

**(EPA 200.8) - INITIAL CALIBRATION**

Instrument ID: ICP4

Date(s) Analyzed: 08/13/03

Initial Calibration:

COMPOUND	INTENSITY				r2
	STD1	STD2	STD3	STD4	
CHROMIUM	15965	57027	100767	191573	0.999942

Standard Concentration	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST030813K	MST030813J	MST030813I	MST030813H

Calibration Acceptance Criteria: > 0.995 Correlation



ATL Number: 064235

**(EPA 200.8) - INITIAL CALIBRATION**

Instrument ID: ICP4  
Date(s) Analyzed: 08/14/03

Initial Calibration:

COMPOUND	INTENSITY				r2
	STD1	STD2	STD3	STD4	
CHROMIUM	16983	62910	113962	211203	0.999911

Standard Concentration	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST030814E	MST030814D	MST030814C	MST030814B

Calibration Acceptance Criteria: > 0.995 Correlation

0169



ATL Number: 064235

**(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION**  
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/13/2003

Initial Calibration Verification: Source: LEEMAN LABS Standard Code: MST030813M

Continuing Calibration Verification: LEEMAN LABS MST030813M

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found CCV1	%R(1)	Found CCV2	%R(1)
Chromium	10.0	9.911	99	10.0	9.423	94	9.500	95

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

ATL Number: 064235

**(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION**  
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/13/2003

Initial Calibration Verification:	<u>Source:</u> <u>LEEMAN LABS</u>	<u>Standard Code:</u> <u>MST030813M</u>
Continuing Calibration Verification:	<u>LEEMAN LABS</u>	<u>MST030813M</u>

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found CCV3	%R(1)	Found CCV4		
Chromium	10.0	9.911	99	10.0	9.366	94	9.487	95	

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

**(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION**  
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/14/2003

Initial Calibration Verification:	<u>LEEMAN LABS</u>	<u>Standard Code:</u> <u>MST030814G</u>
Continuing Calibration Verification:	<u>LEEMAN LABS</u>	<u>MST030814G</u>

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found CCV1	%R(1)	Found CCV2	%R(1)
Chromium	10.0	10.082	101	10.0	10.422	104	10.819	108

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

ATL Number: 064235

**(EPA 200.8) BLANK \***

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

Dilution Factor: 1  
 Matrix: Water  
 Date Analyzed: 08/13/2003

QC Batch Number: R30052

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
				1	C	2	C	3	C			
Chromium	1	0.102		0.044		0.012		-0.053		0.043		

0173



ATL Number: 064235

(EPA 200.8) BLANK \*

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

Dilution Factor: 1  
Matrix: Water  
Date Analyzed: 08/13/2003

QC Batch Number: R30053

Analyte	DLR	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
			C	1	C	2	C	3	C		C	
Chromium	1	0.102		-0.020							-0.012	

0174

ATL Number: 064235

(EPA 200.8) BLANK \*

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

Dilution Factor: 1  
 Matrix: Water  
 Date Analyzed: 08/14/2003

QC Batch Number: 14733

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
				1	C	2	C	3	C			
Chromium	1	0.010		0.092		0.004				0.121		





ATL Number: 064235

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 08/13/2003 Standard Concentration: 50 ug/L

QC Batch: R30052

		Sc					
		Intensity	% Rec				
Calibration Blank		583761	---				
Lab ID	Sample Description						
MB-R30052		517868	89				
LCS-R30052		522277	89				
064235-006AMS		686389	118				
064235-006AMSD		680361	117				
064235-001A		604783	104				
064235-002A		579725	99				
064235-003A		595171	102				
064235-004A		526518	90				
064235-006A		643481	110				
064235-007A		616353	106				
064235-008A		621372	106				
064235-009A		653371	112				
064235-010A		657620	113				
064235-011A		674989	116				
064235-012A		668299	114				
064235-013A		516263	88				
064235-014A		597822	102				
064235-015A		631923	108				
064235-017A		636476	109				

\* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%



ATL Number: 064235

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 08/13/2003 Standard Concentration: 50 ug/L

QC Batch: R30052

		Sc				
		Intensity	% Rec			
Calibration Blank		583761	---			
Lab ID	Sample Description					
064235-018A		716426	123			
064235-019A		673548	115			
064235-020A		673888	115			
064235-021A		673867	115			
064235-022A		648264	111			
064235-006ADUP		636079	109			
064235-022ADUP		649416	111			

\* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%



ATL Number: 064235

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 08/13/2003 Standard Concentration: 50 ug/L

QC Batch: R30053

		Sc					
		Intensity	% Rec				
Calibration Blank		583761	---				
Lab ID	Sample Description						
MB-R30053		568321	97				
LCS-R30053		578104	99				
064235-016AMS		697753	120				
064235-016AMSD		707181	121				
064235-016A		695710	119				
064235-023A		715257	123				
064235-024A		725719	124				
064235-025A		719151	123				
064235-016ADUP		700153	120				

\* Outside Acceptance Criteria  
Acceptance Criteria: 60 - 125%



ATL Number: 064235  
 Instrument ID: ICP4 Internal Standard ID: MST030606A  
 Date Analyzed: 08/14/2003 Standard Concentration: 50 ug/L  
 QC Batch: 14733

		Sc				
		Intensity	% Rec			
Calibration Blank		671409	---			
Lab ID	Sample Description					
MB-14733	MB-14733	660845	98			
LCS-14733	LCS-14733	662011	99			
064235-005AMS		673893	100			
064235-005AMSD		654952	98			
064235-005A		723674	108			
064235-005ADUP		701977	105			

\* Outside Acceptance Criteria  
 Acceptance Criteria: 60 - 125%



ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: 14737 Date Read / Digested: 8-13-03

Method (Circle one): Turb. Calibration Matrix (Circle one): 4) Soil Acid Lot # Hydrochloric X12028  
 1) 200.8 100 NTU: 10 NTU 1) Drinking Water 2) Ground Water 3) Liquid 5) Solid 6) Other Water  
 Std Code: 501-0022 Initials: NS

Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code	Final Vol (ml)	Initials	Comments
MS 064235-005A	1.50	40	0.04	10 ppm	MS030414Q	50	NS	
MSD	-	-	-	-	-	-	-	-
Method Blank	-	-	-	-	-	-	-	-
LCS	-	-	0.04	10 ppm	MS030222A	-	-	-
Blank MS	-	-	-	-	-	-	-	-
Blank MSD	-	-	-	-	-	-	-	-
1 064235-005A	1.50	40	-	-	-	50	NS	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
DUP 064235-005A	1.50	40	-	-	-	50	NS	

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

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R30052

Date Read / Digested: 8-13-03

Method (Circle one):		Turb. Calibration		Matrix (Circle one):		Acid Lot #	
1) <u>200.8</u>	100 NTU: <u>10000</u>	1) Drinking Water	4) Soil	Hydrochloric: <u>N/A</u>		Nitric: <u>N/A</u>	
2) 3010A	Std Code: <u>SAL-0022</u>	2) Ground Water	5) Solid				
3) 3050B	Initials: <u>NS</u>	3) Liquid	6) Other <u>water</u>				
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 064235-006A	0.23	5	0.1ml	1 ppm	MST030813G	10	NS	
MSD	0.23	1	1	1				
Method Blank	-	10	-	-				
LCS	-	1	0.1ml	1 ppm	MS030813L			
Blank MS								
Blank MSD								

1	064235-001A	-0.01	10			10	NS	
2	-002A	-0.06						
3	-003A	-0.13						
4	-004A	-0.13						
5	-006A	0.22						
6	-007A	-0.08						
7	-008A	0.04						
8	-009A	0.09						
9	-010A	-0.04						
10	-011A	-0.09						
11	-012A	-0.13						
12	-013A	-0.12						
13	-014A	0.08						
14	-015A	-0.12						
15	-017A	-0.05						
16	-018A	-0.16						
17	-019A	0.12						
18	-020A	-0.06						
19	-021A	-0.01						
20	-022A	0.74						
DUP	064235-006A	-0.03						
	064235-022A	-0.03						

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

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: 130053

Date Read / Digested: 8-13-03

Method (Circle one): Turb. Calibration Matrix (Circle one):  
 1) 200.8 100 NTU: 10 NTU 1) Drinking Water 4) Soil  
 2) 3010A Std Code: SC-0020 2) Ground Water 5) Solid  
 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 064235-016A	-0.04	10	0.10ml	1 ppm	HSP30813G	10	NS	
MSD	I	I	I	I	I	I	I	
Method Blank	-	I	-	-	-	I	I	
LCS	-	I	0.10ml	1 ppm	HSP30813L	I	I	
Blank MS								
Blank MSD								
1 064235-016A	-0.04	10				10	NS	
2 -023A	0.23	I				I	I	
3 -024A	0.30	I				I	I	
4 -025A	0.20	I				I	I	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
DUP 064235-016A	-0.10	10				10	NS	

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

# Advanced Technology Laboratories

# PREP BATCH REPORT

Page: 1 of 1

Prep Start Date: 08/13/2003 12:20:59

Prep End Date: 08/13/2003 7:00:10

Initials/ Date: \_\_\_\_\_

Prep Factor Units:

mL / mL

Prep Batch 14733 Prep Code: 200.8\_PR

Technician: Nancy Sibucuo

Sample ID	Matrix	pH	SampAmt	3 Replicates	Sol Added	Sol Recov	Fin Vol	factor	Clean Up Code	TURB Check
MB-14733	WATER		40	<input type="checkbox"/>	0	0	50	1.250		
LCS-14733	WATER		40	<input type="checkbox"/>	0	0	50	1.250		
064235-005A	Water		40	<input type="checkbox"/>	0	0	50	1.250		
064235-005ADUP	Water		40	<input type="checkbox"/>	0	0	50	1.250		
064235-005AMS	Water		40	<input type="checkbox"/>	0	0	50	1.250		
064235-005AMSD	Water		40	<input type="checkbox"/>	0	0	50	1.250		

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

Number	Reagent Name	LotNo:	Spk-ID	Spike Name	SampType	AmtAdd (ml)
481	HYDROCHLORIC ACID	Y12028	MSP030220A	CHECKMATE STANDARD 1	LCS	0.04
482	nitric acid	y13056	MSP030414Q	CHECKMATE STANDARD 1	MS	0.04



Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Stock Concentration	Amount Taken from Stock
06-05-07	ICPM - 10	HST030605 C	HST030605 B	20 ppb	20 ppb	2.5
	I - 5	D	C	10 ppb	10 ppb	2.5
	I - 0.5	E	D	5 ppb	5 ppb	5
	ICPM - LCS <sub>1</sub>	F	HST021210 HST021210B HST021210C	1000 ppm	1000 ppm	0.05
	I - IAW/ew @ 10	G	HST030605	1 ppm	1 ppm	0.5
06-06-07	ICPMs - Internal Std.	HST030606A	HST030606A	1000 ppm	1000 ppm	1 ml
			B Ge			
			C Tb			
			D Se			
			E In			
			F Tm			
06-05-03	Ag - HS/MSD / 10 ppm	HST030605 A	HST030414L	1000 ppm	1000 ppm	0.5
06-07-03	ICPMs - STD <sub>1</sub>	HST030609 A	HST030462A HST030462B HST030462C	1000 ppm	1000 ppm	5 0.05 5
	I - 20	B	HST030609 A	1 ppm	1 ppm	1
	I - 10	C	B	20 ppb	20 ppb	2.5
	I - 5	D	C	10 ppb	10 ppb	2.5
	I - 0.5	E	D	5 ppb	5 ppb	5
	ICPMs - LCS <sub>1</sub>	F	HST021210 HST021210B HST021210C	1000 ppm	1000 ppm	5 0.05
	I - IAW/ew @ 10	G	HST030609 F	1 ppm	1 ppm	0.5
	ICPMs - 100	H	HST030609 A	1 ppm	1 ppm	5

