Method 200.8

ATL Number:	065632

(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4

Date(s) Analyzed: 11/04/03

Initial Calibration:

		INTENSITY			
COMPOUND	STD1	STD2	STD3	STD4	r2
CHROMIUM	12935	51105	94315	178109	0.999965

Standard Concentratic	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST031104F	MST031104E	MST031104D	MST031104C

Calibration Acceptance Criteria: > 0.995 Correlation

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number:	065632

(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4

Date(s) Analyzed: 11/05/03

Initial Calibration:

		INTENSITY			
COMPOUND	STD1	STD2	STD3	STD4	r2
CHROMIUM	14950	54673	97728	185764	0.999963

Standard Concentratic	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST031105E	MST031105D	MST031105C	MST031105B

Calibration Acceptance Criteria: > 0.995 Correlation

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/04/2003

QC Batch Number: R32245

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-R32245	C	M
Chromium	1	0.218		0.140		0.198		0.229		0.069		

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ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/04/2003

QC Batch Number: R32245

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	5	C	6	C	Prepa-ration Blank MB-R32245	C	M
Chromium	1	0.218		0.284		0.252				0.069		

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: NA
Digestion Method: NA

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/5/03

QC Batch Number: MB-R32297

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-R32297	C	M
Chromium	1	0.190		0.123		0.231		0.400		0.041		

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ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/05/2003

QC Batch Number: R32298

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-R32298	C	M
Chromium	1	0.190		0.111		0.310		0.442		-0.007		

0064

Advanced Technology Laboratories
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ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: NA
Digestion Method: NA

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/5/03

QC Batch Number: MB-R32300

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-R32300	C	M
Chromium	1	0.190		0.442		0.123				0.461		

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ATL Number: 065632

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: NA
Digestion Method: NA

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/5/03

QC Batch Number: 15669

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-15669	C	M
Chromium	1	0.190		0.400		0.197				0.146		

Advanced Technology Laboratories
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ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/04/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031104H
Continuing Calibration Verification:	LEEMAN LABS	MST031104H

QC Batch: _____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV1	Continuing Calibration %R(1)	Continuing Calibration Found CCV2	Continuing Calibration %R(1)	
Chromium	10.0	10.194	102	10.0	9.988	100	10.021	100	

ICV Limits: 90 -110%
CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/04/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031104H
Continuing Calibration Verification:	LEEMAN LABS	MST031104H

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV3	Continuing Calibration %R(1)	Continuing Calibration Found CCV4	Continuing Calibration %R(1)	
Chromium	10.0	10.194	102	10.0	10.173	102	10.250	103	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/04/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031104H
Continuing Calibration Verification:	LEEMAN LABS	MST031104H

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV5	Continuing Calibration %R(1)	Found CCV6	%R(1)	
Chromium	10.0	10.194	102	10.0	10.351	104			

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV1	Continuing Calibration %R(1)	Found CCV2	%R(1)	
Chromium	10.0	10.117	101	10.0	9.958	100	10.289	103	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories

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ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV3	Continuing Calibration %R(1)	Continuing Calibration Found CCV4	Continuing Calibration %R(1)	
Chromium	10.0	10.117	101	10.0	10.901	109	10.357	104	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

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ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV5	Continuing Calibration %R(1)	Continuing Calibration Found CCV6	Continuing Calibration %R(1)	
Chromium	10.0	10.117	101	10.0	10.238	102	10.344	103	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV7	Continuing Calibration %R(1)	Found CCV8	%R(1)	
Chromium	10.0	10.117	101	10.0	10.429	104			

ICV Limits: 90 -110%

CCV Limits: 85 -115%

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ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/04/2003 Standard Concentration: 50 ug/L

QC Batch: R32245

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	564441	---		---		---		---
Lab ID	Sample Description										
MB-R32245				574580	102						
LCS-R32245				574853	102						
065632-001A				674448	119						
065632-002A				680933	121						
065632-003A				672536	119						
065632-004A				703251	125						
065632-005A				683719	121						
065632-006A				586357	104						
065632-007A				675479	120						
065632-008A				635207	113						
065632-009A				680106	120						
065632-010A				694372	123						
065632-010ADUP 2X				663825	118						
065632-011A 2X				672622	119						
065632-012A 2X				670661	119						
065632-013A				626913	111						
065632-014A				689100	122						
065632-015A 2X				680886	121						
065632-016A 2X				668016	118						
065632-017A 5X				635473	113						
065632-018A 5X				642247	114						
065632-019A				662052	117						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/04/2003 Standard Concentration: 50 ug/L

QC Batch: R32245

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	564441	---		---		---		---
Lab ID	Sample Description										
065632-041A 2x				704542	125						
065632-041ADUP 2x				686345	122						
065632-041AMS 4x				663508	118						
065632-041AMSD 4x				640065	113						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
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ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/05/2003 Standard Concentration: 50 ug/L

QC Batch: R32298

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	616968	---		---		---		---
Lab ID	Sample Description										
MB-R32298				599392	97						
LCS-R32298				592170	96						
065632-022A				731816	119						
065632-023A				683398	111						
065632-024A				639785	104						
065632-025A				602984	98						
065632-026A				680554	110						
065632-027A				647646	105						
065632-028A				648113	105						
065632-029A				658274	107						
065632-030A				728899	118						
065632-030ADUP				727530	118						
065632-031A				718173	116						
065632-032A				617206	100						
065632-033A				676536	110						
065632-034A				703381	114						
065632-035A				701369	114						
065632-036A				685837	111						
065632-036ADUP				683325	111						
065632-037A				706797	115						
065632-038A				590014	96						
065632-039A				666103	108						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/05/2003 Standard Concentration: 50 ug/L

QC Batch: R32298

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	564441	---		---		---		---
Lab ID	Sample Description										
065632-040A				699993	124						
065632-036AMS				679354	120						
065632-036AMSD				680684	121						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/05/2003 Standard Concentration: 50 ug/L

QC Batch: 15669

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	616968	---		---		---		---
Lab ID	Sample Description										
MB-15669				583164	95						
LCS-15669				580555	94						
065632-021A				624439	101						
065632-021ADUP				612642	99						
065632-021AMS				622343	101						
065632-021AMSD				634833	103						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065632

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/05/2003 Standard Concentration: 50 ug/L

