UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABO

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

ESAT Data OK to release

EPA Region 5 Records Ctr.
205465

Date: JUL 12 1999

Subject: Review of Region 5 Data for Sauget Area I - Dead Creek Area G Code:058E

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To:

Attached are the results for Sauget Area I - Dead Creek Area G Code:058E
CRL request number 990086
for analyses for ICP
Results are reported for sample designations: 99IE19S01, 99IE19S02, 99IE19S03, 99IE19D03, 99IE19S04, 99IE19S05, 99IE19S06, 99IE19S07, 99IE19S08, 99IE19S09, 99IE19S10, 99IE19S11 and 99IE19S12

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

For vanadium, the initial and final instrument blanks were above the reporting limit of 5 µg V/L (5.3 and 6.4 µg V/L, respectively). However, the lowest concentration sample is ten times the reporting limit for vanadium, so the effect of this QC audit flag is minimal. Both the second instrument blank and both digestion blanks were below the limit. All lead results were reported from this ICP analysis, and cadmium was reported for all samples except for samples 99IE19S02, 99IE19S11 and 99IE19S12. Cadmium for those three samples was reported by GFAA.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for Sauget Area I - Dead Creek Area G Code:058E

12 July 99

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

12 July 99

Team Leader and Date (✓) Reviewed ( ) Unreviewed

7/12/99

QC Coordinator and Date (✓) Reviewed ( ) Unreviewed

JUL 12 1999

Data Management Coordinator and Date Received

Date Transmitted JUL 12 1999

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

LOCKHEED MARTIN ESAT CONTRACT
DATA SET CUSTODY TRANSFER FORM

DATA SET NUMBER 990086 PWO NUMBER ESES1106

SITE NAME: SAUGET AREA I-DEAD CREEK TDF NUMBER 5104-245

PARAMETER: ICP MATRIX: SOIL

SF DU/ACT NO: TFA 501 Y ____ /C ____

SAMPLE NUMBERS: 99IE19S01-S12, D03

NUMBER OF SAMPLES: 13

ESAT APPROVALS:

[signature]	7-8-99	[signature]	7-8-99
Analyst	Date	Task Group Leader	Date
[signature]	7-8-99	[signature]	7-8-99
QA/QC ~~Coordinator~~	Date	ESAT Team Manager	Date

COMMENTS: RLIMS UNAVAILABLE

The above identified data set was transferred from ESAT custody to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the indicated date relinquished.

[signature]	7-8-99	K Swan	7 8 99
Relinquished by	Date	Received by	Date

EPA APPROVALS:

[signature]	12 July 99
EPA WAM	Date

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[ ] Returned: _____ Date

COMMENTS:

[signature]	12 July 99	[✓] Reviewed	[ ] Unreviewed
~~Section Chief~~ TL	Date		
		[signature]	7/12/99 7/12/99
ESAT RPO	Date	DATA COORDINATOR/RECD/TRANSMTD	

A COPY OF THIS CUSTODY TRANSFER FORM WITH A RECEIVED BY EPA SIGNATURE IS TO BE FILED IN THE TDF FILE. THE ORIGINAL CUSTODY TRANSFER ACCOMPANIES THE DATA SET TO BE APPROVED BY THE EPA AND A COMPLETED COPY RETURNED TO ESAT.

7-8-99

Method Number: 200.7
Date Generated: July 8, 1999
Author: R.Dilg,Lockheed-ESAT

Site Name: Sauget Area I - Dead Creek
Work Unit Number: 05-99-3-04
TDF Number: 5104-245
Charge Number: ESE-51-106

ICP NARRATIVE

This narrative covers the analysis of 13 soil samples from batch (990086) from the named site sampled for the determination of ICP metals' analysis.

Data Set	Sample Nos.
990086	99IE19S01, S02, S03, D03, S04, S05, S06, S07, S08, S09, S10, S11, S12

The samples were dried at 105 deg C for 8 hours and then ground using a laboratory ball mill. CLP beaker digestion was used to prepare the samples for ICP analysis.

The digests were analyzed using the JY138 ICP unit along with the JYSED5 analysis method. Run results were stored to file RUN 1111a.

ICP RUN RESULTS

ICP analysis run method JY SED5 is still in the process of being more fully evaluated. As such and until such time when the method does become fully evaluated, former TJA 1160 detection limits and appropriately modified detection limits will be used for reporting and QA evaluation purposes. Based on preliminary evaluation work this approach seems to be a conservative one since the early indications are that the JY 138 detection limits are for the most part comparable if not lower than TJA 1160 values.

Also for QA evaluation purposes, mid range and high AQC check audit acceptance criteria used were 100 ± 10 %R for check audits.

7-8-99

ICP RUN RESULTS (continued)

The following lists the case pertinent out-of-control QC audit check results:

RUN 1111a:

Blanks:	Instr Blank 1:	Zn213,	34.4	µg/L
		V292,	5.3	"
	Digest Blank 1:	Zn213,	20.0	"
	Digest Blank 2:	Sn189,	65.6	"
	Instr Blank 3:	Sn189,	45.0	"
		V292,	6.4	"
		Al308,	- 224	+

+ alternate analyte line used to monitor blank audit

AQC's: AQC 3: Sn189 10.0 % deviation

Laboratory duplicate: 99IE19SO1: Sn189 26% RPD

Matrix Spike: 99IE19S11: Zn481 *

* alternate analyte line used to monitor spike audit

All As results were reported using GFAA data. See GFAA reports. All Pb results were reported using ICP data. All Cd results were reported using ICP data except for 99IE19S02, S11, and S12 for which GFAA data was used; see GFAA analysis results.

Sn is not of concern for this data set.

For Zn, a flagging limit of 20 ppb was chosen. However, for reporting purposes, a 40 ppb limit was used. All Zn sample results were based on the Zn213 line. All Zn sample results are usable.

For V, possible high bias was indicated from blank check audits but all sample V results were high enough so as not to be significantly affected. All V sample results are usable.

7-8-99

Other Comments

As far as the deliverables are concerned the following were submitted:

- Raw data printouts for RUN 1111a
- QA analysis run summaries for the above RUN
- QA lab duplicate and matrix spike summaries
- individual worksheets showing raw and IEC corrected results
- a table showing a list of IEC factors used to correct raw ICP data

The last two items mentioned above were included since the interelement corrections were applied to the ICP values after the actual ICP analysis run. The QA run summaries, QA duplicate and matrix spike summaries, and the sample analysis data for the analytes reported all used results that were interelement corrected. The IEC corrections were made using matrix algebra methods and Lotus spreadsheet software.

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S01 ANALYZED: 07-Jul-99

STATION: X101

COMPOUND	AMOUNT	(Units)
Aluminum	6200	(mg/kg)
Barium	360	(mg/kg)
Beryllium	0.79	(mg/kg)
Cadmium	2.9	(mg/kg)
Calcium	16000	(mg/kg)
Chromium	9.6	(mg/kg)
Cobalt	5.5	(mg/kg)
Copper	17	(mg/kg)
Iron	58000	(mg/kg)
Lead	74	(mg/kg)
Magnesium	4500	(mg/kg)
Manganese	500	(mg/kg)
Nickel	21	(mg/kg)
Potassium	960	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	260	(mg/kg)
Vanadium	10	(mg/kg)
Zinc	320	(mg/kg)

ANALYZED BY: RD 7-8-99

JM
12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S02 ANALYZED: 07-Jul-99

STATION: X102

COMPOUND	AMOUNT	(Units)
Aluminum	5200	(mg/kg)
Barium	190	(mg/kg)
Beryllium	0.64	(mg/kg)
Calcium	14000	(mg/kg)
Chromium	9.3	(mg/kg)
Cobalt	5.9	(mg/kg)
Copper	12	(mg/kg)
Iron	18000	(mg/kg)
Lead	36	(mg/kg)
Magnesium	5200	(mg/kg)
Manganese	280	(mg/kg)
Nickel	23	(mg/kg)
Potassium	1000	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	190	(mg/kg)
Vanadium	13	(mg/kg)
Zinc	140	(mg/kg)

ANALYZED BY: 7-8-99

12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S03 ANALYZED: 07-Jul-99

STATION: X103

COMPOUND	AMOUNT	(Units)
Aluminum	17000	(mg/kg)
Barium	300	(mg/kg)
Beryllium	1.2	(mg/kg)
Cadmium	28	(mg/kg)
Calcium	6400	(mg/kg)
Chromium	39	(mg/kg)
Cobalt	11	(mg/kg)
Copper	350	(mg/kg)
Iron	29000	(mg/kg)
Lead	180	(mg/kg)
Magnesium	4200	(mg/kg)
Manganese	200	(mg/kg)
Nickel	330	(mg/kg)
Potassium	2800	(mg/kg)
Silver	1.1 U	(mg/kg)
Sodium	500	(mg/kg)
Vanadium	33	(mg/kg)
Zinc	3500	(mg/kg)

ANALYZED BY: 7-8-99

JVM
12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19D03

ANALYZED: 07-Jul-99

STATION: X103D

COMPOUND	AMOUNT	(Units)
Aluminum	12000	(mg/kg)
Barium	310	(mg/kg)
Beryllium	1	(mg/kg)
Cadmium	28	(mg/kg)
Calcium	6600	(mg/kg)
Chromium	36	(mg/kg)
Cobalt	9.4	(mg/kg)
Copper	540	(mg/kg)
Iron	27000	(mg/kg)
Lead	290	(mg/kg)
Magnesium	3800	(mg/kg)
Manganese	180	(mg/kg)
Nickel	350	(mg/kg)
Potassium	2100	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	450	(mg/kg)
Vanadium	29	(mg/kg)
Zinc	3500	(mg/kg)

ANALYZED BY: [illegible] 7-8-99

JVM
12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S04 ANALYZED: 07-Jul-99

STATION: X105

COMPOUND	AMOUNT	(Units)
Aluminum	16000	(mg/kg)
Barium	240	(mg/kg)
Beryllium	1.1	(mg/kg)
Cadmium	6.7	(mg/kg)
Calcium	20000	(mg/kg)
Chromium	37	(mg/kg)
Cobalt	8.7	(mg/kg)
Copper	690	(mg/kg)
Iron	23000	(mg/kg)
Lead	170	(mg/kg)
Magnesium	6500	(mg/kg)
Manganese	250	(mg/kg)
Nickel	350	(mg/kg)
Potassium	2800	(mg/kg)
Silver	1.1 U	(mg/kg)
Sodium	320	(mg/kg)
Vanadium	35	(mg/kg)
Zinc	2200	(mg/kg)

ANALYZED BY: 7-8-99

JVM
12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S05 ANALYZED: 07-Jul-99

STATION: X106

COMPOUND	AMOUNT	(Units)
Aluminum	10000	(mg/kg)
Barium	160	(mg/kg)
Beryllium	0.84	(mg/kg)
Cadmium	10	(mg/kg)
Calcium	59000	(mg/kg)
Chromium	51	(mg/kg)
Cobalt	6.9	(mg/kg)
Copper	220	(mg/kg)
Iron	15000	(mg/kg)
Lead	550	(mg/kg)
Magnesium	10000	(mg/kg)
Manganese	200	(mg/kg)
Nickel	130	(mg/kg)
Potassium	2000	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	300	(mg/kg)
Vanadium	34	(mg/kg)
Zinc	1700	(mg/kg)

ANALYZED BY: QD 7-8-99

rvm 12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S06 ANALYZED: 07-Jul-99

STATION: X107

COMPOUND	AMOUNT	(Units)
Aluminum	17000	(mg/kg)
Barium	200	(mg/kg)
Beryllium	1.3	(mg/kg)
Cadmium	4.9	(mg/kg)
Calcium	15000	(mg/kg)
Chromium	53	(mg/kg)
Cobalt	9.2	(mg/kg)
Copper	100	(mg/kg)
Iron	26000	(mg/kg)
Lead	79	(mg/kg)
Magnesium	5700	(mg/kg)
Manganese	830	(mg/kg)
Nickel	72	(mg/kg)
Potassium	2800	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	270	(mg/kg)
Vanadium	53	(mg/kg)
Zinc	820	(mg/kg)

ANALYZED BY: 7-8-99

JMM 12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S07 ANALYZED: 07-Jul-99

STATION: X108

COMPOUND	AMOUNT	(Units)
Aluminum	17000	(mg/kg)
Barium	400	(mg/kg)
Beryllium	1.4	(mg/kg)
Cadmium	16	(mg/kg)
Calcium	9300	(mg/kg)
Chromium	46	(mg/kg)
Cobalt	14	(mg/kg)
Copper	1600	(mg/kg)
Iron	28000	(mg/kg)
Lead	310	(mg/kg)
Magnesium	4200	(mg/kg)
Manganese	360	(mg/kg)
Nickel	1900	(mg/kg)
Potassium	2600	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	360	(mg/kg)
Vanadium	40	(mg/kg)
Zinc	7800	(mg/kg)

ANALYZED BY: 7-8-99

JVM 12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S08 ANALYZED: 07-Jul-99

STATION: X109

COMPOUND	AMOUNT	(Units)
Aluminum	12000	(mg/kg)
Barium	390	(mg/kg)
Beryllium	1.2	(mg/kg)
Cadmium	31	(mg/kg)
Calcium	9400	(mg/kg)
Chromium	39	(mg/kg)
Cobalt	7.7	(mg/kg)
Copper	4600	(mg/kg)
Iron	27000	(mg/kg)
Lead	430	(mg/kg)
Magnesium	5200	(mg/kg)
Manganese	140	(mg/kg)
Nickel	1700	(mg/kg)
Potassium	2200	(mg/kg)
Silver	8.2	(mg/kg)
Sodium	270	(mg/kg)
Vanadium	38	(mg/kg)
Zinc	8000	(mg/kg)

ANALYZED BY: LD 7-8-99

JWM 12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S09

ANALYZED: 07-Jul-99

STATION: X111

COMPOUND	AMOUNT	(Units)
Aluminum	17000	(mg/kg)
Barium	570	(mg/kg)
Beryllium	1.4	(mg/kg)
Cadmium	78	(mg/kg)
Calcium	12000	(mg/kg)
Chromium	57	(mg/kg)
Cobalt	12	(mg/kg)
Copper	2500	(mg/kg)
Iron	38000	(mg/kg)
Lead	560	(mg/kg)
Magnesium	4400	(mg/kg)
Manganese	290	(mg/kg)
Nickel	1000	(mg/kg)
Potassium	2700	(mg/kg)
Silver	4.1	(mg/kg)
Sodium	210	(mg/kg)
Vanadium	37	(mg/kg)
Zinc	6800	(mg/kg)

ANALYZED BY: RD 7-8-99

JVM
12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S10 ANALYZED: 07-Jul-99

STATION: X112

COMPOUND	AMOUNT	(Units)
Aluminum	19000	(mg/kg)
Barium	370	(mg/kg)
Beryllium	1.4	(mg/kg)
Cadmium	71	(mg/kg)
Calcium	16000	(mg/kg)
Chromium	67	(mg/kg)
Cobalt	12	(mg/kg)
Copper	480	(mg/kg)
Iron	26000	(mg/kg)
Lead	1100	(mg/kg)
Magnesium	6300	(mg/kg)
Manganese	240	(mg/kg)
Nickel	620	(mg/kg)
Potassium	3200	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	290	(mg/kg)
Vanadium	45	(mg/kg)
Zinc	5800	(mg/kg)

ANALYZED BY: LD 7-8-99

jvm 12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S11

ANALYZED: 07-Jul-99

STATION: X114

COMPOUND	AMOUNT	(Units)
Aluminum	21000	(mg/kg)
Barium	250	(mg/kg)
Beryllium	1.1	(mg/kg)
Calcium	5000	(mg/kg)
Chromium	33	(mg/kg)
Cobalt	8.8	(mg/kg)
Copper	36	(mg/kg)
Iron	28000	(mg/kg)
Lead	42	(mg/kg)
Magnesium	4100	(mg/kg)
Manganese	180	(mg/kg)
Nickel	26	(mg/kg)
Potassium	2100	(mg/kg)
Silver	1.1 U	(mg/kg)
Sodium	150	(mg/kg)
Vanadium	42	(mg/kg)
Zinc	120	(mg/kg)

ANALYZED BY: 7-8-99

12 July 99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 07-Jul-99

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 990086

LABORATORY: REGION 5 CRL SAMPLE FACILITY: Sauget Area I - Dead Creek

SAMPLE: 99IE19S12 ANALYZED: 07-Jul-99

STATION: X116

COMPOUND	AMOUNT	(Units)
Aluminum	8000	(mg/kg)
Barium	100	(mg/kg)
Beryllium	0.59	(mg/kg)
Calcium	2100	(mg/kg)
Chromium	13	(mg/kg)
Cobalt	6.5	(mg/kg)
Copper	9	(mg/kg)
Iron	13000	(mg/kg)
Lead	18	(mg/kg)
Magnesium	2000	(mg/kg)
Manganese	100	(mg/kg)
Nickel	16	(mg/kg)
Potassium	950	(mg/kg)
Silver	1.2 U	(mg/kg)
Sodium	130	(mg/kg)
Vanadium	19	(mg/kg)
Zinc	62	(mg/kg)

ANALYZED BY: 7-8-99

12 July 99

UN
7-8-99

DIGESTION RECORD

Prepared By: RD Date: 7-6-99 Run Number: 1111

CLP BEAKER DIGESTION

#	Data Set	Sample Number	Notes	#	Data Set	Sample Number	Notes
1		DIGEST BLANK 1					
2		LCS 0287	0.5065g				
3	990086	99IE19S01	0.5004g				
4		S01	DUP 0.5281g				
5		S01	SPIKE 0.5005g				
6		D03 (D01)	0.5008g				
7		S02	0.5202g				
8		S03	0.5259g				
9		S04	0.5323g				
10		S05	0.5123g				
11		S06	0.5137g				
12		S07	0.5179g				
13		S08	0.5015g				
14		S09	0.5212g				
15		S10	0.5067g				
16		S11	0.5237g				
17		S11	0.5331g				
18		S11	SPIKE 0.5063g				
19		S12	0.5064g				
20		DIGEST BLANK 2					

Comments: — SPIKES: — 10ml SED SPIKE SOLN
— 2 ml Tl, Se, Sb, As (10 ppm)
— 1 ml Ag (10 ppm)

— FINAL VOLUME: 100ml

RUN 1111a

VN 7-8-99

INSTR BLK 1

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		1.76E-02	**********	**********	0.017632	0.017632	0.017632
Tl	190.864		-4.12E-03	-0.00412	**********	**********	-0.00412	-0.0042
Tl	190.883		8.65E-02	**********	0.086451	**********	0.086451	0.086451
As	193.759		9.46E-04	**********	0.000952	0.001127	0.000952	0.00103
Se	196.09		1.06E-02	**********	0.01065	**********	0.01065	0.010638
Mo	202.030		2.22E-03	**********	0.00222	0.00222	0.00222	0.00222
Se	203.985		-6.64E-02	**********	**********	-0.0627	-0.0627	-0.06269
Cr	205.552		-2.16E-03	**********	-0.00216	-0.00216	-0.00216	-0.00216
Sb	206.833		-2.12E-02	**********	**********	-0.02112	-0.02112	-0.02109
Zn	213.856		3.45E-02	**********	**********	0.034477	0.034477	0.034477
Sb	217.581		-1.77E-02	**********	-0.01768	**********	-0.01768	-0.01768
Pb	220.353		2.54E-03	**********	0.00253	0.002541	0.00253	0.00253
Co	228.616		-2.43E-03	**********	-0.00242	-0.00242	-0.00242	-0.00242
Cd	228.802		-6.25E-04	**********	-0.00063	-0.00063	-0.00063	-0.00063
Ni	231.604		5.53E-03	**********	0.005531	0.005531	0.005531	0.005531
Be	234.861		3.84E-12	**********	**********	1.9E-09	1.9E-09	3.8E-12
B	249.678		-3.46E-03	**********	-0.00349	-0.00346	-0.00349	-0.00349
Mn	257.610		-3.60E-04	**********	-0.00036	-0.00036	-0.00036	-0.00036
Fe	259.940		-7.75E-04	**********	**********	-0.00078	-0.00078	-0.00078
Fe	271.441		5.81E-02	**********	0.058327	**********	0.058327	0.058328
Mg	279.553		3.08E-04	0.000308	**********	**********	0.000308	0.000308
V	292.402		5.36E-03	**********	0.005357	0.005357	0.005357	0.005357
Al	308.215		-1.27E-01	**********	-0.12673	**********	-0.12673	-0.12673
Ca	315.887		-1.13E-02	-0.01132	**********	**********	-0.01132	-0.01132
Cu	324.754		5.16E-04	**********	0.000515	0.000515	0.000515	0.000515
Ag	328.068		-2.59E-03	**********	-0.00258	-0.00258	-0.00258	-0.00258
Ti	334.941		-1.09E-03	**********	-0.00109	-0.00109	-0.00109	-0.00109
Y	371.03		-2.69E-12	**********	-1.5E-09	1.9E-09	-1.5E-09	-2.7E-12
Mg	383.826		6.12E-03	0.006117	**********	**********	0.006117	0.006117
Ca	393.366		4.81E-03	0.004808	**********	**********	0.004808	0.004808
Al	396.152		9.06E-03	**********	**********	0.008995	0.008995	0.008995
Sr	421.552		-1.50E-12	-1.5E-12	**********	**********	-1.5E-12	-1.5E-12
Zn	481.053		8.54E-02	0.085407	**********	**********	0.085407	0.085407
Ba	493.409		-3.78E-13	-3.8E-13	**********	**********	-3.8E-13	-3.8E-13
Na	588.995		-1.59E-02	-0.01586	**********	**********	-0.01586	-0.01586
Li	670.784		1.45E-03	0.001447	**********	**********	0.001447	0.001447
K	766.49		-2.58E-02	-0.0258	**********	**********	-0.0258	-0.0258
K	769.896		1.10E-01	0.109758	**********	**********	0.109758	0.109758

7-8-99

RUN 1111a

SED5 AQC 1

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		5.07E+00	**********	**********	5.065129	5.065129	5.065139
Tl	190.864		4.86E+00	4.863535	**********	**********	4.863535	4.785656
Tl	190.883		5.01E+00	**********	4.92398	**********	4.92398	4.923988
As	193.759		5.05E+00	**********	5.125259	5.122595	5.125259	5.122712
Se	196.09		5.23E+00	**********	5.243129	**********	5.243129	5.234573
Mo	202.030		5.02E+00	**********	5.016639	5.016638	5.016639	5.016648
Se	203.985		7.82E+00	**********	**********	5.358335	5.358335	5.349827
Cr	205.552		5.16E+00	**********	5.161398	5.161397	5.161398	5.161406
Sb	206.833		5.02E+00	**********	**********	4.960902	4.960902	4.962725
Zn	213.856		5.13E+00	**********	**********	5.102287	5.102287	5.102292
Sb	217.581		5.03E+00	**********	5.026418	**********	5.026418	5.018846
Pb	220.353		5.22E+00	**********	5.223745	5.223722	5.223745	5.223756
Co	228.616		5.25E+00	**********	5.255546	5.255545	5.255546	5.255554
Cd	228.802		5.12E+00	**********	5.105612	5.105616	5.105612	5.105753
Ni	231.604		5.12E+00	**********	5.115725	5.115724	5.115725	5.115735
Be	234.861		5.23E+00	**********	**********	5.226701	5.226701	5.226711
B	249.678		5.22E+00	**********	5.218597	5.215779	5.218597	5.215637
Mn	257.610		5.21E+00	**********	5.20962	5.209619	5.20962	5.209628
Fe	259.940		5.03E+00	**********	**********	5.041816	5.041816	5.041824
Fe	271.441		5.37E+00	**********	4.857012	**********	4.857012	4.85427
Mg	279.553		5.29E+00	5.287587	**********	**********	5.287587	5.287587
V	292.402		5.21E+00	**********	5.221211	5.22121	5.221211	5.221223
Al	308.215		5.23E+00	**********	5.179415	**********	5.179415	5.179546
Ca	315.887		5.26E+00	5.262528	**********	**********	5.262528	5.262528
Cu	324.754		4.78E+00	**********	4.777612	4.777611	4.777612	4.777619
Ag	328.068		4.88E-01	**********	0.487802	0.487801	0.487802	0.487796
Ti	334.941		4.99E+00	**********	4.985121	4.98512	4.985121	4.98513
Y	371.03		5.02E+00	**********	5.016013	5.016012	5.016013	5.016022
Mg	383.826		4.98E+00	4.978487	**********	**********	4.978487	4.978487
Ca	393.366		5.10E+00	5.095584	**********	**********	5.095584	5.095584
Al	396.152		5.03E+00	**********	**********	4.893207	4.893207	4.893216
Sr	421.552		4.66E+00	4.663841	**********	**********	4.663841	4.663841
Zn	481.053		4.73E+00	4.725874	**********	**********	4.725874	4.725874
Ba	493.409		4.80E+00	4.800389	**********	**********	4.800389	4.800389
Na	588.995		5.05E+00	5.045471	**********	**********	5.045471	5.045471
Li	670.784		4.94E+00	4.936437	**********	**********	4.936437	4.936437
K	766.49		4.68E+00	4.677032	**********	**********	4.677032	4.677032
K	769.896		4.77E+00	4.765984	**********	**********	4.765984	4.765984

7-8-99

RUN 1111a

HIGH AQC 1

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		9.80E-02	**********	**********	0.097924	0.097924	0.097953
Tl	190.864		3.47E-01	0.347287	**********	**********	0.347287	0.21466
Tl	190.883		2.17E-03	**********	0.00198	**********	0.00198	0.002
As	193.759		-5.73E-02	**********	-0.00064	-0.00264	-0.00064	-0.00289
Se	196.09		2.85E-02	**********	0.028474	**********	0.028474	0.028511
Mo	202.030		8.14E-03	**********	0.008119	0.00811	0.008119	0.008139
Se	203.985		-1.59E-01	**********	**********	-0.15877	-0.15877	-0.15379
Cr	205.552		4.32E-03	**********	0.004299	0.00429	0.004299	0.004318
Sb	206.833		-4.52E-02	**********	**********	-0.00842	-0.00842	0.028739
Zn	213.856		9.51E+01	**********	**********	95.12922	95.12922	95.12924
Sb	217.581		-1.47E-02	**********	-0.00169	**********	-0.00169	-0.00167
Pb	220.353		4.65E-03	**********	0.012366	0.012053	0.012366	0.012376
Co	228.616		-1.21E-03	**********	-0.00121	-0.00122	-0.00121	-0.00119
Cd	228.802		2.50E-03	**********	0.002481	0.002476	0.002481	0.002598
Ni	231.604		5.03E-03	**********	0.005008	0.005	0.005008	0.005028
Be	234.861		3.34E-04	**********	**********	0.000305	0.000305	0.000334
B	249.678		4.82E-02	**********	0.003624	0.004549	0.003624	0.003634
Mn	257.610		7.20E-04	**********	0.0007	0.000691	0.0007	0.00072
Fe	259.940		9.50E+01	**********	**********	95.04552	95.04552	95.04554
Fe	271.441		9.71E+01	**********	97.07855	**********	97.07855	97.07856
Mg	279.553		5.12E+01	51.18119	**********	**********	51.18119	51.18119
V	292.402		-1.33E-02	**********	-0.01331	-0.01332	-0.01331	-0.01329
Al	308.215		1.02E+02	**********	101.5485	**********	101.5485	101.5486
Ca	315.887		1.02E+02	102.2527	**********	**********	102.2527	102.2527
Cu	324.754		-1.50E-02	**********	-0.01499	-0.015	-0.01499	-0.01497
Ag	328.068		-3.68E-03	**********	-0.00372	-0.00373	-0.00372	-0.0037
Ti	334.941		-2.46E-03	**********	-0.00248	-0.00248	-0.00248	-0.00246
Y	371.03		2.46E-03	**********	0.002445	0.002436	0.002445	0.002465
Mg	383.826		5.53E+01	55.29047	**********	**********	55.29047	55.29047
Ca	393.366		8.23E+01	82.32629	**********	**********	82.32629	82.32629
Al	396.152		9.76E+01	**********	**********	97.55028	97.55028	97.5503
Sr	421.552		1.19E-03	0.001188	**********	**********	0.001188	0.001188
Zn	481.053		9.59E+01	95.88043	**********	**********	95.88043	95.88043
Ba	493.409		3.61E-04	0.000361	**********	**********	0.000361	0.000361
Na	588.995		9.71E+01	97.14086	**********	**********	97.14086	97.14086
Li	670.784		5.03E-04	0.000503	**********	**********	0.000503	0.000503
K	766.49		1.00E+02	100.4176	**********	**********	100.4176	100.4176
K	769.896		9.99E+01	99.89113	**********	**********	99.89113	99.89113

7-8-99

RUN 1111a

Analyte	WASH nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		3.04E-02	**********	**********	0.030365	0.030365	0.030365
Tl	190.864		-5.46E-02	-0.05463	**********	**********	-0.05463	-0.05459
Tl	190.883		5.00E-02	**********	0.049892	**********	0.049892	0.049892
As	193.759		-1.53E-02	**********	-0.01528	-0.01518	-0.01528	-0.01525
Se	196.09		1.55E-02	**********	0.015484	**********	0.015484	0.015472
Mo	202.030		4.44E-03	**********	0.00444	0.00444	0.00444	0.00444
Se	203.985		-3.46E-02	**********	**********	-0.03389	-0.03389	-0.03389
Cr	205.552		-7.20E-04	**********	-0.00072	-0.00072	-0.00072	-0.00072
Sb	206.833		-2.46E-03	**********	**********	-0.00244	-0.00244	-0.00244
Zn	213.856		3.07E-02	**********	**********	0.030592	0.030592	0.030592
Sb	217.581		-1.85E-02	**********	-0.0185	**********	-0.0185	-0.0185
Pb	220.353		1.38E-05	**********	8.7E-06	0.000014	8.7E-06	8.7E-06
Co	228.616		-3.64E-03	**********	-0.00363	-0.00363	-0.00363	-0.00363
Cd	228.802		1.25E-03	**********	0.001277	0.001277	0.001277	0.001277
Ni	231.604		1.36E-02	**********	0.013576	0.013576	0.013576	0.013576
Be	234.861		3.84E-12	**********	**********	-5.1E-09	-5.1E-09	3.8E-12
B	249.678		7.35E-03	**********	0.007362	0.007354	0.007362	0.007362
Mn	257.610		-1.08E-03	**********	-0.00108	-0.00108	-0.00108	-0.00108
Fe	259.940		-3.10E-03	**********	**********	-0.00311	-0.00311	-0.00311
Fe	271.441		-1.94E-02	**********	-0.01907	**********	-0.01907	-0.01907
Mg	279.553		-4.32E-03	-0.00432	**********	**********	-0.00432	-0.00432
V	292.402		3.65E-03	**********	0.003644	0.003644	0.003644	0.003644
Al	308.215		-7.79E-02	**********	-0.07805	**********	-0.07805	-0.07805
Ca	315.887		-2.98E-02	-0.02984	**********	**********	-0.02984	-0.02984
Cu	324.754		3.59E-02	**********	0.03587	0.03587	0.03587	0.03587
Ag	328.068		-3.76E-03	**********	-0.00375	-0.00375	-0.00375	-0.00375
Ti	334.941		-1.64E-03	**********	-0.00164	-0.00164	-0.00164	-0.00164
Y,	371.03		4.93E-04	**********	0.000493	0.000493	0.000493	0.000493
Mg	383.826		-9.18E-03	-0.00918	**********	**********	-0.00918	-0.00918
Ca	393.366		-2.95E-02	-0.02953	**********	**********	-0.02953	-0.02953
Al	396.152		-1.10E-02	**********	**********	-0.01117	-0.01117	-0.01117
Sr	421.552		-7.92E-04	-0.00079	**********	**********	-0.00079	-0.00079
Zn	481.053		-1.09E-12	-1.1E-12	**********	**********	-1.1E-12	-1.1E-12
Ba	493.409		-3.78E-13	-3.8E-13	**********	**********	-3.8E-13	-3.8E-13
Na	588.995		-2.64E-02	-0.02644	**********	**********	-0.02644	-0.02644
Li	670.784		-1.13E-03	-0.00113	**********	**********	-0.00113	-0.00113
K	766.49		-4.68E-02	-0.04683	**********	**********	-0.04683	-0.04683
K	769.896		6.34E-02	0.063356	**********	**********	0.063356	0.063356

7-8-99

RUN 1111a

Analyte	nm	DIGEST BLK1 RUN 1111 0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		9.01E-02	**********	**********	0.090117	0.090117	0.090117
Tl	190.864		-9.32E-03	-0.00932	**********	**********	-0.00932	-0.00932
Tl	190.883		4.56E-02	**********	0.04549	**********	0.04549	0.04549
As	193.759		-3.27E-02	**********	-0.03262	-0.03253	-0.03262	-0.0326
Se	196.09		1.06E-02	**********	0.010659	**********	0.010659	0.01063
Mo	202.030		7.40E-03	**********	0.007399	0.007399	0.007399	0.007399
Se	203.985		-4.10E-02	**********	**********	-0.0411	-0.0411	-0.0411
Cr	205.552		4.94E-13	**********	-3.7E-06	-3.7E-06	-3.7E-06	-3.7E-06
Sb	206.833		2.03E-03	**********	**********	0.002033	0.002033	0.002052
Zn	213.856		2.01E-02	**********	**********	0.020049	0.020049	0.020049
Sb	217.581		-1.08E-02	**********	-0.01077	**********	-0.01077	-0.01078
Pb	220.353		4.32E-03	**********	0.004319	0.004325	0.004319	0.004319
Co	228.616		-2.43E-03	**********	-0.00241	-0.00241	-0.00241	-0.00241
Cd	228.802		6.25E-04	**********	0.000681	0.000681	0.000681	0.000681
Ni	231.604		3.02E-03	**********	0.003018	0.003017	0.003018	0.003018
Be	234.861		3.84E-12	**********	**********	-1.7E-08	-1.7E-08	3.8E-12
B	249.678		4.67E-02	**********	0.046712	0.046705	0.046712	0.046712
Mn	257.610		-3.60E-04	**********	-0.00036	-0.00036	-0.00036	-0.00036
Fe	259.940		1.55E-02	**********	**********	0.015503	0.015503	0.015503
Fe	271.441		-1.23E-10	**********	0.000188	**********	0.000188	0.00019
Mg	279.553		5.52E-02	0.055204	**********	**********	0.055204	0.055204
V	292.402		4.72E-03	**********	0.004717	0.004717	0.004717	0.004717
Al	308.215		-2.92E-02	**********	-0.02937	**********	-0.02937	-0.02937
Ca	315.887		1.47E-01	0.147139	**********	**********	0.147139	0.147139
Cu	324.754		4.65E-03	**********	0.004644	0.004644	0.004644	0.004644
Ag	328.068		2.28E-03	**********	0.002288	0.002288	0.002288	0.002288
Ti	334.941		-2.73E-04	**********	-0.00027	-0.00027	-0.00027	-0.00027
Y	371.03		2.46E-04	**********	0.000246	0.000246	0.000246	0.000246
Mg	383.826		3.77E-02	0.037724	**********	**********	0.037724	0.037724
Ca	393.366		1.65E-01	0.164839	**********	**********	0.164839	0.164839
Al	396.152		4.22E-02	**********	**********	0.041984	0.041984	0.041984
Sr	421.552		1.98E-04	0.000198	**********	**********	0.000198	0.000198
Zn	481.053		4.98E-02	0.049821	**********	**********	0.049821	0.049821
Ba	493.409		1.62E-03	0.001623	**********	**********	0.001623	0.001623
Na	588.995		3.75E-01	0.375403	**********	**********	0.375403	0.375403
Li	670.784		-8.18E-04	-0.00082	**********	**********	-0.00082	-0.00082
K	766.49		3.60E-01	0.360286	**********	**********	0.360286	0.360286
K	769.896		4.43E-01	0.4426	**********	**********	0.4426	0.4426

7-8-99

RUN 1111a

Analyte	LCS 0287 nm	RUN 1111 5.07E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		2.61E+01	**********	**********	26.1047	26.1047	26.10785
Tl	190.864		1.26E+02	126.3464	**********	**********	126.3464	94.07413
Tl	190.883		6.38E+01	**********	62.79998	**********	62.79998	62.80307
As	193.759		1.07E+03	**********	1074.929	1074.911	1074.929	1074.894
Se	196.09		3.89E+01	**********	39.14417	**********	39.14417	38.98519
Mo	202.030		5.16E+01	**********	51.56473	51.56473	51.56473	51.56787
Se	203.985		9.60E+01	**********	**********	29.06916	29.06916	28.91968
Cr	205.552		1.01E+02	**********	100.5299	100.5299	100.5299	100.533
Sb	206.833		2.32E+02	**********	**********	231.4545	231.4545	231.535
Zn	213.856		2.14E+02	**********	**********	197.2253	197.2253	197.2275
Sb	217.581		2.28E+02	**********	230.8787	**********	230.8787	230.8515
Pb	220.353		2.40E+02	**********	240.444	240.4409	240.444	240.4472
Co	228.616		1.54E+02	**********	154.3377	154.3377	154.3377	154.3408
Cd	228.802		5.65E+01	**********	54.6434	54.64343	54.6434	54.64832
Ni	231.604		6.21E+01	**********	62.08941	62.08941	62.08941	62.09257
Be	234.861		2.06E+01	**********	**********	20.5642	20.5642	20.56735
B	249.678		2.90E+01	**********	18.83452	18.88044	18.83452	18.81817
Mn	257.610		2.10E+02	**********	210.3254	210.3254	210.3254	210.3285
Fe	259.940		2.20E+04	**********	**********	22047.94	22047.94	22047.94
Fe	271.441		2.22E+04	**********	22171.35	**********	22171.35	22171.35
Mg	279.553		4.17E+04	41705.78	**********	**********	41705.78	41705.78
V	292.402		6.32E+01	**********	63.33405	63.33405	63.33405	63.33723
Al	308.215		3.13E+02	**********	311.7164	**********	311.7164	311.7222
Ca	315.887		1.93E+05	192940.2	**********	**********	192940.2	192940.2
Cu	324.754		6.59E+03	**********	6591.738	6591.738	6591.738	6591.74
Ag	328.068		2.28E+01	**********	22.81339	22.81339	22.81339	22.81624
Ti	334.941		1.25E+01	**********	12.49434	12.49434	12.49434	12.49749
Y	371.03		4.48E+00	**********	4.47402	4.47402	4.47402	4.477168
Mg	383.826		1.18E+05	118280.1	**********	**********	118280.1	118280.1
Ca	393.366		1.62E+04	16176.71	**********	**********	16176.71	16176.71
Al	396.152		2.72E+02	**********	**********	270.6939	270.6939	270.697
Sr	421.552		5.40E+01	53.95529	**********	**********	53.95529	53.95529
Zn	481.053		1.85E+02	185.4849	**********	**********	185.4849	185.4849
Ba	493.409		5.20E+00	5.197676	**********	**********	5.197676	5.197676
Na	588.995		1.40E+02	139.883	**********	**********	139.883	139.883
Li	670.784		2.49E-02	0.02485	**********	**********	0.02485	0.02485
K	766.49		1.08E+02	108.3026	**********	**********	108.3026	108.3026
K	769.896		1.13E+02	112.9298	**********	**********	112.9298	112.9298

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RUN 1111a

Analyte	99IE19S01 nm	990086 5.00E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		2.88E+01	**********	**********	28.76884	28.76884	28.7751
Tl	190.864		2.21E+02	221.0289	**********	**********	221.0289	140.9371
Tl	190.883		3.21E+01	**********	32.63328	**********	32.63328	32.6396
As	193.759		2.31E+01	**********	26.93689	26.76203	26.93689	26.72557
Se	196.09		1.83E+00	**********	1.729681	**********	1.729681	1.698778
Mo	202.030		-8.87E-01	**********	-0.89372	-0.89345	-0.89372	-0.88719
Se	203.985		-1.77E+01	**********	**********	-21.3169	-21.3169	-21.3246
Cr	205.552		9.65E+00	**********	9.639686	9.639953	9.639686	9.646206
Sb	206.833		-2.24E+00	**********	**********	-2.25997	-2.25997	-2.14698
Zn	213.856		3.24E+02	**********	**********	323.53	323.53	323.5364
Sb	217.581		-1.18E+01	**********	-4.02101	**********	-4.02101	-4.02151
Pb	220.353		7.37E+01	**********	74.19608	74.17013	74.19608	74.20174
Co	228.616		5.74E+00	**********	5.492221	5.492488	5.492221	5.498735
Cd	228.802		3.00E+00	**********	2.943865	2.944431	2.943865	2.956823
Ni	231.604		2.12E+01	**********	21.19253	21.1928	21.19253	21.19898
Be	234.861		8.01E-01	**********	**********	0.794438	0.794438	0.800695
B	249.678		5.40E+01	**********	27.31911	28.52318	27.31911	27.3198
Mn	257.610		5.00E+02	**********	499.8099	499.8101	499.8099	499.8163
Fe	259.940		5.55E+04	**********	**********	55540.34	55540.34	55540.34
Fe	271.441		5.82E+04	**********	58162.6	**********	58162.6	58162.57
Mg	279.553		4.66E+03	4655.767	**********	**********	4655.767	4655.767
V	292.402		1.03E+01	**********	10.27341	10.27367	10.27341	10.27992
Al	308.215		6.18E+03	**********	6186.367	**********	6186.367	6186.373
Ca	315.887		1.57E+04	15730.86	**********	**********	15730.86	15730.86
Cu	324.754		1.74E+01	**********	17.45953	17.45979	17.45953	17.46603
Ag	328.068		-2.90E-01	**********	-0.38291	-0.38264	-0.38291	-0.37643
Ti	334.941		1.61E+02	**********	160.9517	160.952	160.9517	160.9582
Y	371.03		7.14E+00	**********	7.135902	7.136168	7.135902	7.142425
Mg	383.826		4.52E+03	4524.428	**********	**********	4524.428	4524.428
Ca	393.366		1.50E+04	14953.95	**********	**********	14953.95	14953.95
Al	396.152		5.84E+03	**********	**********	5842.148	5842.148	5842.153
Sr	421.552		5.47E+01	54.69217	**********	**********	54.69217	54.69217
Zn	481.053		2.80E+02	279.8411	**********	**********	279.8411	279.8411
Ba	493.409		3.62E+02	361.6422	**********	**********	361.6422	361.6422
Na	588.995		2.61E+02	260.9872	**********	**********	260.9872	260.9872
Li	670.784		6.38E+00	6.376351	**********	**********	6.376351	6.376351
K	766.49		9.61E+02	960.6321	**********	**********	960.6321	960.6321
K	769.896		9.47E+02	947.0851	**********	**********	947.0851	947.0851

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RUN 1111a

Analyte	99IE19S01 D nm	990086 5.28E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		3.54E+01	**********	**********	35.42086	35.42086	35.42697
Tl	190.864		2.14E+02	214.4435	**********	**********	214.4435	133.7371
Tl	190.883		3.25E+01	**********	33.0889	**********	33.0889	33.09524
As	193.759		1.95E+01	**********	23.11924	22.99102	23.11924	22.95161
Se	196.09		3.84E+00	**********	3.733283	**********	3.733283	3.706261
Mo	202.030		-1.21E-11	**********	-0.00654	-0.00611	-0.00654	-1.2E-11
Se	203.985		-1.77E+01	**********	**********	-21.6547	-21.6547	-21.6615
Cr	205.552		9.28E+00	**********	9.269704	9.270133	9.269704	9.27624
Sb	206.833		1.07E+00	**********	**********	1.061131	1.061131	1.177195
Zn	213.856		3.34E+02	**********	**********	333.9881	333.9881	333.9943
Sb	217.581		-1.08E+01	**********	-3.01276	**********	-3.01276	-3.01325
Pb	220.353		7.36E+01	**********	73.99879	73.97922	73.99879	74.00448
Co	228.616		5.97E+00	**********	5.723175	5.723604	5.723175	5.729704
Cd	228.802		3.43E+00	**********	3.384823	3.385471	3.384823	3.397446
Ni	231.604		2.16E+01	**********	21.60373	21.60416	21.60373	21.61019
Be	234.861		7.59E-01	**********	**********	0.752585	0.752585	0.758697
B	249.678		5.87E+01	**********	31.78382	33.78007	31.78382	31.78451
Mn	257.610		5.06E+02	**********	505.5666	505.5671	505.5666	505.5731
Fe	259.940		5.43E+04	**********	**********	54269.8	54269.8	54269.81
Fe	271.441		5.86E+04	**********	58616.66	**********	58616.66	58616.64
Mg	279.553		4.69E+03	4685.335	**********	**********	4685.335	4685.335
V	292.402		8.08E+00	**********	8.068066	8.068496	8.068066	8.074599
Al	308.215		5.88E+03	**********	5884.29	**********	5884.29	5884.296
Ca	315.887		1.64E+04	16437.56	**********	**********	16437.56	16437.56
Cu	324.754		1.80E+01	**********	18.06487	18.0653	18.06487	18.07139
Ag	328.068		-6.96E-01	**********	-0.79401	-0.79358	-0.79401	-0.78751
Ti	334.941		1.65E+02	**********	165.1671	165.1675	165.1671	165.1736
Y	371.03		7.33E+00	**********	7.321342	7.321771	7.321342	7.327882
Mg	383.826		4.48E+03	4477.084	**********	**********	4477.084	4477.084
Ca	393.366		1.45E+04	14472.09	**********	**********	14472.09	14472.09
Al	396.152		5.62E+03	**********	**********	5621.681	5621.681	5621.687
Sr	421.552		5.44E+01	54.41087	**********	**********	54.41087	54.41087
Zn	481.053		2.88E+02	288.0739	**********	**********	288.0739	288.0739
Ba	493.409		3.67E+02	367.4622	**********	**********	367.4622	367.4622
Na	588.995		2.63E+02	263.0669	**********	**********	263.0669	263.0669
Li	670.784		6.36E+00	6.363655	**********	**********	6.363655	6.363655
K	766.49		9.99E+02	998.5549	**********	**********	998.5549	998.5549
K	769.896		9.65E+02	965.166	**********	**********	965.166	965.166

RUN 1111a

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99IE19S01 S 990086

Analyte	nm	5.01E-01 raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sn	189.989	2.74E+01	**********	**********	27.39295	27.39295	27.39938
Tl	190.864	2.41E+02	240.5624	**********	**********	240.5624	158.0735
Tl	190.883	7.29E+01	**********	73.51421	**********	73.51421	73.52079
As	193.759	5.75E+01	**********	63.46763	63.16836	63.46763	63.166
Se	196.09	3.57E+01	**********	35.63517	**********	35.63517	35.39813
Mo	202.030	-1.48E-01	**********	-0.15466	-0.15427	-0.15466	-0.14784
Se	203.985	8.59E+01	**********	**********	40.30308	40.30308	40.15191
Cr	205.552	1.15E+02	**********	115.1436	115.144	115.1436	115.1504
Sb	206.833	2.61E+01	**********	**********	25.03211	25.03211	25.22645
Zn	213.856	5.31E+02	**********	**********	529.8408	529.8408	529.8472
Sb	217.581	9.38E+00	**********	16.90291	**********	16.90291	16.88821
Pb	220.353	2.81E+02	**********	281.5257	281.5015	281.5257	281.5317
Co	228.616	1.07E+02	**********	107.1593	107.1597	107.1593	107.1661
Cd	228.802	2.48E+01	**********	24.71448	24.71538	24.71448	24.73136
Ni	231.604	1.28E+02	**********	127.8418	127.8421	127.8418	127.8485
Be	234.861	1.16E+01	**********	**********	11.60132	11.60132	11.60776
B	249.678	2.74E+02	**********	247.1334	248.9919	247.1334	247.1246
Mn	257.610	9.15E+02	**********	915.3386	915.339	915.3386	915.3453
Fe	259.940	5.44E+04	**********	**********	54427.35	54427.35	54427.35
Fe	271.441	5.85E+04	**********	58486.64	**********	58486.64	58486.61
Mg	279.553	4.85E+03	4846.472	**********	**********	4846.472	4846.472
V	292.402	1.10E+02	**********	110.3157	110.3161	110.3157	110.3225
Al	308.215	7.18E+03	**********	7183.916	**********	7183.916	7183.924
Ca	315.887	1.63E+04	16270.97	**********	**********	16270.97	16270.97
Cu	324.754	1.13E+02	**********	112.9524	112.9527	112.9524	112.9591
Ag	328.068	1.95E+01	**********	19.36882	19.36921	19.36882	19.37526
Ti	334.941	1.93E+02	**********	193.0282	193.0286	193.0282	193.035
Y	371.03	1.07E+02	**********	106.7142	106.7146	106.7142	106,721
Mg	383.826	4.60E+03	4601.544	**********	**********	4601.544	4601.544
Ca	393.366	1.44E+04	14355.84	**********	**********	14355.84	14355.84
Al	396.152	6.86E+03	**********	**********	6860.372	6860.372	6860.377
Sr	421.552	2.51E+02	250.5762	**********	**********	250.5762	250.5762
Zn	481.053	4.89E+02	488.8241	**********	**********	488.8241	488.8241
Ba	493.409	4.72E+02	472.2098	**********	**********	472.2098	472.2098
Na	588.995	3.04E+02	303.9841	**********	**********	303.9841	303.9841
Li	670.784	1.06E+02	105.5597	**********	**********	105.5597	105.5597
K	766.49	1.15E+03	1150.428	**********	**********	1150.428	1150.428
K	769.896	1.15E+03	1152.999	**********	**********	1152.999	1152.999

RUN 1111a

7-8-99

Analyte	99IE19S02 nm	990086 5.20E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		1.81E+01	**********	**********	18.0743	18.0743	18.07664
Tl	190.864		6.58E+01	65.84347	**********	**********	65.84347	41.24124
Tl	190.883		1.64E+01	**********	17.04668	**********	17.04668	17.0489
As	193.759		-5.66E+00	**********	-2.44482	-2.66285	-2.44482	-2.68182
Se	196.09		5.57E-01	**********	0.513905	**********	0.513905	0.483523
Mo	202.030		-1.20E-11	**********	-0.00237	-0.00235	-0.00237	-1.2E-11
Se	203.985		-8.77E+00	**********	**********	-12.4529	-12.4529	-12.4664
Cr	205.552		9.28E+00	**********	9.276263	9.276283	9.276263	9.278627
Sb	206.833		8.01E-01	**********	**********	0.71476	0.71476	0.749432
Zn	213.856		1.42E+02	**********	**********	142.164	142.164	142.1666
Sb	217.581		-3.67E+00	**********	-1.32662	**********	-1.32662	-1.32694
Pb	220.353		3.56E+01	**********	35.9619	35.9312	35.9619	35.96345
Co	228.616		6.22E+00	**********	5.937022	5.937042	5.937022	5.93937
Cd	228.802		1.56E+00	**********	1.562577	1.562971	1.562577	1.570395
Ni	231.604		2.26E+01	**********	22.61263	22.61265	22.61263	22.6149
Be	234.861		6.42E-01	**********	**********	0.639503	0.639503	0.641849
B	249.678		2.87E+01	**********	20.53538	20.5054	20.53538	20.5357
Mn	257.610		2.78E+02	**********	278.4932	278.4932	278.4932	278.4956
Fe	259.940		1.79E+04	**********	**********	17895.69	17895.69	17895.69
Fe	271.441		1.78E+04	**********	17831.09	**********	17831.09	17831.06
Mg	279.553		5.27E+03	5268.717	**********	**********	5268.717	5268.717
V	292.402		1.29E+01	**********	12.84948	12.8495	12.84948	12.85182
Al	308.215		5.22E+03	**********	5219.602	**********	5219.602	5219.603
Ca	315.887		1.36E+04	13631.42	**********	**********	13631.42	13631.42
Cu	324.754		1.22E+01	**********	12.30303	12.30305	12.30303	12.30537
Ag	328.068		-4.23E-01	**********	-0.46944	-0.46942	-0.46944	-0.46709
Ti	334.941		1.90E+02	**********	190.0233	190.0233	190.0233	190.0256
Y	371.03		8.06E+00	**********	8.052783	8.052804	8.052783	8.055149
Mg	383.826		5.16E+03	5155.397	**********	**********	5155.397	5155.397
Ca	393.366		1.26E+04	12593.14	**********	**********	12593.14	12593.14
Al	396.152		4.82E+03	**********	**********	4816.223	4816.223	4816.225
Sr	421.552		3.12E+01	31.21605	**********	**********	31.21605	31.21605
Zn	481.053		8.48E+01	84.82724	**********	**********	84.82724	84.82724
Ba	493.409		1.86E+02	186.348	**********	**********	186.348	186.348
Na	588.995		1.93E+02	193.118	**********	**********	193.118	193.118
Li	670.784		5.83E+00	5.831204	**********	**********	5.831204	5.831204
K	766.49		1.02E+03	1016.108	**********	**********	1016.108	1016.108
K	769.896		1.03E+03	1033.172	**********	**********	1033.172	1033.172

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RUN 1111a

Analyte	nm	99IE19S03 990086 5.26E-01	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sn	189.989		3.26E+01	**********	**********	32.59025	32.59025	32.59505
Tl	190.864		1.00E+02	100.4153	**********	**********	100.4153	60.3065
Tl	190.883		2.85E+01	**********	29.24258	**********	29.24258	29.24713
As	193.759		-1.41E+00	**********	8.531178	7.771118	8.531178	7.750912
Se	196.09		3.58E+00	**********	3.600784	**********	3.600784	3.526813
Mo	202.030		1.83E+00	**********	1.824298	1.824241	1.824298	1.829044
Se	203.985		5.35E+00	**********	**********	-9.3435	-9.3435	-9.2199
Cr	205.552		3.90E+01	**********	39.03535	39.0353	39.03535	39.04009
Sb	206.833		3.47E+00	**********	**********	4.403622	4.403622	5.668935
Zn	213.856		3.47E+03	**********	**********	3466.799	3466.799	3466.803
Sb	217.581		-2.55E+00	**********	1.235656	**********	1.235656	1.23628
Pb	220.353		1.83E+02	**********	184.4514	184.3473	184.4514	184.4541
Co	228.616		1.09E+01	**********	10.59762	10.59756	10.59762	10.60235
Cd	228.802		2.77E+01	**********	27.66771	27.66895	27.66771	27.6894
Ni	231.604		3.35E+02	**********	334.6119	334.6119	334.6119	334.6166
Be	234.861		1.21E+00	**********	**********	1.201492	1.201492	1.206295
B	249.678		3.92E+01	**********	25.80808	26.50728	25.80808	25.80898
Mn	257.610		2.03E+02	**********	202.6329	202.6329	202.6329	202.6376
Fe	259.940		2.77E+04	**********	**********	27662.59	27662.59	27662.59
Fe	271.441		2.92E+04	**********	29186.63	**********	29186.63	29186.6
Mg	279.553		4.38E+03	4377.883	**********	**********	4377.883	4377.883
V	292.402		3.26E+01	**********	32.65321	32.65316	32.65321	32.65794
Al	308.215		1.68E+04	**********	16785.57	**********	16785.57	16785.57
Ca	315.887		6.43E+03	6429.279	**********	**********	6429.279	6429.279
Cu	324.754		3.51E+02	**********	351.4681	351.4681	351.4681	351.4728
Ag	328.068		3.45E-01	**********	0.331517	0.331459	0.331517	0.336175
Ti	334.941		2.18E+02	**********	217.9487	217.9486	217.9487	217.9534
Y	371.03		1.36E+01	**********	13.58746	13.5874	13.58746	13.5922
Mg	383.826		4.24E+03	4242.815	**********	**********	4242.815	4242.815
Ca	393.366		6.56E+03	6560.463	**********	**********	6560.463	6560.463
Al	396.152		1.54E+04	**********	**********	15419.86	15419.86	15419.86
Sr	421.552		3.33E+01	33.25002	**********	**********	33.25002	33.25002
Zn	481.053		3.26E+03	3255.15	**********	**********	3255.15	3255.15
Ba	493.409		3.04E+02	304.0936	**********	**********	304.0936	304.0936
Na	588.995		4.97E+02	496.9161	**********	**********	496.9161	496.9161
Li	670.784		1.47E+01	14.65934	**********	**********	14.65934	14.65934
K	766.49		2.84E+03	2837.198	**********	**********	2837.198	2837.198
K	769.896		2.75E+03	2754.052	**********	**********	2754.052	2754.052

78-79

RUN 1111a

Analyte	99IE19D03 nm	990086 5.01E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		3.15E+01	**********	**********	31.48616	31.48616	31.49041
Tl	190.864		1.01E+02	100.7298	**********	**********	100.7298	64.05043
Tl	190.883		3.02E+01	**********	31.04046	**********	31.04046	31.04434
As	193.759		4.03E+00	**********	11.39105	11.13993	11.39105	11.11492
Se	196.09		-2.89E-01	**********	-0.27625	**********	-0.27625	-0.33977
Mo	202.030		1.03E+00	**********	1.030149	1.029971	1.030149	1.034231
Se	203.985		-3.50E+00	**********	**********	-17.1291	-17.1291	-16.9998
Cr	205.552		3.61E+01	**********	36.10218	36.102	36.10218	36.10626
Sb	206.833		3.46E+00	**********	**********	4.427424	4.427424	5.715618
Zn	213.856		3.50E+03	**********	**********	3495.579	3495.579	3495.583
Sb	217.581		-3.57E+00	**********	-0.14989	**********	-0.14989	-0.14956
Pb	220.353		2.86E+02	**********	287.0583	287.0222	287.0583	287.0608
Co	228.616		9.77E+00	**********	9.410241	9.410062	9.410241	9.414301
Cd	228.802		2.83E+01	**********	28.3027	28.30295	28.3027	28.3193
Ni	231.604		3.52E+02	**********	351.7857	351.7855	351.7857	351.7896
Be	234.861		1.00E+00	**********	**********	0.995809	0.995809	1.000069
B	249.678		3.07E+01	**********	18.41311	18.97614	18.41311	18.41374
Mn	257.610		1.80E+02	**********	180.2237	180.2235	180.2237	180.2277
Fe	259.940		2.55E+04	**********	**********	25524.96	25524.96	25524.96
Fe	271.441		2.68E+04	**********	26752.51	**********	26752.51	26752.47
Mg	279.553		3.78E+03	3776.779	**********	**********	3776.779	3776.779
V	292.402		2.90E+01	**********	29.01382	29.01364	29.01382	29.01787
Al	308.215		1.23E+04	**********	12285.23	**********	12285.23	12285.23
Ca	315.887		6.56E+03	6560.333	**********	**********	6560.333	6560.333
Cu	324.754		5.41E+02	**********	540.6423	540.6421	540.6423	540.6463
Ag	328.068		8.95E-01	**********	0.881917	0.881738	0.881917	0.885927
Ti	334.941		2.44E+02	**********	243.6921	243.692	243.6921	243.6962
Y	371.03		1.26E+01	**********	12.64514	12.64496	12.64514	12.64922
Mg	383.826		3.59E+03	3588.801	**********	**********	3588.801	3588.801
Ca	393.366		6.58E+03	6581.333	**********	**********	6581.333	6581.333
Al	396.152		1.18E+04	**********	**********	11812.72	11812.72	11812.72
Sr	421.552		3.02E+01	30.21089	**********	**********	30.21089	30.21089
Zn	481.053		3.31E+03	3314.907	**********	**********	3314.907	3314.907
Ba	493.409		3.08E+02	307.6689	**********	**********	307.6689	307.6689
Na	588.995		4.49E+02	448.9723	**********	**********	448.9723	448.9723
Li	670.784		1.15E+01	11.51099	**********	**********	11.51099	11.51099
K	766.49		2.14E+03	2137.655	**********	**********	2137.655	2137.655
K	769.896		2.17E+03	2166.168	**********	**********	2166.168	2166.168

7-8-99

RUN 1111a

Analyte	99IE19S04 nm	990086 5.32E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		3.13E+01	**********	**********	31.27897	31.27897	31.28306
Tl	190.864		8.72E+01	87.23464	**********	**********	87.23464	55.20717
Tl	190.883		2.53E+01	**********	26.02175	**********	26.02175	26.02564
As	193.759		-8.87E-01	**********	8.463908	7.803676	8.463908	7.802769
Se	196.09		-6.17E+00	**********	-6.16108	**********	-6.16108	-6.24075
Mo	202.030		4.17E-01	**********	0.412949	0.412921	0.412949	0.417012
Se	203.985		9.01E+00	**********	**********	-4.90485	-4.90485	-4.84435
Cr	205.552		3.69E+01	**********	36.94327	36.94324	36.94327	36.94732
Sb	206.833		3.27E+00	**********	**********	3.730166	3.730166	4.52706
Zn	213.856		2.18E+03	**********	**********	2173.178	2173.178	2173.182
Sb	217.581		-5.21E+00	**********	-2.22906	**********	-2.22906	-2.22849
Pb	220.353		1.72E+02	**********	172.7357	172.6476	172.7357	172.738
Co	228.616		8.96E+00	**********	8.661183	8.661156	8.661183	8.665229
Cd	228.802		6.69E+00	**********	6.672184	6.673285	6.672184	6.692183
Ni	231.604		3.50E+02	**********	350.2369	350.2369	350.2369	350.2408
Be	234.861		1.13E+00	**********	**********	1.124975	1.124975	1.129066
B	249.678		3.33E+01	**********	22.63587	22.98107	22.63587	22.63687
Mn	257.610		2.48E+02	**********	247.6097	247.6096	247.6097	247.6137
Fe	259.940		2.25E+04	**********	**********	22461.34	22461.34	22461.34
Fe	271.441		2.32E+04	**********	23214.37	**********	23214.37	23214.34
Mg	279.553		6.40E+03	6395.545	**********	**********	6395.545	6395.545
V	292.402		3.48E+01	**********	34.83794	34.83792	34.83794	34.84199
Al	308.215		1.56E+04	**********	15608.3	**********	15608.3	15608.3
Ca	315.887		2.01E+04	20111.07	**********	**********	20111.07	20111.07
Cu	324.754		6.85E+02	**********	685.3042	685.3042	685.3042	685.3082
Ag	328.068		1.06E+00	**********	1.040671	1.040643	1.040671	1.044645
Ti	334.941		2.04E+02	**********	203.8984	203.8984	203.8984	203.9025
Y	371.03		1.21E+01	**********	12.08184	12.08181	12.08184	12.0859
Mg	383.826		6.49E+03	6486.998	**********	**********	6486.998	6486.998
Ca	393.366		1.55E+04	15466.36	**********	**********	15466.36	15466.36
Al	396.152		1.45E+04	**********	**********	14451.51	14451.51	14451.51
Sr	421.552		4.17E+01	41.74177	**********	**********	41.74177	41.74177
Zn	481.053		2.05E+03	2046.067	**********	**********	2046.067	2046.067
Ba	493.409		2.40E+02	240.3093	**********	**********	240.3093	240.3093
Na	588.995		3.19E+02	319.0996	**********	**********	319.0996	319.0996
Li	670.784		1.37E+01	13.70278	**********	**********	13.70278	13.70278
K	766.49		2.80E+03	2803.085	**********	**********	2803.085	2803.085
K	769.896		2.89E+03	2893.942	**********	**********	2893.942	2893.942

7-8-99

RUN 1111a

Analyte	99IE19S05 nm	990086 5.12E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		1.68E+01	**********	**********	16.823	16.823	16.82578
Tl	190.864		5.94E+01	59.36894	**********	**********	59.36894	39.03749
Tl	190.883		1.10E+00	**********	1.757751	**********	1.757751	1.760256
As	193.759		4.36E+00	**********	10.69867	10.32779	10.69867	10.31245
Se	196.09		6.60E-01	**********	0.684351	**********	0.684351	0.606034
Mo	202.030		1.16E+00	**********	1.152796	1.152673	1.152796	1.155446
Se	203.985		9.63E+00	**********	**********	-9.15384	-9.15384	-9.14337
Cr	205.552		5.15E+01	**********	51.46463	51.4645	51.46463	51.46727
Sb	206.833		1.63E+00	**********	**********	1.71315	1.71315	2.339248
Zn	213.856		1.72E+03	**********	**********	1714.585	1714.585	1714.588
Sb	217.581		-2.56E+00	**********	-0.87258	**********	-0.87258	-0.87233
Pb	220.353		5.44E+02	**********	545.1268	545.0757	545.1268	545.1281
Co	228.616		7.18E+00	**********	6.89969	6.899567	6.89969	6.902322
Cd	228.802		1.02E+01	**********	10.22511	10.22562	10.22511	10.23855
Ni	231.604		1.30E+02	**********	130.2319	130.2318	130.2319	130.2345
Be	234.861		8.47E-01	**********	**********	0.844498	0.844498	0.847271
B	249.678		2.73E+01	**********	20.516	20.43422	20.516	20.51661
Mn	257.610		2.05E+02	**********	204.9223	204.9222	204.9223	204.9249
Fe	259.940		1.49E+04	**********	**********	14877.66	14877.66	14877.66
Fe	271.441		1.47E+04	**********	14700.81	**********	14700.81	14700.79
Mg	279.553		9.49E+03	9493.763	**********	**********	9493.763	9493.763
V	292.402		3.34E+01	**********	33.50447	33.50435	33.50447	33.5071
Al	308.215		1.04E+04	**********	10358.24	**********	10358.24	10358.25
Ca	315.887		5.89E+04	58861.14	**********	**********	58861.14	58861.14
Cu	324.754		2.21E+02	**********	221.4978	221.4977	221.4978	221.5004
Ag	328.068		7.48E-01	**********	0.744095	0.743972	0.744095	0.74662
Ti	334.941		1.93E+02	**********	192.687	192.6869	192.687	192.6896
Y	371.03		9.82E+00	**********	9.812588	9.812465	9.812588	9.815237
Mg	383.826		1.04E+04	10361.13	**********	**********	10361.13	10361.13
Ca	393.366		1.61E+04	16051.21	**********	**********	16051.21	16051.21
Al	396.152		9.69E+03	**********	**********	9689.683	9689.683	9689.685
Sr	421.552		7.50E+01	74.99146	**********	**********	74.99146	74.99146
Zn	481.053		1.61E+03	1609.828	**********	**********	1609.828	1609.828
Ba	493.409		1.63E+02	163.3515	**********	**********	163.3515	163.3515
Na	588.995		2.97E+02	296.9823	**********	**********	296.9823	296.9823
Li	670.784		1.00E+01	10.04871	**********	**********	10.04871	10.04871
K	766.49		2.04E+03	2038.93	**********	**********	2038.93	2038.93
K	769.896		2.11E+03	2112.142	**********	**********	2112.142	2112.142

RUN 1111a

7-8-97

Analyte	WASH nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		3.04E-02	**********	**********	0.030365	0.030365	0.030365
Tl	190.864		6.50E-04	0.00065	**********	**********	0.00065	0.000662
Tl	190.883		3.87E-02	**********	0.038576	**********	0.038576	0.038576
As	193.759		6.02E-03	**********	0.00602	0.006141	0.00602	0.006019
Se	196.09		3.87E-02	**********	0.038679	**********	0.038679	0.038668
Mo	202.030		5.18E-03	**********	0.005179	0.005179	0.005179	0.005179
Se	203.985		-5.39E-02	**********	**********	-0.05318	-0.05318	-0.05318
Cr	205.552		-2.16E-03	**********	-0.00216	-0.00216	-0.00216	-0.00216
Sb	206.833		8.55E-04	**********	**********	0.000875	0.000875	0.000894
Zn	213.856		-5.02E-03	**********	**********	-0.00504	-0.00504	-0.00504
Sb	217.581		-2.44E-02	**********	-0.0244	**********	-0.0244	-0.0244
Pb	220.353		2.64E-03	**********	0.002635	0.002635	0.002635	0.002635
Co	228.616		-9.23E-13	**********	0.000014	0.000014	0.000014	0.000014
Cd	228.802		6.25E-04	**********	0.000615	0.000614	0.000615	0.000615
Ni	231.604		4.02E-03	**********	0.004022	0.004022	0.004022	0.004022
Be	234.861		3.34E-04	**********	**********	0.000334	0.000334	0.000334
B	249.678		2.09E-03	**********	0.002099	0.002094	0.002099	0.002099
Mn	257.610		-1.80E-03	**********	-0.0018	-0.0018	-0.0018	-0.0018
Fe	259.940		-6.98E-03	**********	**********	-0.00698	-0.00698	-0.00698
Fe	271.441		-1.94E-02	**********	-0.01942	**********	-0.01942	-0.01941
Mg	279.553		-4.32E-03	-0.00432	**********	**********	-0.00432	-0.00432
V	292.402		3.86E-03	**********	0.003856	0.003856	0.003856	0.003856
Al	308.215		-2.92E-02	**********	-0.02935	**********	-0.02935	-0.02935
Ca	315.887		-2.47E-02	-0.02469	**********	**********	-0.02469	-0.02469
Cu	324.754		2.58E-03	**********	0.002579	0.002579	0.002579	0.002579
Ag	328.068		-8.03E-04	**********	-0.00079	-0.00079	-0.00079	-0.00079
Ti	334.941		-1.36E-03	**********	-0.00136	-0.00136	-0.00136	-0.00136
Y	371.03		-2.46E-04	**********	-0.00025	-0.00025	-0.00025	-0.00025
Mg	383.826		-2.85E-02	-0.02855	**********	**********	-0.02855	-0.02855
Ca	393.366		-2.98E-02	-0.02976	**********	**********	-0.02976	-0.02976
Al	396.152		-2.87E-02	**********	**********	-0.02886	-0.02886	-0.02886
Sr	421.552		-3.96E-04	-0.0004	**********	**********	-0.0004	-0.0004
Zn	481.053		4.80E-02	0.048042	**********	**********	0.048042	0.048042
Ba	493.409		-3.61E-04	-0.00036	**********	**********	-0.00036	-0.00036
Na	588.995		-4.76E-02	-0.04759	**********	**********	-0.04759	-0.04759
Li	670.784		-1.45E-03	-0.00145	**********	**********	-0.00145	-0.00145
K	766.49		-5.35E-02	-0.05352	**********	**********	-0.05352	-0.05352
K	769.896		9.01E-02	0.090126	**********	**********	0.090126	0.090126

7-8-99

RUN 1111a

INSTR BLK 2

Analyte	nm	0.00E+00 raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989	3.72E-02	**********	**********	0.037222	0.037222	0.037222
Tl	190.864	-3.34E-02	-0.03338	**********	**********	-0.03338	-0.03341
Tl	190.883	3.17E-02	**********	0.031638	**********	0.031638	0.031638
As	193.759	1.29E-02	**********	0.012845	0.012952	0.012845	0.012897
Se	196.09	1.30E-02	**********	0.013065	**********	0.013065	0.013061
Mo	202.030	4.44E-03	**********	0.00444	0.00444	0.00444	0.00444
Se	203.985	-2.81E-02	**********	**********	-0.02856	-0.02856	-0.02856
Cr	205.552	4.94E-13	**********	-2.2E-06	-2.2E-06	-2.2E-06	-2.2E-06
Sb	206.833	4.06E-03	**********	**********	0.004061	0.004061	0.004016
Zn	213.856	5.65E-03	**********	**********	0.005649	0.005649	0.005649
Sb	217.581	-1.69E-02	**********	-0.01688	**********	-0.01688	-0.01687
Pb	220.353	1.49E-02	**********	0.014866	0.014872	0.014866	0.014866
Co	228.616	-1.21E-03	**********	-0.0012	-0.0012	-0.0012	-0.0012
Cd	228.802	3.75E-03	**********	0.003728	0.003728	0.003728	0.003728
Ni	231.604	-5.03E-04	**********	-0.0005	-0.0005	-0.0005	-0.0005
Be	234.861	-6.68E-04	**********	**********	-0.00067	-0.00067	-0.00067
B	249.678	-7.71E-03	**********	-0.00772	-0.00771	-0.00772	-0.00772
Mn	257.610	-1.08E-03	**********	-0.00108	-0.00108	-0.00108	-0.00108
Fe	259.940	-7.75E-04	**********	**********	-0.00078	-0.00078	-0.00078
Fe	271.441	1.94E-02	**********	0.019467	**********	0.019467	0.019469
Mg	279.553	9.25E-04	0.000925	**********	**********	0.000925	0.000925
V	292.402	3.00E-03	**********	0.003002	0.003002	0.003002	0.003002
Al	308.215	-8.77E-02	**********	-0.08776	**********	-0.08776	-0.08776
Ca	315.887	2.11E-02	0.021093	**********	**********	0.021093	0.021093
Cu	324.754	-5.16E-04	**********	-0.00052	-0.00052	-0.00052	-0.00052
Ag	328.068	-4.92E-04	**********	-0.00049	-0.00049	-0.00049	-0.00049
Ti	334.941	-8.19E-04	**********	-0.00082	-0.00082	-0.00082	-0.00082
Y	371.03	4.93E-04	**********	0.000493	0.000493	0.000493	0.000493
Mg	383.826	1.02E-03	0.00102	**********	**********	0.00102	0.00102
Ca	393.366	4.58E-03	0.004579	**********	**********	0.004579	0.004579
Al	396.152	-1.77E-03	**********	**********	-0.00189	-0.00189	-0.00189
Sr	421.552	-3.96E-04	-0.0004	**********	**********	-0.0004	-0.0004
Zn	481.053	-1.17E-01	-0.11744	**********	**********	-0.11744	-0.11744
Ba	493.409	3.61E-04	0.000361	**********	**********	0.000361	0.000361
Na	588.995	-1.19E-02	-0.0119	**********	**********	-0.0119	-0.0119
Li	670.784	-1.26E-03	-0.00126	**********	**********	-0.00126	-0.00126
K	766.49	-9.56E-04	-0.00096	**********	**********	-0.00096	-0.00096
K	769.896	7.50E-02	0.074956	**********	**********	0.074956	0.074956

RUN 1111a

7-8-99

SED5 AQC 2

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		5.20E+00	**********	**********	5.201283	5.201283	5.201293
Tl	190.864		4.95E+00	4.952199	**********	**********	4.952199	4.872348
Tl	190.883		4.96E+00	**********	4.872581	**********	4.872581	4.87259
As	193.759		5.10E+00	**********	5.17813	5.175493	5.17813	5.175478
Se	196.09		5.28E+00	**********	5.300292	**********	5.300292	5.291857
Mo	202.030		5.33E+00	**********	5.328145	5.328144	5.328145	5.328154
Se	203.985		7.85E+00	**********	**********	5.315553	5.315553	5.306718
Cr	205.552		5.34E+00	**********	5.341346	5.341345	5.341346	5.341354
Sb	206.833		5.07E+00	**********	**********	5.012416	5.012416	5.014313
Zn	213.856		5.18E+00	**********	**********	5.150034	5.150034	5.150039
Sb	217.581		5.03E+00	**********	5.023606	**********	5.023606	5.015819
Pb	220.353		5.30E+00	**********	5.300057	5.300021	5.300057	5.300069
Co	228.616		5.41E+00	**********	5.416342	5.416341	5.416342	5.41635
Cd	228.802		5.20E+00	**********	5.191113	5.191116	5.191113	5.191253
Ni	231.604		5.38E+00	**********	5.379639	5.379638	5.379639	5.379649
Be	234.861		5.38E+00	**********	**********	5.375282	5.375282	5.375292
B	249.678		5.23E+00	**********	5.22912	5.226352	5.22912	5.226077
Mn	257.610		5.38E+00	**********	5.37703	5.377029	5.37703	5.377038
Fe	259.940		5.07E+00	**********	**********	5.080265	5.080265	5.080273
Fe	271.441		5.70E+00	**********	5.172228	**********	5.172228	5.169459
Mg	279.553		5.39E+00	5.385659	**********	**********	5.385659	5.385659
V	292.402		5.18E+00	**********	5.193646	5.193645	5.193646	5.193658
Al	308.215		5.41E+00	**********	5.361963	**********	5.361963	5.362098
Ca	315.887		5.21E+00	5.206451	**********	**********	5.206451	5.206451
Cu	324.754		4.82E+00	**********	4.82454	4.824539	4.82454	4.824547
Ag	328.068		4.96E-01	**********	0.495829	0.495828	0.495829	0.495823
Ti	334.941		5.03E+00	**********	5.033142	5.033141	5.033142	5.033151
Y	371.03		5.06E+00	**********	5.060627	5.060626	5.060627	5.060636
Mg	383.826		4.96E+00	4.955038	**********	**********	4.955038	4.955038
Ca	393.366		5.14E+00	5.139083	**********	**********	5.139083	5.139083
Al	396.152		5.04E+00	**********	**********	4.896811	4.896811	4.89682
Sr	421.552		4.76E+00	4.761867	**********	**********	4.761867	4.761867
Zn	481.053		4.92E+00	4.919819	**********	**********	4.919819	4.919819
Ba	493.409		4.87E+00	4.867648	**********	**********	4.867648	4.867648
Na	588.995		4.81E+00	4.812827	**********	**********	4.812827	4.812827
Li	670.784		4.86E+00	4.857456	**********	**********	4.857456	4.857456
K	766.49		4.68E+00	4.676077	**********	**********	4.676077	4.676077
K	769.896		4.65E+00	4.651765	**********	**********	4.651765	4.651765

7-8-99

RUN 1111a

HIGH AQC 2

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		9.21E-02	**********	**********	0.092046	0.092046	0.092076
Tl	190.864		3.38E-01	0.337965	**********	**********	0.337965	0.203997
Tl	190.883		1.54E-01	**********	0.154068	**********	0.154068	0.154088
As	193.759		-7.11E-02	**********	-0.01251	-0.01636	-0.01251	-0.01643
Se	196.09		-9.18E-03	**********	-0.00921	**********	-0.00921	-0.00917
Mo	202.030		1.04E-02	**********	0.010339	0.01033	0.010339	0.010359
Se	203.985		-6.22E-02	**********	**********	-0.0618	-0.0618	-0.0568
Cr	205.552		1.44E-03	**********	0.001415	0.001406	0.001415	0.001436
Sb	206.833		-4.22E-02	**********	**********	-0.00527	-0.00527	0.032662
Zn	213.856		9.55E+01	**********	**********	95.45102	95.45102	95.45104
Sb	217.581		-1.84E-02	**********	-0.00522	**********	-0.00522	-0.00521
Pb	220.353		1.39E-02	**********	0.021895	0.021354	0.021895	0.021905
Co	228.616		-3.23E-03	**********	-0.00323	-0.00323	-0.00323	-0.00321
Cd	228.802		1.25E-03	**********	0.001252	0.001249	0.001252	0.001372
Ni	231.604		4.53E-03	**********	0.004506	0.004497	0.004506	0.004526
Be	234.861		1.67E-03	**********	**********	0.00164	0.00164	0.001669
B	249.678		4.81E-02	**********	0.003026	0.002501	0.003026	0.003035
Mn	257.610		1.08E-03	**********	0.00106	0.001051	0.00106	0.00108
Fe	259.940		9.92E+01	**********	**********	99.18754	99.18754	99.18756
Fe	271.441		9.81E+01	**********	98.06714	**********	98.06714	98.06715
Mg	279.553		5.33E+01	53.28635	**********	**********	53.28635	53.28635
V	292.402		-1.16E-02	**********	-0.0116	-0.01161	-0.0116	-0.01158
Al	308.215		1.05E+02	**********	104.8792	**********	104.8792	104.8792
Ca	315.887		1.06E+02	105.6308	**********	**********	105.6308	105.6308
Cu	324.754		-1.78E-02	**********	-0.01783	-0.01784	-0.01783	-0.01781
Ag	328.068		-2.67E-03	**********	-0.00271	-0.00272	-0.00271	-0.00269
Ti	334.941		-3.00E-03	**********	-0.00302	-0.00303	-0.00302	-0.003
Y	371.03		2.46E-03	**********	0.002445	0.002436	0.002445	0.002465
Mg	383.826		5.61E+01	56.09694	**********	**********	56.09694	56.09694
Ca	393.366		8.23E+01	82.32606	**********	**********	82.32606	82.32606
Al	396.152		9.79E+01	**********	**********	97.89699	97.89699	97.89701
Sr	421.552		1.19E-03	0.001188	**********	**********	0.001188	0.001188
Zn	481.053		9.79E+01	97.88394	**********	**********	97.88394	97.88394
Ba	493.409		1.08E-03	0.001082	**********	**********	0.001082	0.001082
Na	588.995		9.90E+01	98.95971	**********	**********	98.95971	98.95971
Li	670.784		1.26E-03	0.001259	**********	**********	0.001259	0.001259
K	766.49		9.93E+01	99.3167	**********	**********	99.3167	99.3167
K	769.896		9.98E+01	99.78584	**********	**********	99.78584	99.78584

7-8-99

RUN 1111a

Analyte	WASH nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		4.80E-02	**********	**********	0.047997	0.047997	0.047997
Tl	190.864		2.08E-02	0.020811	**********	**********	0.020811	0.020789
Tl	190.883		5.61E-02	**********	0.056011	**********	0.056011	0.056011
As	193.759		-2.51E-04	**********	-0.0002	-0.00014	-0.0002	-0.00018
Se	196.09		1.26E-02	**********	0.012585	**********	0.012585	0.012569
Mo	202.030		2.96E-03	**********	0.00296	0.00296	0.00296	0.00296
Se	203.985		-1.84E-02	**********	**********	-0.01713	-0.01713	-0.01713
Cr	205.552		-2.16E-03	**********	-0.00216	-0.00216	-0.00216	-0.00216
Sb	206.833		-3.21E-03	**********	**********	-0.00318	-0.00318	-0.0032
Zn	213.856		-3.76E-03	**********	**********	-0.00378	-0.00378	-0.00378
Sb	217.581		-2.95E-03	**********	-0.00296	**********	-0.00296	-0.00296
Pb	220.353		1.32E-02	**********	0.013163	0.013166	0.013163	0.013163
Co	228.616		-9.21E-13	**********	7.5E-06	7.5E-06	7.5E-06	7.5E-06
Cd	228.802		-6.25E-04	**********	-0.00062	-0.00062	-0.00062	-0.00062
Ni	231.604		3.02E-03	**********	0.003017	0.003017	0.003017	0.003017
Be	234.861		3.84E-12	**********	**********	-2.5E-09	-2.5E-09	3.8E-12
B	249.678		5.12E-03	**********	0.005118	0.005119	0.005118	0.005118
Mn	257.610		-2.16E-03	**********	-0.00216	-0.00216	-0.00216	-0.00216
Fe	259.940		-2.33E-03	**********	**********	-0.00233	-0.00233	-0.00233
Fe	271.441		-1.24E-10	**********	-5.1E-05	**********	-5.1E-05	-5.0E-05
Mg	279.553		-4.32E-03	-0.00432	**********	**********	-0.00432	-0.00432
V	292.402		6.00E-03	**********	0.006	0.006	0.006	0.006
Al	308.215		-6.82E-02	**********	-0.0683	**********	-0.0683	-0.0683
Ca	315.887		-3.04E-02	-0.03035	**********	**********	-0.03035	-0.03035
Cu	324.754		1.81E-03	**********	0.001806	0.001806	0.001806	0.001806
Ag	328.068		4.40E-04	**********	0.00045	0.00045	0.00045	0.00045
Ti	334.941		-2.73E-04	**********	-0.00027	-0.00027	-0.00027	-0.00027
Y	371.03		2.46E-04	**********	0.000246	0.000246	0.000246	0.000246
Mg	383.826		2.04E-02	0.020391	**********	**********	0.020391	0.020391
Ca	393.366		-2.95E-02	-0.02953	**********	**********	-0.02953	-0.02953
Al	396.152		-2.34E-02	**********	**********	-0.02349	-0.02349	-0.02349
Sr	421.552		-7.92E-04	-0.00079	**********	**********	-0.00079	-0.00079
Zn	481.053		-3.38E-02	-0.03381	**********	**********	-0.03381	-0.03381
Ba	493.409		3.61E-04	0.000361	**********	**********	0.000361	0.000361
Na	588.995		-5.02E-02	-0.05023	**********	**********	-0.05023	-0.05023
Li	670.784		-1.20E-03	-0.0012	**********	**********	-0.0012	-0.0012
K	766.49		2.10E-02	0.021025	**********	**********	0.021025	0.021025
K	769.896		-1.07E-02	-0.01071	**********	**********	-0.01071	-0.01071

7-8-99

RUN 1111a

DIGEST BLK2 RUN 1111

Analyte	nm	0.00E+00 raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989	6.56E-02	**********	**********	0.065628	0.065628	0.065628
Tl	190.864	1.50E-02	0.014958	**********	**********	0.014958	0.014796
Tl	190.883	7.26E-02	**********	0.072618	**********	0.072618	0.072618
As	193.759	3.96E-03	**********	0.003971	0.004026	0.003971	0.003987
Se	196.09	4.83E-03	**********	0.004836	**********	0.004836	0.004813
Mo	202.030	-1.48E-03	**********	-0.00148	-0.00148	-0.00148	-0.00148
Se	203.985	-2.17E-02	**********	**********	-0.02432	-0.02432	-0.02432
Cr	205.552	5.76E-03	**********	0.005764	0.005764	0.005764	0.005764
Sb	206.833	4.92E-03	**********	**********	0.004859	0.004859	0.00484
Zn	213.856	1.57E-02	**********	**********	0.015645	0.015645	0.015645
Sb	217.581	-1.20E-02	**********	-0.01199	**********	-0.01199	-0.01199
Pb	220.353	7.56E-03	**********	0.007553	0.007558	0.007553	0.007553
Co	228.616	-1.62E-03	**********	-0.00162	-0.00162	-0.00162	-0.00162
Cd	228.802	-6.18E-13	**********	-6.5E-06	-6.6E-06	-6.5E-06	-6.5E-06
Ni	231.604	8.04E-03	**********	0.008045	0.008045	0.008045	0.008045
Be	234.861	3.84E-12	**********	**********	-2.3E-08	-2.3E-08	3.8E-12
B	249.678	4.16E-02	**********	0.04154	0.041559	0.04154	0.04154
Mn	257.610	-7.20E-04	**********	-0.00072	-0.00072	-0.00072	-0.00072
Fe	259.940	7.44E-02	**********	**********	0.07442	0.07442	0.07442
Fe	271.441	1.16E-01	**********	0.11641	**********	0.11641	0.116409
Mg	279.553	6.20E-02	0.061989	**********	**********	0.061989	0.061989
V	292.402	3.22E-03	**********	0.003226	0.003226	0.003226	0.003227
Al	308.215	-3.90E-02	**********	-0.03903	**********	-0.03903	-0.03903
Ca	315.887	1.67E-01	0.166689	**********	**********	0.166689	0.166689
Cu	324.754	1.81E-03	**********	0.001806	0.001806	0.001806	0.001806
Ag	328.068	-1.53E-03	**********	-0.00152	-0.00152	-0.00152	-0.00152
Ti	334.941	-5.46E-04	**********	-0.00055	-0.00055	-0.00055	-0.00055
Y	371.03	4.93E-04	**********	0.000493	0.000493	0.000493	0.000493
Mg	383.826	3.67E-02	0.036704	**********	**********	0.036704	0.036704
Ca	393.366	1.66E-01	0.166213	**********	**********	0.166213	0.166213
Al	396.152	2.23E-02	**********	**********	0.022349	0.022349	0.022349
Sr	421.552	7.92E-04	0.000792	**********	**********	0.000792	0.000792
Zn	481.053	-4.80E-02	-0.04804	**********	**********	-0.04804	-0.04804
Ba	493.409	1.44E-03	0.001443	**********	**********	0.001443	0.001443
Na	588.995	4.19E-01	0.419024	**********	**********	0.419024	0.419024
Li	670.784	-3.15E-04	-0.00031	**********	**********	-0.00031	-0.00031
K	766.49	2.04E-01	0.203557	**********	**********	0.203557	0.203557
K	769.896	2.42E-01	0.241824	**********	**********	0.241824	0.241824

RUN 1111a

7-8-99

Analyte	nm	99IE19S06 990086 5.14E-01	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sn	189.989		2.56E+01	**********	**********	25.54692	25.54692	25.55124
Tl	190.864		9.22E+01	92.16564	**********	**********	92.16564	55.60155
Tl	190.883		2.25E+01	**********	23.15504	**********	23.15504	23.15926
As	193.759		-9.33E+00	**********	1.121546	0.715792	1.121546	0.699162
Se	196.09		-1.50E+00	**********	-1.57676	**********	-1.57676	-1.70062
Mo	202.030		1.73E+00	**********	1.724046	1.724123	1.724046	1.728445
Se	203.985		8.08E+00	**********	**********	-11.3694	-11.3694	-11.4099
Cr	205.552		5.26E+01	**********	52.58448	52.58456	52.58448	52.58887
Sb	206.833		-5.41E-01	**********	**********	-0.82482	-0.82482	-0.54961
Zn	213.856		8.25E+02	**********	**********	824.4189	824.4189	824.4234
Sb	217.581		-3.46E+00	**********	-0.14368	**********	-0.14368	-0.14345
Pb	220.353		7.74E+01	**********	78.68845	78.63313	78.68845	78.69095
Co	228.616		9.52E+00	**********	9.238397	9.238473	9.238397	9.242779
Cd	228.802		4.87E+00	**********	4.858416	4.859186	4.858416	4.880631
Ni	231.604		7.24E+01	**********	72.42113	72.42121	72.42113	72.42543
Be	234.861		1.30E+00	**********	**********	1.295618	1.295618	1.299941
B	249.678		3.63E+01	**********	24.42762	24.81931	24.42762	24.42929
Mn	257.610		8.25E+02	**********	825.3794	825.3795	825.3794	825.3837
Fe	259.940		2.50E+04	**********	**********	24964.1	24964.1	24964.1
Fe	271.441		2.58E+04	**********	25818.32	**********	25818.32	25818.3
Mg	279.553		5.70E+03	5700.041	**********	**********	5700.041	5700.041
V	292.402		5.31E+01	**********	53.11492	53.11499	53.11492	53.1193
Al	308.215		1.67E+04	**********	16718.69	**********	16718.69	16718.69
Ca	315.887		1.47E+04	14709.56	**********	**********	14709.56	14709.56
Cu	324.754		1.01E+02	**********	101.1765	101.1766	101.1765	101.1809
Ag	328.068		-2.92E-01	**********	-0.38623	-0.38615	-0.38623	-0.38202
Ti	334.941		1.95E+02	**********	194.5502	194.5503	194.5502	194.5546
Y	371.03		1.36E+01	**********	13.57473	13.57481	13.57473	13.57913
Mg	383.826		5.75E+03	5748.369	**********	**********	5748.369	5748.369
Ca	393.366		1.32E+04	13219.68	**********	**********	13219.68	13219.68
Al	396.152		1.60E+04	**********	**********	15991.17	15991.17	15991.17
Sr	421.552		4.34E+01	43.40735	**********	**********	43.40735	43.40735
Zn	481.053		7.01E+02	701.0596	**********	**********	701.0596	701.0596
Ba	493.409		2.04E+02	204.1155	**********	**********	204.1155	204.1155
Na	588.995		2.75E+02	274.8155	**********	**********	274.8155	274.8155
Li	670.784		1.51E+01	15.1055	**********	**********	15.1055	15.1055
K	766.49		2.78E+03	2782.726	**********	**********	2782.726	2782.726
K	769.896		2.84E+03	2840.13	**********	**********	2840.13	2840.13

RUN 1111a

(XX) 7-8-99

Analyte	99IE19S07 nm	990086 5.18E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		3.31E+01	**********	**********	33.0931	33.0931	33.09855
Tl	190.864		1.00E+02	100.041	**********	**********	100.041	61.94865
Tl	190.883		1.78E+01	**********	18.64636	**********	18.64636	18.65103
As	193.759		-7.90E+00	**********	2.215426	1.642666	2.215426	1.61077
Se	196.09		4.29E+00	**********	4.295989	**********	4.295989	4.199446
Mo	202.030		4.14E+00	**********	4.138304	4.137753	4.138304	4.143201
Se	203.985		-6.23E-01	**********	**********	-18.0572	-18.0572	-17.6785
Cr	205.552		4.62E+01	**********	46.17492	46.17436	46.17492	46.17981
Sb	206.833		2.00E+00	**********	**********	4.814547	4.814547	7.715089
Zn	213.856		7.81E+03	**********	**********	7798.93	7798.93	7798.934
Sb	217.581		1.14E+00	**********	4.631647	**********	4.631647	4.632228
Pb	220.353		3.13E+02	**********	314.4238	314.344	314.4238	314.4267
Co	228.616		1.44E+01	**********	14.05679	14.05624	14.05679	14.06166
Cd	228.802		1.63E+01	**********	16.27959	16.28002	16.27959	16.30171
Ni	231.604		1.92E+03	**********	1918.148	1918.147	1918.148	1918.152
Be	234.861		1.42E+00	**********	**********	1.41289	1.41289	1.418339
B	249.678		5.42E+01	**********	41.50377	42.07119	41.50377	41.50491
Mn	257.610		3.61E+02	**********	361.2007	361.2001	361.2007	361.2055
Fe	259.940		2.63E+04	**********	**********	26307.29	26307.29	26307.29
Fe	271.441		2.75E+04	**********	27545.69	**********	27545.69	27545.66
Mg	279.553		4.28E+03	4284.249	**********	**********	4284.249	4284.249
V	292.402		3.99E+01	**********	39.91159	39.91104	39.91159	39.91646
Al	308.215		1.68E+04	**********	16795.54	**********	16795.54	16795.55
Ca	315.887		9.30E+03	9298.632	**********	**********	9298.632	9298.632
Cu	324.754		1.57E+03	**********	1567.051	1567.05	1567.051	1567.055
Ag	328.068		6.85E-01	**********	0.653392	0.652841	0.653392	0.658176
Ti	334.941		2.67E+02	**********	267.0439	267.0433	267.0439	267.0488
Y	371.03		1.44E+01	**********	14.41598	14.41543	14.41598	14.42088
Mg	383.826		4.16E+03	4157.162	**********	**********	4157.162	4157.162
Ca	393.366		8.94E+03	8943.85	**********	**********	8943.85	8943.85
Al	396.152		1.58E+04	**********	**********	15755.22	15755.22	15755.23
Sr	421.552		3.99E+01	39.88162	**********	**********	39.88162	39.88162
Zn	481.053		7.47E+03	7467.028	**********	**********	7467.028	7467.028
Ba	493.409		4.03E+02	402.901	**********	**********	402.901	402.901
Na	588.995		3.64E+02	363.7044	**********	**********	363.7044	363.7044
Li	670.784		1.34E+01	13.37898	**********	**********	13.37898	13.37898
K	766.49		2.58E+03	2581.167	**********	**********	2581.167	2581.167
K	769.896		2.50E+03	2504.718	**********	**********	2504.718	2504.718

7-8-99

RUN 1111a

Analyte	99IE19S08 nm	990086 5.02E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		4.28E+01	**********	**********	42.76961	42.76961	42.775
Tl	190.864		9.85E+01	98.47109	**********	**********	98.47109	60.90934
Tl	190.883		2.69E+01	**********	27.65517	**********	27.65517	27.65966
As	193.759		2.04E+01	**********	27.8587	27.62411	27.8587	27.60928
Se	196.09		-3.85E-01	**********	-0.33984	**********	-0.33984	-0.42687
Mo	202.030		2.51E+00	**********	2.503501	2.502808	2.503501	2.508199
Se	203.985		6.53E+00	**********	**********	-10.1695	-10.1695	-9.77697
Cr	205.552		3.88E+01	**********	38.7798	38.77911	38.7798	38.7845
Sb	206.833		1.76E+01	**********	**********	20.55558	20.55558	23.47087
Zn	213.856		7.98E+03	**********	**********	7959.391	7959.391	7959.395
Sb	217.581		1.51E+01	**********	18.53881	**********	18.53881	18.53939
Pb	220.353		4.33E+02	**********	434.2454	434.2125	434.2454	434.2485
Co	228.616		8.06E+00	**********	7.7144	7.713707	7.7144	7.719078
Cd	228.802		3.15E+01	**********	31.47475	31.47446	31.47475	31.49217
Ni	231.604		1.65E+03	**********	1651.031	1651.03	1651.031	1651.035
Be	234.861		1.20E+00	**********	**********	1.193018	1.193018	1.198408
B	249.678		3.35E+01	**********	20.86675	21.14826	20.86675	20.86781
Mn	257.610		1.39E+02	**********	138.8364	138.8357	138.8364	138.8411
Fe	259.940		2.68E+04	**********	**********	26802.63	26802.63	26802.63
Fe	271.441		2.74E+04	**********	27418.49	**********	27418.49	27418.46
Mg	279.553		5.28E+03	5276.691	**********	**********	5276.691	5276.691
V	292.402		3.78E+01	**********	37.82868	37.82799	37.82868	37.83336
Al	308.215		1.23E+04	**********	12263.93	**********	12263.93	12263.93
Ca	315.887		9.43E+03	9434.37	**********	**********	9434.37	9434.37
Cu	324.754		4.60E+03	**********	4600.17	4600.169	4600.17	4600.174
Ag	328.068		8.22E+00	**********	8.225648	8.224956	8.225648	8.230269
Ti	334.941		2.38E+02	**********	238.1828	238.1821	238.1828	238.1875
Y	371.03		1.16E+01	**********	11.64387	11.64317	11.64387	11.64856
Mg	383.826		5.23E+03	5230.734	**********	**********	5230.734	5230.734
Ca	393.366		9.23E+03	9231.081	**********	**********	9231.081	9231.081
Al	396.152		1.18E+04	**********	**********	11840.23	11840.23	11840.24
Sr	421.552		3.71E+01	37.07909	**********	**********	37.07909	37.07909
Zn	481.053		7.50E+03	7498.689	**********	**********	7498.689	7498.689
Ba	493.409		3.95E+02	394.8988	**********	**********	394.8988	394.8988
Na	588.995		2.71E+02	271.2214	**********	**********	271.2214	271.2214
Li	670.784		1.04E+01	10.41571	**********	**********	10.41571	10.41571
K	766.49		2.24E+03	2235.097	**********	**********	2235.097	2235.097
K	769.896		2.27E+03	2272.396	**********	**********	2272.396	2272.396

RUN 1111a

7871

Analyte	99IE19S09 nm	990086 5.21E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		3.18E+01	**********	**********	31.7551	31.7551	31.76136
Tl	190.864		1.43E+02	142.7892	**********	**********	142.7892	90.7504
Tl	190.883		6.76E+00	**********	7.569076	**********	7.569076	7.574767
As	193.759		6.65E+00	**********	16.53529	15.83823	16.53529	15.80849
Se	196.09		-2.32E+00	**********	-2.31772	**********	-2.31772	-2.40235
Mo	202.030		-5.68E-01	**********	-0.57377	-0.57412	-0.57377	-0.56786
Se	203.985		-1.15E+00	**********	**********	-21.8936	-21.8936	-21.6037
Cr	205.552		5.69E+01	**********	56.94154	56.94118	56.94154	56.94744
Sb	206.833		-1.13E+00	**********	**********	1.030495	1.030495	3.566189
Zn	213.856		6.83E+03	**********	**********	6819.864	6819.864	6819.87
Sb	217.581		-3.51E-01	**********	4.420711	**********	4.420711	4.421312
Pb	220.353		5.56E+02	**********	557.5618	557.4647	557.5618	557.5657
Co	228.616		1.27E+01	**********	12.37963	12.37928	12.37963	12.38552
Cd	228.802		7.84E+01	**********	78.38354	78.38438	78.38354	78.40628
Ni	231.604		1.01E+03	**********	1006.632	1006.632	1006.632	1006.638
Be	234.861		1.41E+00	**********	**********	1.403094	1.403094	1.409358
B	249.678		4.05E+01	**********	23.1603	24.09531	23.1603	23.16143
Mn	257.610		2.91E+02	**********	291.3565	291.3561	291.3565	291.3624
Fe	259.940		3.58E+04	**********	**********	35759.51	35759.51	35759.51
Fe	271.441		3.78E+04	**********	37797.91	**********	37797.91	37797.88
Mg	279.553		4.61E+03	4606.888	**********	**********	4606.888	4606.888
V	292.402		3.69E+01	**********	36.9256	36.92525	36.9256	36.93149
Al	308.215		1.65E+04	**********	16535.27	**********	16535.27	16535.27
Ca	315.887		1.24E+04	12424.31	**********	**********	12424.31	12424.31
Cu	324.754		2.46E+03	**********	2459.764	2459.764	2459.764	2459.77
Ag	328.068		4.11E+00	**********	4.085837	4.085486	4.085837	4.091607
Ti	334.941		2.29E+02	**********	229.0741	229.0737	229.0741	229.0799
Y	371.03		1.30E+01	**********	12.99948	12.99912	12.99948	13.00539
Mg	383.826		4.43E+03	4432.287	**********	**********	4432.287	4432.287
Ca	393.366		1.16E+04	11573.61	**********	**********	11573.61	11573.61
Al	396.152		1.53E+04	**********	**********	15264.87	15264.87	15264.88
Sr	421.552		5.66E+01	56.57502	**********	**********	56.57502	56.57502
Zn	481.053		6.52E+03	6524.628	**********	**********	6524.628	6524.628
Ba	493.409		5.70E+02	570.4607	**********	**********	570.4607	570.4607
Na	588.995		2.08E+02	207.7108	**********	**********	207.7108	207.7108
Li	670.784		1.31E+01	13.11315	**********	**********	13.11315	13.11315
K	766.49		2.68E+03	2684.374	**********	**********	2684.374	2684.374
K	769.896		2.64E+03	2637.811	**********	**********	2637.811	2637.811

JN
7-8-99

RUN 1111a

Analyte	99IE19S10 nm	990086 5.07E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		1.74E+01	**********	**********	17.39334	17.39334	17.39836
Tl	190.864		8.96E+01	89.63117	**********	**********	89.63117	54.2073
Tl	190.883		8.32E+00	**********	8.99548	**********	8.99548	9.000034
As	193.759		-4.57E+00	**********	6.712482	5.813397	6.712482	5.80586
Se	196.09		-3.62E+00	**********	-3.58718	**********	-3.58718	-3.69032
Mo	202.030		1.02E+00	**********	1.017449	1.017167	1.017449	1.022189
Se	203.985		1.78E+01	**********	**********	-6.90848	-6.90848	-6.69701
Cr	205.552		6.74E+01	**********	67.3865	67.38622	67.3865	67.39124
Sb	206.833		1.86E+00	**********	**********	3.427824	3.427824	5.635773
Zn	213.856		5.77E+03	**********	**********	5767.288	5767.288	5767.292
Sb	217.581		-1.16E+00	**********	1.731749	**********	1.731749	1.732418
Pb	220.353		1.11E+03	**********	1115.055	1114.934	1115.055	1115.058
Co	228.616		1.18E+01	**********	11.51688	11.5166	11.51688	11.52161
Cd	228.802		7.10E+01	**********	71.02529	71.02655	71.02529	71.04926
Ni	231.604		6.19E+02	**********	618.7802	618.7799	618.7802	618.7848
Be	234.861		1.45E+00	**********	**********	1.444668	1.444668	1.449689
B	249.678		3.94E+01	**********	27.58484	28.2116	27.58484	27.58593
Mn	257.610		2.37E+02	**********	237.1694	237.1691	237.1694	237.1741
Fe	259.940		2.43E+04	**********	**********	24274.41	24274.41	24274.41
Fe	271.441		2.56E+04	**********	25641.44	**********	25641.44	25641.42
Mg	279.553		6.21E+03	6212.207	**********	**********	6212.207	6212.207
V	292.402		4.49E+01	**********	44.944	44.94371	44.944	44.94871
Al	308.215		1.88E+04	**********	18848.82	**********	18848.82	18848.83
Ca	315.887		1.62E+04	16222.15	**********	**********	16222.15	16222.15
Cu	324.754		4.83E+02	**********	483.1877	483.1874	483.1877	483.1923
Ag	328.068		1.13E+00	**********	1.127222	1.12694	1.127222	1.131789
Ti	334.941		1.98E+02	**********	198.4223	198.422	198.4223	198.427
Y	371.03		1.46E+01	**********	14.58896	14.58868	14.58896	14.5937
Mg	383.826		6.31E+03	6309.289	**********	**********	6309.289	6309.289
Ca	393.366		1.42E+04	14196.32	**********	**********	14196.32	14196.32
Al	396.152		1.73E+04	**********	**********	17259.58	17259.58	17259.58
Sr	421.552		5.17E+01	51.74537	**********	**********	51.74537	51.74537
Zn	481.053		5.69E+03	5687.011	**********	**********	5687.011	5687.011
Ba	493.409		3.71E+02	371.0601	**********	**********	371.0601	371.0601
Na	588.995		2.88E+02	288.0035	**********	**********	288.0035	288.0035
Li	670.784		1.57E+01	15.69921	**********	**********	15.69921	15.69921
K	766.49		3.24E+03	3240.44	**********	**********	3240.44	3240.44
K	769.896		3.23E+03	3232.286	**********	**********	3232.286	3232.286

RUN 1111a

7-8-99

Analyte	99IE19S11 nm	990086 5.24E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		2.32E+01	**********	**********	23.18834	23.18834	23.19295
Tl	190.864		1.05E+02	104.6041	**********	**********	104.6041	66.55089
Tl	190.883		1.15E+01	**********	12.90955	**********	12.90955	12.91422
As	193.759		-7.81E+00	**********	4.646947	3.445811	4.646947	3.438644
Se	196.09		-3.78E+00	**********	-3.74356	**********	-3.74356	-3.83563
Mo	202.030		-1.41E-01	**********	-0.14625	-0.1459	-0.14625	-0.14129
Se	203.985		4.31E+00	**********	**********	-7.08327	-7.08327	-7.13806
Cr	205.552		3.26E+01	**********	32.59717	32.59752	32.59717	32.60213
Sb	206.833		-2.65E+00	**********	**********	-3.04245	-3.04245	-3.02823
Zn	213.856		1.25E+02	**********	**********	124.608	124.608	124.6131
Sb	217.581		-7.74E+00	**********	-4.08241	**********	-4.08241	-4.0813
Pb	220.353		4.00E+01	**********	41.6198	41.45733	41.6198	41.6221
Co	228.616		9.42E+00	**********	8.843718	8.844075	8.843718	8.84865
Cd	228.802		1.07E+00	**********	1.059559	1.06197	1.059559	1.085723
Ni	231.604		2.58E+01	**********	25.81821	25.81856	25.81821	25.82299
Be	234.861		1.15E+00	**********	**********	1.142997	1.142997	1.147607
B	249.678		2.97E+01	**********	16.86472	17.58172	16.86472	16.86603
Mn	257.610		1.81E+02	**********	181.4166	181.417	181.4166	181.4216
Fe	259.940		2.63E+04	**********	**********	26326.37	26326.37	26326.37
Fe	271.441		2.79E+04	**********	27888.19	**********	27888.19	27888.14
Mg	279.553		4.25E+03	4247.048	**********	**********	4247.048	4247.048
V	292.402		4.18E+01	**********	41.84593	41.84628	41.84593	41.85085
Al	308.215		2.10E+04	**********	20982.43	**********	20982.43	20982.44
Ca	315.887		5.01E+03	5013.96	**********	**********	5013.96	5013.96
Cu	324.754		3.63E+01	**********	36.4716	36.47196	36.4716	36.47652
Ag	328.068		1.48E-02	**********	0.01813	0.018487	0.01813	0.023063
Ti	334.941		3.89E+02	**********	388.6556	388.6559	388.6556	388.6605
Y	371.03		1.41E+01	**********	14.115	14.11536	14.115	14.11997
Mg	383.826		4.08E+03	4081.53	**********	**********	4081.53	4081.53
Ca	393.366		4.95E+03	4945.159	**********	**********	4945.159	4945.159
Al	396.152		1.88E+04	**********	**********	18844.38	18844.38	18844.38
Sr	421.552		3.38E+01	33.76784	**********	**********	33.76784	33.76784
Zn	481.053		2.68E+01	26.84099	**********	**********	26.84099	26.84099
Ba	493.409		2.46E+02	246.1148	**********	**********	246.1148	246.1148
Na	588.995		1.51E+02	150.6855	**********	**********	150.6855	150.6855
Li	670.784		1.77E+01	17.67713	**********	**********	17.67713	17.67713
K	766.49		2.14E+03	2137.248	**********	**********	2137.248	2137.248
K	769.896		2.15E+03	2150.849	**********	**********	2150.849	2150.849

RUN 1111a

7-8-99

Analyte	99IE19S11 D nm	990086 5.33E-01	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sn	189.989		2.54E+01	**********	**********	25.35189	25.35189	25.35638
Tl	190.864		9.41E+01	94.13872	**********	**********	94.13872	57.23367
Tl	190.883		1.30E+01	**********	14.27181	**********	14.27181	14.27624
As	193.759		-7.05E+00	**********	4.356565	3.790587	4.356565	3.769361
Se	196.09		2.72E-01	**********	0.306552	**********	0.306552	0.219506
Mo	202.030		5.55E-01	**********	0.550477	0.550693	0.550477	0.555182
Se	203.985		-2.33E+00	**********	**********	-13.6715	-13.6715	-13.7244
Cr	205.552		3.12E+01	**********	31.21141	31.21162	31.21141	31.21611
Sb	206.833		6.41E-01	**********	**********	0.266371	0.266371	0.295426
Zn	213.856		1.18E+02	**********	**********	117.461	117.461	117.466
Sb	217.581		-3.16E+00	**********	0.389378	**********	0.389378	0.390364
Pb	220.353		3.84E+01	**********	39.86789	39.79003	39.86789	39.87012
Co	228.616		8.27E+00	**********	7.714846	7.715062	7.714846	7.719517
Cd	228.802		4.69E-01	**********	0.45542	0.456604	0.45542	0.479537
Ni	231.604		2.64E+01	**********	26.4009	26.40112	26.4009	26.40543
Be	234.861		1.06E+00	**********	**********	1.060251	1.060251	1.06474
B	249.678		3.48E+01	**********	22.32422	22.89864	22.32422	22.32544
Mn	257.610		1.79E+02	**********	179.0283	179.0285	179.0283	179.033
Fe	259.940		2.58E+04	**********	**********	25799.61	25799.61	25799.61
Fe	271.441		2.71E+04	**********	27051.18	**********	27051.18	27051.13
Mg	279.553		4.20E+03	4199.119	**********	**********	4199.119	4199.119
V	292.402		3.89E+01	**********	38.89563	38.89584	38.89563	38.9003
Al	308.215		1.92E+04	**********	19207.47	**********	19207.47	19207.47
Ca	315.887		4.92E+03	4921.593	**********	**********	4921.593	4921.593
Cu	324.754		3.71E+01	**********	37.32507	37.32528	37.32507	37.32973
Ag	328.068		-1.46E-01	**********	-0.14612	-0.1459	-0.14612	-0.14144
Ti	334.941		3.74E+02	**********	374.1256	374.1258	374.1256	374.1303
Y	371.03		1.41E+01	**********	14.09747	14.09769	14.09747	14.10218
Mg	383.826		3.89E+03	3892.516	**********	**********	3892.516	3892.516
Ca	393.366		4.99E+03	4989.162	**********	**********	4989.162	4989.162
Al	396.152		1.82E+04	**********	**********	18182.29	18182.29	18182.29
Sr	421.552		3.30E+01	33.02383	**********	**********	33.02383	33.02383
Zn	481.053		6.54E+01	65.41863	**********	**********	65.41863	65.41863
Ba	493.409		2.42E+02	241.5722	**********	**********	241.5722	241.5722
Na	588.995		1.45E+02	145.301	**********	**********	145.301	145.301
Li	670.784		1.62E+01	16.20852	**********	**********	16.20852	16.20852
K	766.49		2.03E+03	2031.979	**********	**********	2031.979	2031.979
K	769.896		2.07E+03	2073.588	**********	**********	2073.588	2073.588

7-8-99

RUN 1111a

Analyte	nm	99IE19S11 S 990086 5.06E-01 raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989	2.82E+01	**********	**********	28.24155	28.24155	28.24631
Tl	190.864	1.40E+02	139.8837	**********	**********	139.8837	100.3986
Tl	190.883	5.09E+01	**********	52.26542	**********	52.26542	52.27003
As	193.759	2.58E+01	**********	38.86074	38.35216	38.86074	38.33726
Se	196.09	3.78E+01	**********	37.85863	**********	37.85863	37.56399
Mo	202.030	5.85E-01	**********	0.579662	0.57981	0.579662	0.584569
Se	203.985	8.04E+01	**********	**********	30.71671	30.71671	30.52839
Cr	205.552	1.32E+02	**********	131.6121	131.6123	131.6121	131.617
Sb	206.833	1.54E+01	**********	**********	13.98881	13.98881	14.09126
Zn	213.856	3.25E+02	**********	**********	323.987	323.987	323.992
Sb	217.581	1.04E+01	**********	13.69837	**********	13.69837	13.68476
Pb	220.353	2.44E+02	**********	245.779	245.7214	245.779	245.7815
Co	228.616	1.12E+02	**********	111.8631	111.8633	111.8631	111.868
Cd	228.802	2.22E+01	**********	22.1277	22.12871	22.1277	22.15486
Ni	231.604	1.33E+02	**********	132.8321	132.8323	132.8321	132.8368
Be	234.861	1.21E+01	**********	**********	12.06355	12.06355	12.06831
B	249.678	2.20E+02	**********	207.8575	208.324	207.8575	207.8489
Mn	257.610	6.01E+02	**********	600.6525	600.6526	600.6525	600.6573
Fe	259.940	2.64E+04	**********	**********	26430.37	26430.37	26430.37
Fe	271.441	2.75E+04	**********	27459.49	**********	27459.49	27459.44
Mg	279.553	4.15E+03	4146.916	**********	**********	4146.916	4146.916
V	292.402	1.44E+02	**********	144.3787	144.3789	144.3787	144.3836
Al	308.215	1.92E+04	**********	19218.04	**********	19218.04	19218.05
Ca	315.887	5.10E+03	5100.207	**********	**********	5100.207	5100.207
Cu	324.754	1.29E+02	**********	128.8455	128.8456	128.8455	128.8503
Ag	328.068	1.93E+01	**********	19.22087	19.22102	19.22087	19.22542
Ti	334.941	3.96E+02	**********	396.1926	396.1928	396.1926	396.1975
Y	371.03	1.13E+02	**********	112.6988	112.6989	112.6988	112.7037
Mg	383.826	3.95E+03	3949.945	**********	**********	3949.945	3949.945
Ca	393.366	4.91E+03	4906.244	**********	**********	4906.244	4906.244
Al	396.152	1.85E+04	**********	**********	18460.69	18460.69	18460.7
Sr	421.552	2.26E+02	225.6457	**********	**********	225.6457	225.6457
Zn	481.053	2.54E+02	253.7367	**********	**********	253.7367	253.7367
Ba	493.409	3.30E+02	330.1116	**********	**********	330.1116	330.1116
Na	588.995	1.45E+02	144.8988	**********	**********	144.8988	144.8988
Li	670.784	1.14E+02	114.4312	**********	**********	114.4312	114.4312
K	766.49	2.14E+03	2138.594	**********	**********	2138.594	2138.594
K	769.896	2.15E+03	2145.456	**********	**********	2145.456	2145.456

7-8-99

RUN 1111a

Analyte	99IE19S12 nm	990086 5.06E-01	raw result from JY SED5 mg/kg	not algebraically IEC corrected mg/kg	IEC corrected values algebraic "B" correct mg/kg	IEC corrected values algebraic "C" correct mg/kg	IEC corrected values algebraic "combo" correct mg/kg	IEC corrected values arithmetic correct mg/kg
Sn	189.989		1.93E+01	**********	**********	19.34086	19.34086	19.34297
Tl	190.864		4.71E+01	47.1324	**********	**********	47.1324	29.24269
Tl	190.883		1.14E+01	**********	12.38894	**********	12.38894	12.39093
As	193.759		-3.55E+00	**********	1.263724	1.047416	1.263724	1.032893
Se	196.09		1.14E+00	**********	1.157618	**********	1.157618	1.11365
Mo	202.030		5.84E-01	**********	0.582284	0.582349	0.582284	0.584454
Se	203.985		-4.19E+00	**********	**********	-8.97835	-8.97835	-9.00439
Cr	205.552		1.34E+01	**********	13.37007	13.37013	13.37007	13.37223
Sb	206.833		-3.38E-01	**********	**********	-0.52002	-0.52002	-0.50811
Zn	213.856		6.18E+01	**********	**********	61.72294	61.72294	61.72538
Sb	217.581		-2.35E+00	**********	-0.61674	**********	-0.61674	-0.61656
Pb	220.353		1.77E+01	**********	18.34371	18.31361	18.34371	18.34466
Co	228.616		6.95E+00	**********	6.536316	6.536381	6.536316	6.538459
Cd	228.802		8.64E-01	**********	0.858413	0.858847	0.858413	0.868739
Ni	231.604		1.57E+01	**********	15.68314	15.6832	15.68314	15.68518
Be	234.861		5.93E-01	**********	**********	0.591301	0.591301	0.593406
B	249.678		2.34E+01	**********	17.37232	17.51474	17.37232	17.37265
Mn	257.610		1.05E+02	**********	104.7205	104.7206	104.7205	104.7227
Fe	259.940		1.29E+04	**********	**********	12877.32	12877.32	12877.33
Fe	271.441		1.32E+04	**********	13187.98	**********	13187.98	13187.94
Mg	279.553		1.95E+03	1951.581	**********	**********	1951.581	1951.581
V	292.402		1.94E+01	**********	19.37769	19.37775	19.37769	19.37983
Al	308.215		7.99E+03	**********	8000.205	**********	8000.205	8000.206
Ca	315.887		2.07E+03	2068.045	**********	**********	2068.045	2068.045
Cu	324.754		8.87E+00	**********	9.014375	9.014439	9.014375	9.016515
Ag	328.068		2.40E-01	**********	0.23504	0.235104	0.23504	0.237216
Ti	334.941		2.79E+02	**********	279.0378	279.0379	279.0378	279.0399
Y	371.03		8.57E+00	**********	8.564539	8.564604	8.564539	8.566708
Mg	383.826		1.82E+03	1818.247	**********	**********	1818.247	1818.247
Ca	393.366		2.06E+03	2061.979	**********	**********	2061.979	2061.979
Al	396.152		7.60E+03	**********	**********	7604.119	7604.119	7604.12
Sr	421.552		1.38E+01	13.76523	**********	**********	13.76523	13.76523
Zn	481.053		2.64E+01	26.35249	**********	**********	26.35249	26.35249
Ba	493.409		1.02E+02	101.9088	**********	**********	101.9088	101.9088
Na	588.995		1.28E+02	128.1644	**********	**********	128.1644	128.1644
Li	670.784		6.50E+00	6.499644	**********	**********	6.499644	6.499644
K	766.49		9.50E+02	949.8164	**********	**********	949.8164	949.8164
K	769.896		9.72E+02	972.3397	**********	**********	972.3397	972.3397

RUN 1111a

XO
7-8-99

Analyte	WASH nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		3.82E-02	**********	**********	0.038202	0.038202	0.038202
Tl	190.864		-3.10E-02	-0.031	**********	**********	-0.031	-0.03107
Tl	190.883		-1.39E-02	**********	-0.01395	**********	-0.01395	-0.01395
As	193.759		-1.17E-02	**********	-0.01164	-0.01147	-0.01164	-0.01158
Se	196.09		2.42E-03	**********	0.002442	**********	0.002442	0.002419
Mo	202.030		1.48E-03	**********	0.00148	0.00148	0.00148	0.00148
Se	203.985		-7.51E-02	**********	**********	-0.07507	-0.07507	-0.07507
Cr	205.552		4.94E-13	**********	-7.2E-07	-7.3E-07	-7.2E-07	-7.3E-07
Sb	206.833		-3.09E-12	**********	**********	2.0E-06	2.0E-06	4.1E-06
Zn	213.856		1.25E-03	**********	**********	0.001173	0.001173	0.001173
Sb	217.581		-9.35E-03	**********	-0.00936	**********	-0.00936	-0.00936
Pb	220.353		8.09E-03	**********	0.008078	0.008086	0.008078	0.008078
Co	228.616		-2.43E-03	**********	-0.00242	-0.00242	-0.00242	-0.00242
Cd	228.802		-6.25E-04	**********	-0.0006	-0.0006	-0.0006	-0.0006
Ni	231.604		1.01E-02	**********	0.010057	0.010057	0.010057	0.010057
Be	234.861		-3.34E-04	**********	**********	-0.00033	-0.00033	-0.00033
B	249.678		4.40E-03	**********	0.004379	0.0044	0.004379	0.00438
Mn	257.610		-1.80E-03	**********	-0.0018	-0.0018	-0.0018	-0.0018
Fe	259.940		-5.81E-03	**********	**********	-0.00582	-0.00582	-0.00582
Fe	271.441		3.88E-02	**********	0.038917	**********	0.038917	0.038918
Mg	279.553		-4.63E-03	-0.00463	**********	**********	-0.00463	-0.00463
V	292.402		8.79E-03	**********	0.008792	0.008792	0.008792	0.008792
Al	308.215		-1.36E-01	**********	-0.13656	**********	-0.13656	-0.13656
Ca	315.887		-1.54E-02	-0.01543	**********	**********	-0.01543	-0.01543
Cu	324.754		1.63E-02	**********	0.016257	0.016257	0.016257	0.016257
Ag	328.068		-2.38E-03	**********	-0.00237	-0.00237	-0.00237	-0.00237
Ti	334.941		-2.73E-03	**********	-0.00273	-0.00273	-0.00273	-0.00273
Y	371.03		9.86E-04	**********	0.000986	0.000986	0.000986	0.000986
Mg	383.826		-1.84E-02	-0.01835	**********	**********	-0.01835	-0.01835
Ca	393.366		-3.02E-02	-0.03022	**********	**********	-0.03022	-0.03022
Al	396.152		-2.69E-02	**********	**********	-0.02699	-0.02699	-0.02699
Sr	421.552		-7.92E-04	-0.00079	**********	**********	-0.00079	-0.00079
Zn	481.053		5.34E-03	0.005338	**********	**********	0.005338	0.005338
Ba	493.409		-1.80E-04	-0.00018	**********	**********	-0.00018	-0.00018
Na	588.995		-3.97E-02	-0.03966	**********	**********	-0.03966	-0.03966
Li	670.784		-2.52E-03	-0.00252	**********	**********	-0.00252	-0.00252
K	766.49		-3.34E-02	-0.03345	**********	**********	-0.03345	-0.03345
K	769.896		9.01E-02	0.090126	**********	**********	0.090126	0.090126

RUN 1111a

7-8-99

INSTR BLK 3

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		4.51E-02	**********	**********	0.045058	0.045058	0.045058
Tl	190.864		-2.84E-02	-0.0284	**********	**********	-0.0284	-0.02841
Tl	190.883		3.13E-02	**********	0.031308	**********	0.031308	0.031308
As	193.759		-8.19E-03	**********	-0.00819	-0.00804	-0.00819	-0.00807
Se	196.09		-5.32E-03	**********	-0.0053	**********	-0.0053	-0.00531
Mo	202.030		-7.40E-04	**********	-0.00074	-0.00074	-0.00074	-0.00074
Se	203.985		-2.81E-02	**********	**********	-0.02579	-0.02579	-0.02578
Cr	205.552		-5.04E-03	**********	-0.00504	-0.00504	-0.00504	-0.00504
Sb	206.833		-3.53E-03	**********	**********	-0.00347	-0.00347	-0.00356
Zn	213.856		-6.27E-04	**********	**********	-0.00065	-0.00065	-0.00065
Sb	217.581		-6.50E-03	**********	-0.00652	**********	-0.00652	-0.00652
Pb	220.353		1.23E-02	**********	0.012274	0.01229	0.012274	0.012274
Co	228.616		-1.21E-03	**********	-0.00121	-0.00121	-0.00121	-0.00121
Cd	228.802		6.25E-04	**********	0.000639	0.000639	0.000639	0.000639
Ni	231.604		4.02E-03	**********	0.004023	0.004023	0.004023	0.004023
Be	234.861		3.34E-04	**********	**********	0.000334	0.000334	0.000334
B	249.678		-9.15E-03	**********	-0.00915	-0.00916	-0.00915	-0.00916
Mn	257.610		-1.08E-03	**********	-0.00108	-0.00108	-0.00108	-0.00108
Fe	259.940		1.16E-03	**********	**********	0.001159	0.001159	0.001159
Fe	271.441		-1.24E-10	**********	0.000063	**********	0.000063	0.000062
Mg	279.553		6.17E-04	0.000617	**********	**********	0.000617	0.000617
V	292.402		6.43E-03	**********	0.006424	0.006424	0.006424	0.006424
Al	308.215		-2.24E-01	**********	-0.2241	**********	-0.2241	-0.2241
Ca	315.887		8.75E-03	0.008746	**********	**********	0.008746	0.008746
Cu	324.754		2.58E-03	**********	0.00258	0.00258	0.00258	0.00258
Ag	328.068		-8.55E-04	**********	-0.00085	-0.00085	-0.00085	-0.00085
Ti	334.941		-1.09E-03	**********	-0.00109	-0.00109	-0.00109	-0.00109
Y	371.03		2.46E-04	**********	0.000247	0.000246	0.000247	0.000246
Mg	383.826		-7.14E-03	-0.00714	**********	**********	-0.00714	-0.00714
Ca	393.366		5.49E-03	0.005495	**********	**********	0.005495	0.005495
Al	396.152		-7.95E-03	**********	**********	-0.00793	-0.00793	-0.00793
Sr	421.552		1.98E-04	0.000198	**********	**********	0.000198	0.000198
Zn	481.053		-2.31E-01	-0.23131	**********	**********	-0.23131	-0.23131
Ba	493.409		7.21E-04	0.000721	**********	**********	0.000721	0.000721
Na	588.995		-2.64E-02	-0.02644	**********	**********	-0.02644	-0.02644
Li	670.784		-8.81E-04	-0.00088	**********	**********	-0.00088	-0.00088
K	766.49		-3.25E-02	-0.03249	**********	**********	-0.03249	-0.03249
K	769.896		4.55E-02	0.045509	**********	**********	0.045509	0.045509

RUN 1111a

7-8-99

SED5 AQC 3

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		5.50E+00	**********	**********	5.500039	5.500039	5.500049
Tl	190.864		5.00E+00	5.003143	**********	**********	5.003143	4.92277
Tl	190.883		5.13E+00	**********	5.041944	**********	5.041944	5.041952
As	193.759		5.26E+00	**********	5.337617	5.33502	5.337617	5.33513
Se	196.09		5.42E+00	**********	5.434635	**********	5.434635	5.425841
Mo	202.030		5.38E+00	**********	5.380679	5.380678	5.380679	5.380688
Se	203.985		8.10E+00	**********	**********	5.544078	5.544078	5.535154
Cr	205.552		5.40E+00	**********	5.39463	5.394629	5.39463	5.394638
Sb	206.833		5.16E+00	**********	**********	5.105325	5.105325	5.107163
Zn	213.856		5.26E+00	**********	**********	5.221968	5.221968	5.221972
Sb	217.581		5.11E+00	**********	5.100802	**********	5.100802	5.093065
Pb	220.353		5.32E+00	**********	5.326303	5.326285	5.326303	5.326315
Co	228.616		5.41E+00	**********	5.413218	5.413216	5.413218	5.413225
Cd	228.802		5.26E+00	**********	5.245837	5.245841	5.245837	5.24598
Ni	231.604		5.28E+00	**********	5.279082	5.279081	5.279082	5.279092
Be	234.861		5.34E+00	**********	**********	5.341225	5.341225	5.341235
B	249.678		5.17E+00	**********	5.168468	5.165641	5.168468	5.165443
Mn	257.610		5.46E+00	**********	5.459837	5.459836	5.459837	5.459845
Fe	259.940		5.14E+00	**********	**********	5.151255	5.151255	5.151263
Fe	271.441		5.60E+00	**********	5.074952	**********	5.074952	5.072215
Mg	279.553		5.37E+00	5.368389	**********	**********	5.368389	5.368389
V	292.402		5.31E+00	**********	5.317674	5.317673	5.317674	5.317686
Al	308.215		5.21E+00	**********	5.154921	**********	5.154921	5.155057
Ca	315.887		5.20E+00	5.198219	**********	**********	5.198219	5.198219
Cu	324.754		4.82E+00	**********	4.816802	4.816801	4.816802	4.816809
Ag	328.068		4.90E-01	**********	0.490082	0.49008	0.490082	0.490075
Ti	334.941		5.04E+00	**********	5.04351	5.043509	5.04351	5.043519
Y	371.03		5.00E+00	**********	5.00147	5.001469	5.00147	5.001479
Mg	383.826		4.99E+00	4.9948	**********	**********	4.9948	4.9948
Ca	393.366		4.95E+00	4.954784	**********	**********	4.954784	4.954784
Al	396.152		5.08E+00	**********	**********	4.934464	4.934464	4.934473
Sr	421.552		4.85E+00	4.854546	**********	**********	4.854546	4.854546
Zn	481.053		4.77E+00	4.768577	**********	**********	4.768577	4.768577
Ba	493.409		4.94E+00	4.943922	**********	**********	4.943922	4.943922
Na	588.995		4.87E+00	4.865701	**********	**********	4.865701	4.865701
Li	670.784		4.83E+00	4.833415	**********	**********	4.833415	4.833415
K	766.49		4.58E+00	4.579554	**********	**********	4.579554	4.579554
K	769.896		4.67E+00	4.674073	**********	**********	4.674073	4.674073

RUN 1111a

HIGH AQC 3

Analyte	nm	0.00E+00	raw result from JY SED5	not algebraically IEC corrected	IEC corrected values algebraic "B" correct	IEC corrected values algebraic "C" correct	IEC corrected values algebraic "combo" correct	IEC corrected values arithmetic correct
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sn	189.989		9.11E-02	**********	**********	0.091067	0.091067	0.091096
Tl	190.864		3.86E-01	0.386308	**********	**********	0.386308	0.249903
Tl	190.883		3.61E-02	**********	0.03587	**********	0.03587	0.03589
As	193.759		-7.68E-02	**********	-0.01919	-0.0219	-0.01919	-0.02203
Se	196.09		-1.45E-02	**********	-0.01454	**********	-0.01454	-0.01449
Mo	202.030		8.88E-03	**********	0.008859	0.00885	0.008859	0.008879
Se	203.985		-1.13E-01	**********	**********	-0.10975	-0.10975	-0.10472
Cr	205.552		-1.44E-03	**********	-0.00147	-0.00147	-0.00147	-0.00145
Sb	206.833		-5.53E-02	**********	**********	-0.0182	-0.0182	0.019398
Zn	213.856		9.59E+01	**********	**********	95.92086	95.92086	95.92088
Sb	217.581		-6.00E-03	**********	0.007434	**********	0.007434	0.007446
Pb	220.353		6.93E-03	**********	0.014772	0.014379	0.014772	0.014782
Co	228.616		-2.83E-03	**********	-0.00283	-0.00283	-0.00283	-0.00281
Cd	228.802		-6.40E-13	**********	0.000013	8.9E-06	0.000013	0.000132
Ni	231.604		-1.45E-12	**********	-1.9E-05	-2.8E-05	-1.9E-05	9.0E-07
Be	234.861		6.68E-04	**********	**********	0.000639	0.000639	0.000668
B	249.678		5.87E-02	**********	0.012794	0.014561	0.012794	0.012805
Mn	257.610		2.20E-12	**********	-2.1E-05	-2.9E-05	-2.1E-05	-3.1E-07
Fe	259.940		9.60E+01	**********	**********	96.00408	96.00408	96.0041
Fe	271.441		9.99E+01	**********	99.86956	**********	99.86956	99.86957
Mg	279.553		5.19E+01	51.93678	**********	**********	51.93678	51.93678
V	292.402		-1.74E-02	**********	-0.01739	-0.0174	-0.01739	-0.01737
Al	308.215		1.03E+02	**********	103.2335	**********	103.2335	103.2335
Ca	315.887		1.06E+02	106.2692	**********	**********	106.2692	106.2692
Cu	324.754		-1.70E-02	**********	-0.01706	-0.01707	-0.01706	-0.01704
Ag	328.068		-5.21E-03	**********	-0.00525	-0.00526	-0.00525	-0.00523
Ti	334.941		-2.46E-03	**********	-0.00248	-0.00248	-0.00248	-0.00246
Y	371.03		2.22E-03	**********	0.002198	0.002189	0.002198	0.002218
Mg	383.826		5.61E+01	56.10917	**********	**********	56.10917	56.10917
Ca	393.366		8.23E+01	82.3256	**********	**********	82.3256	82.3256
Al	396.152		9.82E+01	**********	**********	98.193	98.193	98.19302
Sr	421.552		1.58E-03	0.001584	**********	**********	0.001584	0.001584
Zn	481.053		9.70E+01	97.02275	**********	**********	97.02275	97.02275
Ba	493.409		1.26E-03	0.001262	**********	**********	0.001262	0.001262
Na	588.995		9.60E+01	95.9935	**********	**********	95.9935	95.9935
Li	670.784		1.20E-03	0.001196	**********	**********	0.001196	0.001196
K	766.49		9.59E+01	95.88586	**********	**********	95.88586	95.88586
K	769.896		9.90E+01	99.03895	**********	**********	99.03895	99.03895

QA CHECK AUDITS
corrected values

Analyte	nm	estimated mdl ug/L	INSTR BLK 1 mg/L		DIGEST BLK1 mg/L		INSTR BLK 2 mg/L	DIGEST BLK2 mg/L		INSTR BLK 3 mg/L	
Sn	189.989	40.0	0.017632		0.090117	blank > idl	0.037222	0.065628	blank > idl	0.045058	blank > idl
Tl	190.864	50.0	-0.00412		-0.00932		-0.03338	0.014958		-0.0284	
Tl	190.883	50.0	0.086451	blank > idl	0.04549		0.031638	0.072618	blank > idl	0.031308	
As	193.759	50.0	0.000952		-0.03262		0.012845	0.003971		-0.00819	
Se	196.090	80.0	0.01065		0.010659		0.013065	0.004836		-0.0053	
Mo	202.030	15.0	0.00222		0.007399		0.00444	-0.00148		-0.00074	
Se	203.985	100.0	-0.0627		-0.0411		-0.02856	-0.02432		-0.02579	
Cr	205.552	10.0	-0.00216		-3.7E-06		-2.2E-06	0.005764		-0.00504	
Sb	206.833	50.0	-0.02112		0.002033		0.004061	0.004859		-0.00347	
Zn	213.856	20.0	0.034477	blank > idl	0.020049	blank > idl	0.005649	0.015645		-0.00065	
Sb	217.581	50.0	-0.01768		-0.01077		-0.01688	-0.01199		-0.00652	
Pb	220.353	50.0	0.00253		0.004319		0.014866	0.007553		0.012274	
Co	228.616	10.0	-0.00242		-0.00241		-0.0012	-0.00162		-0.00121	
Cd	228.802	10.0	-0.00063		0.000681		0.003728	-6.5E-06		0.000639	
Ni	231.604	20.0	0.005531		0.003018		-0.0005	0.008045		0.004023	
Be	234.861	2.0	1.9E-09		-1.7E-08		-0.00067	-2.3E-08		0.000334	
B	249.678	50.0	-0.00349		0.046712		-0.00772	0.04154		-0.00915	
Mn	257.610	5.0	-0.00036		-0.00036		-0.00108	-0.00072		-0.00108	
Fe	259.940	80.0	-0.00078		0.015503		-0.00078	0.07442		0.001159	
Fe	271.441	200.0	0.058327		0.000188		0.019467	0.11641		0.000063	
Mg	279.553	200.0	0.000308		0.055204		0.000925	0.061989		0.000617	
V	292.402	5.0	0.005357	blank > idl	0.004717		0.003002	0.003226		0.006424	blank > idl
Al	308.215	200.0	-0.12673		-0.02937		-0.08776	-0.03903		-0.2241	blank > idl
Ca	315.887	500.0	-0.01132		0.147139		0.021093	0.166689		0.008746	
Cu	324.754	6.0	0.000515		0.004644		-0.00052	0.001806		0.00258	
Ag	328.068	6.0	-0.00258		0.002288		-0.00049	-0.00152		-0.00085	
Ti	334.941	25.0	-0.00109		-0.00027		-0.00082	-0.00055		-0.00109	
Y	371.030	5.0	-1.5E-09		0.000246		0.000493	0.000493		0.000247	
Mg	383.826	200.0	0.006117		0.037724		0.00102	0.036704		-0.00714	
Ca	393.366	200.0	0.004808		0.164839		0.004579	0.166213		0.005495	
Al	396.152	200.0	0.008995		0.041984		-0.00189	0.022349		-0.00793	
Sr	421.552	10.0	-1.5E-12		0.000198		-0.0004	0.000792		0.000198	
Zn	481.053	500.0	0.085407		0.049821		-0.11744	-0.04804		-0.23131	
Ba	493.409	6.0	-3.8E-13		0.001623		0.000361	0.001443		0.000721	
Na	588.995	500.0	-0.01586		0.375403		-0.0119	0.419024		-0.02644	
Li	670.784	10.0	0.001447		-0.00082		-0.00126	-0.00031		-0.00088	
K	766.490	500.0	-0.0258		0.360286		-0.00096	0.203557		-0.03249	
K	769.896	500.0	0.109758		0.4426		0.074956	0.241824		0.045509	

QA
7-8-96

QA CHECK AUDITS
corrected values

Analyte	nm	SED5 AQC 1 mg/L	percent deviation	SED5 AQC 2 mg/L	percent deviation	SED5 AQC 3 mg/L	percent deviation	
Sn	189.989	5.065129	1.30	5.201283	4.03	5.500039	10.00	> 10%
Tl	190.864	4.863535	-2.73	4.952199	-0.96	5.003143	0.06	
Tl	190.883	4.92398	-1.52	4.872581	-2.55	5.041944	0.84	
As	193.759	5.125259	2.51	5.17813	3.56	5.337617	6.75	
Se	196.090	5.243129	4.86	5.300292	6.01	5.434635	8.69	
Mo	202.030	5.016639	0.33	5.328145	6.56	5.380679	7.61	
Se	203.985	5.358335	7.17	5.315553	6.31	5.544078	10.88	> 10%
Cr	205.552	5.161398	3.23	5.341346	6.83	5.39463	7.89	
Sb	206.833	4.960902	-0.78	5.012416	0.25	5.105325	2.11	
Zn	213.856	5.102287	2.05	5.150034	3.00	5.221968	4.44	
Sb	217.581	5.026418	0.53	5.023606	0.47	5.100802	2.02	
Pb	220.353	5.223745	4.47	5.300057	6.00	5.326303	6.53	
Co	228.616	5.255546	5.11	5.416342	8.33	5.413218	8.26	
Cd	228.802	5.105612	2.11	5.191113	3.82	5.245837	4.92	
Ni	231.604	5.115725	2.31	5.379639	7.59	5.279082	5.58	
Be	234.861	5.226701	4.53	5.375282	7.51	5.341225	6.82	
B	249.678	5.218597	4.37	5.22912	4.58	5.168468	3.37	
Mn	257.610	5.20962	4.19	5.37703	7.54	5.459837	9.20	
Fe	259.940	5.041816	0.84	5.080265	1.61	5.151255	3.03	
Fe	271.441	4.857012	-2.86	5.172228	3.44	5.074952	1.50	
Mg	279.553	5.287587	5.75	5.385659	7.71	5.368389	7.37	
V	292.402	5.221211	4.42	5.193646	3.87	5.317674	6.35	
Al	308.215	5.179415	3.59	5.361963	7.24	5.154921	3.10	
Ca	315.887	5.262528	5.25	5.206451	4.13	5.198219	3.96	
Cu	324.754	4.777612	-4.45	4.82454	-3.51	4.816802	-3.66	
Ag	328.068	0.487802	-2.44	0.495829	-0.83	0.490082	-1.98	
Ti	334.941	4.985121	-0.30	5.033142	0.66	5.04351	0.87	
Y	371.030	5.016013	0.32	5.060627	1.21	5.00147	0.03	
Mg	383.826	4.978487	-0.43	4.955038	-0.90	4.9948	-0.10	
Ca	393.366	5.095584	1.91	5.139083	2.78	4.954784	-0.90	
Al	396.152	4.893207	-2.14	4.896811	-2.06	4.934464	-1.31	
Sr	421.552	4.663841	-6.72	4.761867	-4.76	4.854546	-2.91	
Zn	481.053	4.725874	-5.48	4.919819	-1.60	4.768577	-4.63	
Ba	493.409	4.800389	-3.99	4.867648	-2.65	4.943922	-1.12	
Na	588.995	5.045471	0.91	4.812827	-3.74	4.865701	-2.69	
Li	670.784	4.936437	-1.27	4.857456	-2.85	4.833415	-3.33	
K	766.490	4.677032	-6.46	4.676077	-6.48	4.579554	-8.41	
K	769.896	4.765984	-4.68	4.651765	-6.96	4.674073	-6.52	

7-8-09

QA CHECK AUDITS
corrected values

Analyte	nm	HIGH AQC 1 mg/L	percent deviation	HIGH AQC 2 mg/L	percent deviation	HIGH AQC 3 mg/L	percent deviation
Sn	189.989	0.097924		0.092046		0.091067	
Tl	190.864	0.347287		0.337965		0.386308	
Tl	190.883	0.00198		0.154068		0.03587	
As	193.759	-0.00064		-0.01251		-0.01919	
Se	196.090	0.028474		-0.00921		-0.01454	
Mo	202.030	0.008119		0.010339		0.008859	
Se	203.985	-0.15877		-0.0618		-0.10975	
Cr	205.552	0.004299		0.001415		-0.00147	
Sb	206.833	-0.00842		-0.00527		-0.0182	
Zn	213.856	95.12922		95.45102		95.92086	
Sb	217.581	-0.00169		-0.00522		0.007434	
Pb	220.353	0.012366		0.021895		0.014772	
Co	228.616	-0.00121		-0.00323		-0.00283	
Cd	228.802	0.002481		0.001252		0.000013	
Ni	231.604	0.005008		0.004506		-1.9E-05	
Be	234.861	0.000305		0.00164		0.000639	
B	249.678	0.003624		0.003026		0.012794	
Mn	257.610	0.0007		0.00106		-2.1E-05	
Fe	259.940	95.04552		99.18754		96.00408	
Fe	271.441	97.07855	-2.92	98.06714	-1.93	99.86956	-0.13
Mg	279.553	51.18119		53.28635		51.93678	
V	292.402	-0.01331		-0.0116		-0.01739	
Al	308.215	101.5485	1.55	104.8792	4.88	103.2335	3.23
Ca	315.887	102.2527	2.25	105.6308	5.63	106.2692	6.27
Cu	324.754	-0.01499		-0.01783		-0.01706	
Ag	328.068	-0.00372		-0.00271		-0.00525	
Ti	334.941	-0.00248		-0.00302		-0.00248	
Y	371.030	0.002445		0.002445		0.002198	
Mg	383.826	55.29047	-7.85	56.09694	-6.51	56.10917	-6.48
Ca	393.366	82.32629		82.32606		82.3256	
Al	396.152	97.55028		97.89699		98.193	
Sr	421.552	0.001188		0.001188		0.001584	
Zn	481.053	95.88043	-4.12	97.88394	-2.12	97.02275	-2.98
Ba	493.409	0.000361		0.001082		0.001262	
Na	588.995	97.14086	-2.86	98.95971	-1.04	95.9935	-4.01
Li	670.784	0.000503		0.001259		0.001196	
K	766.490	100.4176	0.42	99.3167	-0.68	95.88586	-4.11
K	769.896	99.89113	-0.11	99.78584	-0.21	99.03895	-0.96

7-8-99

QA LAB DUP and MATRIX SPIKE check audits

Analyte	nm	99IE19S01 0.5004 mg/kg	99IE19S01 D 0.5281 mg/kg	99IE19S01 S 0.5005 mg/kg	99IE19S01 digested sample ug/L	99IE19S01 D digested sample ug/L	99IE19S01 S digested sample ug/L	dup rpd % rpd	dup diff ug/L	estimated det lim ug/L	dup diff divided by est. det. lim	dup out	Analyte	spk add ug/L	spk recovery % rec	spk out
Sn	189.989	28.769	35.421	27.393	143.959	187.058	137.102	26.0	-43.10	40.0	-1.08	*	Sn			
Tl	190.864	221.029	214.444	240.562	1106.029	1132.476	1204.015	2.4	-26.45	50.0	-0.53		Tl	200	48.88	N
Tl	190.883	32.633	33.089	73.514	163.297	174.742	367.939	6.8	-11.45	50.0	-0.23		Tl	200	102.30	
As	193.759	26.937	23.119	63.468	134.792	122.093	317.655	9.9	12.70	50.0	0.25		As	200	91.42	
Se	196.090	1.730	3.733	35.635	8.655	19.715	178.354	78.0	-11.06	80.0	-0.14		Se	200	84.85	
Mo	202.030	-0.894	-0.007	-0.155	-4.472	-0.035	-0.774	-196.9	-4.44	15.0	-0.30		Mo			
Se	203.985	-21.317	-21.655	40.303	-106.670	-114.358	201.717	-7.0	7.69	100.0	0.08		Se	200	154.20	N
Cr	205.552	9.640	9.270	115.144	48.237	48.953	576.294	1.5	-0.72	10.0	-0.07		Cr	500	105.61	
Sb	206.833	-2.260	1.061	25.032	-11.309	5.604	125.286	-592.9	-16.91	50.0	-0.34		Sb	200	68.30	N
Zn	213.856	323.530	333.988	529.841	1618.944	1763.791	2651.853	8.6	-144.85	20.0	-7.24		Zn	1000	103.26	
Sb	217.581	-4.021	-3.013	16.903	-20.121	-15.910	84.599	-23.4	-4.21	50.0	-0.08		Sb	200	52.36	N
Pb	220.353	74.196	73.999	281.526	371.277	390.788	1409.036	5.1	-19.51	50.0	-0.39		Pb	1000	103.77	
Co	228.616	5.492	5.723	107.159	27.483	30.224	536.332	9.5	-2.74	10.0	-0.27		Co	500	101.77	
Cd	228.802	2.944	3.385	24.714	14.731	17.875	123.696	19.3	-3.14	10.0	-0.31		Cd	100	108.96	
Ni	231.604	21.193	21.604	127.842	106.047	114.089	639.848	7.3	-8.04	20.0	-0.40		Ni	500	106.76	
Be	234.861	0.794	0.753	11.601	3.975	3.974	58.065	0.0	0.00	2.0	0.00		Be	50	108.18	
B	249.678	27.319	31.784	247.133	136.705	167.850	1236.903	20.5	-31.15	50.0	-0.62		B	1000	110.02	
Mn	257.610	499.810	505.567	915.339	2501.049	2669.897	4581.270	6.5	-168.85	5.0	-33.77		Mn	2000	103.99	
Fe	259.940	55540.342	54269.805	54427.351	277923.871	286598.839	272408.891	3.1	-8674.97	80.0	-108.44		Fe			
Fe	271.441	58162.596	58616.661	58486.645	291045.632	309554.585	292725.656	6.2	-18508.95	200.0	-92.54		Fe			
Mg	279.553	4655.767	4685.335	4846.472	23297.456	24743.254	24256.592	6.0	-1445.80	200.0	-7.23		Mg			
V	292.402	10.273	8.068	110.316	51.408	42.607	552.130	18.7	8.80	5.0	1.76		V	500	100.14	
Al	308.215	6186.367	5884.290	7183.916	30956.581	31074.937	35955.497	0.4	-118.36	200.0	-0.59		Al			
Ca	315.887	15730.859	16437.562	16270.969	78717.216	86806.765	81436.198	9.8	-8089.55	500.0	-16.18		Ca			
Cu	324.754	17.460	18.065	112.952	87.367	95.401	565.327	8.8	-8.03	6.0	-1.34		Cu	500	95.59	
Ag	328.068	-0.383	-0.794	19.369	-1.916	-4.193	96.941	-74.5	2.28	6.0	0.38		Ag	100	98.86	
Ti	334.941	160.952	165.167	193.028	805.402	872.247	966.106	8.0	-66.84	25.0	-2.67		Ti			
Y	371.030	7.136	7.321	106.714	35.708	38.664	534.104	7.9	-2.96	5.0	-0.59		Y	500	99.68	
Mg	383.826	4524.428	4477.084	4601.544	22640.240	23643.482	23030.729	4.3	-1003.24	200.0	-5.02		Mg			
Ca	393.366	14953.947	14472.092	14355.845	74829.552	76427.116	71851.004	2.1	-1597.56	200.0	-7.99		Ca			
Al	396.152	5842.148	5621.681	6860.372	29234.109	29688.100	34336.160	1.5	-453.99	200.0	-2.27		Al			
Sr	421.552	54.692	54.411	250.576	273.680	287.344	1254.134	4.9	-13.66	10.0	-1.37		Sr	1000	98.04	
Zn	481.053	279.841	288.074	488.824	1400.325	1521.318	2446.565	8.3	-120.99	500.0	-0.24		Zn	1000	104.60	
Ba	493.409	361.642	367.462	472.210	1809.658	1940.568	2363.410	7.0	-130.91	6.0	-21.82		Ba	500	110.68	
Na	588.995	260.987	263.067	303.984	1305.980	1389.256	1521.440	6.2	-83.28	500.0	-0.17		Na			
Li	670.784	6.376	6.364	105.560	31.907	33.606	528.326	5.2	-1.70	10.0	-0.17		Li	500	99.28	
K	766.490	960.632	998.555	1150.428	4807.003	5273.368	5757.891	9.3	-466.37	500.0	-0.93		K			
K	769.896	947.085	965.166	1152.999	4739.214	5097.042	5770.758	7.3	-357.83	500.0	-0.72		K			

7-8-99

QA LAB DUP and MATRIX SPIKE check audits

Analyte	nm	99IE19S11 0.5237 mg/kg	99IE19S11 D 0.5331 mg/kg	99IE19S11 S 0.5331 mg/kg	99IE19S11 digested sample ug/L	99IE19S11 D digested sample ug/L	99IE19S11 S digested sample ug/L	dup rpd % rpd	dup diff ug/L	estimated det lim ug/L	dup diff divided by est. det. lim	dup out	Analyte	spk add ug/L	spk recovery % rec	spk out
Sn	189.989	23.18834	25.35189	28.24155	121.437	135.151	150.556	10.7	-13.71	40.0	-0.34		Sn			
Tl	190.864	104.6041	94.13872	139.8837	547.812	501.853	745.720	8.8	45.96	50.0	0.92		Tl	200	94.04	
Tl	190.883	12.90955	14.27181	52.26542	67.607	76.083	278.627	11.8	-8.48	50.0	-0.17		Tl	200	104.90	
As	193.759	4.646947	4.356565	38.86074	24.336	23.225	207.167	4.7	1.11	50.0	0.02		As	200	91.20	
Se	196.090	-3.74356	0.306552	37.85863	-19.605	1.634	201.824	-236.4	-21.24	80.0	-0.27		Se	200	110.89	
Mo	202.030	-0.14625	0.550477	0.579662	-0.766	2.935	3.090	341.3	-3.70	15.0	-0.25		Mo			
Se	203.985	-7.08327	-13.6715	30.71671	-37.095	-72.883	163.751	-65.1	35.79	100.0	0.36		Se	200	100.76	
Cr	205.552	32.59717	31.21141	131.6121	170.711	166.388	701.624	2.6	4.32	10.0	0.43		Cr	500	105.57	
Sb	206.833	-3.04245	0.266371	13.98881	-15.933	1.420	74.574	-239.1	-17.35	50.0	-0.35		Sb	200	45.40	N
Zn	213.856	124.608	117.461	323.987	652.572	626.185	1727.174	4.1	26.39	20.0	1.32		Zn	1000	106.29	
Sb	217.581	-4.08241	0.389378	13.69837	-21.380	2.076	73.026	-243.0	-23.46	50.0	-0.47		Sb	200	47.39	N
Pb	220.353	41.6198	39.86789	245.779	217.963	212.536	1310.248	2.5	5.43	50.0	0.11		Pb	1000	108.84	
Co	228.616	8.843718	7.714846	111.8631	46.315	41.128	596.342	11.9	5.19	10.0	0.52		Co	500	109.84	
Cd	228.802	1.059559	0.45542	22.1277	5.549	2.428	117.963	78.3	3.12	10.0	0.31		Cd	100	112.31	
Ni	231.604	25.81821	26.4009	132.8321	135.210	140.743	708.128	4.0	-5.53	20.0	-0.28		Ni	500	114.10	
Be	234.861	1.142997	1.060251	12.06355	5.986	5.652	64.311	5.7	0.33	2.0	0.17		Be	50	116.43	
B	249.678	16.86472	22.32422	207.8575	88.321	119.010	1108.088	29.6	-30.69	50.0	-0.61		B	1000	101.82	
Mn	257.610	181.4166	179.0283	600.6525	950.079	954.400	3202.078	0.5	-4.32	5.0	-0.86		Mn	2000	111.75	
Fe	259.940	26326.37	25799.61	26430.37	137871.177	137537.720	140900.310	0.2	333.46	80.0	4.17		Fe			
Fe	271.441	27888.19	27051.18	27459.49	146050.456	144209.863	146386.564	1.3	1840.59	200.0	9.20		Fe			
Mg	279.553	4247.048	4199.119	4146.916	22241.789	22385.505	22107.210	0.6	-143.72	200.0	-0.72		Mg			
V	292.402	41.84593	38.89563	144.3787	219.147	207.353	769.683	5.5	11.79	5.0	2.36		V	500	109.32	
Al	308.215	20982.43	19207.47	19218.04	109885.006	102395.018	102451.387	7.1	7489.99	200.0	37.45		Al			
Ca	315.887	5013.96	4921.593	5100.207	26258.108	26237.014	27189.206	0.1	21.09	500.0	0.04		Ca			
Cu	324.754	36.4716	37.32507	128.8455	191.002	198.980	686.875	4.1	-7.98	6.0	-1.33		Cu	500	98.49	
Ag	328.068	0.01813	-0.14612	19.22087	0.095	-0.779	102.466	-255.5	0.87	6.0	0.15		Ag	100	102.37	
Ti	334.941	388.6556	374.1256	396.1926	2035.389	1994.464	2112.103	2.0	40.93	25.0	1.64		Ti			
Y	371.030	14.115	14.09747	112.6988	73.920	75.154	600.797	1.7	-1.23	5.0	-0.25		Y	500	105.11	
Mg	383.826	4081.53	3892.516	3949.945	21374.972	20751.004	21057.158	3.0	623.97	200.0	3.12		Mg			
Ca	393.366	4945.159	4989.162	4906.244	25897.800	26597.221	26155.186	2.7	-699.42	200.0	-3.50		Ca			
Al	396.152	18844.38	18182.29	18460.69	98688.024	96929.778	98413.964	1.8	1758.25	200.0	8.79		Al			
Sr	421.552	33.76784	33.02383	225.6457	176.842	176.050	1202.917	0.4	0.79	10.0	0.08		Sr	1000	102.29	
Zn	481.053	26.84099	65.41863	253.7367	140.566	348.747	1352.670	85.1	-208.18	500.0	-0.42		Zn	1000	120.96	N
Ba	493.409	246.1148	241.5722	330.1116	1288.903	1287.821	1759.825	0.1	1.08	6.0	0.18		Ba	500	89.56	
Na	588.995	150.6855	145.301	144.8988	789.140	774.599	772.455	1.9	14.54	500.0	0.03		Na			
Li	670.784	17.67713	16.20852	114.4312	92.575	86.408	610.033	6.9	6.17	10.0	0.62		Li	500	103.16	
K	766.490	2137.248	2031.979	2138.594	11192.768	10832.481	11400.846	3.3	360.29	500.0	0.72		K			
K	769.896	2150.849	2073.588	2145.456	11263.999	11054.299	11437.428	1.9	209.70	500.0	0.42		K			

XD
7-8-99

QA CHECK AUDITS
corrected values

Analyte	nm	LCS 0287 "true value" mg/kg	LCS 0287 1987 Control limits lower mg/kg	upper mg/kg	LCS 0287 "actual" mg/kg	Analyte	
Sn	189.989				26.10	Sn	
Tl	190.864	39	24.6	53.5	126.35	Tl	> upper limit
Tl	190.883	39	24.6	53.5	62.80	Tl	> upper limit
As	193.759	917	635	1199	1074.93	As	
Se	196.090	39.2	19.1	59.4	39.14	Se	
Mo	202.030				51.56	Mo	
Se	203.985	39.2	19.1	59.4	29.07	Se	
Cr	205.552	99.6	79.2	120	100.53	Cr	
Sb	206.833	211	127	294	231.45	Sb	
Zn	213.856	187	138	236	197.23	Zn	
Sb	217.581	211	127	294	230.88	Sb	
Pb	220.353	236	188	285	240.44	Pb	
Co	228.616	144	125	162	154.34	Co	
Cd	228.802	45.4	35.7	55.1	54.64	Cd	
Ni	231.604	60.9	49.2	72.6	62.09	Ni	
Be	234.861	19.4	16.5	22.3	20.56	Be	
B	249.678				18.83	B	
Mn	257.610	208	177	239	210.33	Mn	
Fe	259.940	22430	17770	27080	22047.94	Fe	
Fe	271.441	22430	17770	27080	22171.35	Fe	
Mg	279.553	118100	100400	129900	41705.78	Mg	< lower limit
V	292.402	65.8	51.7	79.9	63.33	V	
Al	308.215	325	225	424	311.72	Al	
Ca	315.887	196200	166800	225600	192940.20	Ca	
Cu	324.754	6910	6006	7820	6591.74	Cu	
Ag	328.068	22.2	15.5	29	22.81	Ag	
Ti	334.941				12.49	Ti	
Y	371.030				4.47	Y	
Mg	383.826	118100	100400	129900	118280.06	Mg	
Ca	393.366	196200	166800	225600	16176.71	Ca	< lower limit
Al	396.152	325	225	424	270.69	Al	
Sr	421.552				53.96	Sr	
Zn	481.053	187	138	236	185.48	Zn	
Ba	493.409	4.8	0	40	5.20	Ba	
Na	588.995	50	0	1000	139.88	Na	
Li	670.784				0.02	Li	
K	766.490	50	0	1000	108.30	K	
K	769.896	50	0	1000	112.93	K	

JKC
7-8-96

"B" set of IEC CORRECTION FACTORS

mg/L of analyte per 1 mg/L of interfering element

Analyte	nm	Interfering element:	AS	SE 196.09	MO	CR	PB	CO	MN	FE 271.441	V	AL 308.215	AG	TI	Y
Tl	190.863				0.020279			0.000287						-0.00354	
As	193.759			0.001328	-0.00044	0.00148			-0.00036		-0.01626	-0.00056			
Se	196.09				-0.00256				0.000225		-0.00247		0.000434		0.00127
Mo	202.030														
Cr	205.552				0.000496										
Sb	217.581				-0.00076		0.000426	0.000212	0.000055	-0.00013	0.001284				
Pb	220.353				-0.00018							-7.6E-05			
Co	228.616				-0.00239									0.001468	
Cd	228.802		0.00171					0.000175							
Ni	231.604							0.000317							
B	249.678									0.000459					
Mn	257.610										-1.8E-05				
Fe	271.441							0.09297	-0.00293		0.007302				
V	292.402					-0.00175								0.000131	
Al	308.215				0.010377	0.003885			0.000118		0.015977			-0.02121	
Cu	324.754				0.000194									-0.00054	0.000147
Ag	328.068				-0.00022				0.000181		-0.00154				0.001664
Ti	334.941														
Y	371.03														

"C" set of IEC CORRECTION FACTORS

mg/L of analyte per 1 mg/L of interfering element

Analyte	nm	Interfering element:	SN	AS	MO	SE 203.985	CR	SB 206.833	ZN 213.856	CO	NI	BE	B	MN	FE 259.940	V	CU	AG	TI	Y	AL 396.15
Sn	189.989																				
As	193.759				-0.00044	0.001328	0.00148						0.000451	-0.00036		-0.01626					-0.000
Mo	202.030																				
Se	203.985		-0.00141		-0.01184		0.356734	0.135331		0.001197			0.000359	0.000998				0.000375		0.000586	
Cr	205.552				0.000498																
Sb	206.833				0.00043		0.010791		-0.00039		-0.00019		0.000063						0.000221		
Zn	213.856										0.004025						0.002507				
Pb	220.353				-0.00018																-7.6E-0
Co	228.616				-0.00239														0.001468		
Cd	228.802			0.00171						0.000175											
Ni	231.604									0.000317											
Be	234.861																				
B	249.678											0.000523			0.000459						
Mn	257.610															-1.8E-05					
Fe	259.940											0.000578		-0.00017		0.000042			-0.00278		
V	292.402						-0.00175												0.000131		
Cu	324.754				0.000194														-0.00054	0.000147	
Ag	328.068				-0.00022									0.000181		-0.00154				0.001664	
Ti	334.941																				
Y	371.03																				
Al	396.152				0.027428																

JKU
7-8-99

FOR RUN 1111a (SD) 7-JUL-99

Zero Order not found...
Zero Order has been found at step number : 14114.0Zero Order has been found at step number : 14201.0Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011923nm #Steps = 26.49

C	:	193.091nm	(calc:	193.034473nm)	Offset =	-0.000527nm	#Steps =	-1.17
Ref.		193.031nm	(calc:	193.034743nm)	Offset =	0.011893nm	#Steps =	26.42
C	:	193.091nm	(calc:	193.034473nm)	Offset =	-0.000426nm	#Steps =	-0.95
Ref.		193.031nm	(calc:	193.034743nm)	Offset =	0.011974nm	#Steps =	26.60
Zn	:	213.856nm	(calc:	213.859907nm)	Offset =	-0.000172nm	#Steps =	-0.39
Fe	:	259.940nm	(calc:	259.931986nm)	Offset =	-0.005737nm	#Steps =	-14.48
Fe	:	271.441nm	(calc:	271.437743nm)	Offset =	-0.005161nm	#Steps =	-13.42
Mg	:	279.553nm	(calc:	279.561147nm)	Offset =	-0.010833nm	#Steps =	-28.84
Al	:	308.215nm	(calc:	308.198565nm)	Offset =	-0.003510nm	#Steps =	-10.32
Al	:	308.215nm	(calc:	308.198565nm)	Offset =	-0.006313nm	#Steps =	-18.56
Al	:	308.215nm	(calc:	308.198565nm)	Offset =	-0.006253nm	#Steps =	-18.38
Ca	:	315.887nm	(calc:	315.921236nm)	Offset =	-0.017737nm	#Steps =	-18.86
Mg	:	383.826nm	(calc:	383.830539nm)	Offset =	0.004904nm	#Steps =	5.44
Ca	:	393.366nm	(calc:	393.364355nm)	Offset =	0.003276nm	#Steps =	3.66
Al	:	396.152nm	(calc:	396.146665nm)	Offset =	0.008135nm	#Steps =	9.10
Zn	:	481.053nm	(calc:	481.073346nm)	Offset =	-0.004656nm	#Steps =	-5.62
Na	:	588.995nm	(calc:	589.000637nm)	Offset =	-0.016360nm	#Steps =	-22.85
K	:	766.490nm	(calc:	766.419197nm)	Offset =	-0.011727nm	#Steps =	-30.24
K	:	769.896nm	(calc:	769.819900nm)	Offset =	-0.006284nm	#Steps =	-16.65
Ref.		193.031nm	(calc:	193.034743nm)	Offset =	0.009513nm	#Steps =	21.13
Sn	:	189.989nm	(calc:	189.932372nm)	Offset =	0.001110nm	#Steps =	2.46
Tl	:	190.864nm	(calc:	190.795667nm)	Offset =	0.008976nm	#Steps =	19.88
Tl	:	190.883nm	(calc:	190.817612nm)	Offset =	0.001497nm	#Steps =	3.32
As	:	193.759nm	(calc:	193.702587nm)	Offset =	0.001097nm	#Steps =	2.44
Se	:	196.090nm	(calc:	196.030521nm)	Offset =	0.003471nm	#Steps =	7.75
Mo	:	202.030nm	(calc:	202.029991nm)	Offset =	0.006117nm	#Steps =	13.77
Se	:	203.985nm	(calc:	203.985412nm)	Offset =	0.006096nm	#Steps =	13.77
Cr	:	205.552nm	(calc:	205.561463nm)	Offset =	-0.003913nm	#Steps =	-8.86
Sb	:	206.833nm	(calc:	206.836973nm)	Offset =	-0.001036nm	#Steps =	-2.35
Sb	:	217.581nm	(calc:	217.595255nm)	Offset =	-0.004708nm	#Steps =	-10.87
Pb	:	220.353nm	(calc:	220.368499nm)	Offset =	-0.005173nm	#Steps =	-12.01
Co	:	228.616nm	(calc:	228.642261nm)	Offset =	-0.005487nm	#Steps =	-12.93
Cd	:	228.802nm	(calc:	228.826787nm)	Offset =	-0.004963nm	#Steps =	-11.70
Ni	:	231.604nm	(calc:	231.623897nm)	Offset =	-0.001413nm	#Steps =	-3.35
Be	:	234.861nm	(calc:	234.880202nm)	Offset =	-0.001995nm	#Steps =	-4.76
B	:	249.678nm	(calc:	249.682209nm)	Offset =	0.088903nm	#Steps =	218.98
Mn	:	257.610nm	(calc:	257.603188nm)	Offset =	0.000594nm	#Steps =	1.49
V	:	292.402nm	(calc:	292.405596nm)	Offset =	-0.004838nm	#Steps =	-13.42
Cu	:	324.754nm	(calc:	324.786132nm)	Offset =	0.001217nm	#Steps =	1.30
Ag	:	328.068nm	(calc:	328.029600nm)	Offset =	0.081443nm	#Steps =	87.17
Ti	:	334.941nm	(calc:	334.983043nm)	Offset =	0.000672nm	#Steps =	0.72
Y	:	371.030nm	(calc:	371.026328nm)	Offset =	0.014446nm	#Steps =	15.88
Sr	:	421.552nm	(calc:	421.547928nm)	Offset =	0.002123nm	#Steps =	2.42
Ba	:	493.409nm	(calc:	493.413437nm)	Offset =	-0.007179nm	#Steps =	-8.78
Li	:	670.784nm	(calc:	670.758730nm)	Offset =	-0.003042nm	#Steps =	-5.09
Li	:	670.784nm	(calc:	670.758730nm)	Offset =	-0.000687nm	#Steps =	-1.15

Ordered list of Calibration Standards:

Num	Standard Name	Elements
1	STDLOW	Li Be B Na Mg Al K Ca Ti V Cr Mn Fe Co Ni Cu Zn As Se Sr Y Mo Ag Cd Sn Sb Ba Tl Pb
2	STDT1	Li Na Mg Cr Co As Sr Y Mo Ag Sn Pb
3	STDT4	Se Tl
4	STDT5	Sb
5	STDT2	Be B K Ca V Mn Ni Cu Zn Cd
6	STDT3	Mg Al Ti Fe Ba
7	STDALFE	Al Fe
8	STDCAZN	Ca Zn

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009675nm #Steps = 21.49

Printing calibration curve for : STDLOW

Sn	189.989	5.9000	0.00000	7.0000	-1.1000
		5.9000	0.00000	8.2000	-2.3000
		7.2000	0.00000	8.2000	-1.0000
Tl	190.864	11.900	10.880	0.00000	1.0200
		11.840	10.780	0.00000	1.0600
		10.180	11.000	0.00000	-0.82000
Tl	190.883	10.300	11.740	0.00000	-1.4400
		10.280	10.860	0.00000	-0.58000
		11.640	11.340	0.00000	0.30000
As	193.759	13.680	14.480	13.480	-0.58571
		13.420	12.660	14.520	0.36143
		15.360	13.900	14.780	1.2714
Se	196.090	5.0000	0.00000	5.1800	-0.18000
		4.3800	0.00000	5.4000	-1.0200
		5.3600	0.00000	5.0800	0.28000
Mo	202.030	2.4000	2.6000	0.00000	-0.20000
		2.5000	2.5000	0.00000	0.00000
		2.6000	2.6000	0.00000	0.00000
Se	203.985	12.160	0.00000	11.700	0.46000
		12.600	0.00000	12.080	0.52000
		11.880	0.00000	11.300	0.58000
Cr	205.552	1.6000	0.00000	1.8000	-0.20000
		1.9000	0.00000	1.7000	0.20000
		2.0000	0.00000	1.8000	0.20000
Sb	206.833	14.960	0.00000	14.680	0.28000
		14.640	0.00000	15.200	-0.56000
		15.960	0.00000	13.920	2.0400
Zn	213.856	2.0000	0.00000	1.4000	0.60000
		1.8000	0.00000	1.3000	0.50000
		2.0000	0.00000	1.4000	0.60000
Sb	217.581	18.180	0.00000	17.520	0.66000
		18.440	0.00000	17.840	0.60000
		19.060	0.00000	17.900	1.1600
Pb	220.353	22.460	22.120	21.400	0.76353
		20.920	20.140	22.900	-0.84353
		20.820	21.480	21.840	-0.87176
Co	228.616	4.0000	0.00000	3.7000	0.30000
		3.9000	0.00000	4.0000	-0.10000
		4.0000	0.00000	3.8000	0.20000
Cd	228.802	2.0000	0.00000	1.9000	0.10000
		1.9000	0.00000	1.9000	0.00000
		1.8000	0.00000	1.8000	0.00000
Ni	231.604	5.3000	0.00000	5.0000	0.30000
		5.6000	0.00000	5.7000	-0.10000
		5.3000	0.00000	5.6000	-0.30000
Be	234.861	7.0000	0.00000	7.0000	0.00000
		7.0000	0.00000	7.0000	0.00000
		7.0000	0.00000	7.0000	0.00000
B	249.678	17.100	0.00000	10.400	6.7000
		18.500	0.00000	10.600	7.9000
		17.000	0.00000	11.400	5.6000
Mn	257.610	11.000	0.00000	10.000	1.0000
		11.000	0.00000	9.0000	2.0000
		11.000	0.00000	10.000	1.0000
Fe	259.940	3.2000	0.00000	2.7000	0.50000
		3.2000	0.00000	3.0000	0.20000
		3.2000	0.00000	2.8000	0.40000
Fe	271.441	2.1000	1.9000	0.00000	0.20000

Mg	279.553	11.000	0.00000	6.0000	5.0000
		11.000	0.00000	6.0000	5.0000
		11.000	0.00000	6.0000	5.0000
V	292.402	5.3000	6.0000	0.00000	-0.70000
		5.3000	6.0000	0.00000	-0.70000
		5.9000	6.0000	0.00000	-0.10000
Al	308.215	2.1000	2.2000	0.00000	-0.10000
		1.9000	1.9000	0.00000	0.00000
		2.2000	2.2000	0.00000	0.00000
Ca	315.887	38.000	0.00000	40.600	-2.6000
		37.900	0.00000	41.600	-3.7000
		37.300	0.00000	40.700	-3.4000
Cu	324.754	104.00	0.00000	92.000	12.000
		103.00	0.00000	98.000	5.0000
		102.00	0.00000	96.000	6.0000
Ag	328.068	160.90	0.00000	157.40	3.5000
		163.90	0.00000	159.20	4.7000
		160.70	0.00000	154.10	6.6000
Ti	334.941	55.000	0.00000	47.000	8.0000
		52.000	0.00000	50.000	2.0000
		53.000	0.00000	50.000	3.0000
Y	371.030	390.00	0.00000	400.00	-10.000
		380.00	0.00000	410.00	-30.000
		400.00	0.00000	390.00	10.000
Mg	383.826	281.00	295.00	0.00000	-14.000
		278.00	292.00	0.00000	-14.000
		274.00	285.00	0.00000	-11.000
Ca	393.366	560.00	0.00000	110.00	450.00
		550.00	0.00000	110.00	440.00
		540.00	0.00000	110.00	430.00
Al	396.152	64.500	0.00000	63.400	1.1000
		65.900	0.00000	63.300	2.6000
		65.900	0.00000	62.600	3.3000
Sr	421.552	200.00	180.00	0.00000	20.000
		200.00	190.00	0.00000	10.000
		190.00	180.00	0.00000	10.000
Zn	481.053	96.600	0.00000	99.100	-2.5000
		99.900	0.00000	93.000	6.9000
		98.700	0.00000	97.400	1.3000
Ba	493.409	320.00	330.00	0.00000	-10.000
		330.00	320.00	0.00000	10.000
		310.00	320.00	0.00000	-10.000
Na	588.995	75.000	95.000	0.00000	-20.000
		76.000	100.00	0.00000	-24.000
		74.000	106.00	0.00000	-32.000
Li	670.784	15.500	0.00000	14.600	0.90000
		15.400	0.00000	14.800	0.60000
		15.500	0.00000	14.600	0.90000
K	766.490	26.100	0.00000	24.600	1.5000
		26.000	0.00000	26.100	-0.10000
		26.300	0.00000	25.700	0.60000
K	769.896	48.200	0.00000	46.400	1.8000
		48.100	0.00000	49.100	-1.0000
		49.200	0.00000	49.400	-0.20000

-----10:06:30 7/ 7/99 -----

Results for STDLOW # Measures :3 (R)

EL	SIGNAL/sigma		EL	SIGNAL/sigma		EL	SIGNAL/sigma		EL	SIGNAL/sigma	
Sn	-1.4667/	49%	Tl	0.42000/	260%	Tl	-0.57333/	150%	As	0.34905/	270%
Se	-0.30667/	220%	Mo	-0.06667/	170%	Se	0.52000/	12%	Cr	0.06667/	350%

Co	0.13333/	160%	Cd	0.03333/	170%	Ni	-0.03333/	920%	Be	0.00000/	0.00%
B	6.7333/	17%	Mn	1.3333/	43%	Fe	0.36667/	42%	Fe	0.03333/	620%
Mg	5.0000/	0.00%	V	-0.50000/	69%	Al	-0.03333/	170%	Ca	-3.2333/	18%
Cu	7.6667/	49%	Ag	4.9333/	32%	Ti	4.3333/	74%	Y	-10.000/	200%
Mg	-13.000/	13%	Ca	440.00/	2.3%	Al	2.3333/	48%	Sr	13.333/	43%
Zn	1.9000/	250%	Ba	-3.3333/	350%	Na	-25.333/	24%	Li	0.80000/	22%
K	0.66667/	120%	K	0.20000/	720%						

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009864nm #Steps = 21.91

Printing calibration curve for : STDT1

Sn	189.989	348.40	0.00000	5.6000	342.80
		346.70	0.00000	6.8000	339.90
		341.10	0.00000	7.3000	333.80
As	193.759	427.80	15.660	15.180	412.24
		437.52	15.960	14.700	421.83
		435.34	15.740	14.340	419.90
Mo	202.030	445.90	3.0000	0.00000	442.90
		458.80	3.1000	0.00000	455.70
		456.30	3.6000	0.00000	452.70
Cr	205.552	458.80	0.00000	2.1000	456.70
		476.00	0.00000	2.1000	473.90
		459.50	0.00000	1.8000	457.70
Pb	220.353	597.72	23.740	24.400	573.59
		589.18	23.340	24.940	564.90
		588.80	22.800	23.960	565.32
Co	228.616	837.70	0.00000	6.9000	830.80
		836.00	0.00000	6.9000	829.10
		820.40	0.00000	6.8000	813.60
Mg	279.553	10928	0.00000	10.000	10918
		10724	0.00000	10.000	10714
		10819	0.00000	11.000	10808
Ag	328.068	1441.1	0.00000	169.40	1271.7
		1480.8	0.00000	164.60	1316.2
		1454.4	0.00000	166.10	1288.3
Y	371.030	136470	0.00000	510.00	135960
		135860	0.00000	500.00	135360
		134850	0.00000	500.00	134350
Mg	383.826	3482.0	297.00	0.00000	3185.0
		3536.0	302.00	0.00000	3234.0
		3566.0	303.00	0.00000	3263.0
Sr	421.552	165750	990.00	0.00000	164760
		169950	1070.0	0.00000	168880
		172450	1080.0	0.00000	171370
Na	588.995	25631	227.00	0.00000	25404
		24893	225.00	0.00000	24668
		25735	231.00	0.00000	25504
Li	670.784	5393.7	0.00000	33.200	5360.5
		5201.5	0.00000	34.000	5167.5
		5397.6	0.00000	33.400	5364.2

-----10:14:30 7/ 7/99 -----

Results for STDT1 # Measures :3 (R)

EL	SIGNAL/sigma	EL	SIGNAL/sigma	EL	SIGNAL/sigma	EL	SIGNAL/sigma

Pb	567.94/	0.86%	Co	824.50/	1.1%	Mg	10813/	0.94%	Ag	1292.1/	1.7%
Y	135220/	0.60%	Sr	168340/	2.0%	Na	25192/	1.8%	Li	5297.4/	2.1%

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009849nm #Steps = 21.88

Printing calibration curve for : STDT4

Tl	190.864	324.30	12.040	0.00000	312.26
		319.02	10.840	0.00000	308.18
		315.02	11.620	0.00000	303.40
Tl	190.883	165.76	11.760	0.00000	154.00
		163.84	11.300	0.00000	152.54
		162.46	10.600	0.00000	151.86
Se	196.090	143.64	0.00000	5.1400	138.50
		142.34	0.00000	5.1400	137.20
		142.92	0.00000	5.6200	137.30
Se	203.985	159.04	0.00000	12.380	146.66
		156.46	0.00000	12.940	143.52
		157.36	0.00000	12.140	145.22

-----10:19:02 7/ 7/99 -----

Results for STDT4 # Measures :3 (R)

EL	SIGNAL/sigma		EL	SIGNAL/sigma		EL	SIGNAL/sigma		EL	SIGNAL/sigma	
Tl	307.95/	1.4%	Tl	152.80/	0.72%	Se	137.67/	0.53%	Se	145.13/	1.1%

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010387nm #Steps = 23.08

Printing calibration curve for : STDT5

Sb	206.833	645.28	0.00000	15.520	629.76
		637.40	0.00000	16.180	621.22
		636.48	0.00000	13.960	622.52
Sb	217.581	671.78	0.00000	18.100	653.68
		670.72	0.00000	17.120	653.60
		681.34	0.00000	18.360	662.98

-----10:21:31 7/ 7/99 -----

Results for STDT5 # Measures :3 (R)

EL	SIGNAL/sigma		EL	SIGNAL/sigma	
Sb	624.50/	0.74%	Sb	656.75/	0.82%

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010158nm #Steps = 22.57

Printing calibration curve for : STDT2

Zn	213.856	537.20	0.00000	1.8000	535.40
		535.60	0.00000	1.5000	534.10
		528.00	0.00000	1.6000	526.40
Cd	228.802	542.00	0.00000	2.9000	539.10
		525.60	0.00000	3.1000	522.50

		669.60	0.00000	5.7000	663.90
		663.70	0.00000	6.0000	657.70
Be	234.861	9911.0	0.00000	9.0000	9902.0
		10132	0.00000	10.000	10122
		9935.0	0.00000	9.0000	9926.0
B	249.678	4684.9	0.00000	11.800	4673.1
		4648.2	0.00000	12.700	4635.5
		4596.4	0.00000	12.500	4583.9
Mn	257.610	9300.0	0.00000	18.000	9282.0
		9196.0	0.00000	19.000	9177.0
		9341.0	0.00000	20.000	9321.0
V	292.402	1592.1	10.700	0.00000	1581.4
		1539.2	10.500	0.00000	1528.7
		1563.1	11.000	0.00000	1552.1
Ca	315.887	675.20	0.00000	45.100	630.10
		669.50	0.00000	44.200	625.30
		675.10	0.00000	44.100	631.00
Cu	324.754	12886	0.00000	115.00	12771
		12649	0.00000	114.00	12535
		13581	0.00000	115.00	13466
Ca	393.366	145250	0.00000	200.00	145050
		149380	0.00000	190.00	149190
		144060	0.00000	190.00	143870
Zn	481.053	278.60	0.00000	101.20	177.40
		282.10	0.00000	99.100	183.00
		284.80	0.00000	101.20	183.60
K	766.490	3553.8	0.00000	37.100	3516.7
		3518.4	0.00000	37.800	3480.6
		3503.3	0.00000	34.700	3468.6
K	769.896	3894.0	0.00000	51.700	3842.3
		3715.3	0.00000	60.700	3654.6
		3764.5	0.00000	54.300	3710.2

-----10:24:27 7/ 7/99 -----

Results for STDT2 # Measures :3 (R)

EL	SIGNAL/sigma	EL	SIGNAL/sigma	EL	SIGNAL/sigma	EL	SIGNAL/sigma
Zn	531.97/ 0.91%	Cd	533.40/ 1.8%	Ni	662.93/ 0.73%	Be	9983.3/ 1.2%
B	4630.8/ 0.97%	Mn	9260.0/ 0.80%	V	1554.1/ 1.7%	Cu	12924/ 3.7%
Ca	146040/ 1.9%	K	3488.6/ 0.72%	K	3735.7/ 2.6%		

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010199nm #Steps = 22.66

Printing calibration curve for : STDT3

Fe	259.940	861.80	0.00000	6.2000	855.60
		845.60	0.00000	6.0000	839.60
		891.50	0.00000	5.7000	885.80
Fe	271.441	19.300	2.1000	0.00000	17.200
		19.200	2.1000	0.00000	17.100
		19.200	2.2000	0.00000	17.000
Mg	279.553	51047	0.00000	27.000	51020
		51775	0.00000	27.000	51748
		51418	0.00000	27.000	51391
Al	308.215	40.200	2.4000	0.00000	37.800
		40.000	2.4000	0.00000	37.600
		40.300	2.3000	0.00000	38.000
Ti	334.941	12302	0.00000	78.000	12224
		12335	0.00000	75.000	12260
		12259	0.00000	79.000	12180

```
                 16859  332.00 0.00000   16527
Al    396.152  1550.2 0.00000  69.500  1480.7
               1612.2 0.00000  65.700  1546.5
               1573.8 0.00000  66.500  1507.3
Ba    493.409  183140  450.00 0.00000  182690
               180330  450.00 0.00000  179880
               192440  440.00 0.00000  192000

-----10:28:26  7/ 7/99 -----

Results for STDT3  # Measures :3 (R)

EL  SIGNAL/sigma   EL  SIGNAL/sigma   EL  SIGNAL/sigma   EL  SIGNAL/sigma

Fe   860.33/  2.7% Ti    12221/ 0.33% Mg    16334/  3.0% Al   1511.5/  2.2%

Ba   184860/  3.4%

Ref. 193.031nm (calc: 193.034743nm)  Offset =  0.010275nm  #Steps =   22.83

Printing calibration curve for : STDALFE

Fe    259.940   30913 0.00000  20.000   30893
                31001 0.00000  21.000   30980
                31956 0.00000  21.000   31935
Fe    271.441  688.90  2.4000 0.00000  686.50
               689.80  2.4000 0.00000  687.40
               692.60  2.5000 0.00000  690.10
Al    308.215  1375.7  4.8000 0.00000  1370.9
               1365.8  4.4000 0.00000  1361.4
               1378.9  4.1000 0.00000  1374.8
Al    396.152   62237 0.00000  167.00   62070
                61909 0.00000  165.00   61744
                60540 0.00000  170.00   60370

-----10:32:26  7/ 7/99 -----

Results for STDALFE  # Measures :3 (R)

EL  SIGNAL/sigma   EL  SIGNAL/sigma   EL  SIGNAL/sigma   EL  SIGNAL/sigma

Fe   688.00/ 0.27% Al   1369.0/ 0.50%

Ref. 193.031nm (calc: 193.034743nm)  Offset =  0.010244nm  #Steps =   22.76

Printing calibration curve for : STDCAZN

Zn    213.856   16322 0.00000  17.000   16305
                16402 0.00000  17.000   16385
                16482 0.00000  16.000   16466
Ca    315.887   25951 0.00000  98.000   25853
                25762 0.00000  98.000   25664
                26321 0.00000  98.000   26223
Ca    393.366+o****** 0.00000  2710.0+o******>
            +o****** 0.00000  2790.0+o******>
            +o****** 0.00000  2980.0+o******>
Zn    481.053  7683.5 0.00000  110.50  7573.0
               7624.6 0.00000  116.60  7508.0
               7518.4 0.00000  113.20  7405.2

-----10:35:33  7/ 7/99 -----

Results for STDCAZN  # Measures :3 (R)
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Ca 25913/ 1.1% Zn 7495.4/ 1.1%

Intensities for Recalibration:

El	Wave	LOW		HI	
Sn	189.989	STDLOW:	-1.4667	STDT1:	338.8333
Tl	190.864	STDLOW:	0.4200	STDT4:	307.9467
Tl	190.883	STDLOW:	-0.5733	STDT4 :	152.8000
As	193.759	STDLOW:	0.3490	STDT1 :	417.9910
Se	196.090	STDLOW:	-0.3067	STDT4:	137.6667
Mo	202.030	STDLOW:	-0.0667	STDT1:	450.4333
Se	203.985	STDLOW:	0.5200	STDT4:	145.1333
Cr	205.552	STDLOW:	0.0667	STDT1 :	462.7667
Sb	206.833	STDLOW:	0.5867	STDT5:	624.5000
Zn	213.856	STDLOW:	0.5667	STDT2:	531.9667
Sb	217.581	STDLOW:	0.8067	STDT5:	656.7533
Pb	220.353	STDLOW:	-0.3173	STDT1:	567.9361
Co	228.616	STDLOW:	0.1333	STDT1 :	824.5000
Cd	228.802	STDLOW:	0.0333	STDT2 :	533.4000
Ni	231.604	STDLOW:	-0.0333	STDT2:	662.9333
Be	234.861	STDLOW:	0.0000	STDT2 :	9983.3333
B	249.678	STDLOW:	6.7333	STDT2 :	4630.8333
Mn	257.610	STDLOW:	1.3333	STDT2 :	9260.0000
Fe	259.940	STDLOW:	0.3667	STDT3 :	860.3333
Fe	271.441	STDLOW:	0.0333	STDALFE:	688.0000
Mg	279.553	STDLOW:	5.0000	STDT1 :	10813.3333
V	292.402	STDLOW:	-0.5000	STDT2:	1554.0667
Al	308.215	STDLOW:	-0.0333	STDALFE:	1369.0333
Ca	315.887	STDLOW:	-3.2333	STDCAZN:	25913.3333
Cu	324.754	STDLOW:	7.6667	STDT2 :	12924.0000
Ag	328.068	STDLOW:	4.9333	STDT1 :	1292.0667
Ti	334.941	STDLOW:	4.3333	STDT3:	12221.3333
Y	371.030	STDLOW:	-10.0000	STDT1:	135223.3333
Mg	383.826	STDLOW:	-13.0000	STDT3 :	16334.0000
Ca	393.366	STDLOW:	440.0000	STDT2 :	146036.6667
Al	396.152	STDLOW:	2.3333	STDT3 :	1511.5000
Sr	421.552	STDLOW:	13.3333	STDT1:	168336.6667
Zn	481.053	STDLOW:	1.9000	STDCAZN:	7495.4000
Ba	493.409	STDLOW:	-3.3333	STDT3 :	184856.6667
Na	588.995	STDLOW:	-25.3333	STDT1 :	25192.0000
Li	670.784	STDLOW:	0.8000	STDT1 :	5297.4000
K	766.490	STDLOW:	0.6667	STDT2 :	3488.6333
K	769.896	STDLOW:	0.2000	STDT2 :	3735.7000

ISA-JY

CALIBRATION RESULTS

Analytical Method : JYSED5

Elt	Wavelength	Intercept	Slope	2nd Order	SD
Sn	189.9890	0.043099	0.029386	0.000000	0.000000
Tl	190.8640	-0.013657	0.032518	0.000000	0.000000
Tl	190.8830	0.037382	0.065200	0.000000	0.000000
As	193.7590	-0.008358	0.023944	0.000000	0.000000
Se	196.0900	0.022227	0.072478	0.000000	0.000000
Mo	202.0300	0.001480	0.022198	0.000000	0.000000
Se	203.9850	-0.035958	0.069150	0.000000	0.000000
Cr	205.5520	-0.001441	0.021612	0.000000	0.000000
Sb	206.8330	-0.009403	0.016028	0.000000	0.000000
Zn	213.8560	-0.010664	0.018818	0.000000	0.000000
Sb	217.5810	-0.012298	0.015245	0.000000	0.000000
Pb	220.3530	0.005583	0.017598	0.000000	0.000000
Co	228.6160	-0.001617	0.012131	0.000000	0.000000
Cd	228.8020	-0.000625	0.018749	0.000000	0.000000
Ni	231.6040	0.000503	0.015084	0.000000	0.000000

F8
Help

[any key]

ISA-JY

CALIBRATION RESULTS

Analytical Method : JYSED5

Elt	Wavelength	Intercept	Slope	2nd Order	SD
Be	234.8610	0.000000	0.001002	0.000000	0.000000
B	249.6780	-0.014561	0.002163	0.000000	0.000000
Mn	257.6100	-0.001440	0.001080	0.000000	0.000000
Fe	259.9400	-0.004264	0.011628	0.000000	0.000000
Fe	271.4410	-0.019381	0.581424	0.000000	0.000000
Mg	279.5530	-0.004626	0.000925	0.000000	0.000000
V	292.4020	0.003216	0.006433	0.000000	0.000000
Al	308.2150	0.009739	0.292170	0.000000	0.000000
Ca	315.8870	0.049904	0.015434	0.000000	0.000000
Cu	324.7540	-0.005936	0.000774	0.000000	0.000000
Ag	328.0680	-0.003833	0.000777	0.000000	0.000000
Ti	334.9410	-0.003547	0.000819	0.000000	0.000000
Y	371.0300	0.000739	0.000074	0.000000	0.000000
Mg	383.8260	0.039763	0.003059	0.000000	0.000000
Ca	393.3660	-0.030220	0.000069	0.000000	0.000000

F8
Help

[any key]

ISA-JY

CALIBRATION RESULTS

Analytical Method : JYSED5

Elt	Wavelength	Intercept	Slope	2nd Order	SD
Al	396.1520	-0.015461	0.006626	0.000000	0.000000
Sr	421.5520	-0.000792	0.000059	0.000000	0.000000
Zn	481.0530	-0.101421	0.053380	0.000000	0.000000

Li	670.7840	-0.001510	0.001888	0.000000	0.000000
K	766.4900	-0.019113	0.028670	0.000000	0.000000
K	769.8960	-0.005354	0.026770	0.000000	0.000000

F8	F9	F3
Help	Print	Display Results

33 sample(s) in file : RUN1111 with autosampler - Random Access 10:39:05 7/ 7/99

Num	Pos.	Rec.	Name	Name 2	Seq.	Ty.	Weight	Volume	Dil. Fac.	An	Tr.	V	Method	Elements
1	1	1	INSTR BLK 1		1		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
2	2	1	SED5 AQC 1		2		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
3	3	1	HIGH AQC 1		3		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
4	4	1	WASH		4		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
5	5	1	DIGEST BLK1	RUN 1111	5		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
6	6	1	LCS 0287	RUN 1111	6		0.50650	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
7	7	1	99IE19S01	990086	7		0.50040	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
8	8	1	99IE19S01 D	990086	8		0.52810	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
9	9	1	99IE19S01 S	990086	9		0.50050	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
10	10	1	99IE19S02	990086	10		0.52020	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
11	11	1	99IE19S03	990086	11		0.52590	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
12	12	1	99IE19D03	990086	12		0.50080	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
13	13	1	99IE19S04	990086	13		0.53230	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
14	14	1	99IE19S05	990086	14		0.51230	100.00	1.00	A		Y		Li Be B Na Mg Al K Ca
														Ti V Cr Mn Fe Co Ni Cu
														Zn As Se Sr Y Mo Ag Cd
														Sn Sb Ba Tl Pb
15	15	1	WASH		15		0.00000	1.00	1.00	A		Y		Li Be B Na Mg Al K Ca

													Sn Sb Ba Tl Pb
16	16	1	INSTR BLK 2		16		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
17	17	1	SED5 AQC 2		17		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
18	18	1	HIGH AQC 2		18		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
19	19	1	WASH		19		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
20	20	1	DIGEST BLK2	RUN 1111	20		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
21	21	1	99IE19S06	990086	21		0.51370	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
22	22	1	99IE19S07	990086	22		0.51790	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
23	23	1	99IE19S08	990086	23		0.50150	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
24	24	1	99IE19S09	990086	24		0.52120	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
25	25	1	99IE19S10	990086	25		0.50670	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
26	26	1	99IE19S11	990086	26		0.52370	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
27	27	1	99IE19S11 D	990086	27		0.53310	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
28	28	1	99IE19S11 S	990086	28		0.50630	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
29	29	1	99IE19S12	990086	29		0.50640	100.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
30	30	1	WASH		30		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd
													Sn Sb Ba Tl Pb
31	31	1	INSTR BLK 3		31		0.00000	1.00	1.00	A		Y	Li Be B Na Mg Al K Ca
													Ti V Cr Mn Fe Co Ni Cu
													Zn As Se Sr Y Mo Ag Cd

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   I    I    I           I           I       I    I        I        I        I  I     I   I        Ti V  Cr Mn Fe Co Ni Cu
   I    I    I           I           I       I    I        I        I        I  I     I   I        Zn As Se Sr Y  Mo Ag Cd
   I    I    I           I           I       I    I        I        I        I  I     I   I        Sn Sb Ba Tl Pb
33 I 33 I  1 I HIGH AQC 3 I           I    33 I    I 0.00000 I    1.00 I    1.00 IA I     I Y I      Li Be B  Na Mg Al K  Ca
   I    I    I           I           I       I    I        I        I        I  I     I   I        Ti V  Cr Mn Fe Co Ni Cu
   I    I    I           I           I       I    I        I        I        I  I     I   I        Zn As Se Sr Y  Mo Ag Cd
   I    I    I           I           I       I    I        I        I        I  I     I   I        Sn Sb Ba Tl Pb
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RUN 1111a 7-JUL-99

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009853nm #Steps = 21.89

Measurements for INSTR BLK 1- - 1

Sn	189.989	7.5000	0.00000	8.7000	-1.2000	-1.2000	0.00784	mg/
		5.9000	0.00000	8.3000	-2.4000	-2.4000	-0.02743	mg/
		7.1000	0.00000	6.1000	1.0000	1.0000	0.07249	mg/
Tl	190.864	11.780	12.800	0.00000	-1.0200	-1.0200	-0.04683	mg/
		12.180	10.780	0.00000	1.4000	1.4000	0.03187	mg/
		12.220	11.720	0.00000	0.50000	0.50000	0.00260	mg/
Tl	190.883	11.900	10.880	0.00000	1.0200	1.0200	0.10389	mg/
		10.800	9.8400	0.00000	0.96000	0.96000	0.09997	mg/
		10.960	10.680	0.00000	0.28000	0.28000	0.05564	mg/
As	193.759	14.940	13.920	14.400	0.91714	0.91714	0.01360	mg/
		14.160	13.140	14.220	0.78857	0.78857	0.01052	mg/
		13.360	13.540	15.220	-0.54000	-0.54000	-0.02129	mg/
Se	196.090	5.3000	0.00000	5.7800	-0.48000	-0.48000	-0.01256	mg/
		5.8200	0.00000	5.7200	0.10000	0.10000	0.02947	mg/
		5.4000	0.00000	5.5000	-0.10000	-0.10000	0.01498	mg/
Mo	202.030	2.5000	2.4000	0.00000	0.10000	0.10000	0.00370	mg/
		2.8000	2.9000	0.00000	-0.10000	-0.10000	-0.00074	mg/
		2.6000	2.5000	0.00000	0.10000	0.10000	0.00370	mg/
Se	203.985	12.600	0.00000	11.920	0.68000	0.68000	0.01106	mg/
		12.040	0.00000	13.520	-1.4800	-1.4800	-0.13830	mg/
		11.280	0.00000	11.800	-0.52000	-0.52000	-0.07192	mg/
Cr	205.552	2.1000	0.00000	2.0000	0.10000	0.10000	0.00072	mg/
		2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00360	mg/
		1.8000	0.00000	1.9000	-0.10000	-0.10000	-0.00360	mg/
Sb	206.833	14.700	0.00000	15.920	-1.2200	-1.2200	-0.02896	mg/
		15.500	0.00000	17.040	-1.5400	-1.5400	-0.03409	mg/
		15.520	0.00000	14.960	0.56000	0.56000	-0.00043	mg/
Zn	213.856	4.0000	0.00000	1.4000	2.6000	2.6000	0.03826	mg/
		3.9000	0.00000	1.5000	2.4000	2.4000	0.03450	mg/
		3.7000	0.00000	1.5000	2.2000	2.2000	0.03074	mg/
Sb	217.581	18.880	0.00000	19.400	-0.52000	-0.52000	-0.02023	mg/
		19.600	0.00000	19.760	-0.16000	-0.16000	-0.01474	mg/
		18.620	0.00000	19.000	-0.38000	-0.38000	-0.01809	mg/
Pb	220.353	22.220	22.260	22.380	-0.11059	-0.11059	0.00364	mg/
		22.800	23.380	21.640	0.44353	0.44353	0.01339	mg/
		21.860	23.100	22.440	-0.85176	-0.85176	-0.00941	mg/
Co	228.616	4.2000	0.00000	4.6000	-0.40000	-0.40000	-0.00647	mg/
		4.3000	0.00000	4.4000	-0.10000	-0.10000	-0.00283	mg/
		4.3000	0.00000	4.0000	0.30000	0.30000	0.00202	mg/
Cd	228.802	2.1000	0.00000	2.1000	0.00000	0.00000	-0.00062	mg/
		2.1000	0.00000	2.1000	0.00000	0.00000	-0.00062	mg/
		2.0000	0.00000	2.0000	0.00000	0.00000	-0.00062	mg/
Ni	231.604	5.9000	0.00000	5.8000	0.10000	0.10000	0.00201	mg/
		6.2000	0.00000	6.0000	0.20000	0.20000	0.00352	mg/
		6.4000	0.00000	5.7000	0.70000	0.70000	0.01106	mg/
Be	234.861	9.0000	0.00000	9.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	9.0000	-1.0000	-1.0000	-0.00100	mg/
		9.0000	0.00000	8.0000	1.0000	1.0000	0.00100	mg/
B	249.678	16.200	0.00000	11.300	4.9000	4.9000	-0.00396	mg/
		15.900	0.00000	10.700	5.2000	5.2000	-0.00332	mg/
		15.500	0.00000	10.200	5.3000	5.3000	-0.00310	mg/
Mn	257.610	11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
Fe	259.940	3.0000	0.00000	2.7000	0.30000	0.30000	-0.00078	mg/
		3.2000	0.00000	3.0000	0.20000	0.20000	-0.00194	mg/
		3.4000	0.00000	3.0000	0.40000	0.40000	0.00039	mg/
Fe	271.441	2.1000	2.0000	0.00000	0.10000	0.10000	0.03876	mg/

Mg	279.553	12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
		11.000	0.00000	6.0000	5.0000	5.0000	0.00000	mg/
		11.000	0.00000	6.0000	5.0000	5.0000	0.00000	mg/
V	292.402	6.5000	6.4000	0.00000	0.10000	0.10000	0.00386	mg/
		7.0000	6.0000	0.00000	1.0000	1.0000	0.00965	mg/
		6.0000	6.1000	0.00000	-0.10000	-0.10000	0.00257	mg/
Al	308.215	1.7000	2.5000	0.00000	-0.80000	-0.80000	-0.22400	mg/
		1.9000	2.3000	0.00000	-0.40000	-0.40000	-0.10713	mg/
		1.8000	2.0000	0.00000	-0.20000	-0.20000	-0.04869	mg/
Ca	315.887	38.500	0.00000	42.600	-4.1000	-4.1000	-0.01338	mg/
		38.700	0.00000	42.900	-4.2000	-4.2000	-0.01492	mg/
		38.800	0.00000	42.400	-3.6000	-3.6000	-0.00566	mg/
Cu	324.754	108.00	0.00000	95.000	13.000	13.000	0.00413	mg/
		107.00	0.00000	100.00	7.0000	7.0000	-0.00052	mg/
		103.00	0.00000	98.000	5.0000	5.0000	-0.00206	mg/
Ag	328.068	162.70	0.00000	159.50	3.2000	3.2000	-0.00135	mg/
		161.90	0.00000	165.90	-4.0000	-4.0000	-0.00694	mg/
		166.50	0.00000	160.90	5.6000	5.6000	0.00052	mg/
Ti	334.941	56.000	0.00000	51.000	5.0000	5.0000	0.00055	mg/
		54.000	0.00000	52.000	2.0000	2.0000	-0.00191	mg/
		54.000	0.00000	52.000	2.0000	2.0000	-0.00191	mg/
Y	371.030	390.00	0.00000	410.00	-20.000	-20.000	-0.00074	mg/
		410.00	0.00000	410.00	0.00000	0.00000	0.00074	mg/
		410.00	0.00000	420.00	-10.000	-10.000	0.00000	mg/
Mg	383.826	286.00	291.00	0.00000	-5.0000	-5.0000	0.02447	mg/
		285.00	300.00	0.00000	-15.000	-15.000	-0.00612	mg/
		285.00	298.00	0.00000	-13.000	-13.000	0.00000	mg/
Ca	393.366	630.00	0.00000	120.00	510.00	510.00	0.00481	mg/
		630.00	0.00000	120.00	510.00	510.00	0.00481	mg/
		630.00	0.00000	120.00	510.00	510.00	0.00481	mg/
Al	396.152	68.300	0.00000	64.600	3.7000	3.7000	0.00906	mg/
		69.800	0.00000	64.400	5.4000	5.4000	0.02032	mg/
		67.400	0.00000	65.400	2.0000	2.0000	-0.00221	mg/
Sr	421.552	210.00	190.00	0.00000	20.000	20.000	0.00040	mg/
		200.00	190.00	0.00000	10.000	10.000	-0.00020	mg/
		200.00	190.00	0.00000	10.000	10.000	-0.00020	mg/
Zn	481.053	100.80	0.00000	98.700	2.1000	2.1000	0.01068	mg/
		102.50	0.00000	100.80	1.7000	1.7000	-0.01068	mg/
		104.30	0.00000	97.600	6.7000	6.7000	0.25622	mg/
Ba	493.409	340.00	340.00	0.00000	0.00000	0.00000	0.00018	mg/
		330.00	330.00	0.00000	0.00000	0.00000	0.00018	mg/
		330.00	340.00	0.00000	-10.000	-10.000	-0.00036	mg/
Na	588.995	76.000	106.00	0.00000	-30.000	-30.000	-0.01851	mg/
		75.000	106.00	0.00000	-31.000	-31.000	-0.02247	mg/
		77.000	104.00	0.00000	-27.000	-27.000	-0.00661	mg/
Li	670.784	16.200	0.00000	14.500	1.7000	1.7000	0.00170	mg/
		16.200	0.00000	15.000	1.2000	1.2000	0.00076	mg/
		15.700	0.00000	13.900	1.8000	1.8000	0.00189	mg/
K	766.490	26.000	0.00000	25.900	0.10000	0.10000	-0.01625	mg/
		25.900	0.00000	24.900	1.0000	1.0000	0.00956	mg/
		26.300	0.00000	28.100	-1.8000	-1.8000	-0.07072	mg/
K	769.896	50.900	0.00000	42.000	8.9000	8.9000	0.23290	mg/
		49.700	0.00000	47.700	2.0000	2.0000	0.04819	mg/
		48.500	0.00000	46.500	2.0000	2.0000	0.04819	mg/

----- 10:42:28 7/ 7/99 ----- Method: JYSED5

Sample INSTR BLK 1- - 1

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.01763 mg/L	0.05067	290
Tl	190.864	-0.00412 mg/L	0.03977	970

Se	196.090	0.01063	mg/L	0.02135	200
Mo	202.030	0.00222	mg/L	0.00256	120
Se	203.985	-0.06638	mg/L	0.07484	110
Cr	205.552	-0.00216	mg/L	0.00250	120
Sb	206.833	-0.02116	mg/L	0.01813	86
Zn	213.856	0.03450	mg/L	0.00376	11
Sb	217.581	-0.01768	mg/L	0.00277	16
Pb	220.353	0.00254	mg/L	0.01144	450
Co	228.616	-0.00243	mg/L	0.00426	180
Cd	228.802	-0.00062	mg/L	0.00000	0.00
Ni	231.604	0.00553	mg/L	0.00485	88
Be	234.861	0.00000	mg/L	0.00100	+o***
B	249.678	-0.00346	mg/L	0.00045	13
Mn	257.610	-0.00036	mg/L	0.00000	0.00
Fe	259.940	-0.00078	mg/L	0.00116	150
Fe	271.441	0.05814	mg/L	0.03357	58
Mg	279.553	0.00031	mg/L	0.00053	170
V	292.402	0.00536	mg/L	0.00377	70
Al	308.215	-0.12661	mg/L	0.08926	70
Ca	315.887	-0.01132	mg/L	0.00496	44
Cu	324.754	0.00052	mg/L	0.00322	620
Ag	328.068	-0.00259	mg/L	0.00388	150
Ti	334.941	-0.00109	mg/L	0.00142	130
Y	371.030	0.00000	mg/L	0.00074	+o***
Mg	383.826	0.00612	mg/L	0.01618	270
Ca	393.366	0.00481	mg/L	0.00000	0.00
Al	396.152	0.00906	mg/L	0.01126	120
Sr	421.552	0.00000	mg/L	0.00034	+o***
Zn	481.053	0.08541	mg/L	0.14831	170
Ba	493.409	0.00000	mg/L	0.00031	+o***
Na	588.995	-0.01586	mg/L	0.00825	52
Li	670.784	0.00145	mg/L	0.00061	42
K	766.490	-0.02580	mg/L	0.04098	160
K	769.896	0.10976	mg/L	0.10664	97

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009852nm #Steps = 21.89

Measurements for SED5 AQC 1- - 2

Sn	189.989	180.30	0.00000	7.3000	173.00	173.00	5.1268	mg/
		172.30	0.00000	7.0000	165.30	165.30	4.9006	mg/
		181.60	0.00000	7.2000	174.40	174.40	5.1680	mg/
Tl	190.864	160.60	12.860	0.00000	147.74	147.74	4.7905	mg/
		162.72	11.100	0.00000	151.62	151.62	4.9166	mg/
		161.36	10.760	0.00000	150.60	150.60	4.8835	mg/
Tl	190.883	85.720	11.520	0.00000	74.200	74.200	4.8752	mg/
		85.680	12.060	0.00000	73.620	73.620	4.8374	mg/
		91.460	10.500	0.00000	80.960	80.960	5.3160	mg/
As	193.759	234.06	22.900	17.020	212.42	212.42	5.0778	mg/
		235.26	22.900	17.160	213.59	213.59	5.1058	mg/
		227.40	20.980	15.900	207.51	207.51	4.9602	mg/
Se	196.090	78.180	0.00000	5.7400	72.440	72.440	5.2725	mg/
		78.240	0.00000	5.8800	72.360	72.360	5.2667	mg/
		76.440	0.00000	5.8800	70.560	70.560	5.1363	mg/
Mo	202.030	226.00	2.9000	0.00000	223.10	223.10	4.9538	mg/
		229.60	2.7000	0.00000	226.90	226.90	5.0381	mg/
		230.50	2.7000	0.00000	227.80	227.80	5.0581	mg/
Se	203.985	129.46	0.00000	13.880	115.58	115.58	7.9564	mg/
		127.52	0.00000	14.640	112.88	112.88	7.7697	mg/
		127.24	0.00000	14.840	112.40	112.40	7.7365	mg/
Cr	205.552	245.80	0.00000	2.5000	243.30	243.30	5.2568	mg/
		234.30	0.00000	2.6000	231.70	231.70	5.0061	mg/
		244.40	0.00000	2.4000	242.00	242.00	5.2287	mg/

		330.62	0.00000	16.140	314.48	314.48	5.0310	mg/
Zn	213.856	272.10	0.00000	1.9000	270.20	270.20	5.0740	mg/
		276.10	0.00000	1.7000	274.40	274.40	5.1530	mg/
		277.40	0.00000	1.7000	275.70	275.70	5.1775	mg/
Sb	217.581	348.10	0.00000	19.520	328.58	328.58	4.9969	mg/
		347.22	0.00000	19.280	327.94	327.94	4.9872	mg/
		355.50	0.00000	19.320	336.18	336.18	5.1128	mg/
Pb	220.353	317.84	23.440	26.480	292.61	292.61	5.1549	mg/
		323.42	24.080	26.680	297.81	297.81	5.2464	mg/
		323.84	24.980	24.860	298.93	298.93	5.2661	mg/
Co	228.616	437.80	0.00000	5.9000	431.90	431.90	5.2376	mg/
		439.70	0.00000	5.5000	434.20	434.20	5.2655	mg/
		438.20	0.00000	5.3000	432.90	432.90	5.2497	mg/
Cd	228.802	281.80	0.00000	2.7000	279.10	279.10	5.2322	mg/
		271.10	0.00000	2.8000	268.30	268.30	5.0297	mg/
		274.00	0.00000	2.8000	271.20	271.20	5.0841	mg/
Ni	231.604	348.80	0.00000	6.3000	342.50	342.50	5.1667	mg/
		344.70	0.00000	6.7000	338.00	338.00	5.0988	mg/
		343.80	0.00000	6.6000	337.20	337.20	5.0867	mg/
Be	234.861	5214.0	0.00000	10.000	5204.0	5204.0	5.2127	mg/
		5193.0	0.00000	10.000	5183.0	5183.0	5.1916	mg/
		5277.0	0.00000	10.000	5267.0	5267.0	5.2758	mg/
B	249.678	2447.0	0.00000	11.700	2435.3	2435.3	5.2520	mg/
		2395.0	0.00000	12.100	2382.9	2382.9	5.1387	mg/
		2456.8	0.00000	12.300	2444.5	2444.5	5.2719	mg/
Mn	257.610	4825.0	0.00000	17.000	4808.0	4808.0	5.1915	mg/
		4836.0	0.00000	17.000	4819.0	4819.0	5.2034	mg/
		4863.0	0.00000	16.000	4847.0	4847.0	5.2336	mg/
Fe	259.940	446.90	0.00000	4.9000	442.00	442.00	5.1355	mg/
		428.60	0.00000	4.3000	424.30	424.30	4.9296	mg/
		437.30	0.00000	4.7000	432.60	432.60	5.0262	mg/
Fe	271.441	11.700	2.4000	0.00000	9.3000	9.3000	5.3879	mg/
		11.300	2.3000	0.00000	9.0000	9.0000	5.2134	mg/
		12.000	2.5000	0.00000	9.5000	9.5000	5.5041	mg/
Mg	279.553	5752.0	0.00000	11.000	5741.0	5741.0	5.3070	mg/
		5842.0	0.00000	11.000	5831.0	5831.0	5.3903	mg/
		5598.0	0.00000	10.000	5588.0	5588.0	5.1655	mg/
V	292.402	806.30	9.3000	0.00000	797.00	797.00	5.1300	mg/
		818.60	9.2000	0.00000	809.40	809.40	5.2098	mg/
		832.40	9.2000	0.00000	823.20	823.20	5.2986	mg/
Al	308.215	19.400	2.0000	0.00000	17.400	17.400	5.0935	mg/
		20.600	2.4000	0.00000	18.200	18.200	5.3272	mg/
		20.200	2.2000	0.00000	18.000	18.000	5.2688	mg/
Ca	315.887	375.30	0.00000	41.300	334.00	334.00	5.2049	mg/
		387.80	0.00000	41.600	346.20	346.20	5.3932	mg/
		375.10	0.00000	42.100	333.00	333.00	5.1895	mg/
Cu	324.754	6386.0	0.00000	115.00	6271.0	6271.0	4.8492	mg/
		6196.0	0.00000	117.00	6079.0	6079.0	4.7005	mg/
		6296.0	0.00000	114.00	6182.0	6182.0	4.7802	mg/
Ag	328.068	818.00	0.00000	185.10	632.90	632.90	0.48788	mg/
		811.70	0.00000	188.80	622.90	622.90	0.48011	mg/
		822.90	0.00000	179.80	643.10	643.10	0.49580	mg/
Ti	334.941	6181.0	0.00000	69.000	6112.0	6112.0	4.9993	mg/
		6106.0	0.00000	71.000	6035.0	6035.0	4.9363	mg/
		6207.0	0.00000	70.000	6137.0	6137.0	5.0198	mg/
Y	371.030	66200	0.00000	500.00	65700	65700	4.8590	mg/
		70590	0.00000	490.00	70100	70100	5.1844	mg/
		68160	0.00000	490.00	67670	67670	5.0047	mg/
Mg	383.826	1943.0	308.00	0.00000	1635.0	1635.0	5.0407	mg/
		1917.0	304.00	0.00000	1613.0	1613.0	4.9734	mg/
		1896.0	300.00	0.00000	1596.0	1596.0	4.9214	mg/
Ca	393.366	74880	0.00000	180.00	74700	74700	5.1004	mg/
		74560	0.00000	180.00	74380	74380	5.0784	mg/
		74990	0.00000	180.00	74810	74810	5.1079	mg/

		843.90	0.00000	68.100	775.80	775.80	5.1251	mg/
Sr	421.552	77280	630.00	0.00000	76650	76650	4.5529	mg/
		79480	660.00	0.00000	78820	78820	4.6819	mg/
		80720	640.00	0.00000	80080	80080	4.7567	mg/
Zn	481.053	193.00	0.00000	99.400	93.600	93.600	4.8949	mg/
		190.90	0.00000	104.40	86.500	86.500	4.5159	mg/
		190.60	0.00000	99.400	91.200	91.200	4.7668	mg/
Ba	493.409	87520	410.00	0.00000	87110	87110	4.7124	mg/
		89120	420.00	0.00000	88700	88700	4.7984	mg/
		90820	420.00	0.00000	90400	90400	4.8904	mg/
Na	588.995	1369.0	111.00	0.00000	1258.0	1258.0	5.0891	mg/
		1337.0	112.00	0.00000	1225.0	1225.0	4.9582	mg/
		1370.0	112.00	0.00000	1258.0	1258.0	5.0891	mg/
Li	670.784	2655.9	0.00000	24.000	2631.9	2631.9	4.9675	mg/
		2619.8	0.00000	24.000	2595.8	2595.8	4.8994	mg/
		2642.6	0.00000	24.000	2618.6	2618.6	4.9424	mg/
K	766.490	191.60	0.00000	26.900	164.70	164.70	4.7028	mg/
		194.00	0.00000	26.900	167.10	167.10	4.7716	mg/
		186.70	0.00000	27.100	159.60	159.60	4.5566	mg/
K	769.896	225.70	0.00000	45.500	180.20	180.20	4.8186	mg/
		223.50	0.00000	46.700	176.80	176.80	4.7276	mg/
		225.60	0.00000	47.900	177.70	177.70	4.7517	mg/

----- 10:50:27 7/ 7/99 ----- Method: JYSED5

Sample SED5 AQC 1- - 2

EL	Wave	Concentration	SD	RSD
Sn	189.989	5.0651 mg/L	0.14399	2.8
Tl	190.864	4.8635 mg/L	0.06541	1.3
Tl	190.883	5.0096 mg/L	0.26606	5.3
As	193.759	5.0480 mg/L	0.07726	1.5
Se	196.090	5.2252 mg/L	0.07705	1.5
Mo	202.030	5.0166 mg/L	0.05538	1.1
Se	203.985	7.8209 mg/L	0.11854	1.5
Cr	205.552	5.1639 mg/L	0.13735	2.7
Sb	206.833	5.0173 mg/L	0.09134	1.8
Zn	213.856	5.1349 mg/L	0.05409	1.0
Sb	217.581	5.0323 mg/L	0.06988	1.4
Pb	220.353	5.2225 mg/L	0.05933	1.1
Co	228.616	5.2509 mg/L	0.01399	0.27
Cd	228.802	5.1153 mg/L	0.10480	2.0
Ni	231.604	5.1174 mg/L	0.04310	0.84
Be	234.861	5.2267 mg/L	0.04379	0.84
B	249.678	5.2208 mg/L	0.07186	1.4
Mn	257.610	5.2095 mg/L	0.02172	0.42
Fe	259.940	5.0304 mg/L	0.10298	2.0
Fe	271.441	5.3685 mg/L	0.14632	2.7
Mg	279.553	5.2876 mg/L	0.11367	2.1
V	292.402	5.2128 mg/L	0.08431	1.6
Al	308.215	5.2298 mg/L	0.12164	2.3
Ca	315.887	5.2625 mg/L	0.11343	2.2
Cu	324.754	4.7766 mg/L	0.07439	1.6
Ag	328.068	0.48793 mg/L	0.00785	1.6
Ti	334.941	4.9851 mg/L	0.04352	0.87
Y	371.030	5.0160 mg/L	0.16298	3.2
Mg	383.826	4.9785 mg/L	0.05981	1.2
Ca	393.366	5.0956 mg/L	0.01534	0.30
Al	396.152	5.0308 mg/L	0.10751	2.1
Sr	421.552	4.6638 mg/L	0.10308	2.2
Zn	481.053	4.7259 mg/L	0.19278	4.1
Ba	493.409	4.8004 mg/L	0.08900	1.8

K	766.490	4.6770 mg/L	0.10981	2.3
K	769.896	4.7660 mg/L	0.04716	0.99

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.009974nm #Steps = 22.16

Measurements for HIGH AQC 1- - 3

Sn	189.989	12.400	0.00000	10.100	2.3000	2.3000	0.11069	mg/
		10.300	0.00000	9.5000	0.80000	0.80000	0.06661	mg/
		11.300	0.00000	8.8000	2.5000	2.5000	0.11656	mg/
Tl	190.864	27.180	15.120	0.00000	12.060	12.060	0.37850	mg/
		25.280	15.400	0.00000	9.8800	9.8800	0.30762	mg/
		26.280	14.920	0.00000	11.360	11.360	0.35574	mg/
Tl	190.883	15.560	15.580	0.00000	-0.02000	-0.02000	0.03608	mg/
		14.980	15.360	0.00000	-0.38000	-0.38000	0.01261	mg/
		15.180	16.400	0.00000	-1.2200	-1.2200	-0.04216	mg/
As	193.759	49.100	55.560	34.900	-2.0329	-2.0329	-0.05703	mg/
		49.160	57.180	33.960	-3.0443	-3.0443	-0.08125	mg/
		49.360	55.360	32.260	-1.0500	-1.0500	-0.03350	mg/
Se	196.090	8.7000	0.00000	8.8800	-0.18000	-0.18000	0.00918	mg/
		9.6600	0.00000	9.1200	0.54000	0.54000	0.06136	mg/
		9.1800	0.00000	9.2800	-0.10000	-0.10000	0.01498	mg/
Mo	202.030	4.7000	4.7000	0.00000	0.00000	0.00000	0.00148	mg/
		4.9000	4.4000	0.00000	0.50000	0.50000	0.01258	mg/
		5.0000	4.6000	0.00000	0.40000	0.40000	0.01036	mg/
Se	203.985	21.480	0.00000	23.820	-2.3400	-2.3400	-0.19777	mg/
		21.960	0.00000	23.320	-1.3600	-1.3600	-0.13000	mg/
		22.360	0.00000	23.980	-1.6200	-1.6200	-0.14798	mg/
Cr	205.552	3.4000	0.00000	3.2000	0.20000	0.20000	0.00288	mg/
		3.2000	0.00000	3.0000	0.20000	0.20000	0.00288	mg/
		3.5000	0.00000	3.1000	0.40000	0.40000	0.00720	mg/
Sb	206.833	30.040	0.00000	31.720	-1.6800	-1.6800	-0.03633	mg/
		29.500	0.00000	31.960	-2.4600	-2.4600	-0.04883	mg/
		29.220	0.00000	31.780	-2.5600	-2.5600	-0.05043	mg/
Zn	213.856	5012.9	0.00000	4.0000	5008.9	5008.9	94.248	mg/
		5140.9	0.00000	3.8000	5137.1	5137.1	96.660	mg/
		5024.9	0.00000	3.7000	5021.2	5021.2	94.479	mg/
Sb	217.581	24.360	0.00000	25.020	-0.66000	-0.66000	-0.02236	mg/
		25.320	0.00000	25.460	-0.14000	-0.14000	-0.01443	mg/
		25.180	0.00000	24.860	0.32000	0.32000	-0.00742	mg/
Pb	220.353	28.840	25.280	30.400	0.54824	0.54824	0.01523	mg/
		29.120	27.600	29.460	0.42588	0.42588	0.01308	mg/
		27.360	26.340	30.000	-1.1329	-1.1329	-0.01435	mg/
Co	228.616	4.4000	0.00000	4.7000	-0.30000	-0.30000	-0.00526	mg/
		5.1000	0.00000	4.8000	0.30000	0.30000	0.00202	mg/
		4.8000	0.00000	4.7000	0.10000	0.10000	-0.00040	mg/
Cd	228.802	2.3000	0.00000	2.2000	0.10000	0.10000	0.00125	mg/
		2.4000	0.00000	2.2000	0.20000	0.20000	0.00312	mg/
		2.4000	0.00000	2.2000	0.20000	0.20000	0.00312	mg/
Ni	231.604	6.6000	0.00000	5.9000	0.70000	0.70000	0.01106	mg/
		6.1000	0.00000	5.9000	0.20000	0.20000	0.00352	mg/
		6.4000	0.00000	6.4000	0.00000	0.00000	0.00050	mg/
Be	234.861	10.000	0.00000	10.000	0.00000	0.00000	0.00000	mg/
		10.000	0.00000	10.000	0.00000	0.00000	0.00000	mg/
		11.000	0.00000	10.000	1.0000	1.0000	0.00100	mg/
B	249.678	43.600	0.00000	13.300	30.300	30.300	0.05096	mg/
		41.400	0.00000	12.600	28.800	28.800	0.04772	mg/
		40.500	0.00000	12.500	28.000	28.000	0.04599	mg/
Mn	257.610	15.000	0.00000	13.000	2.0000	2.0000	0.00072	mg/
		15.000	0.00000	13.000	2.0000	2.0000	0.00072	mg/
		15.000	0.00000	13.000	2.0000	2.0000	0.00072	mg/
Fe	259.940	7949.1	0.00000	6.6000	7942.5	7942.5	92.354	mg/
		8228.2	0.00000	6.3000	8221.9	8221.9	95.603	mg/

		168.00	2.4000	0.00000	165.60	165.60	96.264	mg/
		172.90	2.3000	0.00000	170.60	170.60	99.171	mg/
Mg	279.553	56067	0.00000	32.000	56035	56035	51.840	mg/
		54410	0.00000	33.000	54377	54377	50.306	mg/
		55591	0.00000	33.000	55558	55558	51.398	mg/
V	292.402	7.0000	9.1000	0.00000	-2.1000	-2.1000	-0.01029	mg/
		7.3000	9.6000	0.00000	-2.3000	-2.3000	-0.01158	mg/
		6.7000	10.000	0.00000	-3.3000	-3.3000	-0.01801	mg/
Al	308.215	358.70	2.7000	0.00000	356.00	356.00	104.02	mg/
		344.80	3.4000	0.00000	341.40	341.40	99.757	mg/
		348.20	3.0000	0.00000	345.20	345.20	100.87	mg/
Ca	315.887	6745.3	0.00000	56.400	6688.9	6688.9	103.29	mg/
		6555.8	0.00000	56.000	6499.8	6499.8	100.37	mg/
		6734.1	0.00000	57.200	6676.9	6676.9	103.10	mg/
Cu	324.754	106.00	0.00000	123.00	-17.000	-17.000	-0.01910	mg/
		114.00	0.00000	118.00	-4.0000	-4.0000	-0.00903	mg/
		110.00	0.00000	124.00	-14.000	-14.000	-0.01677	mg/
Ag	328.068	173.40	0.00000	169.70	3.7000	3.7000	-0.00096	mg/
		171.20	0.00000	168.90	2.3000	2.3000	-0.00205	mg/
		169.90	0.00000	175.30	-5.4000	-5.4000	-0.00803	mg/
Ti	334.941	59.000	0.00000	59.000	0.00000	0.00000	-0.00355	mg/
		60.000	0.00000	58.000	2.0000	2.0000	-0.00191	mg/
		60.000	0.00000	58.000	2.0000	2.0000	-0.00191	mg/
Y	371.030	470.00	0.00000	450.00	20.000	20.000	0.00222	mg/
		470.00	0.00000	440.00	30.000	30.000	0.00296	mg/
		460.00	0.00000	440.00	20.000	20.000	0.00222	mg/
Mg	383.826	18429	353.00	0.00000	18076	18076	55.328	mg/
		17962	353.00	0.00000	17609	17609	53.900	mg/
		18864	358.00	0.00000	18506	18506	56.643	mg/
Ca	393.366	+o******	0.00000	930.00	+o******	+o******	82.325	mg/>
		+o******	0.00000	890.00	+o******	+o******	82.328	mg/>
		+o******	0.00000	930.00	+o******	+o******	82.325	mg/>
Al	396.152	14908	0.00000	130.00	14778	14778	97.906	mg/
		14995	0.00000	128.00	14867	14867	98.496	mg/
		14658	0.00000	130.00	14528	14528	96.250	mg/
Sr	421.552	240.00	200.00	0.00000	40.000	40.000	0.00158	mg/
		240.00	210.00	0.00000	30.000	30.000	0.00099	mg/
		240.00	210.00	0.00000	30.000	30.000	0.00099	mg/
Zn	481.053	1902.4	0.00000	105.10	1797.3	1797.3	95.838	mg/
		1914.4	0.00000	105.80	1808.6	1808.6	96.441	mg/
		1889.5	0.00000	101.10	1788.4	1788.4	95.363	mg/
Ba	493.409	350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
		360.00	350.00	0.00000	10.000	10.000	0.00072	mg/
		350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
Na	588.995	24799	230.00	0.00000	24569	24569	97.529	mg/
		24667	229.00	0.00000	24438	24438	97.010	mg/
		24637	231.00	0.00000	24406	24406	96.883	mg/
Li	670.784	15.800	0.00000	14.800	1.0000	1.0000	0.00038	mg/
		16.400	0.00000	15.500	0.90000	0.90000	0.00019	mg/
		16.500	0.00000	15.200	1.3000	1.3000	0.00094	mg/
K	766.490	3621.7	0.00000	37.200	3584.5	3584.5	102.75	mg/
		3679.2	0.00000	39.900	3639.3	3639.3	104.32	mg/
		3322.7	0.00000	36.900	3285.8	3285.8	94.185	mg/
K	769.896	3895.4	0.00000	59.000	3836.4	3836.4	102.70	mg/
		3876.8	0.00000	56.000	3820.8	3820.8	102.28	mg/
		3595.7	0.00000	58.000	3537.7	3537.7	94.699	mg/

----- 10:58:26 7/ 7/99 ----- Method: JYSED5

Sample HIGH AQC 1- - 3

EL	Wave	Concentration	SD	RSD

Tl	190.883	0.00217	mg/L	0.04015	+o***
As	193.759	-0.05726	mg/L	0.02388	42
Se	196.090	0.02851	mg/L	0.02860	100
Mo	202.030	0.00814	mg/L	0.00587	72
Se	203.985	-0.15858	mg/L	0.03511	22
Cr	205.552	0.00432	mg/L	0.00250	58
Sb	206.833	-0.04520	mg/L	0.00772	17
Zn	213.856	95.129	mg/L	1.3311	1.4
Sb	217.581	-0.01474	mg/L	0.00747	51
Pb	220.353	0.00465	mg/L	0.01649	360
Co	228.616	-0.00121	mg/L	0.00371	310
Cd	228.802	0.00250	mg/L	0.00108	43
Ni	231.604	0.00503	mg/L	0.00544	110
Be	234.861	0.00033	mg/L	0.00058	170
B	249.678	0.04823	mg/L	0.00253	5.2
Mn	257.610	0.00072	mg/L	0.00000	0.00
Fe	259.940	95.046	mg/L	2.4607	2.6
Fe	271.441	97.078	mg/L	1.8276	1.9
Mg	279.553	51.181	mg/L	0.78971	1.5
V	292.402	-0.01329	mg/L	0.00414	31
Al	308.215	101.55	mg/L	2.2130	2.2
Ca	315.887	102.25	mg/L	1.6342	1.6
Cu	324.754	-0.01497	mg/L	0.00527	35
Ag	328.068	-0.00368	mg/L	0.00381	100
Ti	334.941	-0.00246	mg/L	0.00095	38
Y	371.030	0.00246	mg/L	0.00043	17
Mg	383.826	55.290	mg/L	1.3722	2.5
Ca >	393.366	+o********	mg/L	0.00159	0.00
Al	396.152	97.551	mg/L	1.1646	1.2
Sr	421.552	0.00119	mg/L	0.00034	29
Zn	481.053	95.880	mg/L	0.54040	0.56
Ba	493.409	0.00036	mg/L	0.00031	87
Na	588.995	97.141	mg/L	0.34248	0.35
Li	670.784	0.00050	mg/L	0.00039	78
K	766.490	100.42	mg/L	5.4547	5.4
K	769.896	99.891	mg/L	4.5009	4.5

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010361nm #Steps = 23.02

Measurements for WASH- - 4

Sn	189.989	6.0000	0.00000	6.8000	-0.80000	-0.80000	0.01959	mg/
		6.2000	0.00000	7.2000	-1.0000	-1.0000	0.01371	mg/
		6.2000	0.00000	5.7000	0.50000	0.50000	0.05779	mg/
Tl	190.864	10.240	12.080	0.00000	-1.8400	-1.8400	-0.07349	mg/
		9.9200	11.420	0.00000	-1.5000	-1.5000	-0.06243	mg/
		10.160	10.600	0.00000	-0.44000	-0.44000	-0.02797	mg/
Tl	190.883	10.060	10.220	0.00000	-0.16000	-0.16000	0.02695	mg/
		10.200	9.5800	0.00000	0.62000	0.62000	0.07781	mg/
		9.5400	9.4200	0.00000	0.12000	0.12000	0.04521	mg/
As	193.759	13.580	14.600	13.260	-0.73286	-0.73286	-0.02591	mg/
		12.800	14.400	13.400	-1.3857	-1.3857	-0.04154	mg/
		14.100	12.660	13.540	1.2514	1.2514	0.02161	mg/
Se	196.090	4.9000	0.00000	5.4800	-0.58000	-0.58000	-0.01981	mg/
		5.4200	0.00000	5.0400	0.38000	0.38000	0.04977	mg/
		5.2800	0.00000	5.3600	-0.08000	-0.08000	0.01643	mg/
Mo	202.030	2.7000	2.4000	0.00000	0.30000	0.30000	0.00814	mg/
		2.6000	2.6000	0.00000	0.00000	0.00000	0.00148	mg/
		2.6000	2.5000	0.00000	0.10000	0.10000	0.00370	mg/
Se	203.985	12.240	0.00000	11.760	0.48000	0.48000	-0.00277	mg/
		12.240	0.00000	12.240	0.00000	0.00000	-0.03596	mg/
		12.040	0.00000	12.460	-0.42000	-0.42000	-0.06500	mg/
Cr	205.552	2.0000	0.00000	2.0000	0.00000	0.00000	-0.00144	mg/

Sb	206.833	14.860	0.00000	14.860	0.00000	0.00000	-0.00940	mg/
		15.580	0.00000	14.480	1.1000	1.1000	0.00823	mg/
		15.060	0.00000	14.860	0.20000	0.20000	-0.00620	mg/
Zn	213.856	3.9000	0.00000	1.6000	2.3000	2.3000	0.03262	mg/
		3.7000	0.00000	1.6000	2.1000	2.1000	0.02885	mg/
		3.6000	0.00000	1.4000	2.2000	2.2000	0.03074	mg/
Sb	217.581	18.960	0.00000	18.980	-0.02000	-0.02000	-0.01260	mg/
		17.560	0.00000	19.120	-1.5600	-1.5600	-0.03608	mg/
		19.520	0.00000	19.160	0.36000	0.36000	-0.00681	mg/
Pb	220.353	21.760	23.160	22.600	-1.0706	-1.0706	-0.01326	mg/
		22.920	22.580	23.240	-0.04824	-0.04824	0.00473	mg/
		23.520	22.880	23.680	0.16941	0.16941	0.00856	mg/
Co	228.616	3.9000	0.00000	4.0000	-0.10000	-0.10000	-0.00283	mg/
		4.0000	0.00000	4.9000	-0.90000	-0.90000	-0.01253	mg/
		4.5000	0.00000	4.0000	0.50000	0.50000	0.00445	mg/
Cd	228.802	2.2000	0.00000	2.3000	-0.10000	-0.10000	-0.00250	mg/
		2.3000	0.00000	2.1000	0.20000	0.20000	0.00312	mg/
		2.2000	0.00000	2.0000	0.20000	0.20000	0.00312	mg/
Ni	231.604	6.9000	0.00000	6.0000	0.90000	0.90000	0.01408	mg/
		6.7000	0.00000	5.5000	1.2000	1.2000	0.01860	mg/
		6.3000	0.00000	5.8000	0.50000	0.50000	0.00804	mg/
Be	234.861	9.0000	0.00000	9.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
B	249.678	21.100	0.00000	11.200	9.9000	9.9000	0.00685	mg/
		20.900	0.00000	11.600	9.3000	9.3000	0.00555	mg/
		22.300	0.00000	11.100	11.200	11.200	0.00966	mg/
Mn	257.610	11.000	0.00000	11.000	0.00000	0.00000	-0.00144	mg/
		12.000	0.00000	11.000	1.0000	1.0000	-0.00036	mg/
		12.000	0.00000	12.000	0.00000	0.00000	-0.00144	mg/
Fe	259.940	3.2000	0.00000	3.2000	0.00000	0.00000	-0.00426	mg/
		3.0000	0.00000	3.0000	0.00000	0.00000	-0.00426	mg/
		3.3000	0.00000	3.0000	0.30000	0.30000	-0.00078	mg/
Fe	271.441	2.3000	2.3000	0.00000	0.00000	0.00000	-0.01938	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
		2.3000	2.3000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	8.0000	0.00000	8.0000	0.00000	0.00000	-0.00463	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	-0.00463	mg/
		8.0000	0.00000	7.0000	1.0000	1.0000	-0.00370	mg/
V	292.402	6.5000	6.2000	0.00000	0.30000	0.30000	0.00515	mg/
		6.6000	6.1000	0.00000	0.50000	0.50000	0.00643	mg/
		5.9000	6.5000	0.00000	-0.60000	-0.60000	-0.00064	mg/
Al	308.215	2.1000	2.3000	0.00000	-0.20000	-0.20000	-0.04869	mg/
		1.8000	2.4000	0.00000	-0.60000	-0.60000	-0.16556	mg/
		2.3000	2.4000	0.00000	-0.10000	-0.10000	-0.01948	mg/
Ca	315.887	38.600	0.00000	44.200	-5.6000	-5.6000	-0.03653	mg/
		38.000	0.00000	44.100	-6.1000	-6.1000	-0.04424	mg/
		39.800	0.00000	43.600	-3.8000	-3.8000	-0.00875	mg/
Cu	324.754	157.00	0.00000	103.00	54.000	54.000	0.03587	mg/
		159.00	0.00000	104.00	55.000	55.000	0.03665	mg/
		158.00	0.00000	105.00	53.000	53.000	0.03510	mg/
Ag	328.068	172.30	0.00000	172.30	0.00000	0.00000	-0.00383	mg/
		175.70	0.00000	175.00	0.70000	0.70000	-0.00329	mg/
		169.60	0.00000	170.00	-0.40000	-0.40000	-0.00414	mg/
Ti	334.941	58.000	0.00000	55.000	3.0000	3.0000	-0.00109	mg/
		59.000	0.00000	57.000	2.0000	2.0000	-0.00191	mg/
		58.000	0.00000	56.000	2.0000	2.0000	-0.00191	mg/
Y	371.030	430.00	0.00000	440.00	-10.000	-10.000	0.00000	mg/
		420.00	0.00000	430.00	-10.000	-10.000	0.00000	mg/
		460.00	0.00000	450.00	10.000	10.000	0.00148	mg/
Mg	383.826	300.00	323.00	0.00000	-23.000	-23.000	-0.03059	mg/
		308.00	309.00	0.00000	-1.0000	-1.0000	0.03670	mg/
		297.00	321.00	0.00000	-24.000	-24.000	-0.03365	mg/
Ca	393.366	150.00	0.00000	140.00	10.000	10.000	-0.02953	mg/

Al	396.152	69.000	0.00000	68.600	0.40000	0.40000	-0.01281	mg/
		72.400	0.00000	71.500	0.90000	0.90000	-0.00950	mg/
		70.200	0.00000	69.500	0.70000	0.70000	-0.01082	mg/
Sr	421.552	210.00	210.00	0.00000	0.00000	0.00000	-0.00079	mg/
		210.00	210.00	0.00000	0.00000	0.00000	-0.00079	mg/
		210.00	210.00	0.00000	0.00000	0.00000	-0.00079	mg/
Zn	481.053	106.70	0.00000	107.10	-0.40000	-0.40000	-0.12277	mg/
		110.40	0.00000	108.10	2.3000	2.3000	0.02135	mg/
		105.60	0.00000	101.80	3.8000	3.8000	0.10142	mg/
Ba	493.409	350.00	360.00	0.00000	-10.000	-10.000	-0.00036	mg/
		350.00	360.00	0.00000	-10.000	-10.000	-0.00036	mg/
		360.00	350.00	0.00000	10.000	10.000	0.00072	mg/
Na	588.995	81.000	113.00	0.00000	-32.000	-32.000	-0.02644	mg/
		77.000	112.00	0.00000	-35.000	-35.000	-0.03833	mg/
		79.000	108.00	0.00000	-29.000	-29.000	-0.01454	mg/
Li	670.784	15.800	0.00000	15.800	0.00000	0.00000	-0.00151	mg/
		16.100	0.00000	15.800	0.30000	0.30000	-0.00094	mg/
		16.000	0.00000	15.700	0.30000	0.30000	-0.00094	mg/
K	766.490	29.400	0.00000	30.400	-1.0000	-1.0000	-0.04778	mg/
		27.400	0.00000	30.800	-3.4000	-3.4000	-0.11659	mg/
		29.600	0.00000	28.100	1.5000	1.5000	0.02389	mg/
K	769.896	51.900	0.00000	51.200	0.70000	0.70000	0.01339	mg/
		50.500	0.00000	48.000	2.5000	2.5000	0.06157	mg/
		51.400	0.00000	46.900	4.5000	4.5000	0.11511	mg/

----- 11:06:26 7/ 7/99 ----- Method: JYSED5

Sample WASH- - 4

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.03037 mg/L	0.02393	79
Tl	190.864	-0.05463 mg/L	0.02374	43
Tl	190.883	0.04999 mg/L	0.02576	52
As	193.759	-0.01528 mg/L	0.03289	220
Se	196.090	0.01546 mg/L	0.03480	230
Mo	202.030	0.00444 mg/L	0.00339	76
Se	203.985	-0.03457 mg/L	0.03114	90
Cr	205.552	-0.00072 mg/L	0.00330	460
Sb	206.833	-0.00246 mg/L	0.00939	380
Zn	213.856	0.03074 mg/L	0.00188	6.1
Sb	217.581	-0.01850 mg/L	0.01550	84
Pb	220.353	0.00001 mg/L	0.01165	+o***
Co	228.616	-0.00364 mg/L	0.00852	230
Cd	228.802	0.00125 mg/L	0.00325	260
Ni	231.604	0.01358 mg/L	0.00530	39
Be	234.861	0.00000 mg/L	0.00000	0.00
B	249.678	0.00735 mg/L	0.00210	29
Mn	257.610	-0.00108 mg/L	0.00062	58
Fe	259.940	-0.00310 mg/L	0.00201	65
Fe	271.441	-0.01938 mg/L	0.00000	0.00
Mg	279.553	-0.00432 mg/L	0.00053	12
V	292.402	0.00365 mg/L	0.00377	100
Al	308.215	-0.07791 mg/L	0.07730	99
Ca	315.887	-0.02984 mg/L	0.01867	63
Cu	324.754	0.03587 mg/L	0.00077	2.2
Ag	328.068	-0.00376 mg/L	0.00043	12
Ti	334.941	-0.00164 mg/L	0.00047	29
Y	371.030	0.00049 mg/L	0.00085	170
Mg	383.826	-0.00918 mg/L	0.03976	430
Ca	393.366	-0.02953 mg/L	0.00000	0.00
Al	396.152	-0.01104 mg/L	0.00167	15
Sr	421.552	-0.00079 mg/L	0.00000	0.00

Na	588.995	-0.02644 mg/L	0.01190	45
Li	670.784	-0.00113 mg/L	0.00033	29
K	766.490	-0.04683 mg/L	0.07025	150
K	769.896	0.06336 mg/L	0.05089	80

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010604nm #Steps = 23.56

Measurements for DIGEST BLK1-RUN 1111- 5

Sn	189.989	6.6000	0.00000	5.7000	0.90000	0.90000	0.06955	mg/
		7.6000	0.00000	5.7000	1.9000	1.9000	0.09893	mg/
		6.9000	0.00000	4.9000	2.0000	2.0000	0.10187	mg/
Tl	190.864	12.720	11.200	0.00000	1.5200	1.5200	0.03577	mg/
		10.620	11.920	0.00000	-1.3000	-1.3000	-0.05593	mg/
		10.120	9.9400	0.00000	0.18000	0.18000	-0.00780	mg/
Tl	190.883	10.400	10.300	0.00000	0.10000	0.10000	0.04390	mg/
		9.8400	9.7400	0.00000	0.10000	0.10000	0.04390	mg/
		9.7400	9.5600	0.00000	0.18000	0.18000	0.04912	mg/
As	193.759	14.300	16.340	13.800	-1.4957	-1.4957	-0.04417	mg/
		14.140	13.980	14.840	-0.02429	-0.02429	-0.00894	mg/
		12.400	13.900	14.020	-1.5257	-1.5257	-0.04489	mg/
Se	196.090	5.3800	0.00000	5.2000	0.18000	0.18000	0.03527	mg/
		5.1400	0.00000	5.3400	-0.20000	-0.20000	0.00773	mg/
		5.0600	0.00000	5.5200	-0.46000	-0.46000	-0.01111	mg/
Mo	202.030	3.0000	2.6000	0.00000	0.40000	0.40000	0.01036	mg/
		2.7000	2.3000	0.00000	0.40000	0.40000	0.01036	mg/
		2.8000	2.8000	0.00000	0.00000	0.00000	0.00148	mg/
Se	203.985	12.400	0.00000	12.260	0.14000	0.14000	-0.02628	mg/
		12.500	0.00000	12.260	0.24000	0.24000	-0.01936	mg/
		12.600	0.00000	13.200	-0.60000	-0.60000	-0.07745	mg/
Cr	205.552	2.0000	0.00000	1.8000	0.20000	0.20000	0.00288	mg/
		2.1000	0.00000	2.2000	-0.10000	-0.10000	-0.00360	mg/
		2.0000	0.00000	1.9000	0.10000	0.10000	0.00072	mg/
Sb	206.833	15.960	0.00000	14.600	1.3600	1.3600	0.01239	mg/
		15.740	0.00000	15.140	0.60000	0.60000	0.00021	mg/
		14.800	0.00000	14.620	0.18000	0.18000	-0.00652	mg/
Zn	213.856	3.0000	0.00000	1.6000	1.4000	1.4000	0.01568	mg/
		3.4000	0.00000	1.5000	1.9000	1.9000	0.02509	mg/
		3.1000	0.00000	1.5000	1.6000	1.6000	0.01945	mg/
Sb	217.581	18.920	0.00000	18.500	0.42000	0.42000	-0.00589	mg/
		18.700	0.00000	19.060	-0.36000	-0.36000	-0.01779	mg/
		18.840	0.00000	18.600	0.24000	0.24000	-0.00864	mg/
Pb	220.353	22.160	21.820	22.640	-0.14235	-0.14235	0.00308	mg/
		23.060	22.700	22.600	0.41882	0.41882	0.01295	mg/
		22.600	23.680	22.680	-0.49176	-0.49176	-0.00307	mg/
Co	228.616	4.5000	0.00000	3.8000	0.70000	0.70000	0.00687	mg/
		3.8000	0.00000	4.2000	-0.40000	-0.40000	-0.00647	mg/
		3.9000	0.00000	4.4000	-0.50000	-0.50000	-0.00768	mg/
Cd	228.802	2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00250	mg/
		2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	mg/
		2.2000	0.00000	2.0000	0.20000	0.20000	0.00312	mg/
Ni	231.604	6.5000	0.00000	5.7000	0.80000	0.80000	0.01257	mg/
		5.9000	0.00000	6.1000	-0.20000	-0.20000	-0.00251	mg/
		5.9000	0.00000	6.0000	-0.10000	-0.10000	-0.00101	mg/
Be	234.861	8.0000	0.00000	9.0000	-1.0000	-1.0000	-0.00100	mg/
		9.0000	0.00000	8.0000	1.0000	1.0000	0.00100	mg/
		9.0000	0.00000	9.0000	0.00000	0.00000	0.00000	mg/
B	249.678	39.000	0.00000	11.100	27.900	27.900	0.04577	mg/
		39.200	0.00000	10.600	28.600	28.600	0.04729	mg/
		38.900	0.00000	10.400	28.500	28.500	0.04707	mg/
Mn	257.610	12.000	0.00000	12.000	0.00000	0.00000	-0.00144	mg/
		12.000	0.00000	11.000	1.0000	1.0000	-0.00036	mg/
		13.000	0.00000	11.000	2.0000	2.0000	0.00072	mg/

		4.5000	0.00000	3.1000	1.4000	1.4000	0.01202	mg/
Fe	271.441	2.2000	2.1000	0.00000	0.10000	0.10000	0.03876	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
		2.1000	2.1000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	71.000	0.00000	8.0000	63.000	63.000	0.05366	mg/
		74.000	0.00000	7.0000	67.000	67.000	0.05736	mg/
		71.000	0.00000	7.0000	64.000	64.000	0.05459	mg/
V	292.402	6.4000	6.0000	0.00000	0.40000	0.40000	0.00579	mg/
		6.2000	5.8000	0.00000	0.40000	0.40000	0.00579	mg/
		6.3000	6.4000	0.00000	-0.10000	-0.10000	0.00257	mg/
Al	308.215	2.1000	2.2000	0.00000	-0.10000	-0.10000	-0.01948	mg/
		2.4000	2.6000	0.00000	-0.20000	-0.20000	-0.04869	mg/
		2.2000	2.3000	0.00000	-0.10000	-0.10000	-0.01948	mg/
Ca	315.887	51.500	0.00000	43.800	7.7000	7.7000	0.16875	mg/
		47.800	0.00000	43.500	4.3000	4.3000	0.11627	mg/
		49.300	0.00000	42.400	6.9000	6.9000	0.15640	mg/
Cu	324.754	117.00	0.00000	99.000	18.000	18.000	0.00800	mg/
		115.00	0.00000	98.000	17.000	17.000	0.00723	mg/
		109.00	0.00000	103.00	6.0000	6.0000	-0.00129	mg/
Ag	328.068	172.00	0.00000	162.90	9.1000	9.1000	0.00324	mg/
		167.70	0.00000	162.30	5.4000	5.4000	0.00036	mg/
		169.60	0.00000	160.50	9.1000	9.1000	0.00324	mg/
Ti	334.941	59.000	0.00000	54.000	5.0000	5.0000	0.00055	mg/
		57.000	0.00000	54.000	3.0000	3.0000	-0.00109	mg/
		59.000	0.00000	55.000	4.0000	4.0000	-0.00027	mg/
Y	371.030	430.00	0.00000	440.00	-10.000	-10.000	0.00000	mg/
		430.00	0.00000	430.00	0.00000	0.00000	0.00074	mg/
		430.00	0.00000	440.00	-10.000	-10.000	0.00000	mg/
Mg	383.826	302.00	302.00	0.00000	0.00000	0.00000	0.03976	mg/
		304.00	299.00	0.00000	5.0000	5.0000	0.05506	mg/
		301.00	308.00	0.00000	-7.0000	-7.0000	0.01835	mg/
Ca	393.366	2940.0	0.00000	130.00	2810.0	2810.0	0.16278	mg/
		3070.0	0.00000	140.00	2930.0	2930.0	0.17102	mg/
		2920.0	0.00000	140.00	2780.0	2780.0	0.16072	mg/
Al	396.152	75.900	0.00000	64.400	11.500	11.500	0.06074	mg/
		70.900	0.00000	65.300	5.6000	5.6000	0.02165	mg/
		75.300	0.00000	66.300	9.0000	9.0000	0.04417	mg/
Sr	421.552	220.00	210.00	0.00000	10.000	10.000	-0.00020	mg/
		230.00	200.00	0.00000	30.000	30.000	0.00099	mg/
		220.00	210.00	0.00000	10.000	10.000	-0.00020	mg/
Zn	481.053	101.30	0.00000	100.80	0.50000	0.50000	-0.07473	mg/
		103.00	0.00000	96.100	6.9000	6.9000	0.26690	mg/
		101.80	0.00000	100.70	1.1000	1.1000	-0.04270	mg/
Ba	493.409	390.00	360.00	0.00000	30.000	30.000	0.00180	mg/
		380.00	360.00	0.00000	20.000	20.000	0.00126	mg/
		380.00	350.00	0.00000	30.000	30.000	0.00180	mg/
Na	588.995	178.00	110.00	0.00000	68.000	68.000	0.37012	mg/
		177.00	106.00	0.00000	71.000	71.000	0.38201	mg/
		176.00	107.00	0.00000	69.000	69.000	0.37408	mg/
Li	670.784	15.700	0.00000	15.000	0.70000	0.70000	-0.00019	mg/
		15.600	0.00000	15.500	0.10000	0.10000	-0.00132	mg/
		15.700	0.00000	15.400	0.30000	0.30000	-0.00094	mg/
K	766.490	39.000	0.00000	27.200	11.800	11.800	0.31919	mg/
		40.700	0.00000	27.900	12.800	12.800	0.34786	mg/
		41.000	0.00000	25.900	15.100	15.100	0.41380	mg/
K	769.896	64.000	0.00000	45.100	18.900	18.900	0.50060	mg/
		64.600	0.00000	49.000	15.600	15.600	0.41226	mg/
		64.900	0.00000	49.200	15.700	15.700	0.41494	mg/

----- 11:14:25 7/ 7/99 ----- Method: JYSED5

Sample DIGEST BLK1-RUN 1111-

Sn	189.989	0.09012	mg/L	0.01787	20
Tl	190.864	-0.00932	mg/L	0.04587	490
Tl	190.883	0.04564	mg/L	0.00301	6.6
As	193.759	-0.03267	mg/L	0.02055	63
Se	196.090	0.01063	mg/L	0.02333	220
Mo	202.030	0.00740	mg/L	0.00513	69
Se	203.985	-0.04103	mg/L	0.03173	77
Cr	205.552	0.00000	mg/L	0.00330	+o***
Sb	206.833	0.00203	mg/L	0.00959	470
Zn	213.856	0.02007	mg/L	0.00474	24
Sb	217.581	-0.01077	mg/L	0.00623	58
Pb	220.353	0.00432	mg/L	0.00808	190
Co	228.616	-0.00243	mg/L	0.00808	330
Cd	228.802	0.00062	mg/L	0.00286	460
Ni	231.604	0.00302	mg/L	0.00831	280
Be	234.861	0.00000	mg/L	0.00100	+o***
B	249.678	0.04671	mg/L	0.00082	1.7
Mn	257.610	-0.00036	mg/L	0.00108	300
Fe	259.940	0.01550	mg/L	0.00308	20
Fe	271.441	0.00000	mg/L	0.03357	+o***
Mg	279.553	0.05520	mg/L	0.00193	3.5
V	292.402	0.00472	mg/L	0.00186	39
Al	308.215	-0.02922	mg/L	0.01687	58
Ca	315.887	0.14714	mg/L	0.02744	19
Cu	324.754	0.00465	mg/L	0.00515	110
Ag	328.068	0.00228	mg/L	0.00166	73
Ti	334.941	-0.00027	mg/L	0.00082	300
Y	371.030	0.00025	mg/L	0.00043	170
Mg	383.826	0.03772	mg/L	0.01844	49
Ca	393.366	0.16484	mg/L	0.00545	3.3
Al	396.152	0.04219	mg/L	0.01962	47
Sr	421.552	0.00020	mg/L	0.00069	350
Zn	481.053	0.04982	mg/L	0.18868	380
Ba	493.409	0.00162	mg/L	0.00031	19
Na	588.995	0.37540	mg/L	0.00606	1.6
Li	670.784	-0.00082	mg/L	0.00058	70
K	766.490	0.36029	mg/L	0.04851	13
K	769.896	0.44260	mg/L	0.05025	11

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010779nm #Steps = 23.95

Measurements for LCS 0287 -RUN 1111- 6

Sn	189.989	11.500	0.00000	9.4000	2.1000	2.1000	0.10481	20.693	mg/
		10.300	0.00000	7.2000	3.1000	3.1000	0.13420	26.495	mg/
		10.800	0.00000	6.9000	3.9000	3.9000	0.15770	31.136	mg/
Tl	190.864	33.660	13.760	0.00000	19.900	19.900	0.63344	125.06	mg/
		33.780	13.140	0.00000	20.640	20.640	0.65750	129.81	mg/
		32.920	13.160	0.00000	19.760	19.760	0.62889	124.16	mg/
Tl	190.883	17.520	13.360	0.00000	4.1600	4.1600	0.30862	60.931	mg/
		17.460	12.580	0.00000	4.8800	4.8800	0.35556	70.199	mg/
		17.260	13.140	0.00000	4.1200	4.1200	0.30601	60.416	mg/
As	193.759	244.50	19.300	17.400	225.61	225.61	5.3936	1064.9	mg/
		249.52	19.420	18.280	230.34	230.34	5.5070	1087.3	mg/
		247.24	21.340	18.280	226.56	226.56	5.4163	1069.4	mg/
Se	196.090	12.680	0.00000	9.0800	3.6000	3.6000	0.28315	55.903	mg/
		11.260	0.00000	9.6000	1.6600	1.6600	0.14254	28.142	mg/
		11.080	0.00000	9.1000	1.9800	1.9800	0.16573	32.721	mg/
Mo	202.030	14.500	3.1000	0.00000	11.400	11.400	0.25453	50.253	mg/
		15.200	2.8000	0.00000	12.400	12.400	0.27673	54.636	mg/
		14.600	3.3000	0.00000	11.300	11.300	0.25231	49.815	mg/
Se	203.985	23.140	0.00000	16.060	7.0800	7.0800	0.45362	89.560	mg/
		24.120	0.00000	16.480	7.6400	7.6400	0.49235	97.206	mg/

		25.900	0.00000	2.2000	23.700	23.700	0.51077	100.84	mg/
		26.700	0.00000	2.3000	24.400	24.400	0.52590	103.83	mg/
Sb	206.833	93.460	0.00000	18.280	75.180	75.180	1.1956	236.05	mg/
		92.280	0.00000	18.260	74.020	74.020	1.1770	232.38	mg/
		91.000	0.00000	18.040	72.960	72.960	1.1600	229.02	mg/
Zn	213.856	59.400	0.00000	1.8000	57.600	57.600	1.0733	211.90	mg/
		58.900	0.00000	1.9000	57.000	57.000	1.0620	209.67	mg/
		61.700	0.00000	1.8000	59.900	59.900	1.1165	220.44	mg/
Sb	217.581	101.48	0.00000	26.620	74.860	74.860	1.1289	222.89	mg/
		103.20	0.00000	24.580	78.620	78.620	1.1863	234.21	mg/
		102.16	0.00000	25.880	76.280	76.280	1.1506	227.17	mg/
Pb	220.353	96.100	28.500	27.720	68.059	68.059	1.2033	237.57	mg/
		98.360	27.760	29.960	69.306	69.306	1.2252	241.90	mg/
		97.560	28.700	28.000	69.272	69.272	1.2246	241.78	mg/
Co	228.616	71.100	0.00000	5.5000	65.600	65.600	0.79415	156.79	mg/
		70.000	0.00000	5.6000	64.400	64.400	0.77959	153.92	mg/
		69.100	0.00000	5.5000	63.600	63.600	0.76988	152.00	mg/
Cd	228.802	17.400	0.00000	2.6000	14.800	14.800	0.27686	54.661	mg/
		18.500	0.00000	2.6000	15.900	15.900	0.29748	58.733	mg/
		17.800	0.00000	2.6000	15.200	15.200	0.28436	56.142	mg/
Ni	231.604	28.700	0.00000	7.1000	21.600	21.600	0.32631	64.425	mg/
		28.300	0.00000	6.9000	21.400	21.400	0.32329	63.829	mg/
		26.900	0.00000	7.4000	19.500	19.500	0.29464	58.171	mg/
Be	234.861	114.00	0.00000	10.000	104.00	104.00	0.10417	20.567	mg/
		114.00	0.00000	11.000	103.00	103.00	0.10317	20.370	mg/
		116.00	0.00000	11.000	105.00	105.00	0.10518	20.765	mg/
B	249.678	88.800	0.00000	14.500	74.300	74.300	0.14612	28.849	mg/
		89.700	0.00000	15.000	74.700	74.700	0.14698	29.019	mg/
		89.800	0.00000	14.700	75.100	75.100	0.14785	29.190	mg/
Mn	257.610	1011.0	0.00000	15.000	996.00	996.00	1.0743	212.10	mg/
		978.00	0.00000	15.000	963.00	963.00	1.0387	205.07	mg/
		1019.0	0.00000	15.000	1004.0	1004.0	1.0829	213.81	mg/
Fe	259.940	9508.1	0.00000	8.0000	9500.1	9500.1	110.47	21810	mg/
		9581.4	0.00000	7.6000	9573.8	9573.8	111.32	21979	mg/
		9745.8	0.00000	8.2000	9737.6	9737.6	113.23	22355	mg/
Fe	271.441	197.40	2.7000	0.00000	194.70	194.70	113.18	22346	mg/
		196.00	2.6000	0.00000	193.40	193.40	112.43	22197	mg/
		194.60	2.8000	0.00000	191.80	191.80	111.50	22013	mg/
Mg	279.553	226040	0.00000	350.00	225690	225690	208.81	41225	mg/
		229230	0.00000	350.00	228880	228880	211.76	41808	mg/
		230750	0.00000	360.00	230390	230390	213.15	42084	mg/
V	292.402	62.300	13.500	0.00000	48.800	48.800	0.31713	62.612	mg/
		60.900	12.500	0.00000	48.400	48.400	0.31456	62.104	mg/
		61.700	11.200	0.00000	50.500	50.500	0.32807	64.771	mg/
Al	308.215	7.7000	2.9000	0.00000	4.8000	4.8000	1.4121	278.81	mg/
		8.1000	2.6000	0.00000	5.5000	5.5000	1.6167	319.19	mg/
		8.8000	2.9000	0.00000	5.9000	5.9000	1.7335	342.26	mg/
Ca	315.887	63615	0.00000	177.00	63438	63438	979.16	193320	mg/
		64430	0.00000	181.00	64249	64249	991.68	195790	mg/
		62431	0.00000	177.00	62254	62254	960.89	189710	mg/
Cu	324.754	44177	0.00000	195.00	43982	43982	34.046	6721.7	mg/
		43236	0.00000	192.00	43044	43044	33.319	6578.3	mg/
		42557	0.00000	188.00	42369	42369	32.797	6475.2	mg/
Ag	328.068	324.60	0.00000	170.30	154.30	154.30	0.11605	22.911	mg/
		324.10	0.00000	169.70	154.40	154.40	0.11612	22.927	mg/
		321.80	0.00000	170.70	151.10	151.10	0.11356	22.420	mg/
Ti	334.941	179.00	0.00000	100.00	79.000	79.000	0.06112	12.067	mg/
		177.00	0.00000	100.00	77.000	77.000	0.05948	11.743	mg/
		189.00	0.00000	100.00	89.000	89.000	0.06930	13.683	mg/
Y	371.030	780.00	0.00000	490.00	290.00	290.00	0.02218	4.3798	mg/
		790.00	0.00000	500.00	290.00	290.00	0.02218	4.3798	mg/
		790.00	0.00000	480.00	310.00	310.00	0.02366	4.6718	mg/
Mg	383.826	196600	851.00	0.00000	195750	195750	598.77	118220	mg/
		197580	960.00	0.00000	196620	196620	601.43	118740	mg/

		+o******	0.00000	6690.0	+o******	+o******	81.930	16176	mg/>
		+o******	0.00000	6520.0	+o******	+o******	81.941	16178	mg/>
Al	396.152	482.40	0.00000	270.80	211.60	211.60	1.3866	273.77	mg/
		495.00	0.00000	279.70	215.30	215.30	1.4111	278.61	mg/
		473.20	0.00000	269.10	204.10	204.10	1.3369	263.96	mg/
Sr	421.552	4910.0	240.00	0.00000	4670.0	4670.0	0.27665	54.620	mg/
		4880.0	240.00	0.00000	4640.0	4640.0	0.27487	54.268	mg/
		4770.0	240.00	0.00000	4530.0	4530.0	0.26833	52.978	mg/
Zn	481.053	120.70	0.00000	98.200	22.500	22.500	1.0996	217.10	mg/
		115.70	0.00000	96.000	19.700	19.700	0.95016	187.59	mg/
		113.60	0.00000	97.300	16.300	16.300	0.76867	151.76	mg/
Ba	493.409	840.00	350.00	0.00000	490.00	490.00	0.02669	5.2689	mg/
		830.00	350.00	0.00000	480.00	480.00	0.02615	5.1621	mg/
		830.00	350.00	0.00000	480.00	480.00	0.02615	5.1621	mg/
Na	588.995	253.00	104.00	0.00000	149.00	149.00	0.69132	136.49	mg/
		256.00	102.00	0.00000	154.00	154.00	0.71115	140.40	mg/
		257.00	100.00	0.00000	157.00	157.00	0.72305	142.75	mg/
Li	670.784	16.100	0.00000	15.200	0.90000	0.90000	0.00019	0.03728	mg/
		15.900	0.00000	15.100	0.80000	0.80000	0.00000	0.00000	mg/
		15.900	0.00000	15.000	0.90000	0.90000	0.00019	0.03728	mg/
K	766.490	45.600	0.00000	25.600	20.000	20.000	0.55429	109.43	mg/
		46.100	0.00000	26.100	20.000	20.000	0.55429	109.43	mg/
		46.500	0.00000	27.100	19.400	19.400	0.53708	106.04	mg/
K	769.896	63.000	0.00000	47.300	15.700	15.700	0.41494	81.923	mg/
		70.500	0.00000	44.700	25.800	25.800	0.68532	135.30	mg/
		70.800	0.00000	47.600	23.200	23.200	0.61571	121.56	mg/

----- 11:22:24 7/ 7/99 ----- Method: JYSED5

Sample LCS 0287 -RUN 1111- 6

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.13224	26.108 mg/L	5.2323	20
Tl	190.864	0.63994	126.35 mg/L	3.0358	2.4
Tl	190.883	0.32339	63.849 mg/L	5.5058	8.6
As	193.759	5.4389	1073.8 mg/L	11.849	1.1
Se	196.090	0.19714	38.922 mg/L	14.883	38
Mo	202.030	0.26119	51.568 mg/L	2.6658	5.2
Se	203.985	0.48635	96.023 mg/L	5.9593	6.2
Cr	205.552	0.50933	100.56 mg/L	3.4225	3.4
Sb	206.833	1.1775	232.48 mg/L	3.5137	1.5
Zn	213.856	1.0839	214.00 mg/L	5.6874	2.7
Sb	217.581	1.1553	228.09 mg/L	5.7148	2.5
Pb	220.353	1.2177	240.41 mg/L	2.4680	1.0
Co	228.616	0.78121	154.24 mg/L	2.4109	1.6
Cd	228.802	0.28623	56.512 mg/L	2.0610	3.6
Ni	231.604	0.31475	62.142 mg/L	3.4516	5.5
Be	234.861	0.10417	20.567 mg/L	0.19776	0.96
B	249.678	0.14698	29.019 mg/L	0.17079	0.59
Mn	257.610	1.0653	210.33 mg/L	4.6344	2.2
Fe	259.940	111.67	22048 mg/L	279.09	1.3
Fe	271.441	112.37	22186 mg/L	166.75	0.75
Mg	279.553	211.24	41706 mg/L	438.31	1.0
V	292.402	0.31992	63.162 mg/L	1.4161	2.2
Al	308.215	1.5875	313.42 mg/L	32.117	10
Ca	315.887	977.24	192940 mg/L	3057.3	1.6
Cu	324.754	33.387	6591.7 mg/L	123.82	1.9
Ag	328.068	0.11524	22.753 mg/L	0.28792	1.3
Ti	334.941	0.06330	12.497 mg/L	1.0390	8.3
Y	371.030	0.02268	4.4772 mg/L	0.16858	3.8
Mg	383.826	599.09	118280 mg/L	435.19	0.37
Ca >	393.366	+o********	+o******** mg/L	1.1691	0.01

Zn	481.053	0.93948	185.48 mg/L	32.722	18
Ba	493.409	0.02633	5.1977 mg/L	0.06166	1.2
Na	588.995	0.70851	139.88 mg/L	3.1642	2.3
Li	670.784	0.00013	0.02485 mg/L	0.02152	87
K	766.490	0.54855	108.30 mg/L	1.9608	1.8
K	769.896	0.57199	112.93 mg/L	27.718	25

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010741nm #Steps = 23.86

Measurements for 99IE19S01-990086- 7

Sn	189.989	13.800	0.00000	9.3000	4.5000	4.5000	0.17534	35.039	mg/
		10.800	0.00000	9.4000	1.4000	1.4000	0.08424	16.834	mg/
		13.200	0.00000	8.8000	4.4000	4.4000	0.17240	34.452	mg/
Tl	190.864	48.420	12.900	0.00000	35.520	35.520	1.1414	228.09	mg/
		47.320	13.980	0.00000	33.340	33.340	1.0705	213.92	mg/
		47.500	13.060	0.00000	34.440	34.440	1.1062	221.07	mg/
Tl	190.883	14.360	14.100	0.00000	0.26000	0.26000	0.05433	10.858	mg/
		16.000	13.100	0.00000	2.9000	2.9000	0.22646	45.256	mg/
		16.080	13.580	0.00000	2.5000	2.5000	0.20038	40.044	mg/
As	193.759	34.100	29.280	22.080	6.3629	6.3629	0.14399	28.776	mg/
		31.140	30.060	21.700	2.8714	2.8714	0.06040	12.069	mg/
		32.840	27.860	21.580	6.3257	6.3257	0.14311	28.598	mg/
Se	196.090	7.7600	0.00000	7.9800	-0.22000	-0.22000	0.00628	1.2553	mg/
		7.3800	0.00000	7.4600	-0.08000	-0.08000	0.01643	3.2830	mg/
		7.4600	0.00000	7.7000	-0.24000	-0.24000	0.00483	0.96560	mg/
Mo	202.030	3.6000	3.7000	0.00000	-0.10000	-0.10000	-0.00074	-0.14787	mg/
		3.3000	3.8000	0.00000	-0.50000	-0.50000	-0.00962	-1.9222	mg/
		3.8000	4.0000	0.00000	-0.20000	-0.20000	-0.00296	-0.59146	mg/
Se	203.985	18.180	0.00000	18.420	-0.24000	-0.24000	-0.05255	-10.502	mg/
		18.200	0.00000	18.980	-0.78000	-0.78000	-0.08989	-17.965	mg/
		18.180	0.00000	19.440	-1.2600	-1.2600	-0.12309	-24.598	mg/
Cr	205.552	4.9000	0.00000	2.6000	2.3000	2.3000	0.04827	9.6458	mg/
		4.8000	0.00000	2.4000	2.4000	2.4000	0.05043	10.078	mg/
		4.9000	0.00000	2.7000	2.2000	2.2000	0.04611	9.2139	mg/
Sb	206.833	21.240	0.00000	20.960	0.28000	0.28000	-0.00492	-0.98226	mg/
		20.700	0.00000	20.520	0.18000	0.18000	-0.00652	-1.3026	mg/
		19.960	0.00000	20.760	-0.80000	-0.80000	-0.02223	-4.4415	mg/
Zn	213.856	88.600	0.00000	2.0000	86.600	86.600	1.6190	323.54	mg/
		88.400	0.00000	2.0000	86.400	86.400	1.6152	322.79	mg/
		88.600	0.00000	1.7000	86.900	86.900	1.6246	324.67	mg/
Sb	217.581	23.320	0.00000	25.440	-2.1200	-2.1200	-0.04462	-8.9164	mg/
		23.340	0.00000	26.920	-3.5800	-3.5800	-0.06688	-13.364	mg/
		22.900	0.00000	26.360	-3.4600	-3.4600	-0.06505	-12.999	mg/
Pb	220.353	46.040	24.500	26.840	20.164	20.164	0.36042	72.026	mg/
		46.600	26.100	26.920	20.018	20.018	0.35785	71.513	mg/
		47.020	25.020	25.420	21.765	21.765	0.38859	77.657	mg/
Co	228.616	7.2000	0.00000	5.0000	2.2000	2.2000	0.02507	5.0099	mg/
		7.9000	0.00000	5.2000	2.7000	2.7000	0.03114	6.2220	mg/
		7.9000	0.00000	5.3000	2.6000	2.6000	0.02992	5.9796	mg/
Cd	228.802	3.4000	0.00000	2.5000	0.90000	0.90000	0.01625	3.2472	mg/
		3.2000	0.00000	2.3000	0.90000	0.90000	0.01625	3.2472	mg/
		3.1000	0.00000	2.4000	0.70000	0.70000	0.01250	2.4978	mg/
Ni	231.604	13.300	0.00000	6.4000	6.9000	6.9000	0.10458	20.899	mg/
		13.700	0.00000	5.9000	7.8000	7.8000	0.11816	23.612	mg/
		13.000	0.00000	6.7000	6.3000	6.3000	0.09553	19.091	mg/
Be	234.861	16.000	0.00000	12.000	4.0000	4.0000	0.00401	0.80070	mg/
		16.000	0.00000	12.000	4.0000	4.0000	0.00401	0.80070	mg/
		16.000	0.00000	12.000	4.0000	4.0000	0.00401	0.80070	mg/
B	249.678	141.00	0.00000	14.400	126.60	126.60	0.25922	51.803	mg/
		154.20	0.00000	14.100	140.10	140.10	0.28842	57.637	mg/
		144.30	0.00000	15.700	128.60	128.60	0.26355	52.667	mg/
Mn	257.610	2307.0	0.00000	15.000	2292.0	2292.0	2.4741	494.42	mg/

Fe	259.940	23685	0.00000	19.000	23666	23666	275.19	54994	mg/
		23777	0.00000	20.000	23757	23757	276.25	55206	mg/
		24298	0.00000	19.000	24279	24279	282.32	56419	mg/
Fe	271.441	487.70	2.7000	0.00000	485.00	485.00	281.97	56349	mg/
		507.10	2.5000	0.00000	504.60	504.60	293.37	58626	mg/
		514.60	2.4000	0.00000	512.20	512.20	297.79	59510	mg/
Mg	279.553	25282	0.00000	18.000	25264	25264	23.370	4670.2	mg/
		24869	0.00000	19.000	24850	24850	22.987	4593.7	mg/
		25462	0.00000	19.000	25443	25443	23.536	4703.3	mg/
V	292.402	24.600	16.800	0.00000	7.8000	7.8000	0.05339	10.670	mg/
		24.300	17.100	0.00000	7.2000	7.2000	0.04953	9.8984	mg/
		23.400	15.900	0.00000	7.5000	7.5000	0.05146	10.284	mg/
Al	308.215	109.80	2.9000	0.00000	106.90	106.90	31.243	6243.5	mg/
		110.40	3.1000	0.00000	107.30	107.30	31.360	6266.9	mg/
		106.20	2.8000	0.00000	103.40	103.40	30.220	6039.2	mg/
Ca	315.887	5204.7	0.00000	55.500	5149.2	5149.2	79.523	15892	mg/
		5130.2	0.00000	55.600	5074.6	5074.6	78.372	15662	mg/
		5122.4	0.00000	55.300	5067.1	5067.1	78.256	15639	mg/
Cu	324.754	295.00	0.00000	172.00	123.00	123.00	0.08929	17.844	mg/
		287.00	0.00000	170.00	117.00	117.00	0.08465	16.916	mg/
		289.00	0.00000	169.00	120.00	120.00	0.08697	17.380	mg/
Ag	328.068	178.70	0.00000	175.80	2.9000	2.9000	-0.00158	-0.31570	mg/
		184.00	0.00000	178.20	5.8000	5.8000	0.00067	0.13456	mg/
		175.50	0.00000	175.00	0.50000	0.50000	-0.00344	-0.68832	mg/
Ti	334.941	1037.0	0.00000	60.000	977.00	977.00	0.79616	159.10	mg/
		1074.0	0.00000	62.000	1012.0	1012.0	0.82481	164.83	mg/
		1040.0	0.00000	64.000	976.00	976.00	0.79534	158.94	mg/
Y	371.030	970.00	0.00000	470.00	500.00	500.00	0.03771	7.5365	mg/
		940.00	0.00000	470.00	470.00	470.00	0.03549	7.0932	mg/
		940.00	0.00000	490.00	450.00	450.00	0.03402	6.7976	mg/
Mg	383.826	7751.0	333.00	0.00000	7418.0	7418.0	22.729	4542.2	mg/
		7636.0	341.00	0.00000	7295.0	7295.0	22.353	4467.0	mg/
		7790.0	336.00	0.00000	7454.0	7454.0	22.839	4564.2	mg/
Ca	393.366	+o******	0.00000	740.00	+o******	+o******	82.338	16455	mg/>
		+o******	0.00000	760.00	+o******	+o******	70.570	14103	mg/>
		+o******	0.00000	750.00	+o******	+o******	71.581	14305	mg/>
Al	396.152	4452.3	0.00000	103.30	4349.0	4349.0	28.802	5755.7	mg/
		4600.8	0.00000	101.30	4499.5	4499.5	29.799	5955.0	mg/
		4495.1	0.00000	100.90	4394.2	4394.2	29.101	5815.6	mg/
Sr	421.552	4750.0	240.00	0.00000	4510.0	4510.0	0.26714	53.386	mg/
		4830.0	230.00	0.00000	4600.0	4600.0	0.27249	54.455	mg/
		4990.0	240.00	0.00000	4750.0	4750.0	0.28140	56.236	mg/
Zn	481.053	131.30	0.00000	108.20	23.100	23.100	1.1316	226.15	mg/
		134.10	0.00000	101.30	32.800	32.800	1.6494	329.62	mg/
		132.40	0.00000	103.90	28.500	28.500	1.4199	283.75	mg/
Ba	493.409	34050	390.00	0.00000	33660	33660	1.8210	363.91	mg/
		33180	390.00	0.00000	32790	32790	1.7740	354.51	mg/
		34290	390.00	0.00000	33900	33900	1.8340	366.51	mg/
Na	588.995	419.00	111.00	0.00000	308.00	308.00	1.3218	264.16	mg/
		408.00	111.00	0.00000	297.00	297.00	1.2782	255.44	mg/
		412.00	105.00	0.00000	307.00	307.00	1.3179	263.36	mg/
Li	670.784	32.600	0.00000	15.400	17.200	17.200	0.03096	6.1877	mg/
		33.200	0.00000	15.800	17.400	17.400	0.03134	6.2632	mg/
		33.500	0.00000	15.000	18.500	18.500	0.03342	6.6782	mg/
K	766.490	192.90	0.00000	26.300	166.60	166.60	4.7573	950.70	mg/
		197.50	0.00000	25.900	171.60	171.60	4.9007	979.35	mg/
		194.60	0.00000	27.800	166.80	166.80	4.7630	951.85	mg/
K	769.896	226.00	0.00000	48.300	177.70	177.70	4.7517	949.58	mg/
		222.10	0.00000	48.800	173.30	173.30	4.6339	926.04	mg/
		230.00	0.00000	49.300	180.70	180.70	4.8320	965.63	mg/

----- 11:30:26 7/ 7/99 ----- Method: JYSED5

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.14399	28.775 mg/L	10.345	36
Tl	190.864	1.1060	221.03 mg/L	7.0832	3.2
Tl	190.883	0.16039	32.053 mg/L	18.539	58
As	193.759	0.11583	23.148 mg/L	9.5945	41
Se	196.090	0.00918	1.8346 mg/L	1.2627	69
Mo	202.030	-0.00444	-0.88719 mg/L	0.92342	100
Se	203.985	-0.08851	-17.688 mg/L	7.0517	40
Cr	205.552	0.04827	9.6458 mg/L	0.43190	4.5
Sb	206.833	-0.01122	-2.2421 mg/L	1.9115	85
Zn	213.856	1.6196	323.67 mg/L	0.94641	0.29
Sb	217.581	-0.05885	-11.760 mg/L	2.4693	21
Pb	220.353	0.36895	73.732 mg/L	3.4088	4.6
Co	228.616	0.02871	5.7372 mg/L	0.64137	11
Cd	228.802	0.01500	2.9974 mg/L	0.43264	14
Ni	231.604	0.10609	21.201 mg/L	2.2758	11
Be	234.861	0.00401	0.80070 mg/L	0.00000	0.00
B	249.678	0.27039	54.036 mg/L	3.1487	5.8
Mn	257.610	2.5011	499.82 mg/L	7.8981	1.6
Fe	259.940	277.92	55540 mg/L	768.70	1.4
Fe	271.441	291.04	58162 mg/L	1630.7	2.8
Mg	279.553	23.297	4655.8 mg/L	56.238	1.2
V	292.402	0.05146	10.284 mg/L	0.38565	3.7
Al	308.215	30.941	6183.2 mg/L	125.27	2.0
Ca	315.887	78.717	15731 mg/L	140.00	0.89
Cu	324.754	0.08697	17.380 mg/L	0.46416	2.7
Ag	328.068	-0.00145	-0.28982 mg/L	0.41205	140
Ti	334.941	0.80544	160.96 mg/L	3.3536	2.1
Y	371.030	0.03574	7.1424 mg/L	0.37189	5.2
Mg	383.826	22.640	4524.4 mg/L	50.961	1.1
Ca >	393.366	+o********	+o******** mg/L	1303.5	8.7
Al	396.152	29.234	5842.1 mg/L	102.26	1.7
Sr	421.552	0.27368	54.692 mg/L	1.4394	2.6
Zn	481.053	1.4003	279.84 mg/L	51.848	19
Ba	493.409	1.8097	361.64 mg/L	6.3136	1.7
Na	588.995	1.3060	260.99 mg/L	4.8204	1.8
Li	670.784	0.03191	6.3763 mg/L	0.26411	4.1
K	766.490	4.8070	960.63 mg/L	16.219	1.7
K	769.896	4.7392	947.09 mg/L	19.912	2.1

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011037nm #Steps = 24.52

Measurements for 99IE19S01 D-990086- 8

Sn	189.989	14.500	0.00000	9.1000	5.4000	5.4000	0.20178	38.209	mg/
		12.700	0.00000	7.5000	5.2000	5.2000	0.19591	37.096	mg/
		13.200	0.00000	9.1000	4.1000	4.1000	0.16358	30.975	mg/
Tl	190.864	48.700	15.240	0.00000	33.460	33.460	1.0744	203.44	mg/
		49.180	13.600	0.00000	35.580	35.580	1.1433	216.50	mg/
		51.020	14.320	0.00000	36.700	36.700	1.1797	223.39	mg/
Tl	190.883	17.520	15.360	0.00000	2.1600	2.1600	0.17821	33.746	mg/
		16.080	12.640	0.00000	3.4400	3.4400	0.26167	49.549	mg/
		15.140	14.560	0.00000	0.58000	0.58000	0.07520	14.239	mg/
As	193.759	33.900	28.360	22.240	6.8514	6.8514	0.15569	29.482	mg/
		31.740	29.660	22.180	3.6829	3.6829	0.07982	15.115	mg/
		31.780	29.940	22.480	3.4386	3.4386	0.07398	14.008	mg/
Se	196.090	7.5800	0.00000	7.6800	-0.10000	-0.10000	0.01498	2.8363	mg/
		7.3200	0.00000	7.4600	-0.14000	-0.14000	0.01208	2.2874	mg/
		7.8200	0.00000	7.6600	0.16000	0.16000	0.03382	6.4046	mg/
Mo	202.030	3.5000	3.9000	0.00000	-0.40000	-0.40000	-0.00740	-1.4011	mg/
		3.8000	4.0000	0.00000	-0.20000	-0.20000	-0.00296	-0.56044	mg/
		3.7000	3.3000	0.00000	0.40000	0.40000	0.01036	1.9615	mg/

		18.120	0.00000	18.040	0.08000	0.08000	-0.03043	-5.7614	mg/
Cr	205.552	4.8000	0.00000	2.4000	2.4000	2.4000	0.05043	9.5491	mg/
		4.8000	0.00000	2.6000	2.2000	2.2000	0.04611	8.7306	mg/
		5.0000	0.00000	2.6000	2.4000	2.4000	0.05043	9.5491	mg/
Sb	206.833	21.420	0.00000	21.040	0.38000	0.38000	-0.00331	-0.62723	mg/
		21.460	0.00000	20.080	1.3800	1.3800	0.01272	2.4078	mg/
		21.600	0.00000	20.540	1.0600	1.0600	0.00759	1.4366	mg/
Zn	213.856	97.200	0.00000	1.8000	95.400	95.400	1.7846	337.93	mg/
		94.200	0.00000	1.9000	92.300	92.300	1.7263	326.88	mg/
		97.100	0.00000	1.8000	95.300	95.300	1.7827	337.57	mg/
Sb	217.581	23.660	0.00000	26.160	-2.5000	-2.5000	-0.05041	-9.5456	mg/
		23.900	0.00000	27.380	-3.4800	-3.4800	-0.06535	-12.375	mg/
		24.320	0.00000	27.160	-2.8400	-2.8400	-0.05559	-10.527	mg/
Pb	220.353	48.660	25.660	25.660	23.000	23.000	0.41033	77.700	mg/
		47.940	25.720	27.540	21.149	21.149	0.37777	71.533	mg/
		48.280	25.500	28.320	21.121	21.121	0.37727	71.439	mg/
Co	228.616	8.1000	0.00000	5.5000	2.6000	2.6000	0.02992	5.6660	mg/
		8.1000	0.00000	5.5000	2.6000	2.6000	0.02992	5.6660	mg/
		7.9000	0.00000	4.9000	3.0000	3.0000	0.03477	6.5848	mg/
Cd	228.802	3.4000	0.00000	2.5000	0.90000	0.90000	0.01625	3.0769	mg/
		3.4000	0.00000	2.4000	1.0000	1.0000	0.01812	3.4319	mg/
		3.5000	0.00000	2.4000	1.1000	1.1000	0.02000	3.7869	mg/
Ni	231.604	13.900	0.00000	6.4000	7.5000	7.5000	0.11363	21.517	mg/
		13.900	0.00000	6.5000	7.4000	7.4000	0.11212	21.231	mg/
		14.300	0.00000	6.6000	7.7000	7.7000	0.11665	22.088	mg/
Be	234.861	16.000	0.00000	12.000	4.0000	4.0000	0.00401	0.75870	mg/
		17.000	0.00000	13.000	4.0000	4.0000	0.00401	0.75870	mg/
		16.000	0.00000	12.000	4.0000	4.0000	0.00401	0.75870	mg/
B	249.678	159.80	0.00000	14.400	145.40	145.40	0.29988	56.784	mg/
		168.40	0.00000	15.500	152.90	152.90	0.31610	59.856	mg/
		167.20	0.00000	15.200	152.00	152.00	0.31415	59.487	mg/
Mn	257.610	2504.0	0.00000	15.000	2489.0	2489.0	2.6868	508.78	mg/
		2490.0	0.00000	15.000	2475.0	2475.0	2.6717	505.91	mg/
		2471.0	0.00000	15.000	2456.0	2456.0	2.6512	502.03	mg/
Fe	259.940	24821	0.00000	21.000	24800	24800	288.38	54607	mg/
		24044	0.00000	20.000	24024	24024	279.36	52898	mg/
		25136	0.00000	20.000	25116	25116	292.05	55303	mg/
Fe	271.441	543.50	2.5000	0.00000	541.00	541.00	314.53	59559	mg/
		531.80	2.7000	0.00000	529.10	529.10	307.61	58249	mg/
		529.80	2.6000	0.00000	527.20	527.20	306.51	58040	mg/
Mg	279.553	26920	0.00000	20.000	26900	26900	24.884	4711.9	mg/
		26748	0.00000	18.000	26730	26730	24.726	4682.1	mg/
		26634	0.00000	19.000	26615	26615	24.620	4662.0	mg/
V	292.402	25.000	18.000	0.00000	7.0000	7.0000	0.04824	9.1356	mg/
		23.700	17.400	0.00000	6.3000	6.3000	0.04374	8.2829	mg/
		23.500	18.400	0.00000	5.1000	5.1000	0.03602	6.8212	mg/
Al	308.215	114.00	3.2000	0.00000	110.80	110.80	32.382	6131.8	mg/
		106.00	2.1000	0.00000	103.90	103.90	30.366	5750.1	mg/
		106.80	2.7000	0.00000	104.10	104.10	30.425	5761.1	mg/
Ca	315.887	5845.1	0.00000	54.900	5790.2	5790.2	89.417	16932	mg/
		5727.2	0.00000	54.800	5672.4	5672.4	87.599	16587	mg/
		5456.1	0.00000	55.400	5400.7	5400.7	83.405	15793	mg/
Cu	324.754	303.00	0.00000	173.00	130.00	130.00	0.09471	17.935	mg/
		308.00	0.00000	176.00	132.00	132.00	0.09626	18.228	mg/
		306.00	0.00000	177.00	129.00	129.00	0.09394	17.788	mg/
Ag	328.068	173.90	0.00000	177.70	-3.8000	-3.8000	-0.00679	-1.2848	mg/
		174.60	0.00000	174.60	0.00000	0.00000	-0.00383	-0.72577	mg/
		173.90	0.00000	169.50	4.4000	4.4000	-0.00041	-0.07846	mg/
Ti	334.941	1141.0	0.00000	62.000	1079.0	1079.0	0.87965	166.57	mg/
		1151.0	0.00000	61.000	1090.0	1090.0	0.88865	168.27	mg/
		1102.0	0.00000	61.000	1041.0	1041.0	0.84854	160.68	mg/
Y	371.030	990.00	0.00000	470.00	520.00	520.00	0.03919	7.4212	mg/
		990.00	0.00000	480.00	510.00	510.00	0.03845	7.2812	mg/
		990.00	0.00000	480.00	510.00	510.00	0.03845	7.2812	mg/

		8089.0	343.00	0.00000	7746.0	7746.0	23.732	4493.9	mg/
Ca	393.366	+o******	0.00000	790.00	+o******	+o******	82.335	15591	mg/>
		+o******	0.00000	790.00	+o******	+o******	73.146	13851	mg/>
		+o******	0.00000	800.00	+o******	+o******	73.800	13975	mg/>
Al	396.152	4499.9	0.00000	103.40	4396.5	4396.5	29.117	5513.4	mg/
		4644.3	0.00000	101.90	4542.4	4542.4	30.083	5696.5	mg/
		4612.5	0.00000	103.10	4509.4	4509.4	29.865	5655.1	mg/
Sr	421.552	5340.0	240.00	0.00000	5100.0	5100.0	0.30220	57.223	mg/
		4940.0	240.00	0.00000	4700.0	4700.0	0.27843	52.723	mg/
		4990.0	240.00	0.00000	4750.0	4750.0	0.28140	53.286	mg/
Zn	481.053	131.10	0.00000	104.10	27.000	27.000	1.3398	253.71	mg/
		135.70	0.00000	104.30	31.400	31.400	1.5747	298.18	mg/
		134.40	0.00000	101.60	32.800	32.800	1.6494	312.33	mg/
Ba	493.409	36820	390.00	0.00000	36430	36430	1.9709	373.20	mg/
		36060	390.00	0.00000	35670	35670	1.9297	365.41	mg/
		35890	380.00	0.00000	35510	35510	1.9211	363.77	mg/
Na	588.995	439.00	113.00	0.00000	326.00	326.00	1.3932	263.82	mg/
		439.00	113.00	0.00000	326.00	326.00	1.3932	263.82	mg/
		440.00	117.00	0.00000	323.00	323.00	1.3813	261.57	mg/
Li	670.784	33.700	0.00000	15.500	18.200	18.200	0.03285	6.2206	mg/
		34.200	0.00000	15.100	19.100	19.100	0.03455	6.5424	mg/
		34.100	0.00000	15.600	18.500	18.500	0.03342	6.3279	mg/
K	766.490	211.40	0.00000	26.900	184.50	184.50	5.2705	998.01	mg/
		213.70	0.00000	27.200	186.50	186.50	5.3278	1008.9	mg/
		209.60	0.00000	26.800	182.80	182.80	5.2218	988.78	mg/
K	769.896	244.10	0.00000	50.400	193.70	193.70	5.1800	980.88	mg/
		244.00	0.00000	50.000	194.00	194.00	5.1881	982.40	mg/
		234.20	0.00000	50.100	184.10	184.10	4.9230	932.22	mg/

----- 11:38:24 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S01 D-990086- 8

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.18709	35.427 mg/L	3.8951	11
Tl	190.864	1.1325	214.44 mg/L	10.132	4.7
Tl	190.883	0.17169	32.512 mg/L	17.687	54
As	193.759	0.10316	19.535 mg/L	8.6319	44
Se	196.090	0.02029	3.8428 mg/L	2.2355	58
Mo	202.030	0.00000	0.00000 mg/L	1.7500	+o***
Se	203.985	-0.09358	-17.721 mg/L	13.573	77
Cr	205.552	0.04899	9.2762 mg/L	0.47256	5.1
Sb	206.833	0.00566	1.0724 mg/L	1.5499	150
Zn	213.856	1.7645	334.13 mg/L	6.2773	1.9
Sb	217.581	-0.05712	-10.816 mg/L	1.4364	13
Pb	220.353	0.38846	73.557 mg/L	3.5878	4.9
Co	228.616	0.03154	5.9722 mg/L	0.53047	8.9
Cd	228.802	0.01812	3.4319 mg/L	0.35502	10
Ni	231.604	0.11413	21.612 mg/L	0.43630	2.0
Be	234.861	0.00401	0.75870 mg/L	0.00000	0.00
B	249.678	0.31004	58.709 mg/L	1.6770	2.9
Mn	257.610	2.6699	505.57 mg/L	3.3875	0.67
Fe	259.940	286.60	54269 mg/L	1237.3	2.3
Fe	271.441	309.55	58616 mg/L	823.48	1.4
Mg	279.553	24.743	4685.3 mg/L	25.120	0.54
V	292.402	0.04267	8.0799 mg/L	1.1704	14
Al	308.215	31.058	5881.0 mg/L	217.27	3.7
Ca	315.887	86.807	16438 mg/L	583.79	3.5
Cu	324.754	0.09497	17.983 mg/L	0.22394	1.2
Ag	328.068	-0.00368	-0.69635 mg/L	0.60371	87
Ti	334.941	0.87228	165.17 mg/L	3.9849	2.4
Y	371.030	0.03870	7.3279 mg/L	0.08084	1.1

Al	396.152	29.688	5621.7 mg/L	95.998	1.7
Sr	421.552	0.28734	54.411 mg/L	2.4518	4.5
Zn	481.053	1.5213	288.07 mg/L	30.592	11
Ba	493.409	1.9406	367.46 mg/L	5.0349	1.4
Na	588.995	1.3893	263.07 mg/L	1.3006	0.49
Li	670.784	0.03361	6.3637 mg/L	0.16383	2.6
K	766.490	5.2734	998.55 mg/L	10.054	1.0
K	769.896	5.0970	965.17 mg/L	28.545	3.0

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011122nm #Steps = 24.71

Measurements for 99IE19S01 S-990086- 9

Sn	189.989	14.600	0.00000	8.0000	6.6000	6.6000	0.23705	47.362	mg/
		10.100	0.00000	10.900	-0.80000	-0.80000	0.01959	3.9142	mg/
		13.900	0.00000	10.100	3.8000	3.8000	0.15477	30.922	mg/
Tl	190.864	50.400	16.180	0.00000	34.220	34.220	1.0991	219.60	mg/
		54.000	13.500	0.00000	40.500	40.500	1.3033	260.40	mg/
		51.400	13.780	0.00000	37.620	37.620	1.2096	241.69	mg/
Tl	190.883	19.040	13.900	0.00000	5.1400	5.1400	0.37251	74.428	mg/
		19.020	13.960	0.00000	5.0600	5.0600	0.36730	73.386	mg/
		19.400	14.540	0.00000	4.8600	4.8600	0.35426	70.780	mg/
As	193.759	42.120	34.520	23.680	9.9229	9.9229	0.22923	45.801	mg/
		44.420	32.480	26.160	13.294	13.294	0.30996	61.930	mg/
		44.180	32.420	22.360	13.916	13.916	0.32484	64.903	mg/
Se	196.090	10.280	0.00000	7.5200	2.7600	2.7600	0.22227	44.409	mg/
		10.180	0.00000	8.5200	1.6600	1.6600	0.14254	28.479	mg/
		9.9400	0.00000	7.8800	2.0600	2.0600	0.17153	34.272	mg/
Mo	202.030	3.7000	3.6000	0.00000	0.10000	0.10000	0.00370	0.73918	mg/
		3.4000	3.8000	0.00000	-0.40000	-0.40000	-0.00740	-1.4784	mg/
		4.0000	4.0000	0.00000	0.00000	0.00000	0.00148	0.29567	mg/
Se	203.985	26.000	0.00000	19.540	6.4600	6.4600	0.41075	82.068	mg/
		27.160	0.00000	19.760	7.4000	7.4000	0.47575	95.055	mg/
		25.840	0.00000	19.480	6.3600	6.3600	0.40384	80.686	mg/
Cr	205.552	28.100	0.00000	2.2000	25.900	25.900	0.55832	111.55	mg/
		29.500	0.00000	2.3000	27.200	27.200	0.58641	117.17	mg/
		29.500	0.00000	2.4000	27.100	27.100	0.58425	116.73	mg/
Sb	206.833	29.800	0.00000	20.240	9.5600	9.5600	0.14382	28.736	mg/
		28.400	0.00000	20.860	7.5400	7.5400	0.11145	22.267	mg/
		29.300	0.00000	20.180	9.1200	9.1200	0.13677	27.327	mg/
Zn	213.856	142.10	0.00000	1.8000	140.30	140.30	2.6295	525.38	mg/
		145.20	0.00000	1.7000	143.50	143.50	2.6897	537.41	mg/
		143.00	0.00000	1.7000	141.30	141.30	2.6483	529.14	mg/
Sb	217.581	30.740	0.00000	26.740	4.0000	4.0000	0.04868	9.7268	mg/
		31.500	0.00000	26.200	5.3000	5.3000	0.06850	13.687	mg/
		29.180	0.00000	26.820	2.3600	2.3600	0.02368	4.7314	mg/
Pb	220.353	106.32	24.760	27.400	80.007	80.007	1.4135	282.42	mg/
		106.16	24.560	27.620	79.800	79.800	1.4099	281.70	mg/
		104.94	24.400	27.040	78.987	78.987	1.3956	278.84	mg/
Co	228.616	49.000	0.00000	5.1000	43.900	43.900	0.53091	106.08	mg/
		49.100	0.00000	5.1000	44.000	44.000	0.53213	106.32	mg/
		51.000	0.00000	5.5000	45.500	45.500	0.55032	109.95	mg/
Cd	228.802	9.0000	0.00000	2.3000	6.7000	6.7000	0.12499	24.973	mg/
		8.8000	0.00000	2.1000	6.7000	6.7000	0.12499	24.973	mg/
		9.0000	0.00000	2.4000	6.6000	6.6000	0.12312	24.599	mg/
Ni	231.604	47.200	0.00000	6.6000	40.600	40.600	0.61290	122.46	mg/
		49.500	0.00000	6.5000	43.000	43.000	0.64910	129.69	mg/
		50.200	0.00000	6.6000	43.600	43.600	0.65815	131.50	mg/
Be	234.861	69.000	0.00000	11.000	58.000	58.000	0.05810	11.608	mg/
		69.000	0.00000	12.000	57.000	57.000	0.05710	11.408	mg/
		70.000	0.00000	11.000	59.000	59.000	0.05910	11.808	mg/
B	249.678	644.60	0.00000	15.000	629.60	629.60	1.3470	269.13	mg/
		659.30	0.00000	13.700	645.60	645.60	1.3816	276.04	mg/

		4208.0	0.00000	15.000	4193.0	4193.0	4.5273	904.55	mg/
		4253.0	0.00000	16.000	4237.0	4237.0	4.5748	914.05	mg/
Fe	259.940	23452	0.00000	18.000	23434	23434	272.49	54444	mg/
		23592	0.00000	18.000	23574	23574	274.12	54770	mg/
		23289	0.00000	18.000	23271	23271	270.60	54066	mg/
Fe	271.441	500.30	2.5000	0.00000	497.80	497.80	289.41	57825	mg/
		511.80	2.4000	0.00000	509.40	509.40	296.16	59172	mg/
		505.90	2.4000	0.00000	503.50	503.50	292.73	58487	mg/
Mg	279.553	26227	0.00000	17.000	26210	26210	24.245	4844.2	mg/
		26022	0.00000	18.000	26004	26004	24.055	4806.1	mg/
		26471	0.00000	18.000	26453	26453	24.470	4889.1	mg/
V	292.402	104.60	18.400	0.00000	86.200	86.200	0.55771	111.43	mg/
		104.60	18.100	0.00000	86.500	86.500	0.55964	111.82	mg/
		101.60	18.700	0.00000	82.900	82.900	0.53648	107.19	mg/
Al	308.215	126.70	2.4000	0.00000	124.30	124.30	36.326	7258.0	mg/
		124.60	2.1000	0.00000	122.50	122.50	35.801	7153.0	mg/
		124.90	2.7000	0.00000	122.20	122.20	35.713	7135.4	mg/
Ca	315.887	5340.8	0.00000	53.800	5287.0	5287.0	81.650	16314	mg/
		5418.8	0.00000	52.800	5366.0	5366.0	82.870	16557	mg/
		5220.6	0.00000	54.200	5166.4	5166.4	79.789	15942	mg/
Cu	324.754	910.00	0.00000	172.00	738.00	738.00	0.56543	112.97	mg/
		924.00	0.00000	169.00	755.00	755.00	0.57860	115.60	mg/
		891.00	0.00000	172.00	719.00	719.00	0.55072	110.03	mg/
Ag	328.068	311.20	0.00000	176.40	134.80	134.80	0.10090	20.159	mg/
		302.00	0.00000	172.90	129.10	129.10	0.09647	19.274	mg/
		307.00	0.00000	178.30	128.70	128.70	0.09616	19.212	mg/
Ti	334.941	1262.0	0.00000	61.000	1201.0	1201.0	0.97951	195.71	mg/
		1249.0	0.00000	61.000	1188.0	1188.0	0.96887	193.58	mg/
		1225.0	0.00000	60.000	1165.0	1165.0	0.95004	189.82	mg/
Y	371.030	7390.0	0.00000	470.00	6920.0	6920.0	0.51245	102.39	mg/
		7960.0	0.00000	470.00	7490.0	7490.0	0.55460	110.81	mg/
		7700.0	0.00000	470.00	7230.0	7230.0	0.53537	106.97	mg/
Mg	383.826	7738.0	334.00	0.00000	7404.0	7404.0	22.686	4532.7	mg/
		7857.0	329.00	0.00000	7528.0	7528.0	23.065	4608.5	mg/
		7951.0	333.00	0.00000	7618.0	7618.0	23.341	4663.5	mg/
Ca	393.366	+o******	0.00000	720.00	+o******	+o******	71.039	14194	mg/
		+o******	0.00000	730.00	+o******	+o******	72.437	14473	mg/
		+o******	0.00000	700.00	+o******	+o******	72.077	14401	mg/
Al	396.152	5310.7	0.00000	103.90	5206.8	5206.8	34.486	6890.2	mg/
		5289.2	0.00000	102.90	5186.3	5186.3	34.350	6863.1	mg/
		5261.6	0.00000	102.00	5159.6	5159.6	34.173	6827.8	mg/
Sr	421.552	21810	310.00	0.00000	21500	21500	1.2765	255.05	mg/
		21760	320.00	0.00000	21440	21440	1.2729	254.34	mg/
		20740	310.00	0.00000	20430	20430	1.2129	242.35	mg/
Zn	481.053	150.60	0.00000	103.60	47.000	47.000	2.4074	481.00	mg/
		151.50	0.00000	104.00	47.500	47.500	2.4341	486.34	mg/
		153.20	0.00000	104.50	48.700	48.700	2.4982	499.13	mg/
Ba	493.409	42650	380.00	0.00000	42270	42270	2.2868	456.90	mg/
		43740	380.00	0.00000	43360	43360	2.3457	468.68	mg/
		45810	380.00	0.00000	45430	45430	2.4577	491.05	mg/
Na	588.995	461.00	108.00	0.00000	353.00	353.00	1.5003	299.76	mg/
		472.00	110.00	0.00000	362.00	362.00	1.5360	306.89	mg/
		471.00	111.00	0.00000	360.00	360.00	1.5280	305.30	mg/
Li	670.784	304.30	0.00000	16.400	287.90	287.90	0.54205	108.30	mg/
		297.00	0.00000	16.600	280.40	280.40	0.52789	105.47	mg/
		289.80	0.00000	16.200	273.60	273.60	0.51505	102.91	mg/
K	766.490	232.20	0.00000	26.600	205.60	205.60	5.8754	1173.9	mg/
		232.90	0.00000	27.600	205.30	205.30	5.8668	1172.2	mg/
		220.50	0.00000	26.900	193.60	193.60	5.5314	1105.2	mg/
K	769.896	268.20	0.00000	50.400	217.80	217.80	5.8252	1163.9	mg/
		266.90	0.00000	46.900	220.00	220.00	5.8841	1175.6	mg/
		261.30	0.00000	51.800	209.50	209.50	5.6030	1119.5	mg/

----- 11:46:22 7/ 7/99 ----- Method: JYSED5

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.13713	27.399 mg/L	21.937	80
Tl	190.864	1.2040	240.56 mg/L	20.424	8.5
Tl	190.883	0.36469	72.865 mg/L	1.8788	2.6
As	193.759	0.28801	57.545 mg/L	10.278	18
Se	196.090	0.17878	35.720 mg/L	8.0627	23
Mo	202.030	-0.00074	-0.14784 mg/L	1.1734	790
Se	203.985	0.43011	85.937 mg/L	7.9272	9.2
Cr	205.552	0.57633	115.15 mg/L	3.1238	2.7
Sb	206.833	0.13068	26.110 mg/L	3.4018	13
Zn	213.856	2.6559	530.64 mg/L	6.1552	1.2
Sb	217.581	0.04696	9.3816 mg/L	4.4876	48
Pb	220.353	1.4063	280.99 mg/L	1.8957	0.67
Co	228.616	0.53779	107.45 mg/L	2.1723	2.0
Cd	228.802	0.12437	24.849 mg/L	0.21628	0.87
Ni	231.604	0.64005	127.88 mg/L	4.7841	3.7
Be	234.861	0.05810	11.608 mg/L	0.20013	1.7
B	249.678	1.3714	274.00 mg/L	4.2338	1.5
Mn	257.610	4.5813	915.34 mg/L	11.492	1.3
Fe	259.940	272.41	54427 mg/L	352.33	0.65
Fe	271.441	292.77	58495 mg/L	673.81	1.1
Mg	279.553	24.257	4846.5 mg/L	41.547	0.86
V	292.402	0.55128	110.15 mg/L	2.5673	2.3
Al	308.215	35.947	7182.1 mg/L	66.302	0.92
Ca	315.887	81.436	16271 mg/L	309.98	1.9
Cu	324.754	0.56492	112.87 mg/L	2.7858	2.5
Ag	328.068	0.09784	19.548 mg/L	0.52968	2.7
Ti	334.941	0.96614	193.03 mg/L	2.9814	1.5
Y	371.030	0.53414	106.72 mg/L	4.2161	3.9
Mg	383.826	23.031	4601.5 mg/L	65.665	1.4
Ca	393.366	71.851	14356 mg/L	145.08	1.0
Al	396.152	34.336	6860.4 mg/L	31.334	0.46
Sr	421.552	1.2541	250.58 mg/L	7.1362	2.8
Zn	481.053	2.4466	488.82 mg/L	9.3181	1.9
Ba	493.409	2.3634	472.21 mg/L	17.349	3.7
Na	588.995	1.5214	303.98 mg/L	3.7443	1.2
Li	670.784	0.52833	105.56 mg/L	2.6982	2.6
K	766.490	5.7579	1150.4 mg/L	39.200	3.4
K	769.896	5.7708	1153.0 mg/L	29.618	2.6

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010986nm #Steps = 24.41

Measurements for 99IE19S02-990086- 10

Sn	189.989	9.4000	0.00000	8.4000	1.0000	1.0000	0.07249	13.934	mg/
		10.100	0.00000	7.7000	2.4000	2.4000	0.11363	21.843	mg/
		9.3000	0.00000	7.5000	1.8000	1.8000	0.09599	18.453	mg/
Tl	190.864	24.820	12.540	0.00000	12.280	12.280	0.38566	74.136	mg/
		23.660	12.380	0.00000	11.280	11.280	0.35314	67.885	mg/
		22.980	13.680	0.00000	9.3000	9.3000	0.28876	55.509	mg/
Tl	190.883	13.900	12.020	0.00000	1.8800	1.8800	0.15996	30.749	mg/
		13.040	11.420	0.00000	1.6200	1.6200	0.14301	27.491	mg/
		11.140	12.440	0.00000	-1.3000	-1.3000	-0.04738	-9.1078	mg/
As	193.759	23.700	27.360	18.560	-1.7743	-1.7743	-0.05084	-9.7734	mg/
		23.920	25.920	19.280	-0.57714	-0.57714	-0.02218	-4.2631	mg/
		24.380	26.180	19.140	-0.29143	-0.29143	-0.01534	-2.9480	mg/
Se	196.090	6.5800	0.00000	7.2000	-0.62000	-0.62000	-0.02271	-4.3656	mg/
		6.8400	0.00000	7.1000	-0.26000	-0.26000	0.00338	0.65019	mg/
		6.8200	0.00000	6.7400	0.08000	0.08000	0.02802	5.3873	mg/
Mo	202.030	3.0000	2.9000	0.00000	0.10000	0.10000	0.00370	0.71119	mg/

Se	203.985	16.220	0.00000	16.900	-0.68000	-0.68000	-0.08298	-15.952	mg/
		15.740	0.00000	15.540	0.20000	0.20000	-0.02213	-4.2537	mg/
		15.900	0.00000	15.840	0.06000	0.06000	-0.03181	-6.1148	mg/
Cr	205.552	4.7000	0.00000	2.4000	2.3000	2.3000	0.04827	9.2786	mg/
		4.6000	0.00000	2.3000	2.3000	2.3000	0.04827	9.2786	mg/
		4.7000	0.00000	2.4000	2.3000	2.3000	0.04827	9.2786	mg/
Sb	206.833	20.020	0.00000	17.680	2.3400	2.3400	0.02810	5.4022	mg/
		19.200	0.00000	19.140	0.06000	0.06000	-0.00844	-1.6227	mg/
		18.900	0.00000	18.760	0.14000	0.14000	-0.00716	-1.3762	mg/
Zn	213.856	41.900	0.00000	1.7000	40.200	40.200	0.74583	143.37	mg/
		41.400	0.00000	1.7000	39.700	39.700	0.73642	141.56	mg/
		41.400	0.00000	1.6000	39.800	39.800	0.73830	141.93	mg/
Sb	217.581	20.860	0.00000	21.940	-1.0800	-1.0800	-0.02876	-5.5291	mg/
		21.820	0.00000	22.120	-0.30000	-0.30000	-0.01687	-3.2432	mg/
		21.800	0.00000	21.760	0.04000	0.04000	-0.01169	-2.2468	mg/
Pb	220.353	36.020	24.320	25.340	11.100	11.100	0.20092	38.623	mg/
		34.980	24.980	24.800	10.106	10.106	0.18342	35.260	mg/
		34.600	24.240	25.900	9.3835	9.3835	0.17071	32.817	mg/
Co	228.616	7.2000	0.00000	4.7000	2.5000	2.5000	0.02871	5.5188	mg/
		8.1000	0.00000	4.6000	3.5000	3.5000	0.04084	7.8507	mg/
		7.0000	0.00000	4.6000	2.4000	2.4000	0.02750	5.2856	mg/
Cd	228.802	2.5000	0.00000	2.2000	0.30000	0.30000	0.00500	0.96111	mg/
		2.6000	0.00000	2.0000	0.60000	0.60000	0.01062	2.0424	mg/
		2.5000	0.00000	2.0000	0.50000	0.50000	0.00875	1.6819	mg/
Ni	231.604	14.200	0.00000	6.0000	8.2000	8.2000	0.12419	23.873	mg/
		13.100	0.00000	5.6000	7.5000	7.5000	0.11363	21.844	mg/
		13.600	0.00000	6.0000	7.6000	7.6000	0.11514	22.134	mg/
Be	234.861	12.000	0.00000	9.0000	3.0000	3.0000	0.00301	0.57766	mg/
		11.000	0.00000	8.0000	3.0000	3.0000	0.00301	0.57766	mg/
		12.000	0.00000	8.0000	4.0000	4.0000	0.00401	0.77022	mg/
B	249.678	86.300	0.00000	11.600	74.700	74.700	0.14698	28.255	mg/
		90.700	0.00000	13.200	77.500	77.500	0.15304	29.419	mg/
		88.500	0.00000	13.200	75.300	75.300	0.14828	28.505	mg/
Mn	257.610	1368.0	0.00000	12.000	1356.0	1356.0	1.4631	281.26	mg/
		1343.0	0.00000	13.000	1330.0	1330.0	1.4350	275.87	mg/
		1354.0	0.00000	12.000	1342.0	1342.0	1.4480	278.36	mg/
Fe	259.940	8075.5	0.00000	6.7000	8068.8	8068.8	93.823	18036	mg/
		7909.2	0.00000	6.6000	7902.6	7902.6	91.890	17664	mg/
		8052.6	0.00000	6.5000	8046.1	8046.1	93.559	17985	mg/
Fe	271.441	160.40	2.3000	0.00000	158.10	158.10	91.904	17667	mg/
		161.50	2.3000	0.00000	159.20	159.20	92.543	17790	mg/
		163.60	2.2000	0.00000	161.40	161.40	93.822	18036	mg/
Mg	279.553	29647	0.00000	19.000	29628	29628	27.408	5268.7	mg/
		29387	0.00000	19.000	29368	29368	27.167	5222.4	mg/
		29908	0.00000	19.000	29889	29889	27.649	5315.1	mg/
V	292.402	20.500	9.9000	0.00000	10.600	10.600	0.07140	13.726	mg/
		20.000	10.300	0.00000	9.7000	9.7000	0.06561	12.613	mg/
		19.400	10.000	0.00000	9.4000	9.4000	0.06368	12.242	mg/
Al	308.215	96.100	2.5000	0.00000	93.600	93.600	27.357	5258.9	mg/
		93.900	2.2000	0.00000	91.700	91.700	26.802	5152.2	mg/
		95.700	2.5000	0.00000	93.200	93.200	27.240	5236.4	mg/
Ca	315.887	4584.5	0.00000	53.300	4531.2	4531.2	69.985	13453	mg/
		4716.5	0.00000	51.500	4665.0	4665.0	72.050	13850	mg/
		4629.0	0.00000	51.700	4577.3	4577.3	70.697	13590	mg/
Cu	324.754	213.00	0.00000	124.00	89.000	89.000	0.06297	12.105	mg/
		208.00	0.00000	122.00	86.000	86.000	0.06065	11.658	mg/
		214.00	0.00000	120.00	94.000	94.000	0.06684	12.849	mg/
Ag	328.068	174.40	0.00000	170.70	3.7000	3.7000	-0.00096	-0.18420	mg/
		164.70	0.00000	169.40	-4.7000	-4.7000	-0.00748	-1.4387	mg/
		179.80	0.00000	172.50	7.3000	7.3000	0.00184	0.35346	mg/
Ti	334.941	1276.0	0.00000	60.000	1216.0	1216.0	0.99179	190.66	mg/
		1264.0	0.00000	62.000	1202.0	1202.0	0.98033	188.45	mg/
		1277.0	0.00000	59.000	1218.0	1218.0	0.99342	190.97	mg/
Y	371.030	1020.0	0.00000	430.00	590.00	590.00	0.04437	8.5290	mg/

Mg	383.826	9137.0	334.00	0.00000	8803.0	8803.0	26.965	5183.6	mg/
		9355.0	340.00	0.00000	9015.0	9015.0	27.614	5308.3	mg/
		8784.0	337.00	0.00000	8447.0	8447.0	25.876	4974.3	mg/
Ca	393.366	970220	0.00000	640.00	969580	969580	66.563	12796	mg/
		945880	0.00000	660.00	945220	945220	64.890	12474	mg/
		948570	0.00000	660.00	947910	947910	65.075	12510	mg/
Al	396.152	3927.9	0.00000	94.600	3833.3	3833.3	25.385	4879.8	mg/
		3859.8	0.00000	96.100	3763.7	3763.7	24.923	4791.1	mg/
		3850.9	0.00000	97.700	3753.2	3753.2	24.854	4777.8	mg/
Sr	421.552	2910.0	210.00	0.00000	2700.0	2700.0	0.15961	30.683	mg/
		3080.0	210.00	0.00000	2870.0	2870.0	0.16971	32.625	mg/
		2880.0	210.00	0.00000	2670.0	2670.0	0.15783	30.340	mg/
Zn	481.053	118.90	0.00000	104.90	14.000	14.000	0.64589	124.16	mg/
		115.60	0.00000	107.50	8.1000	8.1000	0.33095	63.620	mg/
		117.30	0.00000	108.90	8.4000	8.4000	0.34697	66.699	mg/
Ba	493.409	18230	360.00	0.00000	17870	17870	0.96686	185.86	mg/
		18350	350.00	0.00000	18000	18000	0.97389	187.21	mg/
		18230	350.00	0.00000	17880	17880	0.96740	185.97	mg/
Na	588.995	341.00	107.00	0.00000	234.00	234.00	1.0284	197.69	mg/
		327.00	110.00	0.00000	217.00	217.00	0.96098	184.73	mg/
		340.00	107.00	0.00000	233.00	233.00	1.0244	196.93	mg/
Li	670.784	33.000	0.00000	15.400	17.600	17.600	0.03172	6.0974	mg/
		32.100	0.00000	15.400	16.700	16.700	0.03002	5.7707	mg/
		32.100	0.00000	15.800	16.300	16.300	0.02926	5.6255	mg/
K	766.490	212.30	0.00000	27.300	185.00	185.00	5.2848	1015.9	mg/
		217.00	0.00000	27.300	189.70	189.70	5.4196	1041.8	mg/
		206.50	0.00000	26.100	180.40	180.40	5.1529	990.57	mg/
K	769.896	249.70	0.00000	45.600	204.10	204.10	5.4584	1049.3	mg/
		248.00	0.00000	50.000	198.00	198.00	5.2951	1017.9	mg/
		248.40	0.00000	47.600	200.80	200.80	5.3701	1032.3	mg/

----- 11:54:19 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S02-990086- 10

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.09403	18.077 mg/L	3.9677	22
Tl	190.864	0.34252	65.843 mg/L	9.4803	14
Tl	190.883	0.08520	16.377 mg/L	22.131	140
As	193.759	-0.02945	-5.6615 mg/L	3.6212	64
Se	196.090	0.00290	0.55731 mg/L	4.8771	880
Mo	202.030	0.00000	0.00000 mg/L	0.88827	+o***
Se	203.985	-0.04564	-8.7733 mg/L	6.2857	72
Cr	205.552	0.04827	9.2786 mg/L	0.00000	0.00
Sb	206.833	0.00417	0.80109 mg/L	3.9866	500
Zn	213.856	0.74018	142.29 mg/L	0.95710	0.67
Sb	217.581	-0.01911	-3.6731 mg/L	1.6828	46
Pb	220.353	0.18502	35.567 mg/L	2.9154	8.2
Co	228.616	0.03235	6.2184 mg/L	1.4184	23
Cd	228.802	0.00812	1.5618 mg/L	0.55054	35
Ni	231.604	0.11765	22.617 mg/L	1.0978	4.8
Be	234.861	0.00334	0.64185 mg/L	0.11117	17
B	249.678	0.14943	28.726 mg/L	0.61287	2.1
Mn	257.610	1.4487	278.50 mg/L	2.7018	0.97
Fe	259.940	93.090	17895 mg/L	201.45	1.1
Fe	271.441	92.756	17831 mg/L	187.80	1.0
Mg	279.553	27.408	5268.7 mg/L	46.332	0.88
V	292.402	0.06690	12.860 mg/L	0.77224	6.0
Al	308.215	27.133	5215.8 mg/L	56.258	1.1
Ca	315.887	70.911	13631 mg/L	201.66	1.5
Cu	324.754	0.06349	12.204 mg/L	0.60149	4.9
Ag	328.068	-0.00220	-0.42316 mg/L	0.91969	220

Mg	383.826	26.818	5155.4 mg/L	168.77	3.3
Ca	393.366	65.510	12593 mg/L	176.34	1.4
Al	396.152	25.054	4816.2 mg/L	55.450	1.1
Sr	421.552	0.16239	31.216 mg/L	1.2318	3.9
Zn	481.053	0.44127	84.827 mg/L	34.100	40
Ba	493.409	0.96938	186.35 mg/L	0.75227	0.40
Na	588.995	1.0046	193.12 mg/L	7.2720	3.8
Li	670.784	0.03033	5.8312 mg/L	0.24166	4.1
K	766.490	5.2858	1016.1 mg/L	25.628	2.5
K	769.896	5.3746	1033.2 mg/L	15.713	1.5

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010868nm #Steps = 24.14

Measurements for 99IE19S03-990086- 11

Sn	189.989	12.900	0.00000	9.2000	3.7000	3.7000	0.15183	28.870	mg/
		11.800	0.00000	7.6000	4.2000	4.2000	0.16652	31.664	mg/
		13.700	0.00000	8.5000	5.2000	5.2000	0.19591	37.251	mg/
Tl	190.864	31.780	14.420	0.00000	17.360	17.360	0.55085	104.74	mg/
		32.320	16.260	0.00000	16.060	16.060	0.50857	96.705	mg/
		31.520	14.960	0.00000	16.560	16.560	0.52483	99.797	mg/
Tl	190.883	16.640	14.360	0.00000	2.2800	2.2800	0.18604	35.375	mg/
		15.360	14.600	0.00000	0.76000	0.76000	0.08693	16.530	mg/
		16.160	14.020	0.00000	2.1400	2.1400	0.17691	33.640	mg/
As	193.759	46.740	51.280	29.860	0.05000	0.05000	-0.00716	-1.3616	mg/
		44.640	48.880	30.280	-0.25429	-0.25429	-0.01445	-2.7470	mg/
		44.880	48.420	30.400	0.32143	0.32143	-0.00066	-0.12576	mg/
Se	196.090	8.1600	0.00000	8.2800	-0.12000	-0.12000	0.01353	2.5726	mg/
		9.0600	0.00000	8.9200	0.14000	0.14000	0.03237	6.1558	mg/
		8.2000	0.00000	8.3600	-0.16000	-0.16000	0.01063	2.0213	mg/
Mo	202.030	4.3000	3.8000	0.00000	0.50000	0.50000	0.01258	2.3918	mg/
		3.9000	4.2000	0.00000	-0.30000	-0.30000	-0.00518	-0.98487	mg/
		4.8000	3.9000	0.00000	0.90000	0.90000	0.02146	4.0802	mg/
Se	203.985	22.760	0.00000	22.840	-0.08000	-0.08000	-0.04149	-7.8893	mg/
		23.160	0.00000	21.140	2.0200	2.0200	0.10372	19.723	mg/
		22.460	0.00000	21.620	0.84000	0.84000	0.02213	4.2076	mg/
Cr	205.552	12.800	0.00000	2.6000	10.200	10.200	0.21900	41.644	mg/
		12.000	0.00000	2.9000	9.1000	9.1000	0.19523	37.123	mg/
		12.100	0.00000	2.7000	9.4000	9.4000	0.20171	38.356	mg/
Sb	206.833	28.700	0.00000	27.500	1.2000	1.2000	0.00983	1.8693	mg/
		27.840	0.00000	26.060	1.7800	1.7800	0.01913	3.6369	mg/
		27.540	0.00000	25.340	2.2000	2.2000	0.02586	4.9170	mg/
Zn	213.856	975.90	0.00000	2.1000	973.80	973.80	18.315	3482.5	mg/
		968.70	0.00000	2.0000	966.70	966.70	18.181	3457.1	mg/
		971.60	0.00000	2.0000	969.60	969.60	18.235	3467.5	mg/
Sb	217.581	25.400	0.00000	25.420	-0.02000	-0.02000	-0.01260	-2.3964	mg/
		25.400	0.00000	25.840	-0.44000	-0.44000	-0.01901	-3.6139	mg/
		25.320	0.00000	25.080	0.24000	0.24000	-0.00864	-1.6427	mg/
Pb	220.353	82.640	25.080	29.100	55.195	55.195	0.97690	185.76	mg/
		81.480	25.840	28.980	53.793	53.793	0.95222	181.06	mg/
		82.000	25.480	29.280	54.285	54.285	0.96087	182.71	mg/
Co	228.616	9.8000	0.00000	4.9000	4.9000	4.9000	0.05782	10.995	mg/
		9.5000	0.00000	4.8000	4.7000	4.7000	0.05540	10.534	mg/
		9.8000	0.00000	4.8000	5.0000	5.0000	0.05904	11.226	mg/
Cd	228.802	9.8000	0.00000	2.2000	7.6000	7.6000	0.14187	26.976	mg/
		10.000	0.00000	2.2000	7.8000	7.8000	0.14562	27.689	mg/
		10.200	0.00000	2.2000	8.0000	8.0000	0.14937	28.402	mg/
Ni	231.604	122.70	0.00000	5.8000	116.90	116.90	1.7638	335.38	mg/
		121.80	0.00000	6.0000	115.80	115.80	1.7472	332.23	mg/
		123.00	0.00000	5.8000	117.20	117.20	1.7683	336.25	mg/
Be	234.861	16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3333	mg/
		16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3333	mg/
		15.000	0.00000	10.000	5.0000	5.0000	0.00501	0.95234	mg/

		117.70	0.00000	13.400	104.30	104.30	0.21100	40.121	mg/
Mn	257.610	1018.0	0.00000	13.000	1005.0	1005.0	1.0840	206.13	mg/
		997.00	0.00000	13.000	984.00	984.00	1.0613	201.82	mg/
		987.00	0.00000	12.000	975.00	975.00	1.0516	199.97	mg/
Fe	259.940	12469	0.00000	13.000	12456	12456	144.84	27541	mg/
		12682	0.00000	13.000	12669	12669	147.32	28012	mg/
		12420	0.00000	13.000	12407	12407	144.27	27433	mg/
Fe	271.441	265.80	2.2000	0.00000	263.60	263.60	153.24	29139	mg/
		266.10	2.3000	0.00000	263.80	263.80	153.36	29161	mg/
		266.90	2.2000	0.00000	264.70	264.70	153.88	29261	mg/
Mg	279.553	24615	0.00000	17.000	24598	24598	22.754	4326.6	mg/
		24644	0.00000	17.000	24627	24627	22.781	4331.7	mg/
		25459	0.00000	16.000	25443	25443	23.536	4475.3	mg/
V	292.402	37.400	13.600	0.00000	23.800	23.800	0.15631	29.723	mg/
		39.100	12.300	0.00000	26.800	26.800	0.17561	33.393	mg/
		39.400	11.500	0.00000	27.900	27.900	0.18269	34.738	mg/
Al	308.215	312.30	2.8000	0.00000	309.50	309.50	90.436	17196	mg/
		304.70	2.5000	0.00000	302.20	302.20	88.303	16791	mg/
		297.20	2.8000	0.00000	294.40	294.40	86.025	16358	mg/
Ca	315.887	2236.5	0.00000	48.700	2187.8	2187.8	33.817	6430.3	mg/
		2255.4	0.00000	47.600	2207.8	2207.8	34.125	6489.0	mg/
		2214.5	0.00000	47.700	2166.8	2166.8	33.493	6368.6	mg/
Cu	324.754	2518.0	0.00000	141.00	2377.0	2377.0	1.8344	348.81	mg/
		2535.0	0.00000	138.00	2397.0	2397.0	1.8498	351.75	mg/
		2545.0	0.00000	136.00	2409.0	2409.0	1.8591	353.52	mg/
Ag	328.068	181.60	0.00000	170.90	10.700	10.700	0.00448	0.85192	mg/
		172.80	0.00000	168.70	4.1000	4.1000	-0.00065	-0.12311	mg/
		175.70	0.00000	168.70	7.0000	7.0000	0.00161	0.30531	mg/
Ti	334.941	1441.0	0.00000	60.000	1381.0	1381.0	1.1268	214.27	mg/
		1506.0	0.00000	60.000	1446.0	1446.0	1.1800	224.39	mg/
		1447.0	0.00000	60.000	1387.0	1387.0	1.1318	215.20	mg/
Y	371.030	1410.0	0.00000	440.00	970.00	970.00	0.07247	13.780	mg/
		1410.0	0.00000	450.00	960.00	960.00	0.07173	13.639	mg/
		1390.0	0.00000	450.00	940.00	940.00	0.07025	13.358	mg/
Mg	383.826	7590.0	334.00	0.00000	7256.0	7256.0	22.233	4227.7	mg/
		7557.0	329.00	0.00000	7228.0	7228.0	22.148	4211.4	mg/
		7698.0	336.00	0.00000	7362.0	7362.0	22.558	4289.3	mg/
Ca	393.366	498280	0.00000	390.00	497890	497890	34.166	6496.7	mg/
		504100	0.00000	400.00	503700	503700	34.565	6572.6	mg/
		507110	0.00000	390.00	506720	506720	34.773	6612.1	mg/
Al	396.152	12541	0.00000	110.00	12431	12431	82.354	15660	mg/
		12312	0.00000	110.00	12202	12202	80.837	15371	mg/
		12199	0.00000	110.00	12089	12089	80.088	15229	mg/
Sr	421.552	3130.0	210.00	0.00000	2920.0	2920.0	0.17268	32.836	mg/
		3130.0	210.00	0.00000	2920.0	2920.0	0.17268	32.836	mg/
		3230.0	200.00	0.00000	3030.0	3030.0	0.17922	34.078	mg/
Zn	481.053	436.30	0.00000	105.10	331.20	331.20	17.578	3342.4	mg/
		424.80	0.00000	109.90	314.90	314.90	16.708	3177.0	mg/
		426.10	0.00000	104.40	321.70	321.70	17.071	3246.0	mg/
Ba	493.409	29540	360.00	0.00000	29180	29180	1.5787	300.18	mg/
		29880	370.00	0.00000	29510	29510	1.5965	303.58	mg/
		30350	360.00	0.00000	29990	29990	1.6225	308.52	mg/
Na	588.995	729.00	109.00	0.00000	620.00	620.00	2.5591	486.61	mg/
		748.00	114.00	0.00000	634.00	634.00	2.6146	497.17	mg/
		757.00	110.00	0.00000	647.00	647.00	2.6662	506.97	mg/
Li	670.784	56.000	0.00000	15.400	40.600	40.600	0.07514	14.288	mg/
		58.300	0.00000	15.500	42.800	42.800	0.07930	15.078	mg/
		57.000	0.00000	15.500	41.500	41.500	0.07684	14.611	mg/
K	766.490	543.80	0.00000	29.500	514.30	514.30	14.726	2800.1	mg/
		549.40	0.00000	29.200	520.20	520.20	14.895	2832.3	mg/
		556.50	0.00000	27.700	528.80	528.80	15.142	2879.2	mg/
K	769.896	583.30	0.00000	48.400	534.90	534.90	14.314	2721.8	mg/
		585.20	0.00000	48.600	536.60	536.60	14.360	2730.5	mg/
		604.10	0.00000	51.900	552.20	552.20	14.777	2809.9	mg/

Sample 99IE19S03-990086- 11

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.17142	32.595 mg/L	4.2677	13
Tl	190.864	0.52808	100.42 mg/L	4.0546	4.0
Tl	190.883	0.14996	28.515 mg/L	10.415	37
As	193.759	-0.00742	-1.4114 mg/L	1.3113	93
Se	196.090	0.01884	3.5832 mg/L	2.2449	63
Mo	202.030	0.00962	1.8290 mg/L	2.5790	140
Se	203.985	0.02812	5.3472 mg/L	13.842	260
Cr	205.552	0.20532	39.041 mg/L	2.3368	6.0
Sb	206.833	0.01827	3.4744 mg/L	1.5303	44
Zn	213.856	18.244	3469.0 mg/L	12.774	0.37
Sb	217.581	-0.01342	-2.5510 mg/L	0.99467	39
Pb	220.353	0.96333	183.18 mg/L	2.3809	1.3
Co	228.616	0.05742	10.918 mg/L	0.35234	3.2
Cd	228.802	0.14562	27.689 mg/L	0.71302	2.6
Ni	231.604	1.7598	334.62 mg/L	2.1142	0.63
Be	234.861	0.00634	1.2063 mg/L	0.21993	18
B	249.678	0.20624	39.216 mg/L	1.2601	3.2
Mn	257.610	1.0657	202.64 mg/L	3.1617	1.6
Fe	259.940	145.47	27662 mg/L	307.99	1.1
Fe	271.441	153.50	29187 mg/L	64.781	0.22
Mg	279.553	23.023	4377.9 mg/L	84.395	1.9
V	292.402	0.17154	32.618 mg/L	2.5957	8.0
Al	308.215	88.255	16782 mg/L	419.53	2.5
Ca	315.887	33.812	6429.3 mg/L	60.169	0.94
Cu	324.754	1.8478	351.36 mg/L	2.3799	0.68
Ag	328.068	0.00181	0.34471 mg/L	0.48871	140
Ti	334.941	1.1462	217.95 mg/L	5.5909	2.6
Y	371.030	0.07148	13.592 mg/L	0.21478	1.6
Mg	383.826	22.313	4242.8 mg/L	41.109	0.97
Ca	393.366	34.501	6560.5 mg/L	58.612	0.89
Al	396.152	81.093	15420 mg/L	219.55	1.4
Sr	421.552	0.17486	33.250 mg/L	0.71744	2.2
Zn	481.053	17.119	3255.2 mg/L	83.101	2.5
Ba	493.409	1.5992	304.09 mg/L	4.1896	1.4
Na	588.995	2.6133	496.92 mg/L	10.182	2.0
Li	670.784	0.07709	14.659 mg/L	0.39707	2.7
K	766.490	14.921	2837.2 mg/L	39.752	1.4
K	769.896	14.484	2754.1 mg/L	48.538	1.8

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010747nm #Steps = 23.88

Measurements for 99IE19D03-990086- 12

Sn	189.989	13.600	0.00000	8.8000	4.8000	4.8000	0.18415	36.771	mg/
		12.700	0.00000	8.2000	4.5000	4.5000	0.17534	35.011	mg/
		11.400	0.00000	9.0000	2.4000	2.4000	0.11363	22.689	mg/
Tl	190.864	28.260	14.500	0.00000	13.760	13.760	0.43378	86.618	mg/
		29.120	13.880	0.00000	15.240	15.240	0.48191	96.228	mg/
		30.820	12.020	0.00000	18.800	18.800	0.59767	119.34	mg/
Tl	190.883	14.780	13.680	0.00000	1.1000	1.1000	0.10910	21.786	mg/
		14.740	13.180	0.00000	1.5600	1.5600	0.13909	27.774	mg/
		14.700	12.120	0.00000	2.5800	2.5800	0.20560	41.054	mg/
As	193.759	39.220	40.660	24.160	2.0957	2.0957	0.04182	8.3510	mg/
		36.440	38.480	25.680	0.70286	0.70286	0.00847	1.6916	mg/
		37.300	39.580	25.320	0.77571	0.77571	0.01022	2.0399	mg/
Se	196.090	7.6600	0.00000	7.2400	0.42000	0.42000	0.05267	10.517	mg/
		7.3200	0.00000	8.2800	-0.96000	-0.96000	-0.04735	-9.4553	mg/

		3.6000	3.7000	0.00000	-0.10000	-0.10000	-0.00074	-0.14775	mg/
		4.1000	3.6000	0.00000	0.50000	0.50000	0.01258	2.5117	mg/
Se	203.985	20.640	0.00000	18.860	1.7800	1.7800	0.08713	17.398	mg/
		20.360	0.00000	20.720	-0.36000	-0.36000	-0.06085	-12.151	mg/
		18.480	0.00000	19.100	-0.62000	-0.62000	-0.07883	-15.741	mg/
Cr	205.552	10.600	0.00000	2.4000	8.2000	8.2000	0.17578	35.100	mg/
		11.000	0.00000	2.5000	8.5000	8.5000	0.18226	36.394	mg/
		11.300	0.00000	2.7000	8.6000	8.6000	0.18442	36.826	mg/
Sb	206.833	24.380	0.00000	23.180	1.2000	1.2000	0.00983	1.9629	mg/
		23.780	0.00000	23.380	0.40000	0.40000	-0.00299	-0.59742	mg/
		25.800	0.00000	22.400	3.4000	3.4000	0.04509	9.0039	mg/
Zn	213.856	946.30	0.00000	2.1000	944.20	944.20	17.757	3545.8	mg/
		942.10	0.00000	1.9000	940.20	940.20	17.682	3530.8	mg/
		912.20	0.00000	1.9000	910.30	910.30	17.120	3418.4	mg/
Sb	217.581	24.240	0.00000	24.940	-0.70000	-0.70000	-0.02297	-4.5865	mg/
		23.180	0.00000	24.820	-1.6400	-1.6400	-0.03730	-7.4480	mg/
		24.840	0.00000	23.600	1.2400	1.2400	0.00661	1.3191	mg/
Pb	220.353	107.00	25.860	28.100	79.822	79.822	1.4103	281.61	mg/
		108.16	26.040	27.000	81.555	81.555	1.4408	287.69	mg/
		108.36	24.140	28.000	81.949	81.949	1.4477	289.08	mg/
Co	228.616	9.5000	0.00000	4.6000	4.9000	4.9000	0.05782	11.546	mg/
		8.7000	0.00000	4.5000	4.2000	4.2000	0.04933	9.8504	mg/
		8.2000	0.00000	4.8000	3.4000	3.4000	0.03963	7.9126	mg/
Cd	228.802	9.5000	0.00000	2.1000	7.4000	7.4000	0.13812	27.579	mg/
		9.5000	0.00000	2.2000	7.3000	7.3000	0.13624	27.205	mg/
		10.300	0.00000	2.2000	8.1000	8.1000	0.15124	30.200	mg/
Ni	231.604	127.50	0.00000	6.5000	121.00	121.00	1.8256	364.54	mg/
		120.60	0.00000	6.4000	114.20	114.20	1.7231	344.06	mg/
		121.50	0.00000	6.4000	115.10	115.10	1.7366	346.77	mg/
Be	234.861	13.000	0.00000	9.0000	4.0000	4.0000	0.00401	0.80006	mg/
		14.000	0.00000	9.0000	5.0000	5.0000	0.00501	1.0001	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.2001	mg/
B	249.678	87.700	0.00000	12.500	75.200	75.200	0.14806	29.566	mg/
		91.600	0.00000	12.200	79.400	79.400	0.15715	31.379	mg/
		91.300	0.00000	12.400	78.900	78.900	0.15607	31.163	mg/
Mn	257.610	868.00	0.00000	13.000	855.00	855.00	0.92202	184.11	mg/
		850.00	0.00000	12.000	838.00	838.00	0.90366	180.44	mg/
		830.00	0.00000	12.000	818.00	818.00	0.88206	176.13	mg/
Fe	259.940	10890	0.00000	8.3000	10882	10882	126.53	25266	mg/
		10788	0.00000	13.000	10775	10775	125.29	25018	mg/
		11335	0.00000	13.000	11322	11322	131.65	26288	mg/
Fe	271.441	237.00	2.3000	0.00000	234.70	234.70	136.44	27245	mg/
		231.70	2.5000	0.00000	229.20	229.20	133.24	26606	mg/
		229.90	2.4000	0.00000	227.50	227.50	132.25	26409	mg/
Mg	279.553	20537	0.00000	14.000	20523	20523	18.983	3790.6	mg/
		20231	0.00000	15.000	20216	20216	18.699	3733.9	mg/
		20620	0.00000	15.000	20605	20605	19.059	3805.8	mg/
V	292.402	33.600	11.200	0.00000	22.400	22.400	0.14731	29.415	mg/
		32.400	11.200	0.00000	21.200	21.200	0.13959	27.873	mg/
		33.800	11.200	0.00000	22.600	22.600	0.14859	29.671	mg/
Al	308.215	211.20	3.2000	0.00000	208.00	208.00	60.781	12137	mg/
		216.50	2.3000	0.00000	214.20	214.20	62.593	12499	mg/
		211.60	2.4000	0.00000	209.20	209.20	61.132	12207	mg/
Ca	315.887	2123.3	0.00000	47.100	2076.2	2076.2	32.094	6408.6	mg/
		2138.9	0.00000	48.800	2090.1	2090.1	32.309	6451.4	mg/
		2256.7	0.00000	46.700	2210.0	2210.0	34.159	6821.0	mg/
Cu	324.754	3724.0	0.00000	136.00	3588.0	3588.0	2.7719	553.50	mg/
		3570.0	0.00000	138.00	3432.0	3432.0	2.6512	529.39	mg/
		3628.0	0.00000	136.00	3492.0	3492.0	2.6976	538.66	mg/
Ag	328.068	176.80	0.00000	175.10	1.7000	1.7000	-0.00251	-0.50161	mg/
		180.20	0.00000	169.00	11.200	11.200	0.00487	0.97218	mg/
		184.90	0.00000	165.70	19.200	19.200	0.01108	2.2133	mg/
Ti	334.941	1587.0	0.00000	59.000	1528.0	1528.0	1.2472	249.04	mg/
		1534.0	0.00000	60.000	1474.0	1474.0	1.2030	240.21	mg/

		1300.0	0.00000	450.00	850.00	850.00	0.06359	12.698	mg/
		1310.0	0.00000	450.00	860.00	860.00	0.06433	12.846	mg/
Mg	383.826	6236.0	330.00	0.00000	5906.0	5906.0	18.104	3615.1	mg/
		6181.0	334.00	0.00000	5847.0	5847.0	17.924	3579.0	mg/
		6165.0	329.00	0.00000	5836.0	5836.0	17.890	3572.3	mg/
Ca	393.366	486720	0.00000	370.00	486350	486350	33.374	6664.1	mg/
		479630	0.00000	380.00	479250	479250	32.886	6566.7	mg/
		475730	0.00000	380.00	475350	475350	32.618	6513.2	mg/
Al	396.152	9259.2	0.00000	96.900	9162.3	9162.3	60.696	12120	mg/
		8948.2	0.00000	94.000	8854.2	8854.2	58.654	11712	mg/
		8871.3	0.00000	96.900	8774.4	8774.4	58.125	11606	mg/
Sr	421.552	2760.0	210.00	0.00000	2550.0	2550.0	0.15070	30.092	mg/
		2830.0	200.00	0.00000	2630.0	2630.0	0.15545	31.041	mg/
		2710.0	210.00	0.00000	2500.0	2500.0	0.14773	29.499	mg/
Zn	481.053	423.30	0.00000	108.40	314.90	314.90	16.708	3336.2	mg/
		419.40	0.00000	104.70	314.70	314.70	16.697	3334.1	mg/
		416.30	0.00000	107.20	309.10	309.10	16.398	3274.4	mg/
Ba	493.409	28500	370.00	0.00000	28130	28130	1.5219	303.89	mg/
		28940	370.00	0.00000	28570	28570	1.5457	308.64	mg/
		29110	370.00	0.00000	28740	28740	1.5549	310.48	mg/
Na	588.995	667.00	110.00	0.00000	557.00	557.00	2.3093	461.11	mg/
		632.00	112.00	0.00000	520.00	520.00	2.1625	431.82	mg/
		657.00	109.00	0.00000	548.00	548.00	2.2736	453.99	mg/
Li	670.784	45.800	0.00000	14.600	31.200	31.200	0.05740	11.461	mg/
		46.000	0.00000	15.200	30.800	30.800	0.05664	11.310	mg/
		46.700	0.00000	14.700	32.000	32.000	0.05891	11.762	mg/
K	766.490	401.40	0.00000	28.700	372.70	372.70	10.666	2129.8	mg/
		398.50	0.00000	30.300	368.20	368.20	10.537	2104.1	mg/
		409.50	0.00000	28.200	381.30	381.30	10.913	2179.1	mg/
K	769.896	453.80	0.00000	47.400	406.40	406.40	10.874	2171.3	mg/
		468.50	0.00000	49.300	419.20	419.20	11.217	2239.8	mg/
		435.70	0.00000	45.000	390.70	390.70	10.454	2087.4	mg/

----- 12:10:10 7/ 7/99 ----- Method: JYSED5

Sample 99IE19D03-990086- 12

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.15770	31.490 mg/L	7.6731	24
Tl	190.864	0.50445	100.73 mg/L	16.821	17
Tl	190.883	0.15126	30.205 mg/L	9.8614	33
As	193.759	0.02017	4.0275 mg/L	3.7483	93
Se	196.090	-0.00145	-0.28945 mg/L	10.086	+o***
Mo	202.030	0.00518	1.0342 mg/L	1.3541	130
Se	203.985	-0.01752	-3.4980 mg/L	18.185	520
Cr	205.552	0.18082	36.107 mg/L	0.89835	2.5
Sb	206.833	0.01731	3.4565 mg/L	4.9719	140
Zn	213.856	17.520	3498.4 mg/L	69.613	2.0
Sb	217.581	-0.01789	-3.5718 mg/L	4.4708	130
Pb	220.353	1.4329	286.13 mg/L	3.9763	1.4
Co	228.616	0.04893	9.7697 mg/L	1.8180	19
Cd	228.802	0.14187	28.328 mg/L	1.6319	5.8
Ni	231.604	1.7618	351.79 mg/L	11.125	3.2
Be	234.861	0.00501	1.0001 mg/L	0.20001	20
B	249.678	0.15376	30.703 mg/L	0.99069	3.2
Mn	257.610	0.90258	180.23 mg/L	3.9942	2.2
Fe	259.940	127.83	25524 mg/L	673.23	2.6
Fe	271.441	133.98	26753 mg/L	436.93	1.6
Mg	279.553	18.914	3776.8 mg/L	37.884	1.0
V	292.402	0.14516	28.986 mg/L	0.97259	3.4
Al	308.215	61.502	12281 mg/L	191.85	1.6
Ca	315.887	32.854	6560.3 mg/L	226.72	3.5

Ti	334.941	1.2204	243.70	mg/L	4.6955	1.9
Y	371.030	0.06335	12.649	mg/L	0.22555	1.8
Mg	383.826	17.973	3588.8	mg/L	22.991	0.64
Ca	393.366	32.959	6581.3	mg/L	76.487	1.2
Al	396.152	59.158	11813	mg/L	271.03	2.3
Sr	421.552	0.15130	30.211	mg/L	0.77790	2.6
Zn	481.053	16.601	3314.9	mg/L	35.093	1.1
Ba	493.409	1.5408	307.67	mg/L	3.4004	1.1
Na	588.995	2.2484	448.97	mg/L	15.279	3.4
Li	670.784	0.05765	11.511	mg/L	0.23035	2.0
K	766.490	10.705	2137.7	mg/L	38.105	1.8
K	769.896	10.848	2166.2	mg/L	76.304	3.5

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010782nm #Steps = 23.95

Measurements for 99IE19S04-990086- 13

Sn	189.989	10.900	0.00000	8.0000	2.9000	2.9000	0.12832	24.106	mg/
		14.200	0.00000	8.3000	5.9000	5.9000	0.21648	40.668	mg/
		12.400	0.00000	8.6000	3.8000	3.8000	0.15477	29.075	mg/
Tl	190.864	29.720	13.980	0.00000	15.740	15.740	0.49817	93.588	mg/
		27.700	15.060	0.00000	12.640	12.640	0.39736	74.650	mg/
		28.960	13.240	0.00000	15.720	15.720	0.49752	93.466	mg/
Tl	190.883	15.560	13.520	0.00000	2.0400	2.0400	0.17039	32.010	mg/
		15.320	13.960	0.00000	1.3600	1.3600	0.12605	23.681	mg/
		15.280	14.200	0.00000	1.0800	1.0800	0.10780	20.251	mg/
As	193.759	44.980	49.000	29.840	0.08571	0.08571	-0.00631	-1.1845	mg/
		43.900	47.980	30.360	-0.30429	-0.30429	-0.01564	-2.9388	mg/
		45.360	49.040	28.720	0.67428	0.67428	0.00779	1.4630	mg/
Se	196.090	7.5400	0.00000	8.9600	-1.4200	-1.4200	-0.08069	-15.159	mg/
		7.6000	0.00000	8.5800	-0.98000	-0.98000	-0.04880	-9.1681	mg/
		8.5800	0.00000	8.4600	0.12000	0.12000	0.03092	5.8095	mg/
Mo	202.030	4.0000	4.2000	0.00000	-0.20000	-0.20000	-0.00296	-0.55602	mg/
		4.0000	4.1000	0.00000	-0.10000	-0.10000	-0.00074	-0.13900	mg/
		4.2000	3.8000	0.00000	0.40000	0.40000	0.01036	1.9461	mg/
Se	203.985	22.100	0.00000	20.120	1.9800	1.9800	0.10096	18.967	mg/
		22.600	0.00000	21.680	0.92000	0.92000	0.02766	5.1963	mg/
		21.740	0.00000	21.000	0.74000	0.74000	0.01521	2.8580	mg/
Cr	205.552	12.200	0.00000	2.7000	9.5000	9.5000	0.20388	38.301	mg/
		11.900	0.00000	2.8000	9.1000	9.1000	0.19523	36.677	mg/
		11.700	0.00000	2.8000	8.9000	8.9000	0.19091	35.865	mg/
Sb	206.833	26.980	0.00000	25.740	1.2400	1.2400	0.01047	1.9672	mg/
		27.180	0.00000	25.140	2.0400	2.0400	0.02329	4.3761	mg/
		26.360	0.00000	24.620	1.7400	1.7400	0.01849	3.4727	mg/
Zn	213.856	615.90	0.00000	2.1000	613.80	613.80	11.540	2167.9	mg/
		618.70	0.00000	1.9000	616.80	616.80	11.596	2178.5	mg/
		619.80	0.00000	1.9000	617.90	617.90	11.617	2182.4	mg/
Sb	217.581	24.420	0.00000	24.080	0.34000	0.34000	-0.00711	-1.3365	mg/
		22.820	0.00000	25.880	-3.0600	-3.0600	-0.05895	-11.074	mg/
		23.940	0.00000	24.260	-0.32000	-0.32000	-0.01718	-3.2268	mg/
Pb	220.353	78.240	25.680	28.700	50.784	50.784	0.89926	168.94	mg/
		79.620	25.200	27.960	52.796	52.796	0.93468	175.59	mg/
		78.300	26.300	27.760	51.141	51.141	0.90555	170.12	mg/
Co	228.616	9.4000	0.00000	4.5000	4.9000	4.9000	0.05782	10.863	mg/
		8.2000	0.00000	4.7000	3.5000	3.5000	0.04084	7.6723	mg/
		8.7000	0.00000	4.9000	3.8000	3.8000	0.04448	8.3559	mg/
Cd	228.802	3.9000	0.00000	2.3000	1.6000	1.6000	0.02937	5.5182	mg/
		4.1000	0.00000	2.2000	1.9000	1.9000	0.03500	6.5748	mg/
		4.3000	0.00000	2.0000	2.3000	2.3000	0.04250	7.9837	mg/
Ni	231.604	131.30	0.00000	6.1000	125.20	125.20	1.8890	354.87	mg/
		132.90	0.00000	6.4000	126.50	126.50	1.9086	358.56	mg/
		125.20	0.00000	6.2000	119.00	119.00	1.7955	337.30	mg/
Be	234.861	15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1291	mg/

B	249.678	103.00	0.00000	13.200	89.800	89.800	0.17964	33.748	mg/
		102.80	0.00000	13.300	89.500	89.500	0.17899	33.626	mg/
		99.300	0.00000	12.500	86.800	86.800	0.17315	32.529	mg/
Mn	257.610	1237.0	0.00000	13.000	1224.0	1224.0	1.3206	248.09	mg/
		1236.0	0.00000	13.000	1223.0	1223.0	1.3195	247.88	mg/
		1230.0	0.00000	12.000	1218.0	1218.0	1.3141	246.87	mg/
Fe	259.940	10247	0.00000	13.000	10234	10234	119.00	22356	mg/
		10309	0.00000	13.000	10296	10296	119.72	22491	mg/
		10328	0.00000	12.000	10316	10316	119.95	22535	mg/
Fe	271.441	212.50	2.3000	0.00000	210.20	210.20	122.20	22956	mg/
		212.50	2.3000	0.00000	210.20	210.20	122.20	22956	mg/
		219.60	2.3000	0.00000	217.30	217.30	126.32	23732	mg/
Mg	279.553	36425	0.00000	23.000	36402	36402	33.675	6326.3	mg/
		37226	0.00000	22.000	37204	37204	34.417	6465.7	mg/
		36817	0.00000	22.000	36795	36795	34.039	6394.6	mg/
V	292.402	39.000	11.100	0.00000	27.900	27.900	0.18269	34.320	mg/
		40.200	12.000	0.00000	28.200	28.200	0.18462	34.683	mg/
		40.100	11.300	0.00000	28.800	28.800	0.18848	35.408	mg/
Al	308.215	285.40	2.6000	0.00000	282.80	282.80	82.635	15524	mg/
		285.30	2.7000	0.00000	282.60	282.60	82.577	15513	mg/
		290.40	3.0000	0.00000	287.40	287.40	83.979	15777	mg/
Ca	315.887	7035.2	0.00000	55.000	6980.2	6980.2	107.78	20249	mg/
		6862.0	0.00000	56.500	6805.5	6805.5	105.09	19742	mg/
		7070.2	0.00000	57.600	7012.6	7012.6	108.28	20343	mg/
Cu	324.754	4910.0	0.00000	135.00	4775.0	4775.0	3.6909	693.39	mg/
		4832.0	0.00000	137.00	4695.0	4695.0	3.6290	681.76	mg/
		4821.0	0.00000	135.00	4686.0	4686.0	3.6220	680.45	mg/
Ag	328.068	182.20	0.00000	174.20	8.0000	8.0000	0.00238	0.44760	mg/
		186.30	0.00000	171.20	15.100	15.100	0.00790	1.4839	mg/
		183.70	0.00000	170.30	13.400	13.400	0.00658	1.2358	mg/
Ti	334.941	1397.0	0.00000	62.000	1335.0	1335.0	1.0892	204.62	mg/
		1392.0	0.00000	62.000	1330.0	1330.0	1.0851	203.85	mg/
		1387.0	0.00000	61.000	1326.0	1326.0	1.0818	203.24	mg/
Y	371.030	1320.0	0.00000	450.00	870.00	870.00	0.06507	12.225	mg/
		1300.0	0.00000	450.00	850.00	850.00	0.06359	11.947	mg/
		1300.0	0.00000	440.00	860.00	860.00	0.06433	12.086	mg/
Mg	383.826	11739	342.00	0.00000	11397	11397	34.899	6556.3	mg/
		11267	350.00	0.00000	10917	10917	33.431	6280.5	mg/
		11866	351.00	0.00000	11515	11515	35.260	6624.1	mg/
Ca	393.366	+o******	0.00000	900.00	+o******	+o******	82.327	15466	mg/>
		+o******	0.00000	910.00	+o******	+o******	82.327	15466	mg/>
		+o******	0.00000	890.00	+o******	+o******	82.328	15466	mg/>
Al	396.152	11670	0.00000	127.00	11543	11543	76.470	14366	mg/
		11767	0.00000	127.00	11640	11640	77.113	14487	mg/
		11778	0.00000	126.00	11652	11652	77.193	14502	mg/
Sr	421.552	3870.0	220.00	0.00000	3650.0	3650.0	0.21605	40.588	mg/
		3930.0	220.00	0.00000	3710.0	3710.0	0.21962	41.258	mg/
		4120.0	220.00	0.00000	3900.0	3900.0	0.23090	43.379	mg/
Zn	481.053	305.40	0.00000	98.700	206.70	206.70	10.932	2053.8	mg/
		313.40	0.00000	104.70	208.70	208.70	11.039	2073.8	mg/
		307.40	0.00000	105.00	202.40	202.40	10.703	2010.6	mg/
Ba	493.409	23980	360.00	0.00000	23620	23620	1.2779	240.07	mg/
		23890	370.00	0.00000	23520	23520	1.2725	239.06	mg/
		24150	360.00	0.00000	23790	23790	1.2871	241.80	mg/
Na	588.995	514.00	104.00	0.00000	410.00	410.00	1.7263	324.31	mg/
		504.00	111.00	0.00000	393.00	393.00	1.6589	311.65	mg/
		511.00	105.00	0.00000	406.00	406.00	1.7105	321.33	mg/
Li	670.784	53.300	0.00000	15.200	38.100	38.100	0.07042	13.230	mg/
		54.800	0.00000	15.100	39.700	39.700	0.07344	13.797	mg/
		55.300	0.00000	14.800	40.500	40.500	0.07495	14.081	mg/
K	766.490	549.40	0.00000	29.700	519.70	519.70	14.881	2795.5	mg/
		545.30	0.00000	30.800	514.50	514.50	14.732	2767.5	mg/
		557.80	0.00000	28.700	529.10	529.10	15.150	2846.2	mg/
K	769.896	614.70	0.00000	48.300	566.40	566.40	15.157	2847.5	mg/

----- 12:18:05 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S04-990086- 13

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.16652	31.283 mg/L	8.4988	27
Tl	190.864	0.46435	87.235 mg/L	10.898	12
Tl	190.883	0.13475	25.314 mg/L	6.0472	24
As	193.759	-0.00472	-0.88680 mg/L	2.2160	250
Se	196.090	-0.03286	-6.1726 mg/L	10.800	180
Mo	202.030	0.00222	0.41701 mg/L	1.3405	320
Se	203.985	0.04794	9.0069 mg/L	8.7041	97
Cr	205.552	0.19667	36.948 mg/L	1.2404	3.4
Sb	206.833	0.01742	3.2720 mg/L	1.2169	37
Zn	213.856	11.584	2176.3 mg/L	7.5022	0.34
Sb	217.581	-0.02775	-5.2125 mg/L	5.1636	99
Pb	220.353	0.91317	171.55 mg/L	3.5504	2.1
Co	228.616	0.04771	8.9636 mg/L	1.6798	19
Cd	228.802	0.03562	6.6922 mg/L	1.2370	18
Ni	231.604	1.8643	350.24 mg/L	11.357	3.2
Be	234.861	0.00601	1.1291 mg/L	0.00000	0.00
B	249.678	0.17726	33.301 mg/L	0.67127	2.0
Mn	257.610	1.3180	247.61 mg/L	0.65225	0.26
Fe	259.940	119.56	22461 mg/L	93.401	0.42
Fe	271.441	123.57	23215 mg/L	447.75	1.9
Mg	279.553	34.043	6395.5 mg/L	69.704	1.1
V	292.402	0.18526	34.804 mg/L	0.55379	1.6
Al	308.215	83.064	15605 mg/L	149.04	0.96
Ca	315.887	107.05	20111 mg/L	323.01	1.6
Cu	324.754	3.6473	685.20 mg/L	7.1259	1.0
Ag	328.068	0.00562	1.0557 mg/L	0.54109	51
Ti	334.941	1.0854	203.90 mg/L	0.69340	0.34
Y	371.030	0.06433	12.086 mg/L	0.13892	1.1
Mg	383.826	34.530	6487.0 mg/L	182.00	2.8
Ca >	393.366	+o********	+o******** mg/L	0.12903	0.00
Al	396.152	76.925	14452 mg/L	74.402	0.51
Sr	421.552	0.22219	41.742 mg/L	1.4566	3.5
Zn	481.053	10.891	2046.1 mg/L	32.283	1.6
Ba	493.409	1.2792	240.31 mg/L	1.3872	0.58
Na	588.995	1.6986	319.10 mg/L	6.6215	2.1
Li	670.784	0.07294	13.703 mg/L	0.43344	3.2
K	766.490	14.921	2803.1 mg/L	39.857	1.4
K	769.896	15.404	2893.9 mg/L	48.952	1.7

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010766nm #Steps = 23.92

Measurements for 99IE19S05-990086- 14

Sn	189.989	10.500	0.00000	9.8000	0.70000	0.70000	0.06367	12.428	mg/
		10.100	0.00000	8.2000	1.9000	1.9000	0.09893	19.311	mg/
		10.700	0.00000	8.9000	1.8000	1.8000	0.09599	18.738	mg/
Tl	190.864	23.560	13.480	0.00000	10.080	10.080	0.31412	61.315	mg/
		22.400	13.780	0.00000	8.6200	8.6200	0.26664	52.048	mg/
		23.440	12.820	0.00000	10.620	10.620	0.33168	64.743	mg/
Tl	190.883	13.760	14.300	0.00000	-0.54000	-0.54000	0.00217	0.42423	mg/
		13.540	13.360	0.00000	0.18000	0.18000	0.04912	9.5877	mg/
		12.780	13.880	0.00000	-1.1000	-1.1000	-0.03434	-6.7029	mg/
As	193.759	35.700	38.360	23.960	0.42571	0.42571	0.00184	0.35832	mg/
		33.380	34.640	26.720	0.43714	0.43714	0.00211	0.41174	mg/
		33.920	32.920	23.680	2.9800	2.9800	0.06300	12.297	mg/

		7.1400	0.00000	7.5400	-0.40000	-0.40000	-0.00676	-1.3204	mg/
Mo	202.030	4.0000	3.9000	0.00000	0.10000	0.10000	0.00370	0.72215	mg/
		3.7000	3.3000	0.00000	0.40000	0.40000	0.01036	2.0220	mg/
		3.9000	3.8000	0.00000	0.10000	0.10000	0.00370	0.72215	mg/
Se	203.985	18.880	0.00000	18.540	0.34000	0.34000	-0.01245	-2.4296	mg/
		19.340	0.00000	18.320	1.0200	1.0200	0.03457	6.7490	mg/
		20.360	0.00000	18.020	2.3400	2.3400	0.12585	24.566	mg/
Cr	205.552	14.700	0.00000	2.5000	12.200	12.200	0.26223	51.187	mg/
		15.500	0.00000	2.5000	13.000	13.000	0.27952	54.562	mg/
		14.300	0.00000	2.7000	11.600	11.600	0.24926	48.655	mg/
Sb	206.833	24.140	0.00000	21.460	2.6800	2.6800	0.03355	6.5492	mg/
		21.400	0.00000	21.940	-0.54000	-0.54000	-0.01806	-3.5249	mg/
		22.740	0.00000	21.560	1.1800	1.1800	0.00951	1.8563	mg/
Zn	213.856	473.60	0.00000	2.0000	471.60	471.60	8.8640	1730.2	mg/
		462.20	0.00000	1.9000	460.30	460.30	8.6514	1688.7	mg/
		472.80	0.00000	1.8000	471.00	471.00	8.8527	1728.0	mg/
Sb	217.581	23.280	0.00000	23.380	-0.10000	-0.10000	-0.01382	-2.6981	mg/
		22.960	0.00000	23.280	-0.32000	-0.32000	-0.01718	-3.3528	mg/
		22.460	0.00000	22.200	0.26000	0.26000	-0.00833	-1.6268	mg/
Pb	220.353	184.94	24.500	28.620	158.02	158.02	2.7863	543.88	mg/
		184.32	26.160	28.140	157.00	157.00	2.7683	540.38	mg/
		185.78	25.580	26.880	159.44	159.44	2.8113	548.76	mg/
Co	228.616	7.5000	0.00000	4.6000	2.9000	2.9000	0.03356	6.5511	mg/
		7.9000	0.00000	4.4000	3.5000	3.5000	0.04084	7.9718	mg/
		7.6000	0.00000	4.5000	3.1000	3.1000	0.03599	7.0246	mg/
Cd	228.802	5.1000	0.00000	2.2000	2.9000	2.9000	0.05375	10.491	mg/
		4.8000	0.00000	2.1000	2.7000	2.7000	0.05000	9.7593	mg/
		4.9000	0.00000	2.0000	2.9000	2.9000	0.05375	10.491	mg/
Ni	231.604	50.000	0.00000	5.7000	44.300	44.300	0.66871	130.53	mg/
		51.400	0.00000	6.3000	45.100	45.100	0.68078	132.89	mg/
		49.600	0.00000	6.4000	43.200	43.200	0.65212	127.29	mg/
Be	234.861	13.000	0.00000	8.0000	5.0000	5.0000	0.00501	0.97762	mg/
		13.000	0.00000	9.0000	4.0000	4.0000	0.00401	0.78210	mg/
		13.000	0.00000	9.0000	4.0000	4.0000	0.00401	0.78210	mg/
B	249.678	83.700	0.00000	12.700	71.000	71.000	0.13898	27.129	mg/
		82.100	0.00000	10.600	71.500	71.500	0.14006	27.340	mg/
		84.200	0.00000	12.700	71.500	71.500	0.14006	27.340	mg/
Mn	257.610	994.00	0.00000	12.000	982.00	982.00	1.0592	206.75	mg/
		990.00	0.00000	12.000	978.00	978.00	1.0549	205.91	mg/
		972.00	0.00000	12.000	960.00	960.00	1.0354	202.11	mg/
Fe	259.940	6547.6	0.00000	6.0000	6541.6	6541.6	76.064	14848	mg/
		6503.3	0.00000	6.3000	6497.0	6497.0	75.545	14746	mg/
		6631.5	0.00000	6.2000	6625.3	6625.3	77.037	15037	mg/
Fe	271.441	133.50	2.3000	0.00000	131.20	131.20	76.263	14886	mg/
		127.30	2.4000	0.00000	124.90	124.90	72.600	14171	mg/
		134.90	2.3000	0.00000	132.60	132.60	77.077	15045	mg/
Mg	279.553	52776	0.00000	30.000	52746	52746	48.797	9525.0	mg/
		53136	0.00000	30.000	53106	53106	49.130	9590.0	mg/
		51897	0.00000	30.000	51867	51867	47.983	9366.3	mg/
V	292.402	37.200	8.9000	0.00000	28.300	28.300	0.18526	36.163	mg/
		34.500	10.300	0.00000	24.200	24.200	0.15889	31.014	mg/
		35.100	9.2000	0.00000	25.900	25.900	0.16982	33.149	mg/
Al	308.215	183.80	2.3000	0.00000	181.50	181.50	53.039	10353	mg/
		178.60	2.6000	0.00000	176.00	176.00	51.432	10039	mg/
		190.10	3.0000	0.00000	187.10	187.10	54.675	10672	mg/
Ca	315.887	19529	0.00000	90.000	19439	19439	300.07	58574	mg/
		19968	0.00000	90.000	19878	19878	306.85	59897	mg/
		19376	0.00000	90.000	19286	19286	297.71	58113	mg/
Cu	324.754	1598.0	0.00000	123.00	1475.0	1475.0	1.1360	221.75	mg/
		1557.0	0.00000	117.00	1440.0	1440.0	1.1089	216.46	mg/
		1624.0	0.00000	121.00	1503.0	1503.0	1.1577	225.98	mg/
Ag	328.068	174.60	0.00000	166.30	8.3000	8.3000	0.00262	0.51057	mg/
		182.60	0.00000	169.90	12.700	12.700	0.00603	1.1778	mg/
		179.10	0.00000	170.50	8.6000	8.6000	0.00285	0.55606	mg/

		1336.0	0.00000	71.000	1265.0	1265.0	1.0319	201.42	mg/
Y	371.030	1120.0	0.00000	440.00	680.00	680.00	0.05102	9.9596	mg/
		1110.0	0.00000	460.00	650.00	650.00	0.04880	9.5265	mg/
		1130.0	0.00000	450.00	680.00	680.00	0.05102	9.9596	mg/
Mg	383.826	17877	376.00	0.00000	17501	17501	53.569	10457	mg/
		17822	373.00	0.00000	17449	17449	53.410	10426	mg/
		17452	379.00	0.00000	17073	17073	52.260	10201	mg/
Ca	393.366	+o******	0.00000	2340.0	+o******	+o******	82.229	16051	mg/>
		+o******	0.00000	2270.0	+o******	+o******	82.233	16052	mg/>
		+o******	0.00000	2330.0	+o******	+o******	82.229	16051	mg/>
Al	396.152	7695.3	0.00000	159.60	7535.7	7535.7	49.917	9743.8	mg/
		7656.4	0.00000	156.30	7500.1	7500.1	49.681	9697.7	mg/
		7599.1	0.00000	153.20	7445.9	7445.9	49.322	9627.6	mg/
Sr	421.552	6820.0	240.00	0.00000	6580.0	6580.0	0.39012	76.151	mg/
		6500.0	230.00	0.00000	6270.0	6270.0	0.37171	72.556	mg/
		6820.0	230.00	0.00000	6590.0	6590.0	0.39072	76.267	mg/
Zn	481.053	262.70	0.00000	103.80	158.90	158.90	8.3806	1635.9	mg/
		263.30	0.00000	105.10	158.20	158.20	8.3432	1628.6	mg/
		256.50	0.00000	104.40	152.10	152.10	8.0176	1565.0	mg/
Ba	493.409	15950	360.00	0.00000	15590	15590	0.84352	164.65	mg/
		15390	350.00	0.00000	15040	15040	0.81377	158.85	mg/
		16120	350.00	0.00000	15770	15770	0.85326	166.55	mg/
Na	588.995	463.00	105.00	0.00000	358.00	358.00	1.5201	296.72	mg/
		463.00	110.00	0.00000	353.00	353.00	1.5003	292.85	mg/
		469.00	105.00	0.00000	364.00	364.00	1.5439	301.37	mg/
Li	670.784	43.100	0.00000	15.600	27.500	27.500	0.05041	9.8399	mg/
		42.800	0.00000	15.400	27.400	27.400	0.05022	9.8030	mg/
		44.200	0.00000	14.900	29.300	29.300	0.05381	10.503	mg/
K	766.490	403.70	0.00000	30.000	373.70	373.70	10.695	2087.6	mg/
		387.60	0.00000	29.100	358.50	358.50	10.259	2002.6	mg/
		389.30	0.00000	26.500	362.80	362.80	10.382	2026.6	mg/
K	769.896	443.10	0.00000	49.300	393.80	393.80	10.537	2056.8	mg/
		466.20	0.00000	49.100	417.10	417.10	11.160	2178.5	mg/
		449.50	0.00000	47.200	402.30	402.30	10.764	2101.2	mg/

----- 12:26:01 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S05-990086- 14

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.08620	16.826 mg/L	3.8193	23
Tl	190.864	0.30415	59.369 mg/L	6.5674	11
Tl	190.883	0.00565	1.1030 mg/L	8.1665	740
As	193.759	0.02231	4.3555 mg/L	6.8772	160
Se	196.090	0.00338	0.66022 mg/L	5.7780	880
Mo	202.030	0.00592	1.1554 mg/L	0.75048	65
Se	203.985	0.04933	9.6285 mg/L	13.726	140
Cr	205.552	0.26367	51.468 mg/L	2.9631	5.8
Sb	206.833	0.00833	1.6269 mg/L	5.0410	310
Zn	213.856	8.7894	1715.7 mg/L	23.354	1.4
Sb	217.581	-0.01311	-2.5592 mg/L	0.87133	34
Pb	220.353	2.7887	544.34 mg/L	4.2093	0.77
Co	228.616	0.03680	7.1825 mg/L	0.72339	10
Cd	228.802	0.05250	10.247 mg/L	0.42259	4.1
Ni	231.604	0.66720	130.24 mg/L	2.8087	2.2
Be	234.861	0.00434	0.84727 mg/L	0.11289	13
B	249.678	0.13970	27.270 mg/L	0.12186	0.45
Mn	257.610	1.0498	204.92 mg/L	2.4707	1.2
Fe	259.940	76.215	14877 mg/L	147.85	0.99
Fe	271.441	75.314	14701 mg/L	465.50	3.2
Mg	279.553	48.637	9493.8 mg/L	115.11	1.2
V	292.402	0.17132	33.442 mg/L	2.5865	7.7

Cu	324.754	1.1342	221.40	mg/L	4.7702	2.1
Ag	328.068	0.00383	0.74816	mg/L	0.37281	50
Ti	334.941	0.98715	192.69	mg/L	8.0925	4.2
Y	371.030	0.05028	9.8152	mg/L	0.25001	2.5
Mg	383.826	53.080	10361	mg/L	139.44	1.3
Ca >	393.366	+o********	+o********	mg/L	0.50757	0.00
Al	396.152	49.640	9689.7	mg/L	58.488	0.60
Sr	421.552	0.38418	74.991	mg/L	2.1098	2.8
Zn	481.053	8.2471	1609.8	mg/L	38.973	2.4
Ba	493.409	0.83685	163.35	mg/L	4.0157	2.5
Na	588.995	1.5214	296.98	mg/L	4.2632	1.4
Li	670.784	0.05148	10.049	mg/L	0.39406	3.9
K	766.490	10.445	2038.9	mg/L	43.848	2.1
K	769.896	10.821	2112.1	mg/L	61.614	2.9

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010723nm #Steps = 23.82

Measurements for WASH- - 15

Sn	189.989	5.2000	0.00000	5.0000	0.20000	0.20000	0.04898	mg/
		6.1000	0.00000	7.3000	-1.2000	-1.2000	0.00784	mg/
		7.4000	0.00000	7.7000	-0.30000	-0.30000	0.03428	mg/
Tl	190.864	11.020	10.940	0.00000	0.08000	0.08000	-0.01106	mg/
		11.400	10.220	0.00000	1.1800	1.1800	0.02471	mg/
		10.980	10.920	0.00000	0.06000	0.06000	-0.01171	mg/
Tl	190.883	10.800	9.8400	0.00000	0.96000	0.96000	0.09997	mg/
		9.3800	9.3800	0.00000	0.00000	0.00000	0.03738	mg/
		8.3200	9.2200	0.00000	-0.90000	-0.90000	-0.02130	mg/
As	193.759	15.240	14.320	14.240	0.93714	0.93714	0.01408	mg/
		13.840	12.200	13.720	1.3143	1.3143	0.02311	mg/
		12.360	12.360	14.460	-0.45000	-0.45000	-0.01913	mg/
Se	196.090	5.3800	0.00000	5.3600	0.02000	0.02000	0.02368	mg/
		5.5200	0.00000	5.0400	0.48000	0.48000	0.05702	mg/
		5.6400	0.00000	5.4600	0.18000	0.18000	0.03527	mg/
Mo	202.030	3.0000	2.4000	0.00000	0.60000	0.60000	0.01480	mg/
		2.5000	2.5000	0.00000	0.00000	0.00000	0.00148	mg/
		2.4000	2.5000	0.00000	-0.10000	-0.10000	-0.00074	mg/
Se	203.985	12.420	0.00000	12.140	0.28000	0.28000	-0.01660	mg/
		12.060	0.00000	12.700	-0.64000	-0.64000	-0.08021	mg/
		11.960	0.00000	12.380	-0.42000	-0.42000	-0.06500	mg/
Cr	205.552	1.7000	0.00000	1.8000	-0.10000	-0.10000	-0.00360	mg/
		2.0000	0.00000	1.9000	0.10000	0.10000	0.00072	mg/
		1.8000	0.00000	1.9000	-0.10000	-0.10000	-0.00360	mg/
Sb	206.833	15.560	0.00000	14.920	0.64000	0.64000	0.00085	mg/
		16.040	0.00000	14.960	1.0800	1.0800	0.00791	mg/
		15.940	0.00000	15.740	0.20000	0.20000	-0.00620	mg/
Zn	213.856	1.8000	0.00000	1.5000	0.30000	0.30000	-0.00502	mg/
		1.8000	0.00000	1.5000	0.30000	0.30000	-0.00502	mg/
		1.7000	0.00000	1.4000	0.30000	0.30000	-0.00502	mg/
Sb	217.581	18.960	0.00000	20.080	-1.1200	-1.1200	-0.02937	mg/
		19.200	0.00000	19.280	-0.08000	-0.08000	-0.01352	mg/
		19.220	0.00000	20.400	-1.1800	-1.1800	-0.03029	mg/
Pb	220.353	23.360	22.640	23.480	0.22588	0.22588	0.00956	mg/
		22.520	22.780	23.680	-0.78941	-0.78941	-0.00831	mg/
		22.860	22.140	23.260	0.06118	0.06118	0.00666	mg/
Co	228.616	4.0000	0.00000	4.5000	-0.50000	-0.50000	-0.00768	mg/
		4.3000	0.00000	4.1000	0.20000	0.20000	0.00081	mg/
		5.1000	0.00000	4.4000	0.70000	0.70000	0.00687	mg/
Cd	228.802	2.1000	0.00000	2.1000	0.00000	0.00000	-0.00062	mg/
		2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	mg/
		2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	mg/
Ni	231.604	5.9000	0.00000	5.6000	0.30000	0.30000	0.00503	mg/
		6.0000	0.00000	6.0000	0.00000	0.00000	0.00050	mg/

		8.0000	0.00000	7.0000	1.0000	1.0000	0.00100	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	0.00000	mg/
B	249.678	19.900	0.00000	12.400	7.5000	7.5000	0.00166	mg/
		19.100	0.00000	12.800	6.3000	6.3000	-0.00094	mg/
		20.400	0.00000	11.100	9.3000	9.3000	0.00555	mg/
Mn	257.610	10.000	0.00000	11.000	-1.0000	-1.0000	-0.00252	mg/
		10.000	0.00000	11.000	-1.0000	-1.0000	-0.00252	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
Fe	259.940	3.0000	0.00000	3.2000	-0.20000	-0.20000	-0.00659	mg/
		2.9000	0.00000	3.3000	-0.40000	-0.40000	-0.00892	mg/
		2.9000	0.00000	3.0000	-0.10000	-0.10000	-0.00543	mg/
Fe	271.441	2.2000	2.1000	0.00000	0.10000	0.10000	0.03876	mg/
		2.1000	2.2000	0.00000	-0.10000	-0.10000	-0.07752	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	7.0000	0.00000	6.0000	1.0000	1.0000	-0.00370	mg/
		7.0000	0.00000	6.0000	1.0000	1.0000	-0.00370	mg/
		6.0000	0.00000	7.0000	-1.0000	-1.0000	-0.00555	mg/
V	292.402	6.7000	6.6000	0.00000	0.10000	0.10000	0.00386	mg/
		5.7000	5.5000	0.00000	0.20000	0.20000	0.00450	mg/
		6.6000	6.6000	0.00000	0.00000	0.00000	0.00322	mg/
Al	308.215	2.4000	2.2000	0.00000	0.20000	0.20000	0.06817	mg/
		1.8000	2.2000	0.00000	-0.40000	-0.40000	-0.10713	mg/
		2.2000	2.4000	0.00000	-0.20000	-0.20000	-0.04869	mg/
Ca	315.887	38.100	0.00000	42.300	-4.2000	-4.2000	-0.01492	mg/
		38.700	0.00000	44.100	-5.4000	-5.4000	-0.03344	mg/
		39.500	0.00000	44.400	-4.9000	-4.9000	-0.02572	mg/
Cu	324.754	114.00	0.00000	102.00	12.000	12.000	0.00335	mg/
		111.00	0.00000	102.00	9.0000	9.0000	0.00103	mg/
		112.00	0.00000	100.00	12.000	12.000	0.00335	mg/
Ag	328.068	176.00	0.00000	171.20	4.8000	4.8000	-0.00010	mg/
		178.30	0.00000	179.00	-0.70000	-0.70000	-0.00438	mg/
		176.80	0.00000	169.20	7.6000	7.6000	0.00207	mg/
Ti	334.941	57.000	0.00000	54.000	3.0000	3.0000	-0.00109	mg/
		57.000	0.00000	55.000	2.0000	2.0000	-0.00191	mg/
		57.000	0.00000	54.000	3.0000	3.0000	-0.00109	mg/
Y	371.030	430.00	0.00000	430.00	0.00000	0.00000	0.00074	mg/
		430.00	0.00000	450.00	-20.000	-20.000	-0.00074	mg/
		420.00	0.00000	440.00	-20.000	-20.000	-0.00074	mg/
Mg	383.826	295.00	325.00	0.00000	-30.000	-30.000	-0.05200	mg/
		303.00	316.00	0.00000	-13.000	-13.000	0.00000	mg/
		291.00	315.00	0.00000	-24.000	-24.000	-0.03365	mg/
Ca	393.366	120.00	0.00000	120.00	0.00000	0.00000	-0.03022	mg/
		130.00	0.00000	120.00	10.000	10.000	-0.02953	mg/
		130.00	0.00000	120.00	10.000	10.000	-0.02953	mg/
Al	396.152	68.700	0.00000	70.900	-2.2000	-2.2000	-0.03004	mg/
		67.500	0.00000	70.000	-2.5000	-2.5000	-0.03203	mg/
		69.400	0.00000	70.700	-1.3000	-1.3000	-0.02408	mg/
Sr	421.552	200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
		210.00	200.00	0.00000	10.000	10.000	-0.00020	mg/
		200.00	190.00	0.00000	10.000	10.000	-0.00020	mg/
Zn	481.053	108.10	0.00000	103.60	4.5000	4.5000	0.13879	mg/
		105.10	0.00000	106.00	-0.90000	-0.90000	-0.14946	mg/
		111.10	0.00000	106.30	4.8000	4.8000	0.15480	mg/
Ba	493.409	350.00	360.00	0.00000	-10.000	-10.000	-0.00036	mg/
		340.00	350.00	0.00000	-10.000	-10.000	-0.00036	mg/
		340.00	350.00	0.00000	-10.000	-10.000	-0.00036	mg/
Na	588.995	74.000	113.00	0.00000	-39.000	-39.000	-0.05420	mg/
		73.000	112.00	0.00000	-39.000	-39.000	-0.05420	mg/
		75.000	109.00	0.00000	-34.000	-34.000	-0.03437	mg/
Li	670.784	16.100	0.00000	15.900	0.20000	0.20000	-0.00113	mg/
		15.800	0.00000	16.000	-0.20000	-0.20000	-0.00189	mg/
		15.900	0.00000	15.800	0.10000	0.10000	-0.00132	mg/
K	766.490	27.300	0.00000	27.900	-0.60000	-0.60000	-0.03632	mg/
		26.500	0.00000	27.700	-1.2000	-1.2000	-0.05352	mg/

53.400	0.00000	48.400	5.0000	5.0000	0.12850	mg/
52.100	0.00000	48.400	3.7000	3.7000	0.09370	mg/

----- 12:34:00 7/ 7/99 ----- Method: JYSED5

Sample WASH- - 15

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.03037 mg/L	0.02085	69
Tl	190.864	0.00065 mg/L	0.02084	+o***
Tl	190.883	0.03869 mg/L	0.06065	160
As	193.759	0.00602 mg/L	0.02225	370
Se	196.090	0.03865 mg/L	0.01693	44
Mo	202.030	0.00518 mg/L	0.00840	160
Se	203.985	-0.05394 mg/L	0.03322	62
Cr	205.552	-0.00216 mg/L	0.00250	120
Sb	206.833	0.00085 mg/L	0.00705	830
Zn	213.856	-0.00502 mg/L	0.00000	0.00
Sb	217.581	-0.02439 mg/L	0.00943	39
Pb	220.353	0.00264 mg/L	0.00959	360
Co	228.616	0.00000 mg/L	0.00731	+o***
Cd	228.802	0.00062 mg/L	0.00108	170
Ni	231.604	0.00402 mg/L	0.00314	78
Be	234.861	0.00033 mg/L	0.00058	170
B	249.678	0.00209 mg/L	0.00327	160
Mn	257.610	-0.00180 mg/L	0.00125	69
Fe	259.940	-0.00698 mg/L	0.00178	25
Fe	271.441	-0.01938 mg/L	0.05814	300
Mg	279.553	-0.00432 mg/L	0.00107	25
V	292.402	0.00386 mg/L	0.00064	17
Al	308.215	-0.02922 mg/L	0.08926	310
Ca	315.887	-0.02469 mg/L	0.00930	38
Cu	324.754	0.00258 mg/L	0.00134	52
Ag	328.068	-0.00080 mg/L	0.00328	410
Ti	334.941	-0.00136 mg/L	0.00047	35
Y	371.030	-0.00025 mg/L	0.00085	350
Mg	383.826	-0.02855 mg/L	0.02637	92
Ca	393.366	-0.02976 mg/L	0.00040	1.3
Al	396.152	-0.02871 mg/L	0.00414	14
Sr	421.552	-0.00040 mg/L	0.00034	87
Zn	481.053	0.04804 mg/L	0.17123	360
Ba	493.409	-0.00036 mg/L	0.00000	0.00
Na	588.995	-0.04759 mg/L	0.01145	24
Li	670.784	-0.00145 mg/L	0.00039	27
K	766.490	-0.05352 mg/L	0.01720	32
K	769.896	0.09013 mg/L	0.04027	45

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010775nm #Steps = 23.94

Measurements for INSTR BLK 2- - 16

Sn	189.989	5.8000	0.00000	6.7000	-0.90000	-0.90000	0.01665	mg/
		7.2000	0.00000	5.9000	1.3000	1.3000	0.08130	mg/
		5.6000	0.00000	6.6000	-1.0000	-1.0000	0.01371	mg/
Tl	190.864	10.660	11.540	0.00000	-0.88000	-0.88000	-0.04227	mg/
		9.8000	10.780	0.00000	-0.98000	-0.98000	-0.04552	mg/
		10.900	10.860	0.00000	0.04000	0.04000	-0.01236	mg/
Tl	190.883	11.080	10.460	0.00000	0.62000	0.62000	0.07781	mg/
		9.9600	9.9600	0.00000	0.00000	0.00000	0.03738	mg/
		9.6200	10.500	0.00000	-0.88000	-0.88000	-0.01999	mg/
As	193.759	15.360	12.520	14.160	2.4886	2.4886	0.05123	mg/

Se	196.090	4.9000	0.00000	5.2600	-0.36000	-0.36000	-0.00387	mg/
		5.3200	0.00000	5.2200	0.10000	0.10000	0.02947	mg/
		5.2600	0.00000	5.3800	-0.12000	-0.12000	0.01353	mg/
Mo	202.030	2.7000	2.6000	0.00000	0.10000	0.10000	0.00370	mg/
		2.5000	2.5000	0.00000	0.00000	0.00000	0.00148	mg/
		2.6000	2.3000	0.00000	0.30000	0.30000	0.00814	mg/
Se	203.985	11.900	0.00000	12.000	-0.10000	-0.10000	-0.04287	mg/
		12.200	0.00000	11.740	0.46000	0.46000	-0.00415	mg/
		12.360	0.00000	12.380	-0.02000	-0.02000	-0.03734	mg/
Cr	205.552	2.1000	0.00000	2.0000	0.10000	0.10000	0.00072	mg/
		2.0000	0.00000	1.9000	0.10000	0.10000	0.00072	mg/
		2.2000	0.00000	2.2000	0.00000	0.00000	-0.00144	mg/
Sb	206.833	15.960	0.00000	14.920	1.0400	1.0400	0.00727	mg/
		15.020	0.00000	14.520	0.50000	0.50000	-0.00139	mg/
		15.880	0.00000	14.900	0.98000	0.98000	0.00630	mg/
Zn	213.856	2.5000	0.00000	1.6000	0.90000	0.90000	0.00627	mg/
		2.1000	0.00000	1.4000	0.70000	0.70000	0.00251	mg/
		2.4000	0.00000	1.4000	1.0000	1.0000	0.00815	mg/
Sb	217.581	17.900	0.00000	18.420	-0.52000	-0.52000	-0.02023	mg/
		18.080	0.00000	18.480	-0.40000	-0.40000	-0.01840	mg/
		19.060	0.00000	19.040	0.02000	0.02000	-0.01199	mg/
Pb	220.353	22.920	22.620	23.700	-0.33529	-0.33529	-0.00032	mg/
		23.600	22.980	21.540	1.4671	1.4671	0.03140	mg/
		23.040	22.400	22.720	0.45176	0.45176	0.01353	mg/
Co	228.616	4.4000	0.00000	4.3000	0.10000	0.10000	-0.00040	mg/
		4.0000	0.00000	4.3000	-0.30000	-0.30000	-0.00526	mg/
		4.5000	0.00000	4.2000	0.30000	0.30000	0.00202	mg/
Cd	228.802	2.1000	0.00000	1.9000	0.20000	0.20000	0.00312	mg/
		2.2000	0.00000	2.0000	0.20000	0.20000	0.00312	mg/
		2.2000	0.00000	1.9000	0.30000	0.30000	0.00500	mg/
Ni	231.604	5.5000	0.00000	5.6000	-0.10000	-0.10000	-0.00101	mg/
		6.3000	0.00000	6.1000	0.20000	0.20000	0.00352	mg/
		6.1000	0.00000	6.4000	-0.30000	-0.30000	-0.00402	mg/
Be	234.861	8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
		7.0000	0.00000	8.0000	-1.0000	-1.0000	-0.00100	mg/
		7.0000	0.00000	8.0000	-1.0000	-1.0000	-0.00100	mg/
B	249.678	14.400	0.00000	10.800	3.6000	3.6000	-0.00678	mg/
		14.800	0.00000	12.300	2.5000	2.5000	-0.00915	mg/
		13.900	0.00000	10.500	3.4000	3.4000	-0.00721	mg/
Mn	257.610	11.000	0.00000	11.000	0.00000	0.00000	-0.00144	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
		10.000	0.00000	10.000	0.00000	0.00000	-0.00144	mg/
Fe	259.940	3.7000	0.00000	2.9000	0.80000	0.80000	0.00504	mg/
		3.3000	0.00000	3.3000	0.00000	0.00000	-0.00426	mg/
		3.3000	0.00000	3.2000	0.10000	0.10000	-0.00310	mg/
Fe	271.441	2.2000	2.0000	0.00000	0.20000	0.20000	0.09690	mg/
		2.2000	2.1000	0.00000	0.10000	0.10000	0.03876	mg/
		2.1000	2.2000	0.00000	-0.10000	-0.10000	-0.07752	mg/
Mg	279.553	12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
		12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
		12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
V	292.402	6.3000	6.2000	0.00000	0.10000	0.10000	0.00386	mg/
		5.5000	6.3000	0.00000	-0.80000	-0.80000	-0.00193	mg/
		6.7000	6.1000	0.00000	0.60000	0.60000	0.00708	mg/
Al	308.215	2.2000	2.3000	0.00000	-0.10000	-0.10000	-0.01948	mg/
		1.8000	2.7000	0.00000	-0.90000	-0.90000	-0.25321	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	0.00974	mg/
Ca	315.887	40.700	0.00000	43.300	-2.6000	-2.6000	0.00977	mg/
		42.000	0.00000	42.500	-0.50000	-0.50000	0.04219	mg/
		41.700	0.00000	44.200	-2.5000	-2.5000	0.01132	mg/
Cu	324.754	106.00	0.00000	102.00	4.0000	4.0000	-0.00284	mg/
		109.00	0.00000	100.00	9.0000	9.0000	0.00103	mg/
		107.00	0.00000	99.000	8.0000	8.0000	0.00026	mg/
Ag	328.068	176.60	0.00000	170.20	6.4000	6.4000	0.00114	mg/

Ti	334.941	55.000	0.00000	53.000	2.0000	2.0000	-0.00191	mg/
		57.000	0.00000	52.000	5.0000	5.0000	0.00055	mg/
		56.000	0.00000	53.000	3.0000	3.0000	-0.00109	mg/
Y	371.030	410.00	0.00000	420.00	-10.000	-10.000	0.00000	mg/
		410.00	0.00000	420.00	-10.000	-10.000	0.00000	mg/
		420.00	0.00000	410.00	10.000	10.000	0.00148	mg/
Mg	383.826	291.00	304.00	0.00000	-13.000	-13.000	0.00000	mg/
		287.00	297.00	0.00000	-10.000	-10.000	0.00918	mg/
		288.00	303.00	0.00000	-15.000	-15.000	-0.00612	mg/
Ca	393.366	620.00	0.00000	120.00	500.00	500.00	0.00412	mg/
		620.00	0.00000	120.00	500.00	500.00	0.00412	mg/
		640.00	0.00000	120.00	520.00	520.00	0.00549	mg/
Al	396.152	69.200	0.00000	67.400	1.8000	1.8000	-0.00353	mg/
		71.000	0.00000	66.100	4.9000	4.9000	0.01701	mg/
		67.200	0.00000	67.700	-0.50000	-0.50000	-0.01877	mg/
Sr	421.552	210.00	200.00	0.00000	10.000	10.000	-0.00020	mg/
		200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
		200.00	190.00	0.00000	10.000	10.000	-0.00020	mg/
Zn	481.053	100.60	0.00000	100.60	0.00000	0.00000	-0.10142	mg/
		101.00	0.00000	103.30	-2.3000	-2.3000	-0.22419	mg/
		102.70	0.00000	101.30	1.4000	1.4000	-0.02669	mg/
Ba	493.409	350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
		350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
		340.00	330.00	0.00000	10.000	10.000	0.00072	mg/
Na	588.995	75.000	103.00	0.00000	-28.000	-28.000	-0.01057	mg/
		76.000	103.00	0.00000	-27.000	-27.000	-0.00661	mg/
		75.000	105.00	0.00000	-30.000	-30.000	-0.01851	mg/
Li	670.784	15.700	0.00000	15.800	-0.10000	-0.10000	-0.00170	mg/
		16.100	0.00000	15.500	0.60000	0.60000	-0.00038	mg/
		15.300	0.00000	15.400	-0.10000	-0.10000	-0.00170	mg/
K	766.490	28.800	0.00000	26.400	2.4000	2.4000	0.04969	mg/
		26.700	0.00000	27.300	-0.60000	-0.60000	-0.03632	mg/
		27.400	0.00000	27.300	0.10000	0.10000	-0.01625	mg/
K	769.896	48.800	0.00000	46.600	2.2000	2.2000	0.05354	mg/
		50.800	0.00000	48.700	2.1000	2.1000	0.05086	mg/
		51.600	0.00000	46.900	4.7000	4.7000	0.12047	mg/

----- 12:41:55 7/ 7/99 ----- Method: JYSED5

Sample INSTR BLK 2- - 16

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.03722 mg/L	0.03820	100
Tl	190.864	-0.03338 mg/L	0.01828	55
Tl	190.883	0.03173 mg/L	0.04914	160
As	193.759	0.01286 mg/L	0.03456	270
Se	196.090	0.01305 mg/L	0.01668	130
Mo	202.030	0.00444 mg/L	0.00339	76
Se	203.985	-0.02812 mg/L	0.02094	74
Cr	205.552	0.00000 mg/L	0.00125	+o***
Sb	206.833	0.00406 mg/L	0.00474	120
Zn	213.856	0.00565 mg/L	0.00287	51
Sb	217.581	-0.01687 mg/L	0.00432	26
Pb	220.353	0.01487 mg/L	0.01590	110
Co	228.616	-0.00121 mg/L	0.00371	310
Cd	228.802	0.00375 mg/L	0.00108	29
Ni	231.604	-0.00050 mg/L	0.00380	760
Be	234.861	-0.00067 mg/L	0.00058	87
B	249.678	-0.00771 mg/L	0.00127	16
Mn	257.610	-0.00108 mg/L	0.00062	58
Fe	259.940	-0.00078 mg/L	0.00507	650
Fe	271.441	0.01938 mg/L	0.08881	460

Al	308.215	-0.08765	mg/L	0.14412	160
Ca	315.887	0.02109	mg/L	0.01828	87
Cu	324.754	-0.00052	mg/L	0.00205	400
Ag	328.068	-0.00049	mg/L	0.00256	520
Ti	334.941	-0.00082	mg/L	0.00125	150
Y	371.030	0.00049	mg/L	0.00085	170
Mg	383.826	0.00102	mg/L	0.00770	760
Ca	393.366	0.00458	mg/L	0.00079	17
Al	396.152	-0.00177	mg/L	0.01796	+o***
Sr	421.552	-0.00040	mg/L	0.00034	87
Zn	481.053	-0.11744	mg/L	0.09972	85
Ba	493.409	0.00036	mg/L	0.00031	87
Na	588.995	-0.01190	mg/L	0.00606	51
Li	670.784	-0.00126	mg/L	0.00076	61
K	766.490	-0.00096	mg/L	0.04500	+o***
K	769.896	0.07496	mg/L	0.03943	53

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010709nm #Steps = 23.79

Measurements for SED5 AQC 2- - 17

Sn	189.989	186.20	0.00000	7.7000	178.50	178.50	5.2885 mg/
		183.10	0.00000	7.3000	175.80	175.80	5.2091 mg/
		180.20	0.00000	7.9000	172.30	172.30	5.1063 mg/
Tl	190.864	163.72	11.820	0.00000	151.90	151.90	4.9257 mg/
		163.76	11.980	0.00000	151.78	151.78	4.9218 mg/
		167.68	13.220	0.00000	154.46	154.46	5.0090 mg/
Tl	190.883	89.000	13.260	0.00000	75.740	75.740	4.9757 mg/
		88.360	12.380	0.00000	75.980	75.980	4.9913 mg/
		86.840	11.860	0.00000	74.980	74.980	4.9261 mg/
As	193.759	236.76	22.420	17.440	215.41	215.41	5.1493 mg/
		232.74	19.880	17.300	213.41	213.41	5.1016 mg/
		231.28	20.980	15.920	211.38	211.38	5.0530 mg/
Se	196.090	79.600	0.00000	5.7600	73.840	73.840	5.3740 mg/
		78.600	0.00000	5.6200	72.980	72.980	5.3116 mg/
		76.760	0.00000	5.8800	70.880	70.880	5.1594 mg/
Mo	202.030	246.80	2.8000	0.00000	244.00	244.00	5.4177 mg/
		233.40	2.9000	0.00000	230.50	230.50	5.1180 mg/
		248.40	3.0000	0.00000	245.40	245.40	5.4488 mg/
Se	203.985	130.66	0.00000	16.040	114.62	114.62	7.8900 mg/
		128.66	0.00000	14.860	113.80	113.80	7.8333 mg/
		127.58	0.00000	14.060	113.52	113.52	7.8139 mg/
Cr	205.552	255.00	0.00000	2.6000	252.40	252.40	5.4535 mg/
		253.90	0.00000	2.4000	251.50	251.50	5.4340 mg/
		240.80	0.00000	2.7000	238.10	238.10	5.1444 mg/
Sb	206.833	334.28	0.00000	17.260	317.02	317.02	5.0717 mg/
		338.74	0.00000	16.180	322.56	322.56	5.1605 mg/
		328.16	0.00000	16.860	311.30	311.30	4.9801 mg/
Zn	213.856	281.50	0.00000	1.9000	279.60	279.60	5.2509 mg/
		270.70	0.00000	1.8000	268.90	268.90	5.0495 mg/
		281.20	0.00000	1.6000	279.60	279.60	5.2509 mg/
Sb	217.581	354.16	0.00000	20.200	333.96	333.96	5.0790 mg/
		343.66	0.00000	20.820	322.84	322.84	4.9094 mg/
		356.16	0.00000	20.860	335.30	335.30	5.0994 mg/
Pb	220.353	327.34	24.700	26.940	301.32	301.32	5.3082 mg/
		326.26	24.080	25.280	301.47	301.47	5.3109 mg/
		324.94	24.080	26.300	299.55	299.55	5.2771 mg/
Co	228.616	458.40	0.00000	5.9000	452.50	452.50	5.4874 mg/
		454.00	0.00000	5.9000	448.10	448.10	5.4341 mg/
		444.10	0.00000	6.1000	438.00	438.00	5.3115 mg/
Cd	228.802	279.90	0.00000	2.5000	277.40	277.40	5.2003 mg/
		277.90	0.00000	2.6000	275.30	275.30	5.1609 mg/
		282.20	0.00000	2.6000	279.60	279.60	5.2415 mg/

		357.50	0.00000	6.0000	351.50	351.50	5.3024	mg/
Be	234.861	5311.0	0.00000	10.000	5301.0	5301.0	5.3098	mg/
		5364.0	0.00000	9.0000	5355.0	5355.0	5.3639	mg/
		5452.0	0.00000	9.0000	5443.0	5443.0	5.4521	mg/
B	249.678	2469.1	0.00000	12.700	2456.4	2456.4	5.2976	mg/
		2391.9	0.00000	11.700	2380.2	2380.2	5.1328	mg/
		2454.0	0.00000	13.100	2440.9	2440.9	5.2641	mg/
Mn	257.610	5019.0	0.00000	17.000	5002.0	5002.0	5.4011	mg/
		5019.0	0.00000	16.000	5003.0	5003.0	5.4021	mg/
		4949.0	0.00000	15.000	4934.0	4934.0	5.3276	mg/
Fe	259.940	438.00	0.00000	4.4000	433.60	433.60	5.0378	mg/
		435.70	0.00000	4.7000	431.00	431.00	5.0076	mg/
		448.80	0.00000	4.6000	444.20	444.20	5.1610	mg/
Fe	271.441	12.200	2.4000	0.00000	9.8000	9.8000	5.6786	mg/
		12.200	2.2000	0.00000	10.000	10.000	5.7948	mg/
		11.900	2.2000	0.00000	9.7000	9.7000	5.6204	mg/
Mg	279.553	5757.0	0.00000	10.000	5747.0	5747.0	5.3126	mg/
		5886.0	0.00000	10.000	5876.0	5876.0	5.4319	mg/
		5865.0	0.00000	10.000	5855.0	5855.0	5.4125	mg/
V	292.402	798.20	9.9000	0.00000	788.30	788.30	5.0741	mg/
		825.00	9.4000	0.00000	815.60	815.60	5.2497	mg/
		822.70	10.000	0.00000	812.70	812.70	5.2310	mg/
Al	308.215	20.700	2.4000	0.00000	18.300	18.300	5.3564	mg/
		21.700	2.4000	0.00000	19.300	19.300	5.6486	mg/
		20.100	2.2000	0.00000	17.900	17.900	5.2396	mg/
Ca	315.887	397.40	0.00000	46.500	350.90	350.90	5.4657	mg/
		381.60	0.00000	46.600	335.00	335.00	5.2203	mg/
		361.80	0.00000	45.400	316.40	316.40	4.9333	mg/
Cu	324.754	6318.0	0.00000	117.00	6201.0	6201.0	4.7950	mg/
		6559.0	0.00000	119.00	6440.0	6440.0	4.9800	mg/
		6188.0	0.00000	115.00	6073.0	6073.0	4.6959	mg/
Ag	328.068	844.80	0.00000	190.50	654.30	654.30	0.50451	mg/
		828.60	0.00000	188.60	640.00	640.00	0.49340	mg/
		817.70	0.00000	181.80	635.90	635.90	0.49021	mg/
Ti	334.941	6206.0	0.00000	70.000	6136.0	6136.0	5.0190	mg/
		6130.0	0.00000	71.000	6059.0	6059.0	4.9559	mg/
		6335.0	0.00000	70.000	6265.0	6265.0	5.1245	mg/
Y	371.030	72370	0.00000	500.00	71870	71870	5.3153	mg/
		65790	0.00000	490.00	65300	65300	4.8294	mg/
		68600	0.00000	490.00	68110	68110	5.0372	mg/
Mg	383.826	1911.0	314.00	0.00000	1597.0	1597.0	4.9244	mg/
		1930.0	310.00	0.00000	1620.0	1620.0	4.9948	mg/
		1917.0	313.00	0.00000	1604.0	1604.0	4.9459	mg/
Ca	393.366	76510	0.00000	160.00	76350	76350	5.2137	mg/
		73190	0.00000	160.00	73030	73030	4.9857	mg/
		76570	0.00000	160.00	76410	76410	5.2178	mg/
Al	396.152	800.10	0.00000	72.100	728.00	728.00	4.8084	mg/
		838.70	0.00000	69.100	769.60	769.60	5.0840	mg/
		862.40	0.00000	69.800	792.60	792.60	5.2364	mg/
Sr	421.552	83260	610.00	0.00000	82650	82650	4.9094	mg/
		80630	610.00	0.00000	80020	80020	4.7531	mg/
		78450	620.00	0.00000	77830	77830	4.6230	mg/
Zn	481.053	193.30	0.00000	101.20	92.100	92.100	4.8148	mg/
		196.60	0.00000	98.800	97.800	97.800	5.1191	mg/
		195.40	0.00000	103.10	92.300	92.300	4.8255	mg/
Ba	493.409	91120	390.00	0.00000	90730	90730	4.9082	mg/
		88780	390.00	0.00000	88390	88390	4.7816	mg/
		91220	400.00	0.00000	90820	90820	4.9131	mg/
Na	588.995	1311.0	115.00	0.00000	1196.0	1196.0	4.8432	mg/
		1321.0	120.00	0.00000	1201.0	1201.0	4.8631	mg/
		1282.0	114.00	0.00000	1168.0	1168.0	4.7322	mg/
Li	670.784	2572.4	0.00000	24.200	2548.2	2548.2	4.8095	mg/
		2604.4	0.00000	24.700	2579.7	2579.7	4.8690	mg/
		2616.8	0.00000	23.900	2592.9	2592.9	4.8939	mg/

		191.90	0.00000	28.200	163.70	163.70	4.6742	mg/
K	769.896	222.70	0.00000	49.700	173.00	173.00	4.6259	mg/
		230.20	0.00000	46.600	183.60	183.60	4.9096	mg/
		215.00	0.00000	49.700	165.30	165.30	4.4198	mg/

----- 12:49:50 7/ 7/99 ----- Method: JYSED5

Sample SED5 AQC 2- - 17

EL	Wave	Concentration	SD	RSD
Sn	189.989	5.2013 mg/L	0.09135	1.8
Tl	190.864	4.9522 mg/L	0.04923	0.99
Tl	190.883	4.9644 mg/L	0.03404	0.69
As	193.759	5.1013 mg/L	0.04816	0.94
Se	196.090	5.2817 mg/L	0.11036	2.1
Mo	202.030	5.3281 mg/L	0.18265	3.4
Se	203.985	7.8457 mg/L	0.03953	0.50
Cr	205.552	5.3440 mg/L	0.17309	3.2
Sb	206.833	5.0708 mg/L	0.09024	1.8
Zn	213.856	5.1838 mg/L	0.11625	2.2
Sb	217.581	5.0293 mg/L	0.10427	2.1
Pb	220.353	5.2987 mg/L	0.01878	0.35
Co	228.616	5.4110 mg/L	0.09018	1.7
Cd	228.802	5.2009 mg/L	0.04031	0.78
Ni	231.604	5.3814 mg/L	0.08501	1.6
Be	234.861	5.3753 mg/L	0.07179	1.3
B	249.678	5.2315 mg/L	0.08709	1.7
Mn	257.610	5.3769 mg/L	0.04272	0.79
Fe	259.940	5.0688 mg/L	0.08131	1.6
Fe	271.441	5.6979 mg/L	0.08881	1.6
Mg	279.553	5.3857 mg/L	0.06404	1.2
V	292.402	5.1849 mg/L	0.09646	1.9
Al	308.215	5.4149 mg/L	0.21069	3.9
Ca	315.887	5.2064 mg/L	0.26651	5.1
Cu	324.754	4.8236 mg/L	0.14422	3.0
Ag	328.068	0.49604 mg/L	0.00750	1.5
Ti	334.941	5.0331 mg/L	0.08520	1.7
Y	371.030	5.0606 mg/L	0.24376	4.8
Mg	383.826	4.9550 mg/L	0.03606	0.73
Ca	393.366	5.1391 mg/L	0.13286	2.6
Al	396.152	5.0430 mg/L	0.21696	4.3
Sr	421.552	4.7619 mg/L	0.14338	3.0
Zn	481.053	4.9198 mg/L	0.17267	3.5
Ba	493.409	4.8676 mg/L	0.07453	1.5
Na	588.995	4.8128 mg/L	0.07053	1.5
Li	670.784	4.8575 mg/L	0.04336	0.89
K	766.490	4.6761 mg/L	0.00166	0.04
K	769.896	4.6518 mg/L	0.24597	5.3

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010643nm #Steps = 23.64

Measurements for HIGH AQC 2- - 18

Sn	189.989	11.300	0.00000	9.4000	1.9000	1.9000	0.09893	mg/
		11.500	0.00000	10.700	0.80000	0.80000	0.06661	mg/
		11.300	0.00000	9.0000	2.3000	2.3000	0.11069	mg/
Tl	190.864	25.920	15.200	0.00000	10.720	10.720	0.33493	mg/
		26.140	15.520	0.00000	10.620	10.620	0.33168	mg/
		25.820	14.720	0.00000	11.100	11.100	0.34729	mg/
Tl	190.883	17.540	14.460	0.00000	3.0800	3.0800	0.23820	mg/
		15.740	14.160	0.00000	1.5800	1.5800	0.14040	mg/

		51.860	57.260	34.780	-0.58286	-0.58286	-0.02231	mg/
		50.720	57.480	32.320	-1.3686	-1.3686	-0.04113	mg/
Se	196.090	8.2000	0.00000	9.0400	-0.84000	-0.84000	-0.03865	mg/
		9.1800	0.00000	9.0600	0.12000	0.12000	0.03092	mg/
		8.5800	0.00000	9.1600	-0.58000	-0.58000	-0.01981	mg/
Mo	202.030	4.6000	4.6000	0.00000	0.00000	0.00000	0.00148	mg/
		4.9000	4.4000	0.00000	0.50000	0.50000	0.01258	mg/
		5.0000	4.3000	0.00000	0.70000	0.70000	0.01702	mg/
Se	203.985	22.100	0.00000	22.880	-0.78000	-0.78000	-0.08989	mg/
		22.140	0.00000	22.440	-0.30000	-0.30000	-0.05670	mg/
		22.180	0.00000	22.240	-0.06000	-0.06000	-0.04011	mg/
Cr	205.552	3.1000	0.00000	2.9000	0.20000	0.20000	0.00288	mg/
		3.3000	0.00000	3.1000	0.20000	0.20000	0.00288	mg/
		3.3000	0.00000	3.3000	0.00000	0.00000	-0.00144	mg/
Sb	206.833	31.240	0.00000	32.680	-1.4400	-1.4400	-0.03248	mg/
		29.820	0.00000	31.780	-1.9600	-1.9600	-0.04082	mg/
		29.640	0.00000	32.380	-2.7400	-2.7400	-0.05332	mg/
Zn	213.856	4971.1	0.00000	4.2000	4966.9	4966.9	93.458	mg/
		5084.2	0.00000	3.9000	5080.3	5080.3	95.592	mg/
		5175.1	0.00000	3.8000	5171.3	5171.3	97.304	mg/
Sb	217.581	24.540	0.00000	25.160	-0.62000	-0.62000	-0.02175	mg/
		24.500	0.00000	25.640	-1.1400	-1.1400	-0.02968	mg/
		25.920	0.00000	25.360	0.56000	0.56000	-0.00376	mg/
Pb	220.353	29.560	27.200	30.920	0.17176	0.17176	0.00861	mg/
		28.540	26.000	29.800	0.30471	0.30471	0.01095	mg/
		29.580	26.940	29.820	0.94588	0.94588	0.02223	mg/
Co	228.616	5.0000	0.00000	4.7000	0.30000	0.30000	0.00202	mg/
		4.8000	0.00000	4.8000	0.00000	0.00000	-0.00162	mg/
		4.4000	0.00000	5.1000	-0.70000	-0.70000	-0.01011	mg/
Cd	228.802	2.1000	0.00000	2.2000	-0.10000	-0.10000	-0.00250	mg/
		2.3000	0.00000	2.1000	0.20000	0.20000	0.00312	mg/
		2.3000	0.00000	2.1000	0.20000	0.20000	0.00312	mg/
Ni	231.604	6.4000	0.00000	5.9000	0.50000	0.50000	0.00804	mg/
		6.3000	0.00000	6.4000	-0.10000	-0.10000	-0.00101	mg/
		6.5000	0.00000	6.1000	0.40000	0.40000	0.00654	mg/
Be	234.861	10.000	0.00000	8.0000	2.0000	2.0000	0.00200	mg/
		10.000	0.00000	8.0000	2.0000	2.0000	0.00200	mg/
		10.000	0.00000	9.0000	1.0000	1.0000	0.00100	mg/
B	249.678	40.800	0.00000	11.400	29.400	29.400	0.04902	mg/
		42.500	0.00000	12.400	30.100	30.100	0.05053	mg/
		39.300	0.00000	11.900	27.400	27.400	0.04469	mg/
Mn	257.610	14.000	0.00000	12.000	2.0000	2.0000	0.00072	mg/
		14.000	0.00000	12.000	2.0000	2.0000	0.00072	mg/
		15.000	0.00000	12.000	3.0000	3.0000	0.00180	mg/
Fe	259.940	8465.9	0.00000	6.9000	8459.0	8459.0	98.360	mg/
		8722.3	0.00000	6.6000	8715.7	8715.7	101.35	mg/
		8422.4	0.00000	6.6000	8415.8	8415.8	97.858	mg/
Fe	271.441	172.30	2.1000	0.00000	170.20	170.20	98.939	mg/
		167.80	2.2000	0.00000	165.60	165.60	96.264	mg/
		172.80	2.5000	0.00000	170.30	170.30	98.997	mg/
Mg	279.553	57635	0.00000	32.000	57603	57603	53.290	mg/
		58165	0.00000	33.000	58132	58132	53.780	mg/
		57093	0.00000	32.000	57061	57061	52.789	mg/
V	292.402	7.3000	9.4000	0.00000	-2.1000	-2.1000	-0.01029	mg/
		6.9000	9.1000	0.00000	-2.2000	-2.2000	-0.01094	mg/
		6.6000	9.2000	0.00000	-2.6000	-2.6000	-0.01351	mg/
Al	308.215	361.00	2.7000	0.00000	358.30	358.30	104.69	mg/
		356.90	2.8000	0.00000	354.10	354.10	103.47	mg/
		367.00	2.6000	0.00000	364.40	364.40	106.48	mg/
Ca	315.887	6964.4	0.00000	58.700	6905.7	6905.7	106.63	mg/
		6963.1	0.00000	58.500	6904.6	6904.6	106.62	mg/
		6769.0	0.00000	57.100	6711.9	6711.9	103.64	mg/
Cu	324.754	113.00	0.00000	124.00	-11.000	-11.000	-0.01445	mg/
		108.00	0.00000	127.00	-19.000	-19.000	-0.02065	mg/

		182.80	0.00000	168.10	14.700	14.700	0.00759	mg/
		168.40	0.00000	176.80	-8.4000	-8.4000	-0.01036	mg/
Ti	334.941	58.000	0.00000	58.000	0.00000	0.00000	-0.00355	mg/
		59.000	0.00000	58.000	1.0000	1.0000	-0.00273	mg/
		59.000	0.00000	58.000	1.0000	1.0000	-0.00273	mg/
Y	371.030	460.00	0.00000	430.00	30.000	30.000	0.00296	mg/
		470.00	0.00000	430.00	40.000	40.000	0.00370	mg/
		450.00	0.00000	450.00	0.00000	0.00000	0.00074	mg/
Mg	383.826	18563	352.00	0.00000	18211	18211	55.741	mg/
		18881	355.00	0.00000	18526	18526	56.705	mg/
		18603	358.00	0.00000	18245	18245	55.845	mg/
Ca	393.366	+o******	0.00000	920.00	+o******	+o******	82.326	mg/>
		+o******	0.00000	920.00	+o******	+o******	82.326	mg/>
		+o******	0.00000	920.00	+o******	+o******	82.326	mg/>
Al	396.152	14789	0.00000	132.00	14657	14657	97.104	mg/
		15259	0.00000	132.00	15127	15127	100.22	mg/
		14677	0.00000	131.00	14546	14546	96.369	mg/
Sr	421.552	230.00	200.00	0.00000	30.000	30.000	0.00099	mg/
		240.00	200.00	0.00000	40.000	40.000	0.00158	mg/
		230.00	200.00	0.00000	30.000	30.000	0.00099	mg/
Zn	481.053	1962.2	0.00000	106.70	1855.5	1855.5	98.944	mg/
		1946.6	0.00000	107.70	1838.9	1838.9	98.058	mg/
		1918.5	0.00000	106.00	1812.5	1812.5	96.649	mg/
Ba	493.409	350.00	340.00	0.00000	10.000	10.000	0.00072	mg/
		370.00	350.00	0.00000	20.000	20.000	0.00126	mg/
		360.00	340.00	0.00000	20.000	20.000	0.00126	mg/
Na	588.995	24881	230.00	0.00000	24651	24651	97.855	mg/
		25447	233.00	0.00000	25214	25214	100.09	mg/
		25154	230.00	0.00000	24924	24924	98.937	mg/
Li	670.784	16.400	0.00000	14.800	1.6000	1.6000	0.00151	mg/
		16.500	0.00000	15.200	1.3000	1.3000	0.00094	mg/
		17.000	0.00000	15.500	1.5000	1.5000	0.00132	mg/
K	766.490	3538.5	0.00000	38.400	3500.1	3500.1	100.33	mg/
		3448.0	0.00000	40.800	3407.2	3407.2	97.665	mg/
		3524.3	0.00000	37.200	3487.1	3487.1	99.956	mg/
K	769.896	3638.0	0.00000	59.300	3578.7	3578.7	95.797	mg/
		3901.9	0.00000	60.200	3841.7	3841.7	102.84	mg/
		3822.7	0.00000	60.000	3762.7	3762.7	100.72	mg/

----- 12:57:44 7/ 7/99 ----- Method: JYSED5

Sample HIGH AQC 2- - 18

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.09208 mg/L	0.02283	25
Tl	190.864	0.33797 mg/L	0.00823	2.4
Tl	190.883	0.15431 mg/L	0.07787	50
As	193.759	-0.07108 mg/L	0.06882	97
Se	196.090	-0.00918 mg/L	0.03599	390
Mo	202.030	0.01036 mg/L	0.00800	77
Se	203.985	-0.06223 mg/L	0.02535	41
Cr	205.552	0.00144 mg/L	0.00250	170
Sb	206.833	-0.04221 mg/L	0.01049	25
Zn	213.856	95.451 mg/L	1.9271	2.0
Sb	217.581	-0.01840 mg/L	0.01328	72
Pb	220.353	0.01393 mg/L	0.00728	52
Co	228.616	-0.00323 mg/L	0.00622	190
Cd	228.802	0.00125 mg/L	0.00325	260
Ni	231.604	0.00453 mg/L	0.00485	110
Be	234.861	0.00167 mg/L	0.00058	35
B	249.678	0.04808 mg/L	0.00303	6.3
Mn	257.610	0.00108 mg/L	0.00062	58

Mg	279.553	53.286	mg/L	0.49546	0.93
V	292.402	-0.01158	mg/L	0.00170	15
Al	308.215	104.88	mg/L	1.5132	1.4
Ca	315.887	105.63	mg/L	1.7220	1.6
Cu	324.754	-0.01781	mg/L	0.00313	18
Ag	328.068	-0.00267	mg/L	0.00924	350
Ti	334.941	-0.00300	mg/L	0.00047	16
Y	371.030	0.00246	mg/L	0.00154	62
Mg	383.826	56.097	mg/L	0.52881	0.94
Ca >	393.366	+o********	mg/L	0.00000	0.00
Al	396.152	97.897	mg/L	2.0437	2.1
Sr	421.552	0.00119	mg/L	0.00034	29
Zn	481.053	97.884	mg/L	1.1575	1.2
Ba	493.409	0.00108	mg/L	0.00031	29
Na	588.995	98.960	mg/L	1.1165	1.1
Li	670.784	0.00126	mg/L	0.00029	23
K	766.490	99.317	mg/L	1.4422	1.4
K	769.896	99.786	mg/L	3.6126	3.6

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010911nm #Steps = 24.24

Measurements for WASH- - 19

Sn	189.989	7.3000	0.00000	6.3000	1.0000	1.0000	0.07249	mg/
		6.5000	0.00000	6.5000	0.00000	0.00000	0.04310	mg/
		6.1000	0.00000	6.6000	-0.50000	-0.50000	0.02841	mg/
Tl	190.864	11.280	10.520	0.00000	0.76000	0.76000	0.01106	mg/
		10.180	9.7200	0.00000	0.46000	0.46000	0.00130	mg/
		11.320	9.3600	0.00000	1.9600	1.9600	0.05008	mg/
Tl	190.883	10.940	11.200	0.00000	-0.26000	-0.26000	0.02043	mg/
		10.300	9.7600	0.00000	0.54000	0.54000	0.07259	mg/
		10.560	9.9800	0.00000	0.58000	0.58000	0.07520	mg/
As	193.759	14.500	13.620	15.820	0.40857	0.40857	0.00143	mg/
		12.940	13.080	15.420	-0.64143	-0.64143	-0.02372	mg/
		14.080	12.540	13.900	1.2486	1.2486	0.02154	mg/
Se	196.090	4.6600	0.00000	4.9400	-0.28000	-0.28000	0.00193	mg/
		5.2200	0.00000	5.5000	-0.28000	-0.28000	0.00193	mg/
		5.6000	0.00000	5.4400	0.16000	0.16000	0.03382	mg/
Mo	202.030	2.6000	2.4000	0.00000	0.20000	0.20000	0.00592	mg/
		2.5000	2.5000	0.00000	0.00000	0.00000	0.00148	mg/
		2.5000	2.5000	0.00000	0.00000	0.00000	0.00148	mg/
Se	203.985	11.720	0.00000	12.140	-0.42000	-0.42000	-0.06500	mg/
		12.740	0.00000	11.960	0.78000	0.78000	0.01798	mg/
		11.840	0.00000	11.440	0.40000	0.40000	-0.00830	mg/
Cr	205.552	2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00360	mg/
		1.8000	0.00000	1.8000	0.00000	0.00000	-0.00144	mg/
		1.8000	0.00000	1.8000	0.00000	0.00000	-0.00144	mg/
Sb	206.833	14.640	0.00000	15.300	-0.66000	-0.66000	-0.01998	mg/
		15.340	0.00000	15.040	0.30000	0.30000	-0.00459	mg/
		15.640	0.00000	14.120	1.5200	1.5200	0.01496	mg/
Zn	213.856	2.0000	0.00000	1.6000	0.40000	0.40000	-0.00314	mg/
		1.9000	0.00000	1.7000	0.20000	0.20000	-0.00690	mg/
		2.0000	0.00000	1.5000	0.50000	0.50000	-0.00125	mg/
Sb	217.581	19.400	0.00000	19.120	0.28000	0.28000	-0.00803	mg/
		20.120	0.00000	19.120	1.0000	1.0000	0.00295	mg/
		18.780	0.00000	18.220	0.56000	0.56000	-0.00376	mg/
Pb	220.353	24.420	22.600	24.340	0.79647	0.79647	0.01960	mg/
		22.720	23.340	22.800	-0.30235	-0.30235	0.00026	mg/
		23.180	22.440	22.340	0.79882	0.79882	0.01964	mg/
Co	228.616	4.2000	0.00000	4.1000	0.10000	0.10000	-0.00040	mg/
		4.4000	0.00000	4.5000	-0.10000	-0.10000	-0.00283	mg/
		4.8000	0.00000	4.4000	0.40000	0.40000	0.00323	mg/
Cd	228.802	2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	mg/

Ni	231.604	5.9000	0.00000	5.9000	0.00000	0.00000	0.00050	mg/
		6.0000	0.00000	5.5000	0.50000	0.50000	0.00804	mg/
		5.8000	0.00000	5.8000	0.00000	0.00000	0.00050	mg/
Be	234.861	8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
B	249.678	21.000	0.00000	12.300	8.7000	8.7000	0.00425	mg/
		21.300	0.00000	11.800	9.5000	9.5000	0.00598	mg/
		19.900	0.00000	10.800	9.1000	9.1000	0.00512	mg/
Mn	257.610	11.000	0.00000	11.000	0.00000	0.00000	-0.00144	mg/
		11.000	0.00000	12.000	-1.0000	-1.0000	-0.00252	mg/
		10.000	0.00000	11.000	-1.0000	-1.0000	-0.00252	mg/
Fe	259.940	3.1000	0.00000	2.9000	0.20000	0.20000	-0.00194	mg/
		3.4000	0.00000	3.0000	0.40000	0.40000	0.00039	mg/
		3.1000	0.00000	3.2000	-0.10000	-0.10000	-0.00543	mg/
Fe	271.441	2.1000	2.1000	0.00000	0.00000	0.00000	-0.01938	mg/
		2.1000	2.0000	0.00000	0.10000	0.10000	0.03876	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	7.0000	0.00000	7.0000	0.00000	0.00000	-0.00463	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	-0.00463	mg/
		7.0000	0.00000	6.0000	1.0000	1.0000	-0.00370	mg/
V	292.402	6.7000	6.6000	0.00000	0.10000	0.10000	0.00386	mg/
		6.6000	6.0000	0.00000	0.60000	0.60000	0.00708	mg/
		6.4000	5.8000	0.00000	0.60000	0.60000	0.00708	mg/
Al	308.215	2.1000	2.4000	0.00000	-0.30000	-0.30000	-0.07791	mg/
		2.1000	2.3000	0.00000	-0.20000	-0.20000	-0.04869	mg/
		1.9000	2.2000	0.00000	-0.30000	-0.30000	-0.07791	mg/
Ca	315.887	40.500	0.00000	44.300	-3.8000	-3.8000	-0.00875	mg/
		38.500	0.00000	44.700	-6.2000	-6.2000	-0.04579	mg/
		38.800	0.00000	44.400	-5.6000	-5.6000	-0.03653	mg/
Cu	324.754	113.00	0.00000	104.00	9.0000	9.0000	0.00103	mg/
		114.00	0.00000	102.00	12.000	12.000	0.00335	mg/
		114.00	0.00000	105.00	9.0000	9.0000	0.00103	mg/
Ag	328.068	178.20	0.00000	174.70	3.5000	3.5000	-0.00111	mg/
		175.80	0.00000	174.50	1.3000	1.3000	-0.00282	mg/
		183.00	0.00000	171.30	11.700	11.700	0.00526	mg/
Ti	334.941	58.000	0.00000	53.000	5.0000	5.0000	0.00055	mg/
		58.000	0.00000	54.000	4.0000	4.0000	-0.00027	mg/
		59.000	0.00000	56.000	3.0000	3.0000	-0.00109	mg/
Y	371.030	420.00	0.00000	430.00	-10.000	-10.000	0.00000	mg/
		420.00	0.00000	440.00	-20.000	-20.000	-0.00074	mg/
		430.00	0.00000	420.00	10.000	10.000	0.00148	mg/
Mg	383.826	312.00	320.00	0.00000	-8.0000	-8.0000	0.01529	mg/
		301.00	311.00	0.00000	-10.000	-10.000	0.00918	mg/
		313.00	314.00	0.00000	-1.0000	-1.0000	0.03670	mg/
Ca	393.366	130.00	0.00000	120.00	10.000	10.000	-0.02953	mg/
		130.00	0.00000	120.00	10.000	10.000	-0.02953	mg/
		130.00	0.00000	120.00	10.000	10.000	-0.02953	mg/
Al	396.152	67.300	0.00000	69.900	-2.6000	-2.6000	-0.03269	mg/
		68.700	0.00000	69.500	-0.80000	-0.80000	-0.02076	mg/
		69.900	0.00000	70.100	-0.20000	-0.20000	-0.01679	mg/
Sr	421.552	200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
		200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
		200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
Zn	481.053	107.70	0.00000	107.30	0.40000	0.40000	-0.08007	mg/
		106.60	0.00000	106.80	-0.20000	-0.20000	-0.11210	mg/
		106.20	0.00000	102.60	3.6000	3.6000	0.09075	mg/
Ba	493.409	350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
		350.00	340.00	0.00000	10.000	10.000	0.00072	mg/
		350.00	350.00	0.00000	0.00000	0.00000	0.00018	mg/
Na	588.995	77.000	118.00	0.00000	-41.000	-41.000	-0.06213	mg/
		76.000	114.00	0.00000	-38.000	-38.000	-0.05023	mg/
		77.000	112.00	0.00000	-35.000	-35.000	-0.03833	mg/
Li	670.784	16.400	0.00000	15.500	0.90000	0.90000	0.00019	mg/

K	766.490	28.600	0.00000	26.900	1.7000	1.7000	0.02963	mg/
		27.900	0.00000	28.600	-0.70000	-0.70000	-0.03918	mg/
		29.800	0.00000	26.600	3.2000	3.2000	0.07263	mg/
K	769.896	49.300	0.00000	51.800	-2.5000	-2.5000	-0.07228	mg/
		47.600	0.00000	49.500	-1.9000	-1.9000	-0.05622	mg/
		52.800	0.00000	49.000	3.8000	3.8000	0.09637	mg/

----- 13:05:49 7/ 7/99 ----- Method: JYSED5

Sample WASH- - 19

EL	Wave	Concentration		SD	RSD
Sn	189.989	0.04800	mg/L	0.02244	47
Tl	190.864	0.02081	mg/L	0.02581	120
Tl	190.883	0.05607	mg/L	0.03090	55
As	193.759	-0.00025	mg/L	0.02267	+o***
Se	196.090	0.01256	mg/L	0.01841	150
Mo	202.030	0.00296	mg/L	0.00256	87
Se	203.985	-0.01844	mg/L	0.04241	230
Cr	205.552	-0.00216	mg/L	0.00125	58
Sb	206.833	-0.00321	mg/L	0.01751	550
Zn	213.856	-0.00376	mg/L	0.00287	76
Sb	217.581	-0.00295	mg/L	0.00553	190
Pb	220.353	0.01317	mg/L	0.01118	85
Co	228.616	0.00000	mg/L	0.00305	+o***
Cd	228.802	-0.00062	mg/L	0.00187	300
Ni	231.604	0.00302	mg/L	0.00435	140
Be	234.861	0.00000	mg/L	0.00000	0.00
B	249.678	0.00512	mg/L	0.00087	17
Mn	257.610	-0.00216	mg/L	0.00062	29
Fe	259.940	-0.00233	mg/L	0.00293	130
Fe	271.441	0.00000	mg/L	0.03357	+o***
Mg	279.553	-0.00432	mg/L	0.00053	12
V	292.402	0.00600	mg/L	0.00186	31
Al	308.215	-0.06817	mg/L	0.01687	25
Ca	315.887	-0.03035	mg/L	0.01928	64
Cu	324.754	0.00181	mg/L	0.00134	74
Ag	328.068	0.00044	mg/L	0.00426	970
Ti	334.941	-0.00027	mg/L	0.00082	300
Y	371.030	0.00025	mg/L	0.00113	460
Mg	383.826	0.02039	mg/L	0.01445	71
Ca	393.366	-0.02953	mg/L	0.00000	0.00
Al	396.152	-0.02341	mg/L	0.00828	35
Sr	421.552	-0.00079	mg/L	0.00000	0.00
Zn	481.053	-0.03381	mg/L	0.10905	320
Ba	493.409	0.00036	mg/L	0.00031	87
Na	588.995	-0.05023	mg/L	0.01190	24
Li	670.784	-0.00120	mg/L	0.00133	110
K	766.490	0.02102	mg/L	0.05640	270
K	769.896	-0.01071	mg/L	0.09308	870

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.010993nm #Steps = 24.42

Measurements for DIGEST BLK2-RUN 1111- 20

Sn	189.989	7.8000	0.00000	6.2000	1.6000	1.6000	0.09012	mg/
		6.1000	0.00000	7.6000	-1.5000	-1.5000	-0.00098	mg/
		7.8000	0.00000	5.6000	2.2000	2.2000	0.10775	mg/
Tl	190.864	11.220	10.440	0.00000	0.78000	0.78000	0.01171	mg/
		10.420	9.7800	0.00000	0.64000	0.64000	0.00715	mg/
		10.820	9.6000	0.00000	1.2200	1.2200	0.02601	mg/

		9.5400	9.3200	0.00000	0.22000	0.22000	0.05173	mg/
As	193.759	14.900	13.400	14.780	1.2043	1.2043	0.02048	mg/
		14.320	13.100	15.020	0.80857	0.80857	0.01100	mg/
		13.900	14.100	15.360	-0.47000	-0.47000	-0.01961	mg/
Se	196.090	5.4800	0.00000	5.4200	0.06000	0.06000	0.02658	mg/
		4.7800	0.00000	5.3200	-0.54000	-0.54000	-0.01691	mg/
		5.0400	0.00000	5.2800	-0.24000	-0.24000	0.00483	mg/
Mo	202.030	2.1000	2.6000	0.00000	-0.50000	-0.50000	-0.00962	mg/
		2.5000	2.5000	0.00000	0.00000	0.00000	0.00148	mg/
		2.5000	2.4000	0.00000	0.10000	0.10000	0.00370	mg/
Se	203.985	11.480	0.00000	11.260	0.22000	0.22000	-0.02074	mg/
		12.100	0.00000	12.520	-0.42000	-0.42000	-0.06500	mg/
		12.100	0.00000	11.280	0.82000	0.82000	0.02074	mg/
Cr	205.552	2.3000	0.00000	1.9000	0.40000	0.40000	0.00720	mg/
		2.2000	0.00000	1.8000	0.40000	0.40000	0.00720	mg/
		2.2000	0.00000	2.0000	0.20000	0.20000	0.00288	mg/
Sb	206.833	15.600	0.00000	15.160	0.44000	0.44000	-0.00235	mg/
		15.320	0.00000	14.940	0.38000	0.38000	-0.00331	mg/
		15.540	0.00000	13.680	1.8600	1.8600	0.02041	mg/
Zn	213.856	3.0000	0.00000	1.6000	1.4000	1.4000	0.01568	mg/
		2.8000	0.00000	1.5000	1.3000	1.3000	0.01380	mg/
		3.0000	0.00000	1.5000	1.5000	1.5000	0.01756	mg/
Sb	217.581	19.780	0.00000	19.340	0.44000	0.44000	-0.00559	mg/
		18.440	0.00000	19.300	-0.86000	-0.86000	-0.02541	mg/
		19.040	0.00000	18.560	0.48000	0.48000	-0.00498	mg/
Pb	220.353	23.440	21.540	23.000	1.0412	1.0412	0.02391	mg/
		22.820	22.740	24.140	-0.74353	-0.74353	-0.00750	mg/
		23.020	22.840	23.080	0.03882	0.03882	0.00627	mg/
Co	228.616	4.0000	0.00000	4.2000	-0.20000	-0.20000	-0.00404	mg/
		4.2000	0.00000	3.9000	0.30000	0.30000	0.00202	mg/
		4.3000	0.00000	4.4000	-0.10000	-0.10000	-0.00283	mg/
Cd	228.802	2.1000	0.00000	2.1000	0.00000	0.00000	-0.00062	mg/
		2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00250	mg/
		2.2000	0.00000	2.0000	0.20000	0.20000	0.00312	mg/
Ni	231.604	6.3000	0.00000	5.9000	0.40000	0.40000	0.00654	mg/
		6.7000	0.00000	6.1000	0.60000	0.60000	0.00955	mg/
		6.2000	0.00000	5.7000	0.50000	0.50000	0.00804	mg/
Be	234.861	7.0000	0.00000	8.0000	-1.0000	-1.0000	-0.00100	mg/
		8.0000	0.00000	8.0000	0.00000	0.00000	0.00000	mg/
		8.0000	0.00000	7.0000	1.0000	1.0000	0.00100	mg/
B	249.678	35.400	0.00000	9.9000	25.500	25.500	0.04058	mg/
		36.000	0.00000	9.5000	26.500	26.500	0.04275	mg/
		36.700	0.00000	10.800	25.900	25.900	0.04145	mg/
Mn	257.610	11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
		11.000	0.00000	11.000	0.00000	0.00000	-0.00144	mg/
Fe	259.940	10.100	0.00000	3.0000	7.1000	7.1000	0.07830	mg/
		10.000	0.00000	3.0000	7.0000	7.0000	0.07713	mg/
		9.3000	0.00000	3.1000	6.2000	6.2000	0.06783	mg/
Fe	271.441	2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
		2.3000	1.9000	0.00000	0.40000	0.40000	0.21319	mg/
		2.3000	2.0000	0.00000	0.30000	0.30000	0.15505	mg/
Mg	279.553	78.000	0.00000	6.0000	72.000	72.000	0.06199	mg/
		77.000	0.00000	6.0000	71.000	71.000	0.06106	mg/
		79.000	0.00000	6.0000	73.000	73.000	0.06291	mg/
V	292.402	6.5000	6.4000	0.00000	0.10000	0.10000	0.00386	mg/
		5.9000	6.1000	0.00000	-0.20000	-0.20000	0.00193	mg/
		6.1000	6.0000	0.00000	0.10000	0.10000	0.00386	mg/
Al	308.215	2.1000	2.7000	0.00000	-0.60000	-0.60000	-0.16556	mg/
		2.2000	2.4000	0.00000	-0.20000	-0.20000	-0.04869	mg/
		2.5000	2.2000	0.00000	0.30000	0.30000	0.09739	mg/
Ca	315.887	49.300	0.00000	42.500	6.8000	6.8000	0.15486	mg/
		50.400	0.00000	43.700	6.7000	6.7000	0.15331	mg/
		51.400	0.00000	42.200	9.2000	9.2000	0.19190	mg/

		109.00	0.00000	96.000	13.000	13.000	0.00413	mg/
Ag	328.068	170.00	0.00000	166.90	3.1000	3.1000	-0.00142	mg/
		173.10	0.00000	162.80	10.300	10.300	0.00417	mg/
		168.30	0.00000	172.80	-4.5000	-4.5000	-0.00733	mg/
Ti	334.941	57.000	0.00000	53.000	4.0000	4.0000	-0.00027	mg/
		56.000	0.00000	52.000	4.0000	4.0000	-0.00027	mg/
		55.000	0.00000	52.000	3.0000	3.0000	-0.00109	mg/
Y	371.030	430.00	0.00000	420.00	10.000	10.000	0.00148	mg/
		420.00	0.00000	430.00	-10.000	-10.000	0.00000	mg/
		420.00	0.00000	430.00	-10.000	-10.000	0.00000	mg/
Mg	383.826	312.00	318.00	0.00000	-6.0000	-6.0000	0.02141	mg/
		312.00	308.00	0.00000	4.0000	4.0000	0.05200	mg/
		304.00	305.00	0.00000	-1.0000	-1.0000	0.03670	mg/
Ca	393.366	2970.0	0.00000	120.00	2850.0	2850.0	0.16553	mg/
		3050.0	0.00000	120.00	2930.0	2930.0	0.17102	mg/
		2920.0	0.00000	120.00	2800.0	2800.0	0.16209	mg/
Al	396.152	72.300	0.00000	68.400	3.9000	3.9000	0.01038	mg/
		73.100	0.00000	66.400	6.7000	6.7000	0.02893	mg/
		74.200	0.00000	67.700	6.5000	6.5000	0.02761	mg/
Sr	421.552	210.00	180.00	0.00000	30.000	30.000	0.00099	mg/
		220.00	190.00	0.00000	30.000	30.000	0.00099	mg/
		210.00	190.00	0.00000	20.000	20.000	0.00040	mg/
Zn	481.053	102.90	0.00000	101.30	1.6000	1.6000	-0.01601	mg/
		101.40	0.00000	101.50	-0.10000	-0.10000	-0.10676	mg/
		105.20	0.00000	103.70	1.5000	1.5000	-0.02135	mg/
Ba	493.409	360.00	340.00	0.00000	20.000	20.000	0.00126	mg/
		370.00	340.00	0.00000	30.000	30.000	0.00180	mg/
		360.00	340.00	0.00000	20.000	20.000	0.00126	mg/
Na	588.995	191.00	104.00	0.00000	87.000	87.000	0.44546	mg/
		188.00	109.00	0.00000	79.000	79.000	0.41374	mg/
		186.00	111.00	0.00000	75.000	75.000	0.39787	mg/
Li	670.784	16.200	0.00000	15.300	0.90000	0.90000	0.00019	mg/
		16.000	0.00000	16.000	0.00000	0.00000	-0.00151	mg/
		16.100	0.00000	15.100	1.0000	1.0000	0.00038	mg/
K	766.490	33.100	0.00000	28.100	5.0000	5.0000	0.12424	mg/
		34.900	0.00000	26.600	8.3000	8.3000	0.21885	mg/
		36.700	0.00000	26.700	10.000	10.000	0.26759	mg/
K	769.896	56.400	0.00000	48.800	7.6000	7.6000	0.19810	mg/
		58.400	0.00000	46.700	11.700	11.700	0.30786	mg/
		56.800	0.00000	48.400	8.4000	8.4000	0.21952	mg/

----- 13:13:44 7/ 7/99 ----- Method: JYSED5

Sample DIGEST BLK2-RUN 1111- 20

EL	Wave	Concentration		SD	RSD
Sn	189.989	0.06563	mg/L	0.05835	89
Tl	190.864	0.01496	mg/L	0.00984	66
Tl	190.883	0.07259	mg/L	0.04788	66
As	193.759	0.00396	mg/L	0.02095	530
Se	196.090	0.00483	mg/L	0.02174	450
Mo	202.030	-0.00148	mg/L	0.00714	480
Se	203.985	-0.02167	mg/L	0.04288	200
Cr	205.552	0.00576	mg/L	0.00250	43
Sb	206.833	0.00492	mg/L	0.01343	270
Zn	213.856	0.01568	mg/L	0.00188	12
Sb	217.581	-0.01199	mg/L	0.01162	97
Pb	220.353	0.00756	mg/L	0.01574	210
Co	228.616	-0.00162	mg/L	0.00321	200
Cd	228.802	0.00000	mg/L	0.00286	+o***
Ni	231.604	0.00804	mg/L	0.00151	19
Be	234.861	0.00000	mg/L	0.00100	+o***

Fe	259.940	0.07442	mg/L	0.00574	7.7
Fe	271.441	0.11628	mg/L	0.12103	100
Mg	279.553	0.06199	mg/L	0.00093	1.5
V	292.402	0.00322	mg/L	0.00111	35
Al	308.215	-0.03896	mg/L	0.13175	340
Ca	315.887	0.16669	mg/L	0.02185	13
Cu	324.754	0.00181	mg/L	0.00232	130
Ag	328.068	-0.00153	mg/L	0.00575	380
Ti	334.941	-0.00055	mg/L	0.00047	87
Y	371.030	0.00049	mg/L	0.00085	170
Mg	383.826	0.03670	mg/L	0.01529	42
Ca	393.366	0.16621	mg/L	0.00450	2.7
Al	396.152	0.02231	mg/L	0.01035	46
Sr	421.552	0.00079	mg/L	0.00034	43
Zn	481.053	-0.04804	mg/L	0.05092	110
Ba	493.409	0.00144	mg/L	0.00031	22
Na	588.995	0.41902	mg/L	0.02423	5.8
Li	670.784	-0.00031	mg/L	0.00104	330
K	766.490	0.20356	mg/L	0.07289	36
K	769.896	0.24182	mg/L	0.05818	24

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011087nm #Steps = 24.63

Measurements for 99IE19S06-990086- 21

Sn	189.989	11.700	0.00000	8.3000	3.4000	3.4000	0.14301	27.839	mg/
		12.800	0.00000	9.1000	3.7000	3.7000	0.15183	29.556	mg/
		11.700	0.00000	9.8000	1.9000	1.9000	0.09893	19.259	mg/
Tl	190.864	31.240	16.560	0.00000	14.680	14.680	0.46370	90.267	mg/
		30.240	15.260	0.00000	14.980	14.980	0.47345	92.166	mg/
		30.760	15.480	0.00000	15.280	15.280	0.48321	94.065	mg/
Tl	190.883	15.160	15.580	0.00000	-0.42000	-0.42000	0.01000	1.9461	mg/
		15.660	13.680	0.00000	1.9800	1.9800	0.16648	32.408	mg/
		15.640	13.600	0.00000	2.0400	2.0400	0.17039	33.169	mg/
As	193.759	47.080	51.940	29.080	0.03857	0.03857	-0.00743	-1.4472	mg/
		45.380	51.780	29.680	-1.6643	-1.6643	-0.04821	-9.3843	mg/
		43.760	51.680	30.260	-3.3300	-3.3300	-0.08809	-17.148	mg/
Se	196.090	8.1200	0.00000	8.3200	-0.20000	-0.20000	0.00773	1.5050	mg/
		7.6400	0.00000	8.7800	-1.1400	-1.1400	-0.06040	-11.757	mg/
		8.4600	0.00000	8.3600	0.10000	0.10000	0.02947	5.7376	mg/
Mo	202.030	4.8000	4.1000	0.00000	0.70000	0.70000	0.01702	3.3128	mg/
		4.6000	4.4000	0.00000	0.20000	0.20000	0.00592	1.1523	mg/
		4.2000	4.1000	0.00000	0.10000	0.10000	0.00370	0.72019	mg/
Se	203.985	23.780	0.00000	22.280	1.5000	1.5000	0.06777	13.192	mg/
		22.660	0.00000	22.000	0.66000	0.66000	0.00968	1.8846	mg/
		23.280	0.00000	22.080	1.2000	1.2000	0.04702	9.1536	mg/
Cr	205.552	15.100	0.00000	3.1000	12.000	12.000	0.25791	50.206	mg/
		15.500	0.00000	2.8000	12.700	12.700	0.27304	53.151	mg/
		15.600	0.00000	2.6000	13.000	13.000	0.27952	54.413	mg/
Sb	206.833	27.020	0.00000	26.240	0.78000	0.78000	0.00310	0.60322	mg/
		26.260	0.00000	25.380	0.88000	0.88000	0.00470	0.91522	mg/
		25.840	0.00000	26.260	-0.42000	-0.42000	-0.01613	-3.1409	mg/
Zn	213.856	231.50	0.00000	1.9000	229.60	229.60	4.3100	839.01	mg/
		226.70	0.00000	1.7000	225.00	225.00	4.2234	822.16	mg/
		224.40	0.00000	1.7000	222.70	222.70	4.1801	813.73	mg/
Sb	217.581	23.740	0.00000	25.220	-1.4800	-1.4800	-0.03486	-6.7862	mg/
		25.320	0.00000	24.860	0.46000	0.46000	-0.00528	-1.0288	mg/
		23.800	0.00000	23.860	-0.06000	-0.06000	-0.01321	-2.5720	mg/
Pb	220.353	49.520	25.680	29.060	21.852	21.852	0.39013	75.944	mg/
		51.320	25.840	28.380	23.986	23.986	0.42768	83.255	mg/
		49.480	26.200	30.060	21.009	21.009	0.37530	73.059	mg/
Co	228.616	8.9000	0.00000	4.8000	4.1000	4.1000	0.04812	9.3669	mg/
		9.1000	0.00000	4.9000	4.2000	4.2000	0.04933	9.6030	mg/

		3.5000	0.00000	2.2000	1.3000	1.3000	0.02375	4.6230	mg/
		3.4000	0.00000	1.9000	1.5000	1.5000	0.02750	5.3530	mg/
Ni	231.604	29.700	0.00000	6.2000	23.500	23.500	0.35497	69.101	mg/
		31.600	0.00000	6.0000	25.600	25.600	0.38665	75.267	mg/
		31.000	0.00000	6.2000	24.800	24.800	0.37458	72.918	mg/
Be	234.861	16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3649	mg/
		16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3649	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1699	mg/
B	249.678	106.30	0.00000	11.600	94.700	94.700	0.19024	37.032	mg/
		102.90	0.00000	11.400	91.500	91.500	0.18331	35.685	mg/
		103.70	0.00000	11.100	92.600	92.600	0.18569	36.148	mg/
Mn	257.610	3910.0	0.00000	15.000	3895.0	3895.0	4.2054	818.65	mg/
		3988.0	0.00000	15.000	3973.0	3973.0	4.2897	835.05	mg/
		3927.0	0.00000	14.000	3913.0	3913.0	4.2249	822.44	mg/
Fe	259.940	11111	0.00000	14.000	11097	11097	129.04	25119	mg/
		10881	0.00000	13.000	10868	10868	126.37	24600	mg/
		11133	0.00000	13.000	11120	11120	129.30	25171	mg/
Fe	271.441	231.70	2.3000	0.00000	229.40	229.40	133.36	25961	mg/
		229.90	2.4000	0.00000	227.50	227.50	132.25	25745	mg/
		229.90	2.4000	0.00000	227.50	227.50	132.25	25745	mg/
Mg	279.553	30589	0.00000	20.000	30569	30569	28.278	5504.8	mg/
		31700	0.00000	21.000	31679	31679	29.305	5704.7	mg/
		32732	0.00000	21.000	32711	32711	30.260	5890.6	mg/
V	292.402	56.700	10.000	0.00000	46.700	46.700	0.30362	59.105	mg/
		49.500	12.100	0.00000	37.400	37.400	0.24380	47.459	mg/
		52.000	10.500	0.00000	41.500	41.500	0.27017	52.593	mg/
Al	308.215	298.70	2.8000	0.00000	295.90	295.90	86.463	16831	mg/
		299.20	2.5000	0.00000	296.70	296.70	86.697	16877	mg/
		291.70	2.7000	0.00000	289.00	289.00	84.447	16439	mg/
Ca	315.887	4738.7	0.00000	53.900	4684.8	4684.8	72.356	14085	mg/
		5000.9	0.00000	54.300	4946.6	4946.6	76.396	14872	mg/
		5099.6	0.00000	53.200	5046.4	5046.4	77.937	15172	mg/
Cu	324.754	833.00	0.00000	133.00	700.00	700.00	0.53601	104.34	mg/
		794.00	0.00000	137.00	657.00	657.00	0.50272	97.863	mg/
		812.00	0.00000	134.00	678.00	678.00	0.51898	101.03	mg/
Ag	328.068	177.90	0.00000	172.10	5.8000	5.8000	0.00067	0.13107	mg/
		172.50	0.00000	171.10	1.4000	1.4000	-0.00275	-0.53438	mg/
		178.20	0.00000	176.40	1.8000	1.8000	-0.00243	-0.47389	mg/
Ti	334.941	1294.0	0.00000	60.000	1234.0	1234.0	1.0065	195.94	mg/
		1279.0	0.00000	62.000	1217.0	1217.0	0.99261	193.23	mg/
		1287.0	0.00000	62.000	1225.0	1225.0	0.99915	194.50	mg/
Y	371.030	1350.0	0.00000	430.00	920.00	920.00	0.06877	13.387	mg/
		1380.0	0.00000	440.00	940.00	940.00	0.07025	13.675	mg/
		1370.0	0.00000	430.00	940.00	940.00	0.07025	13.675	mg/
Mg	383.826	9946.0	341.00	0.00000	9605.0	9605.0	29.418	5726.7	mg/
		10080	339.00	0.00000	9741.0	9741.0	29.834	5807.7	mg/
		9921.0	343.00	0.00000	9578.0	9578.0	29.336	5710.7	mg/
Ca	393.366	977520	0.00000	710.00	976810	976810	67.060	13054	mg/
		993870	0.00000	730.00	993140	993140	68.182	13273	mg/
		998310	0.00000	720.00	997590	997590	68.487	13332	mg/
Al	396.152	12491	0.00000	124.00	12367	12367	81.930	15949	mg/
		12495	0.00000	122.00	12373	12373	81.970	15957	mg/
		12579	0.00000	120.00	12459	12459	82.540	16068	mg/
Sr	421.552	4080.0	210.00	0.00000	3870.0	3870.0	0.22912	44.602	mg/
		3820.0	210.00	0.00000	3610.0	3610.0	0.21368	41.595	mg/
		4040.0	220.00	0.00000	3820.0	3820.0	0.22615	44.024	mg/
Zn	481.053	175.40	0.00000	106.40	69.000	69.000	3.5818	697.25	mg/
		176.50	0.00000	105.90	70.600	70.600	3.6672	713.88	mg/
		176.70	0.00000	108.20	68.500	68.500	3.5551	692.05	mg/
Ba	493.409	20210	350.00	0.00000	19860	19860	1.0745	209.17	mg/
		19180	360.00	0.00000	18820	18820	1.0182	198.22	mg/
		19800	340.00	0.00000	19460	19460	1.0529	204.96	mg/
Na	588.995	442.00	110.00	0.00000	332.00	332.00	1.4170	275.84	mg/
		441.00	104.00	0.00000	337.00	337.00	1.4368	279.70	mg/

		57.800	0.00000	14.700	43.100	43.100	0.07986	15.547	mg/
		56.100	0.00000	15.100	41.000	41.000	0.07590	14.775	mg/
K	766.490	521.60	0.00000	29.000	492.60	492.60	14.104	2745.5	mg/
		526.90	0.00000	27.300	499.60	499.60	14.304	2784.6	mg/
		533.70	0.00000	28.100	505.60	505.60	14.476	2818.1	mg/
K	769.896	603.30	0.00000	49.100	554.20	554.20	14.831	2887.0	mg/
		597.50	0.00000	53.400	544.10	544.10	14.560	2834.4	mg/
		586.10	0.00000	48.800	537.30	537.30	14.378	2799.0	mg/

----- 13:21:41 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S06-990086- 21

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.13126	25.551 mg/L	5.5166	22
Tl	190.864	0.47345	92.166 mg/L	1.8990	2.1
Tl	190.883	0.11562	22.508 mg/L	17.811	79
As	193.759	-0.04791	-9.3266 mg/L	7.8507	84
Se	196.090	-0.00773	-1.5050 mg/L	9.1277	610
Mo	202.030	0.00888	1.7284 mg/L	1.3890	80
Se	203.985	0.04149	8.0767 mg/L	5.7301	71
Cr	205.552	0.27015	52.590 mg/L	2.1590	4.1
Sb	206.833	-0.00278	-0.54081 mg/L	2.2571	420
Zn	213.856	4.2379	824.97 mg/L	12.870	1.6
Sb	217.581	-0.01779	-3.4623 mg/L	2.9801	86
Pb	220.353	0.39770	77.419 mg/L	5.2558	6.8
Co	228.616	0.04893	9.5243 mg/L	0.13634	1.4
Cd	228.802	0.02500	4.8663 mg/L	0.42144	8.7
Ni	231.604	0.37206	72.428 mg/L	3.1121	4.3
Be	234.861	0.00668	1.2999 mg/L	0.11258	8.7
B	249.678	0.18641	36.289 mg/L	0.68445	1.9
Mn	257.610	4.2400	825.38 mg/L	8.5870	1.0
Fe	259.940	128.24	24963 mg/L	315.39	1.3
Fe	271.441	132.62	25817 mg/L	124.16	0.48
Mg	279.553	29.281	5700.0 mg/L	192.94	3.4
V	292.402	0.27253	53.052 mg/L	5.8364	11
Al	308.215	85.869	16716 mg/L	240.79	1.4
Ca	315.887	75.563	14710 mg/L	561.09	3.8
Cu	324.754	0.51924	101.08 mg/L	3.2406	3.2
Ag	328.068	-0.00150	-0.29240 mg/L	0.36798	130
Ti	334.941	0.99943	194.55 mg/L	1.3552	0.70
Y	371.030	0.06976	13.579 mg/L	0.16622	1.2
Mg	383.826	29.529	5748.4 mg/L	52.018	0.90
Ca	393.366	67.910	13220 mg/L	146.29	1.1
Al	396.152	82.147	15991 mg/L	66.393	0.42
Sr	421.552	0.22298	43.407 mg/L	1.5955	3.7
Zn	481.053	3.6013	701.06 mg/L	11.399	1.6
Ba	493.409	1.0485	204.12 mg/L	5.5242	2.7
Na	588.995	1.4117	274.82 mg/L	5.4767	2.0
Li	670.784	0.07760	15.105 mg/L	0.39754	2.6
K	766.490	14.295	2782.7 mg/L	36.313	1.3
K	769.896	14.590	2840.1 mg/L	44.314	1.6

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011439nm #Steps = 25.41

Measurements for 99IE19S07-990086- 22

Sn	189.989	15.800	0.00000	9.1000	6.7000	6.7000	0.23998	46.338	mg/
		14.400	0.00000	10.600	3.8000	3.8000	0.15477	29.883	mg/
		13.100	0.00000	10.500	2.6000	2.6000	0.11950	23.074	mg/
Tl	190.864	31.600	15.900	0.00000	15.700	15.700	0.49687	95.939	mg/

Tl	190.883	15.840	14.700	0.00000	1.1400	1.1400	0.11171	21.570	mg/
		16.200	15.140	0.00000	1.0600	1.0600	0.10649	20.563	mg/
		15.400	15.080	0.00000	0.32000	0.32000	0.05825	11.247	mg/
As	193.759	45.000	50.220	29.200	-0.71572	-0.71572	-0.02549	-4.9227	mg/
		46.720	53.500	29.440	-1.6243	-1.6243	-0.04725	-9.1233	mg/
		45.940	52.580	29.700	-1.7371	-1.7371	-0.04995	-9.6450	mg/
Se	196.090	8.5400	0.00000	8.0000	0.54000	0.54000	0.06136	11.849	mg/
		8.3400	0.00000	8.3800	-0.04000	-0.04000	0.01933	3.7319	mg/
		8.3400	0.00000	8.8400	-0.50000	-0.50000	-0.01401	-2.7056	mg/
Mo	202.030	4.8000	3.5000	0.00000	1.3000	1.3000	0.03034	5.8576	mg/
		4.4000	3.5000	0.00000	0.90000	0.90000	0.02146	4.1432	mg/
		4.0000	3.5000	0.00000	0.50000	0.50000	0.01258	2.4288	mg/
Se	203.985	23.940	0.00000	22.540	1.4000	1.4000	0.06085	11.750	mg/
		22.580	0.00000	22.260	0.32000	0.32000	-0.01383	-2.6704	mg/
		22.280	0.00000	22.580	-0.30000	-0.30000	-0.05670	-10.949	mg/
Cr	205.552	14.100	0.00000	3.2000	10.900	10.900	0.23413	45.208	mg/
		14.400	0.00000	2.9000	11.500	11.500	0.24710	47.712	mg/
		14.100	0.00000	3.1000	11.000	11.000	0.23629	45.625	mg/
Sb	206.833	28.920	0.00000	26.320	2.6000	2.6000	0.03227	6.2308	mg/
		28.740	0.00000	27.900	0.84000	0.84000	0.00406	0.78401	mg/
		28.280	0.00000	28.020	0.26000	0.26000	-0.00524	-1.0110	mg/
Zn	213.856	2146.4	0.00000	2.6000	2143.8	2143.8	40.332	7787.6	mg/
		2139.7	0.00000	2.6000	2137.1	2137.1	40.206	7763.2	mg/
		2171.9	0.00000	2.4000	2169.5	2169.5	40.815	7881.0	mg/
Sb	217.581	26.720	0.00000	25.720	1.0000	1.0000	0.00295	0.56910	mg/
		26.480	0.00000	26.000	0.48000	0.48000	-0.00498	-0.96159	mg/
		26.400	0.00000	24.300	2.1000	2.1000	0.01972	3.8071	mg/
Pb	220.353	120.26	26.180	30.160	91.739	91.739	1.6200	312.80	mg/
		124.12	27.100	30.680	94.914	94.914	1.6759	323.59	mg/
		117.08	26.360	29.500	88.873	88.873	1.5695	303.06	mg/
Co	228.616	10.600	0.00000	4.7000	5.9000	5.9000	0.06995	13.507	mg/
		11.800	0.00000	4.7000	7.1000	7.1000	0.08451	16.318	mg/
		11.200	0.00000	5.3000	5.9000	5.9000	0.06995	13.507	mg/
Cd	228.802	6.8000	0.00000	2.4000	4.4000	4.4000	0.08187	15.808	mg/
		6.9000	0.00000	2.4000	4.5000	4.5000	0.08374	16.170	mg/
		7.1000	0.00000	2.4000	4.7000	4.7000	0.08749	16.894	mg/
Ni	231.604	663.50	0.00000	6.0000	657.50	657.50	9.9180	1915.1	mg/
		673.40	0.00000	7.0000	666.40	666.40	10.052	1941.0	mg/
		658.00	0.00000	6.2000	651.80	651.80	9.8321	1898.4	mg/
Be	234.861	17.000	0.00000	9.0000	8.0000	8.0000	0.00801	1.5473	mg/
		16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3539	mg/
		16.000	0.00000	9.0000	7.0000	7.0000	0.00701	1.3539	mg/
B	249.678	148.00	0.00000	12.400	135.60	135.60	0.27868	53.811	mg/
		151.70	0.00000	14.100	137.60	137.60	0.28301	54.646	mg/
		148.40	0.00000	12.300	136.10	136.10	0.27977	54.019	mg/
Mn	257.610	1721.0	0.00000	12.000	1709.0	1709.0	1.8444	356.13	mg/
		1763.0	0.00000	13.000	1750.0	1750.0	1.8887	364.68	mg/
		1754.0	0.00000	13.000	1741.0	1741.0	1.8790	362.80	mg/
Fe	259.940	11663	0.00000	13.000	11650	11650	135.47	26157	mg/
		12057	0.00000	13.000	12044	12044	140.05	27041	mg/
		11469	0.00000	13.000	11456	11456	133.21	25721	mg/
Fe	271.441	245.10	2.4000	0.00000	242.70	242.70	141.09	27243	mg/
		249.50	2.3000	0.00000	247.20	247.20	143.71	27748	mg/
		248.60	2.3000	0.00000	246.30	246.30	143.19	27647	mg/
Mg	279.553	24517	0.00000	17.000	24500	24500	22.663	4376.0	mg/
		23729	0.00000	17.000	23712	23712	21.934	4235.2	mg/
		23764	0.00000	16.000	23748	23748	21.967	4241.6	mg/
V	292.402	42.100	11.000	0.00000	31.100	31.100	0.20327	39.249	mg/
		43.100	11.200	0.00000	31.900	31.900	0.20842	40.243	mg/
		42.300	10.500	0.00000	31.800	31.800	0.20777	40.119	mg/
Al	308.215	294.60	2.8000	0.00000	291.80	291.80	85.265	16464	mg/
		300.00	2.2000	0.00000	297.80	297.80	87.018	16802	mg/
		305.90	2.7000	0.00000	303.20	303.20	88.596	17107	mg/
Ca	315.887	3166.0	0.00000	49.600	3116.4	3116.4	48.149	9296.9	mg/

Cu	324.754	10302	0.00000	147.00	10155	10155	7.8562	1516.9	mg/
		10489	0.00000	148.00	10341	10341	8.0002	1544.7	mg/
		11118	0.00000	146.00	10972	10972	8.4887	1639.1	mg/
Ag	328.068	178.90	0.00000	168.30	10.600	10.600	0.00440	0.85008	mg/
		188.70	0.00000	181.10	7.6000	7.6000	0.00207	0.40004	mg/
		187.10	0.00000	176.80	10.300	10.300	0.00417	0.80507	mg/
Ti	334.941	1755.0	0.00000	62.000	1693.0	1693.0	1.3822	266.89	mg/
		1782.0	0.00000	62.000	1720.0	1720.0	1.4043	271.16	mg/
		1732.0	0.00000	63.000	1669.0	1669.0	1.3626	263.10	mg/
Y	371.030	1480.0	0.00000	430.00	1050.0	1050.0	0.07838	15.135	mg/
		1410.0	0.00000	450.00	960.00	960.00	0.07173	13.850	mg/
		1420.0	0.00000	430.00	990.00	990.00	0.07395	14.278	mg/
Mg	383.826	7272.0	320.00	0.00000	6952.0	6952.0	21.304	4113.5	mg/
		7336.0	324.00	0.00000	7012.0	7012.0	21.487	4148.9	mg/
		7439.0	325.00	0.00000	7114.0	7114.0	21.799	4209.1	mg/
Ca	393.366	689840	0.00000	510.00	689330	689330	47.315	9135.9	mg/
		684450	0.00000	490.00	683960	683960	46.946	9064.7	mg/
		651760	0.00000	510.00	651250	651250	44.700	8630.9	mg/
Al	396.152	12603	0.00000	114.00	12489	12489	82.739	15976	mg/
		12204	0.00000	112.00	12092	12092	80.108	15468	mg/
		12485	0.00000	116.00	12369	.12369	81.944	15822	mg/
Sr	421.552	3820.0	210.00	0.00000	3610.0	3610.0	0.21368	41.258	mg/
		3640.0	210.00	0.00000	3430.0	3430.0	0.20298	39.193	mg/
		3640.0	210.00	0.00000	3430.0	3430.0	0.20298	39.193	mg/
Zn	481.053	832.00	0.00000	108.40	723.60	723.60	38.524	7438.5	mg/
		831.70	0.00000	102.50	729.20	729.20	38.823	7496.2	mg/
		833.20	0.00000	106.90	726.30	726.30	38.668	7466.3	mg/
Ba	493.409	38370	380.00	0.00000	37990	37990	2.0552	396.84	mg/
		37920	370.00	0.00000	37550	37550	2.0314	392.25	mg/
		40540	370.00	0.00000	40170	40170	2.1732	419.61	mg/
Na	588.995	547.00	105.00	0.00000	442.00	442.00	1.8532	357.83	mg/
		562.00	107.00	0.00000	455.00	455.00	1.9048	367.79	mg/
		560.00	108.00	0.00000	452.00	452.00	1.8929	365.49	mg/
Li	670.784	53.400	0.00000	15.400	38.000	38.000	0.07023	13.561	mg/
		53.400	0.00000	15.600	37.800	37.800	0.06986	13.488	mg/
		51.800	0.00000	15.100	36.700	36.700	0.06778	13.087	mg/
K	766.490	508.20	0.00000	28.800	479.40	479.40	13.725	2650.2	mg/
		492.10	0.00000	30.900	461.20	461.20	13.203	2549.4	mg/
		488.60	0.00000	28.400	460.20	460.20	13.175	2543.9	mg/
K	769.896	547.10	0.00000	50.300	496.80	496.80	13.294	2566.9	mg/
		557.70	0.00000	48.400	509.30	509.30	13.629	2631.5	mg/
		499.50	0.00000	51.300	448.20	448.20	11.993	2315.7	mg/

----- 13:29:36 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S07-990086- 22

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.17142	33.099 mg/L	11.960	36
Tl	190.864	0.51811	100.04 mg/L	4.7409	4.7
Tl	190.883	0.09215	17.793 mg/L	5.6917	32
As	193.759	-0.04090	-7.8970 mg/L	2.5890	33
Se	196.090	0.02223	4.2917 mg/L	7.2933	170
Mo	202.030	0.02146	4.1432 mg/L	1.7144	41
Se	203.985	-0.00323	-0.62309 mg/L	11.487	+o***
Cr	205.552	0.23918	46.182 mg/L	1.3414	2.9
Sb	206.833	0.01036	2.0013 mg/L	3.7712	190
Zn	213.856	40.451	7810.6 mg/L	62.146	0.80
Sb	217.581	0.00589	1.1382 mg/L	2.4348	210
Pb	220.353	1.6218	313.15 mg/L	10.268	3.3
Co	228.616	0.07480	14.444 mg/L	1.6228	11
Cd	228.802	0.08437	16.291 mg/L	0.55299	3.4

B	249.678	0.28049	54.159	mg/L	0.43462	0.80
Mn	257.610	1.8707	361.20	mg/L	4.4939	1.2
Fe	259.940	136.24	26306	mg/L	672.72	2.6
Fe	271.441	142.66	27546	mg/L	267.32	0.97
Mg	279.553	22.188	4284.2	mg/L	79.484	1.9
V	292.402	0.20649	39.870	mg/L	0.54140	1.4
Al	308.215	86.959	16791	mg/L	321.71	1.9
Ca	315.887	48.158	9298.6	mg/L	28.796	0.31
Cu	324.754	8.1150	1566.9	mg/L	64.015	4.1
Ag	328.068	0.00355	0.68506	mg/L	0.24786	36
Ti	334.941	1.3830	267.05	mg/L	4.0325	1.5
Y	371.030	0.07469	14.421	mg/L	0.65430	4.5
Mg	383.826	21.530	4157.2	mg/L	48.371	1.2
Ca	393.366	46.320	8943.9	mg/L	273.34	3.1
Al	396.152	81.597	15755	mg/L	260.50	1.6
Sr	421.552	0.20655	39.882	mg/L	1.1921	3.0
Zn	481.053	38.672	7467.0	mg/L	28.866	0.39
Ba	493.409	2.0866	402.90	mg/L	14.654	3.6
Na	588.995	1.8836	363.70	mg/L	5.2120	1.4
Li	670.784	0.06929	13.379	mg/L	0.25518	1.9
K	766.490	13.368	2581.2	mg/L	59.831	2.3
K	769.896	12.972	2504.7	mg/L	166.85	6.7

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011645nm #Steps = 25.87

Measurements for 99IE19S08-990086- 23

Sn	189.989	15.000	0.00000	9.3000	5.7000	5.7000	0.21060	41.994	mg/
		15.100	0.00000	9.6000	5.5000	5.5000	0.20472	40.822	mg/
		16.900	0.00000	10.600	6.3000	6.3000	0.22823	45.509	mg/
Tl	190.864	29.360	16.100	0.00000	13.260	13.260	0.41752	83.255	mg/
		31.140	14.280	0.00000	16.860	16.860	0.53459	106.60	mg/
		30.640	13.940	0.00000	16.700	16.700	0.52938	105.56	mg/
Tl	190.883	15.780	14.480	0.00000	1.3000	1.3000	0.12214	24.355	mg/
		14.360	13.320	0.00000	1.0400	1.0400	0.10519	20.975	mg/
		15.720	13.580	0.00000	2.1400	2.1400	0.17691	35.276	mg/
As	193.759	41.780	38.020	25.940	6.3486	6.3486	0.14365	28.645	mg/
		39.920	41.160	28.540	1.4643	1.4643	0.02670	5.3247	mg/
		43.920	41.260	25.480	6.0414	6.0414	0.13630	27.178	mg/
Se	196.090	7.8800	0.00000	7.7000	0.18000	0.18000	0.03527	7.0334	mg/
		7.7000	0.00000	8.3800	-0.68000	-0.68000	-0.02706	-5.3955	mg/
		7.6000	0.00000	8.1000	-0.50000	-0.50000	-0.01401	-2.7941	mg/
Mo	202.030	4.1000	3.7000	0.00000	0.40000	0.40000	0.01036	2.0656	mg/
		4.2000	3.6000	0.00000	0.60000	0.60000	0.01480	2.9508	mg/
		4.2000	3.7000	0.00000	0.50000	0.50000	0.01258	2.5082	mg/
Se	203.985	21.480	0.00000	19.180	2.3000	2.3000	0.12309	24.544	mg/
		20.580	0.00000	19.260	1.3200	1.3200	0.05532	11.031	mg/
		19.740	0.00000	20.380	-0.64000	-0.64000	-0.08021	-15.995	mg/
Cr	205.552	11.900	0.00000	2.8000	9.1000	9.1000	0.19523	38.929	mg/
		11.600	0.00000	2.6000	9.0000	9.0000	0.19307	38.498	mg/
		11.700	0.00000	2.6000	9.1000	9.1000	0.19523	38.929	mg/
Sb	206.833	32.120	0.00000	25.080	7.0400	7.0400	0.10343	20.625	mg/
		31.160	0.00000	24.940	6.2200	6.2200	0.09029	18.004	mg/
		29.500	0.00000	24.440	5.0600	5.0600	0.07170	14.297	mg/
Zn	213.856	2150.7	0.00000	2.8000	2147.9	2147.9	40.409	8057.6	mg/
		2128.4	0.00000	2.7000	2125.7	2125.7	39.991	7974.3	mg/
		2108.5	0.00000	2.4000	2106.1	2106.1	39.622	7900.8	mg/
Sb	217.581	31.420	0.00000	25.020	6.4000	6.4000	0.08527	17.003	mg/
		31.120	0.00000	25.120	6.0000	6.0000	0.07917	15.787	mg/
		30.220	0.00000	25.300	4.9200	4.9200	0.06271	12.504	mg/
Pb	220.353	154.68	25.880	28.600	127.20	127.20	2.2440	447.46	mg/
		150.60	26.840	27.360	123.45	123.45	2.1781	434.32	mg/
		146.98	27.340	28.680	118.85	118.85	2.0971	418.17	mg/

		8.0000	0.00000	5.0000	3.0000	3.0000	0.03477	6.9340	mg/
Cd	228.802	10.600	0.00000	2.4000	8.2000	8.2000	0.15312	30.531	mg/
		10.900	0.00000	2.2000	8.7000	8.7000	0.16249	32.401	mg/
		10.800	0.00000	2.3000	8.5000	8.5000	0.15874	31.653	mg/
Ni	231.604	547.40	0.00000	6.5000	540.90	540.90	8.1593	1627.0	mg/
		565.90	0.00000	6.1000	559.80	559.80	8.4444	1683.8	mg/
		552.20	0.00000	6.2000	546.00	546.00	8.2362	1642.3	mg/
Be	234.861	15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1984	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1984	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1984	mg/
B	249.678	94.800	0.00000	13.700	81.100	81.100	0.16082	32.069	mg/
		98.000	0.00000	12.300	85.700	85.700	0.17077	34.052	mg/
		98.800	0.00000	12.600	86.200	86.200	0.17185	34.268	mg/
Mn	257.610	674.00	0.00000	12.000	662.00	662.00	0.71357	142.29	mg/
		639.00	0.00000	11.000	628.00	628.00	0.67684	134.96	mg/
		660.00	0.00000	12.000	648.00	648.00	0.69844	139.27	mg/
Fe	259.940	11685	0.00000	13.000	11672	11672	135.72	27063	mg/
		11440	0.00000	13.000	11427	11427	132.87	26495	mg/
		11592	0.00000	13.000	11579	11579	134.64	26848	mg/
Fe	271.441	233.40	2.2000	0.00000	231.20	231.20	134.41	26801	mg/
		237.10	2.3000	0.00000	234.80	234.80	136.50	27218	mg/
		245.90	2.3000	0.00000	243.60	243.60	141.62	28238	mg/
Mg	279.553	28842	0.00000	19.000	28823	28823	26.663	5316.6	mg/
		28410	0.00000	18.000	28392	28392	26.264	5237.1	mg/
		28623	0.00000	18.000	28605	28605	26.461	5276.4	mg/
V	292.402	41.000	10.300	0.00000	30.700	30.700	0.20070	40.020	mg/
		36.000	11.200	0.00000	24.800	24.800	0.16275	32.452	mg/
		41.700	10.300	0.00000	31.400	31.400	0.20520	40.918	mg/
Al	308.215	209.10	2.6000	0.00000	206.50	206.50	60.343	12032	mg/
		216.90	2.9000	0.00000	214.00	214.00	62.534	12469	mg/
		213.60	2.9000	0.00000	210.70	210.70	61.570	12277	mg/
Ca	315.887	3155.3	0.00000	50.100	3105.2	3105.2	47.976	9566.5	mg/
		3052.4	0.00000	50.000	3002.4	3002.4	46.389	9250.1	mg/
		3129.8	0.00000	50.600	3079.2	3079.2	47.575	9486.5	mg/
Cu	324.754	28880	0.00000	173.00	28707	28707	22.219	4430.6	mg/
		30063	0.00000	172.00	29891	29891	23.136	4613.4	mg/
		30989	0.00000	173.00	30816	30816	23.852	4756.2	mg/
Ag	328.068	237.00	0.00000	174.50	62.500	62.500	0.04472	8.9182	mg/
		230.10	0.00000	174.30	55.800	55.800	0.03952	7.8802	mg/
		226.10	0.00000	170.50	55.600	55.600	0.03936	7.8492	mg/
Ti	334.941	1507.0	0.00000	59.000	1448.0	1448.0	1.1817	235.63	mg/
		1524.0	0.00000	60.000	1464.0	1464.0	1.1948	238.24	mg/
		1540.0	0.00000	61.000	1479.0	1479.0	1.2071	240.69	mg/
Y	371.030	1220.0	0.00000	440.00	780.00	780.00	0.05842	11.649	mg/
		1230.0	0.00000	430.00	800.00	800.00	0.05990	11.943	mg/
		1190.0	0.00000	430.00	760.00	760.00	0.05694	11.354	mg/
Mg	383.826	8665.0	338.00	0.00000	8327.0	8327.0	25.509	5086.6	mg/
		8808.0	335.00	0.00000	8473.0	8473.0	25.956	5175.6	mg/
		9217.0	327.00	0.00000	8890.0	8890.0	27.231	5430.0	mg/
Ca	393.366	660490	0.00000	480.00	660010	660010	45.301	9033.1	mg/
		675350	0.00000	490.00	674860	674860	46.321	9236.5	mg/
		689010	0.00000	490.00	688520	688520	47.259	9423.6	mg/
Al	396.152	9287.8	0.00000	99.500	9188.3	9188.3	60.868	12137	mg/
		8840.1	0.00000	100.20	8739.9	8739.9	57.897	11545	mg/
		9063.1	0.00000	100.40	8962.7	8962.7	59.373	11839	mg/
Sr	421.552	3340.0	210.00	0.00000	3130.0	3130.0	0.18516	36.921	mg/
		3280.0	210.00	0.00000	3070.0	3070.0	0.18159	36.210	mg/
		3440.0	210.00	0.00000	3230.0	3230.0	0.19110	38.106	mg/
Zn	481.053	814.00	0.00000	104.10	709.90	709.90	37.793	7535.9	mg/
		821.80	0.00000	107.60	714.20	714.20	38.022	7581.7	mg/
		802.50	0.00000	107.40	695.10	695.10	37.003	7378.4	mg/
Ba	493.409	36450	360.00	0.00000	36090	36090	1.9525	389.33	mg/
		36420	370.00	0.00000	36050	36050	1.9503	388.89	mg/
		38050	370.00	0.00000	37680	37680	2.0385	406.48	mg/

		422.00	107.00	0.00000	315.00	315.00	1.3496	269.11	mg/
Li	670.784	43.900	0.00000	15.400	28.500	28.500	0.05230	10.428	mg/
		43.500	0.00000	15.700	27.800	27.800	0.05098	10.165	mg/
		43.800	0.00000	14.700	29.100	29.100	0.05343	10.654	mg/
K	766.490	415.50	0.00000	28.000	387.50	387.50	11.091	2211.5	mg/
		418.80	0.00000	27.900	390.90	390.90	11.188	2230.9	mg/
		423.20	0.00000	26.700	396.50	396.50	11.349	2262.9	mg/
K	769.896	471.10	0.00000	47.400	423.70	423.70	11.337	2260.7	mg/
		476.90	0.00000	47.800	429.10	429.10	11.482	2289.5	mg/
		476.80	0.00000	51.900	424.90	424.90	11.369	2267.1	mg/

----- 13:37:32 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S08-990086- 23

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.21452	42.775 mg/L	2.4395	5.7
Tl	190.864	0.49383	98.471 mg/L	13.188	13
Tl	190.883	0.13475	26.869 mg/L	7.4746	28
As	193.759	0.10222	20.382 mg/L	13.061	64
Se	196.090	-0.00193	-0.38539 mg/L	6.5552	+o***
Mo	202.030	0.01258	2.5082 mg/L	0.44262	18
Se	203.985	0.03273	6.5266 mg/L	20.641	320
Cr	205.552	0.19451	38.786 mg/L	0.24881	0.64
Sb	206.833	0.08847	17.642 mg/L	3.1795	18
Zn	213.856	40.008	7977.6 mg/L	78.475	0.98
Sb	217.581	0.07572	15.098 mg/L	2.3273	15
Pb	220.353	2.1731	433.32 mg/L	14.673	3.4
Co	228.616	0.04044	8.0628 mg/L	1.2175	15
Cd	228.802	0.15812	31.528 mg/L	0.94085	3.0
Ni	231.604	8.2799	1651.0 mg/L	29.410	1.8
Be	234.861	0.00601	1.1984 mg/L	0.00000	0.00
B	249.678	0.16782	33.463 mg/L	1.2123	3.6
Mn	257.610	0.69628	138.84 mg/L	3.6802	2.6
Fe	259.940	134.41	26802 mg/L	286.77	1.1
Fe	271.441	137.51	27419 mg/L	739.58	2.7
Mg	279.553	26.463	5276.7 mg/L	39.758	0.75
V	292.402	0.18955	37.796 mg/L	4.6502	12
Al	308.215	61.482	12260 mg/L	219.00	1.8
Ca	315.887	47.313	9434.4 mg/L	164.50	1.7
Cu	324.754	23.069	4600.0 mg/L	163.20	3.5
Ag	328.068	0.04120	8.2159 mg/L	0.60841	7.4
Ti	334.941	1.1945	238.19 mg/L	2.5303	1.1
Y	371.030	0.05842	11.649 mg/L	0.29490	2.5
Mg	383.826	26.232	5230.7 mg/L	178.19	3.4
Ca	393.366	46.294	9231.1 mg/L	195.29	2.1
Al	396.152	59.379	11840 mg/L	296.23	2.5
Sr	421.552	0.18595	37.079 mg/L	0.95753	2.6
Zn	481.053	37.606	7498.7 mg/L	106.65	1.4
Ba	493.409	1.9804	394.90 mg/L	10.029	2.5
Na	588.995	1.3602	271.22 mg/L	5.0837	1.9
Li	670.784	0.05223	10.416 mg/L	0.24495	2.3
K	766.490	11.209	2235.1 mg/L	25.981	1.2
K	769.896	11.396	2272.4 mg/L	15.136	0.67

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.011851nm #Steps = 26.33

Measurements for 99IE19S09-990086- 24

Sn	189.989	14.900	0.00000	10.000	4.9000	4.9000	0.18709	35.896	mg/
		14.600	0.00000	10.400	4.2000	4.2000	0.16652	31.949	mg/

		39.200	16.280	0.00000	22.920	22.920	0.73164	140.38	mg/
		39.220	14.980	0.00000	24.240	24.240	0.77457	148.61	mg/
Tl	190.883	15.660	15.500	0.00000	0.16000	0.16000	0.04781	9.1738	mg/
		15.460	16.160	0.00000	-0.70000	-0.70000	-0.00826	-1.5846	mg/
		16.240	15.800	0.00000	0.44000	0.44000	0.06607	12.676	mg/
As	193.759	48.640	52.840	32.120	0.24000	0.24000	-0.00261	-0.50098	mg/
		49.960	50.980	30.780	3.3086	3.3086	0.07086	13.596	mg/
		49.640	52.580	30.260	1.8428	1.8428	0.03577	6.8626	mg/
Se	196.090	8.3200	0.00000	8.6600	-0.34000	-0.34000	-0.00242	-0.46353	mg/
		8.3400	0.00000	9.1400	-0.80000	-0.80000	-0.03576	-6.8603	mg/
		8.6400	0.00000	8.9200	-0.28000	-0.28000	0.00193	0.37083	mg/
Mo	202.030	4.3000	4.3000	0.00000	0.00000	0.00000	0.00148	0.28393	mg/
		3.9000	4.3000	0.00000	-0.40000	-0.40000	-0.00740	-1.4196	mg/
		4.6000	4.8000	0.00000	-0.20000	-0.20000	-0.00296	-0.56786	mg/
Se	203.985	23.540	0.00000	22.480	1.0600	1.0600	0.03734	7.1644	mg/
		22.040	0.00000	22.300	-0.26000	-0.26000	-0.05394	-10.349	mg/
		22.300	0.00000	21.800	0.50000	0.50000	-0.00138	-0.26535	mg/
Cr	205.552	16.400	0.00000	3.1000	13.300	13.300	0.28600	54.874	mg/
		16.400	0.00000	2.7000	13.700	13.700	0.29465	56.532	mg/
		17.200	0.00000	2.8000	14.400	14.400	0.30978	59.435	mg/
Sb	206.833	28.160	0.00000	27.220	0.94000	0.94000	0.00566	1.0866	mg/
		29.340	0.00000	28.560	0.78000	0.78000	0.00310	0.59454	mg/
		27.320	0.00000	28.380	-1.0600	-1.0600	-0.02639	-5.0638	mg/
Zn	213.856	1891.4	0.00000	2.5000	1888.9	1888.9	35.535	6817.9	mg/
		1892.9	0.00000	2.4000	1890.5	1890.5	35.565	6823.7	mg/
		1899.8	0.00000	2.4000	1897.4	1897.4	35.695	6848.6	mg/
Sb	217.581	26.800	0.00000	26.440	0.36000	0.36000	-0.00681	-1.3065	mg/
		27.220	0.00000	26.320	0.90000	0.90000	0.00142	0.27300	mg/
		27.460	0.00000	26.660	0.80000	0.80000	-0.00010	-0.01950	mg/
Pb	220.353	193.82	25.740	30.800	165.10	165.10	2.9110	558.53	mg/
		192.60	26.900	29.800	163.99	163.99	2.8915	554.78	mg/
		193.50	25.740	31.720	164.24	164.24	2.8959	555.62	mg/
Co	228.616	10.500	0.00000	5.1000	5.4000	5.4000	0.06389	12.258	mg/
		10.400	0.00000	4.8000	5.6000	5.6000	0.06631	12.723	mg/
		10.900	0.00000	5.1000	5.8000	5.8000	0.06874	13.189	mg/
Cd	228.802	23.500	0.00000	2.3000	21.200	21.200	0.39685	76.142	mg/
		24.800	0.00000	2.3000	22.500	22.500	0.42122	80.818	mg/
		23.900	0.00000	2.1000	21.800	21.800	0.40810	78.300	mg/
Ni	231.604	351.70	0.00000	6.1000	345.60	345.60	5.2134	1000.3	mg/
		351.40	0.00000	6.6000	344.80	344.80	5.2014	997.96	mg/
		359.60	0.00000	6.6000	353.00	353.00	5.3250	1021.7	mg/
Be	234.861	17.000	0.00000	10.000	7.0000	7.0000	0.00701	1.3453	mg/
		18.000	0.00000	10.000	8.0000	8.0000	0.00801	1.5375	mg/
		17.000	0.00000	10.000	7.0000	7.0000	0.00701	1.3453	mg/
B	249.678	120.50	0.00000	13.700	106.80	106.80	0.21640	41.520	mg/
		119.70	0.00000	14.200	105.50	105.50	0.21359	40.981	mg/
		115.00	0.00000	14.100	100.90	100.90	0.20364	39.072	mg/
Mn	257.610	1381.0	0.00000	13.000	1368.0	1368.0	1.4761	283.21	mg/
		1461.0	0.00000	13.000	1448.0	1448.0	1.5625	299.79	mg/
		1419.0	0.00000	13.000	1406.0	1406.0	1.5171	291.09	mg/
Fe	259.940	16162	0.00000	15.000	16147	16147	187.76	36024	mg/
		15939	0.00000	15.000	15924	15924	185.17	35527	mg/
		16028	0.00000	15.000	16013	16013	186.20	35725	mg/
Fe	271.441	350.90	2.3000	0.00000	348.60	348.60	202.66	38884	mg/
		329.80	2.4000	0.00000	327.40	327.40	190.34	36519	mg/
		342.90	2.3000	0.00000	340.60	340.60	198.01	37992	mg/
Mg	279.553	25896	0.00000	17.000	25879	25879	23.939	4593.0	mg/
		25485	0.00000	17.000	25468	25468	23.559	4520.1	mg/
		26541	0.00000	17.000	26524	26524	24.536	4707.5	mg/
V	292.402	42.500	13.200	0.00000	29.300	29.300	0.19169	36.779	mg/
		44.200	13.800	0.00000	30.400	30.400	0.19877	38.137	mg/
		41.300	12.900	0.00000	28.400	28.400	0.18590	35.668	mg/
Al	308.215	297.90	2.6000	0.00000	295.30	295.30	86.287	16556	mg/
		296.00	2.5000	0.00000	293.50	293.50	85.762	16455	mg/

		4210.8	0.00000	52.500	4158.3	4158.3	64.230	12323	mg/
		4289.2	0.00000	52.200	4237.0	4237.0	65.444	12556	mg/
Cu	324.754	16984	0.00000	169.00	16815	16815	13.012	2496.6	mg/
		16015	0.00000	168.00	15847	15847	12.263	2352.8	mg/
		17209	0.00000	173.00	17036	17036	13.184	2529.5	mg/
Ag	328.068	202.80	0.00000	168.30	34.500	34.500	0.02297	4.4073	mg/
		206.70	0.00000	176.10	30.600	30.600	0.01994	3.8260	mg/
		207.30	0.00000	174.90	32.400	32.400	0.02134	4.0943	mg/
Ti	334.941	1524.0	0.00000	61.000	1463.0	1463.0	1.1940	229.08	mg/
		1525.0	0.00000	60.000	1465.0	1465.0	1.1956	229.39	mg/
		1523.0	0.00000	62.000	1461.0	1461.0	1.1923	228.77	mg/
Y	371.030	1360.0	0.00000	460.00	900.00	900.00	0.06729	12.911	mg/
		1340.0	0.00000	450.00	890.00	890.00	0.06655	12.769	mg/
		1370.0	0.00000	440.00	930.00	930.00	0.06951	13.336	mg/
Mg	383.826	7817.0	333.00	0.00000	7484.0	7484.0	22.931	4399.6	mg/
		8005.0	341.00	0.00000	7664.0	7664.0	23.481	4505.3	mg/
		7813.0	342.00	0.00000	7471.0	7471.0	22.891	4392.0	mg/
Ca	393.366	884380	0.00000	640.00	883740	883740	60.668	11640	mg/
		875550	0.00000	630.00	874920	874920	60.062	11524	mg/
		878110	0.00000	660.00	877450	877450	60.236	11557	mg/
Al	396.152	12109	0.00000	119.00	11990	11990	79.432	15240	mg/
		12054	0.00000	120.00	11934	11934	79.061	15169	mg/
		12225	0.00000	121.00	12104	12104	80.188	15385	mg/
Sr	421.552	5150.0	220.00	0.00000	4930.0	4930.0	0.29210	56.043	mg/
		5210.0	220.00	0.00000	4990.0	4990.0	0.29566	56.727	mg/
		5220.0	210.00	0.00000	5010.0	5010.0	0.29685	56.955	mg/
Zn	481.053	739.20	0.00000	106.20	633.00	633.00	33.688	6463.5	mg/
		746.00	0.00000	107.50	638.50	638.50	33.981	6519.8	mg/
		752.70	0.00000	107.30	645.40	645.40	34.350	6590.5	mg/
Ba	493.409	53870	380.00	0.00000	53490	53490	2.8937	555.20	mg/
		56880	380.00	0.00000	56500	56500	3.0565	586.44	mg/
		55270	380.00	0.00000	54890	54890	2.9694	569.73	mg/
Na	588.995	358.00	109.00	0.00000	249.00	249.00	1.0879	208.73	mg/
		368.00	113.00	0.00000	255.00	255.00	1.1117	213.29	mg/
		354.00	115.00	0.00000	239.00	239.00	1.0482	201.12	mg/
Li	670.784	54.100	0.00000	15.600	38.500	38.500	0.07118	13.657	mg/
		51.300	0.00000	15.700	35.600	35.600	0.06570	12.606	mg/
		52.200	0.00000	15.300	36.900	36.900	0.06816	13.077	mg/
K	766.490	531.40	0.00000	28.200	503.20	503.20	14.408	2764.3	mg/
		495.00	0.00000	30.500	464.50	464.50	13.298	2551.4	mg/
		526.70	0.00000	28.400	498.30	498.30	14.267	2737.4	mg/
K	769.896	561.70	0.00000	47.700	514.00	514.00	13.755	2639.0	mg/
		561.30	0.00000	51.000	510.30	510.30	13.655	2620.0	mg/
		568.00	0.00000	51.000	517.00	517.00	13.835	2654.4	mg/

----- 13:45:27 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S09-990086- 24

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.16554	31.761 mg/L	4.2317	13
Tl	190.864	0.74422	142.79 mg/L	5.0675	3.5
Tl	190.883	0.03521	6.7552 mg/L	7.4318	110
As	193.759	0.03467	6.6525 mg/L	7.0509	110
Se	196.090	-0.01208	-2.3177 mg/L	3.9561	170
Mo	202.030	-0.00296	-0.56786 mg/L	0.85179	150
Se	203.985	-0.00599	-1.1498 mg/L	8.7899	760
Cr	205.552	0.29681	56.947 mg/L	2.3087	4.0
Sb	206.833	-0.00588	-1.1276 mg/L	3.4177	300
Zn	213.856	35.598	6830.1 mg/L	16.309	0.24
Sb	217.581	-0.00183	-0.35100 mg/L	0.84031	240
Pb	220.353	2.8995	556.31 mg/L	1.9659	0.35

Ni	231.604	5.2466	1006.6	mg/L	13.084	1.3
Be	234.861	0.00735	1.4094	mg/L	0.11096	7.9
B	249.678	0.21121	40.524	mg/L	1.2863	3.2
Mn	257.610	1.5186	291.36	mg/L	8.2925	2.8
Fe	259.940	186.38	35759	mg/L	250.45	0.70
Fe	271.441	197.01	37798	mg/L	1194.3	3.2
Mg	279.553	24.011	4606.9	mg/L	94.492	2.0
V	292.402	0.19212	36.861	mg/L	1.2363	3.3
Al	308.215	86.161	16531	mg/L	67.811	0.41
Ca	315.887	64.755	12424	mg/L	119.64	0.96
Cu	324.754	12.820	2459.6	mg/L	93.940	3.8
Ag	328.068	0.02142	4.1092	mg/L	0.29096	7.1
Ti	334.941	1.1940	229.08	mg/L	0.31409	0.14
Y	371.030	0.06778	13.005	mg/L	0.29534	2.3
Mg	383.826	23.101	4432.3	mg/L	63.305	1.4
Ca	393.366	60.322	11574	mg/L	59.849	0.52
Al	396.152	79.560	15265	mg/L	110.14	0.72
Sr	421.552	0.29487	56.575	mg/L	0.47456	0.84
Zn	481.053	34.006	6524.6	mg/L	63.633	0.98
Ba	493.409	2.9732	570.46	mg/L	15.633	2.7
Na	588.995	1.0826	207.71	mg/L	6.1498	3.0
Li	670.784	0.06835	13.113	mg/L	0.52619	4.0
K	766.490	13.991	2684.4	mg/L	115.91	4.3
K	769.896	13.748	2637.8	mg/L	17.238	0.65

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012130nm #Steps = 26.95

Measurements for 99IE19S10-990086- 25

Sn	189.989	11.700	0.00000	13.000	-1.3000	-1.3000	0.00490	0.96658	mg/
		12.000	0.00000	9.6000	2.4000	2.4000	0.11363	22.425	mg/
		13.300	0.00000	9.8000	3.5000	3.5000	0.14595	28.804	mg/
Tl	190.864	29.100	15.940	0.00000	13.160	13.160	0.41427	81.759	mg/
		29.940	14.940	0.00000	15.000	15.000	0.47411	93.567	mg/
		31.020	16.020	0.00000	15.000	15.000	0.47411	93.567	mg/
Tl	190.883	16.660	15.020	0.00000	1.6400	1.6400	0.14431	28.480	mg/
		15.220	15.980	0.00000	-0.76000	-0.76000	-0.01217	-2.4020	mg/
		14.940	15.600	0.00000	-0.66000	-0.66000	-0.00565	-1.1152	mg/
As	193.759	47.280	54.340	31.800	-2.2300	-2.2300	-0.06175	-12.187	mg/
		50.340	54.400	31.820	0.77857	0.77857	0.01028	2.0297	mg/
		48.620	54.060	30.540	-0.40000	-0.40000	-0.01794	-3.5396	mg/
Se	196.090	8.3600	0.00000	8.0400	0.32000	0.32000	0.04542	8.9638	mg/
		8.3000	0.00000	9.4800	-1.1800	-1.1800	-0.06330	-12.492	mg/
		8.2800	0.00000	9.1000	-0.82000	-0.82000	-0.03721	-7.3427	mg/
Mo	202.030	4.6000	4.4000	0.00000	0.20000	0.20000	0.00592	1.1682	mg/
		4.1000	4.5000	0.00000	-0.40000	-0.40000	-0.00740	-1.4603	mg/
		4.6000	3.9000	0.00000	0.70000	0.70000	0.01702	3.3586	mg/
Se	203.985	24.200	0.00000	22.340	1.8600	1.8600	0.09266	18.287	mg/
		24.160	0.00000	22.780	1.3800	1.3800	0.05947	11.737	mg/
		23.900	0.00000	21.660	2.2400	2.2400	0.11894	23.473	mg/
Cr	205.552	19.700	0.00000	2.7000	17.000	17.000	0.36597	72.226	mg/
		18.000	0.00000	3.0000	15.000	15.000	0.32274	63.695	mg/
		18.600	0.00000	3.0000	15.600	15.600	0.33571	66.254	mg/
Sb	206.833	28.180	0.00000	27.340	0.84000	0.84000	0.00406	0.80134	mg/
		30.040	0.00000	27.380	2.6600	2.6600	0.03323	6.5583	mg/
		28.540	0.00000	28.520	0.02000	0.02000	-0.00908	-1.7925	mg/
Zn	213.856	1551.7	0.00000	2.3000	1549.4	1549.4	29.146	5752.2	mg/
		1547.4	0.00000	2.3000	1545.1	1545.1	29.065	5736.2	mg/
		1571.3	0.00000	2.4000	1568.9	1568.9	29.513	5824.6	mg/
Sb	217.581	26.500	0.00000	26.420	0.08000	0.08000	-0.01108	-2.1863	mg/
		25.480	0.00000	25.280	0.20000	0.20000	-0.00925	-1.8253	mg/
		26.140	0.00000	25.160	0.98000	0.98000	0.00264	0.52151	mg/
Pb	220.353	350.40	25.300	30.840	321.84	321.84	5.6693	1118.9	mg/

Co	228.616	9.6000	0.00000	4.8000	4.8000	4.8000	0.05661	11.172	mg/
		9.6000	0.00000	4.4000	5.2000	5.2000	0.06146	12.130	mg/
		10.000	0.00000	4.8000	5.2000	5.2000	0.06146	12.130	mg/
Cd	228.802	20.600	0.00000	2.2000	18.400	18.400	0.34435	67.960	mg/
		22.000	0.00000	2.3000	19.700	19.700	0.36873	72.770	mg/
		22.000	0.00000	2.4000	19.600	19.600	0.36685	72.400	mg/
Ni	231.604	222.00	0.00000	6.5000	215.50	215.50	3.2510	641.61	mg/
		215.50	0.00000	6.6000	208.90	208.90	3.1515	621.96	mg/
		205.50	0.00000	6.4000	199.10	199.10	3.0037	592.79	mg/
Be	234.861	15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1861	mg/
		17.000	0.00000	9.0000	8.0000	8.0000	0.00801	1.5815	mg/
		17.000	0.00000	9.0000	8.0000	8.0000	0.00801	1.5815	mg/
B	249.678	112.00	0.00000	12.700	99.300	99.300	0.20018	39.507	mg/
		113.30	0.00000	12.400	100.90	100.90	0.20364	40.190	mg/
		109.50	0.00000	12.800	96.700	96.700	0.19456	38.398	mg/
Mn	257.610	1099.0	0.00000	12.000	1087.0	1087.0	1.1726	231.42	mg/
		1141.0	0.00000	12.000	1129.0	1129.0	1.2180	240.37	mg/
		1139.0	0.00000	13.000	1126.0	1126.0	1.2147	239.73	mg/
Fe	259.940	10517	0.00000	7.7000	10510	10510	122.21	24118	mg/
		10494	0.00000	13.000	10481	10481	121.87	24052	mg/
		10755	0.00000	13.000	10742	10742	124.91	24651	mg/
Fe	271.441	222.90	2.1000	0.00000	220.80	220.80	128.36	25332	mg/
		234.00	2.2000	0.00000	231.80	231.80	134.75	26595	mg/
		220.30	2.4000	0.00000	217.90	217.90	126.67	25000	mg/
Mg	279.553	34029	0.00000	21.000	34008	34008	31.460	6208.8	mg/
		34487	0.00000	22.000	34465	34465	31.883	6292.2	mg/
		33629	0.00000	22.000	33607	33607	31.089	6135.6	mg/
V	292.402	45.200	10.300	0.00000	34.900	34.900	0.22772	44.941	mg/
		47.000	9.9000	0.00000	37.100	37.100	0.24187	47.734	mg/
		42.800	10.300	0.00000	32.500	32.500	0.21228	41.894	mg/
Al	308.215	322.50	2.9000	0.00000	319.60	319.60	93.387	18430	mg/
		331.70	2.7000	0.00000	329.00	329.00	96.134	18972	mg/
		334.70	2.9000	0.00000	331.80	331.80	96.952	19134	mg/
Ca	315.887	5350.2	0.00000	55.600	5294.6	5294.6	81.768	16137	mg/
		5350.5	0.00000	54.900	5295.6	5295.6	81.783	16140	mg/
		5432.9	0.00000	55.700	5377.2	5377.2	83.042	16389	mg/
Cu	324.754	3346.0	0.00000	138.00	3208.0	3208.0	2.4777	489.00	mg/
		3308.0	0.00000	137.00	3171.0	3171.0	2.4491	483.34	mg/
		3266.0	0.00000	137.00	3129.0	3129.0	2.4166	476.92	mg/
Ag	328.068	177.90	0.00000	176.70	1.2000	1.2000	-0.00290	-0.57243	mg/
		185.40	0.00000	177.80	7.6000	7.6000	0.00207	0.40888	mg/
		190.30	0.00000	162.20	28.100	28.100	0.01800	3.5521	mg/
Ti	334.941	1293.0	0.00000	61.000	1232.0	1232.0	1.0049	198.32	mg/
		1305.0	0.00000	61.000	1244.0	1244.0	1.0147	200.26	mg/
		1283.0	0.00000	61.000	1222.0	1222.0	0.99670	196.70	mg/
Y	371.030	1440.0	0.00000	450.00	990.00	990.00	0.07395	14.594	mg/
		1460.0	0.00000	450.00	1010.0	1010.0	0.07543	14.886	mg/
		1410.0	0.00000	440.00	970.00	970.00	0.07247	14.302	mg/
Mg	383.826	10745	342.00	0.00000	10403	10403	31.859	6287.6	mg/
		10802	348.00	0.00000	10454	10454	32.015	6318.3	mg/
		10808	348.00	0.00000	10460	10460	32.033	6322.0	mg/
Ca	393.366	+o******	0.00000	770.00	+o******	+o******	71.206	14053	mg/
		+o******	0.00000	780.00	+o******	+o******	72.480	14304	mg/
		+o******	0.00000	780.00	+o******	+o******	72.112	14232	mg/
Al	396.152	13386	0.00000	126.00	13260	13260	87.848	17337	mg/
		13414	0.00000	126.00	13288	13288	88.033	17374	mg/
		13180	0.00000	126.00	13054	13054	86.483	17068	mg/
Sr	421.552	4580.0	210.00	0.00000	4370.0	4370.0	0.25883	51.081	mg/
		4570.0	210.00	0.00000	4360.0	4360.0	0.25823	50.964	mg/
		4770.0	220.00	0.00000	4550.0	4550.0	0.26952	53.191	mg/
Zn	481.053	647.40	0.00000	107.10	540.30	540.30	28.740	5671.9	mg/
		651.70	0.00000	110.50	541.20	541.20	28.788	5681.4	mg/
		653.00	0.00000	109.30	543.70	543.70	28.921	5707.7	mg/
Ba	493.409	36170	370.00	0.00000	35800	35800	1.9368	382.23	mg/

Na	588.995	450.00	112.00	0.00000	338.00	338.00	1.4408	284.35	mg/
		449.00	109.00	0.00000	340.00	340.00	1.4487	285.92	mg/
		453.00	103.00	0.00000	350.00	350.00	1.4884	293.74	mg/
Li	670.784	59.100	0.00000	15.700	43.400	43.400	0.08043	15.873	mg/
		57.500	0.00000	15.400	42.100	42.100	0.07797	15.389	mg/
		58.600	0.00000	15.300	43.300	43.300	0.08024	15.836	mg/
K	766.490	594.60	0.00000	28.800	565.80	565.80	16.202	3197.6	mg/
		614.40	0.00000	30.900	583.50	583.50	16.710	3297.8	mg/
		599.70	0.00000	28.900	570.80	570.80	16.346	3225.9	mg/
K	769.896	654.70	0.00000	48.800	605.90	605.90	16.215	3200.1	mg/
		654.30	0.00000	46.200	608.10	608.10	16.274	3211.7	mg/
		672.50	0.00000	50.500	622.00	622.00	16.646	3285.1	mg/

----- 13:53:22 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S10-990086- 25

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.08816	17.398 mg/L	14.583	84
Tl	190.864	0.45416	89.631 mg/L	6.8175	7.6
Tl	190.883	0.04216	8.3211 mg/L	17.470	210
As	193.759	-0.02313	-4.5657 mg/L	7.1638	160
Se	196.090	-0.01836	-3.6236 mg/L	11.201	310
Mo	202.030	0.00518	1.0222 mg/L	2.4128	240
Se	203.985	0.09036	17.832 mg/L	5.8815	33
Cr	205.552	0.34147	67.392 mg/L	4.3776	6.5
Sb	206.833	0.00940	1.8557 mg/L	4.2741	230
Zn	213.856	29.242	5771.0 mg/L	47.104	0.82
Sb	217.581	-0.00589	-1.1634 mg/L	1.4703	130
Pb	220.353	5.6427	1113.6 mg/L	4.5439	0.41
Co	228.616	0.05984	11.811 mg/L	0.55288	4.7
Cd	228.802	0.35998	71.044 mg/L	2.6768	3.8
Ni	231.604	3.1354	618.79 mg/L	24.565	4.0
Be	234.861	0.00735	1.4497 mg/L	0.22827	16
B	249.678	0.19946	39.365 mg/L	0.90470	2.3
Mn	257.610	1.2018	237.17 mg/L	4.9944	2.1
Fe	259.940	123.00	24274 mg/L	328.46	1.3
Fe	271.441	129.93	25642 mg/L	841.42	3.3
Mg	279.553	31.477	6212.2 mg/L	78.389	1.3
V	292.402	0.22729	44.856 mg/L	2.9208	6.5
Al	308.215	95.491	18846 mg/L	368.49	2.0
Ca	315.887	82.198	16222 mg/L	144.39	0.89
Cu	324.754	2.4478	483.09 mg/L	6.0394	1.2
Ag	328.068	0.00572	1.1295 mg/L	2.1546	190
Ti	334.941	1.0054	198.43 mg/L	1.7794	0.90
Y	371.030	0.07395	14.594 mg/L	0.29187	2.0
Mg	383.826	31.969	6309.3 mg/L	18.907	0.30
Ca	393.366	71.933	14196 mg/L	129.34	0.91
Al	396.152	87.454	17260 mg/L	167.11	0.97
Sr	421.552	0.26219	51.745 mg/L	1.2537	2.4
Zn	481.053	28.816	5687.0 mg/L	18.558	0.33
Ba	493.409	1.8802	371.06 mg/L	9.8458	2.6
Na	588.995	1.4593	288.00 mg/L	5.0315	1.7
Li	670.784	0.07955	15.699 mg/L	0.26955	1.7
K	766.490	16.419	3240.4 mg/L	51.630	1.6
K	769.896	16.378	3232.3 mg/L	46.122	1.4

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012373nm #Steps = 27.49

Measurements for 99IE19S11-990086- 26

		12.300	0.00000	10.700	1.6000	1.6000	0.09012	17.208	mg/
Tl	190.864	35.840	16.920	0.00000	18.920	18.920	0.60157	114.87	mg/
		31.240	14.360	0.00000	16.880	16.880	0.53524	102.20	mg/
		32.600	16.600	0.00000	16.000	16.000	0.50662	96.739	mg/
Tl	190.883	16.860	17.340	0.00000	-0.48000	-0.48000	0.00609	1.1620	mg/
		17.020	15.960	0.00000	1.0600	1.0600	0.10649	20.335	mg/
		16.220	15.740	0.00000	0.48000	0.48000	0.06868	13.114	mg/
As	193.759	52.520	61.920	36.140	-3.8757	-3.8757	-0.10116	-19.316	mg/
		54.320	57.940	34.880	1.3214	1.3214	0.02328	4.4458	mg/
		51.100	58.120	32.460	-1.5214	-1.5214	-0.04479	-8.5520	mg/
Se	196.090	8.6800	0.00000	9.1200	-0.44000	-0.44000	-0.00966	-1.8453	mg/
		8.5800	0.00000	8.7400	-0.16000	-0.16000	0.01063	2.0298	mg/
		8.4200	0.00000	9.5600	-1.1400	-1.1400	-0.06040	-11.533	mg/
Mo	202.030	4.4000	4.3000	0.00000	0.10000	0.10000	0.00370	0.70643	mg/
		4.3000	4.4000	0.00000	-0.10000	-0.10000	-0.00074	-0.14129	mg/
		4.3000	4.6000	0.00000	-0.30000	-0.30000	-0.00518	-0.98901	mg/
Se	203.985	23.760	0.00000	22.960	0.80000	0.80000	0.01936	3.6971	mg/
		23.680	0.00000	23.300	0.38000	0.38000	-0.00968	-1.8486	mg/
		24.220	0.00000	22.860	1.3600	1.3600	0.05809	11.091	mg/
Cr	205.552	10.700	0.00000	2.8000	7.9000	7.9000	0.16930	32.327	mg/
		10.900	0.00000	3.0000	7.9000	7.9000	0.16930	32.327	mg/
		11.100	0.00000	3.0000	8.1000	8.1000	0.17362	33.152	mg/
Sb	206.833	28.980	0.00000	29.460	-0.48000	-0.48000	-0.01710	-3.2645	mg/
		28.360	0.00000	27.640	0.72000	0.72000	0.00214	0.40807	mg/
		27.800	0.00000	28.880	-1.0800	-1.0800	-0.02671	-5.1008	mg/
Zn	213.856	37.500	0.00000	1.8000	35.700	35.700	0.66115	126.25	mg/
		37.100	0.00000	1.7000	35.400	35.400	0.65550	125.17	mg/
		36.400	0.00000	1.6000	34.800	34.800	0.64421	123.01	mg/
Sb	217.581	24.320	0.00000	26.780	-2.4600	-2.4600	-0.04980	-9.5094	mg/
		24.860	0.00000	26.320	-1.4600	-1.4600	-0.03456	-6.5984	mg/
		23.940	0.00000	25.580	-1.6400	-1.6400	-0.03730	-7.1224	mg/
Pb	220.353	39.440	26.160	29.840	11.115	11.115	0.20119	38.417	mg/
		40.740	26.160	30.280	12.156	12.156	0.21951	41.915	mg/
		40.300	26.400	30.460	11.512	11.512	0.20816	39.749	mg/
Co	228.616	8.7000	0.00000	4.6000	4.1000	4.1000	0.04812	9.1880	mg/
		8.7000	0.00000	4.7000	4.0000	4.0000	0.04690	8.9564	mg/
		9.1000	0.00000	4.6000	4.5000	4.5000	0.05297	10.115	mg/
Cd	228.802	2.4000	0.00000	2.3000	0.10000	0.10000	0.00125	0.23867	mg/
		2.6000	0.00000	2.1000	0.50000	0.50000	0.00875	1.6707	mg/
		2.5000	0.00000	2.1000	0.40000	0.40000	0.00687	1.3127	mg/
Ni	231.604	14.600	0.00000	6.1000	8.5000	8.5000	0.12871	24.578	mg/
		15.200	0.00000	6.0000	9.2000	9.2000	0.13927	26.594	mg/
		15.100	0.00000	6.0000	9.1000	9.1000	0.13776	26.306	mg/
Be	234.861	15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1476	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1476	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1476	mg/
B	249.678	93.400	0.00000	13.100	80.300	80.300	0.15909	30.379	mg/
		88.300	0.00000	12.200	76.100	76.100	0.15001	28.644	mg/
		92.800	0.00000	13.400	79.400	79.400	0.15715	30.007	mg/
Mn	257.610	918.00	0.00000	13.000	905.00	905.00	0.97602	186.37	mg/
		873.00	0.00000	13.000	860.00	860.00	0.92742	177.09	mg/
		890.00	0.00000	12.000	878.00	878.00	0.94686	180.80	mg/
Fe	259.940	11928	0.00000	13.000	11915	11915	138.55	26456	mg/
		12132	0.00000	14.000	12118	12118	140.91	26906	mg/
		11549	0.00000	13.000	11536	11536	134.14	25614	mg/
Fe	271.441	253.20	2.3000	0.00000	250.90	250.90	145.86	27852	mg/
		250.60	2.3000	0.00000	248.30	248.30	144.35	27563	mg/
		256.80	2.3000	0.00000	254.50	254.50	147.95	28251	mg/
Mg	279.553	23514	0.00000	16.000	23498	23498	21.736	4150.5	mg/
		24433	0.00000	17.000	24416	24416	22.585	4312.7	mg/
		24236	0.00000	16.000	24220	24220	22.404	4278.0	mg/
V	292.402	45.200	11.200	0.00000	34.000	34.000	0.22193	42.377	mg/
		42.300	10.800	0.00000	31.500	31.500	0.20585	39.306	mg/
		46.800	11.600	0.00000	35.200	35.200	0.22965	43.851	mg/

		368.90	2.9000	0.00000	366.00	366.00	106.94	20421	mg/
Ca	315.887	1775.0	0.00000	47.400	1727.6	1727.6	26.714	5101.0	mg/
		1737.1	0.00000	47.100	1690.0	1690.0	26.134	4990.2	mg/
		1723.5	0.00000	46.900	1676.6	1676.6	25.927	4950.7	mg/
Cu	324.754	390.00	0.00000	136.00	254.00	254.00	0.19071	36.417	mg/
		391.00	0.00000	137.00	254.00	254.00	0.19071	36.417	mg/
		393.00	0.00000	142.00	251.00	251.00	0.18839	35.973	mg/
Ag	328.068	180.60	0.00000	174.40	6.2000	6.2000	0.00098	0.18791	mg/
		174.30	0.00000	174.30	0.00000	0.00000	-0.00383	-0.73187	mg/
		186.10	0.00000	177.20	8.9000	8.9000	0.00308	0.58846	mg/
Ti	334.941	2522.0	0.00000	61.000	2461.0	2461.0	2.0109	383.97	mg/
		2502.0	0.00000	62.000	2440.0	2440.0	1.9937	380.69	mg/
		2634.0	0.00000	62.000	2572.0	2572.0	2.1017	401.32	mg/
Y	371.030	1420.0	0.00000	440.00	980.00	980.00	0.07321	13.979	mg/
		1440.0	0.00000	440.00	1000.0	1000.0	0.07469	14.261	mg/
		1430.0	0.00000	440.00	990.00	990.00	0.07395	14.120	mg/
Mg	383.826	7391.0	323.00	0.00000	7068.0	7068.0	21.658	4135.7	mg/
		7370.0	329.00	0.00000	7041.0	7041.0	21.576	4119.9	mg/
		7146.0	329.00	0.00000	6817.0	6817.0	20.891	3989.1	mg/
Ca	393.366	369640	0.00000	330.00	369310	369310	25.335	4837.7	mg/
		378160	0.00000	330.00	377830	377830	25.920	4949.4	mg/
		385710	0.00000	340.00	385370	385370	26.438	5048.3	mg/
Al	396.152	14860	0.00000	115.00	14745	14745	97.687	18653	mg/
		15027	0.00000	114.00	14913	14913	98.801	18866	mg/
		15146	0.00000	116.00	15030	15030	99.576	19014	mg/
Sr	421.552	3270.0	210.00	0.00000	3060.0	3060.0	0.18100	34.562	mg/
		3190.0	210.00	0.00000	2980.0	2980.0	0.17625	33.654	mg/
		3140.0	210.00	0.00000	2930.0	2930.0	0.17328	33.087	mg/
Zn	481.053	114.60	0.00000	108.20	6.4000	6.4000	0.24021	45.868	mg/
		114.80	0.00000	108.30	6.5000	6.5000	0.24555	46.887	mg/
		111.60	0.00000	110.90	0.70000	0.70000	-0.06406	-12.231	mg/
Ba	493.409	24510	360.00	0.00000	24150	24150	1.3066	249.49	mg/
		24340	350.00	0.00000	23990	23990	1.2979	247.84	mg/
		23690	360.00	0.00000	23330	23330	1.2622	241.02	mg/
Na	588.995	283.00	111.00	0.00000	172.00	172.00	0.78253	149.42	mg/
		283.00	108.00	0.00000	175.00	175.00	0.79443	151.70	mg/
		287.00	113.00	0.00000	174.00	174.00	0.79046	150.94	mg/
Li	670.784	64.000	0.00000	15.700	48.300	48.300	0.08968	17.124	mg/
		65.500	0.00000	15.300	50.200	50.200	0.09327	17.809	mg/
		66.500	0.00000	15.500	51.000	51.000	0.09478	18.098	mg/
K	766.490	424.10	0.00000	29.200	394.90	394.90	11.303	2158.2	mg/
		414.70	0.00000	29.500	385.20	385.20	11.025	2105.1	mg/
		421.20	0.00000	28.100	393.10	393.10	11.251	2148.4	mg/
K	769.896	476.90	0.00000	48.800	428.10	428.10	11.455	2187.3	mg/
		477.70	0.00000	50.400	427.30	427.30	11.434	2183.2	mg/
		455.00	0.00000	47.500	407.50	407.50	10.903	2082.0	mg/

----- 14:01:18 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S11-990086- 26

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.12146	23.193 mg/L	10.856	47
Tl	190.864	0.54781	104.60 mg/L	9.3008	8.9
Tl	190.883	0.06042	11.537 mg/L	9.6832	84
As	193.759	-0.04089	-7.8074 mg/L	11.898	150
Se	196.090	-0.01981	-3.7828 mg/L	6.9859	190
Mo	202.030	-0.00074	-0.14129 mg/L	0.84772	600
Se	203.985	0.02259	4.3133 mg/L	6.4920	150
Cr	205.552	0.17074	32.602 mg/L	0.47653	1.5
Sb	206.833	-0.01389	-2.6524 mg/L	2.8050	110
Zn	213.856	0.65362	124.81 mg/L	1.6467	1.3

Co	228.616	0.04933	9.4197 mg/L	0.61284	6.5
Cd	228.802	0.00562	1.0740 mg/L	0.74525	69
Ni	231.604	0.13525	25.826 mg/L	1.0904	4.2
Be	234.861	0.00601	1.1476 mg/L	0.00000	0.00
B	249.678	0.15542	29.677 mg/L	0.91316	3.1
Mn	257.610	0.95010	181.42 mg/L	4.6712	2.6
Fe	259.940	137.87	26325 mg/L	655.92	2.5
Fe	271.441	146.05	27889 mg/L	345.66	1.2
Mg	279.553	22.242	4247.0 mg/L	85.413	2.0
V	292.402	0.21914	41.844 mg/L	2.3187	5.5
Al	308.215	109.85	20975 mg/L	752.98	3.6
Ca	315.887	26.258	5014.0 mg/L	77.921	1.5
Cu	324.754	0.18994	36.269 mg/L	0.25606	0.71
Ag	328.068	0.00008	0.01484 mg/L	0.67697	+o***
Ti	334.941	2.0354	388.66 mg/L	11.086	2.8
Y	371.030	0.07395	14.120 mg/L	0.14120	1.0
Mg	383.826	21.375	4081.5 mg/L	80.472	2.0
Ca	393.366	25.898	4945.2 mg/L	105.38	2.1
Al	396.152	98.688	18844 mg/L	181.26	0.96
Sr	421.552	0.17684	33.768 mg/L	0.74389	2.2
Zn	481.053	0.14057	26.841 mg/L	33.841	130
Ba	493.409	1.2889	246.11 mg/L	4.4898	1.8
Na	588.995	0.78914	150.69 mg/L	1.1567	0.77
Li	670.784	0.09258	17.677 mg/L	0.49997	2.8
K	766.490	11.193	2137.2 mg/L	28.247	1.3
K	769.896	11.264	2150.8 mg/L	59.651	2.8

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012686nm #Steps = 28.18

Measurements for 99IE19S11 D-990086- 27

Sn	189.989	13.200	0.00000	9.3000	3.9000	3.9000	0.15770	29.582	mg/
		12.900	0.00000	8.6000	4.3000	4.3000	0.16946	31.787	mg/
		11.500	0.00000	10.300	1.2000	1.2000	0.07836	14.699	mg/
Tl	190.864	32.360	16.200	0.00000	16.160	16.160	0.51183	96.009	mg/
		31.080	14.940	0.00000	16.140	16.140	0.51118	95.887	mg/
		31.960	16.700	0.00000	15.260	15.260	0.48256	90.520	mg/
Tl	190.883	15.260	16.940	0.00000	-1.6800	-1.6800	-0.07216	-13.535	mg/
		16.920	15.780	0.00000	1.1400	1.1400	0.11171	20.955	mg/
		16.140	14.140	0.00000	2.0000	2.0000	0.16778	31.473	mg/
As	193.759	49.420	58.340	35.040	-3.9271	-3.9271	-0.10239	-19.206	mg/
		51.980	59.280	31.620	-1.3729	-1.3729	-0.04123	-7.7339	mg/
		53.180	57.020	31.460	1.6371	1.6371	0.03084	5.7854	mg/
Se	196.090	8.1600	0.00000	8.0200	0.14000	0.14000	0.03237	6.0727	mg/
		8.6400	0.00000	9.2800	-0.64000	-0.64000	-0.02416	-4.5318	mg/
		8.5600	0.00000	8.9200	-0.36000	-0.36000	-0.00387	-0.72509	mg/
Mo	202.030	4.1000	3.7000	0.00000	0.40000	0.40000	0.01036	1.9431	mg/
		4.2000	4.5000	0.00000	-0.30000	-0.30000	-0.00518	-0.97157	mg/
		4.4000	4.3000	0.00000	0.10000	0.10000	0.00370	0.69398	mg/
Se	203.985	22.920	0.00000	24.100	-1.1800	-1.1800	-0.11755	-22.051	mg/
		24.460	0.00000	22.520	1.9400	1.9400	0.09819	18.419	mg/
		24.080	0.00000	23.820	0.26000	0.26000	-0.01798	-3.3725	mg/
Cr	205.552	10.400	0.00000	2.8000	7.6000	7.6000	0.16281	30.541	mg/
		11.100	0.00000	2.9000	8.2000	8.2000	0.17578	32.973	mg/
		10.400	0.00000	2.9000	7.5000	7.5000	0.16065	30.135	mg/
Sb	206.833	27.920	0.00000	28.060	-0.14000	-0.14000	-0.01165	-2.1847	mg/
		28.460	0.00000	27.380	1.0800	1.0800	0.00791	1.4832	mg/
		27.680	0.00000	26.220	1.4600	1.4600	0.01400	2.6257	mg/
Zn	213.856	35.300	0.00000	1.7000	33.600	33.600	0.62163	116.61	mg/
		35.600	0.00000	1.8000	33.800	33.800	0.62539	117.31	mg/
		36.000	0.00000	1.7000	34.300	34.300	0.63480	119.08	mg/
Sb	217.581	26.380	0.00000	25.900	0.48000	0.48000	-0.00498	-0.93417	mg/
		24.700	0.00000	25.100	-0.40000	-0.40000	-0.01840	-3.4507	mg/

		39.860	25.120	31.120	11.211	11.211	0.20286	38.054	mg/
		39.800	26.980	30.340	10.844	10.844	0.19641	36.842	mg/
Co	228.616	9.1000	0.00000	5.0000	4.1000	4.1000	0.04812	9.0260	mg/
		8.6000	0.00000	5.0000	3.6000	3.6000	0.04205	7.8883	mg/
		8.2000	0.00000	4.6000	3.6000	3.6000	0.04205	7.8883	mg/
Cd	228.802	2.3000	0.00000	2.1000	0.20000	0.20000	0.00312	0.58616	mg/
		2.3000	0.00000	2.1000	0.20000	0.20000	0.00312	0.58616	mg/
		2.4000	0.00000	2.3000	0.10000	0.10000	0.00125	0.23446	mg/
Ni	231.604	16.000	0.00000	6.3000	9.7000	9.7000	0.14681	27.540	mg/
		15.400	0.00000	6.3000	9.1000	9.1000	0.13776	25.842	mg/
		15.500	0.00000	6.4000	9.1000	9.1000	0.13776	25.842	mg/
Be	234.861	15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1274	mg/
		14.000	0.00000	9.0000	5.0000	5.0000	0.00501	0.93948	mg/
		15.000	0.00000	9.0000	6.0000	6.0000	0.00601	1.1274	mg/
B	249.678	102.80	0.00000	12.000	90.800	90.800	0.18180	34.103	mg/
		106.70	0.00000	11.400	95.300	95.300	0.19153	35.928	mg/
		105.50	0.00000	14.400	91.100	91.100	0.18245	34.224	mg/
Mn	257.610	897.00	0.00000	12.000	885.00	885.00	0.95442	179.03	mg/
		905.00	0.00000	13.000	892.00	892.00	0.96198	180.45	mg/
		891.00	0.00000	13.000	878.00	878.00	0.94686	177.61	mg/
Fe	259.940	11652	0.00000	13.000	11639	11639	135.34	25387	mg/
		11940	0.00000	12.000	11928	11928	138.70	26017	mg/
		11929	0.00000	13.000	11916	11916	138.56	25991	mg/
Fe	271.441	244.90	2.4000	0.00000	242.50	242.50	140.98	26445	mg/
		255.50	2.3000	0.00000	253.20	253.20	147.20	27612	mg/
		250.90	2.4000	0.00000	248.50	248.50	144.46	27099	mg/
Mg	279.553	24342	0.00000	16.000	24326	24326	22.502	4221.0	mg/
		24281	0.00000	16.000	24265	24265	22.446	4210.4	mg/
		24025	0.00000	16.000	24009	24009	22.209	4166.0	mg/
V	292.402	43.300	11.700	0.00000	31.600	31.600	0.20649	38.734	mg/
		42.900	10.900	0.00000	32.000	32.000	0.20906	39.216	mg/
		43.300	11.700	0.00000	31.600	31.600	0.20649	38.734	mg/
Al	308.215	347.10	2.7000	0.00000	344.40	344.40	100.63	18877	mg/
		359.70	3.0000	0.00000	356.70	356.70	104.23	19551	mg/
		352.70	2.9000	0.00000	349.80	349.80	102.21	19173	mg/
Ca	315.887	1728.5	0.00000	48.600	1679.9	1679.9	25.978	4873.0	mg/
		1750.0	0.00000	48.500	1701.5	1701.5	26.311	4935.5	mg/
		1756.7	0.00000	48.000	1708.7	1708.7	26.422	4956.3	mg/
Cu	324.754	409.00	0.00000	137.00	272.00	272.00	0.20465	38.389	mg/
		391.00	0.00000	136.00	255.00	255.00	0.19149	35.920	mg/
		400.00	0.00000	137.00	263.00	263.00	0.19768	37.082	mg/
Ag	328.068	181.90	0.00000	170.90	11.000	11.000	0.00471	0.88413	mg/
		181.40	0.00000	181.00	0.40000	0.40000	-0.00352	-0.66067	mg/
		176.00	0.00000	175.60	0.40000	0.40000	-0.00352	-0.66067	mg/
Ti	334.941	2461.0	0.00000	63.000	2398.0	2398.0	1.9593	367.53	mg/
		2546.0	0.00000	62.000	2484.0	2484.0	2.0297	380.73	mg/
		2503.0	0.00000	62.000	2441.0	2441.0	1.9945	374.13	mg/
Y	371.030	1470.0	0.00000	450.00	1020.0	1020.0	0.07616	14.287	mg/
		1440.0	0.00000	450.00	990.00	990.00	0.07395	13.871	mg/
		1450.0	0.00000	440.00	1010.0	1010.0	0.07543	14.148	mg/
Mg	383.826	7211.0	333.00	0.00000	6878.0	6878.0	21.077	3953.7	mg/
		7032.0	316.00	0.00000	6716.0	6716.0	20.582	3860.8	mg/
		7060.0	340.00	0.00000	6720.0	6720.0	20.594	3863.1	mg/
Ca	393.366	382400	0.00000	330.00	382070	382070	26.211	4916.8	mg/
		383030	0.00000	340.00	382690	382690	26.254	4924.8	mg/
		398640	0.00000	340.00	398300	398300	27.326	5125.9	mg/
Al	396.152	15371	0.00000	114.00	15257	15257	101.08	18961	mg/
		14548	0.00000	116.00	14432	14432	95.613	17935	mg/
		14315	0.00000	112.00	14203	14203	94.096	17651	mg/
Sr	421.552	3200.0	210.00	0.00000	2990.0	2990.0	0.17684	33.172	mg/
		3130.0	220.00	0.00000	2910.0	2910.0	0.17209	32.281	mg/
		3250.0	220.00	0.00000	3030.0	3030.0	0.17922	33.618	mg/
Zn	481.053	114.70	0.00000	105.80	8.9000	8.9000	0.37366	70.091	mg/
		112.90	0.00000	105.90	7.0000	7.0000	0.27224	51.067	mg/

		25500	360.00	0.00000	25140	25140	1.3601	255.14	mg/
		23800	360.00	0.00000	23440	23440	1.2682	237.89	mg/
Na	588.995	279.00	105.00	0.00000	174.00	174.00	0.79046	148.28	mg/
		272.00	104.00	0.00000	168.00	168.00	0.76667	143.81	mg/
		278.00	110.00	0.00000	168.00	168.00	0.76667	143.81	mg/
Li	670.784	58.700	0.00000	16.300	42.400	42.400	0.07854	14.733	mg/
		65.700	0.00000	15.500	50.200	50.200	0.09327	17.495	mg/
		62.600	0.00000	15.500	47.100	47.100	0.08741	16.397	mg/
K	766.490	405.80	0.00000	30.400	375.40	375.40	10.744	2015.3	mg/
		413.30	0.00000	28.600	384.70	384.70	11.010	2065.3	mg/
		403.10	0.00000	27.700	375.40	375.40	10.744	2015.3	mg/
K	769.896	461.40	0.00000	47.700	413.70	413.70	11.069	2076.4	mg/
		451.60	0.00000	49.900	401.70	401.70	10.748	2016.2	mg/
		471.20	0.00000	47.200	424.00	424.00	11.345	2128.2	mg/

----- 14:09:13 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S11 D-990086- 27

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.13517	25.356 mg/L	9.2949	37
Tl	190.864	0.50185	94.139 mg/L	3.1349	3.3
Tl	190.883	0.06911	12.964 mg/L	23.544	180
As	193.759	-0.03759	-7.0516 mg/L	12.510	180
Se	196.090	0.00145	0.27191 mg/L	5.3721	+o***
Mo	202.030	0.00296	0.55518 mg/L	1.4623	260
Se	203.985	-0.01245	-2.3348 mg/L	20.255	870
Cr	205.552	0.16641	31.216 mg/L	1.5348	4.9
Sb	206.833	0.00342	0.64140 mg/L	2.5133	390
Zn	213.856	0.62727	117.67 mg/L	1.2727	1.1
Sb	217.581	-0.01687	-3.1647 mg/L	2.1022	66
Pb	220.353	0.20476	38.410 mg/L	1.7727	4.6
Co	228.616	0.04407	8.2675 mg/L	0.65687	7.9
Cd	228.802	0.00250	0.46893 mg/L	0.20305	43
Ni	231.604	0.14078	26.408 mg/L	0.98014	3.7
Be	234.861	0.00568	1.0647 mg/L	0.10848	10
B	249.678	0.18526	34.752 mg/L	1.0206	2.9
Mn	257.610	0.95442	179.03 mg/L	1.4182	0.79
Fe	259.940	137.53	25799 mg/L	356.64	1.4
Fe	271.441	144.21	27052 mg/L	584.93	2.2
Mg	279.553	22.386	4199.1 mg/L	29.192	0.70
V	292.402	0.20735	38.894 mg/L	0.27866	0.72
Al	308.215	102.36	19200 mg/L	337.89	1.8
Ca	315.887	26.237	4921.6 mg/L	43.393	0.88
Cu	324.754	0.19794	37.130 mg/L	1.2351	3.3
Ag	328.068	-0.00078	-0.14574 mg/L	0.89189	610
Ti	334.941	1.9945	374.13 mg/L	6.6023	1.8
Y	371.030	0.07518	14.102 mg/L	0.21188	1.5
Mg	383.826	20.751	3892.5 mg/L	53.013	1.4
Ca	393.366	26.597	4989.2 mg/L	118.49	2.4
Al	396.152	96.930	18182 mg/L	689.06	3.8
Sr	421.552	0.17605	33.024 mg/L	0.68092	2.1
Zn	481.053	0.34875	65.419 mg/L	12.679	19
Ba	493.409	1.2878	241.57 mg/L	12.147	5.0
Na	588.995	0.77460	145.30 mg/L	2.5768	1.8
Li	670.784	0.08641	16.209 mg/L	1.3909	8.6
K	766.490	10.832	2032.0 mg/L	28.876	1.4
K	769.896	11.054	2073.6 mg/L	56.045	2.7

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012611nm #Steps = 28.02

Sn	189.989	13.200	0.00000	7.9000	5.3000	5.3000	0.19884	39.274	mg/
		12.700	0.00000	10.800	1.9000	1.9000	0.09893	19.540	mg/
		13.300	0.00000	10.300	3.0000	3.0000	0.13126	25.925	mg/
Tl	190.864	37.940	17.360	0.00000	20.580	20.580	0.65555	129.48	mg/
		39.540	16.860	0.00000	22.680	22.680	0.72384	142.97	mg/
		38.780	15.440	0.00000	23.340	23.340	0.74530	147.21	mg/
Tl	190.883	19.420	15.500	0.00000	3.9200	3.9200	0.29297	57.864	mg/
		18.800	16.280	0.00000	2.5200	2.5200	0.20169	39.835	mg/
		19.460	15.760	0.00000	3.7000	3.7000	0.27862	55.031	mg/
As	193.759	56.540	56.740	34.540	4.5571	4.5571	0.10076	19.901	mg/
		56.820	57.040	31.580	5.2357	5.2357	0.11701	23.110	mg/
		58.020	55.200	32.860	7.6071	7.6071	0.17379	34.325	mg/
Se	196.090	12.120	0.00000	8.7600	3.3600	3.3600	0.26575	52.489	mg/
		10.640	0.00000	9.0800	1.5600	1.5600	0.13529	26.722	mg/
		10.760	0.00000	8.6800	2.0800	2.0800	0.17298	34.166	mg/
Mo	202.030	3.9000	4.5000	0.00000	-0.60000	-0.60000	-0.01184	-2.3383	mg/
		4.4000	3.9000	0.00000	0.50000	0.50000	0.01258	2.4844	mg/
		4.3000	4.0000	0.00000	0.30000	0.30000	0.00814	1.6076	mg/
Se	203.985	29.620	0.00000	22.920	6.7000	6.7000	0.42735	84.406	mg/
		29.520	0.00000	22.620	6.9000	6.9000	0.44118	87.137	mg/
		29.060	0.00000	23.440	5.6200	5.6200	0.35266	69.655	mg/
Cr	205.552	34.400	0.00000	3.2000	31.200	31.200	0.67286	132.90	mg/
		33.600	0.00000	3.1000	30.500	30.500	0.65773	129.91	mg/
		34.100	0.00000	3.1000	31.000	31.000	0.66854	132.04	mg/
Sb	206.833	34.600	0.00000	27.640	6.9600	6.9600	0.10215	20.176	mg/
		32.720	0.00000	29.180	3.5400	3.5400	0.04734	9.3493	mg/
		32.640	0.00000	26.820	5.8200	5.8200	0.08388	16.567	mg/
Zn	213.856	91.300	0.00000	1.6000	89.700	89.700	1.6773	331.29	mg/
		89.400	0.00000	1.6000	87.800	87.800	1.6416	324.23	mg/
		88.000	0.00000	1.6000	86.400	86.400	1.6152	319.03	mg/
Sb	217.581	30.520	0.00000	26.200	4.3200	4.3200	0.05356	10.579	mg/
		30.260	0.00000	26.520	3.7400	3.7400	0.04472	8.8325	mg/
		30.780	0.00000	26.100	4.6800	4.6800	0.05905	11.663	mg/
Pb	220.353	96.840	25.980	27.960	69.695	69.695	1.2321	243.35	mg/
		100.34	25.300	31.000	71.687	71.687	1.2671	250.27	mg/
		98.360	27.440	31.480	68.544	68.544	1.2118	239.34	mg/
Co	228.616	51.900	0.00000	4.4000	47.500	47.500	0.57458	113.49	mg/
		51.000	0.00000	4.4000	46.600	46.600	0.56367	111.33	mg/
		52.000	0.00000	4.9000	47.100	47.100	0.56973	112.53	mg/
Cd	228.802	8.2000	0.00000	2.3000	5.9000	5.9000	0.10999	21.725	mg/
		8.0000	0.00000	2.2000	5.8000	5.8000	0.10812	21.355	mg/
		8.4000	0.00000	2.0000	6.4000	6.4000	0.11937	23.576	mg/
Ni	231.604	50.700	0.00000	6.2000	44.500	44.500	0.67173	132.67	mg/
		51.500	0.00000	5.8000	45.700	45.700	0.68983	136.25	mg/
		49.500	0.00000	6.0000	43.500	43.500	0.65664	129.69	mg/
Be	234.861	70.000	0.00000	9.0000	61.000	61.000	0.06110	12.068	mg/
		68.000	0.00000	8.0000	60.000	60.000	0.06010	11.870	mg/
		70.000	0.00000	8.0000	62.000	62.000	0.06210	12.266	mg/
B	249.678	540.20	0.00000	13.500	526.70	526.70	1.1245	222.10	mg/
		525.90	0.00000	12.600	513.30	513.30	1.0955	216.37	mg/
		541.20	0.00000	12.500	528.70	528.70	1.1288	222.95	mg/
Mn	257.610	2793.0	0.00000	14.000	2779.0	2779.0	3.0001	592.55	mg/
		2811.0	0.00000	14.000	2797.0	2797.0	3.0195	596.39	mg/
		2888.0	0.00000	13.000	2875.0	2875.0	3.1038	613.03	mg/
Fe	259.940	11628	0.00000	13.000	11615	11615	135.06	26676	mg/
		11382	0.00000	13.000	11369	11369	132.20	26111	mg/
		11552	0.00000	13.000	11539	11539	134.18	26501	mg/
Fe	271.441	246.30	2.2000	0.00000	244.10	244.10	141.91	28028	mg/
		238.80	2.2000	0.00000	236.60	236.60	137.55	27167	mg/
		239.30	2.3000	0.00000	237.00	237.00	137.78	27213	mg/
Mg	279.553	22686	0.00000	16.000	22670	22670	20.970	4141.8	mg/
		23061	0.00000	16.000	23045	23045	21.317	4210.3	mg/
		22395	0.00000	16.000	22379	22379	20.701	4088.6	mg/
V	292.402	125.00	10.900	0.00000	114.10	114.10	0.73718	145.60	mg/

Al	308.215	345.00	2.8000	0.00000	342.20	342.20	99.990	19749	mg/
		329.20	2.4000	0.00000	326.80	326.80	95.491	18861	mg/
		332.80	3.1000	0.00000	329.70	329.70	96.338	19028	mg/
Ca	315.887	1714.2	0.00000	47.700	1666.5	1666.5	25.771	5090.0	mg/
		1714.8	0.00000	47.600	1667.2	1667.2	25.782	5092.2	mg/
		1722.9	0.00000	47.100	1675.8	1675.8	25.914	5118.4	mg/
Cu	324.754	976.00	0.00000	133.00	843.00	843.00	0.64673	127.74	mg/
		998.00	0.00000	135.00	863.00	863.00	0.66221	130.79	mg/
		977.00	0.00000	136.00	841.00	841.00	0.64518	127.43	mg/
Ag	328.068	309.50	0.00000	180.80	128.70	128.70	0.09616	18.992	mg/
		321.20	0.00000	182.40	138.80	138.80	0.10400	20.542	mg/
		307.80	0.00000	183.20	124.60	124.60	0.09297	18.363	mg/
Ti	334.941	2504.0	0.00000	61.000	2443.0	2443.0	1.9961	394.26	mg/
		2515.0	0.00000	63.000	2452.0	2452.0	2.0035	395.71	mg/
		2532.0	0.00000	62.000	2470.0	2470.0	2.0182	398.62	mg/
Y	371.030	8120.0	0.00000	450.00	7670.0	7670.0	0.56791	112.17	mg/
		8480.0	0.00000	440.00	8040.0	8040.0	0.59527	117.57	mg/
		7860.0	0.00000	450.00	7410.0	7410.0	0.54868	108.37	mg/
Mg	383.826	6854.0	330.00	0.00000	6524.0	6524.0	19.994	3949.1	mg/
		6745.0	333.00	0.00000	6412.0	6412.0	19.652	3881.5	mg/
		6966.0	326.00	0.00000	6640.0	6640.0	20.349	4019.2	mg/
Ca	393.366	360510	0.00000	320.00	360190	360190	24.709	4880.2	mg/
		358370	0.00000	310.00	358060	358060	24.562	4851.3	mg/
		368390	0.00000	320.00	368070	368070	25.250	4987.1	mg/
Al	396.152	14314	0.00000	114.00	14200	14200	94.076	18581	mg/
		13931	0.00000	116.00	13815	13815	91.525	18077	mg/
		14420	0.00000	111.00	14309	14309	94.798	18724	mg/
Sr	421.552	19550	280.00	0.00000	19270	19270	1.1440	225.96	mg/
		18840	290.00	0.00000	18550	18550	1.1012	217.51	mg/
		20190	280.00	0.00000	19910	19910	1.1820	233.47	mg/
Zn	481.053	134.10	0.00000	101.90	32.200	32.200	1.6174	319.46	mg/
		130.70	0.00000	104.90	25.800	25.800	1.2758	251.98	mg/
		129.00	0.00000	109.10	19.900	19.900	0.96083	189.78	mg/
Ba	493.409	31230	350.00	0.00000	30880	30880	1.6706	329.97	mg/
		31980	360.00	0.00000	31620	31620	1.7107	337.88	mg/
		30540	360.00	0.00000	30180	30180	1.6328	322.49	mg/
Na	588.995	269.00	112.00	0.00000	157.00	157.00	0.72305	142.81	mg/
		268.00	103.00	0.00000	165.00	165.00	0.75477	149.08	mg/
		264.00	107.00	0.00000	157.00	157.00	0.72305	142.81	mg/
Li	670.784	314.80	0.00000	16.500	298.30	298.30	0.56168	110.94	mg/
		328.70	0.00000	16.400	312.30	312.30	0.58811	116.16	mg/
		328.70	0.00000	16.300	312.40	312.40	0.58830	116.20	mg/
K	766.490	397.50	0.00000	32.000	365.50	365.50	10.460	2065.9	mg/
		411.20	0.00000	27.800	383.40	383.40	10.973	2167.3	mg/
		414.30	0.00000	28.200	386.10	386.10	11.050	2182.6	mg/
K	769.896	461.50	0.00000	50.900	410.60	410.60	10.986	2170.0	mg/
		455.10	0.00000	48.200	406.90	406.90	10.887	2150.4	mg/
		448.10	0.00000	47.700	400.40	400.40	10.713	2116.0	mg/

----- 14:17:13 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S11 S-990086- 28

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.14301	28.246 mg/L	10.070	36
Tl	190.864	0.70823	139.88 mg/L	9.2565	6.6
Tl	190.883	0.25776	50.910 mg/L	9.6952	19
As	193.759	0.13052	25.779 mg/L	7.5733	29
Se	196.090	0.19134	37.792 mg/L	13.261	35
Mo	202.030	0.00296	0.58457 mg/L	2.5689	440
Se	203.985	0.40706	80.399 mg/L	9.4045	12
Cr	205.552	0.66638	131.62 mg/L	1.5391	1.2

Sb	217.581	0.05244	10.358	mg/L	1.4281	14
Pb	220.353	1.2370	244.32	mg/L	5.5277	2.3
Co	228.616	0.56933	112.45	mg/L	1.0804	0.96
Cd	228.802	0.11249	22.219	mg/L	1.1904	5.4
Ni	231.604	0.67273	132.87	mg/L	3.2816	2.5
Be	234.861	0.06110	12.068	mg/L	0.19784	1.6
B	249.678	1.1162	220.47	mg/L	3.5767	1.6
Mn	257.610	3.0411	600.65	mg/L	10.886	1.8
Fe	259.940	133.81	26429	mg/L	289.29	1.1
Fe	271.441	139.08	27469	mg/L	484.55	1.8
Mg	279.553	20.996	4146.9	mg/L	61.014	1.5
V	292.402	0.73011	144.20	mg/L	3.3398	2.3
Al	308.215	97.273	19213	mg/L	472.25	2.5
Ca	315.887	25.822	5100.2	mg/L	15.788	0.31
Cu	324.754	0.65137	128.65	mg/L	1.8603	1.4
Ag	328.068	0.09771	19.299	mg/L	1.1214	5.8
Ti	334.941	2.0059	396.20	mg/L	2.2226	0.56
Y	371.030	0.57062	112.70	mg/L	4.6240	4.1
Mg	383.826	19.999	3949.9	mg/L	68.873	1.7
Ca	393.366	24.840	4906.2	mg/L	71.533	1.5
Al	396.152	93.467	18461	mg/L	339.66	1.8
Sr	421.552	1.1424	225.65	mg/L	7.9837	3.5
Zn	481.053	1.2847	253.74	mg/L	64.858	26
Ba	493.409	1.6713	330.11	mg/L	7.6937	2.3
Na	588.995	0.73362	144.90	mg/L	3.6176	2.5
Li	670.784	0.57937	114.43	mg/L	3.0249	2.6
K	766.490	10.828	2138.6	mg/L	63.397	3.0
K	769.896	10.862	2145.5	mg/L	27.302	1.3

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012679nm #Steps = 28.17

Measurements for 99IE19S12-990086- 29

Sn	189.989	9.3000	0.00000	6.3000	3.0000	3.0000	0.13126	25.920	mg/
		7.5000	0.00000	7.5000	0.00000	0.00000	0.04310	8.5109	mg/
		10.200	0.00000	7.6000	2.6000	2.6000	0.11950	23.598	mg/
Tl	190.864	20.740	13.540	0.00000	7.2000	7.2000	0.22047	43.536	mg/
		20.200	12.480	0.00000	7.7200	7.7200	0.23738	46.876	mg/
		20.280	11.920	0.00000	8.3600	8.3600	0.25819	50.985	mg/
Tl	190.883	12.400	12.840	0.00000	-0.44000	-0.44000	0.00869	1.7167	mg/
		12.100	12.440	0.00000	-0.34000	-0.34000	0.01521	3.0042	mg/
		13.940	12.220	0.00000	1.7200	1.7200	0.14953	29.527	mg/
As	193.759	28.060	30.660	21.440	-0.62429	-0.62429	-0.02331	-4.6022	mg/
		27.960	31.680	20.900	-1.4100	-1.4100	-0.04212	-8.3173	mg/
		29.420	30.480	21.660	0.83000	0.83000	0.01152	2.2741	mg/
Se	196.090	6.4600	0.00000	7.1800	-0.72000	-0.72000	-0.02996	-5.9158	mg/
		6.8000	0.00000	6.8400	-0.04000	-0.04000	0.01933	3.8166	mg/
		6.5400	0.00000	6.4600	0.08000	0.08000	0.02802	5.5341	mg/
Mo	202.030	3.2000	2.7000	0.00000	0.50000	0.50000	0.01258	2.4839	mg/
		3.5000	3.6000	0.00000	-0.10000	-0.10000	-0.00074	-0.14611	mg/
		3.2000	3.4000	0.00000	-0.20000	-0.20000	-0.00296	-0.58445	mg/
Se	203.985	17.980	0.00000	16.220	1.7600	1.7600	0.08575	16.932	mg/
		15.160	0.00000	17.240	-2.0800	-2.0800	-0.17979	-35.504	mg/
		17.060	0.00000	16.100	0.96000	0.96000	0.03043	6.0083	mg/
Cr	205.552	5.7000	0.00000	2.3000	3.4000	3.4000	0.07204	14.226	mg/
		5.5000	0.00000	2.5000	3.0000	3.0000	0.06340	12.519	mg/
		5.5000	0.00000	2.3000	3.2000	3.2000	0.06772	13.373	mg/
Sb	206.833	20.780	0.00000	20.480	0.30000	0.30000	-0.00459	-0.90732	mg/
		21.000	0.00000	20.080	0.92000	0.92000	0.00534	1.0550	mg/
		20.560	0.00000	20.340	0.22000	0.22000	-0.00588	-1.1605	mg/
Zn	213.856	18.600	0.00000	1.5000	17.100	17.100	0.31113	61.439	mg/
		18.800	0.00000	1.7000	17.100	17.100	0.31113	61.439	mg/
		18.900	0.00000	1.5000	17.400	17.400	0.31677	62.554	mg/

		20.220	0.00000	21.900	-1.6800	-1.6800	-0.03791	-7.4861	mg/
Pb	220.353	29.860	25.260	24.300	5.1647	5.1647	0.09647	19.050	mg/
		30.320	23.320	26.160	5.3294	5.3294	0.09937	19.623	mg/
		28.860	24.100	25.620	3.8659	3.8659	0.07361	14.537	mg/
Co	228.616	7.1000	0.00000	4.2000	2.9000	2.9000	0.03356	6.6274	mg/
		7.2000	0.00000	4.6000	2.6000	2.6000	0.02992	5.9088	mg/
		7.9000	0.00000	4.3000	3.6000	3.6000	0.04205	8.3042	mg/
Cd	228.802	2.3000	0.00000	1.9000	0.40000	0.40000	0.00687	1.3575	mg/
		2.3000	0.00000	2.0000	0.30000	0.30000	0.00500	0.98730	mg/
		2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	0.24683	mg/
Ni	231.604	10.300	0.00000	5.0000	5.3000	5.3000	0.08045	15.886	mg/
		11.600	0.00000	6.2000	5.4000	5.4000	0.08195	16.184	mg/
		11.300	0.00000	6.3000	5.0000	5.0000	0.07592	14.992	mg/
Be	234.861	11.000	0.00000	8.0000	3.0000	3.0000	0.00301	0.59341	mg/
		11.000	0.00000	8.0000	3.0000	3.0000	0.00301	0.59341	mg/
		11.000	0.00000	8.0000	3.0000	3.0000	0.00301	0.59341	mg/
B	249.678	75.000	0.00000	11.900	63.100	63.100	0.12190	24.071	mg/
		74.600	0.00000	11.400	63.200	63.200	0.12211	24.114	mg/
		70.200	0.00000	11.700	58.500	58.500	0.11195	22.107	mg/
Mn	257.610	508.00	0.00000	11.000	497.00	497.00	0.53535	105.72	mg/
		507.00	0.00000	11.000	496.00	496.00	0.53427	105.50	mg/
		495.00	0.00000	11.000	484.00	484.00	0.52131	102.94	mg/
Fe	259.940	5542.0	0.00000	5.8000	5536.2	5536.2	64.373	12712	mg/
		5753.9	0.00000	5.8000	5748.1	5748.1	66.837	13198	mg/
		5545.3	0.00000	5.8000	5539.5	5539.5	64.411	12719	mg/
Fe	271.441	118.20	2.2000	0.00000	116.00	116.00	67.426	13315	mg/
		118.20	2.1000	0.00000	116.10	116.10	67.484	13326	mg/
		114.80	2.2000	0.00000	112.60	112.60	65.449	12924	mg/
Mg	279.553	10664	0.00000	10.000	10654	10654	9.8526	1945.6	mg/
		10949	0.00000	10.000	10939	10939	10.116	1997.7	mg/
		10477	0.00000	10.000	10467	10467	9.6796	1911.4	mg/
V	292.402	23.400	8.5000	0.00000	14.900	14.900	0.09906	19.562	mg/
		22.700	8.4000	0.00000	14.300	14.300	0.09520	18.800	mg/
		23.300	8.2000	0.00000	15.100	15.100	0.10035	19.816	mg/
Al	308.215	141.60	3.1000	0.00000	138.50	138.50	40.475	7992.7	mg/
		143.30	2.3000	0.00000	141.00	141.00	41.206	8137.0	mg/
		138.80	2.7000	0.00000	136.10	136.10	39.774	7854.3	mg/
Ca	315.887	745.80	0.00000	45.800	700.00	700.00	10.854	2143.3	mg/
		681.30	0.00000	45.200	636.10	636.10	9.8676	1948.6	mg/
		735.00	0.00000	45.200	689.80	689.80	10.696	2112.2	mg/
Cu	324.754	183.00	0.00000	120.00	63.000	63.000	0.04284	8.4597	mg/
		183.00	0.00000	117.00	66.000	66.000	0.04516	8.9183	mg/
		188.00	0.00000	120.00	68.000	68.000	0.04671	9.2241	mg/
Ag	328.068	173.70	0.00000	172.70	1.0000	1.0000	-0.00306	-0.60345	mg/
		178.50	0.00000	164.00	14.500	14.500	0.00743	1.4677	mg/
		170.60	0.00000	166.60	4.0000	4.0000	-0.00073	-0.14319	mg/
Ti	334.941	1760.0	0.00000	58.000	1702.0	1702.0	1.3896	274.41	mg/
		1779.0	0.00000	59.000	1720.0	1720.0	1.4043	277.32	mg/
		1828.0	0.00000	58.000	1770.0	1770.0	1.4452	285.40	mg/
Y	371.030	1010.0	0.00000	430.00	580.00	580.00	0.04363	8.6154	mg/
		1000.0	0.00000	430.00	570.00	570.00	0.04289	8.4694	mg/
		1010.0	0.00000	430.00	580.00	580.00	0.04363	8.6154	mg/
Mg	383.826	3300.0	305.00	0.00000	2995.0	2995.0	9.2005	1816.8	mg/
		3244.0	319.00	0.00000	2925.0	2925.0	8.9864	1774.6	mg/
		3386.0	314.00	0.00000	3072.0	3072.0	9.4360	1863.3	mg/
Ca	393.366	152930	0.00000	200.00	152730	152730	10.460	2065.5	mg/
		156150	0.00000	200.00	155950	155950	10.681	2109.2	mg/
		148930	0.00000	200.00	148730	148730	10.185	2011.3	mg/
Al	396.152	5849.3	0.00000	81.300	5768.0	5768.0	38.204	7544.3	mg/
		5862.9	0.00000	84.700	5778.2	5778.2	38.272	7557.6	mg/
		5979.3	0.00000	84.300	5895.0	5895.0	39.046	7710.5	mg/
Sr	421.552	1390.0	190.00	0.00000	1200.0	1200.0	0.07050	13.922	mg/
		1380.0	190.00	0.00000	1190.0	1190.0	0.06991	13.804	mg/
		1370.0	200.00	0.00000	1170.0	1170.0	0.06872	13.570	mg/

		106.10	0.00000	106.40	-0.30000	-0.30000	-0.11744	-23.190	mg/
Ba	493.409	9790.0	340.00	0.00000	9450.0	9450.0	0.51138	100.98	mg/
		9990.0	350.00	0.00000	9640.0	9640.0	0.52166	103.01	mg/
		9860.0	340.00	0.00000	9520.0	9520.0	0.51516	101.73	mg/
Na	588.995	243.00	110.00	0.00000	133.00	133.00	0.62788	123.99	mg/
		246.00	111.00	0.00000	135.00	135.00	0.63581	125.55	mg/
		252.00	105.00	0.00000	147.00	147.00	0.68339	134.95	mg/
Li	670.784	34.500	0.00000	15.900	18.600	18.600	0.03361	6.6363	mg/
		33.100	0.00000	15.500	17.600	17.600	0.03172	6.2635	mg/
		33.200	0.00000	14.700	18.500	18.500	0.03342	6.5991	mg/
K	766.490	198.10	0.00000	29.800	168.30	168.30	4.8060	949.06	mg/
		196.00	0.00000	29.400	166.60	166.60	4.7573	939.44	mg/
		198.10	0.00000	27.700	170.40	170.40	4.8662	960.95	mg/
K	769.896	234.60	0.00000	49.300	185.30	185.30	4.9552	978.51	mg/
		234.60	0.00000	46.000	188.60	188.60	5.0435	995.95	mg/
		228.80	0.00000	50.300	178.50	178.50	4.7731	942.56	mg/

----- 14:25:09 7/ 7/99 ----- Method: JYSED5

Sample 99IE19S12-990086- 29

EL	Wave	Sol. Conc.	Sample Conc.	SD	RSD
Sn	189.989	0.09795	19.343 mg/L	9.4524	49
Tl	190.864	0.23868	47.132 mg/L	3.7310	7.9
Tl	190.883	0.05781	11.416 mg/L	15.698	140
As	193.759	-0.01797	-3.5485 mg/L	5.3737	150
Se	196.090	0.00580	1.1450 mg/L	6.1748	540
Mo	202.030	0.00296	0.58445 mg/L	1.6595	280
Se	203.985	-0.02121	-4.1876 mg/L	27.665	660
Cr	205.552	0.06772	13.373 mg/L	0.85357	6.4
Sb	206.833	-0.00171	-0.33761 mg/L	1.2127	360
Zn	213.856	0.31301	61.811 mg/L	0.64364	1.0
Sb	217.581	-0.01189	-2.3482 mg/L	4.4532	190
Pb	220.353	0.08982	17.737 mg/L	2.7858	16
Co	228.616	0.03518	6.9468 mg/L	1.2292	18
Cd	228.802	0.00437	0.86389 mg/L	0.56555	65
Ni	231.604	0.07944	15.687 mg/L	0.62005	3.9
Be	234.861	0.00301	0.59341 mg/L	0.00000	0.00
B	249.678	0.11865	23.431 mg/L	1.1467	4.9
Mn	257.610	0.53031	104.72 mg/L	1.5429	1.5
Fe	259.940	65.207	12877 mg/L	278.77	2.2
Fe	271.441	66.786	13188 mg/L	228.77	1.7
Mg	279.553	9.8828	1951.6 mg/L	43.427	2.2
V	292.402	0.09821	19.393 mg/L	0.52886	2.7
Al	308.215	40.485	7994.7 mg/L	141.36	1.8
Ca	315.887	10.473	2068.0 mg/L	104.63	5.1
Cu	324.754	0.04490	8.8674 mg/L	0.38475	4.3
Ag	328.068	0.00122	0.24036 mg/L	1.0875	450
Ti	334.941	1.4131	279.04 mg/L	5.6949	2.0
Y	371.030	0.04338	8.5667 mg/L	0.08431	0.98
Mg	383.826	9.2076	1818.2 mg/L	44.411	2.4
Ca	393.366	10.442	2062.0 mg/L	49.057	2.4
Al	396.152	38.507	7604.1 mg/L	92.331	1.2
Sr	421.552	0.06971	13.765 mg/L	0.17921	1.3
Zn	481.053	0.13345	26.352 mg/L	43.831	170
Ba	493.409	0.51607	101.91 mg/L	1.0265	1.0
Na	588.995	0.64902	128.16 mg/L	5.9294	4.6
Li	670.784	0.03291	6.4996 mg/L	0.20534	3.2
K	766.490	4.8099	949.82 mg/L	10.777	1.1
K	769.896	4.9239	972.34 mg/L	27.225	2.8

Sn	189.989	5.6000	0.00000	5.3000	0.30000	0.30000	0.05191	mg/
		6.1000	0.00000	7.1000	-1.0000	-1.0000	0.01371	mg/
		6.1000	0.00000	5.9000	0.20000	0.20000	0.04898	mg/
Tl	190.864	9.2400	11.440	0.00000	-2.2000	-2.2000	-0.08520	mg/
		10.380	10.160	0.00000	0.22000	0.22000	-0.00650	mg/
		10.980	10.600	0.00000	0.38000	0.38000	-0.00130	mg/
Tl	190.883	9.4400	10.160	0.00000	-0.72000	-0.72000	-0.00956	mg/
		10.500	11.000	0.00000	-0.50000	-0.50000	0.00478	mg/
		9.8000	10.940	0.00000	-1.1400	-1.1400	-0.03695	mg/
As	193.759	15.180	14.720	14.660	0.47286	0.47286	0.00296	mg/
		14.500	13.260	15.720	0.71286	0.71286	0.00871	mg/
		12.320	13.860	14.160	-1.6043	-1.6043	-0.04677	mg/
Se	196.090	5.1400	0.00000	5.1400	0.00000	0.00000	0.02223	mg/
		5.0000	0.00000	5.0200	-0.02000	-0.02000	0.02078	mg/
		4.7000	0.00000	5.5000	-0.80000	-0.80000	-0.03576	mg/
Mo	202.030	2.4000	2.3000	0.00000	0.10000	0.10000	0.00370	mg/
		2.2000	2.1000	0.00000	0.10000	0.10000	0.00370	mg/
		2.4000	2.6000	0.00000	-0.20000	-0.20000	-0.00296	mg/
Se	203.985	11.440	0.00000	12.660	-1.2200	-1.2200	-0.12032	mg/
		11.840	0.00000	11.960	-0.12000	-0.12000	-0.04426	mg/
		12.300	0.00000	12.660	-0.36000	-0.36000	-0.06085	mg/
Cr	205.552	1.8000	0.00000	1.7000	0.10000	0.10000	0.00072	mg/
		2.1000	0.00000	1.8000	0.30000	0.30000	0.00504	mg/
		1.9000	0.00000	2.1000	-0.20000	-0.20000	-0.00576	mg/
Sb	206.833	15.400	0.00000	14.080	1.3200	1.3200	0.01175	mg/
		15.240	0.00000	15.260	-0.02000	-0.02000	-0.00972	mg/
		15.600	0.00000	15.140	0.46000	0.46000	-0.00203	mg/
Zn	213.856	2.2000	0.00000	1.5000	0.70000	0.70000	0.00251	mg/
		2.1000	0.00000	1.6000	0.50000	0.50000	-0.00125	mg/
		2.0000	0.00000	1.3000	0.70000	0.70000	0.00251	mg/
Sb	217.581	19.860	0.00000	20.220	-0.36000	-0.36000	-0.01779	mg/
		18.960	0.00000	18.560	0.40000	0.40000	-0.00620	mg/
		18.800	0.00000	18.260	0.54000	0.54000	-0.00407	mg/
Pb	220.353	23.000	23.020	22.680	0.18000	0.18000	0.00875	mg/
		22.920	23.080	23.780	-0.57176	-0.57176	-0.00448	mg/
		23.940	23.180	23.080	0.81882	0.81882	0.01999	mg/
Co	228.616	4.2000	0.00000	4.9000	-0.70000	-0.70000	-0.01011	mg/
		4.1000	0.00000	3.5000	0.60000	0.60000	0.00566	mg/
		4.2000	0.00000	4.3000	-0.10000	-0.10000	-0.00283	mg/
Cd	228.802	2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00250	mg/
		2.1000	0.00000	1.9000	0.20000	0.20000	0.00312	mg/
		2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00250	mg/
Ni	231.604	6.3000	0.00000	5.9000	0.40000	0.40000	0.00654	mg/
		6.2000	0.00000	5.3000	0.90000	0.90000	0.01408	mg/
		6.5000	0.00000	5.9000	0.60000	0.60000	0.00955	mg/
Be	234.861	7.0000	0.00000	7.0000	0.00000	0.00000	0.00000	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	0.00000	mg/
		7.0000	0.00000	8.0000	-1.0000	-1.0000	-0.00100	mg/
B	249.678	18.700	0.00000	10.700	8.0000	8.0000	0.00274	mg/
		20.200	0.00000	10.700	9.5000	9.5000	0.00598	mg/
		19.900	0.00000	11.100	8.8000	8.8000	0.00447	mg/
Mn	257.610	9.0000	0.00000	10.000	-1.0000	-1.0000	-0.00252	mg/
		10.000	0.00000	10.000	0.00000	0.00000	-0.00144	mg/
		10.000	0.00000	10.000	0.00000	0.00000	-0.00144	mg/
Fe	259.940	2.8000	0.00000	2.9000	-0.10000	-0.10000	-0.00543	mg/
		3.0000	0.00000	3.3000	-0.30000	-0.30000	-0.00775	mg/
		3.2000	0.00000	3.2000	0.00000	0.00000	-0.00426	mg/
Fe	271.441	2.2000	2.1000	0.00000	0.10000	0.10000	0.03876	mg/
		2.3000	2.1000	0.00000	0.20000	0.20000	0.09690	mg/
		2.1000	2.1000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	6.0000	0.00000	7.0000	-1.0000	-1.0000	-0.00555	mg/
		7.0000	0.00000	6.0000	1.0000	1.0000	-0.00370	mg/

		7.2000	5.8000	0.00000	1.4000	1.4000	0.01222	mg/
		6.4000	6.0000	0.00000	0.40000	0.40000	0.00579	mg/
Al	308.215	1.6000	2.0000	0.00000	-0.40000	-0.40000	-0.10713	mg/
		2.0000	2.5000	0.00000	-0.50000	-0.50000	-0.13635	mg/
		1.8000	2.4000	0.00000	-0.60000	-0.60000	-0.16556	mg/
Ca	315.887	40.700	0.00000	44.500	-3.8000	-3.8000	-0.00875	mg/
		41.200	0.00000	44.500	-3.3000	-3.3000	-0.00103	mg/
		38.900	0.00000	44.500	-5.6000	-5.6000	-0.03653	mg/
Cu	324.754	132.00	0.00000	106.00	26.000	26.000	0.01419	mg/
		131.00	0.00000	101.00	30.000	30.000	0.01729	mg/
		132.00	0.00000	102.00	30.000	30.000	0.01729	mg/
Ag	328.068	182.00	0.00000	176.10	5.9000	5.9000	0.00075	mg/
		172.10	0.00000	171.60	0.50000	0.50000	-0.00344	mg/
		175.20	0.00000	176.00	-0.80000	-0.80000	-0.00445	mg/
Ti	334.941	56.000	0.00000	55.000	1.0000	1.0000	-0.00273	mg/
		57.000	0.00000	55.000	2.0000	2.0000	-0.00191	mg/
		56.000	0.00000	56.000	0.00000	0.00000	-0.00355	mg/
Y	371.030	430.00	0.00000	430.00	0.00000	0.00000	0.00074	mg/
		430.00	0.00000	430.00	0.00000	0.00000	0.00074	mg/
		430.00	0.00000	420.00	10.000	10.000	0.00148	mg/
Mg	383.826	302.00	327.00	0.00000	-25.000	-25.000	-0.03670	mg/
		302.00	320.00	0.00000	-18.000	-18.000	-0.01529	mg/
		304.00	318.00	0.00000	-14.000	-14.000	-0.00306	mg/
Ca	393.366	120.00	0.00000	120.00	0.00000	0.00000	-0.03022	mg/
		120.00	0.00000	120.00	0.00000	0.00000	-0.03022	mg/
		120.00	0.00000	120.00	0.00000	0.00000	-0.03022	mg/
Al	396.152	68.200	0.00000	72.600	-4.4000	-4.4000	-0.04462	mg/
		70.300	0.00000	71.000	-0.70000	-0.70000	-0.02010	mg/
		69.900	0.00000	70.000	-0.10000	-0.10000	-0.01612	mg/
Sr	421.552	200.00	200.00	0.00000	0.00000	0.00000	-0.00079	mg/
		190.00	190.00	0.00000	0.00000	0.00000	-0.00079	mg/
		190.00	190.00	0.00000	0.00000	0.00000	-0.00079	mg/
Zn	481.053	110.60	0.00000	105.20	5.4000	5.4000	0.18683	mg/
		108.00	0.00000	107.90	0.10000	0.10000	-0.09608	mg/
		109.10	0.00000	108.60	0.50000	0.50000	-0.07473	mg/
Ba	493.409	340.00	350.00	0.00000	-10.000	-10.000	-0.00036	mg/
		340.00	340.00	0.00000	0.00000	0.00000	0.00018	mg/
		330.00	340.00	0.00000	-10.000	-10.000	-0.00036	mg/
Na	588.995	74.000	108.00	0.00000	-34.000	-34.000	-0.03437	mg/
		75.000	111.00	0.00000	-36.000	-36.000	-0.04230	mg/
		75.000	111.00	0.00000	-36.000	-36.000	-0.04230	mg/
Li	670.784	15.600	0.00000	15.600	0.00000	0.00000	-0.00151	mg/
		15.800	0.00000	16.300	-0.50000	-0.50000	-0.00245	mg/
		15.900	0.00000	17.000	-1.1000	-1.1000	-0.00359	mg/
K	766.490	28.100	0.00000	29.400	-1.3000	-1.3000	-0.05638	mg/
		26.700	0.00000	28.200	-1.5000	-1.5000	-0.06212	mg/
		29.100	0.00000	27.800	1.3000	1.3000	0.01816	mg/
K	769.896	53.000	0.00000	48.500	4.5000	4.5000	0.11511	mg/
		50.200	0.00000	48.700	1.5000	1.5000	0.03480	mg/
		52.800	0.00000	48.100	4.7000	4.7000	0.12047	mg/

----- 14:33:03 7/ 7/99 ----- Method: JYSED5

Sample WASH- - 30

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.03820 mg/L	0.02126	56
Tl	190.864	-0.03100 mg/L	0.04701	150
Tl	190.883	-0.01391 mg/L	0.02120	150
As	193.759	-0.01170 mg/L	0.03051	260
Se	196.090	0.00242 mg/L	0.03307	+o***
Mo	202.030	0.00148 mg/L	0.00384	260

Sb	206.833	0.00000	mg/L	0.01088	+o***
Zn	213.856	0.00125	mg/L	0.00217	170
Sb	217.581	-0.00935	mg/L	0.00738	79
Pb	220.353	0.00809	mg/L	0.01225	150
Co	228.616	-0.00243	mg/L	0.00789	330
Cd	228.802	-0.00062	mg/L	0.00325	520
Ni	231.604	0.01006	mg/L	0.00380	38
Be	234.861	-0.00033	mg/L	0.00058	170
B	249.678	0.00440	mg/L	0.00162	37
Mn	257.610	-0.00180	mg/L	0.00062	35
Fe	259.940	-0.00581	mg/L	0.00178	31
Fe	271.441	0.03876	mg/L	0.05814	150
Mg	279.553	-0.00463	mg/L	0.00093	20
V	292.402	0.00879	mg/L	0.00324	37
Al	308.215	-0.13635	mg/L	0.02922	21
Ca	315.887	-0.01543	mg/L	0.01867	120
Cu	324.754	0.01626	mg/L	0.00179	11
Ag	328.068	-0.00238	mg/L	0.00276	120
Ti	334.941	-0.00273	mg/L	0.00082	30
Y	371.030	0.00099	mg/L	0.00043	43
Mg	383.826	-0.01835	mg/L	0.01703	93
Ca	393.366	-0.03022	mg/L	0.00000	0.00
Al	396.152	-0.02695	mg/L	0.01543	57
Sr	421.552	-0.00079	mg/L	0.00000	0.00
Zn	481.053	0.00534	mg/L	0.15754	+o***
Ba	493.409	-0.00018	mg/L	0.00031	170
Na	588.995	-0.03966	mg/L	0.00458	12
Li	670.784	-0.00252	mg/L	0.00104	41
K	766.490	-0.03345	mg/L	0.04478	130
K	769.896	0.09013	mg/L	0.04799	53

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012549nm #Steps = 27.88

Measurements for INSTR BLK 3- - 31

Sn	189.989	6.5000	0.00000	6.6000	-0.10000	-0.10000	0.04016	mg/
		6.4000	0.00000	6.4000	0.00000	0.00000	0.04310	mg/
		6.7000	0.00000	6.4000	0.30000	0.30000	0.05191	mg/
Tl	190.864	11.020	11.420	0.00000	-0.40000	-0.40000	-0.02666	mg/
		10.520	11.060	0.00000	-0.54000	-0.54000	-0.03122	mg/
		10.600	11.020	0.00000	-0.42000	-0.42000	-0.02731	mg/
Tl	190.883	10.240	10.780	0.00000	-0.54000	-0.54000	0.00217	mg/
		9.3600	9.8200	0.00000	-0.46000	-0.46000	0.00739	mg/
		11.160	10.440	0.00000	0.72000	0.72000	0.08433	mg/
As	193.759	14.380	12.900	13.220	1.4114	1.4114	0.02544	mg/
		13.420	13.880	15.440	-0.79429	-0.79429	-0.02738	mg/
		12.620	12.980	14.080	-0.59571	-0.59571	-0.02262	mg/
Se	196.090	5.1600	0.00000	5.3400	-0.18000	-0.18000	0.00918	mg/
		5.3800	0.00000	5.6000	-0.22000	-0.22000	0.00628	mg/
		5.0000	0.00000	5.7400	-0.74000	-0.74000	-0.03141	mg/
Mo	202.030	2.3000	2.5000	0.00000	-0.20000	-0.20000	-0.00296	mg/
		2.6000	2.5000	0.00000	0.10000	0.10000	0.00370	mg/
		2.4000	2.6000	0.00000	-0.20000	-0.20000	-0.00296	mg/
Se	203.985	12.120	0.00000	12.000	0.12000	0.12000	-0.02766	mg/
		12.300	0.00000	11.940	0.36000	0.36000	-0.01106	mg/
		12.660	0.00000	12.800	-0.14000	-0.14000	-0.04564	mg/
Cr	205.552	1.6000	0.00000	2.1000	-0.50000	-0.50000	-0.01225	mg/
		1.9000	0.00000	1.9000	0.00000	0.00000	-0.00144	mg/
		1.9000	0.00000	1.9000	0.00000	0.00000	-0.00144	mg/
Sb	206.833	15.960	0.00000	15.560	0.40000	0.40000	-0.00299	mg/
		15.840	0.00000	15.460	0.38000	0.38000	-0.00331	mg/
		14.640	0.00000	14.320	0.32000	0.32000	-0.00427	mg/
Zn	213.856	2.0000	0.00000	1.5000	0.50000	0.50000	-0.00125	mg/

Sb	217.581	20.340	0.00000	19.140	1.2000	1.2000	0.00600	mg/
		19.460	0.00000	18.800	0.66000	0.66000	-0.00224	mg/
		18.680	0.00000	19.400	-0.72000	-0.72000	-0.02327	mg/
Pb	220.353	22.940	22.860	23.720	-0.42588	-0.42588	-0.00191	mg/
		23.400	23.160	22.820	0.44000	0.44000	0.01333	mg/
		23.720	22.320	22.780	1.1294	1.1294	0.02546	mg/
Co	228.616	4.4000	0.00000	4.2000	0.20000	0.20000	0.00081	mg/
		4.3000	0.00000	4.3000	0.00000	0.00000	-0.00162	mg/
		3.9000	0.00000	4.0000	-0.10000	-0.10000	-0.00283	mg/
Cd	228.802	2.2000	0.00000	2.0000	0.20000	0.20000	0.00312	mg/
		2.0000	0.00000	2.1000	-0.10000	-0.10000	-0.00250	mg/
		2.1000	0.00000	2.0000	0.10000	0.10000	0.00125	mg/
Ni	231.604	6.1000	0.00000	5.7000	0.40000	0.40000	0.00654	mg/
		5.5000	0.00000	5.6000	-0.10000	-0.10000	-0.00101	mg/
		6.2000	0.00000	5.8000	0.40000	0.40000	0.00654	mg/
Be	234.861	8.0000	0.00000	7.0000	1.0000	1.0000	0.00100	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	0.00000	mg/
		7.0000	0.00000	7.0000	0.00000	0.00000	0.00000	mg/
B	249.678	13.700	0.00000	12.500	1.2000	1.2000	-0.01197	mg/
		14.200	0.00000	12.000	2.2000	2.2000	-0.00980	mg/
		15.000	0.00000	10.900	4.1000	4.1000	-0.00569	mg/
Mn	257.610	11.000	0.00000	11.000	0.00000	0.00000	-0.00144	mg/
		10.000	0.00000	10.000	0.00000	0.00000	-0.00144	mg/
		11.000	0.00000	10.000	1.0000	1.0000	-0.00036	mg/
Fe	259.940	3.8000	0.00000	3.1000	0.70000	0.70000	0.00388	mg/
		3.2000	0.00000	2.9000	0.30000	0.30000	-0.00078	mg/
		3.3000	0.00000	2.9000	0.40000	0.40000	0.00039	mg/
Fe	271.441	2.2000	2.0000	0.00000	0.20000	0.20000	0.09690	mg/
		2.1000	2.2000	0.00000	-0.10000	-0.10000	-0.07752	mg/
		2.2000	2.2000	0.00000	0.00000	0.00000	-0.01938	mg/
Mg	279.553	12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
		12.000	0.00000	6.0000	6.0000	6.0000	0.00093	mg/
		11.000	0.00000	6.0000	5.0000	5.0000	0.00000	mg/
V	292.402	6.5000	6.6000	0.00000	-0.10000	-0.10000	0.00257	mg/
		6.6000	5.8000	0.00000	0.80000	0.80000	0.00836	mg/
		6.1000	5.3000	0.00000	0.80000	0.80000	0.00836	mg/
Al	308.215	1.9000	2.5000	0.00000	-0.60000	-0.60000	-0.16556	mg/
		1.9000	3.1000	0.00000	-1.2000	-1.2000	-0.34086	mg/
		2.0000	2.6000	0.00000	-0.60000	-0.60000	-0.16556	mg/
Ca	315.887	41.300	0.00000	44.100	-2.8000	-2.8000	0.00669	mg/
		41.700	0.00000	45.100	-3.4000	-3.4000	-0.00257	mg/
		42.000	0.00000	43.800	-1.8000	-1.8000	0.02212	mg/
Cu	324.754	110.00	0.00000	104.00	6.0000	6.0000	-0.00129	mg/
		111.00	0.00000	97.000	14.000	14.000	0.00490	mg/
		114.00	0.00000	101.00	13.000	13.000	0.00413	mg/
Ag	328.068	172.00	0.00000	169.20	2.8000	2.8000	-0.00166	mg/
		168.80	0.00000	173.20	-4.4000	-4.4000	-0.00725	mg/
		177.00	0.00000	163.90	13.100	13.100	0.00634	mg/
Ti	334.941	57.000	0.00000	53.000	4.0000	4.0000	-0.00027	mg/
		57.000	0.00000	55.000	2.0000	2.0000	-0.00191	mg/
		58.000	0.00000	55.000	3.0000	3.0000	-0.00109	mg/
Y	371.030	420.00	0.00000	420.00	0.00000	0.00000	0.00074	mg/
		410.00	0.00000	420.00	-10.000	-10.000	0.00000	mg/
		410.00	0.00000	420.00	-10.000	-10.000	0.00000	mg/
Mg	383.826	302.00	306.00	0.00000	-4.0000	-4.0000	0.02753	mg/
		285.00	308.00	0.00000	-23.000	-23.000	-0.03059	mg/
		300.00	319.00	0.00000	-19.000	-19.000	-0.01835	mg/
Ca	393.366	630.00	0.00000	120.00	510.00	510.00	0.00481	mg/
		650.00	0.00000	110.00	540.00	540.00	0.00687	mg/
		630.00	0.00000	120.00	510.00	510.00	0.00481	mg/
Al	396.152	69.400	0.00000	66.600	2.8000	2.8000	0.00309	mg/
		70.400	0.00000	70.200	0.20000	0.20000	-0.01414	mg/
		70.300	0.00000	69.900	0.40000	0.40000	-0.01281	mg/
Sr	421.552	210.00	190.00	0.00000	20.000	20.000	0.00040	mg/

Zn	481.053	102.30	0.00000	104.40	-2.1000	-2.1000	-0.21352	mg/
		102.30	0.00000	105.10	-2.8000	-2.8000	-0.25088	mg/
		101.40	0.00000	103.80	-2.4000	-2.4000	-0.22953	mg/
Ba	493.409	340.00	330.00	0.00000	10.000	10.000	0.00072	mg/
		330.00	330.00	0.00000	0.00000	0.00000	0.00018	mg/
		360.00	340.00	0.00000	20.000	20.000	0.00126	mg/
Na	588.995	76.000	111.00	0.00000	-35.000	-35.000	-0.03833	mg/
		75.000	106.00	0.00000	-31.000	-31.000	-0.02247	mg/
		74.000	104.00	0.00000	-30.000	-30.000	-0.01851	mg/
Li	670.784	15.600	0.00000	14.500	1.1000	1.1000	0.00057	mg/
		15.700	0.00000	15.900	-0.20000	-0.20000	-0.00189	mg/
		16.000	0.00000	15.900	0.10000	0.10000	-0.00132	mg/
K	766.490	28.300	0.00000	28.300	0.00000	0.00000	-0.01911	mg/
		26.500	0.00000	27.200	-0.70000	-0.70000	-0.03918	mg/
		26.700	0.00000	27.400	-0.70000	-0.70000	-0.03918	mg/
K	769.896	50.500	0.00000	47.200	3.3000	3.3000	0.08299	mg/
		49.400	0.00000	45.900	3.5000	3.5000	0.08834	mg/
		46.200	0.00000	47.300	-1.1000	-1.1000	-0.03480	mg/

----- 14:41:00 7/ 7/99 ----- Method: JYSED5

Sample INSTR BLK 3- - 31

EL	Wave	Concentration	SD	RSD
Sn	189.989	0.04506 mg/L	0.00612	14
Tl	190.864	-0.02840 mg/L	0.00246	8.7
Tl	190.883	0.03130 mg/L	0.04600	150
As	193.759	-0.00819 mg/L	0.02922	360
Se	196.090	-0.00532 mg/L	0.02264	430
Mo	202.030	-0.00074 mg/L	0.00384	520
Se	203.985	-0.02812 mg/L	0.01729	61
Cr	205.552	-0.00504 mg/L	0.00624	120
Sb	206.833	-0.00353 mg/L	0.00067	19
Zn	213.856	-0.00063 mg/L	0.00109	170
Sb	217.581	-0.00650 mg/L	0.01510	230
Pb	220.353	0.01229 mg/L	0.01371	110
Co	228.616	-0.00121 mg/L	0.00185	150
Cd	228.802	0.00062 mg/L	0.00286	460
Ni	231.604	0.00402 mg/L	0.00435	110
Be	234.861	0.00033 mg/L	0.00058	170
B	249.678	-0.00915 mg/L	0.00319	35
Mn	257.610	-0.00108 mg/L	0.00062	58
Fe	259.940	0.00116 mg/L	0.00242	210
Fe	271.441	0.00000 mg/L	0.08881	+o***
Mg	279.553	0.00062 mg/L	0.00053	87
V	292.402	0.00643 mg/L	0.00334	52
Al	308.215	-0.22400 mg/L	0.10121	45
Ca	315.887	0.00875 mg/L	0.01248	140
Cu	324.754	0.00258 mg/L	0.00337	130
Ag	328.068	-0.00085 mg/L	0.00683	800
Ti	334.941	-0.00109 mg/L	0.00082	75
Y	371.030	0.00025 mg/L	0.00043	170
Mg	383.826	-0.00714 mg/L	0.03064	430
Ca	393.366	0.00549 mg/L	0.00119	22
Al	396.152	-0.00795 mg/L	0.00959	120
Sr	421.552	0.00020 mg/L	0.00034	170
Zn	481.053	-0.23131 mg/L	0.01875	8.1
Ba	493.409	0.00072 mg/L	0.00054	75
Na	588.995	-0.02644 mg/L	0.01049	40
Li	670.784	-0.00088 mg/L	0.00129	150
K	766.490	-0.03249 mg/L	0.01159	36
K	769.896	0.04551 mg/L	0.06960	150

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012582nm #Steps = 27.95

Measurements for SED5 AQC 3- - 32

Sn	189.989	206.00	0.00000	7.1000	198.90	198.90	5.8879	mg/
		185.70	0.00000	7.7000	178.00	178.00	5.2738	mg/
		188.80	0.00000	8.6000	180.20	180.20	5.3384	mg/
Tl	190.864	163.56	13.080	0.00000	150.48	150.48	4.8796	mg/
		166.46	11.680	0.00000	154.78	154.78	5.0194	mg/
		169.58	12.000	0.00000	157.58	157.58	5.1104	mg/
Tl	190.883	92.300	12.500	0.00000	79.800	79.800	5.2404	mg/
		88.220	11.640	0.00000	76.580	76.580	5.0304	mg/
		90.180	12.020	0.00000	78.160	78.160	5.1334	mg/
As	193.759	242.68	21.680	16.860	222.03	222.03	5.3080	mg/
		244.10	22.680	17.060	222.62	222.62	5.3221	mg/
		237.16	23.780	14.740	215.32	215.32	5.1472	mg/
Se	196.090	80.340	0.00000	5.6400	74.700	74.700	5.4363	mg/
		79.040	0.00000	6.0400	73.000	73.000	5.3131	mg/
		81.240	0.00000	5.7000	75.540	75.540	5.4972	mg/
Mo	202.030	239.70	3.1000	0.00000	236.60	236.60	5.2534	mg/
		249.90	3.0000	0.00000	246.90	246.90	5.4821	mg/
		246.50	3.0000	0.00000	243.50	243.50	5.4066	mg/
Se	203.985	135.04	0.00000	14.680	120.36	120.36	8.2869	mg/
		131.20	0.00000	14.560	116.64	116.64	8.0297	mg/
		132.10	0.00000	15.920	116.18	116.18	7.9979	mg/
Cr	205.552	250.10	0.00000	2.5000	247.60	247.60	5.3498	mg/
		246.90	0.00000	2.4000	244.50	244.50	5.2828	mg/
		259.90	0.00000	2.6000	257.30	257.30	5.5594	mg/
Sb	206.833	340.64	0.00000	16.220	324.42	324.42	5.1904	mg/
		337.48	0.00000	16.020	321.46	321.46	5.1429	mg/
		339.06	0.00000	16.560	322.50	322.50	5.1596	mg/
Zn	213.856	279.70	0.00000	1.7000	278.00	278.00	5.2208	mg/
		283.10	0.00000	1.7000	281.40	281.40	5.2848	mg/
		281.80	0.00000	1.7000	280.10	280.10	5.2603	mg/
Sb	217.581	352.42	0.00000	20.620	331.80	331.80	5.0460	mg/
		356.12	0.00000	20.020	336.10	336.10	5.1116	mg/
		360.20	0.00000	20.780	339.42	339.42	5.1622	mg/
Pb	220.353	329.08	23.640	26.540	303.73	303.73	5.3506	mg/
		332.52	24.220	26.840	306.76	306.76	5.4039	mg/
		322.28	24.300	27.100	296.33	296.33	5.2204	mg/
Co	228.616	449.90	0.00000	6.6000	443.30	443.30	5.3758	mg/
		449.40	0.00000	6.1000	443.30	443.30	5.3758	mg/
		457.30	0.00000	6.1000	451.20	451.20	5.4717	mg/
Cd	228.802	281.80	0.00000	2.6000	279.20	279.20	5.2340	mg/
		287.50	0.00000	2.7000	284.80	284.80	5.3390	mg/
		279.70	0.00000	2.6000	277.10	277.10	5.1947	mg/
Ni	231.604	360.30	0.00000	6.2000	354.10	354.10	5.3416	mg/
		357.30	0.00000	6.3000	351.00	351.00	5.2949	mg/
		351.60	0.00000	6.5000	345.10	345.10	5.2059	mg/
Be	234.861	5340.0	0.00000	9.0000	5331.0	5331.0	5.3399	mg/
		5367.0	0.00000	9.0000	5358.0	5358.0	5.3669	mg/
		5317.0	0.00000	9.0000	5308.0	5308.0	5.3169	mg/
B	249.678	2382.2	0.00000	12.400	2369.8	2369.8	5.1103	mg/
		2432.7	0.00000	12.000	2420.7	2420.7	5.2204	mg/
		2414.7	0.00000	11.900	2402.8	2402.8	5.1817	mg/
Mn	257.610	5083.0	0.00000	16.000	5067.0	5067.0	5.4713	mg/
		4999.0	0.00000	16.000	4983.0	4983.0	5.3805	mg/
		5135.0	0.00000	16.000	5119.0	5119.0	5.5274	mg/
Fe	259.940	444.60	0.00000	5.0000	439.60	439.60	5.1076	mg/
		446.70	0.00000	4.5000	442.20	442.20	5.1378	mg/
		449.70	0.00000	4.4000	445.30	445.30	5.1738	mg/
Fe	271.441	12.300	2.2000	0.00000	10.100	10.100	5.8530	mg/
		11.700	2.4000	0.00000	9.3000	9.3000	5.3879	mg/
		11.800	2.2000	0.00000	9.6000	9.6000	5.5623	mg/

		5663.0	0.00000	10.000	5653.0	5653.0	5.2256	mg/
V	292.402	823.40	9.8000	0.00000	813.60	813.60	5.2368	mg/
		850.40	9.6000	0.00000	840.80	840.80	5.4118	mg/
		829.00	9.0000	0.00000	820.00	820.00	5.2780	mg/
Al	308.215	20.800	2.4000	0.00000	18.400	18.400	5.3857	mg/
		20.200	2.3000	0.00000	17.900	17.900	5.2396	mg/
		19.800	2.7000	0.00000	17.100	17.100	5.0058	mg/
Ca	315.887	383.30	0.00000	47.000	336.30	336.30	5.2404	mg/
		374.70	0.00000	47.200	327.50	327.50	5.1046	mg/
		382.80	0.00000	45.900	336.90	336.90	5.2497	mg/
Cu	324.754	6175.0	0.00000	115.00	6060.0	6060.0	4.6858	mg/
		6338.0	0.00000	117.00	6221.0	6221.0	4.8104	mg/
		6522.0	0.00000	119.00	6403.0	6403.0	4.9513	mg/
Ag	328.068	814.50	0.00000	186.60	627.90	627.90	0.48400	mg/
		827.80	0.00000	182.30	645.50	645.50	0.49767	mg/
		822.20	0.00000	188.70	633.50	633.50	0.48835	mg/
Ti	334.941	6290.0	0.00000	73.000	6217.0	6217.0	5.0853	mg/
		6100.0	0.00000	74.000	6026.0	6026.0	4.9289	mg/
		6326.0	0.00000	71.000	6255.0	6255.0	5.1164	mg/
Y	371.030	69610	0.00000	480.00	69130	69130	5.1126	mg/
		68660	0.00000	500.00	68160	68160	5.0409	mg/
		66080	0.00000	490.00	65590	65590	4.8509	mg/
Mg	383.826	1895.0	313.00	0.00000	1582.0	1582.0	4.8786	mg/
		1965.0	312.00	0.00000	1653.0	1653.0	5.0957	mg/
		1947.0	322.00	0.00000	1625.0	1625.0	5.0101	mg/
Ca	393.366	73770	0.00000	150.00	73620	73620	5.0262	mg/
		72620	0.00000	160.00	72460	72460	4.9465	mg/
		71820	0.00000	160.00	71660	71660	4.8916	mg/
Al	396.152	846.80	0.00000	71.500	775.30	775.30	5.1218	mg/
		836.90	0.00000	74.200	762.70	762.70	5.0383	mg/
		842.30	0.00000	72.400	769.90	769.90	5.0860	mg/
Sr	421.552	82250	590.00	0.00000	81660	81660	4.8506	mg/
		82740	590.00	0.00000	82150	82150	4.8797	mg/
		81970	600.00	0.00000	81370	81370	4.8334	mg/
Zn	481.053	199.30	0.00000	104.60	94.700	94.700	4.9536	mg/
		196.20	0.00000	102.40	93.800	93.800	4.9056	mg/
		192.30	0.00000	107.10	85.200	85.200	4.4465	mg/
Ba	493.409	94380	390.00	0.00000	93990	93990	5.0846	mg/
		87520	400.00	0.00000	87120	87120	4.7129	mg/
		93470	410.00	0.00000	93060	93060	5.0343	mg/
Na	588.995	1296.0	112.00	0.00000	1184.0	1184.0	4.7956	mg/
		1321.0	118.00	0.00000	1203.0	1203.0	4.8710	mg/
		1336.0	118.00	0.00000	1218.0	1218.0	4.9305	mg/
Li	670.784	2594.8	0.00000	24.600	2570.2	2570.2	4.8510	mg/
		2510.8	0.00000	24.700	2486.1	2486.1	4.6923	mg/
		2650.7	0.00000	24.400	2626.3	2626.3	4.9569	mg/
K	766.490	193.70	0.00000	27.900	165.80	165.80	4.7344	mg/
		185.90	0.00000	27.800	158.10	158.10	4.5136	mg/
		185.30	0.00000	28.000	157.30	157.30	4.4907	mg/
K	769.896	226.50	0.00000	52.200	174.30	174.30	4.6607	mg/
		228.20	0.00000	46.300	181.90	181.90	4.8641	mg/
		219.10	0.00000	50.900	168.20	168.20	4.4974	mg/

----- 14:49:00 7/ 7/99 ----- Method: JYSED5

Sample SED5 AQC 3- - 32

EL	Wave	Concentration	SD	RSD
Sn	189.989	5.5000 mg/L	0.33748	6.1
Tl	190.864	5.0031 mg/L	0.11629	2.3
Tl	190.883	5.1347 mg/L	0.10498	2.0
As	193.759	5.2591 mg/L	0.09718	1.8

Se	203.985	8.1048 mg/L	0.15850	2.0
Cr	205.552	5.3973 mg/L	0.14432	2.7
Sb	206.833	5.1643 mg/L	0.02407	0.47
Zn	213.856	5.2553 mg/L	0.03228	0.61
Sb	217.581	5.1066 mg/L	0.05824	1.1
Pb	220.353	5.3250 mg/L	0.09439	1.8
Co	228.616	5.4078 mg/L	0.05533	1.0
Cd	228.802	5.2559 mg/L	0.07463	1.4
Ni	231.604	5.2808 mg/L	0.06896	1.3
Be	234.861	5.3412 mg/L	0.02507	0.47
B	249.678	5.1708 mg/L	0.05584	1.1
Mn	257.610	5.4597 mg/L	0.07412	1.4
Fe	259.940	5.1397 mg/L	0.03318	0.65
Fe	271.441	5.6010 mg/L	0.23498	4.2
Mg	279.553	5.3684 mg/L	0.12644	2.4
V	292.402	5.3089 mg/L	0.09148	1.7
Al	308.215	5.2104 mg/L	0.19159	3.7
Ca	315.887	5.1982 mg/L	0.08122	1.6
Cu	324.754	4.8159 mg/L	0.13286	2.8
Ag	328.068	0.49000 mg/L	0.00699	1.4
Ti	334.941	5.0435 mg/L	0.10045	2.0
Y	371.030	5.0015 mg/L	0.13527	2.7
Mg	383.826	4.9948 mg/L	0.10939	2.2
Ca	393.366	4.9548 mg/L	0.06769	1.4
Al	396.152	5.0820 mg/L	0.04189	0.82
Sr	421.552	4.8545 mg/L	0.02342	0.48
Zn	481.053	4.7686 mg/L	0.27994	5.9
Ba	493.409	4.9439 mg/L	0.20161	4.1
Na	588.995	4.8657 mg/L	0.06757	1.4
Li	670.784	4.8334 mg/L	0.13323	2.8
K	766.490	4.5795 mg/L	0.13457	2.9
K	769.896	4.6741 mg/L	0.18374	3.9

Ref. 193.031nm (calc: 193.034743nm) Offset = 0.012672nm #Steps = 28.15

Measurements for HIGH AQC 3- - 33

Sn	189.989	10.100	0.00000	9.3000	0.80000	0.80000	0.06661	mg/
		10.200	0.00000	9.1000	1.1000	1.1000	0.07542	mg/
		11.900	0.00000	8.9000	3.0000	3.0000	0.13126	mg/
Tl	190.864	27.740	16.420	0.00000	11.320	11.320	0.35444	mg/
		26.400	14.580	0.00000	11.820	11.820	0.37070	mg/
		28.440	14.680	0.00000	13.760	13.760	0.43378	mg/
Tl	190.883	15.580	16.140	0.00000	-0.56000	-0.56000	0.00087	mg/
		16.540	16.440	0.00000	0.10000	0.10000	0.04390	mg/
		16.660	16.260	0.00000	0.40000	0.40000	0.06346	mg/
As	193.759	50.500	56.540	32.440	-0.87572	-0.87572	-0.02933	mg/
		50.440	57.660	33.720	-2.0900	-2.0900	-0.05840	mg/
		48.020	58.720	34.940	-5.6043	-5.6043	-0.14255	mg/
Se	196.090	8.5800	0.00000	9.0200	-0.44000	-0.44000	-0.00966	mg/
		8.5800	0.00000	9.1800	-0.60000	-0.60000	-0.02126	mg/
		9.1400	0.00000	9.6200	-0.48000	-0.48000	-0.01256	mg/
Mo	202.030	4.6000	4.0000	0.00000	0.60000	0.60000	0.01480	mg/
		4.8000	4.6000	0.00000	0.20000	0.20000	0.00592	mg/
		4.6000	4.4000	0.00000	0.20000	0.20000	0.00592	mg/
Se	203.985	22.260	0.00000	23.880	-1.6200	-1.6200	-0.14798	mg/
		22.520	0.00000	22.880	-0.36000	-0.36000	-0.06085	mg/
		22.440	0.00000	23.800	-1.3600	-1.3600	-0.13000	mg/
Cr	205.552	3.2000	0.00000	3.2000	0.00000	0.00000	-0.00144	mg/
		3.2000	0.00000	3.3000	-0.10000	-0.10000	-0.00360	mg/
		3.3000	0.00000	3.2000	0.10000	0.10000	0.00072	mg/
Sb	206.833	31.160	0.00000	35.100	-3.9400	-3.9400	-0.07255	mg/
		31.200	0.00000	32.900	-1.7000	-1.7000	-0.03665	mg/

		5104.2	0.00000	4.0000	5100.2	5100.2	95.966	mg/
		5091.6	0.00000	3.9000	5087.7	5087.7	95.731	mg/
Sb	217.581	26.400	0.00000	25.500	0.90000	0.90000	0.00142	mg/
		25.040	0.00000	24.680	0.36000	0.36000	-0.00681	mg/
		25.540	0.00000	25.560	-0.02000	-0.02000	-0.01260	mg/
Pb	220.353	30.640	28.540	30.960	0.67647	0.67647	0.01749	mg/
		29.340	26.000	30.500	0.69294	0.69294	0.01778	mg/
		28.860	26.400	32.520	-1.1400	-1.1400	-0.01448	mg/
Co	228.616	4.3000	0.00000	4.4000	-0.10000	-0.10000	-0.00283	mg/
		4.6000	0.00000	4.8000	-0.20000	-0.20000	-0.00404	mg/
		4.3000	0.00000	4.3000	0.00000	0.00000	-0.00162	mg/
Cd	228.802	2.1000	0.00000	2.1000	0.00000	0.00000	-0.00062	mg/
		2.4000	0.00000	2.2000	0.20000	0.20000	0.00312	mg/
		2.1000	0.00000	2.2000	-0.10000	-0.10000	-0.00250	mg/
Ni	231.604	6.5000	0.00000	6.4000	0.10000	0.10000	0.00201	mg/
		6.0000	0.00000	6.6000	-0.60000	-0.60000	-0.00855	mg/
		6.8000	0.00000	6.4000	0.40000	0.40000	0.00654	mg/
Be	234.861	9.0000	0.00000	9.0000	0.00000	0.00000	0.00000	mg/
		9.0000	0.00000	9.0000	0.00000	0.00000	0.00000	mg/
		10.000	0.00000	8.0000	2.0000	2.0000	0.00200	mg/
B	249.678	46.200	0.00000	12.900	33.300	33.300	0.05745	mg/
		47.200	0.00000	12.600	34.600	34.600	0.06026	mg/
		45.700	0.00000	12.000	33.700	33.700	0.05832	mg/
Mn	257.610	13.000	0.00000	11.000	2.0000	2.0000	0.00072	mg/
		13.000	0.00000	12.000	1.0000	1.0000	-0.00036	mg/
		12.000	0.00000	11.000	1.0000	1.0000	-0.00036	mg/
Fe	259.940	8348.6	0.00000	6.8000	8341.8	8341.8	96.997	mg/
		8229.0	0.00000	7.2000	8221.8	8221.8	95.602	mg/
		8212.3	0.00000	6.7000	8205.6	8205.6	95.413	mg/
Fe	271.441	174.50	2.2000	0.00000	172.30	172.30	100.16	mg/
		174.00	2.2000	0.00000	171.80	171.80	99.869	mg/
		173.70	2.4000	0.00000	171.30	171.30	99.578	mg/
Mg	279.553	57586	0.00000	32.000	57554	57554	53.245	mg/
		55038	0.00000	33.000	55005	55005	50.887	mg/
		55894	0.00000	33.000	55861	55861	51.679	mg/
V	292.402	6.4000	8.9000	0.00000	-2.5000	-2.5000	-0.01287	mg/
		6.7000	10.400	0.00000	-3.7000	-3.7000	-0.02058	mg/
		7.0000	10.400	0.00000	-3.4000	-3.4000	-0.01865	mg/
Al	308.215	361.90	2.8000	0.00000	359.10	359.10	104.93	mg/
		347.60	3.0000	0.00000	344.60	344.60	100.69	mg/
		358.90	2.7000	0.00000	356.20	356.20	104.08	mg/
Ca	315.887	7050.1	0.00000	57.300	6992.8	6992.8	107.98	mg/
		6927.2	0.00000	57.800	6869.4	6869.4	106.07	mg/
		6841.9	0.00000	57.800	6784.1	6784.1	104.76	mg/
Cu	324.754	113.00	0.00000	124.00	-11.000	-11.000	-0.01445	mg/
		114.00	0.00000	125.00	-11.000	-11.000	-0.01445	mg/
		109.00	0.00000	130.00	-21.000	-21.000	-0.02219	mg/
Ag	328.068	174.70	0.00000	177.10	-2.4000	-2.4000	-0.00570	mg/
		176.30	0.00000	174.20	2.1000	2.1000	-0.00220	mg/
		171.20	0.00000	176.20	-5.0000	-5.0000	-0.00772	mg/
Ti	334.941	59.000	0.00000	57.000	2.0000	2.0000	-0.00191	mg/
		59.000	0.00000	58.000	1.0000	1.0000	-0.00273	mg/
		59.000	0.00000	58.000	1.0000	1.0000	-0.00273	mg/
Y	371.030	460.00	0.00000	430.00	30.000	30.000	0.00296	mg/
		440.00	0.00000	440.00	0.00000	0.00000	0.00074	mg/
		460.00	0.00000	430.00	30.000	30.000	0.00296	mg/
Mg	383.826	18705	362.00	0.00000	18343	18343	56.145	mg/
		18520	365.00	0.00000	18155	18155	55.570	mg/
		18858	362.00	0.00000	18496	18496	56.613	mg/
Ca	393.366	+o******	0.00000	930.00	+o******	+o******	82.325	mg/>
		+o******	0.00000	930.00	+o******	+o******	82.325	mg/>
		+o******	0.00000	920.00	+o******	+o******	82.326	mg/>
Al	396.152	15103	0.00000	131.00	14972	14972	99.192	mg/
		14684	0.00000	131.00	14553	14553	96.415	mg/

		230.00	190.00	0.00000	40.000	40.000	0.00158	mg/
		230.00	180.00	0.00000	50.000	50.000	0.00218	mg/
Zn	481.053	1925.4	0.00000	108.60	1816.8	1816.8	96.879	mg/
		1894.5	0.00000	104.10	1790.4	1790.4	95.469	mg/
		1956.1	0.00000	104.80	1851.3	1851.3	98.720	mg/
Ba	493.409	350.00	330.00	0.00000	20.000	20.000	0.00126	mg/
		350.00	330.00	0.00000	20.000	20.000	0.00126	mg/
		350.00	330.00	0.00000	20.000	20.000	0.00126	mg/
Na	588.995	24132	228.00	0.00000	23904	23904	94.892	mg/
		24171	234.00	0.00000	23937	23937	95.023	mg/
		24935	231.00	0.00000	24704	24704	98.065	mg/
Li	670.784	16.000	0.00000	15.100	0.90000	0.90000	0.00019	mg/
		16.700	0.00000	14.900	1.8000	1.8000	0.00189	mg/
		16.700	0.00000	15.100	1.6000	1.6000	0.00151	mg/
K	766.490	3403.5	0.00000	39.700	3363.8	3363.8	96.421	mg/
		3447.1	0.00000	38.900	3408.2	3408.2	97.694	mg/
		3302.1	0.00000	38.700	3263.4	3263.4	93.543	mg/
K	769.896	3698.6	0.00000	59.500	3639.1	3639.1	97.414	mg/
		3772.8	0.00000	58.300	3714.5	3714.5	99.432	mg/
		3805.2	0.00000	59.400	3745.8	3745.8	100.27	mg/

----- 14:56:57 7/ 7/99 ----- Method: JYSED5

Sample HIGH AQC 3- - 33

EL	Wave	Concentration		SD	RSD
Sn	189.989	0.09110	mg/L	0.03506	38
Tl	190.864	0.38631	mg/L	0.04191	11
Tl	190.883	0.03608	mg/L	0.03202	89
As	193.759	-0.07676	mg/L	0.05880	77
Se	196.090	-0.01450	mg/L	0.00603	42
Mo	202.030	0.00888	mg/L	0.00513	58
Se	203.985	-0.11294	mg/L	0.04600	41
Cr	205.552	-0.00144	mg/L	0.00216	150
Sb	206.833	-0.05535	mg/L	0.01800	33
Zn	213.856	95.921	mg/L	0.17199	0.18
Sb	217.581	-0.00600	mg/L	0.00705	120
Pb	220.353	0.00693	mg/L	0.01854	270
Co	228.616	-0.00283	mg/L	0.00121	43
Cd	228.802	0.00000	mg/L	0.00286	+o***
Ni	231.604	0.00000	mg/L	0.00774	+o***
Be	234.861	0.00067	mg/L	0.00116	170
B	249.678	0.05868	mg/L	0.00144	2.4
Mn	257.610	0.00000	mg/L	0.00062	+o***
Fe	259.940	96.004	mg/L	0.86516	0.90
Fe	271.441	99.869	mg/L	0.29071	0.29
Mg	279.553	51.937	mg/L	1.2002	2.3
V	292.402	-0.01737	mg/L	0.00402	23
Al	308.215	103.23	mg/L	2.2417	2.2
Ca	315.887	106.27	mg/L	1.6195	1.5
Cu	324.754	-0.01703	mg/L	0.00447	26
Ag	328.068	-0.00521	mg/L	0.00279	54
Ti	334.941	-0.00246	mg/L	0.00047	19
Y	371.030	0.00222	mg/L	0.00128	58
Mg	383.826	56.109	mg/L	0.52242	0.93
Ca >	393.366	+o********	mg/L	0.00040	0.00
Al	396.152	98.193	mg/L	1.5437	1.6
Sr	421.552	0.00158	mg/L	0.00059	37
Zn	481.053	97.023	mg/L	1.6302	1.7
Ba	493.409	0.00126	mg/L	0.00000	0.00
Na	588.995	95.993	mg/L	1.7950	1.9
Li	670.784	0.00120	mg/L	0.00089	75