	0.000789	4.8459	ug/L
Ce	140	36	50	19	37.4	0.000004	0.0314	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	89.983
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.994
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.014
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-15

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 22:54:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 256

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-15.213

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6443072	565908	8.8	5.393840	88779.5798	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	509634	57744	11.3	0.371528	72505.4303	ug/L
Sc	45	1256607	1195731	29282	2.4	1195730.860474		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6755	420	6.2	0.000891	5.9466	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	8826	1424	16.1	0.007101	32.0167	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	23527	2636	11.2	0.029049	379.9371	ug/L
Cu	63	85	48948	5197	10.6	0.060490	391.6676	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	807785	51638	6.4	807784.692226		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	959	393	41.0	0.000196	208.8986	ug/L
Se	82	-3	2372	687	29.0	0.000569	432.6647	ug/L
Sr	88	94	45308	4506	9.9	0.010924	66.4344	ug/L
Y	89	67						ug/L
Mo	98	144	2631	325	12.4	0.000590	15.2431	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4135609	273670	6.6	4135609.328837		ug/L
Sn	120	17270	22803	1206	5.3	0.000055	-4.3517	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1633	158	9.7	0.000368	2.2210	ug/L
Ce	140	36	47	4	8.7	0.000000	0.0126	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	95.155
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.899
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	130.847
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-16

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 22:56:51

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 257

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-16.214

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6783506	527270	7.8	4.133436	68031.5243	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	511582	31473	6.2	0.256550	50140.8964	ug/L
Sc	45	1256607	1652604	121694	7.4	1652603.771549		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4631	245	5.3	-0.001945	-8.9795	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6653	657	9.9	0.003771	16.9578	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	23185	1689	7.3	0.023855	311.9392	ug/L
Cu	63	85	48416	3792	7.8	0.049864	322.8663	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	973935	59606	6.1	973934.557862		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	667	67	10.0	0.000106	112.9518	ug/L
Se	82	-3	1863	190	10.2	0.000390	296.6341	ug/L
Sr	88	94	54027	3677	6.8	0.011238	68.3526	ug/L
Y	89	67						ug/L
Mo	98	144	2332	106	4.6	0.000440	11.4179	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4813894	250479	5.2	4813894.470667		ug/L
Sn	120	17270	27293	1729	6.3	0.000204	-2.2611	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1083	88	8.1	0.000199	1.1702	ug/L
Ce	140	36	50	12	23.0	-0.000001	0.0080	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	131.513
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	137.326
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	152.307
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-17

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 22:58:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 258

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-17.215

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1019237	1667754	163.6	0.520002	8549.2489	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	117599	117623	100.0	0.012430	2656.8366	ug/L
Sc	45	1256607	2113867	1392112	65.9	2113866.984788		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3384	466	13.8	-0.002443	-11.6030	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1756	796	45.4	0.000772	3.3948	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	3551	5732	161.4	0.002576	33.3924	ug/L
Cu	63	85	7389	11690	158.2	0.005455	35.3185	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1250470	762240	61.0	1250469.940831		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	352	482	137.0	0.000028	29.3687	ug/L
Se	82	-3	414	738	178.2	0.000066	51.0609	ug/L
Sr	88	94	3592	5561	154.8	0.000547	3.1581	ug/L
Y	89	67						ug/L
Mo	98	144	536	758	141.4	0.000043	1.2887	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	6019039	3513472	58.4	6019039.337384	ug/L
Sn	120	17270	32331	18149	56.1	0.000133	-3.2505 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	512	621	121.3	0.000057	0.2895 ug/L
Ce	140	36	50	23	45.4	-0.000002	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	168.220
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	176.318
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	190.437
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-18

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:00:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 259

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-18.216

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5257195	197469	3.8	3.413449	56179.5145	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	395702	9795	2.5	0.202091	39548.0170	ug/L
Sc	45	1256607	1540405	64168	4.2	1540405.096619		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4232	36	0.9	-0.002012	-9.3327	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5222	187	3.6	0.003104	13.9400	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	21093	525	2.5	0.023336	305.1571	ug/L
Cu	63	85	43292	1106	2.6	0.047932	310.3525	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	900851	10922	1.2	900851.098753		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	608	13	2.2	0.000107	113.5451	ug/L
Se	82	-3	803	75	9.3	0.000185	141.2035	ug/L
Sr	88	94	16874	460	2.7	0.003847	23.2779	ug/L
Y	89	67						ug/L
Mo	98	144	1651	53	3.2	0.000334	8.6980	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4353339	146744	3.4	4353339.244880		ug/L
Sn	120	17270	25168	262	1.0	0.000320	-0.6144	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1883	111	5.9	0.000405	2.4556	ug/L
Ce	140	36	52	5	9.6	0.000001	0.0159	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.584
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	127.021
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	137.735
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-19

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:02:35

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 260

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-19.217

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	3421392	2930462	85.7	2.243686	36923.5475	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	277306	197978	71.4	0.121141	23802.3455	ug/L
Sc	45	1256607	2141751	887943	41.5	2141750.767685		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	7240	3647	50.4	-0.000387	-0.7794	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4192	2180	52.0	0.002262	10.1355	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	15179	12810	84.4	0.014112	184.4052	ug/L
Cu	63	85	31947	26764	83.8	0.029686	192.2155	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1280961	332276	25.9	1280960.906863		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	431	291	67.6	0.000048	50.2201	ug/L
Se	82	-3	737	606	82.2	0.000142	108.6363	ug/L
Sr	88	94	10401	8573	82.4	0.001960	11.7712	ug/L
Y	89	67						ug/L
Mo	98	144	1643	1373	83.6	0.000270	7.0602	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	6309591	1747003	27.7	6309590.598512		ug/L
Sn	120	17270	32160	10453	32.5	-0.000401	-10.7716	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	871	575	66.1	0.000135	0.7742	ug/L
Ce	140	36	56	16	28.5	-0.000002	0.0003	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	170.439
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	180.618
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	199.629
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-20

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:04:31

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 301

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-20.218

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7332881	169811	2.3	4.872027	80189.7939	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	588681	16601	2.8	0.336396	65672.0328	ug/L
Sc	45	1256607	1507791	83819	5.6	1507790.871914		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5255	94	1.8	-0.001271	-5.4350	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	9397	703	7.5	0.005962	26.8670	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	28708	1056	3.7	0.031416	410.9168	ug/L
Cu	63	85	60810	1838	3.0	0.066584	431.1245	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	911525	8735	1.0	911525.194454		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	879	234	26.6	0.000155	165.6905	ug/L
Se	82	-3	1510	354	23.5	0.000325	247.1335	ug/L
Sr	88	94	87906	2584	2.9	0.018805	114.4917	ug/L
Y	89	67						ug/L
Mo	98	144	2306	101	4.4	0.000449	11.6252	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4667358	80826	1.7	4667357.713520		ug/L
Sn	120	17270	27061	1385	5.1	0.000332	-0.4484	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1854	65	3.5	0.000370	2.2357	ug/L
Ce	140	36	55	4	6.8	0.000001	0.0152	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.989
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	128.526
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	147.671
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVD

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:06:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVC.219

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	11863871	155426	1.3	6.258060	2060.1176	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1116742	17612	1.6	0.534126	2082.6544	ug/L
Sc	45	1256607	1896116	45918	2.4	1896116.154284		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	193108	5527	2.9	0.097080	10.2428	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	567812	6142	1.1	0.299247	27.0639	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	41996	368	0.9	0.040489	10.5938	ug/L
Cu	63	85	85415	619	0.7	0.082388	10.6690	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1035502	22961	2.2	1035501.600683		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	4803	118	2.5	0.000934	20.0311	ug/L
Se	82	-3	6541	209	3.2	0.001318	20.0212	ug/L
Sr	88	94	443970	4777	1.1	0.089397	10.8994	ug/L
Y	89	67						ug/L
Mo	98	144	49095	789	1.6	0.009843	5.0240	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4966481	145268	2.9	4966480.534190		ug/L
Sn	120	17270	117748	1687	1.4	0.018252	5.0358	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	921234	21300	2.3	0.185491	23.0973	ug/L
Ce	140	36	45798	959	2.1	0.009212	0.9192	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	150.892
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	146.007
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	157.135
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBD

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:08:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBC.220

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1817	377	20.7	0.000821	0.0559	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	40046	183	0.5	-0.034172	-128.1572	ug/L
Sc	45	1256607	1931149	54244	2.8	1931148.869510		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2350	23	1.0	-0.003545	-0.3480	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1219	47	3.9	0.000345	0.0293	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	80	13	15.9	-0.000000	-0.0067	ug/L
Cu	63	85	314	4	1.3	0.000176	0.0228	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1058885	35444	3.3	1058884.520687		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	119	16	13.1	-0.000009	-0.2196	ug/L
Se	82	-3	26	7	25.7	0.000006	0.1078	ug/L
Sr	88	94	205	13	6.5	0.000011	-0.0022	ug/L
Y	89	67						ug/L
Mo	98	144	167	38	23.0	-0.000012	-0.0026	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5024205	159884	3.2	5024205.271298		ug/L
Sn	120	17270	27639	976	3.5	0.000037	-0.0922	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	165	26	15.9	0.000006	-0.0006	ug/L
Ce	140	36	45	1	2.5	-0.000002	0.0000	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	153.680
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	149.304
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	158.961
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-21

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:10:26

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 302

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-21.221

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5516577	32001	0.6	3.594912	59166.6617	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	503772	12176	2.4	0.273358	53410.3730	ug/L
Sc	45	1256607	1534845	32678	2.1	1534844.658734		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4163	89	2.1	-0.002050	-9.5335	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	10687	36	0.3	0.006678	30.1053	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	20845	363	1.7	0.022650	296.1726	ug/L
Cu	63	85	43396	628	1.4	0.047188	305.5397	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	917291	3548	0.4	917290.955181		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	516	10	2.0	0.000078	82.7464	ug/L
Se	82	-3	995	21	2.1	0.000215	163.8924	ug/L
Sr	88	94	64897	1908	2.9	0.013934	84.7906	ug/L
Y	89	67						ug/L
Mo	98	144	1934	54	2.8	0.000370	9.6342	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4650858	103240	2.2	4650858.486708		ug/L
Sn	120	17270	27046	709	2.6	0.000352	-0.1678	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2114	57	2.7	0.000428	2.5949	ug/L
Ce	140	36	76	8	11.0	0.000005	0.0373	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.142
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	129.339
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	147.149
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-22

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:12:22

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 303

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-22.222

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7888803	58113	0.7	5.099934	83941.4671	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	552412	3694	0.7	0.302217	59023.7874	ug/L
Sc	45	1256607	1547893	53666	3.5	1547893.313426		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4742	40	0.8	-0.001697	-7.6736	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7879	230	2.9	0.004806	21.6384	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	32844	872	2.7	0.034760	454.6923	ug/L
Cu	63	85	68438	2048	3.0	0.072475	469.2663	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	943138	29840	3.2	943138.407351		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	566	27	4.7	0.000084	89.7901	ug/L
Se	82	-3	1095	22	2.0	0.000228	174.1029	ug/L
Sr	88	94	18047	403	2.2	0.003721	22.5089	ug/L
Y	89	67						ug/L
Mo	98	144	3394	116	3.4	0.000659	17.0019	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4820944	250309	5.2	4820944.475860		ug/L
Sn	120	17270	29247	2112	7.2	0.000599	3.3046	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2236	19	0.8	0.000438	2.6567	ug/L
Ce	140	36	266	12	4.5	0.000044	0.2317	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	123.180
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	132.984
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	152.530
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-23

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:14:18

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 304

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-23.223

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6854848	225221	3.3	4.487621	73861.9238	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	477930	13157	2.8	0.257963	50415.7331	ug/L
Sc	45	1256607	1527430	10032	0.7	1527429.694672		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4217	131	3.1	-0.002002	-9.2784	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7123	320	4.5	0.004376	19.6935	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	22587	957	4.2	0.024251	317.1239	ug/L
Cu	63	85	47756	2084	4.4	0.051312	332.2388	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	928277	12319	1.3	928277.248019		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	719	46	6.5	0.000122	129.5917	ug/L
Se	82	-3	983	18	1.8	0.000212	161.9484	ug/L
Sr	88	94	22607	1006	4.5	0.004835	29.3070	ug/L
Y	89	67						ug/L
Mo	98	144	1621	41	2.6	0.000303	7.9212	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4646606	24842	0.5	4646605.516734		ug/L
Sn	120	17270	26253	673	2.6	0.000186	-2.5048	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2318	37	1.6	0.000472	2.8698	ug/L
Ce	140	36	41	5	12.1	-0.000003	-0.0004	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	121.552
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	130.889
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	147.014
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-24

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:16:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 305

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-24.224

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6727475	141393	2.1	4.617781	76004.5406	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	503315	13313	2.6	0.290772	56797.6206	ug/L
Sc	45	1256607	1465305	125880	8.6	1465304.649248		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	6762	341	5.0	-0.000110	0.6750	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	12190	708	5.8	0.008100	36.5337	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	25736	520	2.0	0.027124	354.7377	ug/L
Cu	63	85	54299	1324	2.4	0.057263	370.7718	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	946412	29356	3.1	946412.229107		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1310	313	23.9	0.000247	263.6080	ug/L
Se	82	-3	3098	432	13.9	0.000663	503.9916	ug/L
Sr	88	94	31278	783	2.5	0.006668	40.4823	ug/L
Y	89	67						ug/L
Mo	98	144	2017	87	4.3	0.000386	10.0311	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4670466	142785	3.1	4670466.441813	ug/L
Sn	120	17270	25152	873	3.5	-0.000074	-6.1659 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	648	9	1.4	0.000112	0.6278 ug/L
Ce	140	36	42	6	14.1	-0.000002	0.0005 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.608
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	133.446
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	147.769
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-25

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:18:10

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 306

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-25.225

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5972268	202397	3.4	3.737696	61517.0809	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	468478	13725	2.9	0.238317	46594.3764	ug/L
Sc	45	1256607	1597867	53007	3.3	1597866.960243		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5297	116	2.2	-0.001447	-6.3578	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	10912	645	5.9	0.006539	29.4743	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	25387	1104	4.3	0.027088	354.2631	ug/L
Cu	63	85	54094	1471	2.7	0.057779	374.1101	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	934384	29542	3.2	934383.538521		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	646	28	4.4	0.000108	114.5280	ug/L
Se	82	-3	2358	77	3.3	0.000514	391.1410	ug/L
Sr	88	94	41313	1408	3.4	0.008965	54.4891	ug/L
Y	89	67						ug/L
Mo	98	144	1870	44	2.4	0.000362	9.4070	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4593191	158795	3.5	4593191.166745	ug/L
Sn	120	17270	27601	966	3.5	0.000547	2.5672 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	1035	43	4.2	0.000198	1.1667 ug/L
Ce	140	36	49	4	7.7	-0.000001	0.0096 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	127.157
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	131.750
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	145.324
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-26

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:20:06

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 307

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-26.226

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5195684	1697655	32.7	4.182785	68843.8849	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	405629	112166	27.7	0.271522	53053.2095	ug/L
Sc	45	1256607	1244617	27601	2.2	1244616.598709		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5031	781	15.5	-0.000715	-2.5096	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	9262	2340	25.3	0.007164	32.3022	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	20761	6547	31.5	0.023856	311.9549	ug/L
Cu	63	85	43784	13669	31.2	0.050343	325.9649	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	902287	128087	14.2	902287.027418		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	775	154	19.9	0.000150	159.9802	ug/L
Se	82	-3	2104	545	25.9	0.000502	381.7767	ug/L
Sr	88	94	28474	8414	29.6	0.006788	41.2117	ug/L
Y	89	67						ug/L
Mo	98	144	2511	715	28.5	0.000555	14.3390	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4276909	414899	9.7	4276908.822092		ug/L
Sn	120	17270	21824	610	2.8	-0.000337	-9.8712	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	780	190	24.3	0.000159	0.9227	ug/L
Ce	140	36	38	9	23.4	-0.000002	0.0006	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	99.046
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	127.224
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	135.317
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-DUP1

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:22:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 308

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-DUP1.227

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4597597	38954	0.8	3.032197	49903.5613	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	358321	11594	3.2	0.181259	35496.0006	ug/L
Sc	45	1256607	1517438	59629	3.9	1517437.958664		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3928	50	1.3	-0.002171	-10.1712	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5765	146	2.5	0.003513	15.7917	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	15947	293	1.8	0.017302	226.1598	ug/L
Cu	63	85	33775	1230	3.6	0.036672	237.4491	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	918197	29636	3.2	918197.067611		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	523	24	4.5	0.000087	92.9003	ug/L
Se	82	-3	1361	59	4.3	0.000314	239.3046	ug/L
Sr	88	94	36500	1407	3.9	0.008375	50.8936	ug/L
Y	89	67						ug/L
Mo	98	144	1602	21	1.3	0.000324	8.4377	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4344046	176804	4.1	4344045.869797	ug/L
Sn	120	17270	24379	370	1.5	0.000153	-2.9732 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	803	21	2.6	0.000158	0.9154 ug/L
Ce	140	36	39	4	11.2	-0.000002	0.0009 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	120.757
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	129.467
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	137.441
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-MS1

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:23:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 309

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-MS1.228

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4694341	154242	3.3	2.869306	47222.1523	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	367825	6069	1.6	0.169967	33299.5382	ug/L
Sc	45	1256607	1635709	33518	2.0	1635708.658271		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4059	45	1.1	-0.002280	-10.7454	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5708	210	3.7	0.003202	14.3845	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	27175	733	2.7	0.028695	375.3061	ug/L
Cu	63	85	57023	995	1.7	0.060259	390.1716	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	944617	27131	2.9	944617.223018		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	469	24	5.1	0.000070	74.6238	ug/L
Se	82	-3	1290	88	6.8	0.000285	217.0772	ug/L
Sr	88	94	37459	1859	5.0	0.008227	49.9898	ug/L
Y	89	67						ug/L
Mo	98	144	1615	88	5.4	0.000310	8.1007	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4536246	196902	4.3	4536245.662324		ug/L
Sn	120	17270	25445	959	3.8	0.000146	-3.0680	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	836	17	2.0	0.000157	0.9117	ug/L
Ce	140	36	47	3	6.8	-0.000001	0.0080	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	130.169
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	133.193
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	143.522
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-MSD1

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:25:53

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 310

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-MSD1.229

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5138952	2296574	44.7	3.252093	53523.3664	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	394719	165375	41.9	0.193686	37913.2837	ug/L
Sc	45	1256607	1838665	641109	34.9	1838665.360031		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3973	707	17.8	-0.002367	-11.1996	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5817	2045	35.1	0.003332	14.9714	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	24967	11354	45.5	0.027075	354.0959	ug/L
Cu	63	85	52328	23437	44.8	0.056716	367.2330	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1059445	348328	32.9	1059445.483464		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	477	150	31.4	0.000071	75.3709	ug/L
Se	82	-3	1321	644	48.8	0.000298	226.6470	ug/L
Sr	88	94	40437	17305	42.8	0.008980	54.5813	ug/L
Y	89	67						ug/L
Mo	98	144	1849	782	42.3	0.000366	9.5093	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5053722	1479224	29.3	5053721.785185		ug/L
Sn	120	17270	28542	8491	29.7	0.000179	-2.6057	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	913	327	35.8	0.000174	1.0159	ug/L
Ce	140	36	45	9	20.0	-0.000002	0.0020	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	146.320
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	149.383
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	159.895
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-DUP2

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:27:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 311

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-DUP2.230

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6371130	327735	5.1	4.118939	67792.8867	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	447562	18555	4.1	0.234540	45859.8199	ug/L
Sc	45	1256607	1546779	80598	5.2	1546779.014806		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3906	83	2.1	-0.002235	-10.5035	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6929	387	5.6	0.004192	18.8611	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	20979	1321	6.3	0.022314	291.7663	ug/L
Cu	63	85	44178	2120	4.8	0.047056	304.6853	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	936882	54974	5.9	936882.270203		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	678	34	5.0	0.000119	126.9593	ug/L
Se	82	-3	881	69	7.8	0.000198	151.3902	ug/L
Sr	88	94	20930	948	4.5	0.004668	28.2879	ug/L
Y	89	67						ug/L
Mo	98	144	1428	74	5.2	0.000275	7.1955	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4455111	191262	4.3	4455111.134849		ug/L
Sn	120	17270	25646	815	3.2	0.000294	-0.9811	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2211	44	2.0	0.000470	2.8583	ug/L
Ce	140	36	48	2	3.2	-0.000001	0.0095	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	123.092
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	132.102
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	140.955
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-MS2

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:29:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 312

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-MS2.231

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5515813	2105259	38.2	3.015330	49625.9054	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	384159	132870	34.6	0.153860	30166.5491	ug/L
Sc	45	1256607	2070099	654513	31.6	2070099.245349		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3735	605	16.2	-0.002796	-13.4604	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	6001	1657	27.6	0.002932	13.1621	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	27678	10438	37.7	0.025430	332.5666	ug/L
Cu	63	85	57564	20483	35.6	0.052770	341.6833	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1198693	322986	26.9	1198692.681491		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	520	175	33.7	0.000067	71.5478	ug/L
Se	82	-3	703	264	37.6	0.000137	104.8984	ug/L
Sr	88	94	17750	6335	35.7	0.003411	20.6190	ug/L
Y	89	67						ug/L
Mo	98	144	1276	405	31.7	0.000200	5.2978	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5672400	1504730	26.5	5672399.727788		ug/L
Sn	120	17270	30857	7938	25.7	-0.000016	-5.3565	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1759	549	31.2	0.000311	1.8715	ug/L
Ce	140	36	51	6	11.2	-0.000002	0.0022	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	164.737
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	169.018
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	179.469
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121547-MSD2

Sample Description: 50x

Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:31:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 313

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121547-MSD2.232

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7961733	1322165	16.6	4.720794	77700.2749	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	542287	96600	17.8	0.267637	52297.4427	ug/L
Sc	45	1256607	1805424	469472	26.0	1805423.775773		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4369	334	7.6	-0.002203	-10.3366	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7871	1368	17.4	0.004395	19.7799	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	36410	5987	16.4	0.033878	443.1546	ug/L
Cu	63	85	75811	13600	17.9	0.070671	457.5864	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1106829	177092	16.0	1106828.566598		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	952	475	49.9	0.000153	163.4203	ug/L
Se	82	-3	1243	687	55.3	0.000245	186.9081	ug/L
Sr	88	94	26203	4299	16.4	0.005032	30.5026	ug/L
Y	89	67						ug/L
Mo	98	144	1820	359	19.7	0.000307	8.0072	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5294554	666364	12.6	5294553.899744	ug/L
Sn	120	17270	28661	5088	17.8	-0.000068	-6.0870 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	2549	432	17.0	0.000465	2.8302 ug/L
Ce	140	36	48	9	19.5	-0.000002	0.0007 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	143.674
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	156.065
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	167.515
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVE

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:33:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVD.233

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	12636592	205883	1.6	6.327858	2083.0970	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1210332	23680	2.0	0.551132	2148.8122	ug/L
Sc	45	1256607	1997556	62204	3.1	1997555.968431		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	203312	5352	2.6	0.097028	10.2374	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	611377	15421	2.5	0.305813	27.6578	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	44598	1547	3.5	0.040590	10.6204	ug/L
Cu	63	85	90282	2265	2.5	0.082215	10.6467	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1096581	31166	2.8	1096581.249443		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	5060	133	2.6	0.000974	20.8836	ug/L
Se	82	-3	6756	8	0.1	0.001346	20.4426	ug/L
Sr	88	94	460576	7945	1.7	0.091649	11.1739	ug/L
Y	89	67						ug/L
Mo	98	144	50258	450	0.9	0.009959	5.0832	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5025559	125503	2.5	5025558.675436		ug/L
Sn	120	17270	119188	694	0.6	0.018261	5.0384	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	926056	12643	1.4	0.184278	22.9462	ug/L
Ce	140	36	46452	494	1.1	0.009234	0.9214	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	158.964
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	154.620
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	159.004
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBE

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:35:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBD.234

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	2244	939	41.8	0.000994	0.1127	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	36009	419	1.2	-0.037262	-140.1755	ug/L
Sc	45	1256607	2044681	117456	5.7	2044680.786227		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2164	41	1.9	-0.003702	-0.3645	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1289	91	7.1	0.000346	0.0294	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	76	7	8.9	-0.000007	-0.0085	ug/L
Cu	63	85	290	31	10.5	0.000140	0.0182	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1118024	48174	4.3	1118024.499667		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	126	17	13.2	-0.000008	-0.1977	ug/L
Se	82	-3	20	3	17.0	0.000005	0.0901	ug/L
Sr	88	94	230	24	10.6	0.000015	-0.0017	ug/L
Y	89	67						ug/L
Mo	98	144	190	12	6.2	-0.000009	-0.0007	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5135791	318022	6.2	5135791.391882		ug/L
Sn	120	17270	27763	1329	4.8	-0.000053	-0.1175	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	187	60	32.0	0.000010	-0.0001	ug/L
Ce	140	36	54	6	10.8	-0.000001	0.0002	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	162.714
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	157.643
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	162.491
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-BLK1

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:37:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 308

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-BLK1.235

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	877714	99623	11.4	0.272931	89.6420	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	98814	8847	9.0	-0.024191	-89.3273	ug/L
Sc	45	1256607	3220976	71712	2.2	3220975.848456		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2904	225	7.8	-0.003861	-0.3813	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2089	124	5.9	0.000362	0.0308	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	2826	279	9.9	0.001384	0.3558	ug/L
Cu	63	85	5986	816	13.6	0.002970	0.3847	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1935543	55782	2.9	1935542.990494		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	172	37	21.6	-0.000014	-0.3177	ug/L
Se	82	-3	155	57	37.0	0.000018	0.2888	ug/L
Sr	88	94	6489	826	12.7	0.000689	0.0804	ug/L
Y	89	67						ug/L
Mo	98	144	356	37	10.5	-0.000006	0.0005	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	9020061	202515	2.2	9020061.268577		ug/L
Sn	120	17270	47555	522	1.1	-0.000191	-0.1562	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	306	14	4.6	0.000007	-0.0005	ug/L
Ce	140	36	66	7	10.7	-0.000004	-0.0002	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	256.323
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	272.915
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	285.386
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-BLK2

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:39:31

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 309

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-BLK2.236

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4337092	1658413	38.2	2.899944	954.5300	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	350765	117864	33.6	0.178293	698.3802	ug/L
Sc	45	1256607	1608147	331966	20.6	1608146.649517		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3883	653	16.8	-0.002229	-0.2095	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5093	1534	30.1	0.003074	0.2762	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	25383	9302	36.6	0.022571	5.9028	ug/L
Cu	63	85	52929	20001	37.8	0.047180	6.1097	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1231711	321651	26.1	1231711.479816		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	551	169	30.6	0.000073	1.5403	ug/L
Se	82	-3	1355	507	37.4	0.000263	4.0041	ug/L
Sr	88	94	35374	13170	37.2	0.006814	0.8275	ug/L
Y	89	67						ug/L
Mo	98	144	1538	524	34.1	0.000250	0.1315	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5658866	1424555	25.2	5658865.686406		ug/L
Sn	120	17270	27002	5524	20.5	-0.000658	-0.2878	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	774	215	27.8	0.000121	0.0137	ug/L
Ce	140	36	57	25	43.4	-0.000001	0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	127.975
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	173.673
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	179.041
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-BLK3

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:41:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 310

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-BLK3.237

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	7834459	109558	1.4	4.425042	1456.6356	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	581758	11248	1.9	0.273640	1069.3050	ug/L
Sc	45	1256607	1771157	57461	3.2	1771157.052574		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5191	91	1.7	-0.001831	-0.1676	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	8101	500	6.2	0.004284	0.3856	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	38498	881	2.3	0.038516	10.0772	ug/L
Cu	63	85	80404	485	0.6	0.080495	10.4239	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	997512	16762	1.7	997511.670414		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	591	30	5.1	0.000089	1.8882	ug/L
Se	82	-3	1992	42	2.1	0.000412	6.2695	ug/L
Sr	88	94	62453	807	1.3	0.012856	1.5644	ug/L
Y	89	67						ug/L
Mo	98	144	2670	43	1.6	0.000505	0.2614	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4847069	86190	1.8	4847069.276952		ug/L
Sn	120	17270	26768	683	2.6	0.000059	-0.0859	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1253	11	0.9	0.000231	0.0275	ug/L
Ce	140	36	40	3	6.2	-0.000003	-0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	140.948
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	140.651
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	153.357
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-BLK4

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:43:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 311

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-BLK4.238

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6871032	112106	1.6	4.162312	1370.1373	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	476550	7017	1.5	0.233764	914.1778	ug/L
Sc	45	1256607	1662144	175921	10.6	1662144.082441		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4231	60	1.4	-0.002195	-0.2059	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7255	218	3.0	0.004103	0.3692	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	22446	190	0.8	0.022059	5.7686	ug/L
Cu	63	85	47335	654	1.4	0.046549	6.0280	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1014359	17425	1.7	1014359.293808		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	638	79	12.4	0.000099	2.1078	ug/L
Se	82	-3	874	95	10.9	0.000182	2.7740	ug/L
Sr	88	94	22693	95	0.4	0.004659	0.5647	ug/L
Y	89	67						ug/L
Mo	98	144	1434	17	1.2	0.000251	0.1316	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4841127	107431	2.2	4841126.602418		ug/L
Sn	120	17270	26304	1002	3.8	-0.000031	-0.1114	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2279	13	0.6	0.000444	0.0539	ug/L
Ce	140	36	43	3	8.1	-0.000002	0.0000	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	132.272
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	143.026
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	153.169
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-BS1

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:45:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 312

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-BS1.239

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6995684	47765	0.7	3.970105	1306.8575	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	471129	4680	1.0	0.212503	831.4674	ug/L
Sc	45	1256607	1762512	40409	2.3	1762512.194747		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4166	34	0.8	-0.002398	-0.2272	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	7019	184	2.6	0.003695	0.3323	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	35101	388	1.1	0.034300	8.9734	ug/L
Cu	63	85	72374	414	0.6	0.070765	9.1639	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1021370	26288	2.6	1021370.187062		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	581	8	1.4	0.000087	1.8468	ug/L
Se	82	-3	720	21	2.9	0.000150	2.2878	ug/L
Sr	88	94	23269	257	1.1	0.004778	0.5791	ug/L
Y	89	67						ug/L
Mo	98	144	1618	40	2.5	0.000288	0.1509	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4843661	182818	3.8	4843661.159259		ug/L
Sn	120	17270	26400	914	3.5	-0.000013	-0.1062	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2241	66	3.0	0.000436	0.0530	ug/L
Ce	140	36	39	4	9.1	-0.000003	-0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	140.260
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	144.015
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	153.249
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-34

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:47:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 313