Metals Working Standard Prep Log

Preparation		Expiration Dates		Comments	Initials
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H <sub>2</sub> O)	Working STD *		
50	10ppb	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	09-03-03		NS
	5ppb				
	0.5ppb				
	1ppm				
	10ppb				
100	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	09-04-03	High Purity	NS
50	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	09-04-03	NS 6-6-03	NS
50	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	09-07-03	NS 6-4-03	NS
50	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	09-07-03		
NS	20ppb				
6.92	10ppb				
	5ppb				
	0.5ppb				
	1ppm				
	10ppb				
	100ppb				

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Stock Concentration	Amount Taken from Stock
7-11-03	ICPMS - 5	MST030711 D	MST030711	10 ppb	10 ppb	25
	I -0.5	E <sup>MST030711</sup>	I	5 ppb	5 ppb	5
	ICPMS - LCS1	F G	MST02116 B MST02116 B	1000 ppm 10 ppm	1000 ppm 10 ppm	0.05 5
	I - IAW/CW @ 10	H	MST030711	1 ppm	1 ppm	0.5
7-15-03	ICPMS Tuning Stock Soln	MST030715 A	MST-010523 E	1000 ppm	1000 ppm	0.5
			MST030414 H	Cu		
			MST030217 J	Rh		
			MST030414 E	Cd		
			MST030414 C	Ba		
			MST03047 G	Ce		
			MST030414 F	Pb		
			MST030414 D	Be		
			MST030414 G	Co		
			MST030217 H	Tl		
			MST030217 I	U		
			MST030217 E	In		
7-16-03	ICPMS Tuning Solution	MST030716 A	MST030715 A	1 ppm	1 ppm	10
			MST030402 A MST030402 B	10 ppm 1000 ppm	10 ppm 1000 ppm	5 0.05
7-16-03	ICPMS - STD	MST030716 B	MST030716 B	1 ppm	1 ppm	1
	I -20	C		20 ppb	20 ppb	25
	I -10	D	I			

Metals Working Standard Prep Log

Preparation			Expiration Dates		Comments	Initials
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H <sub>2</sub> O)	Working STD *	Exp Date		
50	5 ppb	DI H <sub>2</sub> O + HNO <sub>3</sub> 2%	10-09-03		Berman	WS
	0.5 ppb					
	1 ppb					
	10 ppb					
500	1 ppb	DI H <sub>2</sub> O + HNO <sub>3</sub> 2%	10-13-03		Ultra Scientific High Purity	NS
1000	10 ppb	DI H <sub>2</sub> O + HNO <sub>3</sub> 2%	10-14-03		Ultra Scientific High Purity	NS
50	1 ppm				Berman	NS
	4 ppb					
	10 ppb					

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Amount Taken from Stock	
08-11-03	ICPMS - LCS <sub>1</sub>	MST030811E	MST030416A MST030416B MST030408E	1000 ppm 1000 ppm 10 ppm	0.05 0.05	
	I - ICPMS @ 20	F	MST030811E	1 ppm	2.5	
	ICPMS - 400	G	A	1 ppm	20	
	I - 200	H	G	400 ppb	25	
	I - 100	I	H	200 ppb	25	
	ICPMS - ICPMS @ 20	J	E	1 ppm	10	
08-13-03	ICPMS - STD <sub>1</sub>	MST030813G	MST030408A MST030408B	10 ppm 1000 ppm	0.05	
	I - 20	H	MST030813G	1 ppm	1	
	I - 10	I	H	20 ppb	25	
	I - 5	J	I	10 ppb	25	
	I - 0.5	K	J	5 ppb	5	
	ICPMS - LCS <sub>1</sub>	L	MST030416C MST030416B	10 ppm 1000 ppm	0.05	
	I - ICPMS @ 10	M	MST030813L	1 ppm	0.5	
08-12-03	Ag - H <sub>2</sub> /H <sub>2</sub> O / 10 ppm	MST030812A	HSP030414A	1000 ppm	0.5	
	Ag - LCS	B	MSP030407C	I	I	
08-14-03	ICPMS - STD <sub>1</sub>	MST030814A	MST030402A MST030402B	10 ppm 1000 ppm	0.05	
	I - 20	B	MST030814A	1 ppm	1	
	I - 10	C	B	20 ppb	25	
	I - 5	D	C	10 ppb	25	
	I - 0.5	E	D	5 ppb	5	

Metals Working Standard Prep Log

Preparation		Expiration Dates		Comments	Initials	
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H <sub>2</sub> O)	Working STD *			Exp Date
50	1 ppm	DI H <sub>2</sub> O + 27	11-09-03		high purity EN Science	NS
+	50 ppb				German high purity	I
	400 ppb				German high purity	
	20 ppb					
	100 ppb				German EN Science	
	200 ppb				German	
50	1 ppm	DI H <sub>2</sub> O + 27	11-11-03		German	NS
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb				German	
	1 ppm					
	10 ppb					
50	10 ppm	DI H <sub>2</sub> O + 27	11-08-03		German	NS
+	+					
50	1 ppm	DI H <sub>2</sub> O + 27	11-12-03		German	NS
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb					

\* Check working std versus all manufacturer's

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Stock Concentration	Amount Taken from Stock
08-14-03	ICPMS - LCS <sub>1</sub>	HST030814 F	HST021216 D HST021216 B	10 ppm 1000 ppm	5 0.05	
	↓ - IAW/CEU @ 10	↓ C	HST030814 F	1 ppm	0.5	
08-15-03	ICPMS - STD <sub>1</sub>	HST030815 A	HST030402 A	10 ppm	5	
	↓ - 10	↓ B	HST030815 A	1 ppm	0.5	
	↓ - 7.5	↓ C	↓ B	10 ppm	37.5	
	↓ - 5	↓ D	↓ C	7.5 ppm	20	
	ICPMS - LCS <sub>1</sub>	↓ E	HST021216 D	10 ppm	5	
	↓ - IAW/CEU @ 5	↓ F	HST030815 F	1 ppm	0.25	
08-15-03	ICPMS - Internal Standard	HST030815 G	HST030217 A Li	1000 ppm	1 ml	
	↓	↓	↓ B Ge	↓	↓	
	↓	↓	↓ C Tb	↓	↓	
	↓	↓	↓ D Sc	↓	↓	
	↓	↓	↓ E In	↓	↓	
	↓	↓	↓ F Tm	↓	↓	

Metals Working Standard Prep Log

Preparation		Expiration Dates		Comments	Initials
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H <sub>2</sub> O)	Working STD *		
1	50	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	11-12-03		WMS
1	10ppb	↓	11-13-03		↓
50	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>		benen	WMS
1	10ppb	↓			↓
1	7.5ppb	↓			↓
30	5ppb	↓			↓
50	1ppm	↓		benen	↓
1	5ppb	↓			↓
100ml	10ppm	DI H <sub>2</sub> O + 2% HNO <sub>3</sub>	11-13-03	High purity	WMS
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓
1	↓	↓			↓



Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar 91765

Tel: (909)396-7662 Fax: (909)396-1455

# APCL Analytical Report

Service ID #: 801-034445

Collected by:

Collected on: 07/29-31/03

Sample Description: Water

Project Description: JPL

Received: 07/31/03

Extracted: N/A

Tested: N/A

Reported: 08/19/03

## Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				DUPE-2-3-Q03 03-04445-1	EB-1-7-29-03 03-04445-2	EB-3-7-31-03 03-04445-3	MW-3-2 03-04445-4

CHROMIUM (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-3-3 03-04445-5	MW-3-4 03-04445-6	MW-17-2 03-04445-7	MW-17-3 03-04445-8

CHROMIUM (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-17-4 03-04445-9	MW-20-1 03-04445-10	MW-20-2 03-04445-11	MW-20-3 03-04445-12

CHROMIUM (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-20-4 03-04445-13	MW-20-5 03-04445-14	MW-21-1 03-04445-15	MW-21-2 03-04445-16

CHROMIUM (a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-21-3 03-04445-17	MW-21-4 03-04445-18	MW-21-5 03-04445-19

CHROMIUM (a)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

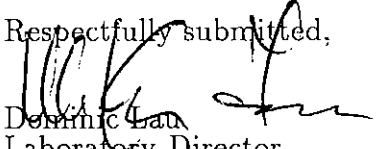
“-”: Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Subcontracted to Advanced Technology Laboratories Inc. See attached.

Respectfully submitted,

  
Dennis Lau  
Laboratory Director  
Applied P & Ch Laboratory



INCORPORATED  
22632 GOLDEN SPRINGS DR., SUITE 270  
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-21 0041

GEOFON LAB COORDINATOR: Brad Shogee  
 LAB COORDINATOR'S PHONE: (909) 396-7662  
 LAB COORDINATOR'S FAX: (909) 396-1455  
 PROJECT NAME: GPL GW mon-3903  
 PROJECT LOCATION: MW-21 (Hahamonga Park)  
 PROJECT PHONE NUMBER: (909) 920-8729  
 PROJECT FAX: (909) 396-1455  
 PROJECT ADDRESS: 4800 Oak Grove Dr  
 CITY, STATE AND ZIP CODE: Pasadena CA.  
 PROJECT MANAGER'S PHONE: (909) 396-7662  
 PROJECT MANAGER'S FAX: (909) 396-1455  
 CLIENT: US Navy SWDOW  
 LABORATORY SERVICE ID: —  
 LABORATORY CONTACT: Kenny Chen  
 LABORATORY PHONE: (909) 590-1028  
 LABORATORY FAX: (909) 590-1455  
 LABORATORY ADDRESS: 13760 Maryland Ave  
 CITY, STATE AND ZIP CODE: Chino CA 91710  
 RECIPIENT NAME: Tony Ford  
 ADDRESS: 22632 Golden Springs Dr #270  
 CITY, STATE AND ZIP CODE: Diamond Bar, CA 91765

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses			Comments
									HCl	HNO3	None	
1	MW-21-5	H2O	7/29/03	1149	34141	III	Normal	C	X	X	X	
2	MW-21-4			1221					X	X	X	
3	MW-21-3			1250					X	X	X	
4	MW-21-2			1327					X	X	X	
5	MW-21-1			1355					X	X	X	
6												
7	TB-1-7-29-03	H2O	7/29/03	—	HCl 3	III	Normal	X				
8	EB-1-7-29-03			1230	None HNO3 34141				X	X	X	
9												
10												

4415

SAMPLES COLLECTED BY: Leo W. Williamson  
 COURIER AND AIR BILL NUMBER:  
 REINVOICED BY:  
 RECEIVED BY: S. B...  
 DATE: 7/29/03  
 TIME: 1:33  
 COOLER TEMPERATURE UPON RECEIPT:  
 SAMPLE'S CONDITION UPON RECEIPT:

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager



CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

INCORPORATED  
22632 GOLDEN SPRINGS DR., SUITE 270  
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