QC Batch: R32300

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	616968	---		---		---		---
Lab ID	Sample Description										
MB-R32300				583924	95						
LCS-R32300				585152	95						
065632-020A				625256	101						
065632-042A				722174	117						
065632-043A				646113	105						
065632-043ADUP				651581	106						
065632-043AMS				647637	105						
065632-043AMSD				645697	105						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R37298

Date Read / Digested: 11-5-03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10 NTU	1) Drinking Water	4) Soil	Hydrochloric N/A
2) 3010A	Std Code: SLR-0029	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NS	3) Liquid	(6) Other water	
4) 3051				

	Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code	Final Vol (ml)	Initials	Comments
	MS 065632-036A	-0.04	10	0.10ml	1 ppm	MST031105 A	10	NS	
	MSD ↓	↓	↓	↓	↓	↓	↓	↓	
	Method Blank	—	↓	—	—	—	↓	↓	
	LCS	—	↓	0.10ml	1 ppm	MST031105F	↓	↓	
	Blank MS								
	Blank MSD								
1	065632-~~00~~ NS 022A	0.07	10				10	NS	
2	-023	0.17	↓				↓	↓	
3	-024	0.53							
4	-025	-0.13							
5	-026	-0.06							
6	-027	0.71							
7	-028	0.66							
8	-029	0.29							
9	-030	0.10							
10	-031	0.58							
11	-032	0.05							
12	-033	0.06							
13	-034	0.07							
14	-035	0.10							
15	-036	-0.04							
16	037	0.12							
17	-038	-0.04							
18	-039	0.32							
19	-040 ↓	0.24	↓				↓	↓	
20	NS 11-5-03								
DUP	~~0653~~ 065632-030A 065632-036A	0.10 0.21	10				10	NS	

* Turbidity <1 NTU **DOES NOT** need sample preparation.

Advanced Technology Laboratories, Logbook # 6

0080

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R32300

Date Read / Digested: 11-5-03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10 NTU	1) Drinking Water	4) Soil	Hydrochloric N/A
2) 3010A	Std Code: SQR-0029	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NJ	3) Liquid	(6) Other water	
4) 3051				

	Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code	Final Vol (ml)	Initials	Comments
	MS 065632-043A	0.50	10	0.10ml	1 ppm	HST031105A	10	NJ	
	MSD "	"	"	"	"	"	"	"	
	Method Blank	—	"	—	—	—	"	"	
	LCS	—	"	0.10ml	1 ppm	HST031105F	"	"	
	Blank MS								
	Blank MSD								
1	065632-020A	0.15	10				10	NJ	
2	" -042 "	0.16	"				"	"	
3	" -043 "	0.50	"				"	"	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
DUP	065632-043A	0.50	10				10	NJ	

* Turbidity <1 NTU **DOES NOT** need sample preparation.

Advanced Technology Laboratories, Logbook # 6

ICP-MS : Turbidity Check and Sample Preparation Log

Qc Number: 15669

Date Read / Digested: 11-5-03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10 NTU	1) Drinking Water	4). Soil	Hydrochloric Y36031
2) 3010A	Std Code: SQL-0929	2) Ground Water	5). Solid	Nitric Y29047
3) 3050B	Initials: NJ	3) Liquid	(6) Other water	
4) 3051				

	Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code	Final Vol (ml)	Initials	Comments
	MS 065632-021A	2.61	40	0.04	10 ppm	MSP030414A	50	NJ	
	MSD ↑	↓	↓	↓	↓	↓	↓	↓	
	Method Blank	—	↓	—	—	—	↓	↓	
	LCS	—	↓	0.04	10 ppm	MLP030220A	↓	↓	
	Blank MS								
	Blank MSD								
1	065632-021A	2.61	40				50	NJ	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
DUP	065632-021A	2.61	40				50	NJ	

* Turbidity <1 NTU **DOES NOT** need sample preparation.

Advanced Technology Laboratories, Logbook # 6

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R32245 **Date Read / Digested:** 11-4-03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10 NTU	1) Drinking Water	4) Soil	Hydrochloric N/A
2) 3010A	Std Code: SCR-0029	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NJ	3) Liquid	6) Other water	
4) 3051				

Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code NJ 11-4-03	Final Vol. (ml)	Initials	Comments
MS 065632-041A	0.19	2.5	0.10ml	1 ppm	~~HSP~~ HST031104G	10	NJ	
MSD ↓	↓	↓	↓	↓	↓	↓	↓	
Method Blank	—	10	—	—	—	↓	↓	
LCS	—	↓	0.10ml	1ppm	HST031104G	↓	↓	
Blank MS								
Blank MSD								
1 065632-001A	0.18	10				10	NJ	
2 -002	0.04	↓				↓	↓	
3 -003	-0.02							
4 -004	-0.09							
5 -005	-0.03							
6 -006	0.12							
7 -007	-0.04							
8 -008	0.15							
9 -009	0.18							
10 -010	0.15	↓						
11 -011	0.05	5						
12 -012	-0.07	5						
13 -013	-0.04	10						
14 -014	0.04	1						
15 -015	-0.01	5						
16 -016	0.02	5						
17 -017	-0.06	2						
18 -018	0.06	2						
19 -019	0.41	10						
20 -041 ↓	0.19	5						
DUP 065632-010A	0.25	5						
065632-041A	0.04	5						

*Turbidity <1 NTU **DOES NOT** need sample preparation.

Advanced Technology Laboratories, Logbook # 6

Advanced Technology Laboratories

PREP BATCH REPORT

Prep Start Date: 11/05/2003 8:38:50
Prep End Date: 11/05/2003 2:05:10

Initials/ Date: [illegible] 11-05-03

Prep Batch 15669 Prep Code: 200.8_PR Technician: Nancy Sibucao

Prep Factor Units: mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Sol Added	Sol Recov	Fin Vol	factor	Clean Up Code	TURB Check
MB-15669	Water		40	☐	0	0	50	1.250		
LCS-15669	Water		40	☐	0	0	50	1.250		
065632-021A	Water		40	☐	0	0	50	1.250		
065632-021ADUP	Water		40	☐	0	0	50	1.250		
065632-021AMS	Water		40	☐	0	0	50	1.250		
065632-021AMSD	Water		40	☐	0	0	50	1.250		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name	LotNo:
530	NITRIC ACID	Y29047
534	HYDROCLORIC ACID	Y36031

Spk ID	Spike Name	SampType	AmtAdd (ml)
MSP030220A	CHECKMATE STANDARD 1	LCS	0.04
MSP030414Q	CHECKMATE STANDARD 1	MS	0.04