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-34.240

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8816240	160660	1.8	5.121169	1685.8205	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	589669	5975	1.0	0.287798	1124.3819	ug/L
Sc	45	1256607	1723371	83987	4.9	1723370.639226		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4675	48	1.0	-0.002047	-0.1903	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	8619	284	3.3	0.004717	0.4247	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	39867	487	1.2	0.040067	10.4834	ug/L
Cu	63	85	83373	564	0.7	0.083837	10.8567	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	993352	24938	2.5	993352.464812		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	649	58	8.9	0.000099	2.1011	ug/L
Se	82	-3	922	76	8.2	0.000188	2.8704	ug/L
Sr	88	94	29096	479	1.6	0.005868	0.7121	ug/L
Y	89	67						ug/L
Mo	98	144	1914	33	1.7	0.000342	0.1784	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4934315	114793	2.3	4934314.629172		ug/L
Sn	120	17270	28050	1118	4.0	0.000226	-0.0389	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	2829	72	2.6	0.000546	0.0667	ug/L
Ce	140	36	46	6	13.2	-0.000002	0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	137.145
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	140.064
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	156.117
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234002-03

Sample Description:

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:49:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 314

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234002-03.241

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	870	513	58.9	0.000315	-0.1107	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35307	383	1.1	-0.037337	-140.4667	ug/L
Sc	45	1256607	2009999	68880	3.4	2009999.488410		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2228	64	2.9	-0.003653	-0.3593	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1375	101	7.4	0.000399	0.0342	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	88	6	6.9	0.000004	-0.0057	ug/L
Cu	63	85	354	62	17.5	0.000202	0.0261	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1104898	36538	3.3	1104898.184988		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	120	8	6.8	-0.000009	-0.2153	ug/L
Se	82	-3	9	8	85.9	0.000003	0.0563	ug/L
Sr	88	94	167	7	4.1	0.000003	-0.0032	ug/L
Y	89	67						ug/L
Mo	98	144	48	18	36.8	-0.000036	-0.0147	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5026543	142532	2.8	5026542.969355		ug/L
Sn	120	17270	27917	513	1.8	0.000091	-0.0769	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	153	4	2.4	0.000003	-0.0009	ug/L
Ce	140	36	43	6	12.9	-0.000003	-0.0000	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	159.954
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	155.792
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	159.035
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-01

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:51:06

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 315

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-01.242

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	292	30	10.2	0.000019	-41.6302	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34160	338	1.0	-0.038203	-28767.1538	ug/L
Sc	45	1256607	2043780	43422	2.1	2043780.406147		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2106	83	3.9	-0.003731	-73.5212	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1031	60	5.8	0.000218	3.5549	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	77	10	12.4	-0.000007	-1.7112	ug/L
Cu	63	85	224	19	8.4	0.000079	2.0489	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1124431	27062	2.4	1124430.747678		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	113	5	4.4	-0.000011	-49.4969	ug/L
Se	82	-3	11	9	81.0	0.000003	12.7918	ug/L
Sr	88	94	170	7	4.2	0.000004	-0.6291	ug/L
Y	89	67						ug/L
Mo	98	144	40	12	29.4	-0.000038	-3.1098	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5058738	146579	2.9	5058737.582946		ug/L
Sn	120	17270	28334	343	1.2	0.000139	-12.6655	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	147	14	9.7	0.000002	-0.2243	ug/L
Ce	140	36	45	3	7.1	-0.000002	0.0029	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	162.643
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	158.547
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	160.054
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVF

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:53:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVE.243

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	61468263	1225258	2.0	31.631704	10413.8455	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	5215133	99080	1.9	2.628086	10228.6356	ug/L
Sc	45	1256607	1945843	97102	5.0	1945843.248421		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	395656	9896	2.5	0.198757	20.9444	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2918518	53587	1.8	1.501257	135.7814	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	210295	4915	2.3	0.199563	52.2416	ug/L
Cu	63	85	423242	11153	2.6	0.401717	52.0213	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1053753	36267	3.4	1053752.888604		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	9691	153	1.6	0.001936	41.5202	ug/L
Se	82	-3	13301	43	0.3	0.002705	41.0682	ug/L
Sr	88	94	2193209	54091	2.5	0.445519	54.3324	ug/L
Y	89	67						ug/L
Mo	98	144	246192	2539	1.0	0.049990	25.5014	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4924746	201730	4.1	4924746.472037		ug/L
Sn	120	17270	207183	4005	1.9	0.036632	10.2105	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	4809147	101825	2.1	0.977077	121.6711	ug/L
Ce	140	36	224534	4854	2.2	0.045614	4.5504	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	154.849
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	148.581
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	155.814
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBF

Sample Description:

Batch ID:

Sample Date/Time: Friday, September 14, 2012 23:55:02

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBE.244

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5350	3106	58.1	0.002547	0.6240	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34999	303	0.9	-0.037625	-141.5900	ug/L
Sc	45	1256607	2024876	53922	2.7	2024875.789230		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2091	37	1.8	-0.003729	-0.3674	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1218	235	19.3	0.000317	0.0267	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	89	17	19.2	0.000003	-0.0060	ug/L
Cu	63	85	213	35	16.4	0.000068	0.0088	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1135631	37014	3.3	1135630.872282		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	146	6	4.2	-0.000005	-0.1247	ug/L
Se	82	-3	35	3	7.5	0.000008	0.1330	ug/L
Sr	88	94	303	91	30.0	0.000029	-0.0001	ug/L
Y	89	67						ug/L
Mo	98	144	729	120	16.4	0.000095	0.0519	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5189534	165216	3.2	5189533.839843		ug/L
Sn	120	17270	28040	1540	5.5	-0.000063	-0.1203	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	410	202	49.4	0.000053	0.0052	ug/L
Ce	140	36	88	19	22.2	0.000006	0.0008	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	161.138
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	160.126
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	164.192
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-02

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:57:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 316

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-02.245

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	517	68	13.2	0.000126	-34.5822	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34377	404	1.2	-0.038295	-28838.6832	ug/L
Sc	45	1256607	2067980	22360	1.1	2067980.314676		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2091	7	0.3	-0.003751	-73.9460	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	842	33	3.9	0.000120	1.7923	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	75	8	10.1	-0.000009	-1.8138	ug/L
Cu	63	85	175	21	12.1	0.000034	0.8949	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1128879	9737	0.9	1128878.567017		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	119	8	6.8	-0.000010	-46.7573	ug/L
Se	82	-3	-1	7	559.9	0.000001	5.1051	ug/L
Sr	88	94	176	12	6.6	0.000004	-0.6163	ug/L
Y	89	67						ug/L
Mo	98	144	226	52	23.0	-0.000002	0.5461	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5164069	83377	1.6	5164069.335921		ug/L
Sn	120	17270	28241	828	2.9	0.000005	-20.2117	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	189	19	10.1	0.000009	-0.0350	ug/L
Ce	140	36	42	11	26.8	-0.000003	-0.0133	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	164.569
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	159.174
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	163.386
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-DUP1

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Friday, September 14, 2012 23:58:57

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 317

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-DUP1.246

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	359	19	5.2	0.000044	-39.9830	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34203	248	0.7	-0.038905	-29313.5382	ug/L
Sc	45	1256607	2135868	34780	1.6	2135867.579958		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2050	20	1.0	-0.003802	-75.0196	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	788	48	6.0	0.000082	1.0938	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	69	3	3.6	-0.000016	-2.1859	ug/L
Cu	63	85	150	3	2.1	0.000008	0.2199	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1168527	15439	1.3	1168527.456905		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	113	9	7.5	-0.000012	-55.6873	ug/L
Se	82	-3	6	12	183.1	0.000002	9.5044	ug/L
Sr	88	94	164	20	11.9	0.000001	-0.7024	ug/L
Y	89	67						ug/L
Mo	98	144	129	25	19.1	-0.000022	-1.4695	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5388291	79870	1.5	5388291.490603		ug/L
Sn	120	17270	29583	191	0.6	0.000027	-19.0019	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	159	19	12.2	0.000002	-0.2101	ug/L
Ce	140	36	42	2	4.8	-0.000003	-0.0205	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	169.971
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	164.764
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	170.480
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MS1

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:00:53

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 318

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MS1.247

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	416795	11960	2.9	0.203208	13337.4439	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	401223	10205	2.5	0.140861	110552.4339	ug/L
Sc	45	1256607	2050404	78466	3.8	2050404.274991		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	63765	786	1.2	0.026358	559.8602	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	25868	397	1.5	0.012338	222.7989	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	9469	60	0.6	0.008341	435.4175	ug/L
Cu	63	85	19209	402	2.1	0.016944	438.8398	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1125854	32565	2.9	1125854.430322		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	1166	60	5.1	0.000197	841.6021	ug/L
Se	82	-3	1503	65	4.3	0.000298	906.5417	ug/L
Sr	88	94	47995	819	1.7	0.009432	229.3462	ug/L
Y	89	67						ug/L
Mo	98	144	4120	117	2.8	0.000766	78.9073	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5079801	276167	5.4	5079801.472806		ug/L
Sn	120	17270	81672	1867	2.3	0.010633	578.1791	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	38723	301	0.8	0.007611	189.2814	ug/L
Ce	140	36	9613	92	1.0	0.001884	37.6415	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	163.170
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	158.747
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	160.720
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MSD1

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:02:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 319

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MSD1.248

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	14153	169	1.2	0.006801	404.9238	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	56593	342	0.6	-0.027238	-20236.0463	ug/L
Sc	45	1256607	2047451	100263	4.9	2047450.565325		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2046	54	2.6	-0.003762	-74.1742	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	902	24	2.7	0.000154	2.4069	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	82	10	12.3	-0.000003	-1.4834	ug/L
Cu	63	85	184	4	2.4	0.000043	1.1208	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1129064	61236	5.4	1129063.914824		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	123	11	8.6	-0.000009	-43.0279	ug/L
Se	82	-3	11	8	75.8	0.000003	12.2820	ug/L
Sr	88	94	1552	28	1.8	0.000271	5.8845	ug/L
Y	89	67						ug/L
Mo	98	144	93	22	23.1	-0.000028	-2.0805	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5174486	234343	4.5	5174486.446561		ug/L
Sn	120	17270	27973	1965	7.0	-0.000062	-24.0170	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	442	20	4.5	0.000058	1.1858	ug/L
Ce	140	36	47	8	17.4	-0.000002	0.0056	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	162.935
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	159.200
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	163.716
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-03

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:04:45

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 320

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-03.249

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	51782	696	1.3	0.024358	1560.9846	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	45313	368	0.8	-0.033495	-25104.0782	ug/L
Sc	45	1256607	2118914	107596	5.1	2118914.057793		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	1925	17	0.9	-0.003853	-76.0770	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1209	15	1.3	0.000284	4.7614	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	146	10	6.9	0.000051	1.3534	ug/L
Cu	63	85	335	26	7.8	0.000170	4.4127	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1153019	49663	4.3	1153018.588301		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	130	12	9.0	-0.000008	-39.1026	ug/L
Se	82	-3	6	8	132.3	0.000002	9.2119	ug/L
Sr	88	94	1868	32	1.7	0.000327	7.2625	ug/L
Y	89	67						ug/L
Mo	98	144	78	11	14.7	-0.000031	-2.4051	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5244572	348689	6.6	5244572.274797		ug/L
Sn	120	17270	27775	1812	6.5	-0.000168	-29.9431	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	389	28	7.3	0.000047	0.9116	ug/L
Ce	140	36	66	8	12.2	0.000001	0.0744	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	168.622
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	162.577
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	165.933
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-04

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:06:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 321

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-04.250

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	31685478	446432	1.4	15.698112	1033610.4613	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	969436	16785	1.7	0.425377	331919.2554	ug/L
Sc	45	1256607	2018467	18083	0.9	2018467.404029		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5591	181	3.2	-0.001993	-36.9281	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2753	85	3.1	0.001077	19.0949	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	165	16	9.4	0.000074	2.5545	ug/L
Cu	63	85	3315	40	1.2	0.002891	74.8666	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1100921	17491	1.6	1100920.721198		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	273	9	3.4	0.000021	85.4561	ug/L
Se	82	-3	240	38	15.7	0.000048	149.3606	ug/L
Sr	88	94	1373286	14079	1.0	0.270040	6586.1390	ug/L
Y	89	67						ug/L
Mo	98	144	489	14	3.0	0.000051	5.9039	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5086979	143440	2.8	5086978.615963		ug/L
Sn	120	17270	27863	215	0.8	0.000016	-19.6106	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1548	33	2.1	0.000277	6.6320	ug/L
Ce	140	36	38	5	12.0	-0.000004	-0.0284	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	160.628
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	155.232
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	160.947
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-05

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:08:36

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 322

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-05.251

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	31807798	603448	1.9	16.034135	1055736.0838	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	967812	15565	1.6	0.432860	337741.0488	ug/L
Sc	45	1256607	1984716	59628	3.0	1984716.352556		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5671	44	0.8	-0.001903	-35.0421	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2631	38	1.5	0.001039	18.4091	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	170	20	11.8	0.000083	3.0306	ug/L
Cu	63	85	3320	112	3.4	0.002983	77.2723	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1069731	37581	3.5	1069730.756169		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	275	19	7.1	0.000022	90.6756	ug/L
Se	82	-3	266	25	9.2	0.000054	167.2046	ug/L
Sr	88	94	1363244	36455	2.7	0.272161	6637.8835	ug/L
Y	89	67						ug/L
Mo	98	144	492	23	4.6	0.000052	6.0992	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5009593	166205	3.3	5009592.607829		ug/L
Sn	120	17270	27342	358	1.3	-0.000002	-20.6028	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1565	120	7.7	0.000285	6.8251	ug/L
Ce	140	36	48	8	16.3	-0.000002	0.0146	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	157.942
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	150.834
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	158.499
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-06

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:10:32

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 323

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-06.252

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	31840797	305223	1.0	15.928497	1048780.3115	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	977410	14359	1.5	0.434061	338675.6126	ug/L
Sc	45	1256607	1999136	17387	0.9	1999136.118109		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5691	72	1.3	-0.001916	-35.3076	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2689	34	1.3	0.001058	18.7525	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	188	14	7.7	0.000100	3.9075	ug/L
Cu	63	85	3463	147	4.2	0.003122	80.8525	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1068295	7685	0.7	1068294.740714		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	286	36	12.6	0.000023	97.5355	ug/L
Se	82	-3	243	26	10.7	0.000049	151.9363	ug/L
Sr	88	94	1399766	5450	0.4	0.276747	6749.7467	ug/L
Y	89	67						ug/L
Mo	98	144	489	23	4.6	0.000051	5.9474	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5057503	24775	0.5	5057503.114323		ug/L
Sn	120	17270	27925	613	2.2	0.000058	-17.2651	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1631	26	1.6	0.000295	7.0857	ug/L
Ce	140	36	36	7	19.2	-0.000004	-0.0341	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	159.090
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	150.631
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	160.014
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-07

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:12:27

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 324

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-07.253

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	31442912	667452	2.1	15.200126	1000820.1699	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	993439	34945	3.5	0.425437	331965.8766	ug/L
Sc	45	1256607	2069108	33374	1.6	2069107.908865		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5800	152	2.6	-0.001959	-36.2145	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	63291	998	1.6	0.030304	547.7947	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	175	19	10.8	0.000083	3.0257	ug/L
Cu	63	85	3460	93	2.7	0.003014	78.0667	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1104190	9588	0.9	1104189.588406		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	273	12	4.2	0.000019	79.5564	ug/L
Se	82	-3	255	30	11.8	0.000050	154.3551	ug/L
Sr	88	94	1463090	39324	2.7	0.280446	6839.9742	ug/L
Y	89	67						ug/L
Mo	98	144	469	12	2.6	0.000044	5.2679	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5216750	63427	1.2	5216749.566695		ug/L
Sn	120	17270	29191	1160	4.0	0.000130	-13.1634	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	96858	2600	2.7	0.018539	461.4466	ug/L
Ce	140	36	50	14	27.4	-0.000002	0.0142	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	164.658
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	155.692
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	165.053
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-08

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:14:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 325

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-08.254

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	32461034	269474	0.8	16.654067	1096555.9916	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	1002235	18221	1.8	0.459139	358187.3092	ug/L
Sc	45	1256607	1953091	113920	5.8	1953091.395712		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5725	33	0.6	-0.001825	-33.3917	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	63576	1196	1.9	0.032357	584.9296	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	181	11	6.0	0.000099	3.8378	ug/L
Cu	63	85	3410	75	2.2	0.003152	81.6339	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1042668	44126	4.2	1042668.498568		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	297	10	3.3	0.000028	116.1787	ug/L
Se	82	-3	259	29	11.2	0.000054	165.9533	ug/L
Sr	88	94	1472663	28718	2.0	0.301295	7348.5260	ug/L
Y	89	67						ug/L
Mo	98	144	472	14	3.0	0.000051	5.9321	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4897034	302769	6.2	4897034.497001		ug/L
Sn	120	17270	25818	2315	9.0	-0.000198	-31.6660	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	98055	728	0.7	0.020046	498.9854	ug/L
Ce	140	36	45	5	11.0	-0.000002	0.0069	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	155.426
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	147.018
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	154.937
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVG

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 00:16:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVF.255

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	60761469	580434	1.0	29.985583	9871.8956	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	5207291	84798	1.6	2.514485	9786.7035	ug/L
Sc	45	1256607	2026876	45827	2.3	2026876.122679		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	393004	8002	2.0	0.189149	19.9331	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2956290	58895	2.0	1.458404	131.9056	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	213498	3814	1.8	0.196452	51.4271	ug/L
Cu	63	85	436417	2813	0.6	0.401650	52.0127	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1086311	15016	1.4	1086310.778610		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	9673	136	1.4	0.001866	40.0210	ug/L
Se	82	-3	13384	246	1.8	0.002629	39.9120	ug/L
Sr	88	94	2173514	34980	1.6	0.426670	52.0335	ug/L
Y	89	67						ug/L
Mo	98	144	243811	4871	2.0	0.047821	24.3952	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5094057	83231	1.6	5094057.329728		ug/L
Sn	120	17270	206953	4140	2.0	0.035162	9.7966	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	4818406	115452	2.4	0.945817	117.7784	ug/L
Ce	140	36	225754	2603	1.2	0.044311	4.4205	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	161.297
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	153.172
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	161.171
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBG

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 00:18:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBF.256

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	8022	3844	47.9	0.003687	0.9993	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34934	703	2.0	-0.038263	-144.0695	ug/L
Sc	45	1256607	2097027	28333	1.4	2097026.531474		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2183	53	2.4	-0.003722	-0.3666	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1056	182	17.2	0.000215	0.0176	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	79	16	19.7	-0.000006	-0.0083	ug/L
Cu	63	85	245	34	13.9	0.000095	0.0123	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1139883	16089	1.4	1139883.227971		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	134	8	6.0	-0.000008	-0.1895	ug/L
Se	82	-3	30	13	44.3	0.000006	0.1133	ug/L
Sr	88	94	401	117	29.3	0.000045	0.0019	ug/L
Y	89	67						ug/L
Mo	98	144	703	117	16.6	0.000085	0.0473	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5348817	77615	1.5	5348817.203238	ug/L
Sn	120	17270	34965	1206	3.4	0.001072	0.1992 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	487	235	48.3	0.000064	0.0066 ug/L
Ce	140	36	97	27	27.6	0.000007	0.0009 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	166.880
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	160.725
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	169.231
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-09

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:20:18

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 326

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-09.257

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	22159051	498911	2.3	10.574983	696274.3531	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	707998	15425	2.2	0.282946	221101.0349	ug/L
Sc	45	1256607	2095381	30264	1.4	2095380.853469		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4630	108	2.3	-0.002553	-48.7104	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2620	18	0.7	0.000963	17.0407	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	147	12	8.1	0.000056	1.6119	ug/L
Cu	63	85	2447	126	5.2	0.002080	53.8822	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1111776	9476	0.9	1111775.710295		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	248	17	6.9	0.000014	54.9463	ug/L
Se	82	-3	181	25	13.5	0.000035	109.6005	ug/L
Sr	88	94	967643	20397	2.1	0.182442	4449.4392	ug/L
Y	89	67						ug/L
Mo	98	144	537	73	13.5	0.000056	6.4387	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5303987	74427	1.4	5303986.716465		ug/L
Sn	120	17270	29425	449	1.5	0.000084	-15.7814	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1396	54	3.9	0.000236	5.6092	ug/L
Ce	140	36	66	6	9.2	0.000001	0.0710	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	166.749
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	156.762
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	167.813
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-10

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:22:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 327

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-10.258

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	21612586	148588	0.7	10.873503	715930.6298	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	692562	8256	1.2	0.293485	229300.6711	ug/L
Sc	45	1256607	1994462	139539	7.0	1994461.874863		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4671	79	1.7	-0.002415	-45.8046	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3244	25	0.8	0.001344	23.9363	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	135	18	13.5	0.000049	1.2166	ug/L
Cu	63	85	2415	25	1.0	0.002110	54.6509	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1084723	57856	5.3	1084723.244667		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	245	20	8.0	0.000016	66.3503	ug/L
Se	82	-3	171	8	4.4	0.000035	109.7148	ug/L
Sr	88	94	960837	9959	1.0	0.192457	4693.7168	ug/L
Y	89	67						ug/L
Mo	98	144	453	17	3.8	0.000045	5.3327	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5007755	349363	7.0	5007755.259181		ug/L
Sn	120	17270	26405	1995	7.6	-0.000192	-31.3021	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1371	40	2.9	0.000248	5.8963	ug/L
Ce	140	36	50	11	21.4	-0.000001	0.0261	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	158.718
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	152.948
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	158.440
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-11

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:24:10

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 328

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-11.259

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	10609	10415	98.2	0.004734	268.8131	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	37219	783	2.1	-0.043212	-32664.5308	ug/L
Sc	45	1256607	4188703	2157737	51.5	4188703.427895		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2405	212	8.8	-0.003976	-78.6706	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	904	323	35.8	-0.000038	-1.0657	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	64	10	15.9	-0.000041	-3.4564	ug/L
Cu	63	85	207	19	9.1	-0.000004	-0.0924	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	2306193	1249146	54.2	2306193.056579		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	102	29	28.6	-0.000022	-98.6796	ug/L
Se	82	-3	6	17	259.7	0.000002	9.5895	ug/L
Sr	88	94	582	224	38.5	0.000053	0.5828	ug/L
Y	89	67						ug/L
Mo	98	144	113	52	46.1	-0.000034	-2.7356	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	10690039	5558880	52.0	10690038.938403	ug/L
Sn	120	17270	60589	27290	45.0	0.000465	5.6643 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	199	84	42.2	-0.000008	-0.4579 ug/L
Ce	140	36	83	24	29.0	-0.000003	-0.0011 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	333.334
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	325.177
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	338.222
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-12

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:26:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 329

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-12.260

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	31391945	863178	2.7	15.216626	1001906.6692	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	975979	22999	2.4	0.418190	326327.1014	ug/L
Sc	45	1256607	2062726	26602	1.3	2062726.335265		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5910	119	2.0	-0.001897	-34.9168	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3107	116	3.7	0.001219	21.6629	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	173	7	3.8	0.000080	2.8510	ug/L
Cu	63	85	3357	150	4.5	0.002891	74.8918	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1114102	21195	1.9	1114102.490887		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	305	29	9.6	0.000025	104.6860	ug/L
Se	82	-3	258	31	12.2	0.000050	155.3900	ug/L
Sr	88	94	1363508	16437	1.2	0.260492	6353.2456	ug/L
Y	89	67						ug/L
Mo	98	144	511	34	6.7	0.000052	6.0574	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5233946	80391	1.5	5233946.001700		ug/L
Sn	120	17270	29184	918	3.1	0.000111	-14.2609	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1692	42	2.5	0.000296	7.1025	ug/L
Ce	140	36	39	6	14.0	-0.000004	-0.0260	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	164.150
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	157.090
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	165.597
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-DUP2

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:28:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 330

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-DUP2.261

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1840768	22157	1.2	0.854224	56204.0598	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	105298	1145	1.1	-0.006048	-3749.5346	ug/L
Sc	45	1256607	2157331	106039	4.9	2157331.487723		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2440	32	1.3	-0.003629	-71.3735	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2409	32	1.3	0.000831	14.6454	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	81	3	3.1	-0.000006	-1.6668	ug/L
Cu	63	85	417	11	2.5	0.000234	6.0757	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1175791	39564	3.4	1175790.732345		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	129	11	8.2	-0.000009	-42.2056	ug/L
Se	82	-3	14	12	84.1	0.000003	13.4639	ug/L
Sr	88	94	81827	1705	2.1	0.015151	368.8574	ug/L
Y	89	67						ug/L
Mo	98	144	100	2	2.0	-0.000027	-2.0164	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5393422	190912	3.5	5393422.122654		ug/L
Sn	120	17270	29659	1003	3.4	0.000035	-18.5146	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	886	45	5.1	0.000137	3.1440	ug/L
Ce	140	36	49	5	10.8	-0.000002	0.0057	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	171.679
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	165.788
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	170.643
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MS2

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:29:59

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 331

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MS2.262

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	77399	1186	1.5	0.034918	2256.3271	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	54498	389	0.7	-0.030244	-22574.7114	ug/L
Sc	45	1256607	2209954	72920	3.3	2209953.565728		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2187	85	3.9	-0.003772	-74.3713	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2347	31	1.3	0.000776	13.6515	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	77	8	9.9	-0.000012	-1.9367	ug/L
Cu	63	85	193	11	5.8	0.000041	1.0670	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1195832	22998	1.9	1195831.636312		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	122	11	9.1	-0.000011	-50.4392	ug/L
Se	82	-3	-2	4	221.0	0.000001	4.9815	ug/L
Sr	88	94	8965	58	0.6	0.001600	38.3027	ug/L
Y	89	67						ug/L
Mo	98	144	77	10	13.6	-0.000032	-2.4820	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5503232	126075	2.3	5503232.412959		ug/L
Sn	120	17270	30179	1240	4.1	0.000018	-19.4641	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	683	12	1.7	0.000097	2.1443	ug/L
Ce	140	36	50	2	4.2	-0.000002	0.0040	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	175.867
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	168.614
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	174.117
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MSD2

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:31:55

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 332

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MSD2.263

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	481102	6602	1.4	0.222500	14607.7543	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	65519	598	0.9	-0.024598	-18181.7482	ug/L
Sc	45	1256607	2161952	71051	3.3	2161951.576346		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2268	8	0.4	-0.003713	-73.1320	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1995	53	2.7	0.000636	11.1261	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	62	3	4.8	-0.000022	-2.4838	ug/L
Cu	63	85	196	19	9.5	0.000049	1.2731	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1156185	22268	1.9	1156185.282314		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	128	20	15.7	-0.000009	-43.9055	ug/L
Se	82	-3	23	10	45.0	0.000005	18.8114	ug/L
Sr	88	94	25845	350	1.4	0.004766	115.5305	ug/L
Y	89	67						ug/L
Mo	98	144	69	16	22.7	-0.000033	-2.6119	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5392483	141994	2.6	5392482.942206		ug/L
Sn	120	17270	30236	1037	3.4	0.000143	-12.4457	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	687	47	6.9	0.000100	2.2238	ug/L
Ce	140	36	46	6	11.9	-0.000003	-0.0048	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	172.047
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	163.024
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	170.613
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-13

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:33:50

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 333

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-13.264

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	26538029	491195	1.9	13.120995	863918.3035	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	823942	20037	2.4	0.352365	275112.1727	ug/L
Sc	45	1256607	2023394	53038	2.6	2023393.796662		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	5325	142	2.7	-0.002129	-39.7867	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2781	79	2.9	0.001088	19.3079	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	161	14	8.6	0.000073	2.4863	ug/L
Cu	63	85	2743	145	5.3	0.002411	62.4575	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1083055	22122	2.0	1083054.809408		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	276	14	5.2	0.000021	87.0565	ug/L
Se	82	-3	204	33	16.1	0.000041	127.2945	ug/L
Sr	88	94	1157439	36687	3.2	0.226979	5535.8029	ug/L
Y	89	67						ug/L
Mo	98	144	407	33	8.0	0.000034	4.2294	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5099717	172403	3.4	5099717.019761		ug/L
Sn	120	17270	28296	646	2.3	0.000086	-15.6605	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1570	62	3.9	0.000281	6.7242	ug/L
Ce	140	36	43	6	14.5	-0.000003	-0.0073	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	161.020
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	152.712
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	161.350
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-14

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:35:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 334

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-14.265

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4934902	22717	0.5	2.400795	158039.1619	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	194324	2040	1.1	0.039610	31774.4631	ug/L
Sc	45	1256607	2056573	64002	3.1	2056573.328056		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2833	86	3.0	-0.003384	-66.2025	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	5143	91	1.8	0.002214	39.6746	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	85	11	13.1	-0.000000	-1.3382	ug/L
Cu	63	85	688	14	2.0	0.000490	12.7036	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1126174	11345	1.0	1126174.432641		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	153	20	13.3	-0.000004	-18.5804	ug/L
Se	82	-3	48	17	36.3	0.000010	33.8126	ug/L
Sr	88	94	220034	2531	1.2	0.042474	1035.3155	ug/L
Y	89	67						ug/L
Mo	98	144	118	16	13.4	-0.000023	-1.5961	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5176754	49440	1.0	5176754.423798		ug/L
Sn	120	17270	29493	927	3.1	0.000232	-7.4202	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	785	7	0.9	0.000124	2.8283	ug/L
Ce	140	36	46	5	9.7	-0.000002	0.0024	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	163.661
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	158.792
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	163.787
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-15

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:37:42

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 335

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-15.266

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	75817	1444	1.9	0.036980	2392.0397	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	53237	76	0.1	-0.028863	-21500.2469	ug/L
Sc	45	1256607	2044011	56422	2.8	2044011.319280		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2224	61	2.7	-0.003674	-72.3139	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2650	58	2.2	0.001009	17.8775	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	70	16	22.3	-0.000014	-2.0631	ug/L
Cu	63	85	190	24	12.8	0.000048	1.2370	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1130924	39055	3.5	1130923.989945		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	123	11	8.8	-0.000009	-42.6288	ug/L
Se	82	-3	11	9	76.3	0.000003	12.7992	ug/L
Sr	88	94	9053	84	0.9	0.001735	41.5915	ug/L
Y	89	67						ug/L
Mo	98	144	48	15	32.0	-0.000036	-2.9625	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

>	In	115	3160654	5135988	219494	4.3	5135988.250665		ug/L
	Sn	120	17270	28858	2016	7.0	0.000153	-11.9095	ug/L
	Sb	121	224						ug/L
	Cs	133	20						ug/L
	Ba	138	86	733	28	3.9	0.000116	2.6128	ug/L
	Ce	140	36	47	12	25.2	-0.000002	0.0071	ug/L
>	Tm	169	2730830						ug/L
	Tl	205	25						ug/L
	Pb	208	143						ug/L
	Bi	209	261						ug/L
	Th	232	199						ug/L
	U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery	
Li	7		
Be	9		
B	11		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc	45	162.661
	Ti	47	
	Ti	48	
	V	51	
	Cr	52	
	Cr	53	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Ni	62	
	Cu	65	
	Cu	63	
	Zn	66	
	Zn	68	
>	Ge	74	159.462
	As	75	
	As-1	75	
	Se	77	
	Se	82	
	Sr	88	
	Y	89	
	Mo	98	
	Ag	107	
	Ag	109	
	Cd	111	
	Cd	114	
>	In	115	162.498
	Sn	120	
	Sb	121	
	Cs	133	
	Ba	138	
	Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVH

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 00:39:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVG.267

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	59688061	1027842	1.7	29.681510	9771.7860	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	5108200	76745	1.5	2.485302	9673.1739	ug/L
Sc	45	1256607	2011272	47988	2.4	2011272.384335		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	380073	6043	1.6	0.184232	19.4157	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2901543	10669	0.4	1.442905	130.5037	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	208924	2272	1.1	0.196765	51.5090	ug/L
Cu	63	85	430206	2603	0.6	0.405164	52.4678	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1061587	13241	1.2	1061587.191997		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	9531	311	3.3	0.001821	39.0425	ug/L
Se	82	-3	13024	136	1.0	0.002533	38.4653	ug/L
Sr	88	94	2152856	33642	1.6	0.418415	51.0266	ug/L
Y	89	67						ug/L
Mo	98	144	243068	2866	1.2	0.047211	24.0839	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5146832	156028	3.0	5146831.888670		ug/L
Sn	120	17270	205626	2443	1.2	0.034510	9.6130	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	4843276	96567	2.0	0.941376	117.2254	ug/L
Ce	140	36	225088	4547	2.0	0.043735	4.3630	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	160.056
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	149.685
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	162.841
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBH

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 00:41:37

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBG.268

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5781	2873	49.7	0.002644	0.6559	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34875	397	1.1	-0.038229	-143.9386	ug/L
Sc	45	1256607	2089463	17517	0.8	2089462.507752		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2112	61	2.9	-0.003752	-0.3698	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	831	171	20.6	0.000111	0.0081	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	80	13	16.1	-0.000004	-0.0077	ug/L
Cu	63	85	195	25	12.8	0.000053	0.0069	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1123223	9878	0.9	1123223.338291		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	125	11	8.8	-0.000010	-0.2241	ug/L
Se	82	-3	43	9	20.0	0.000009	0.1511	ug/L
Sr	88	94	320	83	25.9	0.000030	0.0001	ug/L
Y	89	67						ug/L
Mo	98	144	737	112	15.1	0.000093	0.0510	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5332831	58101	1.1	5332830.629508	ug/L
Sn	120	17270	34675	488	1.4	0.001038	0.1898 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	358	180	50.4	0.000040	0.0036 ug/L
Ce	140	36	86	26	30.3	0.000005	0.0007 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	166.278
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	158.376
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	168.726
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-16

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:43:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 336

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-16.269

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	76930	1994	2.6	0.036756	2377.3552	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	53794	695	1.3	-0.029143	-21718.5964	ug/L
Sc	45	1256607	2089697	86777	4.2	2089697.169246		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2154	82	3.8	-0.003732	-73.5271	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2572	58	2.2	0.000945	16.7213	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	71	13	17.6	-0.000013	-2.0248	ug/L
Cu	63	85	161	10	6.0	0.000020	0.5245	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1143788	41487	3.6	1143788.260514		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	117	7	6.2	-0.000011	-51.8587	ug/L
Se	82	-3	16	10	60.0	0.000004	15.1050	ug/L
Sr	88	94	8700	531	6.1	0.001590	38.0736	ug/L
Y	89	67						ug/L
Mo	98	144	233	52	22.3	-0.000002	0.5346	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5385933	244067	4.5	5385933.286422		ug/L
Sn	120	17270	29481	1466	5.0	0.000009	-19.9757	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	668	16	2.4	0.000097	2.1477	ug/L
Ce	140	36	58	6	10.2	-0.000001	0.0374	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	166.297
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	161.276
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	170.406
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-17

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:45:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 337

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-17.270

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	402432	15492	3.8	0.192713	12646.4333	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	81928	1682	2.1	-0.015642	-11214.1774	ug/L
Sc	45	1256607	2088000	91323	4.4	2087999.741023		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2114	30	1.4	-0.003749	-73.8864	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	65823	2278	3.5	0.031263	565.1411	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	71	8	10.6	-0.000012	-1.9475	ug/L
Cu	63	85	152	7	4.4	0.000016	0.4196	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1114674	45177	4.1	1114674.439771		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	112	13	11.6	-0.000012	-55.0830	ug/L
Se	82	-3	1	7	701.4	0.000001	6.3320	ug/L
Sr	88	94	126538	3381	2.7	0.023741	578.3735	ug/L
Y	89	67						ug/L
Mo	98	144	132	29	21.6	-0.000021	-1.3946	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5335250	284096	5.3	5335250.352058		ug/L
Sn	120	17270	29441	1670	5.7	0.000053	-17.4938	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	99396	3167	3.2	0.018629	463.6916	ug/L
Ce	140	36	64	7	11.4	0.000001	0.0626	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	166.162
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	157.171
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	168.802
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-18

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:47:30

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 338

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-18.271

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	405970	7437	1.8	0.195589	12835.7990	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	81740	951	1.2	-0.015513	-11113.4375	ug/L
Sc	45	1256607	2074213	26101	1.3	2074212.558234		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2118	72	3.4	-0.003741	-73.7268	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	64987	2304	3.5	0.031038	561.0652	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	68	5	6.9	-0.000015	-2.1077	ug/L
Cu	63	85	150	11	7.3	0.000013	0.3488	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	1123280	16228	1.4	1123279.677008		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	122	7	5.6	-0.000010	-46.7908	ug/L
Se	82	-3	-5	19	383.5	-0.000000	2.9457	ug/L
Sr	88	94	123627	3160	2.6	0.023294	567.4839	ug/L
Y	89	67						ug/L
Mo	98	144	102	31	30.9	-0.000026	-1.9520	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	5300070	102872	1.9	5300070.046914	ug/L
Sn	120	17270	29373	372	1.3	0.000078	-16.0879 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	97574	2127	2.2	0.018382	457.5452 ug/L
Ce	140	36	112	6	5.2	0.000010	0.2445 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	165.064
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	158.384
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	167.689
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-19

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:49:27

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 339

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-19.272

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	4543655	114005	2.5	2.742977	180570.3846	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	175946	3468	2.0	0.051302	40871.8531	ug/L
Sc	45	1256607	1656296	8732	0.5	1656296.254376		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2701	33	1.2	-0.003132	-60.9085	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2097	49	2.3	0.000979	17.3235	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	70	3	3.8	0.000001	-1.2676	ug/L
Cu	63	85	522	29	5.5	0.000454	11.7494	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	910325	2326	0.3	910325.134955		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	133	17	12.6	-0.000002	-10.5781	ug/L
Se	82	-3	48	15	30.8	0.000012	40.2222	ug/L
Sr	88	94	196319	3251	1.7	0.046230	1126.9310	ug/L
Y	89	67						ug/L
Mo	98	144	140	10	7.4	-0.000013	-0.5341	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4244636	58616	1.4	4244636.285233		ug/L
Sn	120	17270	23963	310	1.3	0.000181	-10.2923	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	751	22	3.0	0.000150	3.4612	ug/L
Ce	140	36	47	9	19.4	-0.000000	0.0433	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	131.807
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	128.357
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	134.296
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-20

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:51:23

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 340

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-20.273

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	9574776	169246	1.8	6.032812	397191.8704	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	323741	6233	1.9	0.149076	116944.5939	ug/L
Sc	45	1256607	1587016	19210	1.2	1587015.738840		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3069	52	1.7	-0.002829	-54.5211	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2076	30	1.4	0.001021	18.0901	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	74	16	21.3	0.000008	-0.9259	ug/L
Cu	63	85	987	68	6.9	0.000990	25.6518	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	887770	32410	3.7	887769.584962		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	140	13	9.3	0.000001	1.3634	ug/L
Se	82	-3	41	6	13.5	0.000011	36.1908	ug/L
Sr	88	94	412033	9694	2.4	0.100721	2456.0916	ug/L
Y	89	67						ug/L
Mo	98	144	189	9	4.6	0.000001	0.8044	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4090652	132931	3.2	4090651.704100		ug/L
Sn	120	17270	22920	719	3.1	0.000139	-12.6726	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	890	32	3.5	0.000191	4.4795	ug/L
Ce	140	36	42	6	15.0	-0.000001	0.0299	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	126.294
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	125.177
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	129.424
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-21

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:53:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 341

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-21.274

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	15282193	83749	0.5	9.393993	618511.2685	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	487406	12170	2.5	0.244602	191267.9432	ug/L
Sc	45	1256607	1627180	31919	2.0	1627180.085948		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3652	38	1.0	-0.002518	-47.9794	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2451	66	2.7	0.001219	21.6671	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	106	5	4.9	0.000044	0.9551	ug/L
Cu	63	85	1578	88	5.5	0.001662	43.0471	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	885274	24754	2.8	885273.851701		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	165	6	3.9	0.000006	22.1217	ug/L
Se	82	-3	105	13	12.2	0.000026	81.4873	ug/L
Sr	88	94	656983	11805	1.8	0.155659	3796.1454	ug/L
Y	89	67						ug/L
Mo	98	144	262	38	14.4	0.000016	2.4196	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4219943	59892	1.4	4219942.811547		ug/L
Sn	120	17270	22958	720	3.1	-0.000025	-21.8899	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1066	42	3.9	0.000225	5.3427	ug/L
Ce	140	36	42	5	11.7	-0.000001	0.0242	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	129.490
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.825
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	133.515
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-22

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:55:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 342

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-22.275

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23468114	469548	2.0	15.330903	1009431.3110	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	718313	6702	0.9	0.414319	323315.0789	ug/L
Sc	45	1256607	1532924	62488	4.1	1532923.889809		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4373	2	0.0	-0.001906	-35.1087	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2609	70	2.7	0.001417	25.2529	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	135	11	8.1	0.000085	3.0936	ug/L
Cu	63	85	2310	80	3.5	0.002626	68.0051	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	842122	20325	2.4	842121.846798		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	212	16	7.7	0.000021	85.2831	ug/L
Se	82	-3	148	8	5.6	0.000038	119.6916	ug/L
Sr	88	94	996634	27581	2.8	0.252576	6160.1609	ug/L
Y	89	67						ug/L
Mo	98	144	383	40	10.3	0.000051	5.9922	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3947621	128110	3.2	3947621.494038		ug/L
Sn	120	17270	22503	56	0.2	0.000240	-6.9695	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1354	85	6.3	0.000316	7.5956	ug/L
Ce	140	36	34	5	15.2	-0.000003	-0.0054	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	121.989
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	118.741
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	124.899
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-DUP3

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:57:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 343

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-DUP3.276

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	21976608	360192	1.6	14.145207	931358.2778	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	671775	10967	1.6	0.377514	294679.5619	ug/L
Sc	45	1256607	1555033	69613	4.5	1555033.318380		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4298	35	0.8	-0.001994	-36.9541	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2467	63	2.5	0.001300	23.1432	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	115	16	13.5	0.000058	1.7063	ug/L
Cu	63	85	2133	62	2.9	0.002360	61.1302	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	860697	30663	3.6	860697.059643		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	231	31	13.4	0.000025	101.9498	ug/L
Se	82	-3	130	18	14.0	0.000033	104.5288	ug/L
Sr	88	94	933053	14338	1.5	0.233726	5700.3597	ug/L
Y	89	67						ug/L
Mo	98	144	351	27	7.7	0.000042	5.0460	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3996639	190835	4.8	3996639.331190		ug/L
Sn	120	17270	22022	1090	5.0	0.000046	-17.9230	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1268	43	3.4	0.000290	6.9570	ug/L
Ce	140	36	33	10	30.2	-0.000003	-0.0100	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	123.749
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	121.360
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	126.450
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MS3

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 00:59:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 344

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MS3.277

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	20346542	456800	2.2	12.481840	821832.7298	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	625873	14951	2.4	0.329085	256999.3914	ug/L
Sc	45	1256607	1630149	24654	1.5	1630148.660030		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4326	107	2.5	-0.002109	-39.3744	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2903	50	1.7	0.001494	26.6430	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	123	17	13.6	0.000063	1.9717	ug/L
Cu	63	85	2077	22	1.0	0.002224	57.6138	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	885642	9488	1.1	885641.779354		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	218	6	2.9	0.000019	80.0056	ug/L
Se	82	-3	134	33	24.6	0.000033	104.1568	ug/L
Sr	88	94	874191	38119	4.4	0.210405	5131.5104	ug/L
Y	89	67						ug/L
Mo	98	144	329	7	2.1	0.000034	4.1776	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4153384	92996	2.2	4153384.036519		ug/L
Sn	120	17270	23300	51	0.2	0.000148	-12.1933	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1292	16	1.2	0.000284	6.8034	ug/L
Ce	140	36	38	15	39.5	-0.000002	0.0086	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	129.726
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.877
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	131.409
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MSD3

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:01:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 345

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MSD3.278

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	24755927	745181	3.0	15.287104	1006547.3344	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	749912	25668	3.4	0.408140	318508.1170	ug/L
Sc	45	1256607	1619171	32026	2.0	1619171.353160		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4677	61	1.3	-0.001874	-34.4149	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2145	78	3.6	0.001037	18.3828	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	137	12	8.7	0.000079	2.8009	ug/L
Cu	63	85	2546	66	2.6	0.002759	71.4577	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	884113	4244	0.5	884112.584890		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	231	19	8.4	0.000023	95.2737	ug/L
Se	82	-3	156	8	5.0	0.000039	120.8127	ug/L
Sr	88	94	1049894	20432	1.9	0.254417	6205.0723	ug/L
Y	89	67						ug/L
Mo	98	144	383	17	4.4	0.000047	5.5558	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4127210	56846	1.4	4127210.020731		ug/L
Sn	120	17270	22945	180	0.8	0.000096	-15.1106	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1289	17	1.3	0.000285	6.8312	ug/L
Ce	140	36	39	12	31.1	-0.000002	0.0104	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	128.853
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.661
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	130.581
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVI

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:03:00

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVH.279

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	48624690	880141	1.8	28.830224	9491.5184	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	4056730	129259	3.2	2.350175	9147.5007	ug/L
Sc	45	1256607	1688926	65356	3.9	1688926.077589		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	304411	8114	2.7	0.175767	18.5247	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2297784	81118	3.5	1.362587	123.2392	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	168258	4642	2.8	0.182192	47.6936	ug/L
Cu	63	85	338143	14843	4.4	0.366306	47.4357	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	924584	33741	3.6	924584.393995		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	7759	71	0.9	0.001778	38.1311	ug/L
Se	82	-3	10501	165	1.6	0.002453	37.2408	ug/L
Sr	88	94	1661996	48347	2.9	0.388089	47.3281	ug/L
Y	89	67						ug/L
Mo	98	144	194364	4496	2.3	0.045342	23.1308	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4284783	86488	2.0	4284783.173442		ug/L
Sn	120	17270	166562	1739	1.0	0.033423	9.3071	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3985064	99897	2.5	0.930526	115.8743	ug/L
Ce	140	36	187874	5852	3.1	0.043864	4.3759	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	134.404
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	130.368
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	135.566
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBI

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:04:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBH.280

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5580	2297	41.2	0.003286	0.8675	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34614	299	0.9	-0.033776	-126.6156	ug/L
Sc	45	1256607	1637197	15315	0.9	1637196.673645		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2217	55	2.5	-0.003409	-0.3336	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	775	135	17.4	0.000186	0.0149	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	75	17	21.9	0.000007	-0.0049	ug/L
Cu	63	85	204	37	18.1	0.000103	0.0133	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	914153	4541	0.5	914152.777493		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	118	2	1.8	-0.000005	-0.1318	ug/L
Se	82	-3	14	19	129.6	0.000004	0.0806	ug/L
Sr	88	94	283	73	25.6	0.000037	0.0009	ug/L
Y	89	67						ug/L
Mo	98	144	639	82	12.8	0.000105	0.0572	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4243225	29093	0.7	4243225.463949	ug/L
Sn	120	17270	27995	416	1.5	0.001134	0.2166 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	343	138	40.3	0.000054	0.0054 ug/L
Ce	140	36	78	20	25.8	0.000007	0.0009 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	130.287
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	128.897
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	134.252
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	TI	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-23

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:06:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 346

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-23.281

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	21626925	340820	1.6	13.939376	917805.1822	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	670174	5372	0.8	0.377289	294504.0772	ug/L
Sc	45	1256607	1560512	153049	9.8	1560512.270557		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4142	29	0.7	-0.002090	-38.9807	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2475	61	2.5	0.001311	23.3306	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	124	8	6.6	0.000069	2.2935	ug/L
Cu	63	85	2104	62	2.9	0.002346	60.7663	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	855591	62079	7.3	855590.584360		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	213	5	2.3	0.000020	83.3844	ug/L
Se	82	-3	160	15	9.2	0.000041	127.9481	ug/L
Sr	88	94	913514	20507	2.2	0.229170	5589.2386	ug/L
Y	89	67						ug/L
Mo	98	144	494	47	9.4	0.000078	8.6741	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4004095	340076	8.5	4004095.357624		ug/L
Sn	120	17270	21765	2532	11.6	-0.000038	-22.6675	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1293	52	4.0	0.000298	7.1428	ug/L
Ce	140	36	46	14	30.2	0.000000	0.0524	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	124.185
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	120.640
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	126.686
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-24

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:08:51

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 347

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-24.282

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	22424941	702862	3.1	15.529257	1022492.0846	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	675602	21278	3.1	0.412944	322245.6970	ug/L
Sc	45	1256607	1443955	10031	0.7	1443954.669009		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4138	53	1.3	-0.001897	-34.9109	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1930	55	2.8	0.001049	18.6025	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	119	7	6.1	0.000075	2.5915	ug/L
Cu	63	85	2225	77	3.4	0.002703	70.0189	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	787817	5161	0.7	787816.501063		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	227	9	4.1	0.000028	118.9336	ug/L
Se	82	-3	116	15	12.6	0.000032	101.6910	ug/L
Sr	88	94	943383	20331	2.2	0.256318	6251.4356	ug/L
Y	89	67						ug/L
Mo	98	144	420	24	5.6	0.000068	7.7243	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3680156	13148	0.4	3680156.026529		ug/L
Sn	120	17270	20513	143	0.7	0.000110	-14.3110	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1168	56	4.8	0.000290	6.9601	ug/L
Ce	140	36	42	8	18.0	0.000000	0.0517	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.909
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.083
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.437
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-25

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:10:45

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 348

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-25.283

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	22931497	267472	1.2	16.103956	1060333.5263	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	697190	10280	1.5	0.434647	339131.6469	ug/L
Sc	45	1256607	1424954	53782	3.8	1424954.273274		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4163	77	1.8	-0.001839	-33.6904	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2326	84	3.6	0.001345	23.9458	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	123	8	6.2	0.000079	2.8145	ug/L
Cu	63	85	2279	58	2.6	0.002757	71.4155	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	791784	15338	1.9	791784.057258		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	218	12	5.4	0.000027	111.9596	ug/L
Se	82	-3	141	19	13.8	0.000040	123.3894	ug/L
Sr	88	94	954873	13781	1.4	0.263275	6421.1333	ug/L
Y	89	67						ug/L
Mo	98	144	415	33	8.0	0.000069	7.7523	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3627952	105272	2.9	3627951.537815		ug/L
Sn	120	17270	20343	864	4.2	0.000143	-12.4481	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1248	22	1.8	0.000317	7.6254	ug/L
Ce	140	36	45	5	10.3	0.000001	0.0694	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.397
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.643
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.785
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-26
Sample Description: 200x
Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:12:42
 Diluted To Volume (mL): 5.00
 Aliquot Volume (mL): 0.025
 Autosampler Position: 349

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam
 Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth
 Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-26.284
 Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
 Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23352359	353107	1.5	16.444012	1082724.7275	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	703326	17696	2.5	0.440230	343475.2443	ug/L
Sc	45	1256607	1420530	40697	2.9	1420530.015481		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4353	77	1.8	-0.001697	-30.7041	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2337	107	4.6	0.001358	24.1752	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	107	5	4.9	0.000060	1.8029	ug/L
Cu	63	85	2303	136	5.9	0.002797	72.4376	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	789193	11431	1.4	789193.402537		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	212	19	8.9	0.000025	102.8387	ug/L
Se	82	-3	140	5	3.4	0.000039	122.1804	ug/L
Sr	88	94	979593	15349	1.6	0.267877	6533.3836	ug/L
Y	89	67						ug/L
Mo	98	144	387	18	4.6	0.000060	6.8878	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3656746	70599	1.9	3656746.236162		ug/L
Sn	120	17270	20356	721	3.5	0.000102	-14.7879	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1253	21	1.7	0.000315	7.5854	ug/L
Ce	140	36	34	4	11.8	-0.000002	0.0111	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.045
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.278
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	115.696
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-27

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:14:38

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 350

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-27.285

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23627406	640596	2.7	16.446844	1082911.2312	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	726560	20184	2.8	0.450839	351729.7732	ug/L
Sc	45	1256607	1436941	53195	3.7	1436940.750494		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4332	40	0.9	-0.001745	-31.7187	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	44962	968	2.2	0.031018	560.7104	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	117	9	7.3	0.000072	2.4564	ug/L
Cu	63	85	2332	12	0.5	0.002832	73.3520	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	789953	15469	2.0	789953.471505		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	217	10	4.4	0.000026	107.0656	ug/L
Se	82	-3	142	9	6.4	0.000039	122.9208	ug/L
Sr	88	94	1034268	20383	2.0	0.280515	6841.6427	ug/L
Y	89	67						ug/L
Mo	98	144	386	5	1.3	0.000059	6.7828	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3687317	95644	2.6	3687316.764787		ug/L
Sn	120	17270	21025	562	2.7	0.000238	-7.1099	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	71844	2175	3.0	0.019456	484.2813	ug/L
Ce	140	36	35	5	13.1	-0.000002	0.0131	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.351
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.385
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.663
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-28

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:16:34

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 351

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-28.286

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23793263	415622	1.7	16.486480	1085521.0699	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	732771	8163	1.1	0.452875	353313.6252	ug/L
Sc	45	1256607	1443372	35453	2.5	1443371.626218		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4325	27	0.6	-0.001765	-32.1364	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	45123	379	0.8	0.030989	560.1892	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	136	9	6.3	0.000096	3.6747	ug/L
Cu	63	85	2342	16	0.7	0.002827	73.2197	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	794914	17213	2.2	794914.027932		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	214	6	2.7	0.000026	107.8674	ug/L
Se	82	-3	130	22	17.3	0.000037	114.3326	ug/L
Sr	88	94	1056490	18818	1.8	0.290866	7094.1381	ug/L
Y	89	67						ug/L
Mo	98	144	392	13	3.2	0.000062	7.1015	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3633812	136126	3.7	3633812.187856		ug/L
Sn	120	17270	20119	426	2.1	0.000075	-16.2852	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	73772	1596	2.2	0.020283	504.8747	ug/L
Ce	140	36	41	6	14.8	-0.000000	0.0484	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.863
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.084
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.970
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-29

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:18:31

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 352

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-29.287

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23536012	341974	1.5	16.024229	1055083.8048	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	703995	9642	1.4	0.424361	331128.8024	ug/L
Sc	45	1256607	1469780	38481	2.6	1469779.691771		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4393	36	0.8	-0.001772	-32.2880	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1908	69	3.6	0.001012	17.9226	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	124	10	8.2	0.000078	2.7403	ug/L
Cu	63	85	2286	34	1.5	0.002697	69.8624	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	811285	14397	1.8	811285.312051		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	221	4	2.0	0.000026	106.4266	ug/L
Se	82	-3	148	39	26.5	0.000040	124.7176	ug/L
Sr	88	94	970591	25406	2.6	0.257811	6287.8624	ug/L
Y	89	67						ug/L
Mo	98	144	368	41	11.1	0.000052	6.0762	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3766495	73130	1.9	3766495.008098		ug/L
Sn	120	17270	26774	9986	37.3	0.001613	70.3011	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1238	37	3.0	0.000302	7.2417	ug/L
Ce	140	36	39	6	16.0	-0.000001	0.0303	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.964
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.393
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	119.168
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-30
Sample Description: 200x
Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:20:27
 Diluted To Volume (mL): 5.00
 Aliquot Volume (mL): 0.025
 Autosampler Position: 353

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam
 Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth
 Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-30.288
 Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
 Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23793609	655314	2.8	16.095039	1059746.3520	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	711643	9877	1.4	0.426567	332844.7816	ug/L
Sc	45	1256607	1478190	31241	2.1	1478189.821635		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4583	54	1.2	-0.001661	-29.9456	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1900	49	2.6	0.000998	17.6758	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	157	14	8.9	0.000121	5.0125	ug/L
Cu	63	85	2406	110	4.6	0.002905	75.2381	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	795237	15401	1.9	795236.718041		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	221	29	12.9	0.000027	111.3170	ug/L
Se	82	-3	148	10	6.9	0.000041	126.8897	ug/L
Sr	88	94	972831	10396	1.1	0.262707	6407.2710	ug/L
Y	89	67						ug/L
Mo	98	144	364	9	2.6	0.000053	6.1227	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3703738	98872	2.7	3703738.068331		ug/L
Sn	120	17270	20618	880	4.3	0.000101	-14.7927	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1220	29	2.4	0.000302	7.2555	ug/L
Ce	140	36	39	7	16.9	-0.000001	0.0365	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	117.633
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.130
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.183
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-31

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:22:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 354

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-31.289

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23293100	439493	1.9	15.765724	1038062.3928	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	699324	7378	1.1	0.418364	326462.6323	ug/L
Sc	45	1256607	1477736	26904	1.8	1477735.909920		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4549	40	0.9	-0.001684	-30.4190	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1971	25	1.3	0.001047	18.5506	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	122	6	4.7	0.000074	2.5306	ug/L
Cu	63	85	2320	9	0.4	0.002728	70.6531	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	814538	10705	1.3	814538.046174		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	207	12	5.6	0.000023	95.0648	ug/L
Se	82	-3	144	22	15.0	0.000040	123.7715	ug/L
Sr	88	94	945344	1260	0.1	0.256083	6245.7143	ug/L
Y	89	67						ug/L
Mo	98	144	379	29	7.8	0.000057	6.5378	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3693214	105178	2.8	3693214.325850		ug/L
Sn	120	17270	20904	729	3.5	0.000196	-9.4508	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1220	45	3.7	0.000303	7.2848	ug/L
Ce	140	36	35	8	23.4	-0.000002	0.0140	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	117.597
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.851
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.850
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-32

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:24:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 413

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-32.290

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	23110139	417129	1.8	15.390403	1013349.1171	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	701391	16812	2.4	0.412189	321658.5190	ug/L
Sc	45	1256607	1501711	8323	0.6	1501711.380833		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4584	42	0.9	-0.001710	-30.9797	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	1747	80	4.6	0.000876	15.4675	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	130	15	11.2	0.000083	3.0387	ug/L
Cu	63	85	2264	52	2.3	0.002643	68.4636	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	819386	4816	0.6	819386.439992		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	214	17	8.1	0.000024	97.8333	ug/L
Se	82	-3	140	16	11.1	0.000038	118.2079	ug/L
Sr	88	94	958545	21511	2.2	0.253911	6192.7125	ug/L
Y	89	67						ug/L
Mo	98	144	355	28	7.8	0.000049	5.6969	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3775280	39708	1.1	3775279.831322		ug/L
Sn	120	17270	21913	797	3.6	0.000341	-1.2891	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1170	24	2.1	0.000283	6.7696	ug/L
Ce	140	36	29	2	7.1	-0.000004	-0.0210	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.505
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.535
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	119.446
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVJ

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:26:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCV1.291

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	45887353	1751399	3.8	30.721320	10114.1213	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	3761743	129144	3.4	2.463534	9588.4936	ug/L
Sc	45	1256607	1493804	5757	0.4	1493803.733627		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	284733	5848	2.1	0.185858	19.5868	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2127683	34818	1.6	1.424119	128.8046	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	154692	3380	2.2	0.189495	49.6056	ug/L
Cu	63	85	313252	4499	1.4	0.383773	49.6977	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	816004	12678	1.6	816004.195618		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	7046	124	1.8	0.001824	39.1141	ug/L
Se	82	-3	9614	248	2.6	0.002535	38.4880	ug/L
Sr	88	94	1527979	33440	2.2	0.402682	49.1079	ug/L
Y	89	67						ug/L
Mo	98	144	178250	3491	2.0	0.046934	23.9426	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3794433	15866	0.4	3794432.550490		ug/L
Sn	120	17270	152847	3413	2.2	0.034821	9.7005	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3672442	89507	2.4	0.967848	120.5219	ug/L
Ce	140	36	171829	6173	3.6	0.045277	4.5168	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	118.876
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.058
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	120.052
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBJ

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:28:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBI.292

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	5276	2817	53.4	0.003355	0.8901	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	33314	462	1.4	-0.032994	-123.5734	ug/L
Sc	45	1256607	1519515	15170	1.0	1519515.440794		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2264	52	2.3	-0.003272	-0.3193	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	680	139	20.5	0.000160	0.0126	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	66	11	16.3	0.000002	-0.0061	ug/L
Cu	63	85	229	41	17.8	0.000151	0.0196	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	843706	2192	0.3	843706.220640		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	115	7	6.4	-0.000004	-0.0975	ug/L
Se	82	-3	23	24	105.3	0.000007	0.1179	ug/L
Sr	88	94	262	89	34.1	0.000037	0.0009	ug/L
Y	89	67						ug/L
Mo	98	144	538	66	12.2	0.000091	0.0502	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3932800	28087	0.7	3932799.668113		ug/L
Sn	120	17270	25543	189	0.7	0.001031	0.1877	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	323	172	53.3	0.000055	0.0055	ug/L
Ce	140	36	67	24	36.5	0.000006	0.0008	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	120.922
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	118.964
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	124.430
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-33

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:30:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 414

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1232005-33.293

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1744	67	3.8	0.001014	23.8832	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	33323	194	0.6	-0.033177	-24856.5594	ug/L
Sc	45	1256607	1532512	13039	0.9	1532512.014684		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2260	24	1.0	-0.003288	-64.1883	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	500	26	5.3	0.000039	0.3208	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	52	5	8.6	-0.000014	-2.0564	ug/L
Cu	63	85	168	12	6.9	0.000078	2.0290	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	846823	12965	1.5	846823.279977		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	97	6	5.9	-0.000008	-37.8574	ug/L
Se	82	-3	-5	9	190.0	-0.000000	2.2319	ug/L
Sr	88	94	157	6	3.5	0.000011	-0.4525	ug/L
Y	89	67						ug/L
Mo	98	144	167	52	31.4	-0.000003	0.4905	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3858030	22176	0.6	3858030.241313		ug/L
Sn	120	17270	21900	452	2.1	0.000213	-8.5334	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	120	13	10.9	0.000004	-0.1747	ug/L
Ce	140	36	42	4	9.5	-0.000000	0.0412	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	121.956
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	119.403
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.064
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234002-01

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:32:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 415