MW-3 0043

GEOFON LAB COORDINATOR <b>Brad Shojaee</b>	LAB COORDINATOR'S PHONE <b>(909) 396-7662</b>	LAB COORDINATOR'S FAX <b>(909) 396-1455</b>	LABORATORY SERVICE ID —	LABORATORY CONTACT <b>Kenny Chan</b>	MAIL REPORT (COMPANY NAME) <b>GEOFON INC.</b>
PROJECT NAME <b>TR 4W MON-3903</b>	PROJECT LOCATION <b>MW-3 (Settling Ponds)</b>	PROJECT PHONE NUMBER <b>(714) 520-8729</b>	LABORATORY PHONE <b>(909) 590-1828</b>	LABORATORY FAX <b>(909) 590-1498</b>	RECIPIENT NAME <b>Tony Ford</b>
PROJECT CONTACT <b>J. Robinson</b>	CITY, STATE AND ZIP CODE <b>Pasadena, CA.</b>	CLIENT <b>US NAVY SNOLV</b>	LABORATORY ADDRESS <b>13760 Magnolia Ave.</b>	CITY, STATE AND ZIP CODE <b>Chino, CA.</b>	ADDRESS <b>22632 Golden Springs Dr #270</b>
PROJECT ADDRESS <b>4800 Oak Grove Dr.</b>	PROJECT MANAGER'S PHONE <b>(909) 396-7662</b>	PROJECT MANAGER'S FAX <b>(909) 396-1455</b>	CITY, STATE AND ZIP CODE <b>Diamond Bar, CA 91765</b>		

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses			Comments
									5242 (VOCs)	3141D (Recl. Lead)	1196 (Hex Chrome)	
1	MW-3-4	H <sub>2</sub> O	7/30/03	1005	Hel H <sub>2</sub> O NONE	3141	TR	NORMAL	X	X	X	
2	MW-3-3			1026					X	X	X	
3	MW-3-2			1040					X	X	X	
4												
5												
6												
7												
8												
9												
10												

1115

SAMPLES COLLECTED BY: <b>Law. Williamson</b>	COURIER AND AIR BILL NUMBER:	RECEIVED BY: <b>Steve Lewis</b>	DATE: <b>7-30-03</b>	TIME: <b>12:57</b>	COOLER TEMPERATURE UPON RECEIPT:
REINOLISHED BY: <b>G. Williams</b>			DATE: <b>7-30-03</b>	TIME: <b>12:14</b>	SAMPLE'S CONDITION UPON RECEIPT:

Distribution: White - Laboratory (To be returned with Analytical Report); Goldendrod - Project File; Yellow - Project Data Manager



CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

22632 GOLDEN SPRINGS DR., SUITE 270  
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

MW-17 0044

GEOFON LAB COORDINATOR: **Brad Shogae** LAB COORDINATOR'S PHONE: **(909) 396-7662** LAB COORDINATOR'S FAX: **(909) 396-1455** LABORATORY SERVICE ID: **—** LABORATORY CONTACT: **Kenny Chen** MAIL REPORT (COMPANY NAME): **GEOFON, INC.**

PROJECT NAME: **TRC by Mon-3903** PROJECT LOCATION: **MW-17 (Harriet & Castles)** PROJECT NUMBER: **04-442810** LABORATORY PHONE: **(909) 590-1826** LABORATORY FAX: **(909) 396-1498** RECIPIENT NAME: **Tony Ford**

PROJECT CONTACT: **J. Robinson** PROJECT PHONE NUMBER: **(714) 920-8729** PROJECT FAX: **(909) 396-1455** LABORATORY ADDRESS: **13760 Magnolia Ave.** ADDRESS: **22632 Golden Springs Dr. #270**

PROJECT ADDRESS: **4800 Oak Grove Dr.** CITY, STATE AND ZIP CODE: **Pasadena, CA** CLIENT: **VS NACT Swdir** CITY, STATE AND ZIP CODE: **Arroyo, CA** CITY, STATE AND ZIP CODE: **Diamond Bar, CA 91765**

PROJECT MANAGER: **Astrac Faheem** PROJECT MANAGER'S PHONE: **(909) 396-7662** PROJECT MANAGER'S FAX: **(909) 396-1455**

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses			Comments
									HCl	HM09	None	
1	MW-17-4	H <sub>2</sub> O	7/31/03	1128	None	31+1	III	Normal	X	X	X	
2	MW-17-3		7/31/03	1159					X	X	X	
3	MW-17-2		7/25						X	X	X	
4												
5												
6												
7												
8												
9												
10												

1115

SAMPLES COLLECTED BY: **Lee W. Williamson** COURIER AND AIR BILL NUMBER: **—** COOLER TEMPERATURE UPON RECEIPT: **—**  
 RELINQUISHED BY: **S. D. [Signature]** RECEIVED BY: **S. D. [Signature]** SAMPLE'S CONDITION UPON RECEIPT: **—**  
 DATE: **7-30-03** TIME: **11:57**  
 DATE: **7-30-03** TIME: **11:25**

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager



INCORPORATED  
22632 GOLDEN SPRINGS DR., SUITE 270  
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-20

0045

GEORGE'S LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Brad Shojaee

(909) 396-7662

(909) 396-1455

-

Kenny Chan

GEOFON INC.

PROJECT NAME: 572 4th Mon. 3003

PROJECT LOCATION: MW-20(Linda & Mt. View)

PROJECT NUMBER: 04-442810

LABORATORY PHONE: (909) 570-1828

LABORATORY FAX: (909) 570-1498

RECIPIENT NAME: Tony Ford

J. Robinson

(714) 920-8729

(909) 396-1455

LABORATORY ADDRESS: 13760 Magnolia Ave

CITY, STATE AND ZIP CODE: Chino, CA 91710

ADDRESS: 2632 Golden Springs Dr. #270

PROJECT ADDRESS: 4800 Oak Grove Dr.

CITY, STATE AND ZIP CODE: Pasadena, CA

CLIENT: US NAVY Snowfl

LABORATORY ADDRESS: 13760 Magnolia Ave

CITY, STATE AND ZIP CODE: Chino, CA 91710

CITY, STATE AND ZIP CODE: Diamond Bar, CA, 91765

PROJECT MANAGER: Asrar Fakhem

PROJECT MANAGER'S PHONE: (909) 396-7662

PROJECT MANAGER'S FAX: (909) 396-1455

LABORATORY ADDRESS: 13760 Magnolia Ave

CITY, STATE AND ZIP CODE: Chino, CA 91710

CITY, STATE AND ZIP CODE: Diamond Bar, CA, 91765

Item	Sample Identifier	Matrix	Date	Time	HCl MNO <sub>3</sub> None	Preserved	# of Cont.	QC Level	T.A.T	Analyses	Comments		
											3/4/1	III	Normal
1	MW-20-5	H <sub>2</sub> O	7/31/03	0832	None			III	Normal	X	X	X	
2	MW-20-4			0935						X	X	X	2nd MS/HSD
3	MW-20-3			1113						X	X	X	4445
4	MW-20-2			1209						X	X	X	
5	MW-20-1			1230						X	X	X	3/4 O-THEC bottle 3/4 full
6	HSD-20-2			1138				VI		X	X	X	
7	MW-20-3-003			-				III		X			
8	EB-3-7-31-03			0849				V		X	X	X	
9										X			
10										X			

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

DATE: 7-31-03

TIME: 17:55

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY: Leo W. Williamson

RECEIVED BY: S. Fakhem

DATE: 7-31-03

TIME: 17:55

SAMPLE'S CONDITION UPON RECEIPT

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

**Applied P & Ch Laboratories**

**Project: #4445, JPL**

**ATL Work Order: 064234**

0001



*Advanced Technology  
Laboratories*

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

## Table of Contents

ATL Work Order: 064234

Item	Pages
Cover Letter	0001 - 0004
Sample Receiving Items	0005 - 0008
Analytical Result Reports	0009 - 0027
Quality Control Reports	0028 - 0030
Raw Data:	
Method 200.8	0031 - 0138

0002



## Advanced Technology Laboratories

Date: 19-Aug-03

CLIENT: Applied P & Ch Laboratories

Project: #4445, JPL

Lab Order: 064234

## CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.





# Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710  
Tel: (909) 590-1828 Fax: (909) 590-1498

# Subcontract Chain of Custody

Please Print in pen Page 1 of 2

Subcontract Lab: ATL Contact: Ravi Tel #: (562) 989-4045 Fax #: (562) 989-4040  
 Address: 3275 Walnut Ave City: Signal Hill State: CA Zip code: 90807  
 APCL Client: #4445 APCL Contact: Kenny Chan  
 Project Name/Code: JPL Job #  
 BILL TO APCL Sub Quotation #

Due Date:  Regular  Rush: \_\_\_ days \_\_\_ hours Sampled by: J. Robinson

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis	Items	White - With report Yellow - Lab copy Pink - Originator	Remarks
MW-21-5		7/21/03 1149			1				
MW-21-4		1221							
MW-21-3		1250							
MW-21-2		1327							
MW-21-1		1355							
FB-1-7-29-03		1230							
MW-3-4		7/29/03 1005							Level 4 pkg TEPP
MW-3-3		1026							
MW-3-2		1040							
MW-7-4		1128							
MW-17-3		1164							
MW-17-2		1215							
MW-20-5		7/31/03 0832			2				
MW-20-4		0935							
MW-20-3		1113			1				← M9/M10

QC Requirement:  Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data  CLP;  ACE  AFCEE  NEBSA \_\_\_ (E, C or D);  Other \_\_\_ (Please specify)

Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions:  Intact;  Broken. Cooler Seal:  Intact;  Broken;  None. Tag # \_\_\_ Temperature:  Room  Cold (\_\_\_ °C)

Relinquished by John Flippin Date/Time 8/11/03 17:00 Received by John Flippin Date/Time 8/12/03 11300  
 Relinquished by John Flippin Date/Time 8/12/03 1445 Received by John Flippin Date/Time 8/12/03 1445

**APCL USE ONLY** Service #

Note: \_\_\_\_\_

Client understands that all terms described in the proposal, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.



**CLIENT:** Applied P & Ch Laboratories**Project:** #4445, JPL**Lab Order:** 064234**Contract No:****Work Order Sample Summary**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>	<b>Date Reported</b>
064234-001A	MW-21-5	Water	7/29/2003	8/12/2003	8/19/2003
064234-002A	MW-21-4	Water	7/29/2003	8/12/2003	8/19/2003
064234-003A	MW-21-3	Water	7/29/2003	8/12/2003	8/19/2003
064234-004A	MW-21-2	Water	7/29/2003	8/12/2003	8/19/2003
064234-005A	MW-21-1	Water	7/29/2003	8/12/2003	8/19/2003
064234-006A	EB-1-7-29-03	Water	7/29/2003	8/12/2003	8/19/2003
064234-007A	MW-3-4	Water	7/30/2003	8/12/2003	8/19/2003
064234-008A	MW-3-3	Water	7/30/2003	8/12/2003	8/19/2003
064234-009A	MW-3-2	Water	7/30/2003	8/12/2003	8/19/2003
064234-010A	MW-17-4	Water	7/30/2003	8/12/2003	8/19/2003
064234-011A	MW-17-3	Water	7/30/2003	8/12/2003	8/19/2003
064234-012A	MW-17-2	Water	7/30/2003	8/12/2003	8/19/2003
064234-013A	MW-20-5	Water	7/31/2003	8/12/2003	8/19/2003
064234-014A	MW-20-4	Water	7/31/2003	8/12/2003	8/19/2003
064234-015A	MW-20-3	Water	7/31/2003	8/12/2003	8/19/2003
064234-016A	MW-20-2	Water	7/31/2003	8/12/2003	8/19/2003
064234-017A	MW-20-1	Water	7/31/2003	8/12/2003	8/19/2003
064234-018A	Dupe-2-3-Q03	Water	7/31/2003	8/12/2003	8/19/2003
064234-019A	EB-3-7-31-03	Water	7/31/2003	8/12/2003	8/19/2003