Sample/Batch Report

User Name: Nancy
Computer Name: ICPMS PE 6100
Sample File: D:\ELAN\Elandata03Sept\Sample\2003\November\110403-2.sam
Report Date/Time: Tuesday, November 04, 2003 17:03:28

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
7		ICV							
1		ICB							
9		MB-							
10		LCS-							
11		065632-001A							
12		065632-002A							
13		065632-003A							
14		065632-004A							
15		065632-005A							
16		065632-006A							
17		065632-007A							
18		065632-008A							
7		CCV							
8		CCB							
19		065632-009A							
20		065632-010A							
21		065632-010ADUP							
22		065632-011A							
23		065632-012A							
24		065632-013A							
25		065632-014A							
26		065632-015A							
27		065632-016A							
28		065632-017A							
7		CCV							
8		CCB							
29		065632-018A							
30		065632-019A							
31		065632-041A							
32		065632-041ADUP							
33		065632-041AMS							
34		065632-041AMSD							
7		CCV							
8		CCB							
35		065632-010ADUP 2X							
36		065632-011A 2X							
37		065632-012A 2X							
38		065632-015A 2X							
39		065632-016A 2X							
40		065632-017A 2X							
41		065632-018A 2X							
42		065632-041A 2X							
43		065632-041ADUP 2X							
44		065632-041AMS 4X							
7		CCV							
8		CCB							
45		065632-041AMSD 4X							
46		065632-017A 5X							
47		065632-018A 5X							

R32245 NS 11/4/03 NS

CAL: NST031104 C/20
D/10
E/5
F/0.5

ICV/CCV: NST031104 H

LCS: NST031104 G

MS/MSD: NST031104 B

ICP4

0085

7	CCV
8	CCB

0086

Instrument Tuning Report

File Name: 110403.tun
File Path: D:\ELAN\Elandata03Sept\TUNING\2003\November

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.026	2054	2040	0.704	
Mg	23.985	23.979	5700	2020	0.706	
Rh	102.905	102.929	24972	1965	0.713	
Ce	139.905	139.929	33970	2025	0.719	
Pb	207.977	207.979	50416	2270	0.744	
U	238.050	238.076	57629	2435	0.746	

ELAN Instrument Control Session

Data Only Method - c:\elandata\Method\ATL Methods 030317\ATL-TUNING250.mth

Calibration

Sweeps / Reading: 35

Readings / Replicate: 1

Replicates: 6

Tuning File: Default.tun

Optimization File: Default.opt

	Analyte	Begin Mass (amu)	End Mass (amu)	Scan Mode	MCA Channels	Dwell Time per AMU (ms)	Int. Time
1		5	10	Scanning	20	20	420
2		22	26	Scanning	20	20	350
3		102	104	Scanning	20	20	210
4		139	141	Scanning	20	20	210
5		206	209	Scanning	20	20	280

Tuning - D:\ELAN\Elandata03Sept\TUNING\2003\November\110403.tun

Tune Mass Step

Peak Width Only

Peak Search Window (amu): 1

Resolution DAC: 2040

In Analyte

	Analyte	Mass (amu)	Measured Mass (amu)	Mass Calibration DAC Value	Resolution DAC Value	Measured Width
1	Be	9.0122	9.026	2054	2040	0.704
2	Mg	23.985	23.9788	5700	2020	0.706
3	Rh	102.905	102.929	24972	1965	0.713
4	Ce	139.905	139.929	33970	2025	0.719
5	Pb	207.977	207.979	50416	2270	0.748
6	U	238.05	238.076	57629	2435	0.746

Daily Performance Report

Sample ID: 110403-daily
Sample Date/Time: Tuesday, November 04, 2003 09:50:09
Sample Description:
Method File: c:\elandata\Method\Daily.mth
Dataset File: d:\elan\elandata03sept\daily performance\2003\november\110403-daily.001
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35
Current Dead Time (ns): 35

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	43056.3	43056.294	641.862	1.5
	Rh	102.9	158624.3	158624.296	137.991	0.1
	In	114.9	204548.1	204548.062	5790.502	2.8
	Pb	208.0	113352.4	113352.433	429.775	0.4
⌈>	Ba	137.9	164659.8	164659.807	2897.444	1.8
⌊	Ba++	69.0	3142.9	0.019	0.000	0.7
⌈>	Ce	139.9	197598.8	197598.758	1869.014	0.9
⌊	CeO	155.9	5694.7	0.029	0.001	3.0
	Bkgd	220.0	6.0	6.000	0.707	11.8

Current Optimization File Data

Current Value	Description
0.84	Nebulizer Gas Flow
10.00	Lens Voltage
1100.00	ICP RF Power
-1925.00	Analog Stage Voltage
1925.00	Pulse Stage Voltage
85.00	Discriminator Threshold
-1.50	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	9	9.0	6983.7
Co	59	9	10.0	94863.9
In	115	9	11.5	192753.7

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 14:48:33
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\Blank.001
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Blank
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7		106597	1.7			ug/L	%
	Ge	72		123837	0.2			ug/L	%
>	**Sc-1**	45		564441	1.1			ug/L	%
	Cr	52		8139	2.2			ug/L	%
	In	115		1107463	0.4			ug/L	%
	Tb	159		1372115	1.6			ug/L	%
	Sc	45		564441	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 14:51:02
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\Standard 1.002
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 1
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	109159	2.2			ug/L	%
	Ge	72	123837	125194	0.8			ug/L	%
>	**Sc-1**	45	564441	570439	1.1			ug/L	%
	Cr	52	8139	12935	1.5	**0.500**	0.006	ug/L	1.3 %
	In	115	1107463	1123267	0.8			ug/L	%
	Tb	159	1372115	1384047	1.7			ug/L	%
	Sc	45	564441	570439	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 14:53:47
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\Standard 2.003
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 2
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	110743	1.4			ug/L	%
	Ge	72	123837	126698	0.7			ug/L	%
>	Sc-1	45	564441	581238	0.7			ug/L	%
	Cr	52	8139	51105	0.9	**4.994**	0.027	ug/L	0.5 %
	In	115	1107463	1147408	0.2			ug/L	%
	Tb	159	1372115	1428694	1.2			ug/L	%
	Sc	45	564441	581238	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 14:56:32
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\Standard 3.004
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 3
Sample Type:

Summary

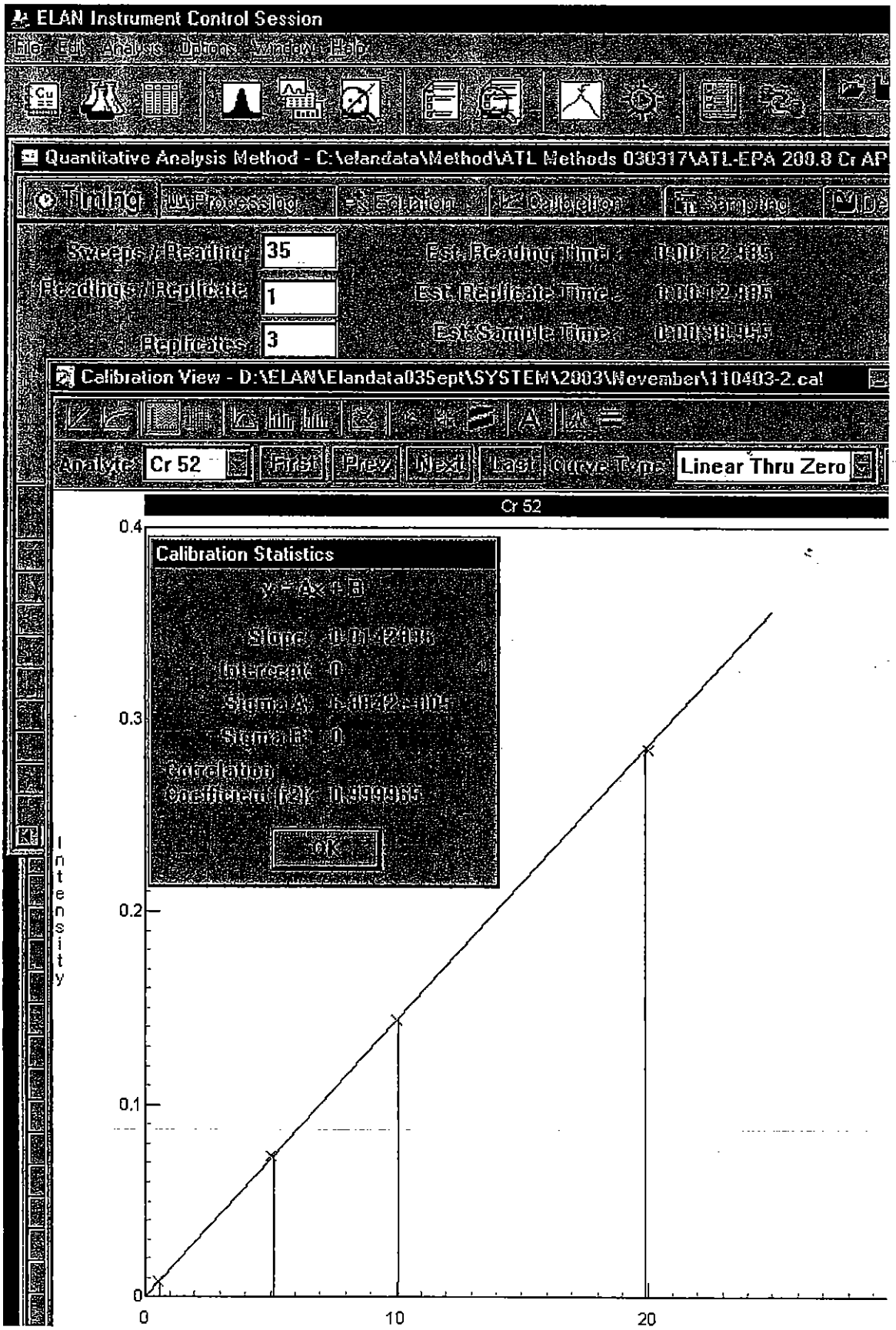
	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	114063	1.4			ug/L	%
	Ge	72	123837	130214	0.5			ug/L	%
>	**Sc-1**	45	564441	596254	0.9			ug/L	%
	Cr	52	8139	94315	1.1	**9.952**	0.035	ug/L	0.4 %
	In	115	1107463	1177918	0.6			ug/L	%
	Tb	159	1372115	1462700	1.1			ug/L	%
	Sc	45	564441	596254	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 14:59:19
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\Standard 4.005
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 4
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	112784	1.8			ug/L	%
	Ge	72	123837	128707	0.4			ug/L	%
[>	**Sc-1**	45	564441	595552	0.9			ug/L	%
[	**Cr**	52	8139	178109	0.8	**19.929**	0.213	ug/L	1.1 %
	In	115	1107463	1176281	0.0			ug/L	%
	Tb	159	1372115	1451985	0.6			ug/L	%
	Sc	45	564441	595552	0.9			ug/L	%


ELAN Instrument Control Session
File Edit Analysis Options Window Help
Quantitative Analysis Method - C:\elandata\Method\ATL Methods 030317\ATL-EPA 200.8 Cr AP
Timing
Processing
Equation
Calibration
Sampling
Sweeps / Reading 35
Readings / Replicate 1
Replicates 3
Est. Reading Time : 0:00:12.985
Est. Replicate Time : 0:00:12.985
Est. Sample Time : 0:00:38.955
Calibration View - D:\ELAN\Elandata03Sept\SYSTEM\2003\November\110403-2.cal
Analyte Cr 52
First
Prev
Next
Last
Curve Type Linear Thru Zero
Cr 52
Calibration Statistics
y = Ax + B
Slope 0.0142896
Intercept 0
Sigma A 6.8842e-005
Sigma B 0
Correlation Coefficient (r2) 0.999965
OK
Intensity
0.4
0.3
0.2
0.1
0
0
10
20