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234002-01.294

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	1821657	34140	1.9	1.208455	79528.6502	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	106010	654	0.6	0.015420	12953.3867	ug/L
Sc	45	1256607	1507186	15209	1.0	1507185.526618		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2492	11	0.4	-0.003109	-60.4191	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	4755	107	2.3	0.002867	51.4863	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	62	7	11.3	-0.000002	-1.4448	ug/L
Cu	63	85	322	25	7.7	0.000261	6.7683	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	843335	7004	0.8	843334.945748		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	107	7	6.7	-0.000005	-26.8500	ug/L
Se	82	-3	23	11	49.2	0.000007	23.7561	ug/L
Sr	88	94	77401	969	1.3	0.019936	485.5602	ug/L
Y	89	67						ug/L
Mo	98	144	140	24	17.0	-0.000010	-0.2417	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3877068	69473	1.8	3877068.126190		ug/L
Sn	120	17270	21551	844	3.9	0.000094	-15.2028	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	622	14	2.3	0.000133	3.0462	ug/L
Ce	140	36	42	5	11.3	-0.000001	0.0387	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.941
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	118.912
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.667
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234002-02

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:34:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 416

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234002-02.295

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	19170856	106216	0.6	12.984812	854951.2766	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	592217	16319	2.8	0.346083	270224.3858	ug/L
Sc	45	1256607	1476708	30927	2.1	1476707.581445		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3793	50	1.3	-0.002194	-41.1511	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2847	154	5.4	0.001640	29.2859	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	104	9	9.0	0.000054	1.4819	ug/L
Cu	63	85	1831	89	4.9	0.002164	56.0491	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	801469	8376	1.0	801469.284000		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	188	13	6.9	0.000017	70.2372	ug/L
Se	82	-3	125	20	16.3	0.000034	107.5602	ug/L
Sr	88	94	798808	17706	2.2	0.213386	5204.2324	ug/L
Y	89	67						ug/L
Mo	98	144	350	32	9.3	0.000048	5.6382	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3743516	41926	1.1	3743515.846321		ug/L
Sn	120	17270	20810	58	0.3	0.000095	-15.1394	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1205	11	1.0	0.000295	7.0709	ug/L
Ce	140	36	34	14	40.8	-0.000002	0.0071	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	117.515
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.008
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.441
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-DUP4

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:36:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 417

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-DUP4.296

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	20344987	390240	1.9	12.758837	840071.7583	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	625499	6293	1.0	0.337330	263414.4624	ug/L
Sc	45	1256607	1595155	28803	1.8	1595154.800531		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	3982	105	2.6	-0.002266	-42.6743	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3012	128	4.2	0.001602	28.5906	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	110	10	9.3	0.000053	1.4352	ug/L
Cu	63	85	2033	21	1.0	0.002248	58.2244	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	858629	11751	1.4	858628.728352		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	191	14	7.4	0.000015	59.5483	ug/L
Se	82	-3	137	27	19.9	0.000035	110.6639	ug/L
Sr	88	94	842803	12455	1.5	0.210951	5144.8282	ug/L
Y	89	67						ug/L
Mo	98	144	379	4	1.0	0.000049	5.7782	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3997574	114511	2.9	3997574.410413		ug/L
Sn	120	17270	22440	422	1.9	0.000150	-12.0373	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1233	57	4.6	0.000281	6.7379	ug/L
Ce	140	36	36	3	8.3	-0.000002	0.0039	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	126.941
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	121.068
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	126.479
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MS4

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:37:59

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 418

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MS4.297

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	20411157	845723	4.1	12.715344	837207.9378	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	636888	23157	3.6	0.341827	266913.5589	ug/L
Sc	45	1256607	1606705	37057	2.3	1606705.480388		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4076	97	2.4	-0.002224	-41.8011	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	47902	1701	3.6	0.029553	534.2073	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	118	15	12.9	0.000063	1.9898	ug/L
Cu	63	85	1981	82	4.2	0.002209	57.2165	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	851821	27109	3.2	851821.025007		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	198	14	6.9	0.000017	67.6281	ug/L
Se	82	-3	124	10	7.9	0.000032	100.8702	ug/L
Sr	88	94	915615	32767	3.6	0.230169	5613.6055	ug/L
Y	89	67						ug/L
Mo	98	144	346	25	7.3	0.000041	4.9577	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3980591	83040	2.1	3980591.239090		ug/L
Sn	120	17270	22352	605	2.7	0.000151	-11.9783	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	75253	2303	3.1	0.018891	470.2198	ug/L
Ce	140	36	38	12	31.6	-0.000002	0.0138	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	127.861
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	120.108
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	125.942
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121541-MSD4

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:39:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 419

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\B121541-MSD4.298

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	20621761	663137	3.2	13.721558	903462.8510	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	641977	8226	1.3	0.372122	290484.0837	ug/L
Sc	45	1256607	1505351	60392	4.0	1505350.624594		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4105	91	2.2	-0.002031	-37.7334	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	48009	1316	2.7	0.031661	572.3377	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	116	7	6.2	0.000065	2.0797	ug/L
Cu	63	85	2072	6	0.3	0.002393	61.9852	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	824698	17771	2.2	824697.953865		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	200	7	3.5	0.000019	80.2341	ug/L
Se	82	-3	137	8	6.2	0.000037	115.6366	ug/L
Sr	88	94	922247	32920	3.6	0.242793	5921.5319	ug/L
Y	89	67						ug/L
Mo	98	144	327	11	3.4	0.000041	4.8825	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3805994	158428	4.2	3805993.902810		ug/L
Sn	120	17270	20653	704	3.4	-0.000036	-22.5545	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	76420	2302	3.0	0.020089	500.0514	ug/L
Ce	140	36	35	2	5.9	-0.000002	0.0091	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.795
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	116.284
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	120.418
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234002-04

Sample Description: 200x

Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:41:51

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.025

Autosampler Position: 425

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234002-04.299

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	20130582	662623	3.3	13.029679	857905.5967	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	608757	17134	2.8	0.339078	264774.7800	ug/L
Sc	45	1256607	1547329	53557	3.5	1547328.738365		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	4144	146	3.5	-0.002083	-38.8219	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	3034	53	1.8	0.001676	29.9314	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	118	17	14.7	0.000065	2.0518	ug/L
Cu	63	85	2015	19	0.9	0.002273	58.8755	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	842235	16288	1.9	842235.386096		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	218	29	13.2	0.000023	97.2046	ug/L
Se	82	-3	130	4	3.3	0.000035	108.4384	ug/L
Sr	88	94	833106	21794	2.6	0.215705	5260.7954	ug/L
Y	89	67						ug/L
Mo	98	144	313	25	8.0	0.000035	4.3471	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3864695	108343	2.8	3864694.731387		ug/L
Sn	120	17270	21435	851	4.0	0.000081	-15.9376	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	1191	38	3.2	0.000281	6.7336	ug/L
Ce	140	36	38	4	11.1	-0.000002	0.0188	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	123.135
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	118.757
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.275
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVK

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:43:49

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCVJ.300

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	46372140	1365953	2.9	30.273832	9966.7953	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	3890650	81775	2.1	2.485376	9673.4626	ug/L
Sc	45	1256607	1531565	24043	1.6	1531564.744451		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	291484	7974	2.7	0.185533	19.5526	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	2176533	38487	1.8	1.420821	128.5063	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	157423	2833	1.8	0.188328	49.3000	ug/L
Cu	63	85	324331	6124	1.9	0.388039	50.2501	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	835562	10195	1.2	835562.163358		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	7265	241	3.3	0.001810	38.8127	ug/L
Se	82	-3	10078	207	2.1	0.002558	38.8346	ug/L
Sr	88	94	1572640	31481	2.0	0.398945	48.6520	ug/L
Y	89	67						ug/L
Mo	98	144	184658	4153	2.2	0.046800	23.8743	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	3941519	50000	1.3	3941518.871742		ug/L
Sn	120	17270	157531	4470	2.8	0.034498	9.6096	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	3813093	96461	2.5	0.967288	120.4521	ug/L
Ce	140	36	177355	2810	1.6	0.044984	4.4876	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	121.881
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	117.816
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	124.706
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBK

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:45:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CCBJ.301

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	6107	3140	51.4	0.003807	1.0388	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	33105	269	0.8	-0.033676	-126.2257	ug/L
Sc	45	1256607	1558412	17420	1.1	1558412.012936		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2214	45	2.0	-0.003342	-0.3266	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	739	144	19.5	0.000187	0.0150	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	65	15	23.4	-0.000000	-0.0068	ug/L
Cu	63	85	200	23	11.5	0.000112	0.0145	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	862812	16068	1.9	862811.916311		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	96	6	6.5	-0.000009	-0.2132	ug/L
Se	82	-3	34	8	22.7	0.000009	0.1581	ug/L
Sr	88	94	295	114	38.5	0.000044	0.0018	ug/L
Y	89	67						ug/L
Mo	98	144	535	61	11.4	0.000088	0.0485	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4010054	89825	2.2	4010054.437057		ug/L
Sn	120	17270	25852	291	1.1	0.000984	0.1745	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	366	191	52.3	0.000065	0.0067	ug/L
Ce	140	36	80	23	29.0	0.000009	0.0011	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	124.017
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	121.658
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	126.874
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:47:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.302

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	922	94	10.2	0.000437	-0.0707	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34470	307	0.9	-0.033974	-127.3842	ug/L
Sc	45	1256607	1645562	4769	0.3	1645562.313362		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2159	15	0.7	-0.003450	-0.3380	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	757	26	3.5	0.000173	0.0137	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	57	7	12.5	-0.000012	-0.0099	ug/L
Cu	63	85	156	11	7.1	0.000054	0.0070	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	894103	14839	1.7	894102.779823		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	100	6	6.1	-0.000009	-0.2145	ug/L
Se	82	-3	-8	13	173.2	-0.000001	0.0015	ug/L
Sr	88	94	176	3	1.5	0.000012	-0.0021	ug/L
Y	89	67						ug/L
Mo	98	144	192	25	13.1	0.000000	0.0040	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4174292	14817	0.4	4174292.079843	ug/L
Sn	120	17270	23673	564	2.4	0.000207	-0.0443 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	164	8	4.6	0.000012	0.0002 ug/L
Ce	140	36	66	12	17.9	0.000005	0.0007 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	130.953
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	126.070
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	132.071
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:49:43

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.303

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	664	68	10.3	0.000268	-0.1263	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	34890	216	0.6	-0.034315	-128.7137	ug/L
Sc	45	1256607	1693685	33279	2.0	1693684.739950		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2213	20	0.9	-0.003456	-0.3386	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	764	20	2.6	0.000164	0.0129	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	50	6	11.1	-0.000020	-0.0120	ug/L
Cu	63	85	153	14	9.2	0.000048	0.0063	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	905430	8745	1.0	905430.442457		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	100	4	3.8	-0.000009	-0.2118	ug/L
Se	82	-3	0	8	11388.3	0.000001	0.0293	ug/L
Sr	88	94	164	12	7.3	0.000009	-0.0025	ug/L
Y	89	67						ug/L
Mo	98	144	128	16	12.5	-0.000015	-0.0039	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4183343	90272	2.2	4183343.482670		ug/L
Sn	120	17270	24529	696	2.8	0.000399	0.0099	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	149	2	1.4	0.000009	-0.0003	ug/L
Ce	140	36	52	4	7.7	0.000001	0.0004	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	134.782
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	127.667
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	132.357
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:51:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.304

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	553	10	1.9	0.000205	-0.1470	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35404	293	0.8	-0.033874	-126.9946	ug/L
Sc	45	1256607	1682131	12799	0.8	1682131.088701		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2185	42	1.9	-0.003464	-0.3394	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	713	8	1.1	0.000137	0.0105	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	47	4	8.9	-0.000023	-0.0127	ug/L
Cu	63	85	133	6	4.8	0.000029	0.0037	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	889851	13116	1.5	889851.458189		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	104	1	0.6	-0.000008	-0.1987	ug/L
Se	82	-3	-0	12	4808.2	0.000001	0.0284	ug/L
Sr	88	94	153	12	7.5	0.000006	-0.0028	ug/L
Y	89	67						ug/L
Mo	98	144	89	26	29.3	-0.000024	-0.0087	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4211634	37345	0.9	4211633.730383		ug/L
Sn	120	17270	24044	190	0.8	0.000245	-0.0335	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	161	15	9.0	0.000011	0.0000	ug/L
Ce	140	36	43	1	2.7	-0.000001	0.0001	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	133.863
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	125.470
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	133.252
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse
Sample Description:
Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:53:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.305

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	579	38	6.6	0.000223	-0.1412	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35512	129	0.4	-0.033647	-126.1124	ug/L
Sc	45	1256607	1669369	12464	0.7	1669368.875275		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2213	37	1.7	-0.003437	-0.3366	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	708	37	5.2	0.000137	0.0105	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	42	4	8.9	-0.000029	-0.0142	ug/L
Cu	63	85	138	7	4.8	0.000033	0.0042	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	900959	10016	1.1	900959.166195		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	101	10	10.0	-0.000009	-0.2136	ug/L
Se	82	-3	-4	6	135.1	-0.000000	0.0140	ug/L
Sr	88	94	154	15	9.4	0.000007	-0.0028	ug/L
Y	89	67						ug/L
Mo	98	144	71	16	22.9	-0.000029	-0.0109	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4209653	23258	0.6	4209652.838872	ug/L
Sn	120	17270	24100	129	0.5	0.000261	-0.0291 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	147	16	11.2	0.000008	-0.0004 ug/L
Ce	140	36	44	12	26.1	-0.000001	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	132.847
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	127.037
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	133.189
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:55:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.306

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	560	30	5.4	0.000221	-0.1418	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35860	156	0.4	-0.032876	-123.1125	ug/L
Sc	45	1256607	1627216	39096	2.4	1627215.703426		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2228	36	1.6	-0.003393	-0.3320	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	716	22	3.1	0.000153	0.0119	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	51	9	16.8	-0.000018	-0.0112	ug/L
Cu	63	85	134	7	4.9	0.000033	0.0044	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	871274	1360	0.2	871274.202571		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	97	9	8.7	-0.000009	-0.2149	ug/L
Se	82	-3	3	11	402.8	0.000001	0.0392	ug/L
Sr	88	94	148	14	9.2	0.000006	-0.0028	ug/L
Y	89	67						ug/L
Mo	98	144	74	7	9.9	-0.000028	-0.0103	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4077573	54410	1.3	4077572.898656	ug/L
Sn	120	17270	23515	652	2.8	0.000303	-0.0173 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	143	10	7.2	0.000008	-0.0004 ug/L
Ce	140	36	51	4	8.1	0.000001	0.0004 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	129.493
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	122.851
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	129.010
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	TI	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:57:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.307

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	500	16	3.2	0.000190	-0.1521	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35723	348	1.0	-0.032531	-121.7709	ug/L
Sc	45	1256607	1596295	38401	2.4	1596295.319252		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2223	17	0.8	-0.003369	-0.3295	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	700	22	3.1	0.000151	0.0118	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	53	5	9.6	-0.000014	-0.0102	ug/L
Cu	63	85	116	6	5.5	0.000015	0.0020	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	858579	19042	2.2	858578.936084		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	90	11	12.3	-0.000011	-0.2448	ug/L
Se	82	-3	5	12	244.7	0.000002	0.0480	ug/L
Sr	88	94	138	20	14.5	0.000005	-0.0030	ug/L
Y	89	67						ug/L
Mo	98	144	62	12	19.7	-0.000030	-0.0116	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4000679	120831	3.0	4000679.037481	ug/L
Sn	120	17270	22849	540	2.4	0.000249	-0.0326 ug/L
Sb	121	224					ug/L
Cs	133	20					ug/L
Ba	138	86	154	18	11.4	0.000011	0.0000 ug/L
Ce	140	36	45	6	14.4	-0.000000	0.0002 ug/L
> Tm	169	2730830					ug/L
Tl	205	25					ug/L
Pb	208	143					ug/L
Bi	209	261					ug/L
Th	232	199					ug/L
U	238	16					ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	127.032
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	121.061
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	126.578
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	TI	205
	Pb	208
	Bi	209
	Th	232
L	U	238

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: rinse

Sample Description:

Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:59:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\09-12\1200711.sam

Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\rinse.308

Calibration File: C:\Elandata\System\2012\09-12\1200711.cal

Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	41						ug/L
Be	9	33						ug/L
B	11	169						ug/L
Na	23	6859						ug/L
Mg	24	156	468	20	4.3	0.000162	-0.1612	ug/L
Al	27	891						ug/L
K	39	409328						ug/L
Ca	44	69014	35746	123	0.3	-0.033078	-123.8977	ug/L
Sc	45	1256607	1636797	27833	1.7	1636796.831089		ug/L
Ti	47	283						ug/L
Ti	48	-5947						ug/L
V	51	5985	2210	71	3.2	-0.003412	-0.3340	ug/L
Cr	52	6084						ug/L
Cr	53	1948						ug/L
Mn	55	361	685	25	3.7	0.000131	0.0100	ug/L
Fe	54	51442						ug/L
Fe	57	3551						ug/L
Co	59	37						ug/L
Ni	60	52						ug/L
Ni	62	215						ug/L
Cu	65	54	42	6	13.4	-0.000027	-0.0138	ug/L
Cu	63	85	114	9	7.8	0.000010	0.0013	ug/L
Zn	66	245						ug/L
Zn	68	228						ug/L
Ge	74	709212	879529	15074	1.7	879529.110459		ug/L
As	75	154						ug/L
As-1	75	7631						ug/L
Se	77	105	91	12	13.3	-0.000011	-0.2485	ug/L
Se	82	-3	-1	17	2690.4	0.000001	0.0271	ug/L
Sr	88	94	153	8	4.9	0.000008	-0.0027	ug/L
Y	89	67						ug/L
Mo	98	144	57	16	28.0	-0.000032	-0.0124	ug/L
Ag	107	37						ug/L
Ag	109	38						ug/L
Cd	111	24						ug/L
Cd	114	20						ug/L

> In	115	3160654	4067226	5106	0.1	4067225.508835		ug/L
Sn	120	17270	24201	679	2.8	0.000486	0.0344	ug/L
Sb	121	224						ug/L
Cs	133	20						ug/L
Ba	138	86	145	15	10.5	0.000009	-0.0003	ug/L
Ce	140	36	48	9	19.1	0.000001	0.0003	ug/L
> Tm	169	2730830						ug/L
Tl	205	25						ug/L
Pb	208	143						ug/L
Bi	209	261						ug/L
Th	232	199						ug/L
U	238	16						ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	130.255
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.015
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Y	89	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	128.683
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	

[>	Tm	169
	Tl	205
	Pb	208
	Bi	209
	Th	232
L	U	238

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200726-ICB1	1200726	QC	1		-			
1200726-CAL1	1200726	QC	2	1212078	-			
1200726-CAL2	1200726	QC	3	1212079	-			
1200726-CAL3	1200726	QC	4	1212080	-			
1200726-CAL4	1200726	QC	5	1212081	-			
1200726-CAL5	1200726	QC	6	1212082	-			
1200726-CAL6	1200726	QC	7	1212083	-			
1200726-CAL7	1200726	QC	8	1212084	-			
1200726-CAL8	1200726	QC	9	1212085	-			
1200726-ICB2	1200726	QC	10		-			
1200726-ICV1	1200726	QC	11	1217029	-			
1200726-ICB3	1200726	QC	12		-			
1200726-IBL1	1200726	QC	13		-			
1200726-IBL2	1200726	QC	14		-			
1200726-IBL3	1200726	QC	15		-			
1200726-IBL4	1200726	QC	16		-			
1200726-SCV1	1200726	QC	17	1215030	-			
1200726-CCV1	1200726	QC	18	1212081	-			
1200726-CCB1	1200726	QC	19		-			
B121711-BLK1	B121711	QC	20		-			
B121711-BLK2	B121711	QC	21		-			
B121711-BLK3	B121711	QC	22		-			
B121711-BLK4	B121711	QC	23		-			
B121711-BS1	B121711	QC	24		-			
B121711-SRM1	B121711	QC	25		-			
B121691-BLK1	B121691	QC	26		-			

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121691-BLK2	B121691	QC	27		-			
B121691-BLK3	B121691	QC	28		-			
B121691-BLK4	B121691	QC	29		-			
B121691-BS1	B121691	QC	30		-			
B121691-SRM1	B121691	QC	31		-			
B121690-BLK1	B121690	QC	32		-			
B121690-BLK2	B121690	QC	33		-			
B121690-BLK3	B121690	QC	34		-			
B121690-BLK4	B121690	QC	35		-			
B121690-BS1	B121690	QC	36		-			
B121690-SRM1	B121690	QC	37		-			
1237023-01	B121711	As-FW-Oven-DRC-TR	38			NJC-MQ1201	9/19/2012	
B121711-DUP1	B121711	QC	39		1237023-01			
B121711-MS1	B121711	QC	40		1237023-01			
B121711-MSD1	B121711	QC	41		1237023-01			
1200726-CCV2	1200726	QC	42	1212081	-			
1200726-CCB2	1200726	QC	43		-			
1200726-CCV3	1200726	QC	44	1212081	-			
1200726-CCB3	1200726	QC	45		-			
1237023-02	B121711	As-FW-Oven-DRC-TR	46			NJC-MQ1201	9/19/2012	
1237023-05	B121711	As-FW-Oven-DRC-TR	47			NJC-MQ1201	9/19/2012	
1237023-06	B121711	As-FW-Oven-DRC-TR	48			NJC-MQ1201	9/19/2012	
1200726-CCV4	1200726	QC	49	1212081	-			
1200726-CCB4	1200726	QC	50		-			
1236003-19	B121690	As-FW-Oven-DRC-TR	51			AGS-WC1001	9/28/2012	
1236003-19	B121690	Se-FW-Oven-DRC-TR	52			AGS-WC1001	9/28/2012	

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1236012-13	B121690	As-FW-Oven-DRC-TR	53			AGS-WC1001	10/1/2012	
1236012-13	B121690	Se-FW-Oven-DRC-TR	54			AGS-WC1001	10/1/2012	
1235020-09	B121690	Se-FW-Oven-DRC-TR	55			PAC-MI1203	9/21/2012	
1235020-10	B121690	Se-FW-Oven-DRC-Diss	56			PAC-MI1203	9/21/2012	
1236003-01	B121690	As-FW-Oven-DRC-TR	57			AGS-WC1001	9/28/2012	
1236003-01	B121690	Se-FW-Oven-DRC-TR	58			AGS-WC1001	9/28/2012	
1236003-02	B121690	Se-FW-Oven-DRC-TR	59			AGS-WC1001	9/28/2012	
1236003-02	B121690	Se-FW-Oven-DRC-Diss	60			AGS-WC1001	1/1/1980	BatchQC
1236003-02	B121690	As-FW-Oven-DRC-Diss	61			AGS-WC1001	1/1/1980	BatchQC
1236003-02	B121690	As-FW-Oven-DRC-TR	62			AGS-WC1001	9/28/2012	
B121690-DUP1	B121690	QC	63		1236003-02			
B121690-MS1	B121690	QC	64		1236003-02			
B121690-MSD1	B121690	QC	65		1236003-02			
1236003-03	B121690	As-FW-Oven-DRC-TR	66			AGS-WC1001	9/28/2012	
1236003-03	B121690	Se-FW-Oven-DRC-TR	67			AGS-WC1001	9/28/2012	
1200726-CCV5	1200726	QC	68	1212081	-			
1200726-CCB5	1200726	QC	69		-			
1236003-01RE1	B121690	Se-FW-Oven-DRC-TR	70			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-01RE1	B121690	As-FW-Oven-DRC-TR	71			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-02RE1	B121690	Se-FW-Oven-DRC-TR	72			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-02RE1	B121690	As-FW-Oven-DRC-TR	73			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
B121690-DUP2	B121690	QC	74		1236003-02RE1			
B121690-MS2	B121690	QC	75		1236003-02RE1			
B121690-MSD2	B121690	QC	76		1236003-02RE1			
1236003-03RE1	B121690	As-FW-Oven-DRC-TR	77			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-03RE1	B121690	Se-FW-Oven-DRC-TR	78			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1236003-04	B121690	As-FW-Oven-DRC-Diss	79			AGS-WC1001	9/28/2012	
1236003-04	B121690	Se-FW-Oven-DRC-Diss	80			AGS-WC1001	9/28/2012	
1236003-05	B121690	Se-FW-Oven-DRC-TR	81			AGS-WC1001	9/28/2012	
1236003-05	B121690	As-FW-Oven-DRC-TR	82			AGS-WC1001	9/28/2012	
1236003-06	B121690	Se-FW-Oven-DRC-Diss	83			AGS-WC1001	9/28/2012	
1236003-06	B121690	As-FW-Oven-DRC-Diss	84			AGS-WC1001	9/28/2012	
1236003-07	B121690	Se-FW-Oven-DRC-TR	85			AGS-WC1001	9/28/2012	
1236003-07	B121690	As-FW-Oven-DRC-TR	86			AGS-WC1001	9/28/2012	
1200726-CCV6	1200726	QC	87	1212081	-			
1200726-CCB6	1200726	QC	88		-			
1236003-05RE1	B121690	Se-FW-Oven-DRC-TR	89			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-05RE1	B121690	As-FW-Oven-DRC-TR	90			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-06RE1	B121690	Se-FW-Oven-DRC-Diss	91			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-06RE1	B121690	As-FW-Oven-DRC-Diss	92			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-08	B121690	Se-FW-Oven-DRC-Diss	93			AGS-WC1001	9/28/2012	
1236003-08	B121690	As-FW-Oven-DRC-Diss	94			AGS-WC1001	9/28/2012	
1236003-09	B121690	Se-FW-Oven-DRC-TR	95			AGS-WC1001	9/28/2012	
1236003-09	B121690	As-FW-Oven-DRC-TR	96			AGS-WC1001	9/28/2012	
1236003-10	B121690	Se-FW-Oven-DRC-Diss	97			AGS-WC1001	9/28/2012	
1236003-10	B121690	As-FW-Oven-DRC-Diss	98			AGS-WC1001	9/28/2012	
1236003-10RE1	B121690	Se-FW-Oven-DRC-Diss	99			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-10RE1	B121690	As-FW-Oven-DRC-Diss	100			AGS-WC1001	9/28/2012	Added 9/20/2012 by ATC
1236003-11	B121690	Se-FW-Oven-DRC-TR	101			AGS-WC1001	9/28/2012	
1236003-11	B121690	As-FW-Oven-DRC-TR	102			AGS-WC1001	9/28/2012	
1200726-CCV7	1200726	QC	103	1212082	-			
1200726-CCB7	1200726	QC	104		-			

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1236003-12	B121690	As-FW-Oven-DRC-Diss	105			AGS-WC1001	9/28/2012	
1236003-12	B121690	As-FW-Oven-DRC-TR	106			AGS-WC1001	1/1/1980	BatchQC
1236003-12	B121690	Se-FW-Oven-DRC-Diss	107			AGS-WC1001	9/28/2012	
1236003-12	B121690	Se-FW-Oven-DRC-TR	108			AGS-WC1001	1/1/1980	BatchQC
B121690-DUP3	B121690	QC	109		1236003-12			
B121690-MS3	B121690	QC	110		1236003-12			
B121690-MSD3	B121690	QC	111		1236003-12			
1236003-13	B121690	As-FW-Oven-DRC-TR	112			AGS-WC1001	9/28/2012	
1236003-13	B121690	Se-FW-Oven-DRC-TR	113			AGS-WC1001	9/28/2012	
1236003-14	B121690	Se-FW-Oven-DRC-Diss	114			AGS-WC1001	9/28/2012	
1236003-14	B121690	As-FW-Oven-DRC-Diss	115			AGS-WC1001	9/28/2012	
1236003-15	B121690	As-FW-Oven-DRC-TR	116			AGS-WC1001	9/28/2012	
1236003-15	B121690	Se-FW-Oven-DRC-TR	117			AGS-WC1001	9/28/2012	
1236003-16	B121690	As-FW-Oven-DRC-Diss	118			AGS-WC1001	9/28/2012	
1236003-16	B121690	Se-FW-Oven-DRC-Diss	119			AGS-WC1001	9/28/2012	
1236003-17	B121690	Se-FW-Oven-DRC-TR	120			AGS-WC1001	9/28/2012	
1236003-17	B121690	As-FW-Oven-DRC-TR	121			AGS-WC1001	9/28/2012	
1236003-18	B121690	Se-FW-Oven-DRC-Diss	122			AGS-WC1001	9/28/2012	
1236003-18	B121690	As-FW-Oven-DRC-Diss	123			AGS-WC1001	9/28/2012	
1200726-CCV8	1200726	QC	124	1212081	-			
1200726-CCB8	1200726	QC	125		-			
1236012-01	B121690	Se-FW-Oven-DRC-TR	126			AGS-WC1001	10/1/2012	
1236012-01	B121690	As-FW-Oven-DRC-TR	127			AGS-WC1001	10/1/2012	
1236012-02	B121690	Se-FW-Oven-DRC-TR	128			AGS-WC1001	1/1/1980	BatchQC
1236012-02	B121690	Se-FW-Oven-DRC-Diss	129			AGS-WC1001	10/1/2012	
1236012-02	B121690	As-FW-Oven-DRC-Diss	130			AGS-WC1001	10/1/2012	

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1236012-02	B121690	As-FW-Oven-DRC-TR	131			AGS-WC1001	1/1/1980	BatchQC
B121690-DUP4	B121690	QC	132		1236012-02			
B121690-MS4	B121690	QC	133		1236012-02			
B121690-MSD4	B121690	QC	134		1236012-02			
1236012-03	B121690	Se-FW-Oven-DRC-TR	135			AGS-WC1001	10/1/2012	
1236012-03	B121690	As-FW-Oven-DRC-TR	136			AGS-WC1001	10/1/2012	
1236012-04	B121690	As-FW-Oven-DRC-TR	137			AGS-WC1001	10/1/2012	
1236012-04	B121690	Se-FW-Oven-DRC-TR	138			AGS-WC1001	10/1/2012	
1236012-05	B121690	As-FW-Oven-DRC-Diss	139			AGS-WC1001	10/1/2012	
1236012-05	B121690	Se-FW-Oven-DRC-Diss	140			AGS-WC1001	10/1/2012	
1200726-CCV9	1200726	QC	141	1212081	-			
1200726-CCB9	1200726	QC	142		-			
1236012-06	B121690	As-FW-Oven-DRC-Diss	143			AGS-WC1001	1/1/1980	BatchQC
1236012-06	B121690	As-FW-Oven-DRC-TR	144			AGS-WC1001	10/1/2012	
1236012-06	B121690	Se-FW-Oven-DRC-Diss	145			AGS-WC1001	1/1/1980	BatchQC
1236012-06	B121690	Se-FW-Oven-DRC-TR	146			AGS-WC1001	10/1/2012	
B121690-DUP5	B121690	QC	147		1236012-06			
B121690-MS5	B121690	QC	148		1236012-06			
B121690-MSD5	B121690	QC	149		1236012-06			
1236012-07	B121690	Se-FW-Oven-DRC-TR	150			AGS-WC1001	10/1/2012	
1236012-07	B121690	As-FW-Oven-DRC-TR	151			AGS-WC1001	10/1/2012	
1236012-08	B121690	Se-FW-Oven-DRC-Diss	152			AGS-WC1001	10/1/2012	
1236012-08	B121690	As-FW-Oven-DRC-Diss	153			AGS-WC1001	10/1/2012	
1236012-09	B121690	Se-FW-Oven-DRC-TR	154			AGS-WC1001	10/1/2012	
1236012-09	B121690	As-FW-Oven-DRC-TR	155			AGS-WC1001	10/1/2012	
1236012-10	B121690	Se-FW-Oven-DRC-Diss	156			AGS-WC1001	10/1/2012	