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-001A

**Client Sample ID:** MW-21-5  
**Tag Number:**  
**Collection Date:** 7/29/2003 11:49:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

2.9

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

Page 1 of 19

Results are wet unless otherwise specified

0009



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-002A

**Client Sample ID:** MW-21-4  
**Tag Number:**  
**Collection Date:** 7/29/2003 12:21:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

4.0

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceed holding time

Page 2 of 19

Results are wet unless otherwise specified

0010



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-003A

**Client Sample ID:** MW-21-3  
**Tag Number:**  
**Collection Date:** 7/29/2003 12:50:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

3.7

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

Page 3 of 19

Results are wet unless otherwise specified

0011



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-004A

**Client Sample ID:** MW-21-2  
**Tag Number:**  
**Collection Date:** 7/29/2003 1:27:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

4.2

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceed holding time

Page 4 of 19

Results are wet unless otherwise specified

0012



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-005A

**Client Sample ID:** MW-21-1  
**Tag Number:**  
**Collection Date:** 7/29/2003 1:55:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

**ICP-MS METALS**

**EPA 200.8**

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

3.8

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceed holding time

Page 5 of 19

Results are wet unless otherwise specified

0013





# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-006A

**Client Sample ID:** EB-1-7-29-03  
**Tag Number:**  
**Collection Date:** 7/29/2003 12:30:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

ND

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

Page 6 of 19

Results are wet unless otherwise specified

0014



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-007A

**Client Sample ID:** MW-3-4  
**Tag Number:**  
**Collection Date:** 7/30/2003 10:05:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

1.8

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0015



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-008A

**Client Sample ID:** MW-3-3  
**Tag Number:**  
**Collection Date:** 7/30/2003 10:26:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

2.0

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0016



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-009A

**Client Sample ID:** MW-3-2  
**Tag Number:**  
**Collection Date:** 7/30/2003 10:40:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

2.4

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0017



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-010A

**Client Sample ID:** MW-17-4  
**Tag Number:**  
**Collection Date:** 7/30/2003 11:28:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

1.9

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceed holding time

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Results are wet unless otherwise specified

0018



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-011A

**Client Sample ID:** MW-17-3  
**Tag Number:**  
**Collection Date:** 7/30/2003 11:54:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

4.0

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0019



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-012A

**Client Sample ID:** MW-17-2  
**Tag Number:**  
**Collection Date:** 7/30/2003 12:15:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

2.6

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceed holding time

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Results are wet unless otherwise specified

0020



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-013A

**Client Sample ID:** MW-20-5  
**Tag Number:**  
**Collection Date:** 7/31/2003 8:32:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

1.6

0.11

1.0

µg/L

1

8/13/2003

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0021





# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-014A

**Client Sample ID:** MW-20-4  
**Tag Number:**  
**Collection Date:** 7/31/2003 9:35:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

1.9

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceed holding time

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Results are wet unless otherwise specified

0022



# Advanced Technology Laboratories

Date: 19-Aug-03

CLIENT: Applied P & Ch Laboratories  
Lab Order: 064234  
Project: #4445, JPL  
Lab ID: 064234-015A

Client Sample ID: MW-20-3  
Tag Number:  
Collection Date: 7/31/2003 11:13:00 AM  
Matrix: WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

4.0

0.11

1.0

µg/L

1

8/13/2003

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceed holding time

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Results are wet unless otherwise specified

0023



**Advanced Technology Laboratories**

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-016A

**Client Sample ID:** MW-20-2  
**Tag Number:**  
**Collection Date:** 7/31/2003 12:03:00 PM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
<b>ICP-MS METALS</b>			<b>EPA 200.8</b>			<b>Analyst: NS</b>	
RunID: ICP4_030813A	QC Batch: R30051		PrepDate:				
Chromium	1.5		0.11	1.0	µg/L	1	8/13/2003

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
\* - Value exceeds Maximum Contaminant Level      H-Samples exceed holding time

Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-017A

**Client Sample ID:** MW-20-1  
**Tag Number:**  
**Collection Date:** 7/31/2003 12:30:00 PM  
**Matrix:** WATER

---

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

---

**ICP-MS METALS**

**EPA 200.8**

**Analyst: NS**

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

1.8

0.11

1.0

µg/L

1

8/13/2003

---

**Qualifiers:**

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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Results are wet unless otherwise specified

0025



**Advanced Technology Laboratories**

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-018A

**Client Sample ID:** Dupe-2-3-Q03  
**Tag Number:**  
**Collection Date:** 7/31/2003 11:38:00 AM  
**Matrix:** WATER

---

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

---

**ICP-MS METALS**

**EPA 200.8**

**Analyst: NS**

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium	4.0		0.11	1.0	µg/L	1	8/13/2003
----------	-----	--	------	-----	------	---	-----------

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<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H-Samples exceed holding time

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Results are wet unless otherwise specified

0026



# Advanced Technology Laboratories

Date: 19-Aug-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 064234  
**Project:** #4445, JPL  
**Lab ID:** 064234-019A

**Client Sample ID:** EB-3-7-31-03  
**Tag Number:**  
**Collection Date:** 7/31/2003 8:49:00 AM  
**Matrix:** WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-----	-------	----	---------------

## ICP-MS METALS

EPA 200.8

Analyst: NS

RunID: ICP4\_030813A

QC Batch: R30051

PrepDate:

Chromium

0.2

J

0.11

1.0

µg/L

1

8/13/2003

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Samples exceed holding time

Page 19 of 19

Results are wet unless otherwise specified

0027





Advanced Technology Laboratories

Date: 19-Aug-03

Advanced Technology Laboratories

CLIENT: Applied P & Ch Laboratories  
Work Order: 064234  
Project: #4445, JPL

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_W

Sample ID: MB-R30051	Sample Type: MBLK	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: ZZZZZ	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450953						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.115	1.0									J

Sample ID: LCS-R30051	Sample Type: LCS	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: ZZZZZ	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.976	1.0	10	0	99.8	85	115	0	0	0	

Sample ID: 064234-014AMS	Sample Type: MS	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: MW-20-4	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.889	1.0	10	1.896	79.9	80	120	0	0	0	S

Sample ID: 064234-014MSD	Sample Type: MSD	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: MW-20-4	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10	1.0	10	1.896	81	80	120	9.889	1.13	20	

Sample ID: 064234-010ADUP	Sample Type: DUP	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: MW-17-4	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450954						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.831	1.0	0	0	0	0	0	1.919	4.69	30	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values

0028



**CLIENT:** Applied P & Ch Laboratories  
**Work Order:** 064234  
**Project:** #4445, JPL

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_W

Sample ID: 064234-014ADUP	SampType: DUP	TestCode: 200.8_W	Units: µg/L	Prep Date:	Run ID: ICP4_030813A						
Client ID: MW-20-4	Batch ID: R30051	TestNo: EPA 200.8		Analysis Date: 8/13/2003	SeqNo: 450981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium      2.085      1.0      0      0      0      0      0      1.896      9.50      30

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      DO- Surrogate dilute out  
 J - Analyte detected below quantitation limits      B - Analyte detected in the associated Method Blank      H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits      Calculations are based on raw values

0029



Test Code: 200.8\_W

Test Number: EPA 200.8

Test Name: ICPMS METALS

Matrix: Aqueous Units: µg/L

**METHOD DETECTION /  
REPORTING LIMITS**

Updated: 13-Feb-03

Type	Analyte	MDL	PQL
A	Aluminum	1.66	10
A	Antimony	0.0309	0.5
A	Arsenic	0.0309	1
A	Barium	0.0638	1
A	Beryllium	0.0349	0.5
A	Cadmium	0.0319	0.5
A	Calcium	10.5	50
A	Chromium	0.111	0.5
A	Cobalt	0.0353	0.5
A	Copper	0.0785	1
A	Iron	4.73	10
A	Lead	0.134	1
A	Magnesium	7.09	50
A	Manganese	0.216	1
A	Mercury	0.467	1
A	Molybdenum	0.0409	0.5
A	Nickel	0.0711	1
A	Potassium	8.66	50
A	Selenium	0.188	0.5
A	Silver	0.0377	0.5
A	Sodium	9.70	50
A	Thallium	0.0304	0.5
A	Tin	5.00	10
A	Vanadium	0.0606	1
A	Zinc	3.34	10



# **Method 200.8**

# Sample/Batch Report

User Name: Nancy  
 Computer Name: ICPMS PE 6100  
 Sample File: D:\ELAN\Sample\2003\August\081303.sam  
 Report Date/Time: Wednesday, August 13, 2003 16:23:58

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	> R30051						
10		LCS							
11		064234-001A							
12		064234-002A							
13		064234-003A							
14		064234-004A							
15		064234-005A							
16		064234-006A							
17		064234-007A							
18		064234-008A							
7		CCV							
8		CCB							
19		064234-009A							
20		064234-010A							
21		064234-010ADUP							
22		064234-011A							
23		064234-012A							
24		064234-013A							
25		064234-014A							
26		064234-014ADUP							
27		064234-014AMS							
28		064234-014AMSD							
7		CCV							
8		CCB							
29		064234-015A							
30		064234-016A							
31		064234-017A							
32		064234-018A							
33		064234-019A							
7		CCV							
8		CCB							
34		MB-	> R30052						
35		LCS-							
36		064235-001A							
37		064235-002A							
38		064235-003A							
39		064235-004A							
40		064235-006A							
41		064235-006ADUP							
42		064235-006AMS							
43		064235-006AMSD							
7		CCV							
8		CCB							
44		064235-007A							
45		064235-008A							
46		064235-009A							
47		064235-010A							

CAL: MST030813 H/20  
           I/10  
           J/5  
           K/0.5

IW/CW: MST030813 M

LCS: MST030813 L

LCS/MSD: MST030813 G

ICP4  
 MS, 8/13/03

0032

48	064235-011A
49	064235-012A
50	064235-013A
51	064235-014A
52	064235-015A
53	064235-017A
7	CCV
8	CCB
54	064235-018A
55	064235-019A
56	064235-020A
57	064235-021A
58	064235-022A
59	064235-022ADUP
7	CCV
8	CCB
60	MB- > R30053
61	LCS-
62	064235-016A
63	064235-016ADUP
64	064235-016AMS
65	064235-016AMSD
66	064235-023A
67	064235-024A
68	064235-025A
7	CCV
8	CCB
69	064235-006AMSD
70	064235-006AMS 2X
71	064235-006AMSD 2X
7	CCV
8	CCB

ELAN Instrument Control Session

File Edit Analysis Options Window Help



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

Timing  
  Processing  
  Equations  
  Calibration  
  Sampling  
  Data

Sweeps / Reading:       Est. Reading Time: 0:00:29.175  
 Readings / Replicate:       Est. Replicate Time: 0:00:29.175  
 Replicates:       Est. Sample Time: 0:02:49.050  
 Tuning File:       Select...  
 Optimization File:       Select...       Enable Shortcuts

	Analyte (s)	Begin Mass (amu)	End Mass (amu)	Scan Mode (s)	MC Channels	Dwell Time per AMU (ms)	Int. (mV)
1		5	10	Scanning	20	20	4000
2		22	26	Scanning	20	20	2500
3		102	104	Scanning	20	20	2100
4		139	141	Scanning	20	20	2100
5		206	209	Scanning	20	20	2500

Tuning - D:\ELAN\TUNING\2003\August\030813.tun

Time/Mass Spec       Peak Width Only  
 Peak Search Window (amu):       Resolution DAC:       for Analyte:

	Analyte	Mass (amu)	Measured Mass (amu)	Mass Calibration DAC Value	Resolution DAC Value	Meas. Width
1	Be	9.0122	8.976	2046	2040	0.797
2	Mg	23.985	23.9785	5690	2020	0.770
3	Rh	102.905	102.879	24961	1955	0.770
4	Ce	139.905	139.878	33971	2010	0.770
5	Pb	207.977	207.979	50441	2270	0.770
6	U	238.05	238.025	57652	2435	0.770

## Instrument Tuning Report

File Name: 030813.tun  
File Path: D:\ELAN\TUNING\2003\August

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.976	2046	2040	0.727	
Mg	23.985	23.979	5690	2020	0.726	
Rh	102.905	102.879	24961	1955	0.772	
Ce	139.905	139.878	33971	2010	0.787	
Pb	207.977	207.979	50441	2270	0.756	
U	238.050	238.025	57652	2435	0.770	

## Daily Performance Report

Sample ID: 030813-daily

Sample Date/Time: Wednesday, August 13, 2003 12:03:12

Sample Description:

Method File: c:\elandata\Method\Daily.mth

Dataset File: d:\elan\daily performance\2003\august\030813-daily.009

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		64316.1		64316.059		418.219		0.7
Rh	102.9		212269.0		212268.959		1793.626		0.8
In	114.9		269583.1		269583.075		2872.000		1.1
Pb	208.0		101219.1		101219.064		1672.944		1.7
[> Ba	137.9		199027.9		199027.860		2714.614		1.4
[ Ba++	69.0		4649.0		0.023		0.000		0.8
[> Ce	139.9		243147.3		243147.305		2781.064		1.1
[ CeO	155.9		7245.1		0.030		0.000		1.0
Bkgd	220.0		5.2		5.167		0.943		18.2

### Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
6.00	Lens Voltage
1100.00	ICP RF Power
-1875.00	Analog Stage Voltage
2000.00	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	6.0	5741.8
Co	59	9	6.5	101484.9
In	115	9	7.0	218284.7

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 12:46:30

Dataset File: D:\ELAN\Dataset\2003\August\081303\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		139893	0.5		ug/L	%
Ge	72		130073	0.5		ug/L	%
[> Sc-1	45		583761	0.5		ug/L	%
[ Cr	52		9324	2.0		ug/L	%
In	115		1182963	0.6		ug/L	%
Tb	159		1290637	1.1		ug/L	%
Sc	45		583761	0.5		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 12:48:59

Dataset File: D:\ELAN\Dataset\2003\August\081303\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	139893	140715	0.9		ug/L	%
Ge	72	130073	132314	1.0		ug/L	%
[> Sc-1	45	583761	589315	0.2		ug/L	%
[ Cr	52	9324	15965	0.6	0.500	0.009 ug/L	1.8 %
In	115	1182963	1204942	0.5		ug/L	%
Tb	159	1290637	1320341	1.4		ug/L	%
Sc	45	583761	589315	0.2		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 12:51:43

Dataset File: D:\ELAN\Dataset\2003\August\081303\Standard 2.003

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	141987	0.3		ug/L	%
Ge	72	130073	131945	0.5		ug/L	%
[> Sc-1	45	583761	595976	0.5		ug/L	%
[ Cr	52	9324	57027	0.8	4.981	0.045 ug/L	0.9 %
In	115	1182963	1200853	0.7		ug/L	%
Tb	159	1290637	1329180	1.3		ug/L	%
Sc	45	583761	595976	0.5		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 12:54:29

Dataset File: D:\ELAN\Dataset\2003\August\081303\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	139893	140026	0.9		ug/L	%
Ge	72	130073	130392	0.5		ug/L	%
[> Sc-1	45	583761	584576	1.0		ug/L	%
[ Cr	52	9324	100767	0.9	9.953	0.051 ug/L	0.5 %
In	115	1182963	1198973	1.4		ug/L	%
Tb	159	1290637	1308854	0.7		ug/L	%
Sc	45	583761	584576	1.0		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 12:57:16

Dataset File: D:\ELAN\Dataset\2003\August\081303\Standard 4.005

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

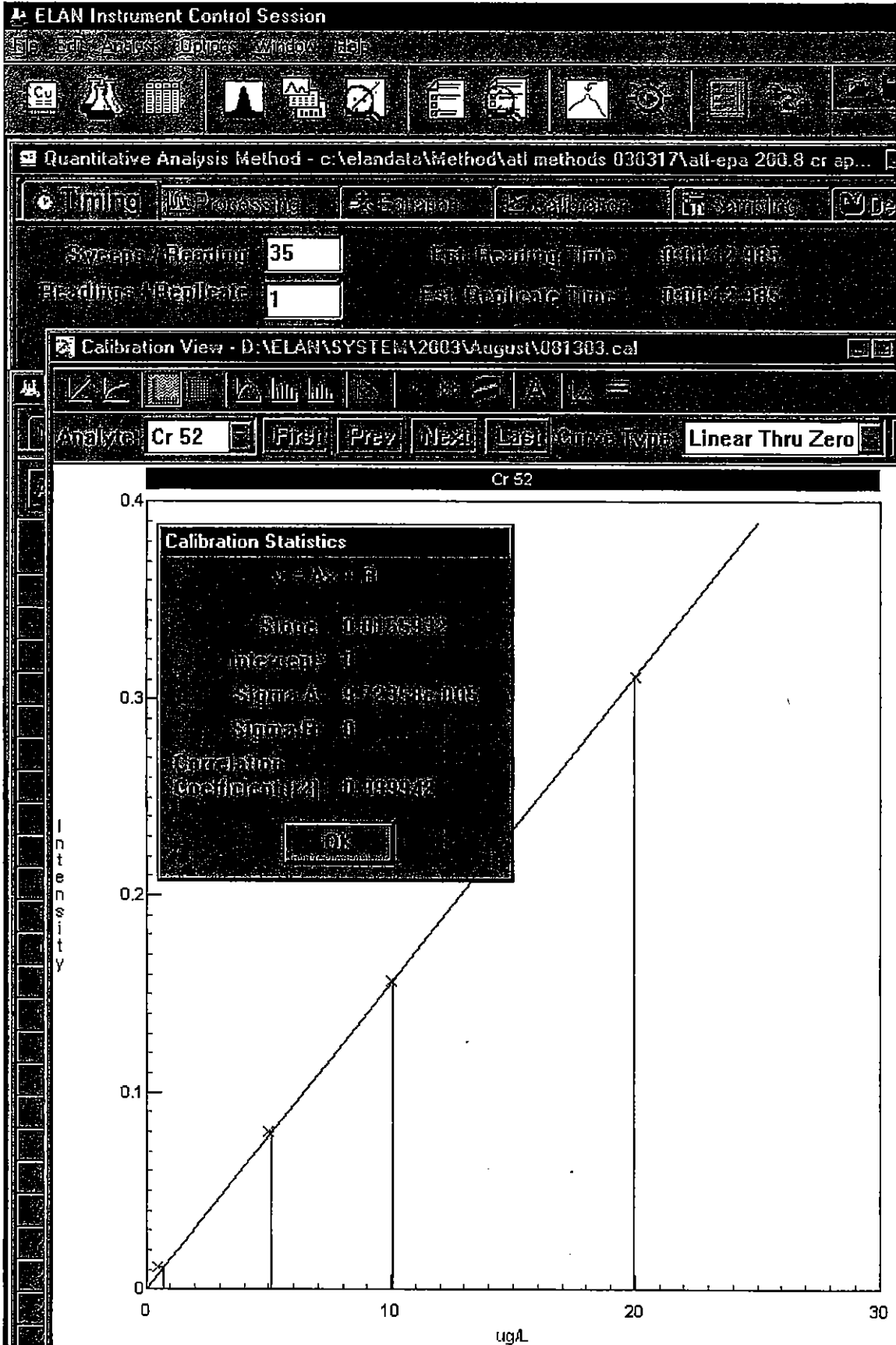
Number of Replicates: 3

Sample ID: Standard 4

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141562	0.9		ug/L	%
Ge	72	130073	130333	1.4		ug/L	%
Sc-1	45	583761	585727	0.6		ug/L	%
Cr	52	9324	191573	0.1	19.951	0.121 ug/L	0.6 %
In	115	1182963	1197170	1.3		ug/L	%
Tb	159	1290637	1307883	0.5		ug/L	%
Sc	45	583761	585727	0.6		ug/L	%



# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:00:04

Dataset File: D:\ELAN\Dataset\2003\August\081303\ICV.006

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	139028	1.6			ug/L	%
Ge	72	130073	130100	1.5			ug/L	%
[> Sc-1	45	583761	585616	1.4			ug/L	%
[ Cr	52	9324	99853	0.9	9.911	0.083	ug/L	0.8%
In	115	1182963	1186335	1.8			ug/L	%
Tb	159	1290637	1309122	1.6			ug/L	%
Sc	45	583761	585616	1.4			ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:02:35

Dataset File: D:\ELAN\Dataset\2003\August\081303\ICB.007

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	139819	1.8		ug/L	%
Ge	72	130073	129669	0.9		ug/L	%
[> Sc-1	45	583761	584295	1.3		ug/L	%
[ Cr	52	9324	10258	0.9	0.102	0.006 ug/L	5.9%
In	115	1182963	1188846	0.6		ug/L	%
Tb	159	1290637	1299568	1.1		ug/L	%
Sc	45	583761	584295	1.3		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:07:22

Dataset File: D:\ELAN\Dataset\2003\August\081303\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 - 030057 NS 8-13-03

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	138249	0.3		ug/L	%
Ge	72	130073	128576	0.8		ug/L	%
[> Sc-1	45	583761	579250	0.9		ug/L	%
[ Cr	52	9324	10288	0.2	0.115	0.011 ug/L	9.6 %
In	115	1182963	1178717	0.7		ug/L	%
Tb	159	1290637	1296486	0.6		ug/L	%
Sc	45	583761	579250	0.9		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:09:50

Dataset File: D:\ELAN\Dataset\2003\August\081303\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 - R 30051 NS 8-13-03

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	140394	1.1		ug/L	%
Ge	72	130073	129940	0.2		ug/L	%
[> Sc-1	45	583761	579846	0.3		ug/L	%
[ Cr	52	9324	99461	0.3	9.976	0.061 ug/L	0.6 %
In	115	1182963	1182728	0.5		ug/L	%
Tb	159	1290637	1287060	0.3		ug/L	%
Sc	45	583761	579846	0.3		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:14:14

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-001A.010

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-001A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141067	1.3		ug/L	%
Ge	72	130073	132491	0.9		ug/L	%
Sc-1	45	583761	703103	0.7		ug/L	%
Cr	52	9324	43545	2.3	2.947	0.081 ug/L	2.7 %
In	115	1182963	1177958	0.8		ug/L	%
Tb	159	1290637	1299142	1.3		ug/L	%
Sc	45	583761	703103	0.7		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:16:43

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-002A.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: 064234-002A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	139361	0.9		ug/L	%
Ge	72	130073	125545	0.2		ug/L	%
[> Sc-1	45	583761	668646	1.4		ug/L	%
[ Cr	52	9324	52353	0.3	3.997	0.059 ug/L	1.5 %
In	115	1182963	1131688	0.4		ug/L	%
Tb	159	1290637	1253191	0.5		ug/L	%
Sc	45	583761	668646	1.4		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:19:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-003A.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: 064234-003A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	137522	0.6		ug/L	%
Ge	72	130073	119361	0.9		ug/L	%
Sc-1	45	583761	651279	0.5		ug/L	%
Cr	52	9324	47668	0.7	3.669	0.022 ug/L	0.6 %
In	115	1182963	1080590	0.9		ug/L	%
Tb	159	1290637	1208498	0.8		ug/L	%
Sc	45	583761	651279	0.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:21:42