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:02:07
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\ICV.006
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: ICV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	112354	1.7			ug/L	%
	Ge	72	123837	130822	0.9			ug/L	%
>	**Sc-1**	45	564441	594992	0.8			ug/L	%
	Cr	52	8139	95216	1.1	**10.194**	0.071	ug/L	0.7 %
	In	115	1107463	1177101	0.7			ug/L	%
	Tb	159	1372115	1468723	0.2			ug/L	%
	Sc	45	564441	594992	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:04:38
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\ICB.007
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: ICB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	111985	1.1			ug/L	%
	Ge	72	123837	129636	0.7			ug/L	%
>	**Sc-1**	45	564441	600612	2.2			ug/L	%
	Cr	52	8139	10526	1.0	**0.218**	0.027	ug/L	12.3 %
	In	115	1107463	1172395	1.2			ug/L	%
	Tb	159	1372115	1465951	1.5			ug/L	%
	Sc	45	564441	600612	2.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:13:42
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\MB-.008
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: MB- R32245 NJ 11/4/03 NJ
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	108194	1.3			ug/L	%
	Ge	72	123837	126348	0.7			ug/L	%
[>	**Sc-1**	45	564441	574580	1.1			ug/L	%
[	**Cr**	52	8139	8851	4.4	**0.069**	0.037	ug/L	53.4 %
	In	115	1107463	1136603	1.4			ug/L	%
	Tb	159	1372115	1400975	1.1			ug/L	%
	Sc	45	564441	574580	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:16:10
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\LCS-.009
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: LCS- R72245 NS 11/4/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	108891	0.8			ug/L	%
	Ge	72	123837	126673	0.7			ug/L	%
[>	**Sc-1**	45	564441	574853	1.0			ug/L	%
[	**Cr**	52	8139	91650	1.0	**10.153**	0.019	ug/L	0.2 %
	In	115	1107463	1131241	0.9			ug/L	%
	Tb	159	1372115	1387776	0.5			ug/L	%
	Sc	45	564441	574853	1.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:18:39
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-001A.010
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-001A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	118384	0.7			ug/L	%
	Ge	72	123837	133881	0.8			ug/L	%
>	**Sc-1**	45	564441	674448	1.1			ug/L	%
	Cr	52	8139	21800	2.0	**1.254**	0.045	ug/L	3.6 %
	In	115	1107463	1152011	0.5			ug/L	%
	Tb	159	1372115	1426313	0.6			ug/L	%
	Sc	45	564441	674448	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:21:08
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-002A.011
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-002A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	109637	1.8			ug/L	%
	Ge	72	123837	137926	1.2			ug/L	%
[>	Sc-1	45	564441	680933	1.1			ug/L	%
[	Cr	52	8139	25565	0.5	1.619	0.018	ug/L	1.1 %
	In	115	1107463	1190287	0.9			ug/L	%
	Tb	159	1372115	1446189	1.0			ug/L	%
	Sc	45	564441	680933	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:23:38
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-003A.012
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-003A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	107050	0.6			ug/L	%
	Ge	72	123837	133452	1.0			ug/L	%
>	**Sc-1**	45	564441	672536	1.0			ug/L	%
	Cr	52	8139	37791	0.3	**2.925**	0.040	ug/L	1.4 %
	In	115	1107463	1167595	1.2			ug/L	%
	Tb	159	1372115	1424194	1.0			ug/L	%
	Sc	45	564441	672536	1.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:26:08
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-004A.013
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-004A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	102935	1.4			ug/L	%
	Ge	72	123837	135160	0.8			ug/L	%
>	**Sc-1**	45	564441	703251	0.4			ug/L	%
	Cr	52	8139	22741	1.6	**1.254**	0.041	ug/L	3.3 %
	In	115	1107463	1193975	1.4			ug/L	%
	Tb	159	1372115	1423458	0.6			ug/L	%
	Sc	45	564441	703251	0.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:28:38
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-005A.014
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-005A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	101234	0.4			ug/L	%
	Ge	72	123837	131760	0.9			ug/L	%
[>	**Sc-1**	45	564441	683719	0.9			ug/L	%
[	**Cr**	52	8139	28752	1.6	**1.935**	0.050	ug/L	2.6 %
	In	115	1107463	1181505	2.1			ug/L	%
	Tb	159	1372115	1451232	1.8			ug/L	%
	Sc	45	564441	683719	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:31:09
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-006A.015
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-006A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96707	0.4			ug/L	%
	Ge	72	123837	127272	0.4			ug/L	%
>	**Sc-1**	45	564441	586357	0.6			ug/L	%
	Cr	52	8139	5847	0.3	**-0.311**	0.005	ug/L	1.6 %
	In	115	1107463	1158245	1.0			ug/L	%
	Tb	159	1372115	1407062	0.1			ug/L	%
	Sc	45	564441	586357	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:33:41
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-007A.016
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-007A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	97049	0.2			ug/L	%
	Ge	72	123837	131553	0.7			ug/L	%
>	**Sc-1**	45	564441	675479	0.7			ug/L	%
	Cr	52	8139	22961	0.6	**1.370**	0.015	ug/L	1.1 %
	In	115	1107463	1179195	0.5			ug/L	%
	Tb	159	1372115	1429899	0.8			ug/L	%
	Sc	45	564441	675479	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:36:12
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-008A.017
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-008A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	100119	0.6			ug/L	%
	Ge	72	123837	131724	0.2			ug/L	%
>	Sc-1	45	564441	635207	0.8			ug/L	%
	Cr	52	8139	22363	0.7	1.455	0.003	ug/L	0.2 %
	In	115	1107463	1150056	1.3			ug/L	%
	Tb	159	1372115	1409272	0.6			ug/L	%
	Sc	45	564441	635207	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:38:46
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCV.018
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	102968	1.6			ug/L	%
	Ge	72	123837	122994	0.2			ug/L	%
[>	**Sc-1**	45	564441	561865	1.2			ug/L	%
[	**Cr**	52	8139	88256	0.3	**9.988**	0.101	ug/L	1.0 %
	In	115	1107463	1117944	0.4			ug/L	%
	Tb	159	1372115	1384299	0.2			ug/L	%
	Sc	45	564441	561865	1.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:41:20
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCB.019
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	104206	0.9			ug/L	%
	Ge	72	123837	124831	0.6			ug/L	%
>	**Sc-1**	45	564441	577519	0.5			ug/L	%
	Cr	52	8139	9482	1.6	**0.140**	0.013	ug/L	9.0 %
	In	115	1107463	1140516	0.5			ug/L	%
	Tb	159	1372115	1400306	0.1			ug/L	%
	Sc	45	564441	577519	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:43:54
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-009A.020
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-009A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	105567	0.8			ug/L	%
	Ge	72	123837	136629	0.3			ug/L	%
[>	Sc-1	45	564441	680106	0.8			ug/L	%
[	Cr	52	8139	17953	2.5	0.839	0.051	ug/L	6.1 %
	In	115	1107463	1218330	1.7			ug/L	%
	Tb	159	1372115	1486240	0.6			ug/L	%
	Sc	45	564441	680106	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:46:27
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-010A.021
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-010A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	99852	1.7			ug/L	%
	Ge	72	123837	137458	0.5			ug/L	%
[>	**Sc-1**	45	564441	694372	1.1			ug/L	%
[	**Cr**	52	8139	43913	1.0	**3.418**	0.032	ug/L	0.9 %
	In	115	1107463	1230856	0.7			ug/L	%
	Tb	159	1372115	1490660	0.2			ug/L	%
	Sc	45	564441	694372	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:49:00
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-010ADUP.022
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-010ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	99307	2.4			ug/L	%
	Ge	72	123837	141157	0.3			ug/L	%
>	Sc-1	45	564441	720530	0.6			ug/L	%
	Cr	52	8139	44658	1.3	**3.330**	0.054	ug/L	1.6 %
	In	115	1107463	1270490	0.5			ug/L	%
	Tb	159	1372115	1526711	0.5			ug/L	%
	Sc	45	564441	720530	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:51:34
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-011A.023
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-011A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	98597	0.4			ug/L	%
	Ge	72	123837	138400	0.8			ug/L	%
[>	**Sc-1**	45	564441	709346	0.0			ug/L	%
[	**Cr**	52	8139	29184	1.7	**1.871**	0.050	ug/L	2.7 %
	In	115	1107463	1259005	0.9			ug/L	%
	Tb	159	1372115	1522445	2.0			ug/L	%
	Sc	45	564441	709346	0.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:54:08
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-012A.024
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-012A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	102074	2.4			ug/L	%
	Ge	72	123837	139145	0.4			ug/L	%
>	**Sc-1**	45	564441	727909	1.3			ug/L	%
	Cr	52	8139	29769	2.5	**1.853**	0.052	ug/L	2.8 %
	In	115	1107463	1275175	1.3			ug/L	%
	Tb	159	1372115	1554208	1.1			ug/L	%
	Sc	45	564441	727909	1.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:56:39
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-013A.025
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-013A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	97897	2.0			ug/L	%
	Ge	72	123837	136574	0.2			ug/L	%
⌈>	**Sc-1**	45	564441	626913	0.9			ug/L	%
⌊	**Cr**	52	8139	5669	1.2	**-0.376**	0.010	ug/L	2.7 %
	In	115	1107463	1262653	0.4			ug/L	%
	Tb	159	1372115	1559742	0.6			ug/L	%
	Sc	45	564441	626913	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 15:59:06
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-014A.026
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-014A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	99826	1.1			ug/L	%
	Ge	72	123837	137358	0.6			ug/L	%
[>	**Sc-1**	45	564441	689100	1.3			ug/L	%
[	**Cr**	52	8139	16754	1.3	**0.693**	0.045	ug/L	6.5 %
	In	115	1107463	1219030	1.2			ug/L	%
	Tb	159	1372115	1504225	0.6			ug/L	%
	Sc	45	564441	689100	1.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:01:34
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-015A.027
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-015A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	102928	0.9			ug/L	%
	Ge	72	123837	139805	0.5			ug/L	%
[>	**Sc-1**	45	564441	744047	0.3			ug/L	%
[	**Cr**	52	8139	45290	1.0	**3.252**	0.053	ug/L	1.6 %
	In	115	1107463	1276364	1.4			ug/L	%
	Tb	159	1372115	1556904	0.5			ug/L	%
	Sc	45	564441	744047	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:04:02
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-016A.028
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-016A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	103567	1.5			ug/L	%
	Ge	72	123837	139099	0.2			ug/L	%
>	Sc-1	45	564441	742234	0.8			ug/L	%
	Cr	52	8139	48358	1.6	3.552	0.089	ug/L	2.5 %
	In	115	1107463	1277774	0.6			ug/L	%
	Tb	159	1372115	1554320	0.9			ug/L	%
	Sc	45	564441	742234	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:06:31
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-017A.029
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-017A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	101581	1.2			ug/L	%
	Ge	72	123837	137747	0.9			ug/L	%
>	**Sc-1**	45	564441	765282	0.2			ug/L	%
	Cr	52	8139	40576	0.3	**2.703**	0.010	ug/L	0.4 %
	In	115	1107463	1275042	0.9			ug/L	%
	Tb	159	1372115	1564124	0.4			ug/L	%
	Sc	45	564441	765282	0.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:09:03
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCV.030
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	101821	0.9			ug/L	%
	Ge	72	123837	127312	0.8			ug/L	%
>	**Sc-1**	45	564441	598327	0.8			ug/L	%
	Cr	52	8139	94269	0.3	**10.021**	0.063	ug/L	0.6 %
	In	115	1107463	1200309	0.6			ug/L	%
	Tb	159	1372115	1496078	1.4			ug/L	%
	Sc	45	564441	598327	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:11:37
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCB.031
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96359	1.6			ug/L	%
	Ge	72	123837	126068	1.3			ug/L	%
[>	**Sc-1**	45	564441	587323	0.5			ug/L	%
[	**Cr**	52	8139	10126	1.7	**0.198**	0.021	ug/L	10.9 %
	In	115	1107463	1184750	0.4			ug/L	%
	Tb	159	1372115	1490906	1.2			ug/L	%
	Sc	45	564441	587323	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:14:10
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-018A.032
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-018A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	98252	1.9			ug/L	%
	Ge	72	123837	133199	0.6			ug/L	%
>	Sc-1	45	564441	778721	1.3			ug/L	%
	Cr	52	8139	56434	1.5	**4.064**	0.032	ug/L	0.8 %
	In	115	1107463	1226690	0.3			ug/L	%
	Tb	159	1372115	1516135	0.7			ug/L	%
	Sc	45	564441	778721	1.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:16:39
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-019A.033
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-019A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96268	3.3			ug/L	%
	Ge	72	123837	136503	0.9			ug/L	%
[>	**Sc-1**	45	564441	662052	0.7			ug/L	%
[	**Cr**	52	8139	42917	0.7	**3.529**	0.056	ug/L	1.6 %
	In	115	1107463	1292870	1.7			ug/L	%
	Tb	159	1372115	1591838	0.5			ug/L	%
	Sc	45	564441	662052	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:19:10
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041A.034
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	98711	1.6			ug/L	%
	Ge	72	123837	131002	0.5			ug/L	%
[>	Sc-1	45	564441	718766	1.2			ug/L	%
[	Cr	52	8139	52901	1.6	4.144	0.147	ug/L	3.6 %
	In	115	1107463	1226761	1.6			ug/L	%
	Tb	159	1372115	1511941	0.7			ug/L	%
	Sc	45	564441	718766	1.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:21:40
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041ADUP.035
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	103072	2.0			ug/L	%
	Ge	72	123837	131332	1.3			ug/L	%
⌈>	**Sc-1**	45	564441	730282	1.7			ug/L	%
⌊	**Cr**	52	8139	55112	1.6	**4.274**	0.010	ug/L	0.2 %
	In	115	1107463	1246972	1.8			ug/L	%
	Tb	159	1372115	1514702	1.4			ug/L	%
	Sc	45	564441	730282	1.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:24:12
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041AMS.036
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041AMS
Sample Type:

Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	106597	101329	1.7			ug/L	%
Ge	72	123837	130147	0.6			ug/L	%
> **Sc-1**	45	564441	712054	0.7			ug/L	%
Cr	52	8139	135206	0.6	**12.285**	0.099	ug/L	0.8 %
In	115	1107463	1236840	1.6			ug/L	%
Tb	159	1372115	1508379	0.8			ug/L	%
Sc	45	564441	712054	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:26:43
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041AMSD.037
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	98712	1.0			ug/L	%
	Ge	72	123837	127296	1.1			ug/L	%
>	**Sc-1**	45	564441	689818	1.8			ug/L	%
	Cr	52	8139	133380	1.1	**12.529**	0.121	ug/L	1.0 %
	In	115	1107463	1210225	1.5			ug/L	%
	Tb	159	1372115	1494241	0.6			ug/L	%
	Sc	45	564441	689818	1.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:29:16
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCV.038
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96692	1.2			ug/L	%
	Ge	72	123837	122858	0.2			ug/L	%
>	Sc-1	45	564441	591948	0.5			ug/L	%
	Cr	52	8139	94550	0.9	**10.173**	0.049	ug/L	0.5 %
	In	115	1107463	1192027	0.6			ug/L	%
	Tb	159	1372115	1474444	0.5			ug/L	%
	Sc	45	564441	591948	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:31:51
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCB.039
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	94566	0.2			ug/L	%
	Ge	72	123837	125567	0.5			ug/L	%
[>	**Sc-1**	45	564441	595912	0.3			ug/L	%
[	**Cr**	52	8139	10542	2.7	**0.229**	0.033	ug/L	14.3 %
	In	115	1107463	1207736	0.9			ug/L	%
	Tb	159	1372115	1503822	0.6			ug/L	%
	Sc	45	564441	595912	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:36:26
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-010ADUP 2X.040
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-010ADUP 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	89999	2.3			ug/L	%
	Ge	72	123837	135882	0.2			ug/L	%
>	**Sc-1**	45	564441	663825	1.4			ug/L	%
	Cr	52	8139	23167	1.0	**1.434**	0.056	ug/L	3.9 %
	In	115	1107463	1294179	0.9			ug/L	%
	Tb	159	1372115	1572170	0.7			ug/L	%
	Sc	45	564441	663825	1.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:38:59
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-011A 2X.041
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-011A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	89605	1.9			ug/L	%
	Ge	72	123837	138449	0.7			ug/L	%
>	Sc-1	45	564441	672622	1.6			ug/L	%
	Cr	52	8139	15905	1.0	**0.646**	0.016	ug/L	2.4 %
	In	115	1107463	1316853	0.6			ug/L	%
	Tb	159	1372115	1596339	0.5			ug/L	%
	Sc	45	564441	672622	1.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:41:32
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-012A 2X.042
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-012A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	91602	1.0			ug/L	%
	Ge	72	123837	137047	0.8			ug/L	%
[>	**Sc-1**	45	564441	670661	1.0			ug/L	%
[	**Cr**	52	8139	17028	1.1	**0.768**	0.002	ug/L	0.2 %
	In	115	1107463	1310924	1.9			ug/L	%
	Tb	159	1372115	1580864	1.3			ug/L	%
	Sc	45	564441	670661	1.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:44:05
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-015A 2X.043
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-015A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	90841	1.8			ug/L	%
	Ge	72	123837	137716	0.6			ug/L	%
>	Sc-1	45	564441	680886	0.6			ug/L	%
	Cr	52	8139	24729	1.8	1.533	0.032	ug/L	2.1 %
	In	115	1107463	1310367	0.6			ug/L	%
	Tb	159	1372115	1589320	0.8			ug/L	%
	Sc	45	564441	680886	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:46:39
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-016A 2X.044
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-016A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	89414	1.7			ug/L	%
	Ge	72	123837	136421	0.4			ug/L	%
[>	**Sc-1**	45	564441	668016	0.2			ug/L	%
[	**Cr**	52	8139	24898	2.3	**1.600**	0.055	ug/L	3.4 %
	In	115	1107463	1304373	0.3			ug/L	%
	Tb	159	1372115	1576547	0.7			ug/L	%
	Sc	45	564441	668016	0.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:49:10
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-017A 2X.045
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-017A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96070	1.5			ug/L	%
	Ge	72	123837	139843	1.2			ug/L	%
>	Sc-1	45	564441	711231	0.8			ug/L	%
	Cr	52	8139	21608	1.6	1.117	0.020	ug/L	1.8 %
	In	115	1107463	1356673	0.7			ug/L	%
	Tb	159	1372115	1647729	0.6			ug/L	%
	Sc	45	564441	711231	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:51:37
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-018A 2X.046
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-018A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96653	1.1			ug/L	%
	Ge	72	123837	138141	0.8			ug/L	%
>	**Sc-1**	45	564441	733513	1.1			ug/L	%
	Cr	52	8139	32719	2.1	**2.113**	0.038	ug/L	1.8 %
	In	115	1107463	1344035	0.9			ug/L	%
	Tb	159	1372115	1617606	0.1			ug/L	%
	Sc	45	564441	733513	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:54:04
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041A 2X.047
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041A 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	96615	0.4			ug/L	%
	Ge	72	123837	137726	1.0			ug/L	%
>	Sc-1	45	564441	704542	0.3			ug/L	%
	Cr	52	8139	31727	0.3	**2.143**	0.009	ug/L	0.4 %
	In	115	1107463	1350739	1.4			ug/L	%
	Tb	159	1372115	1636045	0.4			ug/L	%
	Sc	45	564441	704542	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:56:32
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041ADUP 2X.048
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041ADUP 2X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	93710	0.6			ug/L	%
	Ge	72	123837	133248	0.7			ug/L	%
[>	Sc-1	45	564441	686345	0.5			ug/L	%
[	Cr	52	8139	31279	1.3	**2.181**	0.052	ug/L	2.4 %
	In	115	1107463	1318067	1.2			ug/L	%
	Tb	159	1372115	1601958	0.5			ug/L	%
	Sc	45	564441	686345	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 16:59:01
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041AMS 4X.049
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041AMS 4X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	92293	0.7			ug/L	%
	Ge	72	123837	137350	0.5			ug/L	%
[>	**Sc-1**	45	564441	663508	1.4			ug/L	%
[	**Cr**	52	8139	35918	1.9	**2.781**	0.082	ug/L	2.9 %
	In	115	1107463	1343950	0.5			ug/L	%
	Tb	159	1372115	1633668	0.6			ug/L	%
	Sc	45	564441	663508	1.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:01:32
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCV.050
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	94702	1.0			ug/L	%
	Ge	72	123837	128617	0.5			ug/L	%
⌈>	Sc-1	45	564441	616178	0.5			ug/L	%
⌊	Cr	52	8139	99096	0.4	**10.250**	0.027	ug/L	0.3 %
	In	115	1107463	1279160	0.6			ug/L	%
	Tb	159	1372115	1584212	1.0			ug/L	%
	Sc	45	564441	616178	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:04:42
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCB.051
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	89256	2.4			ug/L	%
	Ge	72	123837	126914	0.4			ug/L	%
[>	Sc-1	45	564441	609780	1.6			ug/L	%
[	Cr	52	8139	11266	3.0	**0.284**	0.048	ug/L	16.7 %
	In	115	1107463	1256631	0.3			ug/L	%
	Tb	159	1372115	1557397	0.7			ug/L	%
	Sc	45	564441	609780	1.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:07:14
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-041AMSD 4X.052
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-041AMSD 4X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	83658	1.4			ug/L	%
	Ge	72	123837	132924	0.5			ug/L	%
>	**Sc-1**	45	564441	640065	1.2			ug/L	%
	Cr	52	8139	35655	0.6	**2.891**	0.046	ug/L	1.6 %
	In	115	1107463	1296630	0.8			ug/L	%
	Tb	159	1372115	1575538	1.1			ug/L	%
	Sc	45	564441	640065	1.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:09:44
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-017A 5X.053
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-017A 5X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	83269	0.4			ug/L	%
	Ge	72	123837	133563	0.4			ug/L	%
>	**Sc-1**	45	564441	635473	0.5			ug/L	%
	Cr	52	8139	10747	1.4	**0.175**	0.023	ug/L	12.9 %
	In	115	1107463	1284890	2.5			ug/L	%
	Tb	159	1372115	1571431	1.0			ug/L	%
	Sc	45	564441	635473	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:12:14
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\065632-018A 5X.054
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-018A 5X
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	83239	2.5			ug/L	%
	Ge	72	123837	133710	0.7			ug/L	%
>	**Sc-1**	45	564441	642247	1.4			ug/L	%
	Cr	52	8139	14441	2.8	**0.565**	0.025	ug/L	4.3 %
	In	115	1107463	1301313	0.5			ug/L	%
	Tb	159	1372115	1555234	0.5			ug/L	%
	Sc	45	564441	642247	1.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:14:46
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCV.055
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	106597	85550	0.7			ug/L	%
	Ge	72	123837	123864	0.6			ug/L	%
[>	**Sc-1**	45	564441	586670	0.6			ug/L	%
[	**Cr**	52	8139	95203	1.2	**10.351**	0.069	ug/L	0.7 %
	In	115	1107463	1201752	0.8			ug/L	%
	Tb	159	1372115	1482309	0.5			ug/L	%
	Sc	45	564441	586670	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Tuesday, November 04, 2003 17:17:20
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110403-2\CCB.056
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	106597	86557	2.1			ug/L	%
	Ge	72	123837	124693	0.9			ug/L	%
[>	Sc-1	45	564441	591543	0.6			ug/L	%
[	Cr	52	8139	10663	2.1	**0.252**	0.020	ug/L	8.1 %
	In	115	1107463	1200623	0.4			ug/L	%
	Tb	159	1372115	1507140	0.4			ug/L	%
	Sc	45	564441	591543	0.6			ug/L	%

Sample/Batch Report

User Name: Nancy
Computer Name: ICPMS PE 6100
Sample File: D:\ELAN\Elandata03Sept\Sample\2003\November\110503.sam
Report Date/Time: Wednesday, November 05, 2003 15:36:00

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
7		ICV							
1		ICB							
9		MB- > R32298 NS 11/6/03							
10		LCS-							
11		065632-022A							
12		065632-023A							
13		065632-024A							
14		065632-025A							
15		065632-026A							
16		065632-027A							
17		065632-028A							
18		065632-029A							
7		CCV							
8		CCB							
19		065632-030A							
20		065632-030ADUP							
21		065632-031A							
22		065632-032A							
23		065632-033A							
24		065632-034A							
25		065632-035A							
26		065632-036A							
27		065632-036ADUP							
28		065632-037A							
7		CCV							
8		CCB							
29		065632-038A							
30		065632-039A							
31		065632-040A							
32		065632-036AMS							
33		065632-036AMSD							
7		CCV							
8		CCB							
34		MB- > R32300							
35		LCS-							
36		065632-020A							
37		065632-042A							
38		065632-043A							
39		065632-043ADUP							
40		065632-043AMS							
41		065632-043AMSD							
7		CCV							
8		CCB							
42		MB- > R32297 NS 11/6/03							
43		LCS-							
44		065631-001A							
45		065631-002A							
46		065631-003A							
47		065631-004A							

CAL: MST031105 B/20
C/10
D/5
E/0.5

ICV/CCV: MST031105 G
LCS: MST031105 F
MS/MSD: MST031105 A

15669 { LCS: MSP030220A
MS/MSD: MSP030414Q

ICP4
NS 11/6/03

0147

48	065631-005A
49	065631-006A
50	065631-007A
51	065631-008A
7	CCV
8	CCB
52	065631-009A
53	065631-010A
54	065631-010ADUP
55	065631-011A
56	065631-012A
57	065631-012ADUP
58	065631-010AMS
59	065631-010AMSD
7	CCV
8	CCB
60	MB-15669
61	LCS-15669
62	065632-021A
63	065632-021ADUP
64	065632-021AMS
65	065632-021AMSD
7	CCV
8	CCB

0148