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1236012-10	B121690	As-FW-Oven-DRC-Diss	157			AGS-WC1001	10/1/2012	
1236012-11	B121690	Se-FW-Oven-DRC-TR	158			AGS-WC1001	10/1/2012	
1236012-11	B121690	As-FW-Oven-DRC-TR	159			AGS-WC1001	10/1/2012	
1236012-12	B121690	Se-FW-Oven-DRC-Diss	160			AGS-WC1001	10/1/2012	
1236012-12	B121690	As-FW-Oven-DRC-Diss	161			AGS-WC1001	10/1/2012	
1200726-CCVA	1200726	QC	162	1212082	-			
1200726-CCBA	1200726	QC	163		-			
1235020-01	B121690	Se-FW-Oven-DRC-TR	164			PAC-MI1203	9/21/2012	
1235020-02	B121690	Se-FW-Oven-DRC-TR	165			PAC-MI1203	1/1/1980	BatchQC
1235020-02	B121690	Se-FW-Oven-DRC-Diss	166			PAC-MI1203	9/21/2012	
1235020-02	B121690	As-FW-Oven-DRC-TR	167			PAC-MI1203	1/1/1980	BatchQC
1235020-02	B121690	As-FW-Oven-DRC-Diss	168			PAC-MI1203	1/1/1980	BatchQC
B121690-DUP6	B121690	QC	169		1235020-02			
B121690-MS6	B121690	QC	170		1235020-02			
B121690-MSD6	B121690	QC	171		1235020-02			
B121690-DUP7	B121690	QC	172		1235020-02			
B121690-MS7	B121690	QC	173		1235020-02			
B121690-MSD7	B121690	QC	174		1235020-02			
1200726-CCVB	1200726	QC	175	1212083	-			
1200726-CCBB	1200726	QC	176		-			
1235020-03	B121690	Se-FW-Oven-DRC-TR	177			PAC-MI1203	9/21/2012	
1235020-04	B121690	Se-FW-Oven-DRC-Diss	178			PAC-MI1203	9/21/2012	
1235020-05	B121690	Se-FW-Oven-DRC-TR	179			PAC-MI1203	9/21/2012	
1235020-06	B121690	Se-FW-Oven-DRC-Diss	180			PAC-MI1203	9/21/2012	
1235020-07	B121690	Se-FW-Oven-DRC-TR	181			PAC-MI1203	9/21/2012	
1235020-08	B121690	Se-FW-Oven-DRC-Diss	182			PAC-MI1203	9/21/2012	

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200726-CCVC	1200726	QC	183	1212082	-			
1200726-CCBC	1200726	QC	184		-			
1237001-01	B121691	Se-FW-Oven-DRC-TR	185			SIE-RV1201	9/24/2012	
B121691-DUP1	B121691	QC	186		1237001-01			
B121691-MS1	B121691	QC	187		1237001-01			
B121691-MSD1	B121691	QC	188		1237001-01			
1237001-02	B121691	Se-FW-Oven-DRC-TR	189			SIE-RV1201	9/24/2012	
1237001-03	B121691	Se-FW-Oven-DRC-TR	190			SIE-RV1201	9/24/2012	
1237001-04	B121691	Se-FW-Oven-DRC-TR	191			SIE-RV1201	9/24/2012	
1237001-05	B121691	Se-FW-Oven-DRC-TR	192			SIE-RV1201	9/24/2012	
1200726-CCVD	1200726	QC	193	1212083	-			
1200726-CCBD	1200726	QC	194		-			
B121713-BLK1	B121713	QC	195		-			
B121713-BLK2	B121713	QC	196		-			
B121713-BLK3	B121713	QC	197		-			
B121713-BLK4	B121713	QC	198		-			
B121713-BS1	B121713	QC	199		-			
B121713-SRM1	B121713	QC	200		-			
B121713-SRM2	B121713	QC	201		-			
1200726-CCVE	1200726	QC	202	1212083	-			
1200726-CCBE	1200726	QC	203		-			
1233048-08RE1	B121713	Se-S-RARBomb-DRC	204			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
B121713-DUP1	B121713	QC	205		1233048-08RE1			
B121713-MS1	B121713	QC	206		1233048-08RE1			
B121713-MSD1	B121713	QC	207		1233048-08RE1			
1233048-09RE1	B121713	Se-S-RARBomb-DRC	208			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1233048-10RE1	B121713	Se-S-RARBomb-DRC	209			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-11RE1	B121713	Se-S-RARBomb-DRC	210			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-12RE1	B121713	Se-S-RARBomb-DRC	211			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-13RE1	B121713	Se-S-RARBomb-DRC	212			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-14RE1	B121713	Se-S-RARBomb-DRC	213			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1200726-CCVF	1200726	QC	214	1212083	-			
1200726-CCBF	1200726	QC	215		-			
1233048-15RE1	B121713	Se-S-RARBomb-DRC	216			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-16RE1	B121713	Se-S-RARBomb-DRC	217			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-17RE1	B121713	Se-S-RARBomb-DRC	218			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-18RE1	B121713	Se-S-RARBomb-DRC	219			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
B121713-DUP2	B121713	QC	220		1233048-18RE1			
B121713-MS2	B121713	QC	221		1233048-18RE1			
B121713-MSD2	B121713	QC	222		1233048-18RE1			
1233048-19RE1	B121713	Se-S-RARBomb-DRC	223			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-20RE1	B121713	Se-S-RARBomb-DRC	224			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-21RE1	B121713	Se-S-RARBomb-DRC	225			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1200726-CCVG	1200726	QC	226	1212083	-			
1200726-CCBG	1200726	QC	227		-			
1233048-22RE1	B121713	Se-S-RARBomb-DRC	228			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-23RE1	B121713	Se-S-RARBomb-DRC	229			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-24RE1	B121713	Se-S-RARBomb-DRC	230			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-25RE1	B121713	Se-S-RARBomb-DRC	231			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233048-26RE1	B121713	Se-S-RARBomb-DRC	232			IID-IM1201	9/11/2012	From B121539 by CMC on 09/13/12
1233038-13RE1	B121713	Se-S-RARBomb-DRC	233			UDE-SL1201	10/2/2012	From B121539 by CMC on 09/13/12
B121713-DUP3	B121713	QC	234		1233038-14RE1			

ANALYSIS SEQUENCE

BRL Report 1233038

Brooks Rand Labs

1200726

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121713-MS3	B121713	QC	235		1233038-14RE1			
B121713-MSD3	B121713	QC	236		1233038-14RE1			
1233038-14RE1	B121713	Se-S-RARBomb-DRC	237			UDE-SL1201	10/2/2012	From B121539 by CMC on 09/13/12
1200726-CCVH	1200726	QC	238	1212083	-			
1200726-CCBH	1200726	QC	239		-			
1236003-02RE1	B121690	As-FW-Oven-DRC-Diss	240			AGS-WC1001	1/1/1980	Added 9/21/2012 by ATC
1236003-02RE1	B121690	Se-FW-Oven-DRC-Diss	241			AGS-WC1001	1/1/1980	Added 9/21/2012 by ATC

ICP-MS Analysis Benchsheet

Batch No: B121711, B121691, B121713B121690**BR-0060 standard / DRC mode (circle one)**

(BRL procedure for the analysis of samples by EPA-Methods 1638, 200.8, 6020A, and 1640)

Analyst: MELDate: 9/19/2012Instrument ID: ICPMS2cHNO3 ID: 1237099cHCl ID: NA

Calibration recorded in LIMS

Int Std: 1214031SEQ: 1200726

A/S #	Batch	Sample ID	Dilution	Comments
1		warm up		
1		warm up		
1		warm up		
1		SEQ-ICB1		
2		SEQ-CAL1		1212078
3		SEQ-CAL2		1212079
4		SEQ-CAL3		1212080
5		SEQ-CAL4		1212081
6		SEQ-CAL5		1212082
7		SEQ-CAL6		1212083
8		SEQ-CAL7		1212084
9		SEQ-CAL8		1212085
1		SEQ-ICB2		
10		SEQ-ICV1		1217029
1		SEQ-ICB3		
101		SEQ-IBL1		
102		SEQ-IBL2		
103		SEQ-IBL3		
104		SEQ-IBL4		
105		SEQ-SCV1	5x	NIST 1643e 1202032-1215030
5		SEQ-CCV1		1212081
1		SEQ-CCB1		
106	B121711	B121711-BLK1		
107	B121711	B121711-BLK2		
108	B121711	B121711-BLK3		
109	B121711	B121711-BLK4		
110	B121711	B121711-BS1		
111	B121711	1237023-01		
112	B121711	B121711-DUP1		1237023-01
113	B121711	B121711-MS1		25ul of 1227034 up to 5ml
114	B121711	B121711-MSD1		25ul of 1227034 up to 5ml
5		SEQ-CCV2		1212081
1		SEQ-CCB2		As hit, reanalyzing to show
5		SEQ-CCV3		1212081
1		SEQ-CCB3		it is carryover, not contamination
115	B121711	1237023-02		
116	B121711	1237023-05		
117	B121711	1237023-06		
5		SEQ-CCV4		1212081

1		SEQ-CCB4		
118	B121690	1236003-19		Shares BLKS with B121711
119	B121690	1236012-13		
120	B121690	1235020-09		
121	B121690	1235020-10		
122	B121690	1236003-01		Do not report, turbidity issues
123	B121690	1236003-02		
124	B121690	B121690-DUP1		1236003-02
125	B121690	B121690-MS1		25ul each of 1237008 & 1227035 up to 5ml
126	B121690	B121690-MSD1		25ul each of 1237008 & 1227035 up to 5ml
127	B121690	1236003-03		Int Stds crash, non-reportable
5		SEQ-CCV5		1212081
1		SEQ-CCB5		
101	B121690	1236003-01RE1	2x	
102	B121690	1236003-02RE1	2x	
103	B121690	B121690-DUP2	2x	1236003-02RE1
104	B121690	B121690-MS2	2x	25ul each of 1237008 & 1227035 up to 5ml
105	B121690	B121690-MSD2	2x	25ul each of 1237008 & 1227035 up to 5ml
106	B121690	1236003-03RE1	2x	
107	B121690	1236003-04	2x	
108	B121690	1236003-05	2x	Int Stds crash, non-reportable
109	B121690	1236003-06	2x	Int Stds crash, non-reportable
110	B121690	1236003-07	2x	
5		SEQ-CCV6		1212081
1		SEQ-CCB6		
126	B121690	1236003-05RE1	10x	
127	B121690	1236003-06RE1	10x	
128	B121690	1236003-08	2x	
129	B121690	1236003-09	2x	
130	B121690	1236003-10	2x	improperly prepped, do not use
129	B121690	1236003-10RE1	2x	
130	B121690	1236003-11	10x	
6		SEQ-CCV7		1212082
1		SEQ-CCB7		
131	B121690	1236003-12	10x	
132	B121690	B121690-DUP3	10x	1236003-12
133	B121690	B121690-MS3	10x	25ul each of 1237008 & 1227035 up to 5ml
134	B121690	B121690-MSD3	10x	25ul each of 1237008 & 1227035 up to 5ml
135	B121690	1236003-13	1000x	
136	B121690	1236003-14	1000x	
137	B121690	1236003-15	2x	
138	B121690	1236003-16	2x	
139	B121690	1236003-17	2x	
140	B121690	1236003-18	2x	
5		SEQ-CCV8		1212081
1		SEQ-CCB8		
141	B121690	1236012-01	2x	
142	B121690	1236012-02	2x	
143	B121690	B121690-DUP4	2x	1236012-02
144	B121690	B121690-MS4	2x	50ul each of 1237008 & 1227035 up to 5ml
145	B121690	B121690-MSD4	2x	50ul each of 1237008 & 1227035 up to 5ml
146	B121690	1236012-03	2x	

147	B121690	1236012-04	2x	
148	B121690	1236012-05	2x	
5		SEQ-CCV9		1212081
1		SEQ-CCB9		
149	B121690	1236012-06	2x	
150	B121690	B121690-DUP5	2x	1236012-06
151	B121690	B121690-MS5	2x	50ul each of 1237008 & 1227035 up to 5ml
152	B121690	B121690-MSD5	2x	50ul each of 1237008 & 1227035 up to 5ml
153	B121690	1236012-07	2x	
154	B121690	1236012-08	2x	
155	B121690	1236012-09	2x	
156	B121690	1236012-10	2x	
157	B121690	1236012-11	2x	
158	B121690	1236012-12	2x	
6		SEQ-CCVA		1212082
1		SEQ-CCBA		
159	B121690	1235020-01		
160	B121690	1235020-02		
201	B121690	B121690-DUP7		1235020-02
202	B121690	B121690-MS6		improperly prepped; 50ul of 1237008 up to 5ml
202	B121690	B121690-MS7		50ul of 1237008 up to 5ml
203	B121690	B121690-MSD7		50ul of 1237008 up to 5ml
7		SEQ-CCVB		
1		SEQ-CCBB		
204	B121690	1235020-03		
205	B121690	1235020-04		
206	B121690	1235020-05		
207	B121690	1235020-06		
208	B121690	1235020-07		
209	B121690	1235020-08		
6		SEQ-CCVC		1212082
1		SEQ-CCBC		
210	B121691	1237001-01	50x	sharse BLKS with B121711
211	B121691	B121691-DUP1	50x	1237001-01
212	B121691	B121691-MS1	50x	25ul of 1237008 up to 5ml
213	B121691	B121691-MSD1	50x	25ul of 1237008 up to 5ml
214	B121691	1237001-02	50x	
215	B121691	1237001-03	50x	
216	B121691	1237001-04	50x	
217	B121691	1237001-05	50x	
7		SEQ-CCVD		1212083
1		SEQ-CCBD		
218	B121713	B121713-BLK1	50x	
219	B121713	B121713-BLK2	50x	
220	B121713	B121713-BLK3	50x	
221	B121713	B121713-BLK4	50x	
222	B121713	B121713-BS1	50x	
223	B121713	B121713-SRM1	50x	
224	B121713	B121713-SRM2	50x	
7		SEQ-CCVE		1212083
1		SEQ-CCBE		
225	B121713	1233048-08RE1	50x	

226	B121713	B121713-DUP1	50x	
227	B121713	B121713-MS1	50x	
228	B121713	B121713-MSD1	50x	
229	B121713	1233048-09RE1	50x	
230	B121713	1233048-10RE1	50x	
231	B121713	1233048-11RE1	50x	
232	B121713	1233048-12RE1	50x	
233	B121713	1233048-13RE1	50x	
234	B121713	1233048-14RE1	50x	
7		SEQ-CCVF		1212083
1		SEQ-CCBF		
235	B121713	1233048-15RE1	50x	
236	B121713	1233048-16RE1	50x	
237	B121713	1233048-17RE1	50x	
238	B121713	1233048-18RE1	50x	
239	B121713	B121713-DUP2	50x	
240	B121713	B121713-MS2	50x	
241	B121713	B121713-MSD2	50x	
242	B121713	1233048-19RE1	50x	
243	B121713	1233048-20RE1	50x	
244	B121713	1233048-21RE1	50x	
7		SEQ-CCVG		1212083
1		SEQ-CCBG		
245	B121713	1233048-22RE1	50x	
246	B121713	1233048-23RE1	50x	
247	B121713	1233048-24RE1	50x	
248	B121713	1233048-25RE1	50x	
249	B121713	1233048-26RE1	50x	
250	B121713	1233038-13RE1	50x	
251	B121713	B121713-DUP3	50x	
252	B121713	B121713-MS3	50x	
253	B121713	B121713-MSD3	50x	
254	B121713	1233038-14RE1	50x	
7		SEQ-CCVH		1212083
1		SEQ-CCBH		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		

COPY

Trace Metals Method BR-0067 Rev 02 (ICP-MS)
Solid Sample Preparation by Oven Bomb Digestion

Digestion by: Reverse Aqua Regia

Batch #: B121472, 1473, 1539 Prepared By: CLE

Preparation Date and Time*: 1200 8/30/12

Matrix: seeds

Date and Time of Finished Preparation: 0945 8/31/12

Table with 6 columns: Bomb #, Sample ID, Sample Mass (g), Bomb Mass (g), Bomb Mass Pre-oven (g), Bomb Mass Post-oven (g). Rows include BLK1-4, SRM1-2, and various sample IDs like 1233007-01 to 212.

Table with 6 columns: Bomb #, Sample ID, Sample Mass (g), Bomb Mass (g), Bomb Mass Pre-oven (g), Bomb Mass Post-oven (g). Rows include 022, 005 B121472 DUPI, 323 MSI, 274 L MSDI, 219 1233007-06, 312 -07, 306 -08, 226 -09, 063 -10, 227 -11, 317 -12.

NOTE: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis. Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

Table with 4 columns: Sample ID, Spike ID, Spike Added (mL), Analyte/Concentration. Includes entries for B121472 BSI, MS/MSDI-2, B121473 BSI, 1473 MS/MSDI, B14539 MS/MSDI-3.

Spike Witnessed by Initials/Date: 8/30/12 TMM

+ SRM-Matrix-LIMS ID#: SPM1-NIST 2709a-0919050 SPM2-NIST 2710a-0919053

Reagents Added (ID/Amount Added):

1) 4mL HCl (1051060)

2) 12mL HNO3 (1229017)

+ If NIST 2710a prepped and samples to be analyzed for Pb, dilute 1000x at inst.

Balance ID: BL-03, BL-02, BL-01 Oven ID: OV-05

Target Temp: 130 °C

Measured Temp*/Date/Time In: M: B2 °C 1930 Out: M: 136 °C 0945 8/31/12

Final Dilution Volume: 50 mL

Environ. Express tube lot #:

Thermometer ID: TM-01

* Both measured and corrected temperatures must be recorded.

Comments: BL-01 used to weigh post oven mass.

COPY

Trace Metals Method BR-0067 Rev 002 (ICP-MS)
Solid Sample Preparation by Oven Bomb Digestion

Digestion by: Reverse Aqua Regia

Batch #: B121472, 1473, 1539

Prepared By: CLE

Preparation Date and Time*: 1200 8/30/12

Matrix: seds

Date and Time of Finished Preparation: 0945 8/31/12

Bomb #	Sample ID	Sample Mass (g)	Bomb Mass (g)	Bomb Mass Pre-oven (g)	Bomb Mass Post-oven (g)
290	1233007-13	0.501	132.34	154.15	153.99
220	-14	0.527	132.69	154.44	153.90
211	-15	0.521	132.37	154.08	153.73
287	-16	0.504	132.58	154.32	154.13
330	B121472 DUP2	0.526	130.03	151.88	151.62
348	MS2	0.538	129.76	151.63	151.50
384	MSD2	0.515	129.72	151.45	151.31
	B121472/13/14/15	-	-	-	-
253	B121472/13/14/15 BS1	-	131.34	152.76	152.60
308	1233010-01	0.516	130.28	152.46	152.26
315	-02	0.571	131.77	153.93	153.43
267	-03	0.543	132.80	154.69	154.59
204	B121473 DUP1	0.518	132.21	153.08	152.73
K326	MS1	0.564	129.48	151.54	151.02
L328	MSD1	0.511	129.49	151.57	151.15
251	1233048-08	0.522	129.28	151.02	150.45
276	B121539 DUP1	0.525	132.08	153.78	153.60
288	MS1	0.552	132.10	153.82	153.72
298	MSD1	0.586	130.52	152.50	152.44
283	1233048-09	0.637	132.82	154.67	154.53

Bomb #	Sample ID	Sample Mass (g)	Bomb Mass (g)	Bomb Mass Pre-oven (g)	Bomb Mass Post-oven (g)
331	1233048-10	0.498	132.36	154.04	153.94
247	-11	0.521	132.77	154.30	154.16
244	-12	0.521	132.42	154.13	153.92
252	-13	0.494	133.19	154.78	154.37
309	-14	0.510	131.17	153.07	152.93
338	-15	0.602	132.37	154.39	154.24
265	-16	0.535	132.38	154.28	154.15
310	-17	0.488	132.16	153.95	153.75
264	-18	0.498	132.81	154.52	154.40
293	B121539 DUP2	0.555	132.44	154.23	154.12
325	MS2	0.575	130.04	151.86	151.50
350	MSD2	0.508	129.88	151.63	151.57
245	1233048-19	0.526	130.97	152.91	152.80
281	-20	0.508	131.65	153.41	153.31
327	-21	0.536	129.69	151.85	151.54
257	-22	0.593	132.28	154.09	153.99
238	-23	0.521	131.97	153.85	153.77
333	-24	0.507	129.81	151.57	151.47
064	-25	0.526	132.18	153.91	153.52
256	-26	0.567	132.53	154.34	154.15

NOTE: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis.

Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

Comments: * spike added following addition of reagent. † Final vol. = ~51 mL.

Trace Metals Method BR-0067 Rev 002 (ICP-MS)
 Solid Sample Preparation by Oven Bomb Digestion

Digestion by: Reverse Aqua Regia

Batch #: B121472, 1473, 1539 Prepared By: CUE

Preparation Date and Time*: 1200 8/30/12

Matrix: sed

Date and Time of Finished Preparation: 0045 8/31/12

Bomb #	Sample ID	Sample Mass (g)	Bomb Mass (g)	Bomb Mass Pre-oven (g)	Bomb Mass Post-oven (g)
230	1233038-13 1233038-12	0.530	132.07	154.18	154.08
270	B121539 DUP3	0.498	131.53	153.35	153.25
303	MS3	0.528	130.22	151.79	151.65
300	MSD3	0.494	132.56	154.27	154.04
207	1233038-14	0.529	132.40	154.20	154.11

Bomb #	Sample ID	Sample Mass (g)	Bomb Mass (g)	Bomb Mass Pre-oven (g)	Bomb Mass Post-oven (g)

NOTE: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis.
 Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

Comments: D: source 1233038-14

Batch: B121472, 1473, 1539		Date: 8/31/2012		Warning level: 5%		
Analyst: CCE				Control Limit: 10%		
BRL Report 1233038						
Sample ID	Empty Bomb + Lid (g)	Bomb + Sample pre-oven (g)	Bomb + Sample post-oven (g)	Sample Loss %	OK?	Comments
BLK1	130.290	151.650	150.670	4.6%	y	
BLK2	132.650	154.040	153.550	2.3%	y	
BLK3	131.940	153.390	153.100	1.4%	y	
BLK4	130.010	151.450	151.120	1.5%	y	
B121472 BS1	130.330	151.290	150.560	3.5%	y	
SRM1	133.350	154.830	154.460	1.7%	y	
SRM2	130.160	151.810	151.560	1.2%	y	
1233007-01	133.120	154.690	154.450	1.1%	y	
1233007-02	132.580	154.420	154.120	1.4%	y	
1233007-03	132.520	154.440	154.080	1.6%	y	
1233007-04	132.760	154.570	154.260	1.4%	y	
1233007-05	132.370	154.190	153.880	1.4%	y	
B121472 DUP1	132.660	154.460	153.510	4.4%	y	
B121472 MS1	130.160	151.720	151.300	1.9%	y	
B121472 MSD1	132.660	154.220	153.950	1.3%	y	
1233007-06	133.210	154.780	154.230	2.5%	y	
1233007-07	133.150	154.710	154.320	1.8%	y	
1233007-08	126.590	148.310	147.280	4.7%	y	
1233007-09	132.170	154.110	153.520	2.7%	y	
1233007-10	132.000	153.950	153.330	2.8%	y	
1233007-11	132.450	154.360	153.890	2.1%	y	
1233007-12	130.290	152.110	151.330	3.6%	y	
1233007-13	132.340	154.150	153.990	0.7%	y	
1233007-14	132.690	154.440	153.900	2.5%	y	
1233007-15	132.370	154.080	153.730	1.6%	y	
1233007-16	132.580	154.320	154.130	0.9%	y	
B121472 DUP2	130.030	151.880	151.620	1.2%	y	
B121472 MS2	129.760	151.630	151.500	0.6%	y	
B121472 MSD2	129.720	151.450	151.310	0.6%	y	
B121473, 1539 BS1	131.340	152.760	152.600	0.7%	y	
1233010-01	130.280	152.460	152.260	0.9%	y	
1233010-02	131.770	153.930	153.430	2.3%	y	
1233010-03	132.800	154.690	154.590	0.5%	y	
B121473 DUP1	132.210	153.080	152.730	1.7%	y	
B121473 MS1	129.480	151.540	151.020	2.4%	y	
B121473 MSD1	129.490	151.570	151.150	1.9%	y	
1233048-08	129.280	151.020	150.450	2.6%	y	
B121539 DUP1	132.080	153.780	153.600	0.8%	y	
B121539 MS1	132.100	153.820	153.720	0.5%	y	
B121539 MSD1	130.520	152.500	152.440	0.3%	y	
1233048-09	132.820	154.670	154.530	0.6%	y	
1233048-10	132.360	154.040	153.940	0.5%	y	
1233048-11	132.770	154.300	154.160	0.7%	y	
1233048-12	132.420	154.130	153.920	1.0%	y	
1233048-13	133.190	154.780	154.370	1.9%	y	
1233048-14	131.170	153.070	152.930	0.6%	y	
1233048-15	132.370	154.390	154.240	0.7%	y	
1233048-16	132.380	154.280	154.150	0.6%	y	
1233048-17	132.160	153.950	153.750	0.9%	y	
1233048-18	132.810	154.520	154.400	0.6%	y	
B121539 DUP2	132.440	154.230	154.120	0.5%	y	
B121539 MS2	130.040	151.860	151.500	1.6%	y	
B121539 MSD2	129.880	151.630	151.570	0.3%	y	
1233048-19	130.970	152.910	152.800	0.5%	y	
1233048-20	131.650	153.410	153.310	0.5%	y	
1233048-21	129.690	151.690	151.540	0.7%	y	
1233048-22	132.280	154.090	153.990	0.5%	y	
1233048-23	131.870	153.850	153.770	0.4%	y	

Batch: B121472, 1473, 1539		Date: 8/31/2012		Warning level: 5%	
Analyst: CCE				Control Limit: 10%	
				BRL Report 1233038	
	Empty Bomb +	Bomb + Sample	Bomb + Sample	Sample	
Sample ID	Lid (g)	pre-oven (g)	post-oven (g)	Loss %	OK?
					Comments
1233048-24	129.810	151.570	151.470	0.5%	y
1233048-25	132.180	153.910	153.520	1.8%	y
1233048-26	132.530	154.340	154.150	0.9%	y
1233038-13	132.070	154.180	154.080	0.5%	y
1233038-14	131.530	153.350	153.250	0.5%	y
B121539 DUP3	130.220	151.790	151.650	0.6%	y
B121539 MS3	132.560	154.270	154.040	1.1%	y
B121539 MSD3	132.400	154.200	154.110	0.4%	y

B121472, 1473, 1539
RAR

Samples spiked: B121473/1539 BS1, B121473 MS/MSD1, B121539 MS/MSD1-3

Element	Target Conc. (mg/kg)	spike conc w/ 0.1mL spike vol and 0.5g sample	mL from stock into 10mL tube	ppm	LIMS ID
As	13.000	65.000	0.650	1000	1148020
Cd	0.700	3.500	0.350	100	1216069
Cr	25.000	125.000	1.250	1000	1226011
Cu	20.000	100.000	1.000	1000	1226016
Pb	10.000	50.000	0.500	1000	1226022
Se	10.000	50.000	0.500	1000	1148021

Spike mix ID:
1235021

Add 5.75mL 2% HNO3

Samples spiked: B121472 BS1, MS/MSD1-2

Element	Target Conc. (mg/kg)	vol to spike directly to 0.5g sample	ppm	LIMS ID
Nd	50.000	25.000 0.025ml	1000	1107062

* Standard expired on 7/28/12.

Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT

Batch ID:

Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL4.069

Tuning File: C:\Elandata\Tuning\Default.tun

Optimization File: C:\Elandata\Optimize\Default.dac

Blank File:

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Calibration Type: External Calibration

Calibration

Analyte	MassCurve Type	Slope	Intercept	Correlation Coefficient	Std 1 Conc
AsO	91Weighted Linear	0.005	-0.000	0.999670	0.025000
Se	78Weighted Linear	0.001	-0.000	0.996754	0.050000
Se	77Weighted Linear	0.000	-0.000	0.998018	0.050000
Rh	103Weighted Linear				
Br	79Weighted Linear				
Cl	35Weighted Linear				
C	13Weighted Linear				

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:45:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91		12	2	14.4			ug/L
Se	78		6	1	19.2			ug/L
Se	77		2	1	32.8			ug/L
Rh	103		157933	2838	1.8			ug/L
Br	79		3	3	100.0			ug/L
Cl	35		227	15	6.5			ug/L
C	13		1127	95	8.4			ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:47:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 2

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL1.066

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	28	8	29.4	0.000099	0.0252	ug/L
Se	78	6	8	1	11.0	0.000012	0.0462	ug/L
Se	77	2	3	1	36.1	0.000004	0.0520	ug/L
Rh	103	157933	158069	1105	0.7	158069.087015		ug/L
Br	79	3	8	4	57.7	5.000003		ug/L
Cl	35	227	230	16	6.8	3.333418		ug/L
C	13	1127	1150	22	1.9	23.335941		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:48:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL2.067

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	45	5	10.6	0.000213	0.0495	ug/L
Se	78	6	14	2	11.6	0.000050	0.1145	ug/L
Se	77	2	4	0	10.7	0.000011	0.0970	ug/L
Rh	103	157933	154613	9305	6.0	154612.621627		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	233	16	6.9	6.666837		ug/L
C	13	1127	1153	87	7.5	25.836514		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:50:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL3.068

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	188	10	5.2	0.001108	0.2401	ug/L
Se	78	6	27	5	17.0	0.000131	0.2605	ug/L
Se	77	2	7	1	8.4	0.000031	0.2199	ug/L
Rh	103	157933	158561	1723	1.1	158560.937597		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	242	20	8.4	15.000394		ug/L
C	13	1127	1198	19	1.6	71.675513		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:51:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL4.069

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	733	26	3.6	0.004574	0.9786	ug/L
Se	78	6	85	2	2.7	0.000500	0.9246	ug/L
Se	77	2	26	5	20.1	0.000154	0.9786	ug/L
Rh	103	157933	157578	2804	1.8	157577.567744		ug/L
Br	79	3	1	1	173.2	-1.666667		ug/L
Cl	35	227	225	4	1.9	-1.666715		ug/L
C	13	1127	1137	73	6.5	10.001110		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL5

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:53:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL5.070

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3839	22	0.6	0.023980	5.1133	ug/L
Se	78	6	430	9	2.2	0.002654	4.7999	ug/L
Se	77	2	133	11	8.2	0.000822	5.0883	ug/L
Rh	103	157933	159597	1215	0.8	159597.114121		ug/L
Br	79	3	3	3	86.6	0.833334		ug/L
Cl	35	227	215	44	20.7	-11.666886		ug/L
C	13	1127	1153	19	1.6	25.836253		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:54:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL6.071

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	18899	364	1.9	0.119546	25.4754	ug/L
Se	78	6	2217	28	1.3	0.013992	25.2022	ug/L
Se	77	2	669	18	2.7	0.004220	25.9987	ug/L
Rh	103	157933	157992	3111	2.0	157992.237283		ug/L
Br	79	3	3	4	114.6	0.833334		ug/L
Cl	35	227	246	3	1.2	19.167157		ug/L
C	13	1127	1198	41	3.4	70.842118		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL7

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:55:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL7.072

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	93964	1439	1.5	0.602743	128.4286	ug/L
Se	78	6	10668	97	0.9	0.068406	123.1122	ug/L
Se	77	2	3251	30	0.9	0.020846	128.3181	ug/L
Rh	103	157933	155876	2489	1.6	155876.049232		ug/L
Br	79	3	8	7	88.2	5.000004		ug/L
Cl	35	227	263	14	5.3	35.834297		ug/L
C	13	1127	1222	20	1.7	95.011954		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CAL8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:57:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 9

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL8.073

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	366759	2435	0.7	2.328676	496.1671	ug/L
Se	78	6	44307	773	1.7	0.281205	506.0113	ug/L
Se	77	2	13410	271	2.0	0.085100	523.7537	ug/L
Rh	103	157933	157667	7031	4.5	157667.254717		ug/L
Br	79	3	9	5	56.8	6.666672		ug/L
Cl	35	227	248	33	13.1	20.833908		ug/L
C	13	1127	1170	69	5.9	43.338650		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:58:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB2.074

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	390	245	62.7	0.002403	0.5161	ug/L
Se	78	6	99	18	18.6	0.000589	1.0853	ug/L
Se	77	2	34	3	9.7	0.000202	1.2734	ug/L
Rh	103	157933	157560	1437	0.9	157560.400292		ug/L
Br	79	3	1	1	173.2	-1.666667		ug/L
Cl	35	227	202	15	7.3	-25.000589		ug/L
C	13	1127	1143	16	1.4	16.668425		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.764
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICV1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:00:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICV1.075

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4015	62	1.5	0.024730	5.2732	ug/L
Se	78	6	983	1	0.1	0.006033	10.8811	ug/L
Se	77	2	303	3	1.1	0.001860	11.4765	ug/L
Rh	103	157933	161857	1252	0.8	161856.540408		ug/L
Br	79	3	4	4	91.7	1.666668		ug/L
Cl	35	227	248	25	10.3	20.833892		ug/L
C	13	1127	1122	80	7.1	-5.000716		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	102.484
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-ICB3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:02:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB3.076

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	70	56	80.4	0.000354	0.0796	ug/L
Se	78	6	19	5	26.9	0.000077	0.1645	ug/L
Se	77	2	4	2	48.9	0.000014	0.1130	ug/L
Rh	103	157933	160949	4894	3.0	160948.937902		ug/L
Br	79	3	2	3	173.2	-0.833333		ug/L
Cl	35	227	256	22	8.4	29.167450		ug/L
C	13	1127	1157	43	3.7	30.003503		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	101.910
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:04:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 101

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL1.077

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	25	4	14.9	0.000085	0.0222	ug/L
Se	78	6	8	1	6.2	0.000013	0.0482	ug/L
Se	77	2	2	1	34.6	0.000001	0.0363	ug/L
Rh	103	157933	157529	3143	2.0	157529.314286		ug/L
Br	79	3	0	0		-2.500001		ug/L
Cl	35	227	224	32	14.1	-2.500033		ug/L
C	13	1127	1157	33	2.9	30.003476		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.745
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:05:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL2.078

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	17	3	17.6	0.000032	0.0110	ug/L
Se	78	6	9	0	5.7	0.000015	0.0525	ug/L
Se	77	2	3	0	14.8	0.000004	0.0559	ug/L
Rh	103	157933	156933	1449	0.9	156933.022181		ug/L
Br	79	3	3	1	43.3	0.833333		ug/L
Cl	35	227	237	3	1.2	10.000247		ug/L
C	13	1127	1188	68	5.8	61.674359		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.367
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:07:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL3.079

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	16	3	19.7	0.000028	0.0100	ug/L
Se	78	6	6	1	24.9	-0.000002	0.0208	ug/L
Se	77	2	2	1	28.4	-0.000000	0.0264	ug/L
Rh	103	157933	157157	328	0.2	157156.766649		ug/L
Br	79	3	4	1	34.6	1.666667		ug/L
Cl	35	227	247	9	3.8	20.000516		ug/L
C	13	1127	1207	110	9.1	80.010378		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.509
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-IBL4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:08:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 104

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL4.080

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	13	2	15.6	0.000009	0.0059	ug/L
Se	78	6	8	0	3.1	0.000009	0.0407	ug/L
Se	77	2	2	1	34.6	-0.000002	0.0196	ug/L
Rh	103	157933	157454	2022	1.3	157454.494511		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	268	16	5.8	40.834444		ug/L
C	13	1127	1196	64	5.3	69.175320		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.697
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-SCV1

Sample Description: 5x

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:10:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 105

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-SCV1.081

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	9699	57	0.6	0.059390	63.2909	ug/L
Se	78	6	232	10	4.2	0.001380	12.5391	ug/L
Se	77	2	75	1	1.2	0.000448	13.9233	ug/L
Rh	103	157933	163092	177	0.1	163092.448035		ug/L
Br	79	3	5	4	86.6	2.500001		ug/L
Cl	35	227	263	16	6.2	36.667657		ug/L
C	13	1127	1239	50	4.0	112.514400		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	103.267
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:12:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV1.082

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	728	34	4.7	0.004539	0.9713	ug/L
Se	78	6	87	5	5.3	0.000512	0.9460	ug/L
Se	77	2	26	2	7.2	0.000154	0.9745	ug/L
Rh	103	157933	157768	3851	2.4	157767.739211		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	238	36	15.2	11.667005		ug/L
C	13	1127	1150	80	7.0	23.336161		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.895
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:14:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB1.083

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	14	4	28.2	0.000017	0.0076	ug/L
Se	78	6	6	1	12.8	-0.000000	0.0250	ug/L
Se	77	2	2	1	31.2	-0.000001	0.0204	ug/L
Rh	103	157933	155824	4758	3.1	155824.090565		ug/L
Br	79	3	1	1	173.2	-1.666667		ug/L
Cl	35	227	277	31	11.0	50.001411		ug/L
C	13	1127	1200	44	3.7	73.342459		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	98.665
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BLK1

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:16:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK1.084

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	11	2	13.5	-0.000004	0.0032	ug/L
Se	78	6	5	0	7.3	-0.000007	0.0128	ug/L
Se	77	2	1	1	56.7	-0.000003	0.0098	ug/L
Rh	103	157933	157993	1130	0.7	157992.779650		ug/L
Br	79	3	3	4	173.2	0.000000		ug/L
Cl	35	227	245	23	9.4	18.333820		ug/L
C	13	1127	1196	61	5.1	69.175309		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.038
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BLK2

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:17:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK2.085

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7			-0.000032	-0.0028	ug/L
Se	78	6	4	1	25.5	-0.000015	-0.0019	ug/L
Se	77	2	1	1	36.7	-0.000003	0.0091	ug/L
Rh	103	157933	159958	1919	1.2	159958.461076		ug/L
Br	79	3	3	1	43.3	0.833333		ug/L
Cl	35	227	253	9	3.6	25.834009		ug/L
C	13	1127	1178	74	6.3	51.673085		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	101.283
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BLK3

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:19:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK3.086

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7	1	15.7	-0.000030	-0.0023	ug/L
Se	78	6	4	1	20.2	-0.000012	0.0028	ug/L
Se	77	2	1	1	68.9	-0.000005	-0.0007	ug/L
Rh	103	157933	160154	1777	1.1	160154.346149		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	253	15	6.0	26.667371		ug/L
C	13	1127	1138	46	4.0	10.834428		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	101.407
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BLK4

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:20:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK4.087

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	5	2	40.0	-0.000044	-0.0054	ug/L
Se	78	6	4	1	28.3	-0.000014	-0.0006	ug/L
Se	77	2	2	1	50.0	-0.000003	0.0128	ug/L
Rh	103	157933	158331	660	0.4	158331.058994		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	255	23	9.0	28.334095		ug/L
C	13	1127	1195	67	5.6	68.341893		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.252
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BS1

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:22:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BS1.088

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3281	31	0.9	0.020188	4.3054	ug/L
Se	78	6	379	5	1.2	0.002302	4.1665	ug/L
Se	77	2	111	3	2.7	0.000674	4.1796	ug/L
Rh	103	157933	161917	1584	1.0	161916.799569		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	243	7	3.0	16.667092		ug/L
C	13	1127	1236	109	8.8	109.180957		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	102.523
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237023-01

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:23:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 111

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-01.089

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	9187	40	0.4	0.060513	12.8974	ug/L
Se	78	6	14	0	1.0	0.000049	0.1143	ug/L
Se	77	2	4	0	10.0	0.000013	0.1102	ug/L
Rh	103	157933	151633	1201	0.8	151632.508733		ug/L
Br	79	3	32	7	22.8	29.166723		ug/L
Cl	35	227	239	10	4.2	12.500316		ug/L
C	13	1127	1075	46	4.3	-51.673179		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.011
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-DUP1

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:29:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 112

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-DUP1.090

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	9134	101	1.1	0.060963	12.9933	ug/L
Se	78	6	10	1	10.0	0.000026	0.0723	ug/L
Se	77	2	3	1	31.0	0.000007	0.0711	ug/L
Rh	103	157933	149642	370	0.2	149641.543832		ug/L
Br	79	3	33	4	13.3	30.000058		ug/L
Cl	35	227	243	46	19.0	16.667168		ug/L
C	13	1127	1161	83	7.2	34.170888		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	94.750
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-MS1

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:31:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 113

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-MS1.091

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	48325	301	0.6	0.321593	68.5249	ug/L
Se	78	6	10	1	12.3	0.000026	0.0728	ug/L
Se	77	2	5	2	34.6	0.000021	0.1560	ug/L
Rh	103	157933	150235	669	0.4	150235.396314		ug/L
Br	79	3	28	5	18.2	25.000042		ug/L
Cl	35	227	258	26	10.3	30.834172		ug/L
C	13	1127	1103	57	5.2	-24.169842		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.126
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-MSD1

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:32:37

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 114

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-MSD1.092

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	48547	110	0.2	0.320248	68.2382	ug/L
Se	78	6	10	1	5.4	0.000023	0.0667	ug/L
Se	77	2	3	1	23.6	0.000005	0.0629	ug/L
Rh	103	157933	151579	2094	1.4	151579.236515		ug/L
Br	79	3	38	17	43.4	35.833424		ug/L
Cl	35	227	237	10	4.3	10.000251		ug/L
C	13	1127	1148	8	0.7	21.669048		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.977
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:34:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV2.093

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	800	34	4.2	0.005049	1.0800	ug/L
Se	78	6	90	4	3.9	0.000534	0.9868	ug/L
Se	77	2	28	3	9.7	0.000165	1.0455	ug/L
Rh	103	157933	156051	2648	1.7	156050.703248		ug/L
Br	79	3	1	1	173.2	-1.666667		ug/L
Cl	35	227	254	39	15.2	27.500774		ug/L
C	13	1127	1186	36	3.0	59.173907		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	98.808
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:35:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB2.094

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	61	65	107.9	0.000307	0.0695	ug/L
Se	78	6	4	0	10.4	-0.000018	-0.0065	ug/L
Se	77	2	1	0	34.6	-0.000007	-0.0132	ug/L
Rh	103	157933	158965	1705	1.1	158965.407549		ug/L
Br	79	3	0	0		-2.500001		ug/L
Cl	35	227	244	9	3.6	17.500448		ug/L
C	13	1127	1178	24	2.0	50.839465		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.654
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:38:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV3.095

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	735	30	4.1	0.004706	1.0069	ug/L
Se	78	6	80	2	2.9	0.000480	0.8887	ug/L
Se	77	2	26	3	13.5	0.000155	0.9831	ug/L
Rh	103	157933	153862	3840	2.5	153862.486000		ug/L
Br	79	3	3	0	0.0	-0.000000		ug/L
Cl	35	227	253	27	10.7	25.834033		ug/L
C	13	1127	1221	75	6.1	94.178700		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	97.423
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:39:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB3.096

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	12	9	70.8	0.000001	0.0044	ug/L
Se	78	6	3	1	23.9	-0.000019	-0.0097	ug/L
Se	77	2	1	1	75.0	-0.000006	-0.0069	ug/L
Rh	103	157933	160311	2119	1.3	160311.290427		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	261	12	4.5	34.167580		ug/L
C	13	1127	1156	35	3.1	29.170042		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	101.506
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237023-02

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:41:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 115

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-02.097

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	9551	71	0.7	0.061896	13.1922	ug/L
Se	78	6	10	2	24.3	0.000021	0.0639	ug/L
Se	77	2	4	1	37.1	0.000011	0.0942	ug/L
Rh	103	157933	154123	841	0.5	154123.008384		ug/L
Br	79	3	26	3	11.2	23.333370		ug/L
Cl	35	227	248	14	5.5	21.667232		ug/L
C	13	1127	1119	44	3.9	-7.501187		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	97.588
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237023-05

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:42:37

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 116

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-05.098

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	24226	57	0.2	0.160888	34.2839	ug/L
Se	78	6	7	1	15.5	0.000004	0.0331	ug/L
Se	77	2	3	1	39.8	0.000007	0.0704	ug/L
Rh	103	157933	150504	293	0.2	150503.937389		ug/L
Br	79	3	39	8	19.5	36.666753		ug/L
Cl	35	227	244	17	6.8	17.500455		ug/L
C	13	1127	1094	60	5.5	-32.504170		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.296
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237023-06

Sample Description:

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:44:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 117

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-06.099

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	24276	292	1.2	0.163281	34.7937	ug/L
Se	78	6	5	1	10.4	-0.000005	0.0154	ug/L
Se	77	2	3	1	39.7	0.000009	0.0854	ug/L
Rh	103	157933	148636	1728	1.2	148636.186644		ug/L
Br	79	3	44	6	13.1	41.666775		ug/L
Cl	35	227	258	6	2.2	31.667505		ug/L
C	13	1127	1103	7	0.7	-23.336526		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	94.114
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:45:54

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV4.100

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	749	24	3.2	0.004652	0.9953	ug/L
Se	78	6	84	8	9.5	0.000490	0.9076	ug/L
Se	77	2	26	3	10.6	0.000152	0.9621	ug/L
Rh	103	157933	158345	534	0.3	158345.468039		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	239	17	7.0	12.500323		ug/L
C	13	1127	1162	53	4.6	35.004176		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.261
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:47:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB4.101

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	13	3	20.4	0.000007	0.0057	ug/L
Se	78	6	3	1	35.6	-0.000020	-0.0103	ug/L
Se	77	2	1	0	43.3	-0.000006	-0.0059	ug/L
Rh	103	157933	155554	2121	1.4	155553.873463		ug/L
Br	79	3	2	3	173.2	-0.833333		ug/L
Cl	35	227	248	11	4.5	21.667230		ug/L
C	13	1127	1246	26	2.1	119.181910		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	98.494
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-19

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 15:49:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 118

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-19.102

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	6	1	9.1	-0.000036	-0.0036	ug/L
Se	78	6	2	1	37.5	-0.000027	-0.0234	ug/L
Se	77	2	1	1	44.6	-0.000005	-0.0005	ug/L
Rh	103	157933	158702	4854	3.1	158702.443746		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	238	38	15.9	10.833654		ug/L
C	13	1127	1153	28	2.4	26.669707		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.487
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-13

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 15:50:49

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 119

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-13.103

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	14	5	32.7	0.000014	0.0071	ug/L
Se	78	6	3	1	28.9	-0.000021	-0.0121	ug/L
Se	77	2	1	1	36.7	-0.000003	0.0109	ug/L
Rh	103	157933	155057	2062	1.3	155057.153173		ug/L
Br	79	3	1	1	173.2	-1.666667		ug/L
Cl	35	227	262	7	2.8	35.000934		ug/L
C	13	1127	1226	54	4.4	99.179275		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	98.179
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-09

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 15:52:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 120

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-09.104

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	8	2	27.2	-0.000027	-0.0017	ug/L
Se	78	6	3	0	12.5	-0.000021	-0.0125	ug/L
Se	77	2	1	0	57.7	-0.000007	-0.0160	ug/L
Rh	103	157933	157592	2737	1.7	157591.967656		ug/L
Br	79	3	3	0	0.0	-0.000000		ug/L
Cl	35	227	237	36	15.0	10.000293		ug/L
C	13	1127	1178	59	5.0	50.839572		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.784
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-10

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 15:53:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 121

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-10.105

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	9	3	30.9	-0.000017	0.0004	ug/L
Se	78	6	3	0	14.3	-0.000022	-0.0139	ug/L
Se	77	2	1	0	41.7	-0.000006	-0.0099	ug/L
Rh	103	157933	158905	701	0.4	158905.114214		ug/L
Br	79	3	2	3	173.2	-0.833333		ug/L
Cl	35	227	239	24	9.9	12.500333		ug/L
C	13	1127	1170	22	1.9	43.338493		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.616
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-01

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 15:55:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 122

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-01.106

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	108	7	6.8	0.000701	0.1534	ug/L
Se	78	6	85	6	7.3	0.000574	1.0583	ug/L
Se	77	2	47	2	4.0	0.000327	2.0437	ug/L
Rh	103	157933	138573	2920	2.1	138572.614195		ug/L
Br	79	3	200	34	16.8	197.502241		ug/L
Cl	35	227	253	26	10.5	25.834032		ug/L
C	13	1127	1133	55	4.9	6.667274		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.741
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-02

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:03:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 123

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-02.107

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	63	7	11.1	0.000433	0.0964	ug/L
Se	78	6	298	11	3.7	0.002364	4.2797	ug/L
Se	77	2	99	3	3.2	0.000787	4.8743	ug/L
Rh	103	157933	123748	700	0.6	123748.240025		ug/L
Br	79	3	881	25	2.9	878.376031		ug/L
Cl	35	227	242	22	8.9	15.000396		ug/L
C	13	1127	1047	71	6.8	-80.009712		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	78.355
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP1

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:04:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 124

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP1.108

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	57	11	19.4	0.000406	0.0906	ug/L
Se	78	6	275	3	1.1	0.002297	4.1582	ug/L
Se	77	2	91	4	3.9	0.000764	4.7323	ug/L
Rh	103	157933	117804	2173	1.8	117804.372299		ug/L
Br	79	3	922	36	3.9	919.213437		ug/L
Cl	35	227	215	29	13.4	-11.666927		ug/L
C	13	1127	1023	42	4.1	-104.179249		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	74.591
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS1

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:06:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 125

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS1.109

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	6260	53	0.8	0.055052	11.7338	ug/L
Se	78	6	6487	84	1.3	0.057078	102.7294	ug/L
Se	77	2	1931	12	0.6	0.016990	104.5879	ug/L
Rh	103	157933	113565	1112	1.0	113564.976663		ug/L
Br	79	3	794	38	4.7	791.701408		ug/L
Cl	35	227	195	35	18.1	-31.667363		ug/L
C	13	1127	1032	61	5.9	-95.011476		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	71.907
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD1

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:07:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 126

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD1.110

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	6168	64	1.0	0.054991	11.7209	ug/L
Se	78	6	6398	56	0.9	0.057081	102.7338	ug/L
Se	77	2	1924	41	2.1	0.017161	105.6434	ug/L
Rh	103	157933	112015	616	0.5	112015.060284		ug/L
Br	79	3	853	58	6.8	850.040095		ug/L
Cl	35	227	229	6	2.7	2.500056		ug/L
C	13	1127	964	71	7.3	-162.518837		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	70.926
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-03

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:09:00

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-03.111

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	268	27	10.3	0.001729	0.3724	ug/L
Se	78	6	37	3	7.8	0.000211	0.4042	ug/L
Se	77	2	13	2	13.7	0.000074	0.4836	ug/L
Rh	103	157933	148349	452	0.3	148348.952264		ug/L
Br	79	3	73	6	7.9	70.833630		ug/L
Cl	35	227	248	36	14.6	20.833916		ug/L
C	13	1127	1277	25	2.0	150.019520		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.932
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV5

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 16:10:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV5.112

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	730	30	4.2	0.004757	1.0176	ug/L
Se	78	6	83	2	2.7	0.000507	0.9383	ug/L
Se	77	2	23	2	10.0	0.000137	0.8712	ug/L
Rh	103	157933	151006	1505	1.0	151005.564816		ug/L
Br	79	3	8	4	57.7	5.000003		ug/L
Cl	35	227	233	38	16.4	6.666881		ug/L
C	13	1127	1292	69	5.3	165.021789		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.614
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB5

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 16:11:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB5.113

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4	2	48.0	-0.000047	-0.0059	ug/L
Se	78	6	8	3	44.2	0.000011	0.0457	ug/L
Se	77	2	3	1	28.6	0.000006	0.0636	ug/L
Rh	103	157933	150825	1773	1.2	150825.137917		ug/L
Br	79	3	9	5	56.8	6.666672		ug/L
Cl	35	227	213	26	12.2	-14.166992		ug/L
C	13	1127	1222	46	3.8	95.012017		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.500
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-01RE1

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:35:59

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 101

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-01RE1.114

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	53	2	4.0	0.000292	0.1325	ug/L
Se	78	6	42	5	11.8	0.000253	0.9608	ug/L
Se	77	2	24	2	6.4	0.000154	1.9501	ug/L
Rh	103	157933	143281	1719	1.2	143281.233840		ug/L
Br	79	3	90	16	18.2	87.500455		ug/L
Cl	35	227	230	41	17.8	3.333471		ug/L
C	13	1127	1223	70	5.7	96.679011		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.723
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-02RE1

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:37:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-02RE1.115

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	28	5	17.8	0.000137	0.0665	ug/L
Se	78	6	148	2	1.3	0.001074	3.9148	ug/L
Se	77	2	52	2	3.8	0.000375	4.6694	ug/L
Rh	103	157933	133156	1465	1.1	133155.660840		ug/L
Br	79	3	408	37	9.2	405.009184		ug/L
Cl	35	227	222	9	4.3	-5.000128		ug/L
C	13	1127	1213	49	4.1	86.677578		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	84.312
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP2

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:38:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP2.116

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	32	4	12.8	0.000176	0.0831	ug/L
Se	78	6	139	1	0.6	0.001066	3.8872	ug/L
Se	77	2	52	4	7.0	0.000406	5.0540	ug/L
Rh	103	157933	125620	8803	7.0	125619.746378		ug/L
Br	79	3	466	81	17.3	463.345507		ug/L
Cl	35	227	209	13	6.0	-17.500422		ug/L
C	13	1127	1176	25	2.1	49.172584		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	79.540
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS2

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:40:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 104

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS2.117

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3156	62	2.0	0.023936	10.2083	ug/L
Se	78	6	449	2	0.4	0.003374	12.1936	ug/L
Se	77	2	138	2	1.2	0.001040	12.8556	ug/L
Rh	103	157933	131439	128	0.1	131439.208726		ug/L
Br	79	3	435	8	1.7	432.510409		ug/L
Cl	35	227	236	18	7.4	9.166903		ug/L
C	13	1127	1156	14	1.2	29.170004		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.225
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD2

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:41:52

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 105

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD2.118

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3206	48	1.5	0.024323	10.3728	ug/L
Se	78	6	451	6	1.3	0.003394	12.2633	ug/L
Se	77	2	140	3	2.1	0.001053	13.0217	ug/L
Rh	103	157933	131409	741	0.6	131408.792868		ug/L
Br	79	3	410	31	7.5	407.509280		ug/L
Cl	35	227	223	8	3.6	-3.333421		ug/L
C	13	1127	1106	54	4.9	-20.836118		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.205
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-03RE1

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:43:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-03RE1.119

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	131	12	8.8	0.000780	0.3406	ug/L
Se	78	6	7	3	34.0	0.000008	0.0780	ug/L
Se	77	2	3	1	24.1	0.000009	0.1640	ug/L
Rh	103	157933	152817	2911	1.9	152816.506264		ug/L
Br	79	3	30	15	50.0	27.500057		ug/L
Cl	35	227	237	45	19.2	10.000323		ug/L
C	13	1127	1307	57	4.4	180.023879		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.760
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-04

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:44:48

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-04.120

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	43	6	14.1	0.000207	0.0964	ug/L
Se	78	6	5	1	25.4	-0.000005	0.0318	ug/L
Se	77	2	1	1	65.5	-0.000004	0.0032	ug/L
Rh	103	157933	153026	1001	0.7	153026.392331		ug/L
Br	79	3	30	5	16.7	27.500050		ug/L
Cl	35	227	248	20	7.9	20.833883		ug/L
C	13	1127	1220	48	3.9	93.345132		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.893
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-05

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:46:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-05.121

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	821	29	3.5	0.009366	3.9996	ug/L
Se	78	6	256	3	1.3	0.002904	10.4997	ug/L
Se	77	2	292	9	3.0	0.003341	41.1788	ug/L
Rh	103	157933	86982	1200	1.4	86981.690638		ug/L
Br	79	3	601	21	3.5	598.353204		ug/L
Cl	35	227	259	16	6.3	32.500870		ug/L
C	13	1127	946	81	8.6	-180.854037		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	55.075
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-06

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:47:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-06.122

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	186	5	2.7	0.001927	0.8291	ug/L
Se	78	6	9	2	27.6	0.000056	0.2527	ug/L
Se	77	2	4	1	32.7	0.000026	0.3742	ug/L
Rh	103	157933	92713	385	0.4	92712.869065		ug/L
Br	79	3	360	37	10.3	357.507178		ug/L
Cl	35	227	238	18	7.4	11.666969		ug/L
C	13	1127	1137	35	3.1	10.000958		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	58.704
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-07

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:49:12

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-07.123

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	206	10	5.0	0.001496	0.6456	ug/L
Se	78	6	8	1	18.6	0.000020	0.1212	ug/L
Se	77	2	2	0	17.6	0.000004	0.1122	ug/L
Rh	103	157933	131303	685	0.5	131303.112695		ug/L
Br	79	3	31	4	12.4	28.333386		ug/L
Cl	35	227	253	35	14.0	25.834052		ug/L
C	13	1127	1328	11	0.8	200.860117		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.139
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 16:50:42

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV6.124

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	716	6	0.8	0.004979	1.0649	ug/L
Se	78	6	68	5	7.0	0.000437	0.8112	ug/L
Se	77	2	19	2	8.6	0.000125	0.7988	ug/L
Rh	103	157933	141589	689	0.5	141589.108014		ug/L
Br	79	3	17	4	22.9	14.166682		ug/L
Cl	35	227	247	12	4.8	20.000518		ug/L
C	13	1127	1313	25	1.9	185.857956		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.651
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 16:52:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB6.125

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	6	3	53.9	-0.000037	-0.0038	ug/L
Se	78	6	2	1	26.0	-0.000024	-0.0179	ug/L
Se	77	2	1	0	86.6	-0.000009	-0.0241	ug/L
Rh	103	157933	145480	2170	1.5	145479.971800		ug/L
Br	79	3	9	5	56.8	6.666672		ug/L
Cl	35	227	237	41	17.2	10.000308		ug/L
C	13	1127	1434	77	5.4	307.543202		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	92.115
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-05RE1

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:15:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 126

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-05RE1.126

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	57	4	7.0	0.000338	0.7612	ug/L
Se	78	6	4	1	24.9	-0.000011	0.0499	ug/L
Se	77	2	1	0	0.0	-0.000003	0.1013	ug/L
Rh	103	157933	138435	1233	0.9	138435.294565		ug/L
Br	79	3	89	16	18.0	86.667113		ug/L
Cl	35	227	256	18	6.9	29.167444		ug/L
C	13	1127	1238	47	3.8	111.680941		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.655
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-06RE1

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:16:48

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-06RE1.127

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	135	4	3.2	0.000835	1.8204	ug/L
Se	78	6	7	0	5.5	0.000007	0.3813	ug/L
Se	77	2	3	0	5.4	0.000006	0.6532	ug/L
Rh	103	157933	148158	588	0.4	148158.387226		ug/L
Br	79	3	17	13	75.5	14.166687		ug/L
Cl	35	227	282	33	11.6	55.001569		ug/L
C	13	1127	1265	13	1.0	138.351206		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.811
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-08

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:18:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 128

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-08.128

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	88	17	19.5	0.000537	0.2369	ug/L
Se	78	6	15	1	7.2	0.000065	0.2849	ug/L
Se	77	2	5	1	19.9	0.000023	0.3430	ug/L
Rh	103	157933	144195	1099	0.8	144194.610004		ug/L
Br	79	3	8	5	66.7	5.000003		ug/L
Cl	35	227	265	11	4.1	38.334366		ug/L
C	13	1127	1336	5	0.4	209.194667		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.301
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-09

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:19:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 129

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-09.129

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	47	3	6.4	0.000249	0.1144	ug/L
Se	78	6	15	3	19.3	0.000065	0.2859	ug/L
Se	77	2	4	0	3.3	0.000018	0.2780	ug/L
Rh	103	157933	144572	210	0.1	144572.160685		ug/L
Br	79	3	13	0	0.0	10.000008		ug/L
Cl	35	227	251	17	6.6	24.167304		ug/L
C	13	1127	1291	38	2.9	164.188216		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.540
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-10

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:21:12

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-10.130

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3	1	21.7	-0.000068	-0.0206	ug/L
Se	78	6	3	1	50.6	-0.000032	-0.0631	ug/L
Se	77	2	0	0	100.0	-0.000011	-0.0813	ug/L
Rh	103	157933	318832	15959	5.0	318831.796050		ug/L
Br	79	3	0	0		-2.500001		ug/L
Cl	35	227	173	67	39.0	-54.167698		ug/L
C	13	1127	3609	388	10.8	2482.318293		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	201.878
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-10RE1

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:27:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 129

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-10RE1.131

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	60	4	5.8	0.000355	0.1593	ug/L
Se	78	6	17	0	1.8	0.000080	0.3369	ug/L
Se	77	2	4	1	24.7	0.000015	0.2466	ug/L
Rh	103	157933	140107	2417	1.7	140106.595646		ug/L
Br	79	3	17	13	77.0	14.166687		ug/L
Cl	35	227	253	15	6.0	25.834015		ug/L
C	13	1127	1284	68	5.3	157.520722		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.713
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-11

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:29:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-11.132

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	149	6	4.0	0.000957	2.0804	ug/L
Se	78	6	13	2	16.1	0.000047	1.0951	ug/L
Se	77	2	10	2	16.4	0.000057	3.8016	ug/L
Rh	103	157933	144533	1006	0.7	144533.250622		ug/L
Br	79	3	40	11	27.2	37.500092		ug/L
Cl	35	227	259	24	9.2	32.500881		ug/L
C	13	1127	1260	23	1.8	133.350524		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.516
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV7

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 17:34:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV7.133

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4100	45	1.1	0.026747	5.7031	ug/L
Se	78	6	361	8	2.1	0.002320	4.1988	ug/L
Se	77	2	108	9	7.9	0.000691	4.2804	ug/L
Rh	103	157933	152878	1326	0.9	152878.122519		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	271	13	4.6	44.167873		ug/L
C	13	1127	1317	55	4.2	190.025314		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.799
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB7

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 17:35:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB7.134