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-004A.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: 064234-004A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	139234	0.5		ug/L	%
Ge	72	130073	115085	0.3		ug/L	%
[> Sc-1	45	583761	632763	0.3		ug/L	%
[ Cr	52	9324	52795	1.3	4.326	0.060 ug/L	1.4 %
In	115	1182963	1057815	0.6		ug/L	%
Tb	159	1290637	1176152	0.8		ug/L	%
Sc	45	583761	632763	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:24:13

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-005A.014

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-005A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	135816	0.6		ug/L	%
Ge	72	130073	111927	0.5		ug/L	%
[> Sc-1	45	583761	653270	0.4		ug/L	%
[ Cr	52	9324	49093	1.2	3.795	0.072 ug/L	1.9 %
In	115	1182963	1027607	0.8		ug/L	%
Tb	159	1290637	1160962	1.2		ug/L	%
Sc	45	583761	653270	0.4		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:26:44

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-006A.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: 064234-006A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	135803	0.2		ug/L	%
Ge	72	130073	111792	0.5		ug/L	%
[> Sc-1	45	583761	504940	0.5		ug/L	%
[ Cr	52	9324	6695	3.9	-0.174	0.031 ug/L	17.8 %
In	115	1182963	1036676	0.4		ug/L	%
Tb	159	1290637	1172998	0.2		ug/L	%
Sc	45	583761	504940	0.5		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:29:15

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-007A.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: 064234-007A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	143659	0.6		ug/L	%
Ge	72	130073	118797	1.1		ug/L	%
[> Sc-1	45	583761	580156	0.6		ug/L	%
[ Cr	52	9324	25930	1.4	1.842	0.032 ug/L	1.7 %
In	115	1182963	1072872	0.9		ug/L	%
Tb	159	1290637	1206247	1.3		ug/L	%
Sc	45	583761	580156	0.6		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:31:47

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-008A.017

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-008A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	142540	0.4		ug/L	%
Ge	72	130073	119413	0.7		ug/L	%
[> Sc-1	45	583761	592207	0.3		ug/L	%
[ Cr	52	9324	27664	0.2	1.971	0.012 ug/L	0.6 %
In	115	1182963	1085109	1.3		ug/L	%
Tb	159	1290637	1215068	1.2		ug/L	%
Sc	45	583761	592207	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:34:20

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.018

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	135018	1.2		ug/L	%
Ge	72	130073	110158	1.1		ug/L	%
[> Sc-1	45	583761	504124	0.4		ug/L	%
[ Cr	52	9324	83312	1.3	9.574	0.090 ug/L	0.9 %
In	115	1182963	1037419	1.0		ug/L	%
Tb	159	1290637	1171884	1.2		ug/L	%
Sc	45	583761	504124	0.4		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:36:55

Dataset File: D:\ELAN\Dataset\2003\August\081303\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	139893	134960	1.2		ug/L	%
Ge	72	130073	109521	0.5		ug/L	%
[> Sc-1	45	583761	506761	1.2		ug/L	%
[ Cr	52	9324	8807	2.8	0.090	0.028 ug/L	30.7 %
In	115	1182963	1027094	0.9		ug/L	%
Tb	159	1290637	1163535	1.2		ug/L	%
Sc	45	583761	506761	1.2		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:39:28

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-009A.020

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 or apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-009A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	140782	0.8		ug/L	%
Ge	72	130073	117565	0.5		ug/L	%
[> Sc-1	45	583761	594323	0.6		ug/L	%
[ Cr	52	9324	31607	1.0	2.387	0.057 ug/L	2.4 %
In	115	1182963	1073303	1.2		ug/L	%
Tb	159	1290637	1191978	0.9		ug/L	%
Sc	45	583761	594323	0.6		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:42:01

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-010A.021

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-010A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	146914	1.1		ug/L	%
Ge	72	130073	118509	0.2		ug/L	%
[> Sc-1	45	583761	599088	0.6		ug/L	%
[ Cr	52	9324	27493	0.9	1.919	0.033 ug/L	1.7 %
In	115	1182963	1073873	1.7		ug/L	%
Tb	159	1290637	1201834	0.5		ug/L	%
Sc	45	583761	599088	0.6		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:44:35

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-010ADUP.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: 064234-010ADUP

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	147581	1.0		ug/L	%
Ge	72	130073	119669	1.8		ug/L	%
[> Sc-1	45	583761	600922	0.3		ug/L	%
[ Cr	52	9324	26753	1.6	1.831	0.055 ug/L	3.0 %
In	115	1182963	1083698	1.2		ug/L	%
Tb	159	1290637	1206225	1.2		ug/L	%
Sc	45	583761	600922	0.3		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:47:09

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-011A.023

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-011A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	140635	0.4		ug/L	%
Ge	72	130073	118583	0.7		ug/L	%
Sc-1	45	583761	617068	0.4		ug/L	%
Cr	52	9324	47879	0.5	3.952	0.025 ug/L	0.6 %
In	115	1182963	1078365	0.9		ug/L	%
Tb	159	1290637	1197148	0.5		ug/L	%
Sc	45	583761	617068	0.4		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:49:43

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-012A.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: 064234-012A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	139090	1.2		ug/L	%
Ge	72	130073	115831	0.5		ug/L	%
Sc-1	45	583761	593110	0.9		ug/L	%
Cr	52	9324	33438	1.7	2.592	0.082 ug/L	3.2 %
In	115	1182963	1062478	1.0		ug/L	%
Tb	159	1290637	1179977	0.8		ug/L	%
Sc	45	583761	593110	0.9		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:52:14

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-013A.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: 064234-013A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	151441	1.7		ug/L	%
Ge	72	130073	118404	2.8		ug/L	%
[> Sc-1	45	583761	605949	2.0		ug/L	%
[ Cr	52	9324	24736	1.2	1.594	0.040 ug/L	2.5 %
In	115	1182963	1078408	3.3		ug/L	%
Tb	159	1290637	1210128	3.1		ug/L	%
Sc	45	583761	605949	2.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:54:41

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-014A.026

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-014A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	138193	4.4		ug/L	%
Ge	72	130073	117405	2.2		ug/L	%
Sc-1	45	583761	589081	3.4		ug/L	%
Cr	52	9324	26821	2.4	1.896	0.030 ug/L	1.6 %
In	115	1182963	1068388	3.4		ug/L	%
Tb	159	1290637	1197019	3.3		ug/L	%
Sc	45	583761	589081	3.4		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:57:09

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-014ADUP.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: 064234-014ADUP

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	144272	1.0		ug/L	%
Ge	72	130073	119260	0.2		ug/L	%
[> Sc-1	45	583761	598526	1.0		ug/L	%
[ Cr	52	9324	29018	1.0	2.085	0.055 ug/L	2.6 %
In	115	1182963	1087340	0.6		ug/L	%
Tb	159	1290637	1226658	1.6		ug/L	%
Sc	45	583761	598526	1.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 13:59:37

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-014AMS.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: 064234-014AMS

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	149025	3.0		ug/L	%
Ge	72	130073	123485	2.7		ug/L	%
[> Sc-1	45	583761	624163	3.7		ug/L	%
[ Cr	52	9324	106187	2.7	9.889	0.119 ug/L	1.2 %
In	115	1182963	1137746	3.5		ug/L	%
Tb	159	1290637	1270212	4.1		ug/L	%
Sc	45	583761	624163	3.7		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:04:37

Dataset File: D:\ELAN\Dataset\2003\August\081303\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	139893	152993	0.6			ug/L	%
Ge	72	130073	118586	1.6			ug/L	%
[> Sc-1	45	583761	552318	1.2			ug/L	%
[ Cr	52	9324	90001	2.0	9.425	0.100	ug/L	1.1 %
In	115	1182963	1136346	1.2			ug/L	%
Tb	159	1290637	1289819	0.9			ug/L	%
Sc	45	583761	552318	1.2			ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:07:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\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	139893	152440	0.7		ug/L	%
Ge	72	130073	118772	0.4		ug/L	%
[> Sc-1	45	583761	550597	1.3		ug/L	%
[ Cr	52	9324	8883	3.2	0.010	0.021 ug/L	208.1 %
In	115	1182963	1150730	0.6		ug/L	%
Tb	159	1290637	1300946	1.0		ug/L	%
Sc	45	583761	550597	1.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:09:44

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-015A.032

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-015A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	160601	0.1		ug/L	%
Ge	72	130073	125837	1.2		ug/L	%
Sc-1	45	583761	658142	0.7		ug/L	%
Cr	52	9324	51976	1.5	4.041	0.096 ug/L	2.4 %
In	115	1182963	1189643	1.6		ug/L	%
Tb	159	1290637	1321119	0.7		ug/L	%
Sc	45	583761	658142	0.7		ug/L	%



# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:12:14

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-016A.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: 064234-016A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	160576	1.1		ug/L	%
Ge	72	130073	129615	1.1		ug/L	%
[> Sc-1	45	583761	696586	1.0		ug/L	%
[ Cr	52	9324	27292	0.8	1.489	0.045 ug/L	3.0 %
In	115	1182963	1223615	0.8		ug/L	%
Tb	159	1290637	1363293	1.1		ug/L	%
Sc	45	583761	696586	1.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:14:44

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-017A.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: 064234-017A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	151959	3.6		ug/L	%
Ge	72	130073	122754	3.8		ug/L	%
Sc-1	.45	583761	635411	3.8		ug/L	%
Cr	52	9324	27775	3.0	1.780	0.026 ug/L	1.4 %
In	115	1182963	1153071	4.6		ug/L	%
Tb	159	1290637	1300839	4.3		ug/L	%
Sc	45	583761	635411	3.8		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:17:15

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-018A.035

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr appl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064234-018A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	152991	1.0		ug/L	%
Ge	72	130073	120993	1.7		ug/L	%
[> Sc-1	45	583761	621749	1.5		ug/L	%
[ Cr	52	9324	48425	1.0	3.971	0.089 ug/L	2.2 %
In	115	1182963	1125616	3.0		ug/L	%
Tb	159	1290637	1264841	1.6		ug/L	%
Sc	45	583761	621749	1.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:19:46

Dataset File: D:\ELAN\Dataset\2003\August\081303\064234-019A.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: 064234-019A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	145687	2.8		ug/L	%
Ge	72	130073	116201	2.8		ug/L	%
[> Sc-1	45	583761	531833	1.9		ug/L	%
[ Cr	52	9324	9790	5.6	0.157	0.082 ug/L	52.2 %
In	115	1182963	1096884	3.2		ug/L	%
Tb	159	1290637	1231737	1.9		ug/L	%
Sc	45	583761	531833	1.9		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:22:19

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.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: CCV

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	138192	0.7		ug/L	%
Ge	72	130073	108559	0.4		ug/L	%
Sc-1	45	583761	501927	0.5		ug/L	%
Cr	52	9324	81817	0.8	9.429	0.053 ug/L	0.6 %
In	115	1182963	1027622	0.2		ug/L	%
Tb	159	1290637	1162107	1.5		ug/L	%
Sc	45	583761	501927	0.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:24:53

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.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: CCB

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	139113	0.5		ug/L	%
Ge	72	130073	111207	1.2		ug/L	%
[> Sc-1	45	583761	512600	0.4		ug/L	%
[ Cr	52	9324	8417	3.7	0.029	0.035 ug/L	122.2 %
In	115	1182963	1049463	1.4		ug/L	%
Tb	159	1290637	1194268	1.1		ug/L	%
Sc	45	583761	512600	0.4		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:27:27

Dataset File: D:\ELAN\Dataset\2003\August\081303\MB-.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: MB- R30052 NS 8-13-03

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141584	0.9		ug/L	%
Ge	72	130073	111558	0.6		ug/L	%
Sc-1	45	583761	517868	1.0		ug/L	%
Cr	52	9324	8622	3.0	0.043	0.022 ug/L	51.1 %
In	115	1182963	1056210	1.5		ug/L	%
Tb	159	1290637	1196362	0.9		ug/L	%
Sc	45	583761	517868	1.0		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:29:59

Dataset File: D:\ELAN\Dataset\2003\August\081303\LCS-.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: LCS- 030052 NS 8-13-03

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	142988	0.7		ug/L	%
Ge	72	130073	113618	0.7		ug/L	%
Sc-1	45	583761	522277	1.4		ug/L	%
Cr	52	9324	86199	0.9	9.561	0.080 ug/L	0.8 %
In	115	1182963	1081868	0.4		ug/L	%
Tb	159	1290637	1215069	1.4		ug/L	%
Sc	45	583761	522277	1.4		ug/L	%



# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:32:32

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-001A.041

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-001A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	139893	144677	0.6			ug/L	%
Ge	72	130073	119021	1.0			ug/L	%
[> Sc-1	45	583761	604783	0.6			ug/L	%
[ Cr	52	9324	34931	0.7	2.680	0.031	ug/L	1.2 %
In	115	1182963	1093276	0.6			ug/L	%
Tb	159	1290637	1212124	0.4			ug/L	%
Sc	45	583761	604783	0.6			ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:35:05

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-002A.042

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-002A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	138223	0.4		ug/L	%
Ge	72	130073	114009	1.0		ug/L	%
[> Sc-1	45	583761	579725	0.9		ug/L	%
[ Cr	52	9324	62548	1.3	5.895	0.053 ug/L	0.9 %
In	115	1182963	1050667	0.9		ug/L	%
Tb	159	1290637	1176551	0.6		ug/L	%
Sc	45	583761	579725	0.9		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:37:38

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-003A.043

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-003A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141845	1.4		ug/L	%
Ge	72	130073	115835	1.7		ug/L	%
[> Sc-1	45	583761	595171	1.9		ug/L	%
[ Cr	52	9324	28622	0.5	2.060	0.048 ug/L	2.4 %
In	115	1182963	1066641	2.2		ug/L	%
Tb	159	1290637	1191716	1.8		ug/L	%
Sc	45	583761	595171	1.9		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:40:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-004A.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: 064235-004A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	142257	0.7		ug/L	%
Ge	72	130073	114821	1.3		ug/L	%
[> Sc-1	45	583761	526518	1.1		ug/L	%
[ Cr	52	9324	6073	1.8	-0.285	0.011 ug/L	3.7 %
In	115	1182963	1074109	0.4		ug/L	%
Tb	159	1290637	1204089	1.1		ug/L	%
Sc	45	583761	526518	1.1		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:42:43

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006A.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: 064235-006A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	143846	3.1		ug/L	%
Ge	72	130073	114064	3.3		ug/L	%
[> Sc-1	45	583761	643481	3.8		ug/L	%
[ Cr	52	9324	62361	1.9	5.194	0.114 ug/L	2.2 %
In	115	1182963	1062738	3.8		ug/L	%
Tb	159	1290637	1196297	3.7		ug/L	%
Sc	45	583761	643481	3.8		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:45:10

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006ADUP.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: 064235-006ADUP

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	144262	0.7		ug/L	%
Ge	72	130073	113110	1.1		ug/L	%
[> Sc-1	45	583761	636079	0.6		ug/L	%
[ Cr	52	9324	62338	1.3	5.261	0.057 ug/L	1.1%
In	115	1182963	1054831	1.3		ug/L	%
Tb	159	1290637	1191873	0.9		ug/L	%
Sc	45	583761	636079	0.6		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:47:38

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006AMS.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: 064235-006AMS

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	147051	3.5		ug/L	%
Ge	72	130073	115370	3.9		ug/L	%
[> Sc-1	45	583761	651711	3.9		ug/L	%
[ Cr	52	9324	141715	3.9	12.921	0.068 ug/L	0.5 %
In	115	1182963	1076532	3.0		ug/L	%
Tb	159	1290637	1214027	4.2		ug/L	%
Sc	45	583761	651711	3.9		ug/L	%

*not reported*

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:50:06

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006AMSD.048

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-006AMSD

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	164133	1.7		ug/L	%
Ge	72	130073	129197	2.7		ug/L	%
[> Sc-1	45	583761	741207	3.0		ug/L	%
[ Cr	52	9324	156126	2.3	12.486	0.168 ug/L	1.3 %
In	115	1182963	1232874	2.5		ug/L	%
Tb	159	1290637	1396046	2.5		ug/L	%
Sc	45	583761	741207	3.0		ug/L	%

*not reported  
for re-run*



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:52:37

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.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: CCV

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	145057	1.3		ug/L	%
Ge	72	130073	112190	1.6		ug/L	%
[> Sc-1	45	583761	522057	0.9		ug/L	%
[ Cr	52	9324	85047	2.0	9.423	0.161 ug/L	1.7 %
In	115	1182963	1074488	1.6		ug/L	%
Tb	159	1290637	1231220	1.5		ug/L	%
Sc	45	583761	522057	0.9		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:55:11

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.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: CCB

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	144361	1.3		ug/L	%
Ge	72	130073	113902	0.5		ug/L	%
[> Sc-1	45	583761	526977	0.2		ug/L	%
[ Cr	52	9324	8778	1.7	0.044	0.018 ug/L	40.1 %
In	115	1182963	1089197	0.9		ug/L	%
Tb	159	1290637	1241928	1.3		ug/L	%
Sc	45	583761	526977	0.2		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 14:57:43

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-007A.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: 064235-007A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	149664	0.8		ug/L	%
Ge	72	130073	122411	0.4		ug/L	%
Sc-1	45	583761	616353	1.0		ug/L	%
Cr	52	9324	36050	1.8	2.727	0.094 ug/L	3.4 %
In	115	1182963	1141919	0.3		ug/L	%
Tb	159	1290637	1277792	0.2		ug/L	%
Sc	45	583761	616353	1.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:00:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-008A.052

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-008A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	150546	0.5		ug/L	%
Ge	72	130073	123408	0.4		ug/L	%
[> Sc-1	45	583761	621372	0.5		ug/L	%
[ Cr	52	9324	34194	1.1	2.505	0.033 ug/L	1.3 %
In	115	1182963	1147906	0.9		ug/L	%
Tb	159	1290637	1291930	1.3		ug/L	%
Sc	45	583761	621372	0.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:02:42

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-009A.053

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-009A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	156468	0.6		ug/L	%
Ge	72	130073	126322	1.1		ug/L	%
Sc-1	45	583761	653371	0.3		ug/L	%
Cr	52	9324	37185	0.6	2.626	0.015 ug/L	0.6 %
In	115	1182963	1175347	0.8		ug/L	%
Tb	159	1290637	1319302	0.8		ug/L	%
Sc	45	583761	653371	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:05:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-010A.054

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-010A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	151045	0.8		ug/L	%
Ge	72	130073	124498	0.6		ug/L	%
[> Sc-1	45	583761	657620	0.4		ug/L	%
[ Cr	52	9324	46585	0.7	3.519	0.036 ug/L	1.0 %
In	115	1182963	1148030	0.7		ug/L	%
Tb	159	1290637	1288653	0.6		ug/L	%
Sc	45	583761	657620	0.4		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:07:42

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-011A.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: 064235-011A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	147586	0.8		ug/L	%
Ge	72	130073	121503	1.9		ug/L	%
[> Sc-1	45	583761	674989	0.3		ug/L	%
[ Cr	52	9324	52090	1.4	3.925	0.061 ug/L	1.6 %
In	115	1182963	1137003	1.4		ug/L	%
Tb	159	1290637	1285295	1.7		ug/L	%
Sc	45	583761	674989	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:10:13

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-012A.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: 064235-012A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	145724	3.2		ug/L	%
Ge	72	130073	118295	3.4		ug/L	%
[> Sc-1	45	583761	668299	3.7		ug/L	%
[ Cr	52	9324	54461	1.7	4.205	0.128 ug/L	3.0 %
In	115	1182963	1101994	4.4		ug/L	%
Tb	159	1290637	1254576	4.2		ug/L	%
Sc	45	583761	668299	3.7		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:12:45

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-013A.057

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: 064235-013A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141534	0.5		ug/L	%
Ge	72	130073	113418	0.7		ug/L	%
Sc-1	45	583761	516263	0.7		ug/L	%
Cr	52	9324	7701	2.4	-0.068	0.018 ug/L	27.1 %
In	115	1182963	1061277	0.5		ug/L	%
Tb	159	1290637	1194729	1.0		ug/L	%
Sc	45	583761	516263	0.7		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:15:17

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-014A.058

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: 064235-014A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	145964	0.6		ug/L	%
Ge	72	130073	117020	0.8		ug/L	%
[> Sc-1	45	583761	597822	0.7		ug/L	%
[ Cr	52	9324	24263	0.4	1.579	0.020 ug/L	1.3 %
In	115	1182963	1077077	0.5		ug/L	%
Tb	159	1290637	1199264	1.0		ug/L	%
Sc	45	583761	597822	0.7		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:17:49

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-015A.059

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: 064235-015A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	141126	1.1		ug/L	%
Ge	72	130073	119091	1.0		ug/L	%
[> Sc-1	45	583761	631923	0.5		ug/L	%
[ Cr	52	9324	45185	0.6	3.561	0.016 ug/L	0.5 %
In	115	1182963	1094126	0.6		ug/L	%
Tb	159	1290637	1223652	1.1		ug/L	%
Sc	45	583761	631923	0.5		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:20:22

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-017A.060

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: 064235-017A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	135878	0.2		ug/L	%
Ge	72	130073	114733	0.9		ug/L	%
[> Sc-1	45	583761	636476	0.9		ug/L	%
[ Cr	52	9324	48993	0.3	3.912	0.053 ug/L	1.4 %
In	115	1182963	1057468	1.1		ug/L	%
Tb	159	1290637	1188553	0.5		ug/L	%
Sc	45	583761	636476	0.9		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:22:55

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.061

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	152703	0.9		ug/L	%
Ge	72	130073	120533	1.2		ug/L	%
[> Sc-1	45	583761	555906	1.3		ug/L	%
[ Cr	52	9324	91231	2.3	9.500	0.101 ug/L	1.1 %
In	115	1182963	1160142	1.3		ug/L	%
Tb	159	1290637	1330669	0.4		ug/L	%
Sc	45	583761	555906	1.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:25:30

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.062

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	139893	152302	1.1		ug/L	%
Ge	72	130073	122155	1.5		ug/L	%
[> Sc-1	45	583761	569518	0.7		ug/L	%
[ Cr	52	9324	9200	3.4	0.012	0.033 ug/L	284.7 %
In	115	1182963	1176725	1.3		ug/L	%
Tb	159	1290637	1346753	1.0		ug/L	%
Sc	45	583761	569518	0.7		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:28:04

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-018A.063

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: 064235-018A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	157606	0.6		ug/L	%
Ge	72	130073	131753	0.6		ug/L	%
[> Sc-1	45	583761	716426	1.1		ug/L	%
[ Cr	52	9324	49114	0.8	3.372	0.012 ug/L	0.4 %
In	115	1182963	1245477	1.3		ug/L	%
Tb	159	1290637	1382716	0.3		ug/L	%
Sc	45	583761	716426	1.1		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:30:34

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-019A.064

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: 064235-019A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	156623	0.9		ug/L	%
Ge	72	130073	134436	0.9		ug/L	%
[> Sc-1	45	583761	673548	1.6		ug/L	%
[ Cr	52	9324	34594	0.9	2.270	0.048 ug/L	2.1 %
In	115	1182963	1250582	0.8		ug/L	%
Tb	159	1290637	1388831	1.9		ug/L	%
Sc	45	583761	673548	1.6		ug/L	%



# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:33:01

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-020A.065

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: 064235-020A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	156999	0.5		ug/L	%
Ge	72	130073	133467	1.1		ug/L	%
[> Sc-1	45	583761	673888	0.6		ug/L	%
[ Cr	52	9324	26260	1.3	1.475	0.047 ug/L	3.2 %
In	115	1182963	1251592	1.5		ug/L	%
Tb	159	1290637	1404511	0.6		ug/L	%
Sc	45	583761	673888	0.6		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:35:27

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-021A.066

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: 064235-021A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	159133	0.8		ug/L	%
Ge	72	130073	132209	1.4		ug/L	%
[> Sc-1	45	583761	673867	1.0		ug/L	%
[ Cr	52	9324	31857	1.3	2.008	0.052 ug/L	2.6 %
In	115	1182963	1239268	0.8		ug/L	%
Tb	159	1290637	1379591	2.0		ug/L	%
Sc	45	583761	673867	1.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:37:55

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-022A.067

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: 064235-022A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	159703	0.7		ug/L	%
Ge	72	130073	132324	1.3		ug/L	%
[> Sc-1	45	583761	648264	1.0		ug/L	%
[ Cr	52	9324	17830	1.3	0.740	0.031 ug/L	4.2 %
In	115	1182963	1231275	0.4		ug/L	%
Tb	159	1290637	1376966	0.4		ug/L	%
Sc	45	583761	648264	1.0		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:40:23

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-022ADUP.068

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: 064235-022ADUP

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	159200	0.3		ug/L	%
Ge	72	130073	133502	1.1		ug/L	%
[> Sc-1	45	583761	649416	0.4		ug/L	%
[ Cr	52	9324	17706	1.2	0.724	0.017 ug/L	2.3 %
In	115	1182963	1232089	1.3		ug/L	%
Tb	159	1290637	1381365	1.7		ug/L	%
Sc	45	583761	649416	0.4		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:42:54

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.069

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	139893	151376	0.9		ug/L	%
Ge	72	130073	124080	0.6		ug/L	%
[> Sc-1	45	583761	573499	0.5		ug/L	%
[ Cr	52	9324	92911	1.0	9.366	0.147 ug/L	1.6 %
In	115	1182963	1193520	0.7		ug/L	%
Tb	159	1290637	1348498	0.2		ug/L	%
Sc	45	583761	573499	0.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:45:28

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.070

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	139893	150132	0.5		ug/L	%
Ge	72	130073	122624	1.3		ug/L	%
Sc-1	45	583761	566809	1.0		ug/L	%
Cr	52	9324	8586	3.8	-0.053	0.029 ug/L	55.6 %
In	115	1182963	1170714	0.7		ug/L	%
Tb	159	1290637	1324818	1.3		ug/L	%
Sc	45	583761	566809	1.0		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:48:00

Dataset File: D:\ELAN\Dataset\2003\August\081303\MB-.071

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- (L 300 S 3) N S 8-13 => }

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	149844	1.0		ug/L	%
Ge	72	130073	122340	1.3		ug/L	%
[> Sc-1	45	583761	568321	1.1		ug/L	%
[ Cr	52	9324	8974	4.0	-0.012	0.030 ug/L	248.3 %
In	115	1182963	1171852	1.1		ug/L	%
Tb	159	1290637	1328910	0.9		ug/L	%
Sc	45	583761	568321	1.1		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:50:29

Dataset File: D:\ELAN\Dataset\2003\August\081303\LCS-.072

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- *130053 NS 8-13-03*

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	153835	0.4		ug/L	%
Ge	72	130073	124464	0.4		ug/L	%
[> Sc-1	45	583761	578104	0.7		ug/L	%
[ Cr	52	9324	95523	0.3	9.573	0.105 ug/L	1.1 %
In	115	1182963	1189395	1.6		ug/L	%
Tb	159	1290637	1357275	0.1		ug/L	%
Sc	45	583761	578104	0.7		ug/L	%



## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:52:58

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-016A.073

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 or apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-016A

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	152709	1.5		ug/L	%
Ge	72	130073	125569	1.3		ug/L	%
[> Sc-1	45	583761	695710	1.3		ug/L	%
[ Cr	52	9324	31707	0.2	1.899	0.040 ug/L	2.1 %
In	115	1182963	1166858	1.9		ug/L	%
Tb	159	1290637	1340887	1.6		ug/L	%
Sc	45	583761	695710	1.3		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:55:28

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-016ADUP.074

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: 064235-016ADUP

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	154155	0.3		ug/L	%
Ge	72	130073	126546	1.6		ug/L	%
[> Sc-1	45	583761	700153	0.8		ug/L	%
[ Cr	52	9324	30748	1.0	1.792	0.036 ug/L	2.0 %
In	115	1182963	1191160	1.5		ug/L	%
Tb	159	1290637	1354312	1.5		ug/L	%
Sc	45	583761	700153	0.8		ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 15:57:58

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-016AMS.075

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: 064235-016AMS

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	155265	1.3		ug/L	%
Ge	72	130073	127021	0.4		ug/L	%
[> Sc-1	45	583761	697753	0.8		ug/L	%
[ Cr	52	9324	119840	1.1	9.990	0.054 ug/L	0.5 %
In	115	1182963	1204981	0.5		ug/L	%
Tb	159	1290637	1359529	0.8		ug/L	%
Sc	45	583761	697753	0.8		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:00:29

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-016AMSD.076

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064235-016AMSD

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	157160	0.9		ug/L	%
Ge	72	130073	129369	0.5		ug/L	%
[> Sc-1	45	583761	707181	0.9		ug/L	%
[ Cr	52	9324	121496	0.2	9.994	0.087 ug/L	0.9 %
In	115	1182963	1222064	0.9		ug/L	%
Tb	159	1290637	1385070	0.8		ug/L	%
Sc	45	583761	707181	0.9		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:03:00

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-023A.077

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: 064235-023A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	167332	0.6		ug/L	%
Ge	72	130073	136241	0.9		ug/L	%
[> Sc-1	45	583761	715257	0.5		ug/L	%
[ Cr	52	9324	26416	1.1	1.344	0.026 ug/L	1.9 %
In	115	1182963	1270184	0.6		ug/L	%
Tb	159	1290637	1428611	0.3		ug/L	%
Sc	45	583761	715257	0.5		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:05:32

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-024A.078

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: 064235-024A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	168213	0.5		ug/L	%
Ge	72	130073	139718	0.7		ug/L	%
Sc-1	45	583761	725719	0.3		ug/L	%
Cr	52	9324	34056	1.0	1.985	0.027 ug/L	1.4 %
In	115	1182963	1293440	0.7		ug/L	%
Tb	159	1290637	1431524	0.7		ug/L	%
Sc	45	583761	725719	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:08:04

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-025A.079

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: 064235-025A

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	162356	1.2		ug/L	%
Ge	72	130073	139027	0.4		ug/L	%
[> Sc-1	45	583761	719151	1.1		ug/L	%
[ Cr	52	9324	45295	0.5	3.015	0.064 ug/L	2.1 %
In	115	1182963	1306293	1.4		ug/L	%
Tb	159	1290637	1444083	1.4		ug/L	%
Sc	45	583761	719151	1.1		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:10:37

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.080

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.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	139893	156028	1.6		ug/L	%
Ge	72	130073	130316	0.6		ug/L	%
[> Sc-1	45	583761	596146	0.7		ug/L	%
[ Cr	52	9324	97710	0.6	9.487	0.065 ug/L	0.7 %
In	115	1182963	1245094	2.0		ug/L	%
Tb	159	1290637	1426391	1.7		ug/L	%
Sc	45	583761	596146	0.7		ug/L	%



# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:13:12

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.081

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	139893	157645	1.8		ug/L	%
Ge	72	130073	131214	1.9		ug/L	%
Sc-1	45	583761	606349	1.9		ug/L	%
Cr	52	9324	9494	3.9	-0.020	0.021 ug/L	101.5 %
In	115	1182963	1258061	1.7		ug/L	%
Tb	159	1290637	1430729	2.0		ug/L	%
Sc	45	583761	606349	1.9		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:17:06

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006AMSD.082

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: 064235-006AMSD

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	153615	4.2		ug/L	%
Ge	72	130073	129830	3.8		ug/L	%
[> Sc-1	45	583761	735004	4.4		ug/L	%
[ Cr	52	9324	161291	3.8	13.051	0.085 ug/L	0.7 %
In	115	1182963	1219890	5.0		ug/L	%
Tb	159	1290637	1373191	4.1		ug/L	%
Sc	45	583761	735004	4.4		ug/L	%

*not reported  
for u-sun*

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:25:19

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006AMS 2X.083

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: 064235-006AMS 2X

Sample Type:

### Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD	Conc. RSD
Li	7	139893	155823	1.3		ug/L	%
Ge	72	130073	133493	0.3		ug/L	%
[> Sc-1	45	583761	686389	0.3		ug/L	%
[ Cr	52	9324	77102	1.1	6.180	0.097 ug/L	1.6 %
In	115	1182963	1255476	0.7		ug/L	%
Tb	159	1290637	1411743	0.3		ug/L	%
Sc	45	583761	686389	0.3		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:28:31

Dataset File: D:\ELAN\Dataset\2003\August\081303\064235-006AMSD 2X.084

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: 064235-006AMSD 2X

Sample Type:

## Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	139893	153855	1.6			ug/L	%
Ge	72	130073	133624	1.1			ug/L	%
[> Sc-1	45	583761	680361	1.7			ug/L	%
[ Cr	52	9324	76629	1.6	6.199	0.097	ug/L	1.6 %
In	115	1182963	1240445	1.1			ug/L	%
Tb	159	1290637	1389316	1.4			ug/L	%
Sc	45	583761	680361	1.7			ug/L	%

## Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:31:01

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCV.085

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	139893	152323	0.8		ug/L	%
Ge	72	130073	128407	1.2		ug/L	%
[> Sc-1	45	583761	590216	1.2		ug/L	%
[ Cr	52	9324	95909	0.6	9.398	0.107 ug/L	1.1 %
In	115	1182963	1228345	1.3		ug/L	%
Tb	159	1290637	1386193	1.1		ug/L	%
Sc	45	583761	590216	1.2		ug/L	%

# Quantitative Analysis Summary

Sample Date/Time: Wednesday, August 13, 2003 16:33:35

Dataset File: D:\ELAN\Dataset\2003\August\081303\CCB.086

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	139893	152525	0.5		ug/L	%
Ge	72	130073	129638	1.3		ug/L	%
[> Sc-1	45	583761	595393	0.9		ug/L	%
[ Cr	52	9324	9414	2.1	-0.010	0.014 ug/L	139.7 %
In	115	1182963	1225397	1.7		ug/L	%
Tb	159	1290637	1381476	2.2		ug/L	%
Sc	45	583761	595393	0.9		ug/L	%