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7	4	47.9	-0.000028	-0.0019	ug/L
Se	78	6	5	1	27.1	-0.000008	0.0117	ug/L
Se	77	2	1	0	20.0	-0.000004	0.0047	ug/L
Rh	103	157933	153355	2124	1.4	153355.324663		ug/L
Br	79	3	2	3	173.2	-0.833333		ug/L
Cl	35	227	250	24	9.5	23.333958		ug/L
C	13	1127	1340	31	2.3	213.361981		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	97.102
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-12

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:37:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 131

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-12.135

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	37	4	9.4	0.000176	0.4154	ug/L
Se	78	6	3	1	22.1	-0.000020	-0.1142	ug/L
Se	77	2	1	0	57.3	-0.000008	-0.1771	ug/L
Rh	103	157933	148314	1392	0.9	148314.288858		ug/L
Br	79	3	40	9	21.7	37.500090		ug/L
Cl	35	227	251	26	10.2	24.167317		ug/L
C	13	1127	1266	40	3.2	139.184709		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.910
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP3

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:38:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 132

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP3.136

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	35	4	11.4	0.000160	0.3823	ug/L
Se	78	6	3	1	16.0	-0.000019	-0.0846	ug/L
Se	77	2	1	0	17.3	-0.000007	-0.1083	ug/L
Rh	103	157933	148189	192	0.1	148188.866941		ug/L
Br	79	3	32	6	19.9	29.166723		ug/L
Cl	35	227	257	41	15.8	30.000850		ug/L
C	13	1127	1381	52	3.8	254.201492		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.830
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS3

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:40:25

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 133

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS3.137

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4062	16	0.4	0.027477	58.5848	ug/L
Se	78	6	375	8	2.0	0.002505	45.3254	ug/L
Se	77	2	112	3	2.5	0.000750	46.4320	ug/L
Rh	103	157933	147442	1157	0.8	147441.914830		ug/L
Br	79	3	32	11	35.6	29.166726		ug/L
Cl	35	227	240	45	18.8	13.333742		ug/L
C	13	1127	1323	45	3.4	196.692911		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.357
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD3

Sample Description: 10x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:41:53

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 134

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD3.138

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4076	46	1.1	0.027664	58.9838	ug/L
Se	78	6	380	6	1.6	0.002545	46.0519	ug/L
Se	77	2	124	8	6.6	0.000831	51.4421	ug/L
Rh	103	157933	146943	905	0.6	146943.083240		ug/L
Br	79	3	44	7	16.3	41.666775		ug/L
Cl	35	227	255	11	4.5	28.334081		ug/L
C	13	1127	1318	86	6.5	191.692381		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.042
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-13
Sample Description: 1000x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:43:21
 Diluted To Volume (mL): 10.00
 Aliquot Volume (mL): 0.01
 Autosampler Position: 135

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
 Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-13.139
 Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7	5	67.6	-0.000032	-2.7712	ug/L
Se	78	6	8	2	27.9	0.000009	41.6046	ug/L
Se	77	2	2	0	22.9	-0.000001	21.8407	ug/L
Rh	103	157933	152428	219	0.1	152428.098777		ug/L
Br	79	3	4	5	124.9	1.666668		ug/L
Cl	35	227	237	33	14.1	10.000288		ug/L
C	13	1127	1307	69	5.3	180.023936		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.515
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-14
Sample Description: 1000x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:44:49
Diluted To Volume (mL): 10.00
Aliquot Volume (mL): 0.01
Autosampler Position: 136

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-14.140
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4	3	66.1	-0.000050	-6.4630	ug/L
Se	78	6	5	1	22.7	-0.000010	6.7381	ug/L
Se	77	2	1	0	31.5	-0.000006	-8.1559	ug/L
Rh	103	157933	151380	1161	0.8	151380.016083		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	269	38	14.3	42.501205		ug/L
C	13	1127	1350	72	5.3	223.363616		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.851
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-15

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:46:17

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 137

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-15.141

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4387	78	1.8	0.031144	13.2796	ug/L
Se	78	6	451	18	3.9	0.003167	11.4479	ug/L
Se	77	2	146	5	3.5	0.001024	12.6682	ug/L
Rh	103	157933	140552	1466	1.0	140552.433076		ug/L
Br	79	3	329	54	16.3	326.672731		ug/L
Cl	35	227	268	23	8.6	40.834455		ug/L
C	13	1127	1235	41	3.3	108.347136		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.995
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-16

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:47:45

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 138

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-16.142

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1195	49	4.1	0.008343	3.5633	ug/L
Se	78	6	384	5	1.3	0.002668	9.6511	ug/L
Se	77	2	116	3	2.6	0.000806	9.9835	ug/L
Rh	103	157933	141940	580	0.4	141940.350329		ug/L
Br	79	3	362	11	3.1	359.173865		ug/L
Cl	35	227	261	8	2.9	34.167577		ug/L
C	13	1127	1248	39	3.1	120.848838		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.874
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-17

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:49:13

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 139

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-17.143

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	5283	56	1.1	0.036894	15.7301	ug/L
Se	78	6	468	7	1.4	0.003235	11.6907	ug/L
Se	77	2	134	4	3.2	0.000927	11.4725	ug/L
Rh	103	157933	142894	2002	1.4	142893.574597		ug/L
Br	79	3	378	18	4.6	375.007849		ug/L
Cl	35	227	263	37	14.2	35.834341		ug/L
C	13	1127	1278	38	3.0	151.686451		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.477
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-18

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:50:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 140

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-18.144

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1918	20	1.0	0.013289	5.6711	ug/L
Se	78	6	396	5	1.4	0.002722	9.8479	ug/L
Se	77	2	113	6	5.6	0.000775	9.5952	ug/L
Rh	103	157933	143472	472	0.3	143472.449811		ug/L
Br	79	3	358	28	7.8	355.007057		ug/L
Cl	35	227	275	3	0.9	48.334659		ug/L
C	13	1127	1218	57	4.7	91.678279		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.844
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 17:52:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV8.145

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	782	48	6.2	0.004874	1.0426	ug/L
Se	78	6	83	1	1.5	0.000486	0.9000	ug/L
Se	77	2	24	1	2.2	0.000139	0.8838	ug/L
Rh	103	157933	157860	1709	1.1	157859.723369		ug/L
Br	79	3	6	1	24.7	3.333335		ug/L
Cl	35	227	254	6	2.5	27.500721		ug/L
C	13	1127	1353	55	4.1	225.863909		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.954
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 17:53:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB8.146

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4	1	15.7	-0.000052	-0.0069	ug/L
Se	78	6	5	0	7.9	-0.000004	0.0177	ug/L
Se	77	2	2	1	32.9	-0.000002	0.0197	ug/L
Rh	103	157933	151129	7535	5.0	151128.702781		ug/L
Br	79	3	3	4	114.6	0.833334		ug/L
Cl	35	227	253	30	11.9	25.834039		ug/L
C	13	1127	1372	54	3.9	245.033443		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.692
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-01

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:03:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 141

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-01.147

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	79	9	11.0	0.000492	0.2181	ug/L
Se	78	6	23	3	11.6	0.000128	0.5127	ug/L
Se	77	2	7	1	17.9	0.000040	0.5537	ug/L
Rh	103	157933	138364	718	0.5	138364.188321		ug/L
Br	79	3	27	8	28.6	24.166707		ug/L
Cl	35	227	244	15	6.3	17.500454		ug/L
C	13	1127	1306	76	5.8	179.190519		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.610
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-02

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:05:08

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 142

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-02.148

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	44	9	20.5	0.000244	0.1123	ug/L
Se	78	6	21	3	16.1	0.000111	0.4502	ug/L
Se	77	2	6	2	31.0	0.000032	0.4569	ug/L
Rh	103	157933	138241	1606	1.2	138240.738712		ug/L
Br	79	3	33	18	55.5	30.000069		ug/L
Cl	35	227	269	36	13.5	42.501200		ug/L
C	13	1127	1237	91	7.3	110.014269		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.531
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP4

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:06:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 143

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP4.149

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	48	6	13.5	0.000264	0.1206	ug/L
Se	78	6	22	4	16.6	0.000114	0.4600	ug/L
Se	77	2	6	2	24.1	0.000033	0.4646	ug/L
Rh	103	157933	140249	686	0.5	140248.567168		ug/L
Br	79	3	46	12	25.8	43.333453		ug/L
Cl	35	227	238	4	1.6	11.666958		ug/L
C	13	1127	1281	61	4.8	154.186888		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.803
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS4

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:08:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 144

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS4.150

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7028	119	1.7	0.050506	21.5307	ug/L
Se	78	6	668	29	4.3	0.004764	17.1937	ug/L
Se	77	2	200	6	3.1	0.001426	17.6131	ug/L
Rh	103	157933	138932	529	0.4	138931.906930		ug/L
Br	79	3	31	5	16.9	28.333386		ug/L
Cl	35	227	258	45	17.3	31.667577		ug/L
C	13	1127	1318	102	7.8	190.859041		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.969
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD4

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:09:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 145

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD4.151

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7071	39	0.6	0.050603	21.5717	ug/L
Se	78	6	673	15	2.3	0.004781	17.2545	ug/L
Se	77	2	198	5	2.6	0.001406	17.3608	ug/L
Rh	103	157933	139521	715	0.5	139520.831997		ug/L
Br	79	3	28	9	31.5	25.000044		ug/L
Cl	35	227	247	19	7.6	20.000526		ug/L
C	13	1127	1279	21	1.6	152.519865		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.342
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-03

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:11:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 146

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-03.152

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	144	3	2.1	0.000895	0.3894	ug/L
Se	78	6	30	3	9.4	0.000163	0.6370	ug/L
Se	77	2	15	1	5.0	0.000090	1.1704	ug/L
Rh	103	157933	148046	1085	0.7	148045.771154		ug/L
Br	79	3	84	3	3.4	81.667056		ug/L
Cl	35	227	267	29	10.9	40.001109		ug/L
C	13	1127	1336	55	4.1	209.194777		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.740
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-04

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:12:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 147

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-04.153

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	66	5	7.1	0.000384	0.1719	ug/L
Se	78	6	20	2	9.6	0.000100	0.4095	ug/L
Se	77	2	6	1	9.4	0.000031	0.4356	ug/L
Rh	103	157933	144224	1301	0.9	144224.258899		ug/L
Br	79	3	40	7	16.5	37.500089		ug/L
Cl	35	227	230	24	10.4	3.333430		ug/L
C	13	1127	1278	34	2.6	150.852989		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.320
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-05

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:13:57

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 148

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-05.154

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	22	1	5.2	0.000079	0.0419	ug/L
Se	78	6	20	2	11.6	0.000098	0.4030	ug/L
Se	77	2	5	1	20.1	0.000024	0.3506	ug/L
Rh	103	157933	144125	737	0.5	144125.164637		ug/L
Br	79	3	53	7	12.6	50.000153		ug/L
Cl	35	227	258	22	8.6	30.834165		ug/L
C	13	1127	1305	31	2.4	178.356889		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.257
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV9

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:15:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV9.155

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	772	44	5.7	0.005015	1.0726	ug/L
Se	78	6	76	1	1.1	0.000463	0.8583	ug/L
Se	77	2	23	0	1.7	0.000137	0.8748	ug/L
Rh	103	157933	151592	2541	1.7	151592.021202		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	233	19	8.2	6.666841		ug/L
C	13	1127	1383	52	3.7	256.701868		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.985
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB9

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:16:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB9.156

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4	2	43.3	-0.000050	-0.0065	ug/L
Se	78	6	2	1	29.4	-0.000029	-0.0271	ug/L
Se	77	2	1	1	78.1	-0.000008	-0.0183	ug/L
Rh	103	157933	151296	733	0.5	151296.107514		ug/L
Br	79	3	4	1	34.6	1.666667		ug/L
Cl	35	227	233	23	10.0	6.666847		ug/L
C	13	1127	1288	48	3.7	161.687895		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	95.798
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-06

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:18:26

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 149

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-06.157

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	66	16	23.8	0.000397	0.1774	ug/L
Se	78	6	22	1	5.3	0.000115	0.4634	ug/L
Se	77	2	8	0	4.6	0.000047	0.6425	ug/L
Rh	103	157933	139835	2798	2.0	139835.033313		ug/L
Br	79	3	509	31	6.1	506.680960		ug/L
Cl	35	227	237	16	6.9	10.000257		ug/L
C	13	1127	1310	67	5.1	183.357739		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.541
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP5

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:19:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 150

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP5.158

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	66	9	12.9	0.000403	0.1801	ug/L
Se	78	6	23	3	13.9	0.000129	0.5163	ug/L
Se	77	2	7	0	5.3	0.000040	0.5491	ug/L
Rh	103	157933	137873	2352	1.7	137872.820358		ug/L
Br	79	3	612	13	2.1	609.187250		ug/L
Cl	35	227	281	18	6.3	54.168182		ug/L
C	13	1127	1254	46	3.7	127.516444		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.298
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS5

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:21:22

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 151

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS5.159

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7374	112	1.5	0.052611	22.4275	ug/L
Se	78	6	679	10	1.5	0.004811	17.3626	ug/L
Se	77	2	208	8	4.0	0.001472	18.1804	ug/L
Rh	103	157933	139958	1089	0.8	139958.337779		ug/L
Br	79	3	554	36	6.4	551.683604		ug/L
Cl	35	227	267	10	3.8	40.001081		ug/L
C	13	1127	1302	72	5.5	175.023232		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.619
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD5

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:22:50

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 152

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD5.160

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7631	46	0.6	0.054900	23.4030	ug/L
Se	78	6	702	24	3.4	0.005019	18.1121	ug/L
Se	77	2	213	5	2.4	0.001519	18.7591	ug/L
Rh	103	157933	138809	2005	1.4	138808.510687		ug/L
Br	79	3	553	22	3.9	550.850190		ug/L
Cl	35	227	278	33	11.9	50.834775		ug/L
C	13	1127	1288	5	0.4	161.687811		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.891
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-07

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:24:18

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 153

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-07.161

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1287	45	3.5	0.008768	3.7446	ug/L
Se	78	6	648	7	1.2	0.004407	15.9103	ug/L
Se	77	2	193	16	8.1	0.001313	16.2194	ug/L
Rh	103	157933	145721	4039	2.8	145720.866269		ug/L
Br	79	3	260	16	6.3	257.503727		ug/L
Cl	35	227	246	19	7.9	19.167171		ug/L
C	13	1127	1290	10	0.8	163.354717		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	92.268
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-08

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:25:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 154

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-08.162

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	751	32	4.2	0.005237	2.2400	ug/L
Se	78	6	612	24	4.0	0.004291	15.4914	ug/L
Se	77	2	183	2	1.2	0.001276	15.7665	ug/L
Rh	103	157933	142289	11337	8.0	142288.658631		ug/L
Br	79	3	267	12	4.6	264.170583		ug/L
Cl	35	227	266	38	14.4	39.167773		ug/L
C	13	1127	1276	22	1.8	149.186065		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.094
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-09

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:27:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 155

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-09.163

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	959	24	2.5	0.005946	2.5420	ug/L
Se	78	6	637	26	4.0	0.003963	14.3110	ug/L
Se	77	2	188	3	1.7	0.001170	14.4555	ug/L
Rh	103	157933	159323	5468	3.4	159323.390337		ug/L
Br	79	3	87	19	21.7	84.167092		ug/L
Cl	35	227	278	34	12.4	51.668137		ug/L
C	13	1127	1330	98	7.4	203.360829		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	100.880
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-10

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:28:42

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 156

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-10.164

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	884	34	3.8	0.005528	2.3640	ug/L
Se	78	6	629	11	1.7	0.003947	14.2536	ug/L
Se	77	2	189	3	1.4	0.001184	14.6302	ug/L
Rh	103	157933	157830	922	0.6	157829.972858		ug/L
Br	79	3	74	4	5.1	71.666969		ug/L
Cl	35	227	322	20	6.3	95.002872		ug/L
C	13	1127	1398	61	4.3	270.870739		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	99.935
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-11

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:30:10

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 157

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-11.165

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	225	6	2.7	0.002508	1.0769	ug/L
Se	78	6	264	10	3.7	0.002979	10.7721	ug/L
Se	77	2	162	9	5.6	0.001850	22.8235	ug/L
Rh	103	157933	87282	2472	2.8	87282.219353		ug/L
Br	79	3	23002	266	1.2	22999.900227		ug/L
Cl	35	227	294	20	6.8	67.501941		ug/L
C	13	1127	783	21	2.7	-344.203124		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	55.265
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-12

Sample Description: 2x

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:31:38

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 2.5

Autosampler Position: 158

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-12.166

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	193	36	18.6	0.002298	0.9875	ug/L
Se	78	6	181	6	3.5	0.002181	7.9010	ug/L
Se	77	2	121	3	2.3	0.001471	18.1642	ug/L
Rh	103	157933	81484	1135	1.4	81484.434798		ug/L
Br	79	3	21814	529	2.4	21811.985123		ug/L
Cl	35	227	308	43	13.9	81.669129		ug/L
C	13	1127	763	33	4.3	-364.204801		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	51.594
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVA

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:33:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVA.167

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3503	47	1.3	0.026379	5.6246	ug/L
Se	78	6	310	8	2.6	0.002304	4.1704	ug/L
Se	77	2	93	4	4.4	0.000687	4.2570	ug/L
Rh	103	157933	132402	1896	1.4	132402.329197		ug/L
Br	79	3	375	88	23.6	372.508020		ug/L
Cl	35	227	243	9	3.6	15.833737		ug/L
C	13	1127	1236	64	5.2	109.180672		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.835
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBA

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:34:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBA.168

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	5	4	78.1	-0.000034	-0.0032	ug/L
Se	78	6	3	1	19.3	-0.000013	0.0010	ug/L
Se	77	2	1	1	94.4	-0.000002	0.0191	ug/L
Rh	103	157933	128725	4370	3.4	128724.799342		ug/L
Br	79	3	110	23	20.8	107.500684		ug/L
Cl	35	227	239	6	2.4	12.500314		ug/L
C	13	1127	1242	8	0.6	115.014651		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	81.506
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-01

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:37:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 159

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-01.169

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	747	20	2.7	0.005658	1.2096	ug/L
Se	78	6	7	1	12.5	0.000013	0.0488	ug/L
Se	77	2	3	1	31.1	0.000008	0.0768	ug/L
Rh	103	157933	130414	2843	2.2	130414.058687		ug/L
Br	79	3	111	17	15.0	108.334019		ug/L
Cl	35	227	232	44	19.0	5.000189		ug/L
C	13	1127	1260	70	5.6	133.350685		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	82.576
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-02

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:39:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 160

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-02.170

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	705	39	5.6	0.005158	1.1031	ug/L
Se	78	6	8	2	24.0	0.000016	0.0535	ug/L
Se	77	2	2	0	11.1	0.000005	0.0573	ug/L
Rh	103	157933	134741	1112	0.8	134741.234892		ug/L
Br	79	3	120	9	7.5	117.500794		ug/L
Cl	35	227	232	35	15.1	5.000163		ug/L
C	13	1127	1328	39	2.9	200.860167		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	85.316
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP7

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:40:42

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 201

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP6.171

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	685	23	3.4	0.004938	1.0561	ug/L
Se	78	6	7	1	22.4	0.000008	0.0387	ug/L
Se	77	2	2	0	18.3	0.000003	0.0484	ug/L
Rh	103	157933	136710	684	0.5	136710.278885		ug/L
Br	79	3	92	15	16.0	89.167136		ug/L
Cl	35	227	266	43	16.0	39.167786		ug/L
C	13	1127	1284	85	6.6	157.520816		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.562
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS6

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:42:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS6.172

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4	3	66.1	-0.000064	-0.0094	ug/L
Se	78	6	2	1	30.3	-0.000035	-0.0370	ug/L
Se	77	2	1	1	72.1	-0.000008	-0.0215	ug/L
Rh	103	157933	314990	25914	8.2	314989.974050		ug/L
Br	79	3	34	13	37.5	31.666736		ug/L
Cl	35	227	153	9	6.2	-73.334871		ug/L
C	13	1127	3742	485	13.0	2614.874956		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	199.446
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS7

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:47:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS7.173

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	678	18	2.7	0.004867	1.0410	ug/L
Se	78	6	716	15	2.1	0.005175	9.3365	ug/L
Se	77	2	213	8	3.9	0.001541	9.5107	ug/L
Rh	103	157933	137236	720	0.5	137235.607267		ug/L
Br	79	3	79	14	18.2	76.667018		ug/L
Cl	35	227	251	26	10.2	24.167317		ug/L
C	13	1127	1368	103	7.6	240.866433		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.895
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MSD7

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:48:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 203

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD7.174

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	726	34	4.7	0.005129	1.0968	ug/L
Se	78	6	731	26	3.5	0.005199	9.3802	ug/L
Se	77	2	231	12	5.4	0.001645	10.1522	ug/L
Rh	103	157933	139566	148	0.1	139565.661409		ug/L
Br	79	3	83	9	10.5	80.000377		ug/L
Cl	35	227	223	27	12.3	-3.333396		ug/L
C	13	1127	1408	36	2.6	281.705658		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.370
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:50:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVB.175

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	19388	458	2.4	0.135088	28.7869	ug/L
Se	78	6	1788	26	1.4	0.012429	22.3900	ug/L
Se	77	2	533	14	2.6	0.003707	22.8403	ug/L
Rh	103	157933	143438	3003	2.1	143438.061767		ug/L
Br	79	3	11	1	13.3	8.333339		ug/L
Cl	35	227	253	34	13.6	26.667406		ug/L
C	13	1127	1346	64	4.8	219.196293		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.822
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:51:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBB.176

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	19	1	6.0	0.000060	0.0169	ug/L
Se	78	6	9	3	34.1	0.000022	0.0648	ug/L
Se	77	2	3	1	18.4	0.000008	0.0769	ug/L
Rh	103	157933	142282	4055	2.9	142282.039984		ug/L
Br	79	3	13	4	34.6	10.000009		ug/L
Cl	35	227	265	57	21.6	38.334482		ug/L
C	13	1127	1393	104	7.5	265.870234		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.090
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-03

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:56:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 204

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-03.177

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	243	28	11.7	0.001738	0.3745	ug/L
Se	78	6	7	1	10.5	0.000010	0.0438	ug/L
Se	77	2	3	1	26.6	0.000012	0.1040	ug/L
Rh	103	157933	134069	2392	1.8	134069.067148		ug/L
Br	79	3	131	5	4.0	128.334275		ug/L
Cl	35	227	228	20	8.9	1.666716		ug/L
C	13	1127	1339	56	4.2	212.528606		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	84.890
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-04

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:57:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 205

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-04.178

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	226	17	7.5	0.001590	0.3429	ug/L
Se	78	6	6	0	6.9	0.000005	0.0349	ug/L
Se	77	2	2	0	21.7	0.000003	0.0452	ug/L
Rh	103	157933	135866	786	0.6	135866.102817		ug/L
Br	79	3	182	11	6.2	179.168486		ug/L
Cl	35	227	246	6	2.6	19.167158		ug/L
C	13	1127	1324	78	5.9	197.526518		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.028
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-05

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:59:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 206

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-05.179

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1103	32	2.9	0.007295	1.5585	ug/L
Se	78	6	17	3	19.6	0.000072	0.1555	ug/L
Se	77	2	6	1	9.9	0.000030	0.2150	ug/L
Rh	103	157933	149634	780	0.5	149633.937037		ug/L
Br	79	3	58	9	15.7	55.000184		ug/L
Cl	35	227	261	4	1.5	34.167575		ug/L
C	13	1127	1341	53	4.0	214.195506		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	94.745
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-06

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 19:00:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 207

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-06.180

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1031	5	0.5	0.006888	1.4717	ug/L
Se	78	6	16	3	17.0	0.000067	0.1462	ug/L
Se	77	2	5	1	19.0	0.000020	0.1523	ug/L
Rh	103	157933	148097	3011	2.0	148096.875747		ug/L
Br	79	3	60	23	37.5	57.500216		ug/L
Cl	35	227	264	29	10.9	37.501035		ug/L
C	13	1127	1388	53	3.8	260.869174		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	93.772
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-07

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 19:02:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 208

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-07.181

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	813	28	3.5	0.005896	1.2602	ug/L
Se	78	6	8	1	9.5	0.000016	0.0544	ug/L
Se	77	2	3	1	43.6	0.000006	0.0677	ug/L
Rh	103	157933	136209	791	0.6	136208.672382		ug/L
Br	79	3	64	14	21.5	61.666900		ug/L
Cl	35	227	262	37	14.3	35.000984		ug/L
C	13	1127	1264	58	4.6	137.517873		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.245
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-08

Sample Description:

Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 19:03:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 209

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-08.182

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	766	25	3.3	0.005391	1.1528	ug/L
Se	78	6	8	1	16.9	0.000014	0.0496	ug/L
Se	77	2	3	1	20.1	0.000006	0.0680	ug/L
Rh	103	157933	140168	433	0.3	140168.164512		ug/L
Br	79	3	72	6	8.8	69.166950		ug/L
Cl	35	227	243	5	2.1	16.667091		ug/L
C	13	1127	1303	58	4.4	176.690072		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.752
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVC

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:05:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVC.183

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	4022	56	1.4	0.027009	5.7588	ug/L
Se	78	6	354	10	2.9	0.002340	4.2362	ug/L
Se	77	2	109	6	5.4	0.000720	4.4619	ug/L
Rh	103	157933	148531	2551	1.7	148531.285690		ug/L
Br	79	3	6	4	65.5	3.333335		ug/L
Cl	35	227	240	3	1.0	13.333668		ug/L
C	13	1127	1353	3	0.2	225.863798		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	94.047
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBC

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:06:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBC.184

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7	4	62.3	-0.000028	-0.0018	ug/L
Se	78	6	3	1	42.5	-0.000022	-0.0148	ug/L
Se	77	2	1	0	21.7	-0.000008	-0.0171	ug/L
Rh	103	157933	144883	1142	0.8	144882.928096		ug/L
Br	79	3	8	5	66.7	5.000003		ug/L
Cl	35	227	267	64	24.1	40.001229		ug/L
C	13	1127	1356	79	5.9	229.197859		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.737
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-01

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:08:38

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 210

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-01.185

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	29	9	31.7	0.000126	1.5427	ug/L
Se	78	6	234	9	3.8	0.001562	141.7576	ug/L
Se	77	2	72	2	2.2	0.000483	150.2172	ug/L
Rh	103	157933	145993	2164	1.5	145993.098941		ug/L
Br	79	3	2354	163	6.9	2351.972499		ug/L
Cl	35	227	297	30	10.2	70.002040		ug/L
C	13	1127	1245	13	1.0	118.348444		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	92.440
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121691-DUP1

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:10:06

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 211

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121691-DUP1.186

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	28	6	21.8	0.000105	1.3267	ug/L
Se	78	6	257	5	1.9	0.001643	149.1069	ug/L
Se	77	2	75	8	10.5	0.000479	148.9478	ug/L
Rh	103	157933	152555	913	0.6	152555.232870		ug/L
Br	79	3	2477	35	1.4	2474.504120		ug/L
Cl	35	227	308	28	8.9	80.835728		ug/L
C	13	1127	1313	6	0.4	186.691389		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.595
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121691-MS1

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:11:35

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 212

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121691-MS1.187

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	27	3	11.8	0.000102	1.2952	ug/L
Se	78	6	647	4	0.7	0.004183	377.6224	ug/L
Se	77	2	193	3	1.3	0.001249	385.7232	ug/L
Rh	103	157933	153265	718	0.5	153264.502651		ug/L
Br	79	3	2408	127	5.3	2405.319415		ug/L
Cl	35	227	326	9	2.7	99.169675		ug/L
C	13	1127	1289	39	3.0	162.521317		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	97.044
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121691-MSD1

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:13:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 213

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121691-MSD1.188

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	30	7	23.8	0.000124	1.5252	ug/L
Se	78	6	632	17	2.7	0.004119	371.7977	ug/L
Se	77	2	189	5	2.7	0.001234	381.0576	ug/L
Rh	103	157933	151928	2502	1.6	151928.393276		ug/L
Br	79	3	2428	48	2.0	2425.324230		ug/L
Cl	35	227	346	16	4.6	119.170421		ug/L
C	13	1127	1293	106	8.2	165.855484		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.198
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-02

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:14:31

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 214

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-02.189

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	29	4	13.8	0.000125	1.5365	ug/L
Se	78	6	256	5	2.1	0.001718	155.8531	ug/L
Se	77	2	77	3	4.5	0.000516	160.1178	ug/L
Rh	103	157933	145902	8367	5.7	145902.331808		ug/L
Br	79	3	2678	118	4.4	2675.394865		ug/L
Cl	35	227	358	14	4.0	131.670903		ug/L
C	13	1127	1191	67	5.6	64.174677		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	92.383
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-03

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:15:59

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 215

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-03.190

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	29	1	3.9	0.000117	1.4547	ug/L
Se	78	6	267	15	5.5	0.001718	155.8353	ug/L
Se	77	2	79	2	2.9	0.000511	158.8068	ug/L
Rh	103	157933	151727	682	0.4	151726.523021		ug/L
Br	79	3	2576	92	3.6	2573.698615		ug/L
Cl	35	227	336	55	16.4	109.170147		ug/L
C	13	1127	1224	103	8.4	97.512664		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.070
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-04
Sample Description: 50x
Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:17:27
 Diluted To Volume (mL): 5.00
 Aliquot Volume (mL): 0.1
 Autosampler Position: 216

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
 Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-04.191
 Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	34	2	4.4	0.000150	1.8071	ug/L
Se	78	6	256	6	2.4	0.001648	149.4906	ug/L
Se	77	2	72	2	3.3	0.000465	144.5564	ug/L
Rh	103	157933	151626	1317	0.9	151625.741035		ug/L
Br	79	3	2512	125	5.0	2509.514255		ug/L
Cl	35	227	327	30	9.2	100.003069		ug/L
C	13	1127	1257	88	7.0	130.016997		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.006
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-05

Sample Description: 50x

Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:18:55

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 217

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-05.192

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	59	11	18.1	0.000317	3.5831	ug/L
Se	78	6	448	10	2.3	0.002959	267.4935	ug/L
Se	77	2	135	4	2.8	0.000893	276.1118	ug/L
Rh	103	157933	149332	837	0.6	149332.375526		ug/L
Br	79	3	2542	9	0.4	2539.522023		ug/L
Cl	35	227	319	14	4.3	92.502776		ug/L
C	13	1127	1253	86	6.9	125.849740		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	94.554
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVD

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:20:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVD.193

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	20991	287	1.4	0.134605	28.6839	ug/L
Se	78	6	1868	23	1.3	0.011946	21.5194	ug/L
Se	77	2	567	16	2.8	0.003624	22.3348	ug/L
Rh	103	157933	155896	4244	2.7	155895.975541		ug/L
Br	79	3	18	4	24.7	15.000017		ug/L
Cl	35	227	308	30	9.9	80.835734		ug/L
C	13	1127	1370	28	2.1	243.366448		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	98.710
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBD

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:21:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBD.194

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	16	3	21.7	0.000029	0.0103	ug/L
Se	78	6	8	2	20.6	0.000011	0.0457	ug/L
Se	77	2	3	1	21.6	0.000007	0.0727	ug/L
Rh	103	157933	151787	3973	2.6	151787.238485		ug/L
Br	79	3	13	9	69.3	10.000011		ug/L
Cl	35	227	272	23	8.3	45.001244		ug/L
C	13	1127	1378	94	6.8	251.701333		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	96.109
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BLK1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:30:50

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 218

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-BLK1.195

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	7	2	22.9	-0.000029	-0.1004	ug/L
Se	78	6	3	1	25.5	-0.000021	-0.5876	ug/L
Se	77	2	1	1	120.2	-0.000007	-0.6417	ug/L
Rh	103	157933	140933	1344	1.0	140933.248730		ug/L
Br	79	3	29	5	17.8	26.666714		ug/L
Cl	35	227	301	21	7.0	74.168827		ug/L
C	13	1127	1267	61	4.8	140.018235		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.236
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BLK2

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:32:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 219

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-BLK2.196

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2	1	49.5	-0.000059	-0.4263	ug/L
Se	78	6	2	1	67.0	-0.000028	-1.2674	ug/L
Se	77	2	1	0	65.5	-0.000008	-0.9925	ug/L
Rh	103	157933	140560	3682	2.6	140560.464522		ug/L
Br	79	3	69	12	17.1	66.666934		ug/L
Cl	35	227	332	34	10.2	105.003259		ug/L
C	13	1127	1251	65	5.2	124.182728		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.000
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BLK3

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:33:47

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 220

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-BLK3.197

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3	3	75.5	-0.000052	-0.3459	ug/L
Se	78	6	2	0	24.3	-0.000028	-1.2317	ug/L
Se	77	2	0	1	173.2	-0.000010	-1.5086	ug/L
Rh	103	157933	135789	3021	2.2	135789.441968		ug/L
Br	79	3	35	3	7.1	32.500067		ug/L
Cl	35	227	339	51	15.1	112.503589		ug/L
C	13	1127	1239	39	3.1	112.514363		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	85.979
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BLK4

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:35:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 221

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-BLK4.198

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2	1	69.3	-0.000064	-0.4754	ug/L
Se	78	6	2	1	26.3	-0.000022	-0.7527	ug/L
Se	77	2	1	0	50.0	-0.000009	-1.1601	ug/L
Rh	103	157933	137713	2204	1.6	137712.899515		ug/L
Br	79	3	24	15	62.4	21.666707		ug/L
Cl	35	227	308	10	3.3	81.669066		ug/L
C	13	1127	1222	114	9.3	95.012414		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.197
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BS1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:36:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 222

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-BS1.199

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2004	15	0.8	0.014247	151.9833	ug/L
Se	78	6	148	5	3.5	0.001015	92.5385	ug/L
Se	77	2	45	3	5.8	0.000308	96.1214	ug/L
Rh	103	157933	139930	633	0.5	139929.538066		ug/L
Br	79	3	15	8	50.0	12.500014		ug/L
Cl	35	227	314	16	5.2	87.502605		ug/L
C	13	1127	1290	44	3.4	163.354783		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.601
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-SRM1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:38:13

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 223

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-SRM1.200

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	764	14	1.9	0.005312	56.7902	ug/L
Se	78	6	18	1	5.8	0.000084	8.8274	ug/L
Se	77	2	8	1	15.7	0.000043	14.7123	ug/L
Rh	103	157933	141831	1122	0.8	141831.199575		ug/L
Br	79	3	21	1	6.9	18.333357		ug/L
Cl	35	227	298	5	1.7	70.835368		ug/L
C	13	1127	1269	29	2.3	142.518478		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.805
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-SRM2

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:39:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 224

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-SRM2.201

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	132108	3046	2.3	0.940063	10015.0050	ug/L
Se	78	6	11	2	16.0	0.000038	4.6541	ug/L
Se	77	2	6	3	40.6	0.000031	11.1292	ug/L
Rh	103	157933	140544	4253	3.0	140543.704206		ug/L
Br	79	3	37	8	21.9	34.166742		ug/L
Cl	35	227	316	25	8.0	89.169343		ug/L
C	13	1127	1115	49	4.4	-11.668351		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.990
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVE

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:41:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVE.202

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	17646	241	1.4	0.132960	28.3334	ug/L
Se	78	6	1571	31	2.0	0.011803	21.2636	ug/L
Se	77	2	478	13	2.8	0.003593	22.1400	ug/L
Rh	103	157933	132707	4487	3.4	132707.321447		ug/L
Br	79	3	3	1	43.3	0.833333		ug/L
Cl	35	227	263	5	1.9	35.834290		ug/L
C	13	1127	1221	117	9.6	94.178998		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	84.028
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBE

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:42:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBE.203

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	82	37	45.6	0.000548	0.1209	ug/L
Se	78	6	9	0	1.6	0.000025	0.0704	ug/L
Se	77	2	2	1	22.3	0.000006	0.0637	ug/L
Rh	103	157933	131796	2405	1.8	131796.195125		ug/L
Br	79	3	7	1	21.7	4.166669		ug/L
Cl	35	227	248	20	8.1	21.667240		ug/L
C	13	1127	1192	35	3.0	65.008003		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.451
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-08RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:44:12

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 225

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-08RE1.204

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1012	12	1.2	0.007548	80.6124	ug/L
Se	78	6	18	0	0.2	0.000094	9.6996	ug/L
Se	77	2	8	2	22.1	0.000051	17.0888	ug/L
Rh	103	157933	132737	1928	1.5	132737.163570		ug/L
Br	79	3	15	5	33.3	12.500013		ug/L
Cl	35	227	301	22	7.2	74.168828		ug/L
C	13	1127	1156	58	5.0	29.170119		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	84.047
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-DUP1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:45:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 226

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-DUP1.205

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1095	47	4.3	0.007818	83.4944	ug/L
Se	78	6	17	1	7.9	0.000081	8.5170	ug/L
Se	77	2	10	0	4.4	0.000058	19.3689	ug/L
Rh	103	157933	138671	1060	0.8	138671.337203		ug/L
Br	79	3	26	21	81.2	23.333386		ug/L
Cl	35	227	302	42	13.9	75.002236		ug/L
C	13	1127	1195	87	7.2	68.342002		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.804
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MS1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:47:09

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 227

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MS1.206

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3042	60	2.0	0.021616	230.4871	ug/L
Se	78	6	155	2	1.2	0.001067	97.2396	ug/L
Se	77	2	53	2	4.1	0.000362	112.9230	ug/L
Rh	103	157933	140225	1017	0.7	140224.893032		ug/L
Br	79	3	27	8	30.1	24.166708		ug/L
Cl	35	227	322	28	8.7	95.002886		ug/L
C	13	1127	1159	95	8.2	32.504082		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.788
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MSD1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:48:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 228

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MSD1.207

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2907	65	2.2	0.020806	221.8548	ug/L
Se	78	6	148	6	3.9	0.001026	93.5543	ug/L
Se	77	2	44	4	8.5	0.000302	94.2664	ug/L
Rh	103	157933	139209	509	0.4	139209.436897		ug/L
Br	79	3	21	3	13.9	18.333357		ug/L
Cl	35	227	316	29	9.1	89.169350		ug/L
C	13	1127	1158	34	2.9	30.836917		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.145
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-09RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:50:06

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 229

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-09RE1.208

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	741	18	2.4	0.005220	55.8103	ug/L
Se	78	6	22	1	4.6	0.000116	11.7319	ug/L
Se	77	2	11	2	19.4	0.000068	22.4659	ug/L
Rh	103	157933	139929	796	0.6	139928.700334		ug/L
Br	79	3	29	7	24.7	26.666715		ug/L
Cl	35	227	297	30	10.1	70.002040		ug/L
C	13	1127	1188	58	4.9	60.840869		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.600
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-10RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:51:34

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 230

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-10RE1.209

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	857	22	2.5	0.005993	64.0471	ug/L
Se	78	6	13	4	27.4	0.000053	6.0405	ug/L
Se	77	2	8	2	29.8	0.000045	15.1678	ug/L
Rh	103	157933	141183	750	0.5	141182.866037		ug/L
Br	79	3	15	9	60.1	12.500015		ug/L
Cl	35	227	328	10	3.2	101.669766		ug/L
C	13	1127	1166	19	1.6	39.171286		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.394
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-11RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:53:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 231

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-11RE1.210

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	891	24	2.6	0.006271	67.0075	ug/L
Se	78	6	15	2	11.9	0.000066	7.2091	ug/L
Se	77	2	11	1	8.6	0.000063	20.7536	ug/L
Rh	103	157933	140382	1361	1.0	140382.324225		ug/L
Br	79	3	23	4	19.2	20.000028		ug/L
Cl	35	227	273	33	12.1	46.667982		ug/L
C	13	1127	1201	43	3.5	74.175896		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.887
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-12RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:54:31

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 232

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-12RE1.211

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	740	15	2.1	0.005321	56.8878	ug/L
Se	78	6	22	2	7.4	0.000122	12.2309	ug/L
Se	77	2	11	2	17.2	0.000068	22.4312	ug/L
Rh	103	157933	137143	1263	0.9	137142.591225		ug/L
Br	79	3	33	19	58.3	30.833408		ug/L
Cl	35	227	309	17	5.4	82.502434		ug/L
C	13	1127	1153	78	6.7	26.669900		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.836
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-13RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:56:00

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 233

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-13RE1.212

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	851	25	2.9	0.006100	65.1896	ug/L
Se	78	6	14	2	13.1	0.000058	6.5171	ug/L
Se	77	2	9	2	17.4	0.000056	18.5412	ug/L
Rh	103	157933	137895	2485	1.8	137894.840216		ug/L
Br	79	3	28	16	56.8	25.000050		ug/L
Cl	35	227	318	26	8.1	91.669431		ug/L
C	13	1127	1164	68	5.9	37.504564		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.312
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-14RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:57:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 234

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-14RE1.213

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	782	11	1.4	0.005541	59.2312	ug/L
Se	78	6	14	0	3.1	0.000062	6.8618	ug/L
Se	77	2	8	1	6.4	0.000046	15.6015	ug/L
Rh	103	157933	139191	1112	0.8	139190.857358		ug/L
Br	79	3	19	4	19.9	16.666687		ug/L
Cl	35	227	319	50	15.7	92.502861		ug/L
C	13	1127	1150	25	2.1	23.335945		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.133
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVF

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:58:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVF.214

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	18254	319	1.7	0.134458	28.6525	ug/L
Se	78	6	1637	25	1.5	0.012025	21.6633	ug/L
Se	77	2	485	14	2.9	0.003565	21.9671	ug/L
Rh	103	157933	135685	1554	1.1	135685.161463		ug/L
Br	79	3	8	4	45.8	5.833337		ug/L
Cl	35	227	268	13	4.7	40.834441		ug/L
C	13	1127	1196	88	7.4	69.175455		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	85.913
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBF

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:00:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBF.215

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	22	3	14.1	0.000079	0.0209	ug/L
Se	78	6	10	4	38.4	0.000030	0.0788	ug/L
Se	77	2	2	1	48.3	0.000005	0.0570	ug/L
Rh	103	157933	139976	1818	1.3	139976.185359		ug/L
Br	79	3	3	4	114.6	0.833334		ug/L
Cl	35	227	237	31	13.1	10.000282		ug/L
C	13	1127	1153	43	3.8	25.836309		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.630
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-15RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:02:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 235

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-15RE1.216

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	830	34	4.1	0.005837	62.3875	ug/L
Se	78	6	21	2	9.5	0.000107	10.8752	ug/L
Se	77	2	11	1	11.9	0.000063	20.7609	ug/L
Rh	103	157933	140356	2054	1.5	140356.176509		ug/L
Br	79	3	22	6	29.0	19.166693		ug/L
Cl	35	227	293	13	4.3	65.835211		ug/L
C	13	1127	1183	102	8.6	55.840473		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.871
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-16RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:03:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 236

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-16RE1.217

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	985	20	2.1	0.007015	74.9430	ug/L
Se	78	6	18	1	6.4	0.000092	9.5828	ug/L
Se	77	2	10	2	17.0	0.000057	18.9126	ug/L
Rh	103	157933	139214	7352	5.3	139213.933147		ug/L
Br	79	3	17	6	37.7	14.166683		ug/L
Cl	35	227	303	17	5.5	76.668904		ug/L
C	13	1127	1213	62	5.1	85.844184		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.148
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-17RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:04:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 237

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-17RE1.218

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	577	24	4.2	0.004023	43.0670	ug/L
Se	78	6	15	1	9.0	0.000064	6.9973	ug/L
Se	77	2	7	3	41.4	0.000039	13.5792	ug/L
Rh	103	157933	140840	2561	1.8	140840.328771		ug/L
Br	79	3	15	4	28.9	12.500012		ug/L
Cl	35	227	314	41	13.1	87.502657		ug/L
C	13	1127	1168	17	1.4	41.671605		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.177
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-18RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:06:26

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 238

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-18RE1.219

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	989	43	4.3	0.007028	75.0749	ug/L
Se	78	6	19	4	21.7	0.000094	9.7122	ug/L
Se	77	2	10	1	8.1	0.000059	19.6527	ug/L
Rh	103	157933	139167	2060	1.5	139167.274850		ug/L
Br	79	3	14	5	36.7	11.666678		ug/L
Cl	35	227	312	30	9.6	85.002542		ug/L
C	13	1127	1168	38	3.2	40.838206		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.118
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-DUP2

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:07:55

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 239

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-DUP2.220

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1041	42	4.0	0.007471	79.7928	ug/L
Se	78	6	21	3	15.7	0.000111	11.2114	ug/L
Se	77	2	12	2	17.7	0.000076	24.8686	ug/L
Rh	103	157933	137998	1026	0.7	137997.869087		ug/L
Br	79	3	13	4	28.6	10.833343		ug/L
Cl	35	227	312	6	2.0	85.002510		ug/L
C	13	1127	1097	115	10.4	-30.003520		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.378
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MS2

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:09:23

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 240

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MS2.221

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2945	92	3.1	0.021375	227.9226	ug/L
Se	78	6	160	6	3.8	0.001127	102.6177	ug/L
Se	77	2	53	2	3.4	0.000371	115.5693	ug/L
Rh	103	157933	137317	1405	1.0	137316.872785		ug/L
Br	79	3	16	3	18.2	13.333347		ug/L
Cl	35	227	310	27	8.7	83.335812		ug/L
C	13	1127	1168	42	3.6	41.671659		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.946
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MSD2

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:10:51

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 241

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MSD2.222

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	2960	66	2.2	0.021221	226.2842	ug/L
Se	78	6	153	4	2.5	0.001057	96.3891	ug/L
Se	77	2	52	4	7.9	0.000364	113.4461	ug/L
Rh	103	157933	138996	967	0.7	138996.235942		ug/L
Br	79	3	8	4	57.7	5.000003		ug/L
Cl	35	227	296	28	9.5	69.168675		ug/L
C	13	1127	1159	34	3.0	32.503798		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.010
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-19RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:12:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 242

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-19RE1.223

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	718	12	1.6	0.005003	53.5086	ug/L
Se	78	6	17	0	0.9	0.000076	8.1418	ug/L
Se	77	2	7	1	8.5	0.000040	13.8742	ug/L
Rh	103	157933	141379	1266	0.9	141379.253450		ug/L
Br	79	3	11	1	13.3	8.333339		ug/L
Cl	35	227	307	38	12.3	80.002391		ug/L
C	13	1127	1161	56	4.9	34.170750		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.519
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-20RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:13:48

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 243

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-20RE1.224

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	738	4	0.6	0.005191	55.5061	ug/L
Se	78	6	16	1	3.7	0.000073	7.8492	ug/L
Se	77	2	9	2	23.1	0.000050	16.7572	ug/L
Rh	103	157933	140123	322	0.2	140123.311318		ug/L
Br	79	3	14	4	27.0	11.666678		ug/L
Cl	35	227	314	20	6.4	87.502610		ug/L
C	13	1127	1198	30	2.5	70.842090		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.723
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-21RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:15:17

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 244

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-21RE1.225

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	660	31	4.7	0.004643	49.6712	ug/L
Se	78	6	12	1	4.5	0.000042	5.0496	ug/L
Se	77	2	7	2	27.9	0.000038	13.1126	ug/L
Rh	103	157933	139950	751	0.5	139949.853080		ug/L
Br	79	3	13	3	20.0	10.000008		ug/L
Cl	35	227	318	14	4.5	91.669414		ug/L
C	13	1127	1220	35	2.8	93.345093		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.614
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVG

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:16:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVG.226

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	18528	271	1.5	0.133152	28.3744	ug/L
Se	78	6	1648	45	2.7	0.011808	21.2714	ug/L
Se	77	2	502	12	2.3	0.003595	22.1540	ug/L
Rh	103	157933	139067	1234	0.9	139067.331912		ug/L
Br	79	3	2	1	86.6	-0.833334		ug/L
Cl	35	227	228	15	6.4	1.666708		ug/L
C	13	1127	1157	65	5.7	30.003593		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	88.055
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBG

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:18:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBG.227

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	22	8	34.8	0.000085	0.0222	ug/L
Se	78	6	8	1	9.2	0.000019	0.0592	ug/L
Se	77	2	3	1	30.0	0.000009	0.0877	ug/L
Rh	103	157933	138684	2101	1.5	138684.148250		ug/L
Br	79	3	3	3	100.0	-0.000000		ug/L
Cl	35	227	269	18	6.8	42.501164		ug/L
C	13	1127	1148	54	4.7	20.835715		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.812
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-22RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:19:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 245

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-22RE1.228

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	808	19	2.3	0.005813	62.1366	ug/L
Se	78	6	19	3	14.0	0.000096	9.8658	ug/L
Se	77	2	10	2	22.2	0.000061	20.1571	ug/L
Rh	103	157933	137214	717	0.5	137213.612142		ug/L
Br	79	3	14	5	36.7	11.666678		ug/L
Cl	35	227	325	13	4.0	98.336315		ug/L
C	13	1127	1121	43	3.8	-5.834319		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.881
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-23RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:21:17

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 246

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-23RE1.229

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	481	11	2.3	0.003321	35.5819	ug/L
Se	78	6	13	2	15.2	0.000048	5.5638	ug/L
Se	77	2	5	1	19.5	0.000026	9.3236	ug/L
Rh	103	157933	141515	210	0.1	141514.612742		ug/L
Br	79	3	12	9	81.1	9.166677		ug/L
Cl	35	227	278	29	10.3	51.668124		ug/L
C	13	1127	1198	35	3.0	70.842103		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	89.604
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-24RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:22:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 247

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-24RE1.230

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	560	16	2.8	0.003818	40.8746	ug/L
Se	78	6	16	1	8.1	0.000070	7.5572	ug/L
Se	77	2	8	1	9.8	0.000045	15.2122	ug/L
Rh	103	157933	143820	1330	0.9	143819.592729		ug/L
Br	79	3	14	6	44.4	11.666679		ug/L
Cl	35	227	287	21	7.4	60.001703		ug/L
C	13	1127	1200	31	2.6	73.342422		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	91.064
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-25RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:24:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 248

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-25RE1.231

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	548	21	3.7	0.003766	40.3207	ug/L
Se	78	6	12	2	16.3	0.000046	5.3839	ug/L
Se	77	2	7	1	11.6	0.000036	12.6372	ug/L
Rh	103	157933	142777	1176	0.8	142776.665149		ug/L
Br	79	3	16	6	39.7	13.333348		ug/L
Cl	35	227	303	11	3.6	75.835537		ug/L
C	13	1127	1159	13	1.1	32.503760		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.403
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-26RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:25:43

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 249

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-26RE1.232

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1422	37	2.6	0.009927	105.9564	ug/L
Se	78	6	14	1	7.8	0.000059	6.5908	ug/L
Se	77	2	8	2	26.5	0.000041	13.9897	ug/L
Rh	103	157933	142148	1445	1.0	142147.783302		ug/L
Br	79	3	13	3	21.7	10.833343		ug/L
Cl	35	227	316	12	3.9	89.169325		ug/L
C	13	1127	1158	60	5.2	31.670447		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	90.005
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233038-13RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:27:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 250

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233038-13RE1.233

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1867	36	1.9	0.013410	143.0627	ug/L
Se	78	6	11	3	26.9	0.000041	4.9210	ug/L
Se	77	2	6	1	17.6	0.000034	11.9942	ug/L
Rh	103	157933	138435	632	0.5	138435.253834		ug/L
Br	79	3	18	4	24.7	15.000017		ug/L
Cl	35	227	307	30	9.8	80.002372		ug/L
C	13	1127	1203	39	3.2	76.676216		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.655
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-DUP3

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:28:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 251

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-DUP3.234

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1841	10	0.6	0.013394	142.8961	ug/L
Se	78	6	11	1	9.3	0.000037	4.6337	ug/L
Se	77	2	6	1	8.8	0.000031	11.0483	ug/L
Rh	103	157933	136687	133	0.1	136687.422887		ug/L
Br	79	3	18	4	24.7	15.000017		ug/L
Cl	35	227	309	34	11.0	82.502466		ug/L
C	13	1127	1251	74	6.0	124.182776		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	86.548
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MS3

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:30:08

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 252

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MS3.235

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3261	46	1.4	0.023450	250.0246	ug/L
Se	78	6	145	2	1.5	0.001003	91.5166	ug/L
Se	77	2	48	6	12.1	0.000332	103.5443	ug/L
Rh	103	157933	138621	324	0.2	138621.380731		ug/L
Br	79	3	11	5	48.0	8.333340		ug/L
Cl	35	227	293	8	2.7	66.668568		ug/L
C	13	1127	1114	75	6.7	-12.501667		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.772
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MSD3

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:31:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 253

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MSD3.236

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	3330	93	2.8	0.024075	256.6835	ug/L
Se	78	6	150	1	0.5	0.001047	95.4921	ug/L
Se	77	2	47	5	10.1	0.000329	102.8182	ug/L
Rh	103	157933	137890	511	0.4	137890.394924		ug/L
Br	79	3	14	3	20.4	11.666677		ug/L
Cl	35	227	298	9	3.2	71.668732		ug/L
C	13	1127	1156	38	3.2	29.170048		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	87.310
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233038-14RE1

Sample Description: 50x

Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:33:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 254

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233038-14RE1.237

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	1823	63	3.5	0.013552	144.5834	ug/L
Se	78	6	10	1	5.3	0.000031	4.0791	ug/L
Se	77	2	6	1	22.1	0.000030	10.5787	ug/L
Rh	103	157933	133724	588	0.4	133723.845344		ug/L
Br	79	3	15	8	50.0	12.500014		ug/L
Cl	35	227	304	13	4.2	77.502261		ug/L
C	13	1127	1179	37	3.2	52.506378		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	84.671
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVH

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:34:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVH.238

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	17426	215	1.2	0.132365	28.2066	ug/L
Se	78	6	1564	48	3.1	0.011846	21.3397	ug/L
Se	77	2	475	4	0.8	0.003596	22.1586	ug/L
Rh	103	157933	131594	2965	2.3	131594.242457		ug/L
Br	79	3	6	3	49.5	3.333335		ug/L
Cl	35	227	239	26	10.7	12.500336		ug/L
C	13	1127	1250	35	2.8	123.349168		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.323
Br	79	
Cl	35	
C	13	

Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBH

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:36:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBH.239

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
AsO	91	12	22	6	28.4	0.000091	0.0234	ug/L
Se	78	6	9	1	15.5	0.000027	0.0747	ug/L
Se	77	2	2	1	22.2	0.000005	0.0590	ug/L
Rh	103	157933	132254	2477	1.9	132253.612433		ug/L
Br	79	3	8	4	57.7	5.000003		ug/L
Cl	35	227	247	18	7.1	20.000524		ug/L
C	13	1127	1213	43	3.5	86.677556		ug/L

Int Std % Recovery

Analyte	Mass	Int Std % Recovery
AsO	91	
Se	78	
Se	77	
Rh	103	83.740
Br	79	
Cl	35	
C	13	

Batch:	B121637, 1638	Analyte:	%TS	Date:	9/10/12	MDL:			0.06
Analyst:	CCE	Matrix:	seeds			MRL:			0.20
NOTE: To simplify and ensure correct upload of data to the LIMS, always order your samples in this spreadsheet from lowest WO/sample ID # to highest WO/sample ID #, BLKs, and finally DUPs.									
Work Order #	Dish ID	Tare Wt. (g)	Gross Wet Wt. (g)	Gross Dry Wt. (g)	Net Wet Wt. (g)	Net Dry Wt. (g)	Dry %	Comments	
1233038-13		0.978	7.016	5.009	6.038	4.031	66.76		
1233038-14		0.975	5.554	3.403	4.579	2.428	53.02		
1233048-08		1.054	6.056	4.609	5.002	3.555	71.07		
1233048-09		1.062	6.139	4.036	5.077	2.974	58.58		
1233048-10		1.012	6.228	4.387	5.216	3.375	64.70		
1233048-11		1.028	5.638	4.305	4.610	3.277	71.08		
1233048-12		1.023	6.176	4.194	5.153	3.171	61.54		
1233048-13		1.017	6.914	4.914	5.897	3.897	66.08		
1233048-14		1.003	7.297	5.138	6.294	4.135	65.70		
1233048-15		0.990	5.331	3.557	4.341	2.567	59.13		
1233048-16		0.979	7.764	5.632	6.785	4.653	68.58		
1233048-17		0.993	5.436	3.784	4.443	2.791	62.82		
1233048-18		1.043	4.648	3.619	3.605	2.576	71.46		
1233048-19		1.029	6.520	5.069	5.491	4.040	73.57		
1233048-20		1.025	8.112	5.982	7.087	4.957	69.94		
1233048-21		1.010	5.135	3.543	4.125	2.533	61.41		
1233048-22		1.010	5.347	3.871	4.337	2.861	65.97		
1233048-23		1.024	3.055	1.961	2.031	0.937	46.13		
1233048-24		1.026	6.223	4.792	5.197	3.766	72.46		
1233048-25		1.009	5.063	2.930	4.054	1.921	47.39		
1233048-26		0.976	5.609	3.239	4.633	2.263	48.85		
BLK1		0.988		0.988		0.000	0.00	0.00	= MB Avg
BLK2		0.993		0.993		0.000	0.00	0.00	= MB StDev
B121638 DUP1		1.000	7.218	4.798	6.218	3.798	61.08	9%	
B121637 DUP1		1.004	7.038	5.015	6.034	4.011	66.47	1%	
B121637 DUP2		0.995	5.594	3.373	4.599	2.378	51.71	6%	
								5.04	Rep Wt.

Dry Weight (% Solids) Bench Sheet (BR-1501 Rev 005)

Batch #: B121637, 1638

Analyst: CUF

Date: 9/7/12

Page 1 of 2

Sample ID#	Dish # (if diff. from Sample ID)	Tare Wt. (g)	Gross Wet Wt. (g)	Initial Gross Dry Wt. (g)	Verification Gross Dry Wt. #1* (g)	Verification Gross Dry Wt. #2 (g)
1233038-13		0.978	7.016	5.009		
└ -14		0.975	5.554	3.403		
* B121638 DUPI		1.000	7.218	4.798		
1233048-08		1.054	6.056	4.609		
└ -09		1.062	6.139	4.036		
└ -10		1.012	6.228	4.387		
└ -11		1.028	5.638	4.305		
* B121637 DUPI		1.004	7.038	5.015		
1233048-12		1.023	6.176	4.194		
└ -13		1.017	6.914	4.914		
└ -14		1.003	7.297	5.138		
└ -15		0.990	5.331	3.557		
└ -16		0.979	7.764	5.632		
└ -17		0.993	5.436	3.784		
└ -18		1.043	4.648	3.619		
└ -19		1.029	6.520	5.069		
└ -20		1.025	8.112	5.982		
└ -21		1.010	5.135	3.543		
└ -22		1.010	5.347	3.871		
└ -23		1.024	3.055	1.961		
└ -24		1.026	6.223	4.792		
└ -25		1.009	5.063	2.930		
└ -26		0.976	5.609	3.239		
B121637 DUPI2		0.995	5.594	3.373		

* Verification dry weight (net) must be within 4% of or < 0.5 mg less than the previous dry weight measurement; whichever is stricter.

Balance ID: BL-03, BL-06

Oven ID: OV-06

Thermometer ID: 010398

- 1) Time / Date / Temp** in: 1600 9/7/12
- 2) Time / Date / Temp** in: _____
- 3) Time / Date / Temp** in: _____

- Time / Date / Temp** out: 1305 9/10/12
- Time / Date / Temp** out: _____
- Time / Date / Temp** out: _____ (if necessary)

Reweight Analyst: CUF

Verification Analyst: _____ (if necessary)

** Both the measured and the corrected temperatures must be recorded. Record the measured temperature first and then the corrected temperature.

*: source: 1233048-13

BL-06 used to weigh initial gross dry wt.

0: limited vol. + source: 1233038-13

Dry Weight (% Solids) Bench Sheet (BR-1501 Rev 005)

Batch #: B121637, 1638

Analyst: CCE

Date: 9/7/12

Page 2 of 2

Sample ID#	Dish # (if diff. from Sample ID)	Tare Wt. (g)	Gross Wet Wt. (g)	Initial Gross Dry Wt. (g)	Verification Gross Dry Wt. #1* (g)	Verification Gross Dry Wt. #2 (g)
BK1	 	0.988	-	0.988	 	
BK2	 	0.993	-	0.993	 	
<div style="position: absolute; top: 40%; left: 40%; transform: translate(-50%, -50%); font-size: 2em;"> cc 9/10/12 </div>						

* Verification dry weight (net) must be within 4% of or < 0.5 mg less than the previous dry weight measurement; whichever is stricter.

Sample Characteristics Log (Soil/Sediment)

Report 1233038

(BR-0106 Rev 003)

Batch(es): B121637, 1638

Initials: CC

Date: 9/7/12

Key: Rock = Rk, Sand = Sd, Silt = St, Clay = Cl, Organic Matter = OM

Write a 1 - 10 (indicating approximate percentage of constituent) below each descriptor. The numbers should always add up to 10. For example Rk 2, Sd 5, OM 3

Sample ID	Deca nted	Matrix (1 - 10)					Comments Color, odor, homogeneity, rock size, etc.
		Rk	Sd	St	Cl	OM	
1233038-13		1	6	1	1	1	dark gray, slightly wet
┆ -14		1	5	1	2	1	dark gray
1233048-08		1	1		6		light brown clay
┆ -09		1	1		1		
┆ -10		1	1		1		
┆ -11		1	1		1		
┆ -12		1	1		1		light brown outer, black inner clay
┆ -13		1	1	1	1		light brown clay
┆ -14		1	1	2	5		
┆ -15		1	1	1	6		
┆ -16		1	1	1	1		
┆ -17	1233048	3	1	1	4		light brown/gray semi-wet mix
┆ -18		1	1	1	6		light brown clay
┆ -19		1	1	1	1		
┆ -20		1	1	1	1		
┆ -21		3	1	1	4	1	light brown/gray semi-wet mix
┆ -22		2	1	1	4	2	light brown outer / gray inner clay, ^{some grass-like fibers}
┆ -23		3	1	1	4	1	very wet black/dark brown mix
┆ -24		1	1	1	6	1	light brown clay
┆ -25		2	1	1	5	1	very wet black/dark brown mix
┆ -26		1	2	1	4	2	very wet clay w/ grass-like fibers + twigs

cc 9/7/12

Comments: