

44077

21ST CENTURY ENVIRONMENTAL INC.

GC/MS STANDARD DECAFLUOROTRIPHENYLPHOSPHINE(DFTPP) TUNE  
CRITERIA FOR SEMIVOLATILES 50ng

DATE AND TIME OF INJECTION: 3/26/93 9:56  
INSTRUMENT ID: 5970

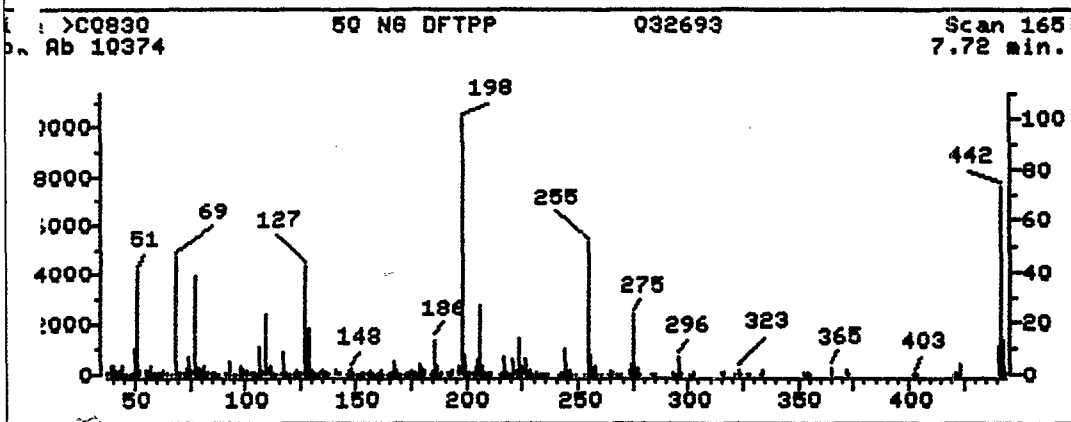
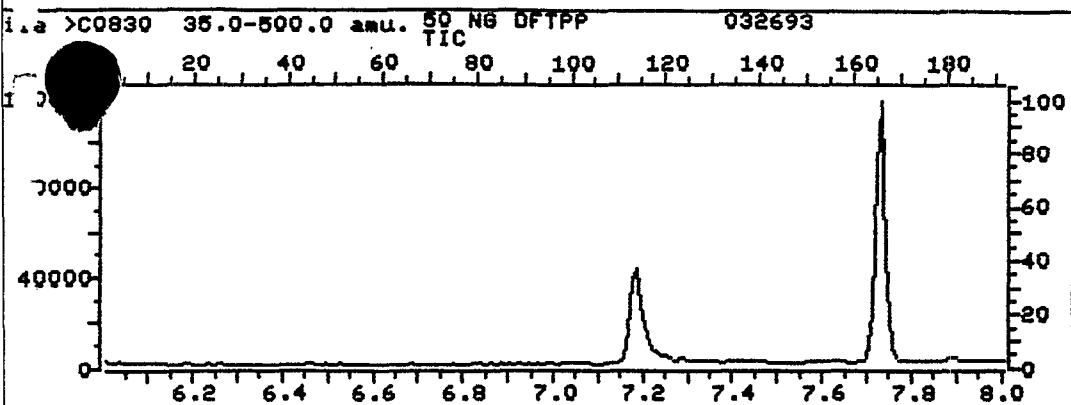
DATA RELEASE AUTHORIZED BY Robert W. Lynch

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
51	30-60% of mass 198	40.28	40.28	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	45.25	45.25	Ok
70	Less than 2% of mass 69	.55	1.21	Ok
127	40-60% of mass 198	42.18	42.18	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.41	7.41	Ok
275	10-30% of mass 198	22.82	22.82	Ok
365	Greater than 1% of mass 198	2.76	2.76	Ok
441	0-100% of mass 443	11.20	85.13	Ok
442	Greater than 40% of mass 198	73.54	73.54	Ok
443	17-23% of mass 442	13.16	17.89	Ok

THIS PERFORMANCE AFFECTS ALL SAMPLES  
STANDARDS AND BLANKS LISTED BELOW

SAMPLE ID	LAB ID	DATE	TIME
I>C0830::D5	150 NG DFTPP	3/26/93	9:56
I>C0831::D4	150 PPM BNA STD	3/26/93	10:25
I>C0832::E3	120 PPM BNA STD	3/26/93	11:26
I>C0833::E3	1160PPM BNA STD	3/26/93	12:12
I>C0834::E3	180 PPM BNA STD	3/26/93	12:59
I>C0835::E3	1120PPM BNA STD	3/26/93	13:45
I>C0841::D5	INA BLANK 03/13/93	3/26/93	18:27
I>C0842::D5	IAQ BLANK 03/14/93	3/26/93	19:13
I>C0843::D5	IAQ BLANK 03/17/93	3/26/93	19:59
I>C0844::D5	IBNAL014-2	3/26/93	20:45
I>C0845::D5	IAQ BLANK 2/8	3/26/93	21:30
I>C0846::D5	IA0475	3/26/93	22:15

AR100295



C0830 50 NG DFTPP 032693  
165 NRM

File: >C0830 Scan #: 165 Retn. time: 7.72

AR100296

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	.723	95.10	.472	148.80	.627	204.00	3.702	265.75	.559
39.10	3.181	95.90	.434	149.00	.646	205.00	5.755	267.85	.280
40.00	3.345	96.10	.463	151.00	.308	206.00	26.615	269.85	.193
41.10	1.504	96.40	.251	151.70	.318	207.00	3.306	272.95	1.966
41.90	.366	98.00	3.075	152.90	.588	208.00	.810	273.95	4.579
43.10	1.629	99.00	2.622	153.90	.617	208.75	.222	274.95	22.817
44.00	3.634	101.00	1.793	155.00	1.118	210.05	.530	275.90	2.844
45.00	.299	103.05	.617	155.95	1.716	210.35	.540	276.90	2.198
46.20	.125	103.95	1.243	156.95	.511	210.95	1.003	277.90	.337
48.35	.164	104.95	1.109	158.05	.492	214.95	.472	282.80	.212
48.55	.164	105.85	.386	158.95	.434	215.95	.704	283.10	.164
49.10	.511	106.95	11.028	160.05	.790	216.95	6.430	284.20	.328
49.90	9.611	108.05	2.005	160.95	1.388	217.95	1.003	285.10	.260
51.05	40.283	109.95	22.990	162.05	.337	219.05	.251	292.95	.559
52.05	1.523	111.05	3.509	163.95	.231	219.95	.222	294.25	.096
55.05	1.957	112.15	.569	164.95	1.080	220.95	5.543	295.95	6.854
55.95	1.205	113.15	.212	165.95	.742	222.90	1.581	296.95	1.051
57.05	3.721	114.90	.145	166.95	4.878	223.90	13.775	300.95	.222
58.05	.347	116.10	1.022	167.95	1.822	224.90	3.142	302.80	1.070

60.05	.395	117.90	.733	169.70	.328	227.90	1.118	315.90	.694
61.00	.839	118.90	.280	172.00	.434	228.90	1.523	321.05	.231
62.00	.810	119.70	.202	172.90	.569	229.90	.270	322.95	1.822
63.00	1.513	120.70	.241	173.80	.742	231.00	.627	323.85	.453
65.10	.974	122.10	1.118	175.00	1.725	233.00	.193	326.75	.405
66.90	.443	123.00	1.562	176.00	.530	234.10	.154	327.95	.376
69.00	45.248	124.00	.945	177.00	.742	235.00	.472	332.90	.260
70.00	.549	125.00	.521	177.60	.193	235.85	.251	333.90	1.513
70.90	.675	127.00	42.182	178.90	3.923	240.95	.492	351.85	.511
73.00	.781	128.10	3.933	179.90	2.304	241.85	.598	353.05	.472
74.00	2.776	128.95	17.640	181.00	1.378	242.95	1.031	353.95	.752
74.95	6.381	129.95	1.764	183.55	.241	243.95	9.909	354.95	.135
75.95	2.130	130.85	.588	185.05	1.629	244.85	1.398	364.90	2.757
77.05	37.931	131.95	.347	185.95	13.592	245.85	1.754	371.95	1.378
78.05	2.429	132.85	.202	186.95	3.769	247.05	.424	372.95	.145
79.05	2.718	133.95	.607	187.95	.386	248.85	.492	401.85	.395
80.05	2.101	135.05	1.369	188.95	.945	252.80	.231	402.85	.704
90.95	2.988	135.95	.684	191.05	.521	253.10	.251	403.95	.193
91.95	1.272	137.05	.790	191.95	1.243	254.90	51.176	420.80	.492
93.05	.916	137.75	.270	193.05	1.417	255.90	7.702	421.90	.684
95.05	.906	141.05	1.851	196.00	3.393	257.10	.646	423.00	4.299
95.95	1.051	142.00	1.060	197.90	100.000	257.90	3.489	423.85	.655
96.95	.405	143.00	.617	198.90	7.413	259.00	.443	441.00	11.201
97.85	.241	146.00	.376	200.00	.530	260.90	.202	441.90	73.540
98.00	1.051	147.00	1.330	201.40	.713	263.75	.308	442.90	13.158
98.90	.733	147.90	2.352	203.00	.771	264.85	1.417	444.00	1.147
92.90	4.685								

AR100297

Initial Calibration Data  
HSL Compounds

Instrument ID: 5970C

Contractor: 21st Century Envir

Calibration Date: 03/26/93

Contract No:

Minimum RF for SPCC is 0.050

Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C0832 >C0831 >C0834 >C0835 >C0833					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
Pyridine	.41943	.60202	.58244	.70555	.83042	.377	.62797	24.312		
n-Nitrosodimethylamine	.56419	.48752	.47382	.54317	.53737	.388	.52122	7.413		
2-Fluorophenol	.65722	.55953	.49965	.69180	.36696	.712	.55503	23.423		(Conc=100.0,100.0,100.0,1
Phenol-d5	.99623	.84794	.77941	1.06506	.57559	.948	.85285	22.545		(Conc=100.0,100.0,100.0,1
Phenol	1.18517	.99830	1.01060	1.17495	1.17724	.951	1.10925	8.641	*	
bis(-2-Chloroethyl)Ether	.98537	.84933	.82432	.96530	.93494	.961	.91185	7.825		
2-Chlorophenol	.90042	.78999	.74140	.86542	.86744	.961	.83293	7.832		
1,3-Dichlorobenzene	.99711	.86205	.78831	.87912	.89798	.990	.88491	8.503		
1,4-Dichlorobenzene	1.00748	.86649	.80981	.88870	.91085	1.004	.89667	8.080	*	
Benzyl Alcohol	.27457	.46261	.46534	.54171	.54735	1.055	.45832	24.078		
Chlorobenzene	.96583	.83895	.77087	.87928	.87870	1.049	.86673	8.175		
Phenol	.88528	.78091	.75276	.87112	.87460	1.089	.83293	7.369		
bis(2-Chloroisopropyl)ether	1.59534	1.27621	1.13836	1.49648	1.86468	1.086	1.47421	19.175		
1-Methylphenol	1.82790	1.62512	1.56060	1.85887	1.83510	1.128	1.74152	7.929		
1-Nitroso-Di-n-propylamine	.91326	.76719	.74077	.83195	.77948	1.125	.80653	8.464	**	
Hexachloroethane	.44585	.40228	.38437	.42950	.42558	1.116	.41752	5.796		
Nitrobenzene-d5	.37923	.35583	.33946	.36990	.34794	.877	.35847	4.500		(Conc=50.0,50.0,50.0,50.0
Nitrobenzene	.45787	.42148	.42872	.43005	.43072	.881	.43377	3.220		
Isophorone	.95653	.91819	.91526	.94385	.95194	.923	.93716	2.051		
2-Nitrophenol	.20864	.22050	.19873	.20622	.21822	.939	.21846	4.249	*	
1,4-Dimethylphenol	.31826	.32009	.30358	.31263	.31901	.953	.31471	2.179		
Benzoic Acid	.17412	.22157	.22142	.22732	.24938	.988	.21876	12.556		
bis(-2-Chloroethoxy)Methane	.47493	.46797	.44975	.46909	.48051	.971	.46845	2.475		
2,4-Dichlorophenol	.34284	.35246	.32508	.32214	.34110	.982	.33672	3.793	*	
1,2,4-Trichlorobenzene	.43009	.41442	.37215	.35731	.38424	.993	.39164	7.671		
Naphthalene	1.17240	1.12069	1.05255	1.02128	1.04821	1.004	1.08302	5.722		
4-Chloroaniline	.45358	.42343	.41645	.41129	.38425	1.028	.41780	5.962		
Hexachlorobutadiene	.23915	.23391	.20351	.19483	.20591	1.035	.21546	9.169	*	
4-Chloro-3-methylphenol	.34656	.34294	.33494	.32802	.32862	1.123	.33622	2.482	*	
2-Methylnaphthalene	.83315	.78242	.74425	.71304	.72715	1.134	.76000	6.374		

RF - Response Factor (Subscript is amount in ug/l)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (\*) SPCC - System Performance Check Compounds (\*\*)

Initial Calibration Data  
HSL Compounds

Case No: \_\_\_\_\_ Instrument ID: 5970C

Contractor: 21st Century Envir Calibration Date: 03/26/93

Contract No: \_\_\_\_\_

Minimum RF for SPCC is 0.050 Maximum % RSD for CCC is 30%

Compound	Laboratory ID:					RRT	RF	% RSD	CCC	SPCC
	>C0832	>C0831	>C0834	>C0835	>C0833					
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
hexachlorocyclopentadiene	.26112	.28260	.26588	.29470	.32416	.879	.28569	8.866		**
2,4,6-Trichlorophenol	.37895	.40114	.36921	.38265	.41105	.897	.38860	4.392	*	
2,4,5-Trichlorophenol	.39928	.42485	.41867	.42238	.44908	.902	.42285	4.206		
1-Chloronaphthalene	1.34472	1.29039	1.24382	1.24880	1.34952	.919	1.29369	4.071		
1-Fluorobiphenyl	1.38662	1.29334	1.23434	1.33895	1.49221	.907	1.34909	7.250		(Conc=50.0,50.0,50.0,50.0)
2-Nitroaniline	.36961	.40025	.37404	.34540	.36680	.947	.37122	5.285		
Dimethyl Phthalate	1.74587	1.61357	1.47233	1.33865	1.43337	.976	1.52076	18.523		
1-naphthylbenzene	1.95587	1.84357	1.85590	1.73912	1.84863	.978	1.84702	4.161		
1-Nitroaniline	.25807	.25021	.22352	.19295	.20391	1.807	.22413	11.667		
Acenaphthene	1.38512	1.21554	1.21419	1.14675	1.24329	1.805	1.24098	7.897	*	
2,4-Dinitrophenol	.84253	.87813	.85149	.85247	.86801	1.821	.85533	18.687		**
3-Nitrophenol	.10140	.10846	.09640	.08218	.09378	1.835	.09643	18.105		**
Dibenzofuran	1.79678	1.73391	1.58787	1.47863	1.61334	1.027	1.64051	7.801		
2,4-Dinitrotoluene	.36646	.38319	.32203	.27344	.29302	1.842	.32763	14.285		
2,6-Dinitrotoluene	.33775	.34847	.31325	.29693	.31349	.989	.32198	6.453		
Diethylphthalate	1.65259	1.46725	1.27885	1.11294	1.13458	1.075	1.32908	17.276		
4-Chlorophenyl-phenylether	.74120	.69803	.63039	.57234	.61310	1.078	.65101	18.417		
fluorene	1.37444	1.28589	1.13818	.99276	1.05425	1.076	1.16910	13.595		
1-Nitroaniline	.16784	.18876	.15876	.13388	.14402	1.096	.15865	13.440		
4,6-Dinitro-2-methylphenol	.86875	.89666	.87952	.88218	.89189	.989	.88380	13.049		
1-Nitrosodiphenylamine	.65276	.63646	.65172	.64950	.69092	.910	.65627	3.115	*	
2,4,6-Tribromophenol	.08738	.09622	.06795	.07861	.07935	.923	.08190	12.988		(Conc=100.0,100.0,100.0,100.0)
4-Bromophenyl-phenylether	.28097	.29069	.27774	.29824	.31006	.949	.28994	4.345		
Hexachlorobenzene	.27836	.29594	.26328	.26638	.28049	.964	.27689	4.686	*	
1-chloro-2-naphthol	.85598	.88664	.86802	.85934	.87841	.987	.86808	19.970		**
phenanthrene	1.24589	1.18582	1.13842	1.12317	1.21186	1.003	1.18071	4.284		
Anthracene	1.28683	1.18999	1.12447	1.13644	1.19537	1.008	1.17062	3.195		
1-n-Butylphthalate	1.66800	1.52913	1.47183	1.37605	1.46806	1.079	1.50101	6.957		
fluoranthene	.81876	.84947	.76152	.73832	.81951	1.143	.79591	6.101	*	
Pyrene	1.99588	1.78711	1.61580	1.67635	1.67690	.890	1.75041	8.598		

RF - Response Factor (Subscript is amount in ug/l)

RT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (\*) SPCC - System Performance Check Compounds (\*\*)

Initial Calibration Data  
HSL Compounds

Instrument ID: 5970C

Contractor: 21st Century Envir

Calibration Date: 03/26/93

Contract No:

Minimum RF for SPCC is 0.050

Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C0832 >C0831 >C0834 >C0835 >C0833					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
enzidine	.25817	.27215	.31679	.28462	.13469	.888	.25328	27.538		
erphenyl-d14	1.35820	1.10238	.97500	1.01273	1.05211	.907	1.10008	13.801		(Conc=50.0,50.0,50.0,50.0
Butylbenzylphthalate	1.08765	.98847	.94365	.98674	1.01296	.955	1.00229	5.363		
2,3'-Dichlorobenzidine	.25864	.23939	.23980	.23675	.23134	.988	.24118	4.281		
benzo(a)Anthracene	1.25764	1.21490	1.15244	1.13790	1.23939	.998	1.20045	4.411		
Bis(2-Ethylhexyl)Phthalate	1.59468	1.49069	1.44815	1.51054	1.54630	1.006	1.51807	3.662		
Chrysene	1.18277	1.06335	1.05198	1.13776	1.14550	1.002	1.11627	5.042		
i-n-octyl phthalate	2.94518	2.91868	2.96883	2.97843	3.23223	.944	3.00707	4.275	*	
benzo(b)fluoranthene	1.26793	1.35056	1.31109	1.23762	1.21772	.973	1.27699	4.239		
Benzo(k)Fluoranthene	1.15114	1.15825	1.18226	1.23712	1.38233	.975	1.22222	7.826		
benzo(a)Pyrene	1.28052	1.14069	1.13622	1.17373	1.32280	.996	1.21079	7.063	*	
benzo(2,3-cd)Pyrene	1.21497	1.05855	1.08688	1.15609	1.25198	1.078	1.15370	7.113		
Dibenz(a,h)Anthracene	.97238	.89696	.85283	.88014	1.01517	1.078	.92350	7.338		
benzo(g,h,i)Perylene	1.02963	.91733	.85807	.88713	1.00151	1.100	.93873	7.870		

RF - Response Factor (Subscript is amount in ug/l)

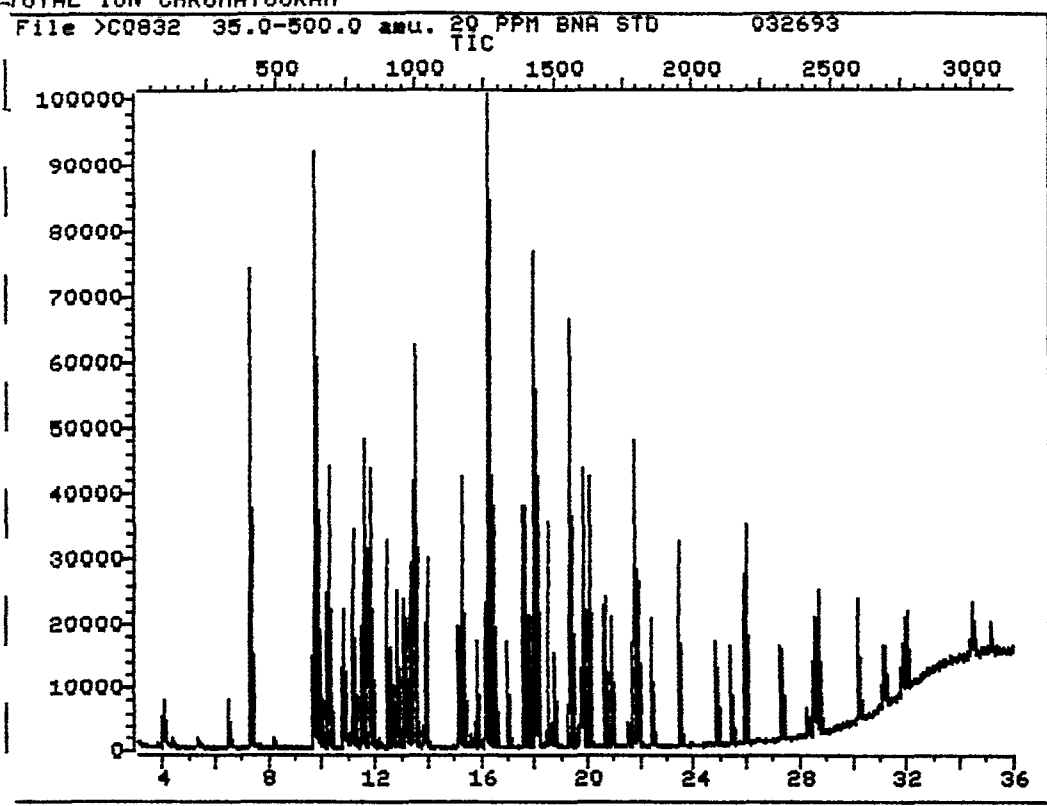
RT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (\*) SPCC - System Performance Check Compounds (\*\*)

TOTAL ION CHROMATOGRAM



Data File: >C0832::E3  
Name: 20 PPM BNA STD  
Misc: 032693

Quant Output File: ^C0832::DA

BTL# 1

Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 12:05  
Injected at: 930326 11:26

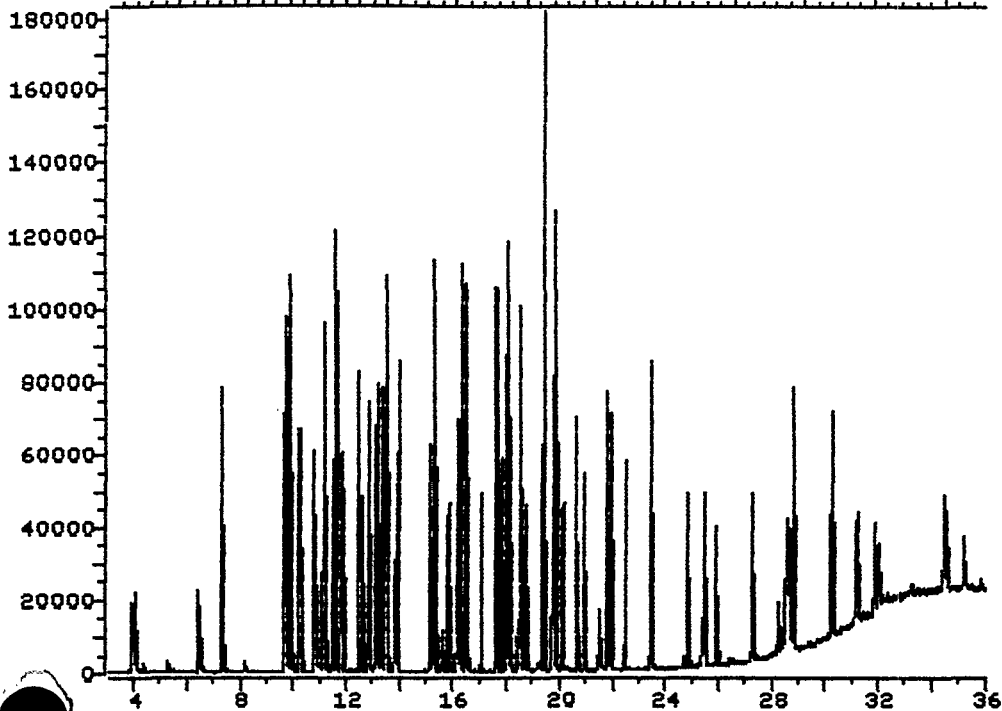
AR100301

ION CHROMATOGRAM

>C0831 35.0-500.0 amu. 50 PPM BNA STD 032693

TIC

500 1000 1500 2000 2500 3000



Data File: >C0831::D4  
Name: 50 PPM BNA STD  
Misc: 032693

Quant Output File: ^C0831::DA

BTL# 2

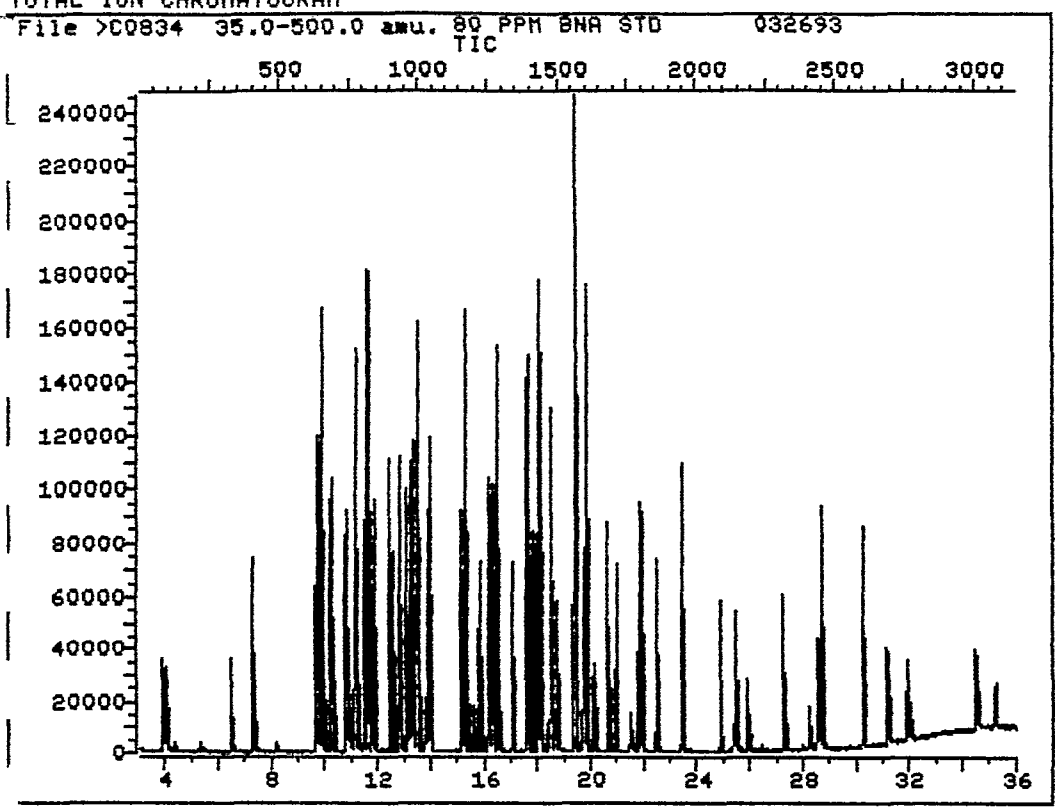
Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 11:09  
Injected at: 930326 10:25

AR100302



TOTAL ION CHROMATOGRAM



Data File: >C0834::E3  
Name: 80 PPM BNA STD  
Misc: 032693

Quant Output File: ^C0834::DA

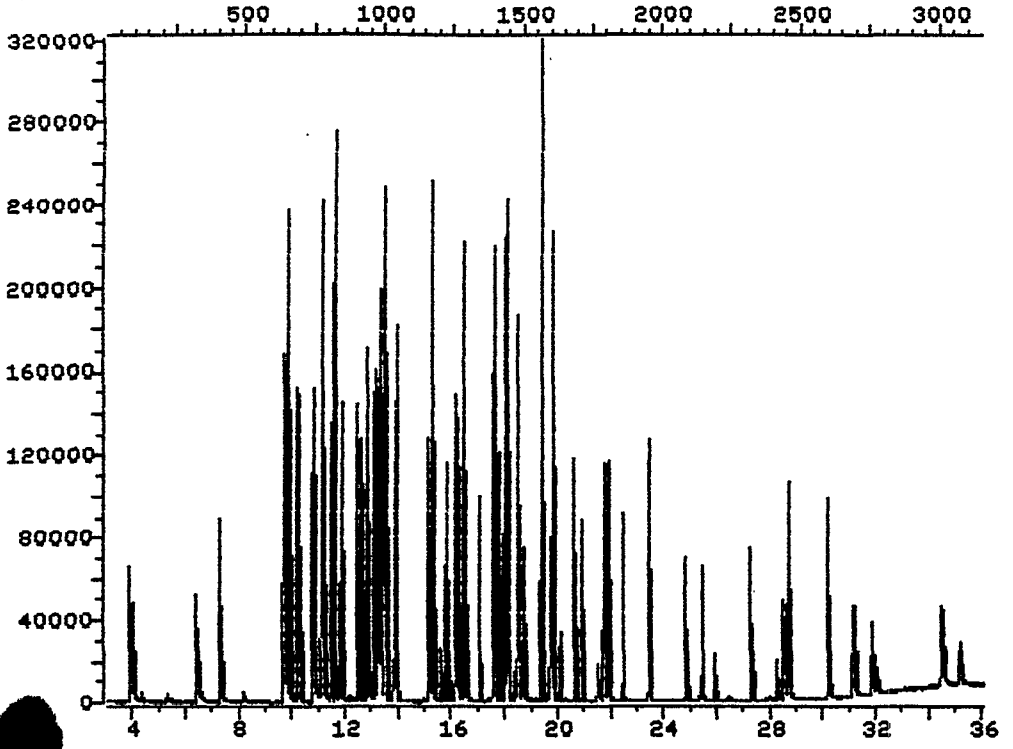
BTL# 3

Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 13:38  
Injected at: 930326 12:59

ION CHROMATOGRAM

>C0835 35.0-500.0 AMU. 120PPM BNA STD 032693  
TIC



Data File: >C0835::E3  
Name: 120PPM BNA STD  
Misc: 032693

Quant Output File: ^C0835::DA

BTL# 4

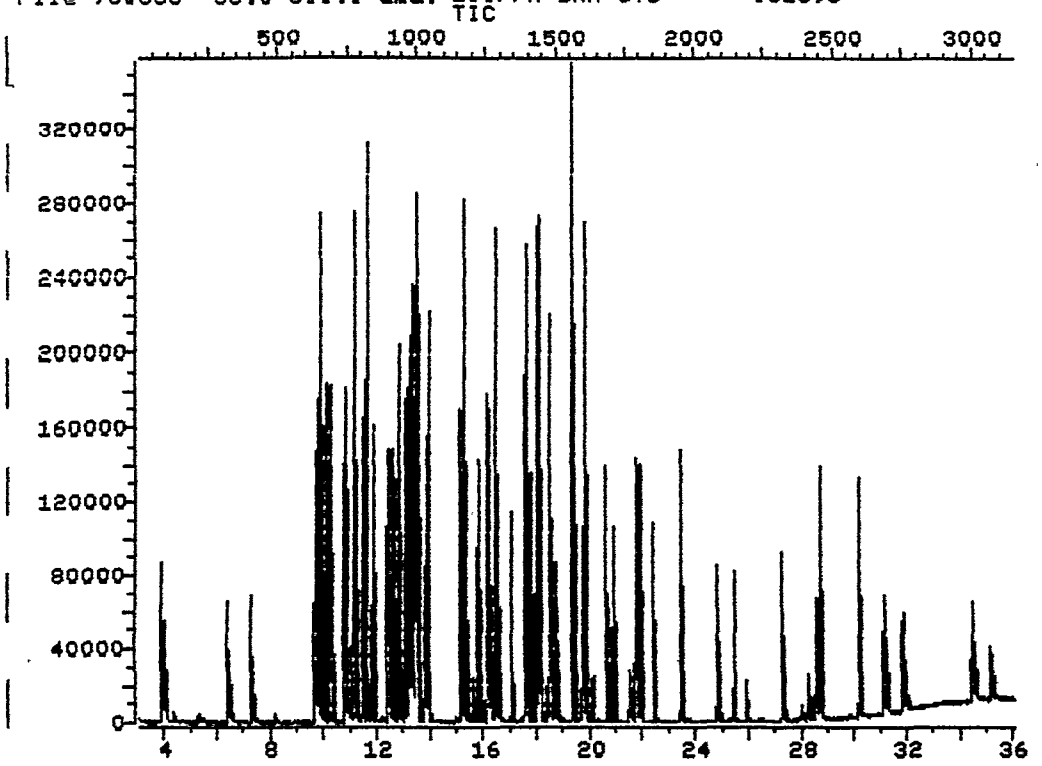
Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 14:24  
Injected at: 930326 13:45

AR100304

TOTAL ION CHROMATOGRAM

File >C0833 35.0-500.0 amu. 160PPM BNA STD 032693



Data File: >C0833::E3  
Name: 160PPM BNA STD  
Misc: 032693

Quant Output File: ^C0833::DA

BTL# 2

Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 12:51  
Injected at: 930326 12:12

AR100305

**AccuQual Laboratories, Inc.**

**MULTI-SAMPLE ANALYTICAL REPORT**

**CLIENT:**  
 21ST CENTURY ENVIRONMENTAL  
 618 HERON DR.  
 BRIDGEPORT, NJ 08014

**REPORT DATE:** 3/26/93  
**JOB NAME/#:**  
**METHODS SUMMARY:**  
 BIPHENYL/PHENYL ETHER:  
 MODIFIED EPA METHOD 8015 (GC/FID)

**DATA AND RESULTS**

LAB ID:	METHOD BLANK	08193-1	08193-2
CLIENT ID:		SA-1	SA-1A
SITE LOCATION/DESCRIPTION:			
SAMPLE MATRIX:	METHANOL	SOIL/FREE PRODUCT	SOIL/FREE PRODUCT
DATE SAMPLE RECEIVED:		3/22/93	3/22/93
DATE ANALYZED:	3/26/93	3/26/93	3/26/93
% MOISTURE (SOILS ONLY):	N/A	N/A	N/A

PARAMETER	RESULT	PQL	UNIT	RESULT	PQL	UNIT	RESULT	PQL	UNIT
BIPHENYL	< 0.05	0.05	UG	3080	2000	PPM	6400	2000	PPM
PHENYL ETHER	< 0.05	0.05	UG	14400	2000	PPM	27200	2000	PPM

**APPROVED BY:** 

**SEVAG S. SINANIAN**  
**LABORATORY DIRECTOR**

**LEGEND:**

ND: not detected above PQL  
 MDL: method detection limit  
 PQL: practical quant. limit

PPM: parts per million= MG/L or MG/KG  
 PPB: parts per billion= UG/L or UG/KG  
 N/A: not applicable/not available

AR100306

Initials	Date
Prepared By	
Approved By	

ELSON JONES COMPANY RXQ7504 ColumnWrite

MADE IN U.S.A.

LAB # / ID	DESCRIPTION	SAMPLE VOL/WT	ANAL METHOD	FINAL VOL	COMMENTS	ANALS INITS
B/1/93	DRO BLANK	(3)	DRO/FID	1 mL		SSS
	02093-1	(4) 10.25 kg		1 mL		
	-2	(5) 0.30 kg		1 mL		
	-3	(6) 0.30 kg		1 mL		
	-4	(7) 1.038 kg		1 mL		
	-5	(8) 1.025 kg		1 mL		
B/1/93	08193-1 (SA-1)	50g	GC/FID	10 mL	meth	dd 1:10 dil
	08193-2 (SA-1A)	50g	"	10 mL	meth	dd 1:10 dil

AR100307

AccuQual Laboratories, Inc.

Initial and Daily Calibration Results for BIPHENYL and PHENYL ETHER by GC/FID using modified EPA method 8015  
from the analysis of standards at the levels indicated

FILE ID: CA\_BPPE

INSTRUMENT: GC 2

CALIBRATION

INITIAL CALIBRATION RESULTS

DAILY CALIBRATION  
CHECK RESULTS

DATE: 3/26/93

DATE: 3/26/93

COMPOUNDS	FILE:	FILE:	FILE:	MEAN RF	MEAN RT	%RSD	FILE:	RF	RF
	BGC2B20 AREA	BGC2B22 AREA	BGC2B21 AREA				BGC2B22 AREA		
	0.05	0.25	0.5				0.25	0.25	%DIFF
biphenyl	106180	588531	1082474	45253	20.9	4.4	588531	42479	6.1
phenyl ether	78331	503496	952634	55324	21.5	11.1	503496	49653	10.3
OTP (surr.std.)	242362	293423	356390	17233	32.5	15.7	293423	17040	1.1

LEGEND:

- RF: RESPONSE FACTOR = (AMOUNT)/(AREA or ABSORBANCE; REPORTED AS ACTUAL RF x EE 11)
- %RSD: % RELATIVE STANDARD DEVIATION
- RT: RETENTION TIME (in min.)
- %DIFF: %DIFFERENCE BETWEEN INITIAL MEAN RF AND DAILY RF
- N/A: DATA NOT AVAILABLE OR NOT APPLICABLE
- ERR: NO DATA COMPUTED
- EE: SCIENTIFIC NOTATION DEFINING TO WHAT POWER OF 10

- NOTES: 1: OTP SURR.STD. TO CONTAIN THE SAME CONCENTRATION AT EACH LEVEL (0.1 ug)  
2: ALL LEVELS INDICATED ARE IN ug

REGRESSION ANALYSIS FOR QUANTITATION:

biphenyl: (AREA) = 2.16EE+6(ug) + 1.60EE+4 r = 0.998  
phenyl ether: (AREA) = 1.94EE+6(ug) - 5.02EE+3 r = 0.999

AR100308

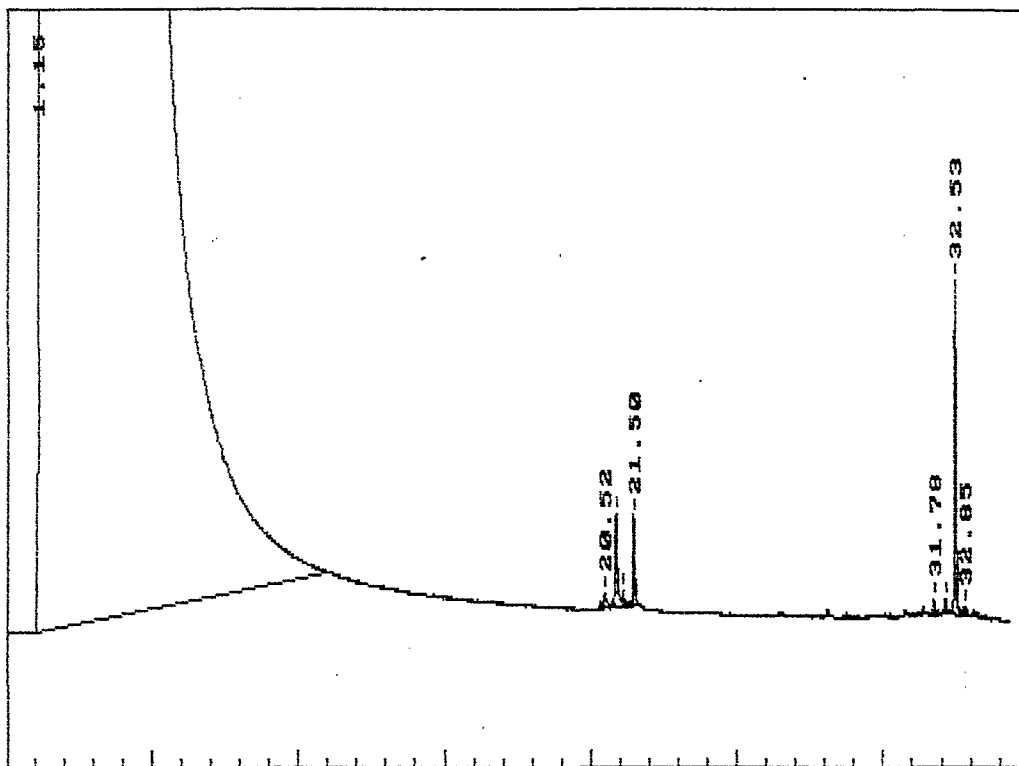
\*\*\*\*\* AREA PERCENT REPORT \*\*\*\*\*

\*\*\*\*\* 03-26-1993 14:40:59 Version 5.1 \*\*\*\*\*  
\* Sample Name: .05uG BP/PE STD Data File: D:BGC2B20 \*  
\* Date: 03-26-1993 14:06:10 Method: BFP\_DRO \*  
\* Interface: 2 Cycle#: 20 Operator sss Channel#: 1 Vial#: N.A. \*  
\* Starting Peak Width: 10 Threshold: 5 Area Threshold: 500 \*  
\*\*\*\*\*  
Starting Delay: 0.00 Run Time: 35.00

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/ Height
1	1.150	207451408	99.75620	0	984265	100.000	210.8
3	20.517	22485	0.0108	2	2962	0.011	7.6
5	20.900	106180	0.0511	3	18442	0.051	5.8
6	21.133	18064	0.0087	4	2952	0.009	6.1
8	21.500	78331	0.0377	2	17973	0.038	4.4
16	31.783	12978	0.0062	1	3150	0.006	4.1
18	32.183	16173	0.0078	2	3069	0.008	5.3
19	32.533	242362	0.1165	3	66829	0.117	3.6
21	32.850	10465	0.0050	2	1604	0.005	6.5

Total Area: 207958448 Area Reject: 10000 One sample per 1.000 sec.

Areas, times, and heights stored in: D:\BGC2B20.ATB  
Data File = D:\BGC2B20.PTS Printed on 03-26-1993 at 14:41:13  
Start time: 0.00 min. Stop time: 35.00 min. Offset: 10 mv.  
Full Range: 150 millivolts



AR100310



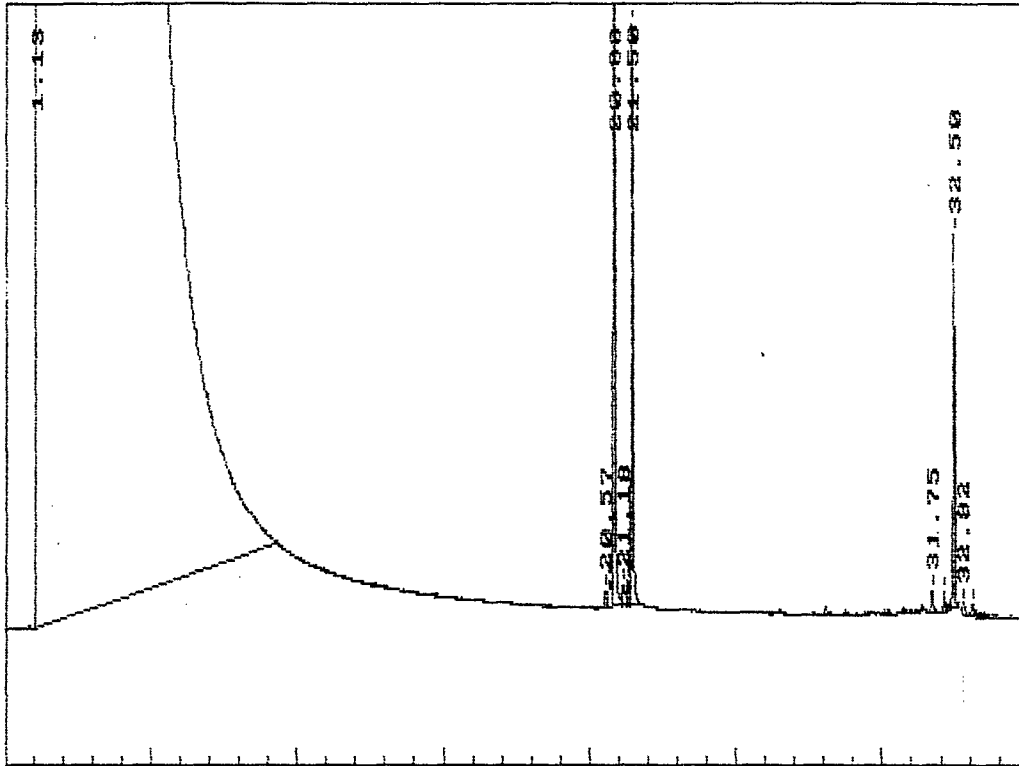
\*\*\*\*\* AREA PERCENT REPORT \*\*\*\*\*

\*\*\*\*\* 03-26-1993 16:24:17 Version 5.1 \*\*\*\*\*  
 \* Sample Name: .25uG BP/PE STD Data File: D:BGC2B22 \*  
 \* Date: 03-26-1993 15:48:56 Method: BFP\_DRO \*  
 \* Interface: 2 Cycle#: 22 Operator sss Channel#: 1 Vial#: N.A. \*  
 \* Starting Peak Width: 10 Threshold: 5 Area Threshold: 500 \*  
 \*\*\*\*\*  
 Starting Delay: 0.00 Run Time: 35.00

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/Height
1	1.133	205607136	99.24850	0	984083	100.000	208.9
2	20.567	17545	0.0085	2	3492	0.009	5.0
3	20.700	38089	0.0184	2	5187	0.019	7.3
4	<u>20.883</u>	<u>588531</u>	0.2841	2	121668	0.286	4.8
5	21.183	27791	0.0134	2	3979	0.014	7.0
6	21.333	30948	0.0149	2	4808	0.015	6.4
7	<u>21.500</u>	<u>503496</u>	0.2430	2	114981	0.245	4.4
19	31.750	18852	0.0091	3	4303	0.009	4.4
21	32.150	16300	0.0079	2	3981	0.008	4.1
23	<u>32.500</u>	<u>293423</u>	0.1416	2	74269	0.143	4.0
24	32.817	11417	0.0055	1	1839	0.006	6.2
25	33.117	10453	0.0050	2	1981	0.005	5.3

Total Area: 207164000 Area Reject: 10000 One sample per 1.000 se

Areas, times, and heights stored in: D:BGC2B22.ATB  
Data File = D:BGC2B22.FTS Printed on 03-26-1993 at 16:24:30  
Start time: 0.00 min. Stop time: 35.00 min. Offset: 10 mv.  
Full Range: 150 millivolts



AR100312

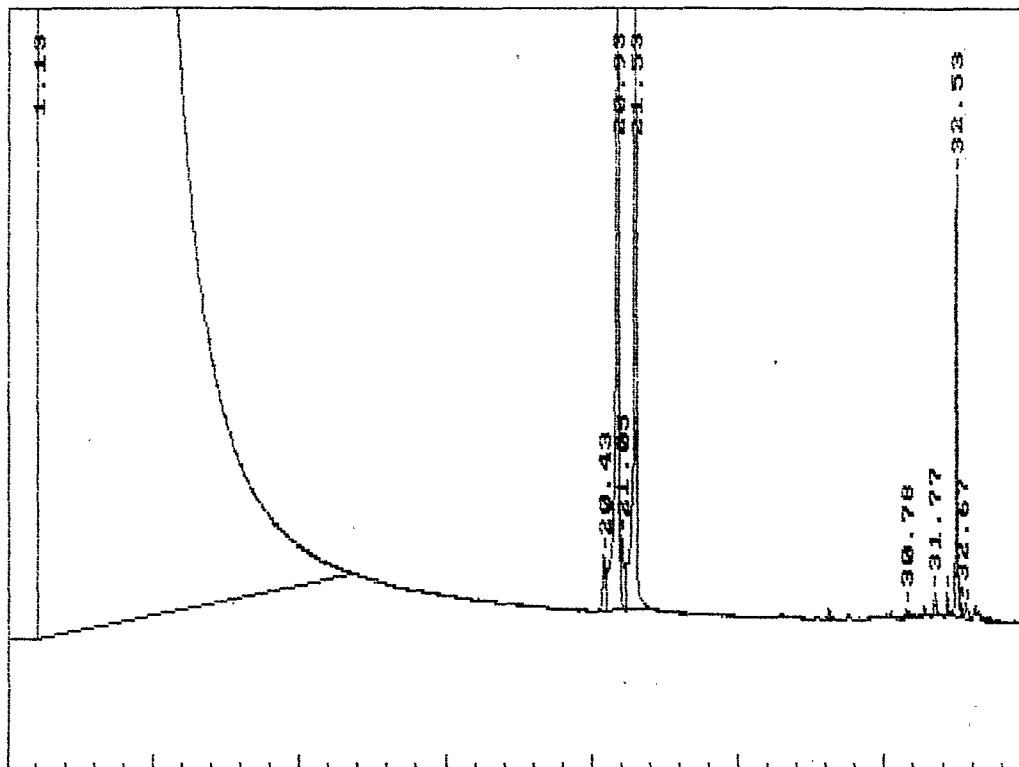
\*\*\*\*\* AREA PERCENT REPORT \*\*\*\*\*

\*\*\*\*\* 03-26-1993 15:37:42 Version 5.1 \*\*\*\*\*  
\* Sample Name: .5 uG BF/PE STD Data File: D:EGC2B21 \*  
\* Date: 03-26-1993 15:02:21 Method: BFP\_DRD \*  
\* Interface: 2 Cycle#: 21 Operator sss Channel#: 1 Vial#: N.A. \*  
\* Starting Peak Width: 10 Threshold: 5 Area Threshold: 500 \*  
\*\*\*\*\*  
Starting Delay: 0.00 Run Time: 35.00

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/Height
1	1.133	221203680	98.80950	0	984614	100.000	224.7
3	20.433	74092	0.0331	2	10857	0.033	6.8
4	20.933	1082474	0.4835	3	164773	0.489	6.6
5	21.050	120229	0.0537	4	14100	0.054	8.5
6	21.533	952634	0.4255	2	140852	0.431	6.8
13	30.783	15447	0.0069	2	1832	0.007	8.4
17	31.767	19824	0.0089	1	4602	0.009	4.3
18	32.167	15562	0.0070	1	4358	0.007	3.6
19	32.533	356390	0.1592	3	86811	0.161	4.1
20	32.667	12168	0.0054	4	2507	0.006	4.9
21	32.833	16345	0.0073	2	2453	0.007	6.7

Total Area: 223868848 Area Reject: 10000 One sample per 1.000 sec.

Areas, times, and heights stored in: D:\BGC2B21.ATB  
Data File = D:\BGC2B21.PTS Printed on 03-26-1993 at 15:37:55  
Start time: 0.00 min. Stop time: 35.00 min. Offset: 10 mv.  
Full Range: 150 millivolts



AR100314

(SA-1A)

08193-2; 0.025mg Processed: 03-26-1993 19:31:55, segment 11, cycle 26  
 RAW DATA SAVED IN FILE D:8602826.FTS

\*\*\*\*\* AREA PERCENT REPORT \*\*\*\*\*

\*\*\*\*\* 03-26-1993 19:32:13 Version 5.1 \*\*\*\*\*  
 \* Sample Name: 08193-2; 0.025mg Data File: D:8602826 \*  
 \* Date: 03-26-1993 18:56:53 Method: BFP\_DRO \*  
 \* Interface: ? Cycles: 26 Operator: \*\*\* Channel#: 1 Vial#: N.A. \*  
 \* Starting Peak Width: 10 Threshold: 5 Area Threshold: 500 \*  
 \*\*\*\*\*  
 Starting Delay: 0.00 Run Time: 35.00

PK No.	Ret Time	Peak Area	Area %	Peak L	Peak Ht.	Normalized %	Area/Height
1	1.167	155117824	98.92450	984990	100.000	157.5	
2	20.850	373332	0.2381	1	67436	0.241	4.3 = 0.16 µg BP
3	21.550	1513014	0.9374	1	228065	0.846	5.9 = 0.68 µg PE

Total Area: 156804176 Area Rejects: 10000 One sample per 1.000 sec.  
 ↙ high but OK

$$\frac{0.16 \mu\text{g}}{0.025 \text{ mg}} \Rightarrow \frac{0.16 \mu\text{g}}{0.00025 \text{ mg}} = 6400 \text{ ppm Biphenyl}$$

$$\Rightarrow \frac{0.68 \mu\text{g}}{0.00025 \text{ mg}} = 27200 \text{ ppm Phenyl Ether}$$

(SA-1)

08193-1; 0.025mg Processed: 03-26-1993 18:46:47, segment 10, cycle 25  
RAW DATA SAVED IN FILE D:\8602B25.PTS

\*\*\*\*\* AREA PERCENT REPORT \*\*\*\*\*

\*\*\*\*\* 03-26-1993 18:47:05 Version 5.1 \*\*\*\*\*  
\* Sample Name: 08193-1; 0.025mg Data File: D:\8602B25 \*  
\* Date: 03-26-1993 18:11:45 Method: RFP\_DRO \*  
\* Interface: 2 Cycle#: 25 Operator see Channel#: 1 Vial#: 8.4 \*  
\* Starting Peak Width: 10 Threshold: 5 Area Threshold: 500 \*  
\*\*\*\*\*  
Starting Delay: 0.00 Run Time: 35.00

PK No.	Ret Time	Peak Area	Area %	Height	Normalized %	Area Height	
1	1.167	167632976	99.468220	984950	100.000	170.0	
2	20.833	182134	0.10812	40443	0.109	4.5	= 0.077ug BP
3	21.500	691845	0.41052	136487	0.413	4.4	= 0.36ug PE
6	32.450	22191	0.01323	3679	0.013	3.9	

Total Area: 168529157 Area Reject: 10000 One sample per 1.000 sec.

$$\frac{0.077 \mu\text{g}}{0.025 \text{ mg}} \Rightarrow \frac{0.077 \mu\text{g}}{0.000025 \text{ g}} = 3080 \text{ ppm BP}$$

$$\frac{0.36 \mu\text{g}}{0.025 \text{ mg}} \Rightarrow \frac{0.36 \mu\text{g}}{0.000025 \text{ g}} = 14400 \text{ ppm PE}$$

CERTIFICATE OF ANALYSIS

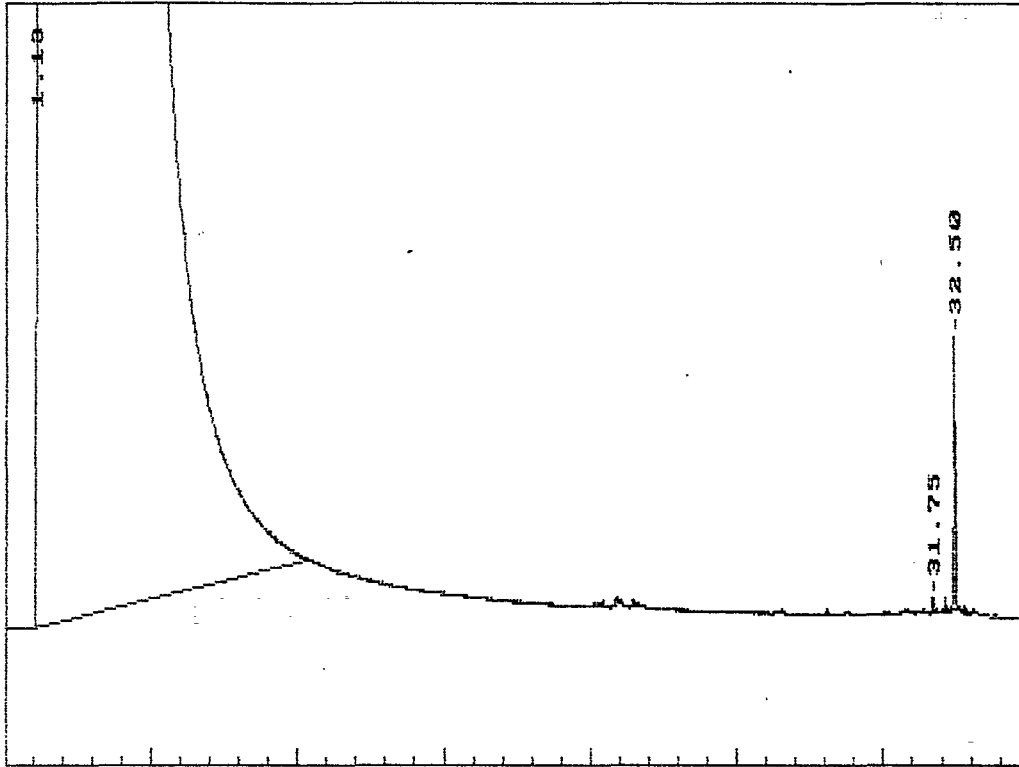
BIPHENYL/PHENYL ETHER

ANALYSIS NO: Method Blank

CLIENT ID:

<u>PARAMETER</u>	<u>MDL (ug/L)</u>	<u>RESULT (ug/L)</u>
BIPHENYL	0.05	N.D.
PHENYL ETHER	0.05	N.D.

Areas, times, and heights stored in: D:BGC2B23.ATE  
Data File = D:BGC2B23.PTS Printed on 03-26-1993 at 17:11:14  
Start time: 0.00 min. Stop time: 35.00 min. Offset: 10 mv.  
Full Range: 150 millivolts

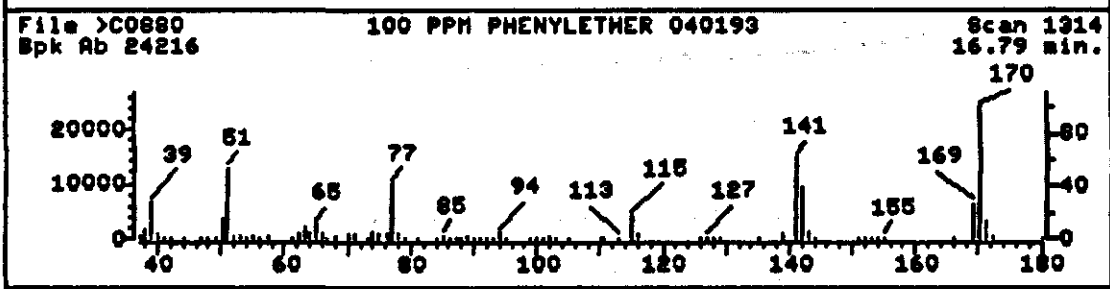
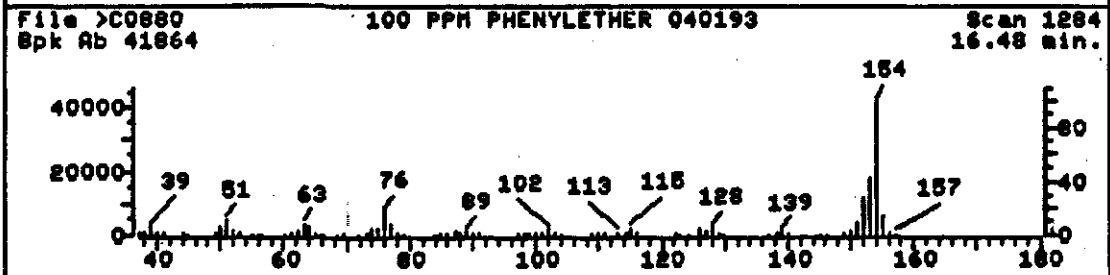
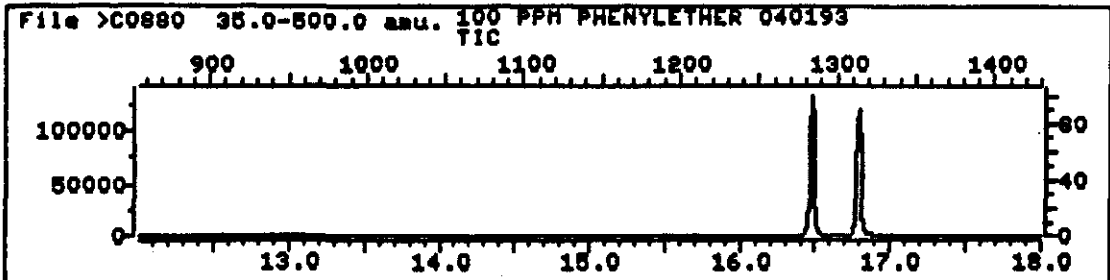


BLANK

surrogate: 0.083  $\mu$ g  $\therefore \left| \frac{0.083 - 0.1}{0.1} \right| \times 100 = 17\% \text{ diff}$   
(83% Rec)

AR100318





>C0880 100 PPM PHENYLETHER 040193  
35.01 500.0 TIC

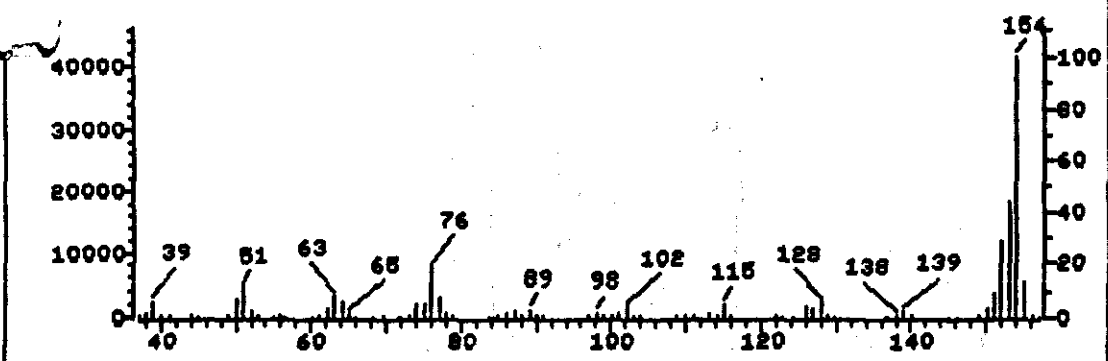
Upslope: .20 Area Reject: 5.00 % Max Peaks: 2 Bunching: 1  
Dnslope: 0.00 Results File IC0289 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	16.48	1279	1284	1294	133105	280350	274915	100.00	52.199
2	16.79	1309	1314	1325	119693	256628	251755	91.58	47.801

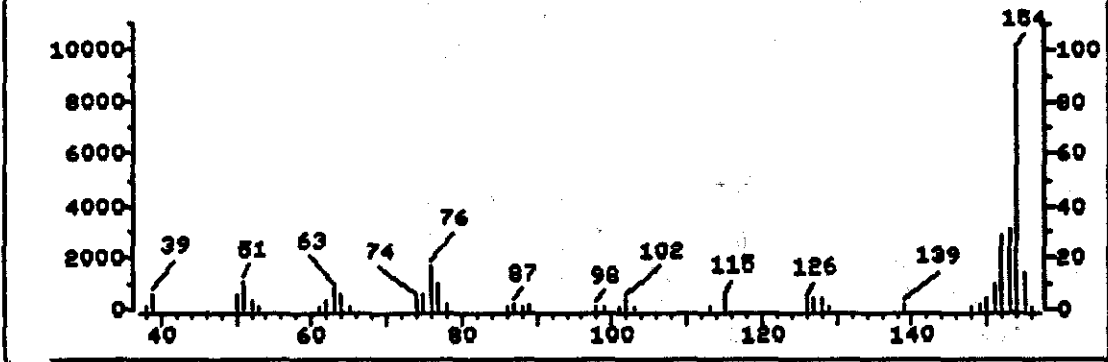
Sum of corrected areas: 526670.

AR100319

File >C0880 100 PPM PHENYLETHER 040193 Scan 1284  
 Pk Ab 41864 16.48 min.



File >B160B 1,1'-Biphenyl (9CI) Scan 17935  
 Pk Ab 9999 0.00 min.



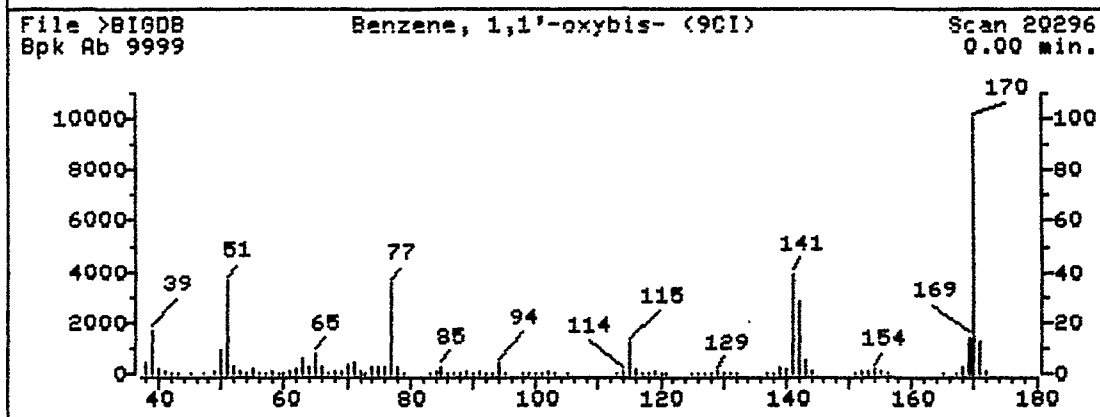
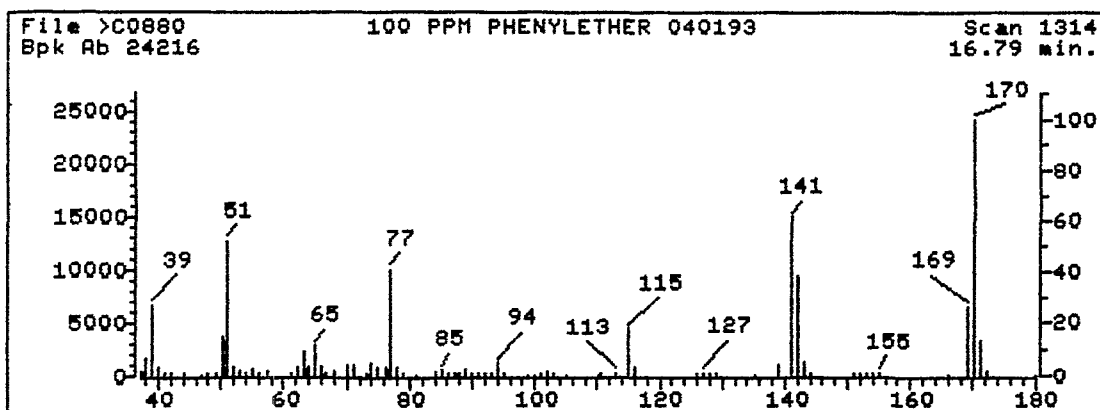
- |   |             |
|---|-------------|
| 1. 1,1'-Biphenyl (9CI)                                  | 154 C12H10  |
| 2. Naphthalene, 2-ethenyl- (9CI)                        | 154 C12H10  |
| 3. Acenaphthene (8CI)                                   | 154 C12H10  |
| 4. 1,4-Ethenonaphthalene, 1,4-dihydro- (8CI9CI)         | 154 C12H10  |
| 5. 1-Isoquinolinecarbonitrile (9CI)                     | 154 C10H6N2 |
| 6. Benzene, (2,4-cyclopentadien-1-ylidenemethyl)- (9CI) | 154 C12H10  |

Sample file: >C0880 Spectrum #: 1284  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	74*	92524	17935	"BIGDB	66	39	0	0	66	40	28	78
2.	65*	827543	17944	"BIGDB	59	42	1	0	60	31	24	53
3.	50*	83329	17933	"BIGDB	57	48	2	0	50	31	20	34
4.	38*	7322476	17956	"BIGDB	46	46	1	0	43	45	12	29
5.	31*	1198307	17946	"BIGDB	35	71	2	0	77	35	12	14
6.	20*	7338503	17817	"BIGDB	35	54	2	0	43	51	5	17

:AL,,3 Move cursor; then press carriage return :

AR100320



- |  |              |
|--|--------------|
| 1. Benzene, 1,1'-oxybis- (9CI)                   | 170 C12H100  |
| 2. [1,1'-Biphenyl]-3-ol (9CI)                    | 170 C12H100  |
| 3. [1,1'-Biphenyl]-4-ol (9CI)                    | 170 C12H100  |
| 4. Quinaldonitrile, 3-hydroxy- (8CI)             | 170 C10H6N2O |
| 5. 1,4-Methanonaphthalene, 1,4-dihydro- (8CI9CI) | 142 C11H10   |
| 6. 1H-Indene, 1-ethylidene- (9CI)                | 142 C11H10   |
| 7. 1H,3H-Naphtho[1,8-cd]pyran (8CI9CI)           | 170 C12H100  |
| 8. [1,1'-Biphenyl]-2-ol (9CI)                    | 170 C12H100  |

Sample file: >C0880 Spectrum #: 1314  
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	86*	101848	20296	"BIGDB	60	46	2	0	100	4	60	77
2.	25*	580518	20298	"BIGDB	28	62	2	0	96	50	7	7
3.	25*	92693	20294	"BIGDB	24	71	2	0	100	49	7	7
4.	25*	15462438	20312	"BIGDB	31	81	3	0	71	44	8	13
5.	18*	4453901	16098	"BIGDB	44	43	2	0	42	58	4	23
6.	15*	2471832	16096	"BIGDB	35	50	2	0	39	60	3	17
7.	15*	203849	15988	"BIGDB	24	84	3	0	61	57	3	12
8.	11*	90437	20293	"BIGDB	26	65	3	0	61	57	3	12

AR100323P

21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0780

DATE ANALYZED: 03/23/93

INSTRUMENT ID: 5970

TIME ANALYZED: 14:30

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT	AREA #	RT	AREA #	RT
12 HOUR STD	12275	10.37	23843	13.57	13778	18.09
UPPER LIMIT	24550		47686		27556	
LOWER LIMIT	6138		11922		6889	
LAB SAMPLE No.						
AQ BLA	21422	10.37	45652	13.57	24348	18.10
1 A1259M	18990	10.37	34893	13.58	18750	18.09
3 A1259M	15654	10.37	30593	13.57	17533	18.10
4 A1263M	15240	10.37	29401	13.57	16481	18.10
5 A1263M	18428	10.37	35921	13.57	19261	18.10
6 A1218	15080	10.37	32680	13.57	17572	18.10
7 A1219	16811	10.38	38372	13.58	24079	18.10
8 A1216	16012	10.38	36333	13.59	24931	18.11
9 A1217	16167	10.38	37357	13.58	21365	18.11
10 BLANK	24580*	10.38	53437*	13.58	28534*	18.11
11 A1098	16008	10.38	38525	13.59	24739	18.11
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS1(DCB) = 1,4-Dichlorobenzene-d4  
IS2(DFB) = Naphthalene-d8  
IS3(CBZ) = Acenaphthene-d10

UPPER LIMIT = + 100%  
of internal standard area.  
LOWER LIMIT = - 50%  
of internal standard area

# Column used to flag internal standard area values with an asterisk  
\* Out of semivolatiles area limits

AR100322

130323:03

21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0780

DATE ANALYZED: 03/23/93

INSTRUMENT ID: 5970

TIME ANALYZED: 14:30

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT	AREA #	RT	AREA #	RT
12 HOUR STD	19522	21.85	13289	28.68	11100	32.13
UPPER LIMIT	39044		26578		22200	
LOWER LIMIT	9761		6645		5550	
LAB SAMPLE						
No.						
1 AQ BLA	33895	21.86	22214	28.69	18676	32.13
2 A1259M	26394	21.86	14457	28.69	12582	32.13
3 A1259M	24239	21.86	11853	28.70	9920	32.13
4 A1263M	23581	21.86	13982	28.69	11675	32.13
5 A1263M	26351	21.86	14191	28.69	12259	32.13
6 A1218	21396	21.86	10085	28.69	7977	32.14
7 A1219	34569	21.86	17791	28.71	13886	32.14
8 A1216	34625	21.87	18118	28.70	16120	32.14
9 A1217	28918	21.87	14763	28.70	12525	32.14
10 BLANK	34890	21.87	16583	28.71	15237	32.14
11 A1098	39122*	21.88	20043	28.71	18025	32.16
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4(PHN) = Phenanthrene-d10  
IS5(CRY) = Chrysene-d12  
IS6(PRY) = Perylene-d12

UPPER LIMIT = + 100%  
of internal standard area.  
LOWER LIMIT = - 50%  
of internal standard area

# Column used to flag internal standard area values with an asterisk  
\* Out of semivolatiles area limits

21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0815

DATE ANALYZED: 03/25/93

INSTRUMENT ID: 5970

TIME ANALYZED: 15:57

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS1(DCB)	RT	IS2(NPT)	RT	IS3(ANT)	RT
	AREA #		AREA #		AREA #	
12 HOUR STD	13251	10.28	34802	13.48	27324	18.00
UPPER LIMIT	26502		69604		54648	
LOWER LIMIT	6626		17401		13662	
LAB SAMPLE						
No.						
1 A BLA	17035	10.27	45717	13.47	32211	17.99
2 A BLA	19339	10.27	48831	13.47	35988	17.99
3 A1254	24122	10.27	68110	13.47	32925	17.99
4 A1102	28346*	10.27	66989	13.47	26240	17.99
5 A1103	27776*	10.27	53305	13.48	19137	17.99
6 A1099	21815	10.27	51374	13.48	23383	18.00
7 A1098	19376	10.27	46065	13.48	21735	18.00
8 A BLA	24367	10.27	56618	13.47	26394	18.00
9 A0979	23622	10.27	57748	13.47	28381	18.00
10 A1109	26666*	10.27	57700	13.47	24108	17.99
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS1(DCB) = 1,4-Dichlorobenzene-d4  
IS2(DFB) = Naphthalene-d8  
IS3(CBZ) = Acenaphthene-d10

UPPER LIMIT = + 100%  
of internal standard area.  
LOWER LIMIT = - 50%  
of internal standard area

# Column used to flag internal standard area values with an asterisk  
\* Out of semivolatiles area limits

AR100324

21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0815

DATE ANALYZED: 03/25/93

INSTRUMENT ID: 5970

TIME ANALYZED: 15:57

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT	AREA #	RT	AREA #	RT
12 HOUR STD	35053	21.75	15483	28.57	12473	32.00
UPPER LIMIT	70106		30966		24946	
LOWER LIMIT	17526		7742		6237	
LAB SAMPLE						
No.						
1 NA BLA	45397	21.74	18871	28.56	15005	32.00
2 AQ BLA	53556	21.74	22116	28.56	16748	31.99
3 A1254	36304	21.74	25688	28.56	23844	32.00
4 A1102	29939	21.75	22975	28.57	20169	32.02
5 A1103	24295	21.75	19197	28.58	16069	32.02
6 A1099	28726	21.75	22013	28.57	18273	32.01
7 A1098	27568	21.75	20371	28.58	18274	32.01
8 NA BLA	32882	21.76	23641	28.58	19288	32.01
9 A0979	37106	21.75	28794	28.58	24576	32.01
10 A1109	29092	21.75	23604	28.57	20367	32.02
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4(PHN) = Phenanthrene-d10  
IS5(CRY) = Chrysene-d12  
IS6(PRY) = Perylene-d12

UPPER LIMIT = + 100%  
of internal standard area.  
LOWER LIMIT = - 50%  
of internal standard area

# Column used to flag internal standard area values with an asterisk  
\* Out of semivolatiles area limits

21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0831

DATE ANALYZED: 03/26/93

INSTRUMENT ID: 5970

TIME ANALYZED: 10:25

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS1(DCB)	IS2(NPT)	IS3(ANT)
	AREA #	RT	AREA #
	AREA #	RT	AREA #
12 HOUR STD	28285	10.27	68184
UPPER LIMIT	56570		136368
LOWER LIMIT	14143		34092
LAB SAMPLE No.			
1	24241	10.26	64933
2	27409	10.26	70607
3	36309	10.26	92052
4	29306	10.26	71329
5	35792	10.26	89066
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

IS1(DCB) = 1,4-Dichlorobenzene-d4  
IS2(DFB) = Naphthalene-d8  
IS3(CBZ) = Acenaphthene-d10

UPPER LIMIT = + 100%  
of internal standard area.  
LOWER LIMIT = - 50%  
of internal standard area

# Column used to flag internal standard area values with an asterisk  
\* Out of semivolatiles area limits

AR100326



21st Century Environmental Inc.  
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

LAB ID FILE (STANDARD): >C0831

DATE ANALYZED: 03/26/93

INSTRUMENT ID: 5970

TIME ANALYZED: 10:25

Matrix:(soil/water)

Level:(low/med)

Column:(pack/cap)

	IS4(PHN)	RT	IS5(CRY)	RT	IS6(PRY)	RT	
	AREA #		AREA #		AREA #		
12 HOUR STD	50811	21.76	23734	28.58	19917	32.01	
UPPER LIMIT	101622		47468		39834		
LOWER LIMIT	25406		11867		9958		
LAB SAMPLE							
No.							
1	NA BLA	57804	21.74	24245	28.57	18157	32.00
2	AQ BLA	64744	21.75	28140	28.56	22241	32.01
3	AQ BLA	97302	21.75	58773*	28.57	47897*	32.00
4	BNAL01	65800	21.75	29433	28.57	22957	32.00
5	AQ BLA	97768	21.75	65270*	28.56	56866*	32.00
6							
7							
8							
9							
10							
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15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

IS4(PHN) = Phenanthrene-d10

IS5(CRY) = Chrysene-d12

IS6(PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area

# Column used to flag internal standard area values with an asterisk

\* Out of semivolatiles area limits

AR100327

## SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: 21st Century Environmental

Contract No.:

Lab Code:

Case No:

SAS No.:

SDG No.:

LAB ID FILE (BLANK): &gt;C0827

DATE ANALYZED: 03/26/93

INSTRUMENT ID: C

TIME ANALYZED: 01:33

Matrix: SOIL

Level:(low/med) LOW

Column:(pack/cap)

Date Extracted: 03/19/93

Extraction:(Sepf/Cont/Sonc) SONC

Sample ID: NA BLANK

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	A1216	>C0792	03/23/93	23:55
2	A1217	>C0793	03/24/93	00:40
3				
4				
5				
6				
7				
8				
9				
10				
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15				
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17				
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20				
21				
22				
23				
24				
25				

COMMENTS:

AR100328

21ST CENTURY Environmental  
SEMIVOLATILE ANALYSIS DATA

JOB NUMBER \_\_\_\_\_  
 SAMPLE NUMBER NA BLANK  
 CLIENT ID \_\_\_\_\_  
 DATA FILE >C0827

MATRIX Soil  
 DILUTION FACTOR 1.00  
 QA BATCH \_\_\_\_\_  
 DATE ANALYZED 03/26/93

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
N-Nitrosodimethylamine	ND	330	Acenaphthene	ND	330
Phenol	ND	330	2,4-Dinitrophenol	ND	1600
bis(-2-Chloroethyl)Ether	ND	330	4-Nitrophenol	ND	1600
2-Chlorophenol	ND	330	Dibenzofuran	ND	330
1,3-Dichlorobenzene	ND	330	2,4-Dinitrotoluene	ND	330
1,4-Dichlorobenzene	ND	330	2,6-Dinitrotoluene	ND	330
Benzyl Alcohol	ND	330	Diethylphthalate	ND	330
1,2-Dichlorobenzene	ND	330	4-Chlorophenyl-phenylether	ND	330
2-Methylphenol	ND	330	Fluorene	ND	330
bis(2-chloroisopropyl)Ether	ND	330	4-Nitroaniline	ND	1600
4-Methylphenol	ND	330	4,6-Dinitro-2-Methylphenol	ND	1600
N-Nitroso-Di-n-Propylamine	ND	330	N-Nitrosodiphenylamine	ND	330
Hexachloroethane	ND	330	4-Bromophenyl-phenylether	ND	330
Nitrobenzene	ND	330	Hexachlorobenzene	ND	330
Isophorone	ND	330	Pentachlorophenol	ND	1600
2-Nitrophenol	ND	330	Phenanthrene	ND	330
2,4-Dimethylphenol	ND	330	Anthracene	ND	330
Benzoic Acid	ND	1600	Di-n-Butylphthalate	ND	330
bis(-2-Chloroethoxy)Methane	ND	330	Fluoranthene	ND	330
2,4-Dichlorophenol	ND	330	Pyrene	ND	330
1,2,4-Trichlorobenzene	ND	330	Butylbenzylphthalate	ND	330
Naphthalene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloroaniline	ND	330	Benzo(a)Anthracene	ND	330
Hexachlorobutadiene	ND	330	Bis(2-Ethylhexyl)Phthalate	50 J	330
4-Chloro-3-Methylphenol	ND	330	Chrysene	ND	330
2-Methylnaphthalene	ND	330	Di-n-Octyl Phthalate	ND	330
Hexachlorocyclopentadiene	ND	330	Benzo(b)Fluoranthene	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo(k)Fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	1600	Benzo(a)Pyrene	ND	330
2-Chloronaphthalene	ND	330	Indeno(1,2,3-cd)Pyrene	ND	330
2-Nitroaniline	ND	1600	Dibenzo(a,h)Anthracene	ND	330
Dimethyl Phthalate	ND	330	Benzo(g,h,i)Perylene	ND	330
Acenaphthylene	ND	330	Benzidine	ND	660
3-Nitroaniline	ND	1600	Pyridine	ND	330

Percent Solid of 100. is used for all Target compounds.

- (J) Indicates detected below MDL
- (B) Indicates also present in blank
- (ND) Indicates compound not detected

AR100329

E1  
semi-VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NUMBER

NA BLANK

Matrix: (soil/water) SOIL  
Sample wt/vol: 30 (g/mL) GM  
Level: LOW  
% Moisture: 100  
Extraction: (Sepf/Cont/Sonc) SONC  
GPC ( Y or N ): N  
Column: DB-5

Lab Sample ID: NA BLANK  
Lab File ID: >C0827  
Date Received: NA  
Date Analyzed 03/26/93  
Date Extracted NA

Dilution Factor: 1

Number TICs Found 10

CONCENTRATION UNITS  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST CONC
1	UNKNOWN	25.42	330
2	UNKNOWN	26.38	130
3	UNKNOWN	27.22	470
4	UNKNOWN	27.26	230
5	UNKNOWN	28.09	300
6	UNKNOWN	28.90	270
7	UNKNOWN	29.68	230
8	UNKNOWN	30.42	300
9	UNKNOWN	30.80	170
10	UNKNOWN	31.15	170

AR100330

QUANT REPORT

Operator ID: JEFF  
 Output File: ^C0827::DA  
 Data File: >C0827::E3  
 Name: NA BLANK 031993  
 Disc: 032593

Quant Rev: 6      Quant Time: 930326 10:22  
 Injected at: 930326 01:33  
 Dilution Factor: 1.00000

BTL#12

File: ID0325::D4  
 Title: hSL BNA STD  
 Last Calibration: 930326 10:06

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *d4-1,4-Dichlorobenzene	10.27	683	24367	40.00	UG/L	95
4) 2-Fluorophenol	7.32	400	23938	71.42	UG/L	95
5) Phenol-d5	9.73	631	37350	67.70	UG/L	92
18) *d8-Naphthalene	13.47	990	56618	40.00	UG/L	90
9) Nitrobenzene-d5	11.81	831	23600	43.95	UG/L	86
3) *d10-Acenaphthene	18.00	1424	26394	40.00	UG/L	97
38) 2-Fluorobiphenyl	16.32	1263	54039	61.58	UG/L	94
53) *d10-Phenanthrene	21.76	1784	32882	40.00	UG/L	98
6) 2,4,6-Tribromophenol	20.06	1622	3528	60.77	UG/L	95
64) *d12-Chrysene	28.58	2437	23641	40.00	UG/L	96
67) Terphenyl-d14	25.91	2182	38419	57.42	UG/L	88
1) Bis(2-Ethylhexyl)Phthalate	28.74	2453	1507	1.55	UG/L	93
3) *d12-Perylene	32.01	2764	19288	40.00	UG/L	94

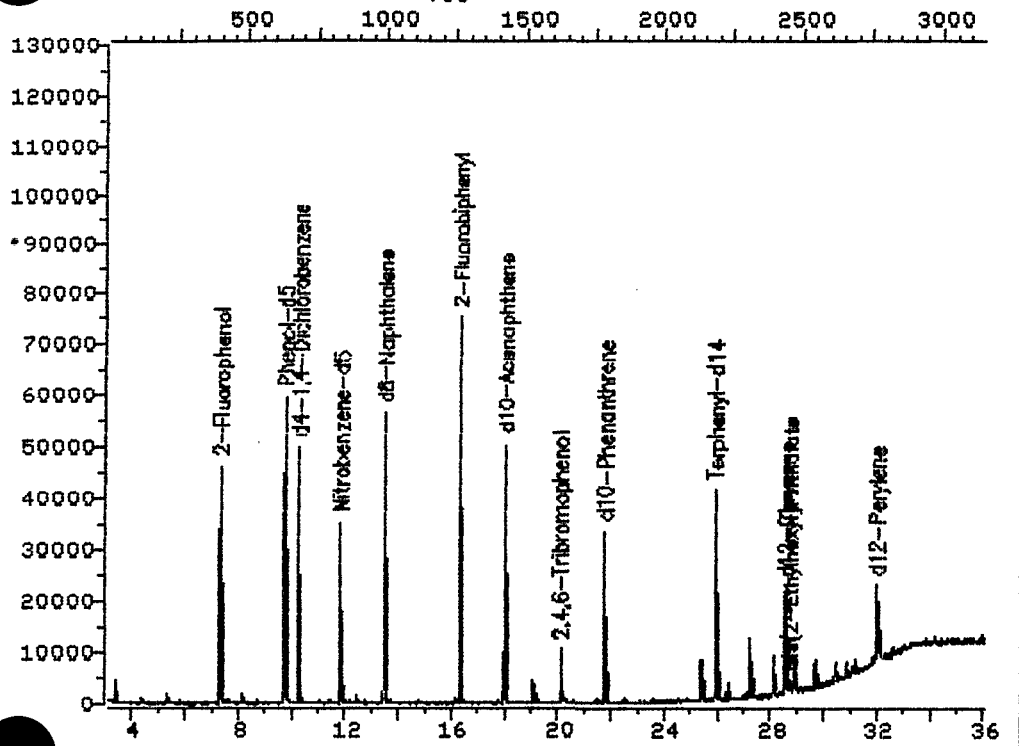
10/10/93

\* Compound is ISTD

AR100331

ION CHROMATOGRAM

>C0827 35.0-500.0 amu. NA BLANK 031993 032593  
TIC



Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593

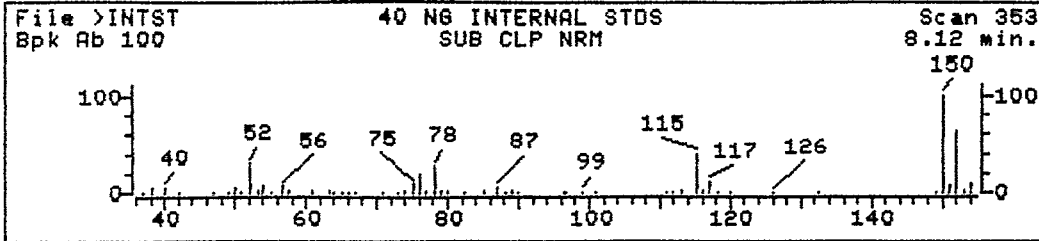
Quant Output File: ^C0827::DA

BTL#12

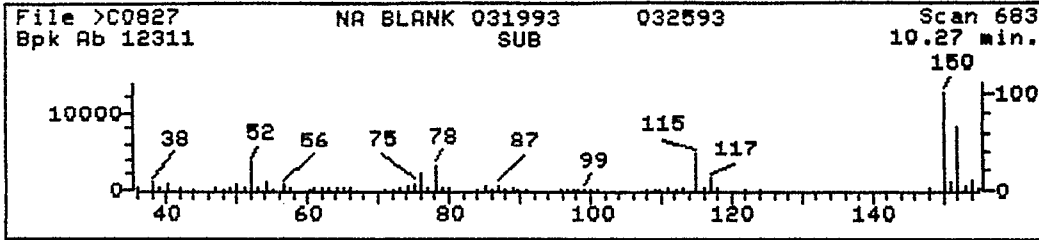
Id File: ID0325::D4  
Title: hSL BNA STD  
Last Calibration: 930326 10:06

Operator ID: JEFF  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

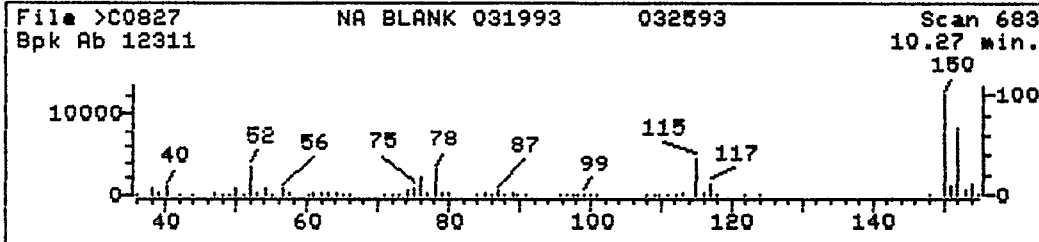
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0827::E3

Quant Output File: ^C0827::DA

Name: NA BLANK 031993

Misc: 032593

BTL#12

Quant Time: 930326 10:22

Quant ID File: ID0325::D4

Injected at: 930326 01:33

Last Calibration: 930326 10:06

Compound No: 1 (ISTD)

Compound Name: d4-1,4-Dichlorobenzene

Scan Number: 683

Retention Time: 10.27 min.

Quant Ion: 150.0

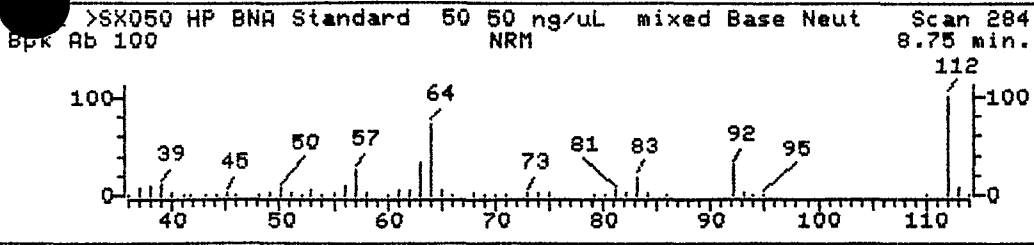
Area: 24367

Concentration: 40.00 UG/L

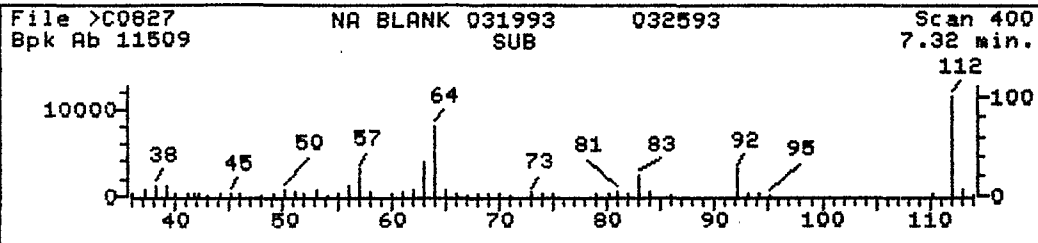
q-value: 95

AR100333

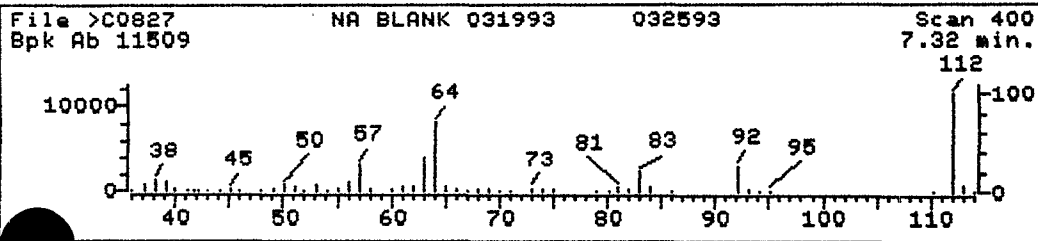
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA

BTL#12

Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

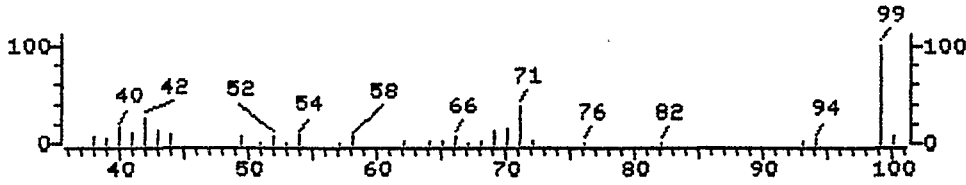
Compound No: 4  
Compound Name: 2-Fluorophenol  
Scan Number: 400  
Retention Time: 7.32 min.  
Quant Ion: 112.0  
Area: 23938  
Concentration: 71.42 UG/L  
q-value: 95

AR100334



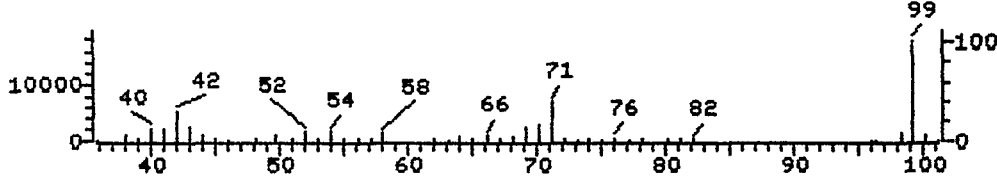
REFERENCE STANDARD SPECTRUM

File >SX050 HP BNA Standard 50 50 ng/uL mixed Base Neut Scan 427  
Bpk Ab 100 NRM 11.66 min.



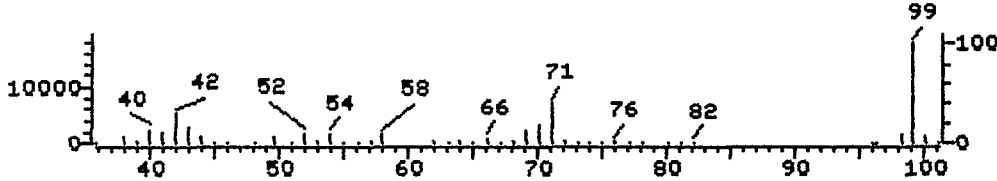
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >C0827 NA BLANK 031993 032593 Scan 631  
Bpk Ab 17736 SUB 9.73 min.



SAMPLE SPECTRUM (UNALTERED)

File >C0827 NA BLANK 031993 032593 Scan 631  
Bpk Ab 17736 9.73 min.



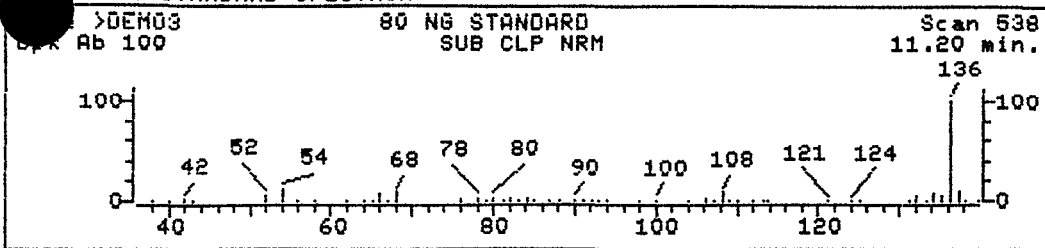
Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

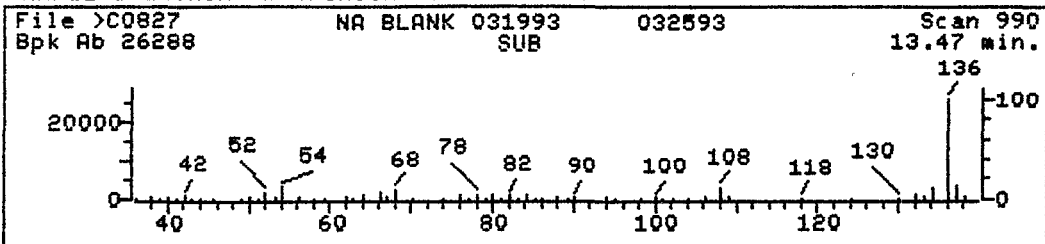
Compound No: 5  
Compound Name: Phenol-d5  
Scan Number: 631  
Retention Time: 9.73 min.  
Quant Ion: 99.0  
Area: 37350  
Concentration: 67.70 UG/L  
q-value: 92

AR100335

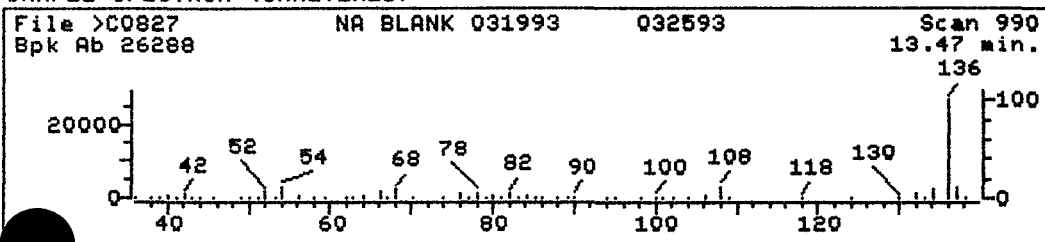
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA

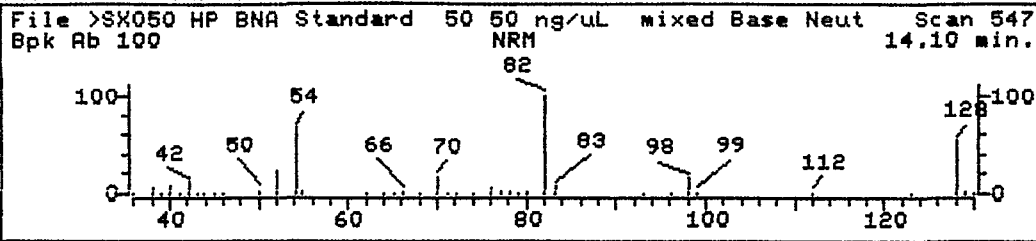
BTL#12

Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

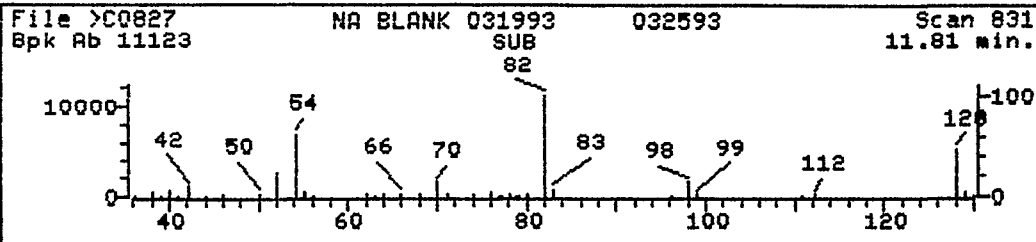
Compound No: 18 (ISTD)  
Compound Name: d8-Naphthalene  
Scan Number: 990  
Retention Time: 13.47 min.  
Quant Ion: 136.0  
Area: 56618  
Concentration: 40.00 UG/L  
q-value: 90

AR100336

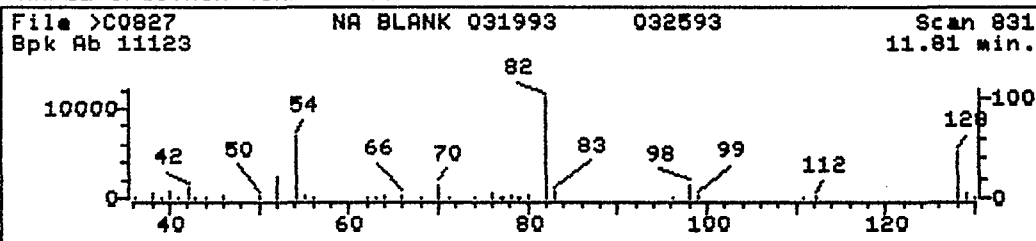
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



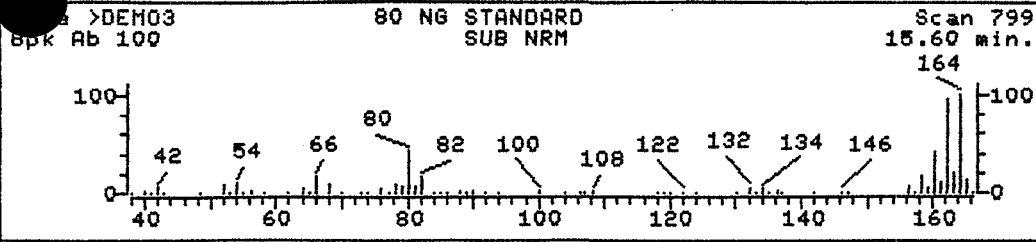
Data File: >C0827::E3  
 Name: NA BLANK 031993  
 Misc: 032593  
 Quant Time: 930326 10:22  
 Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
 BTL#12  
 Quant ID File: ID0325::D4  
 Last Calibration: 930326 10:06

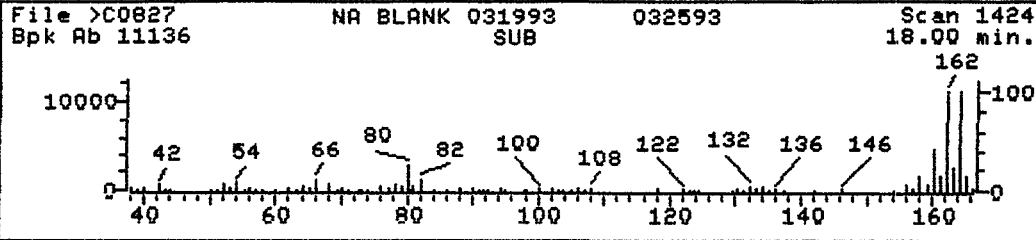
Compound No: 19  
 Compound Name: Nitrobenzene-d5  
 Scan Number: 831  
 Retention Time: 11.81 min.  
 Quant Ion: 82.0  
 Area: 23600  
 Concentration: = 43.95 UG/L  
 q-value: 86

AR100337

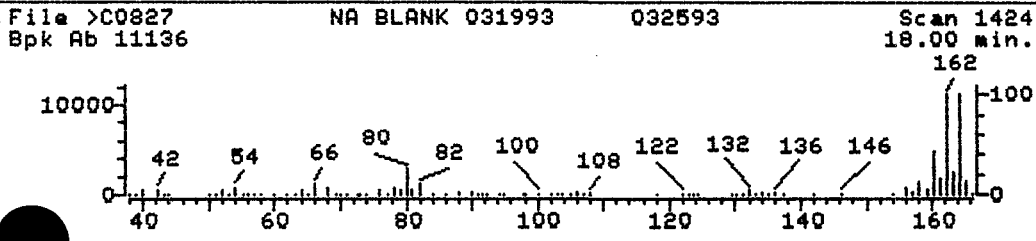
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



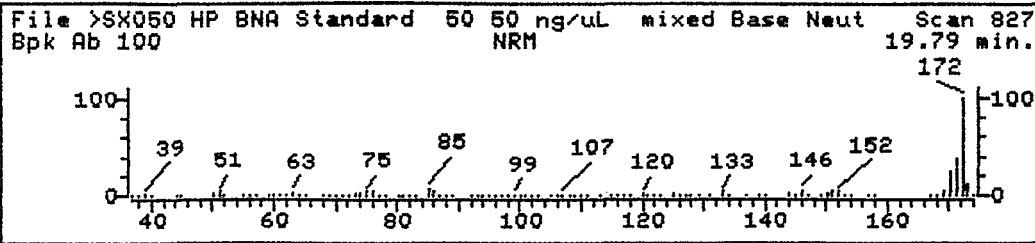
Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

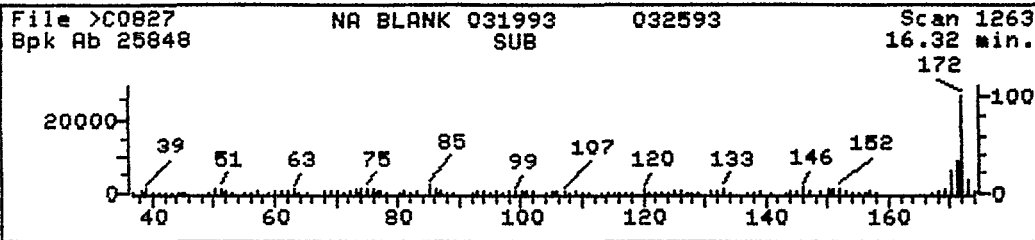
Compound No: 33 (ISTD)  
Compound Name: d10-Acenaphthene  
Scan Number: 1424  
Retention Time: 18.00 min.  
Quant Ion: 164.0  
Area: 26394  
Concentration: 40.00 UG/L  
q-value: 97

AR100338

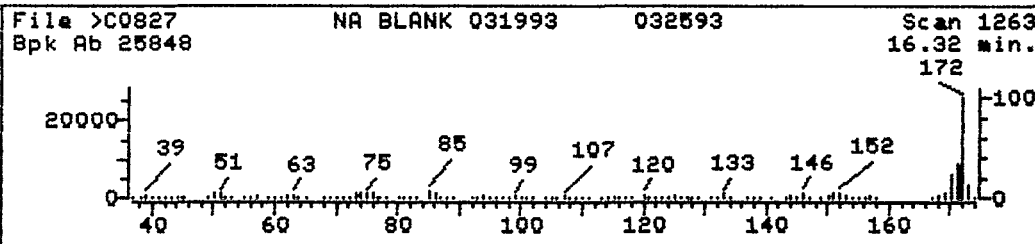
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



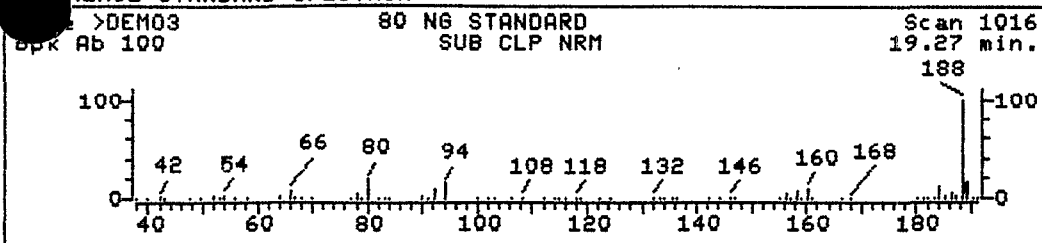
Data File: >C0827::E3  
 Name: NA BLANK 031993  
 Misc: 032593  
 Quant Time: 930326 10:22  
 Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
 BTL#12  
 Quant ID File: ID0325::D4  
 Last Calibration: 930326 10:06

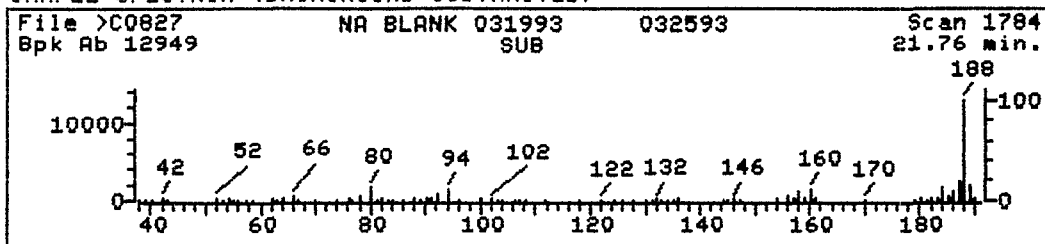
Compound No: 38  
 Compound Name: 2-Fluorobiphenyl  
 Scan Number: 1263  
 Retention Time: 16.32 min.  
 Quant Ion: 172.0  
 Area: 54039  
 Concentration: 61.58 UG/L  
 q-value: 94

AR100339

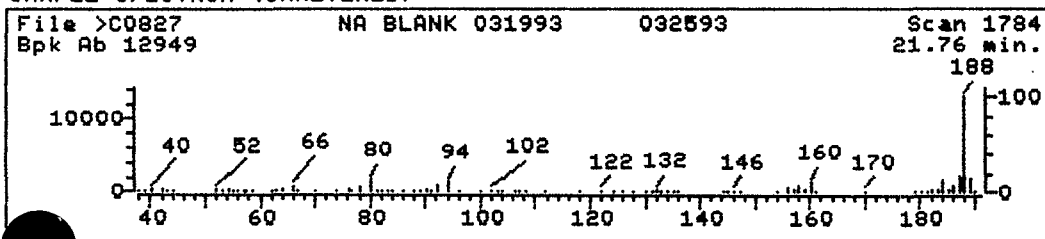
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

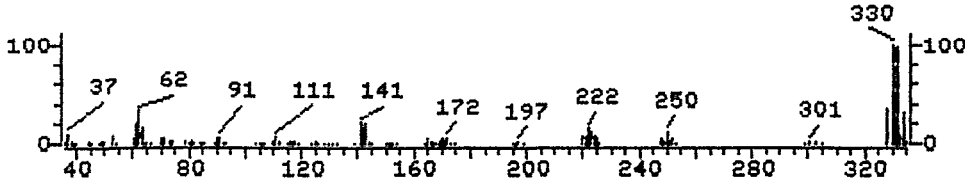
Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

Compound No: 53 (ISTD)  
Compound Name: d10-Phenanthrene  
Scan Number: 1784  
Retention Time: 21.76 min.  
Quant Ion: 188.0  
Area: 32882  
Concentration: 40.00 UG/L  
q-value: 98

AR100340

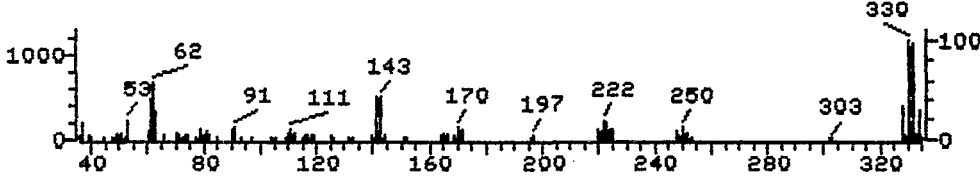
REFERENCE STANDARD SPECTRUM

File >SX050 HP BNA Standard 50 50 ng/uL mixed Base Neut Scan 1048  
Bpk Ab 100 NRM 24.28 min.



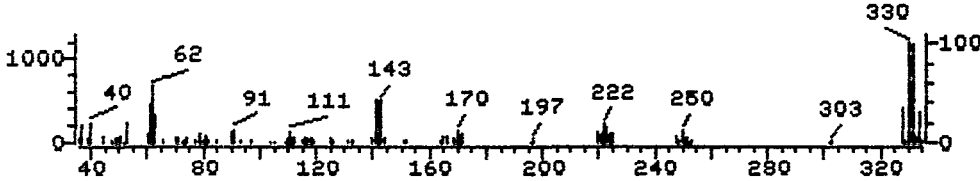
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >C0827 NA BLANK 031993 032593 Scan 1622  
Bpk Ab 1180 SUB 20.06 min.



SAMPLE SPECTRUM (UNALTERED)

File >C0827 NA BLANK 031993 032593 Scan 1622  
Bpk Ab 1180 20.06 min.



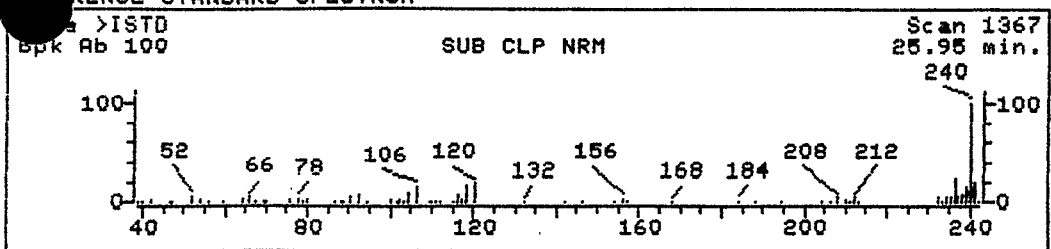
Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

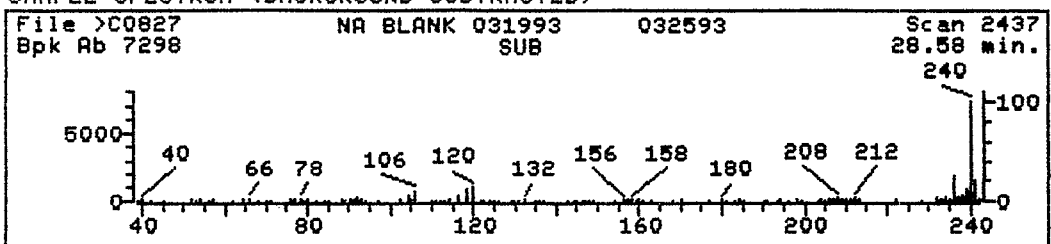
Compound No: 56  
Compound Name: 2,4,6-Tribromophenol  
Scan Number: 1622  
Retention Time: 20.06 min.  
Quant Ion: 330.0  
Area: 3528  
Concentration: 60.77 UG/L  
q-value: 95

AR100341

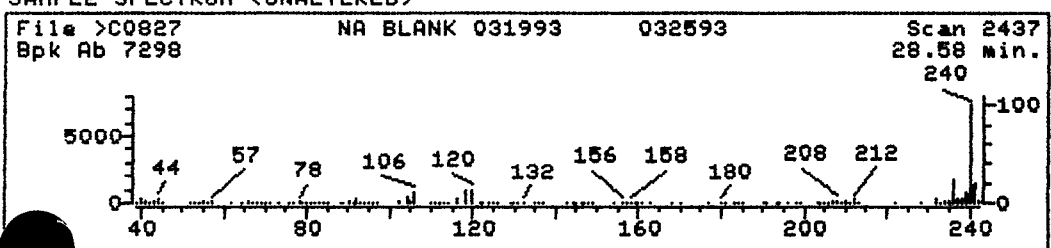
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



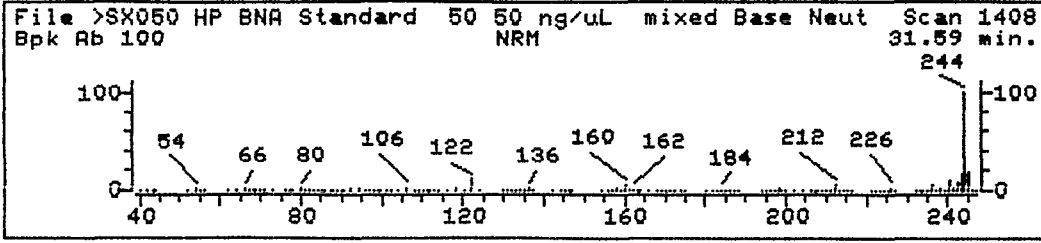
Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

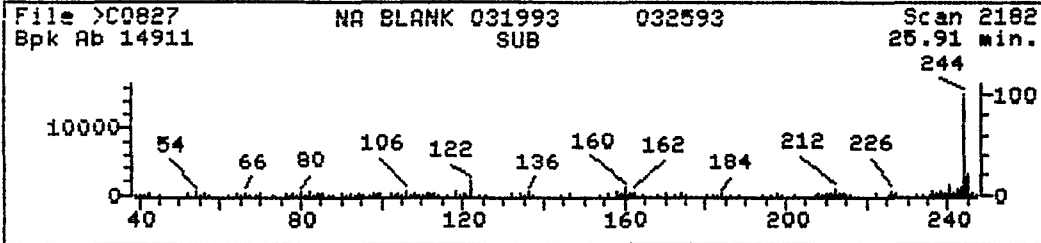
Compound No: 64 (ISTD)  
Compound Name: d12-Chrysene  
Scan Number: 2437  
Retention Time: 28.58 min.  
Quant Ion: 240.0  
Area: 23641  
Concentration: 40.00 UG/L  
q-value: 96



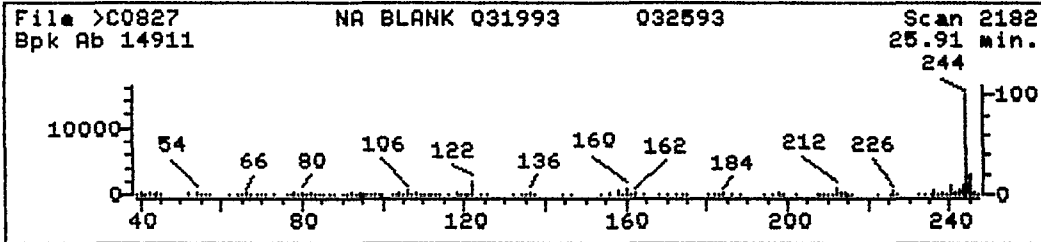
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



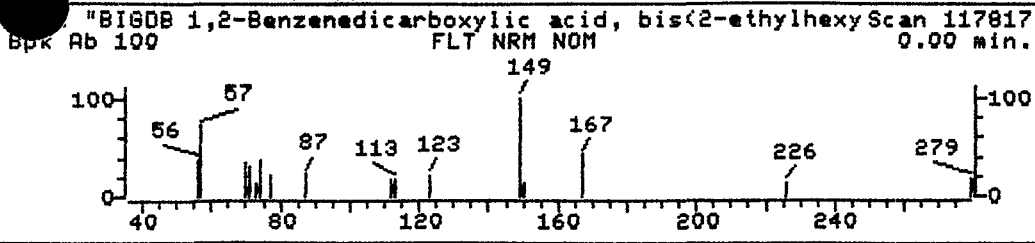
Data File: >C0827::E3  
Name: NA BLANK 031993  
Misc: 032593  
Quant Time: 930326 10:22  
Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
BTL#12  
Quant ID File: ID0325::D4  
Last Calibration: 930326 10:06

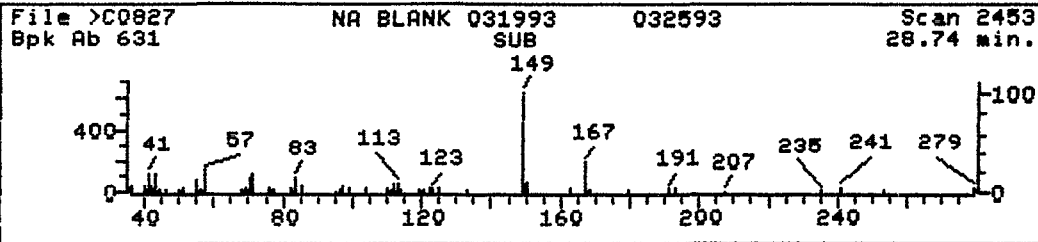
Compound No: 67  
Compound Name: Terphenyl-d14  
Scan Number: 2182  
Retention Time: 25.91 min.  
Quant Ion: 244.0  
Area: 38419  
Concentration: 57.42 UG/L  
q-value: 88

AR100343

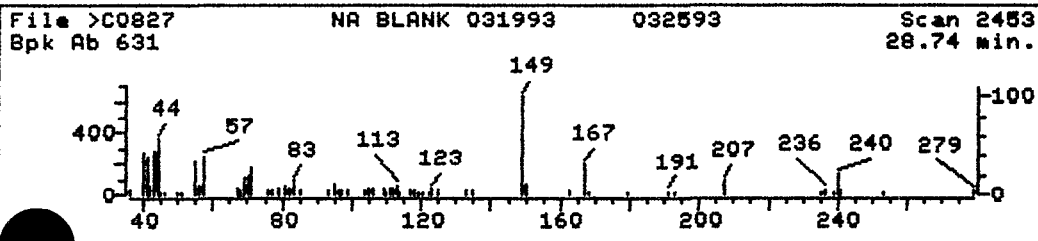
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

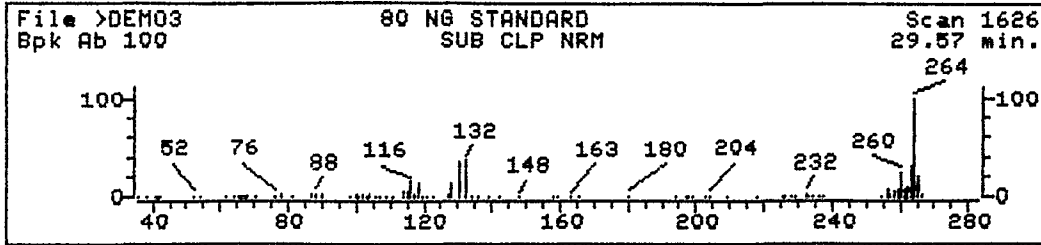


Data File: >C0827::E3  
 Name: NA BLANK 031993  
 Misc: 032593  
 Quant Time: 930326 10:22  
 Injected at: 930326 01:33

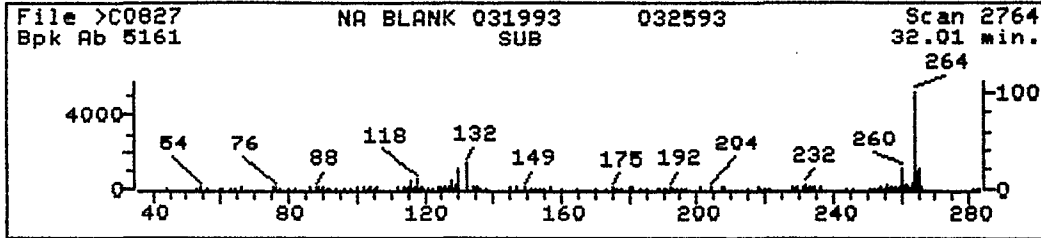
Quant Output File: ^C0827::DA  
 BTL#12  
 Quant ID File: ID0325::D4  
 Last Calibration: 930326 10:06

Compound No: 71  
 Compound Name: Bis(2-Ethylhexyl)Phthalate  
 Scan Number: 2453  
 Retention Time: 28.74 min.  
 Quant Ion: 149.0  
 Area: 1507  
 Concentration: 1.55 UG/L  
 q-value: 93

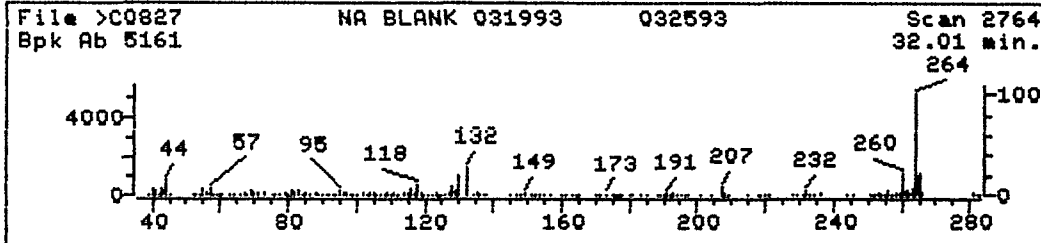
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



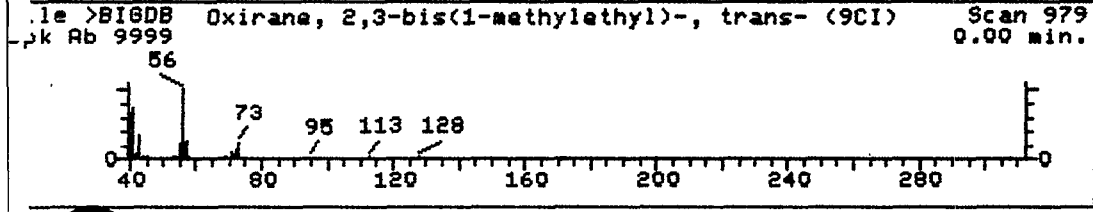
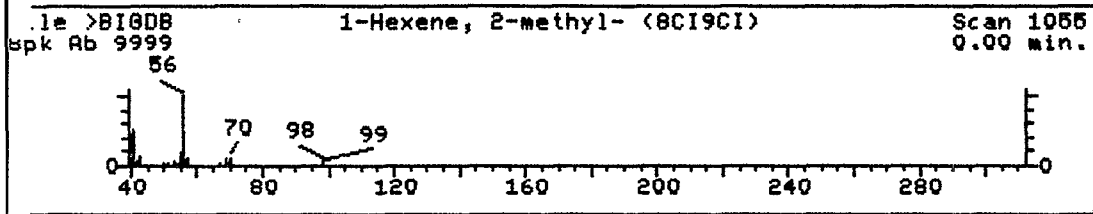
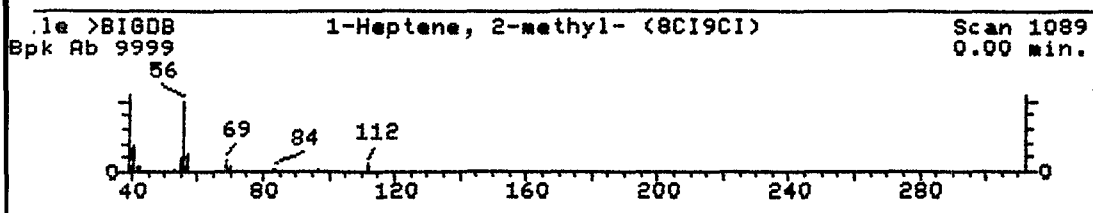
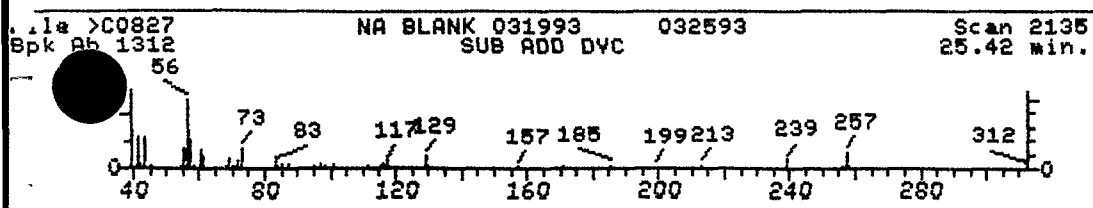
SAMPLE SPECTRUM (UNALTERED)



Data File: >C0827::E3  
 Name: NA BLANK 031993  
 Misc: 032593  
 Quant Time: 930326 10:22  
 Injected at: 930326 01:33

Quant Output File: ^C0827::DA  
 BTL#12  
 Quant ID File: ID0325::D4  
 Last Calibration: 930326 10:06

Compound No: 73 (ISTD)  
 Compound Name: d12-Perylene  
 Scan Number: 2764  
 Retention Time: 32.01 min.  
 Quant Ion: 264.0  
 Area: 19288  
 Concentration: 40.00 UG/L  
 q-value: 94



Unknown #,3  
 Area = 16627.00 Tentative Concentration is 10.00

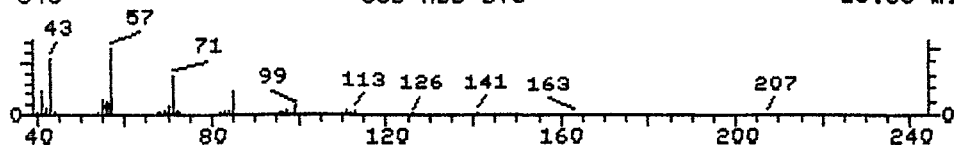
- |   |             |
|---|-------------|
| 1. 1-Heptene, 2-methyl- (8CI9CI)                  | 112 C8H16   |
| 2. 1-Hexene, 2-methyl- (8CI9CI)                   | 98 C7H14    |
| 3. Oxirane, 2,3-bis(1-methylethyl)-, trans- (9CI) | 128 C8H16O  |
| 4. Cyclobutane, ethyl- (8CI9CI)                   | 84 C6H12    |
| 5. m-Dioxane, 4,5,5-trimethyl- (8CI)              | 130 C7H14O2 |
| 6. 2-Propen-1-amine (9CI)                         | 57 C3H7N    |

Sample file: >C0827 Spectrum #: 2135  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 43

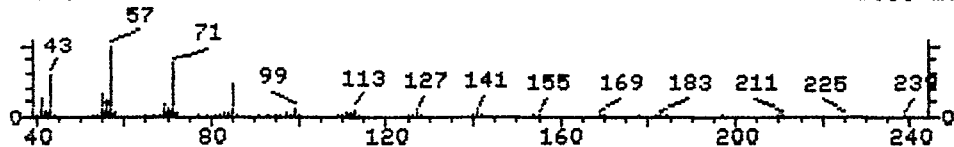
Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	25	15870107	1089	"BIGDB	34	36	1	0	96	50	7	12
2.	25*	6094026	1055	"BIGDB	38	46	2	0	83	50	7	19
3.	25	54644325	979	"BIGDB	37	49	2	0	100	50	7	12
4.	25*	4806615	963	"BIGDB	29	54	2	0	66	50	7	14
5.	25*	6301684	1075	"BIGDB	20	55	1	0	100	50	7	14
6.	25*	107119	947	"BIGDB	21	63	2	0	124	50	7	13

AR100346

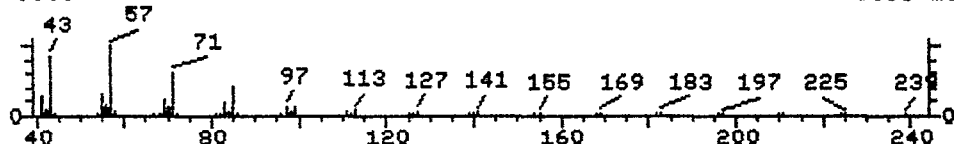
File >C0827 NA BLANK 031993 032593 Scan 2227  
 Spk Ab 648 SUB ADD DVC 26.38 min.



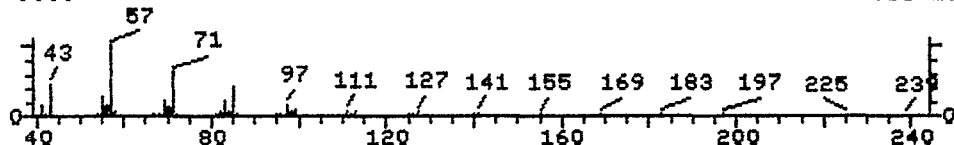
File >BIGDB Heptadecane, 2,6,10,15-tetramethyl- (9CI) Scan 6161  
 Spk Ab 9999 0.00 min.



File >BIGDB Hexatriacontane (8CI9CI) Scan 6193  
 Spk Ab 9999 0.00 min.



File >BIGDB Tritetracontane (8CI9CI) Scan 6150  
 Spk Ab 9999 0.00 min.



Unknown #,4

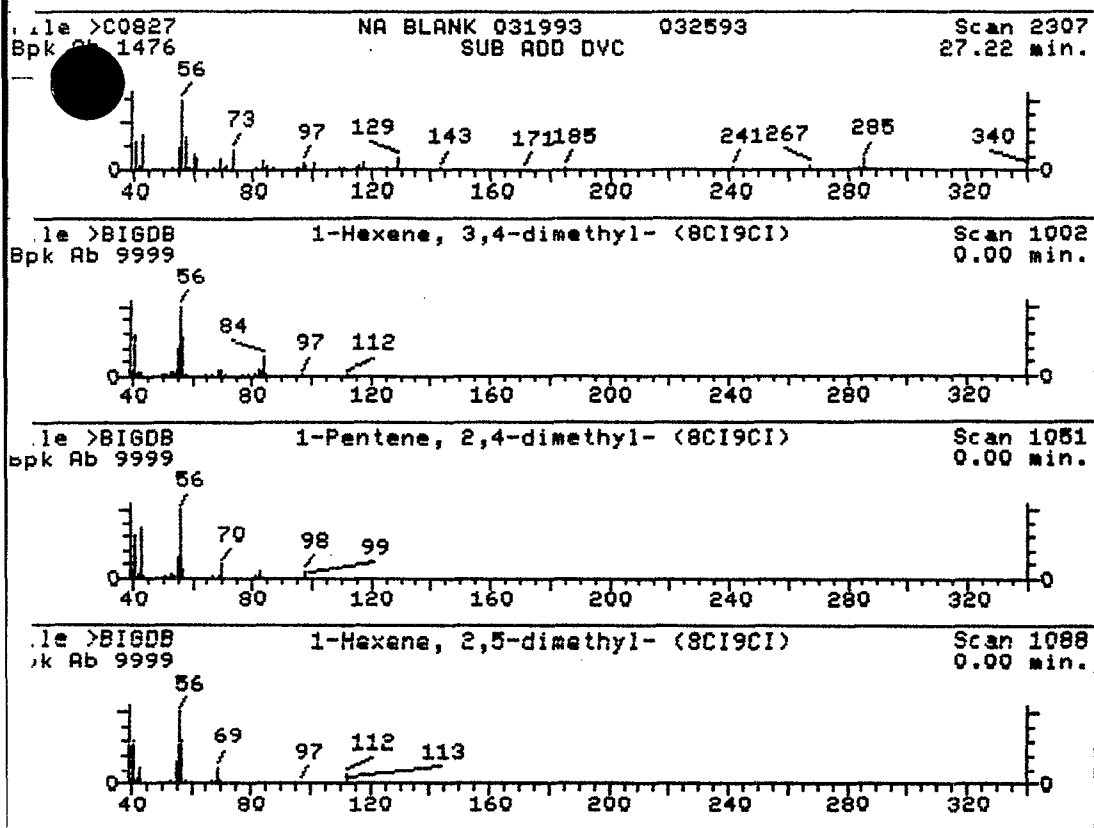
Area = 6993.00 Tentative Concentration is 4.00

- |  |            |
|--|------------|
| 1. Heptadecane, 2,6,10,15-tetramethyl- (9CI) | 296 C21H44 |
| 2. Hexatriacontane (8CI9CI)                  | 506 C36H74 |
| 3. Tritetracontane (8CI9CI)                  | 604 C43H88 |
| 4. Pentadecane (8CI9CI)                      | 212 C15H32 |
| 5. Heptadecane, 9-octyl- (8CI9CI)            | 352 C25H52 |
| 6. Heptacosane (8CI9CI)                      | 380 C27H56 |
| 7. Tetratetracontane (8CI9CI)                | 618 C44H90 |

Sample file: >C0827 Spectrum #: 2227  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76	54833486	6161	"BIGDB	84	49	2	0	79	10	45	23
2.	67	630068	6193	"BIGDB	82	80	2	0	81	15	34	22
3.	60	7098217	6150	"BIGDB	69	99	2	0	82	12	30	15
4.	60	629629	6265	"BIGDB	75	45	2	0	79	12	30	19
5.	52	7225641	6273	"BIGDB	69	74	2	0	80	17	20	15
6.	52	593497	6220	"BIGDB	63	90	2	0	82	17	20	13
7.	52	7098228	8906	"BIGDB	61	95	2	0	91	20	20	12

AR100347



Unknown #,5

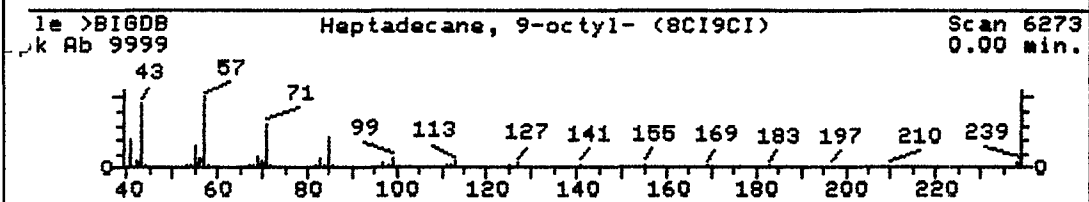
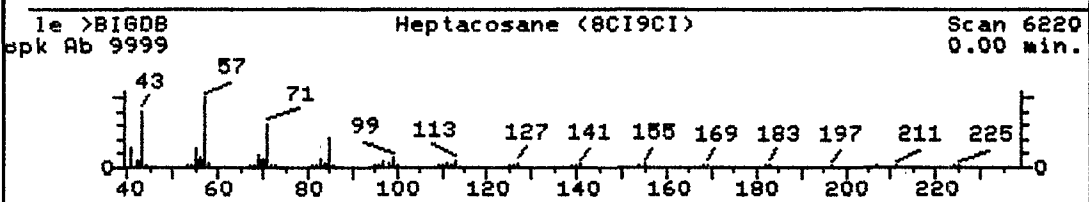
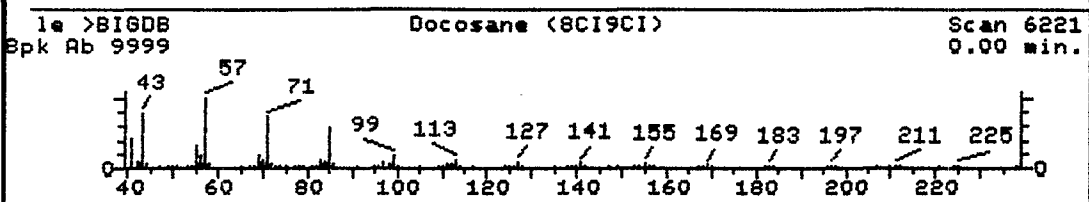
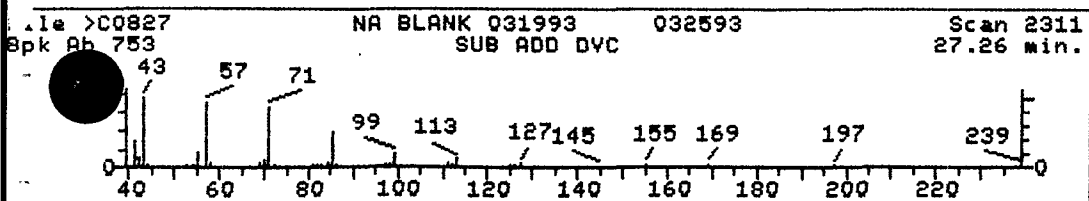
Area = 23287.00 Tentative Concentration is 14.00

- |   |            |
|---|------------|
| 1. 1-Hexene, 3,4-dimethyl- (8CI9CI)         | 112 C8H16  |
| 2. 1-Pentene, 2,4-dimethyl- (8CI9CI)        | 98 C7H14   |
| 3. 1-Hexene, 2,5-dimethyl- (8CI9CI)         | 112 C8H16  |
| 4. 1-Hexene, 2-methyl- (8CI9CI)             | 98 C7H14   |
| 5. Cyclobutane, 1-hexyl-2,3-dimethyl- (9CI) | 168 C12H24 |
| 6. Cyclobutane, ethyl- (8CI9CI)             | 84 C6H12   |
| 7. 2-Azetidinone, 3,3-dimethyl- (8CI9CI)    | 99 C5H9NO  |

Sample file: >C0827 Spectrum #: 2307  
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	16745941	1002	"BIGDB	42	48	2	0	70	45	12	22
2.	31*	2213323	1051	"BIGDB	35	51	1	0	66	45	8	19
3.	31	6975924	1088	"BIGDB	52	32	1	0	67	45	8	19
4.	29*	6094026	1055	"BIGDB	34	50	2	0	79	45	8	17
5.	27	55170848	1107	"BIGDB	46	42	2	0	100	45	8	15
6.	26*	4806615	963	"BIGDB	30	53	3	0	100	45	8	14
7.	26*	7486911	966	"BIGDB	27	58	2	0	88	45	8	14

AR100348



Unknown #,6

area = 11625.00 Tentative Concentration is 7.00

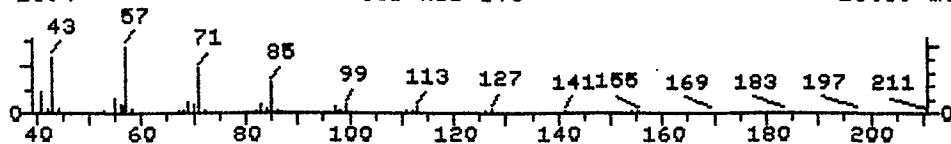
- |  |             |
|--|-------------|
| 1. Docosane (8CI9CI)                         | 310 C22H46  |
| 2. Heptacosane (8CI9CI)                      | 380 C27H56  |
| 3. Heptadecane, 9-octyl- (8CI9CI)            | 352 C25H52  |
| 4. Heptadecane, 2,6,10,15-tetramethyl- (9CI) | 296 C21H44  |
| 5. Dodecane, 1-iodo- (8CI9CI)                | 296 C12H25I |
| 6. Octane, 3-ethyl-2,7-dimethyl- (9CI)       | 170 C12H26  |
| 7. Pentane, 2,3,3-trimethyl- (8CI9CI)        | 114 C8H18   |

Sample file: >C0827 Spectrum #: 2311  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 43

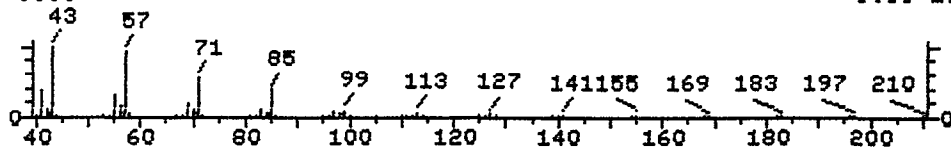
Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	78	629970	6221	"BIGDB	78	69	2	0	86	4	55	19
2.	76	593497	6220	"BIGDB	80	73	2	0	93	10	45	21
3.	70	7225641	6273	"BIGDB	72	71	3	0	93	8	42	12
4.	60	54833486	6161	"BIGDB	63	70	2	0	93	14	30	13
5.	60	4292197	6222	"BIGDB	69	60	2	0	93	13	30	15
6.	37	62183555	6108	"BIGDB	54	37	3	0	129	26	14	14
7.	36	560214	5990	"BIGDB	41	47	2	0	192	27	14	13

AR100349

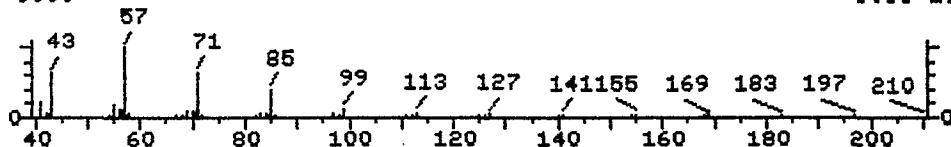
File >C0827 NA BLANK 031993 032593 Scan 2391  
 Spk Ab 1394 SUB ADD DVC 28.09 min.



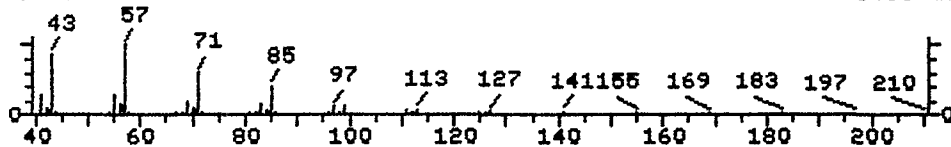
File >BIGDB Octacosane (8CI9CI) Scan 6093  
 Spk Ab 9999 0.00 min.



File >BIGDB Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene) Scan 6168  
 Spk Ab 9999 0.00 min.



File >BIGDB Pentatriacontane (8CI9CI) Scan 6147  
 Spk Ab 9999 0.00 min.



Unknown #,7

Area = 14942.00 Tentative Concentration is 9.00

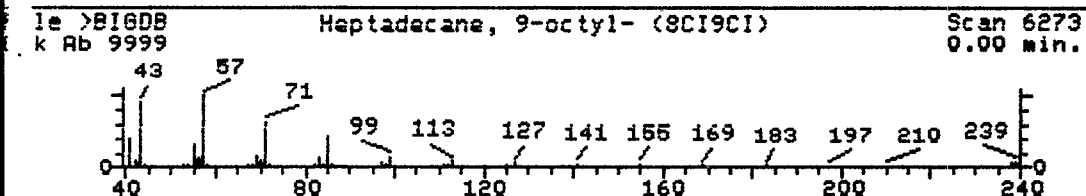
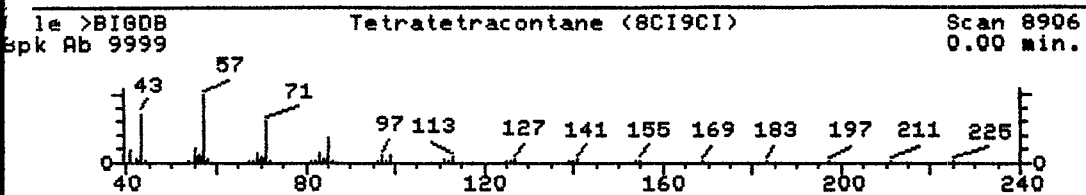
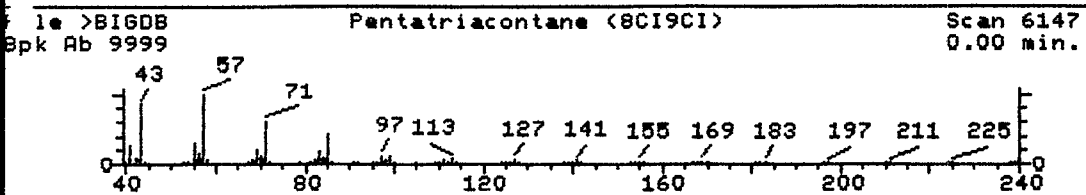
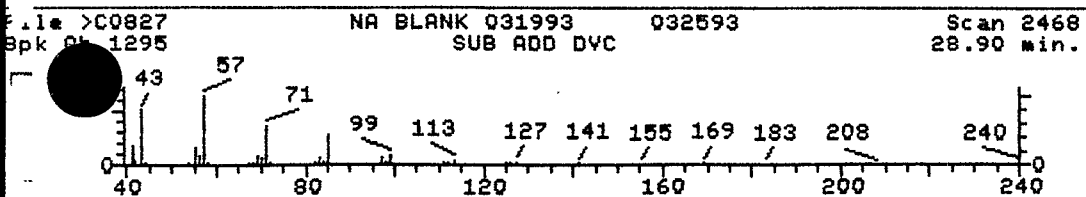
- |  |     |              |
|--|-----|--------------|
| 1. Octacosane (8CI9CI)   | 394 | C28H58       |
| 2. Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI) | 398 | C21H14FeN2O3 |
| 3. Pentatriacontane (8CI9CI)   | 492 | C35H72       |
| 4. Pentacosane (8CI9CI)  | 352 | C25H52       |
| 5. Docosane (8CI9CI)   | 310 | C22H46       |
| 6. Heneicosane, 11-(1-ethylpropyl)- (9CI)                                    | 366 | C26H54       |
| 7. Undecane, 3,8-dimethyl- (8CI)   | 184 | C13H28       |

AR100350

Sample file: >C0827 Spectrum #: 2391  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	89	630024	6093	"BIGDB	129	8	0	0	83	6	62	89
2.	87	74764117	6168	"BIGDB	105	32	2	0	100	4	63	40
3.	84	630079	6147	"BIGDB	123	28	2	0	77	8	55	60
4.	79	629992	6092	"BIGDB	102	38	2	0	84	10	48	36
5.	79	629970	6221	"BIGDB	101	46	2	0	70	10	48	35
6.	76	55282116	6162	"BIGDB	107	39	3	0	84	10	45	27
7.	76	17301303	6154	"BIGDB	74	34	2	0	82	10	45	24





Unknown #,8

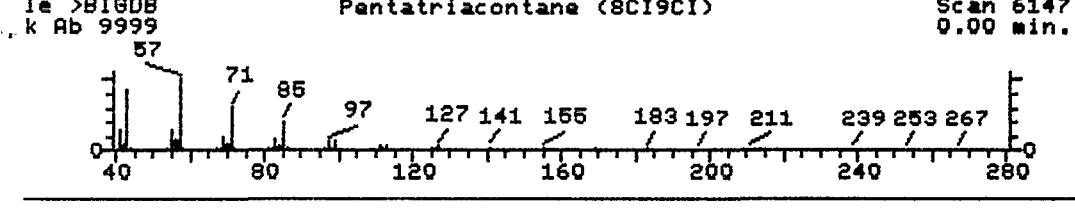
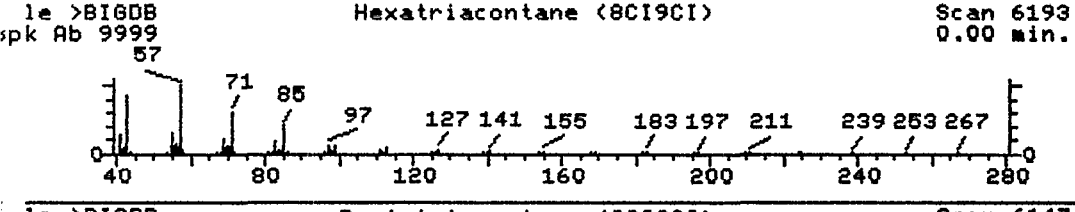
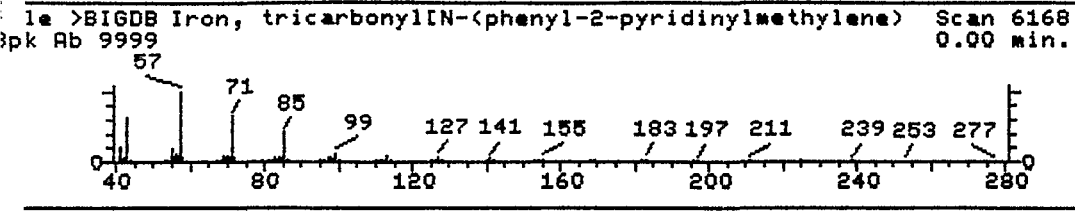
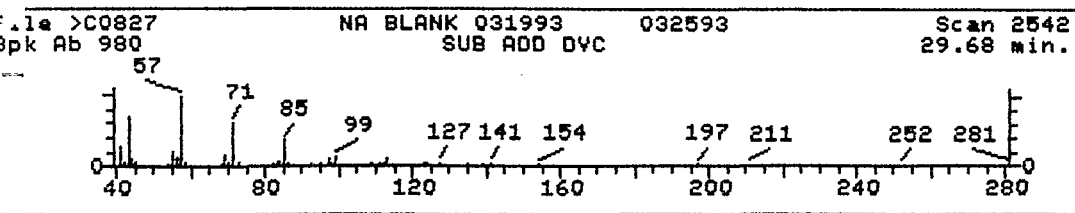
area = 14528.00 Tentative Concentration is 8.00

- |  |     |        |
|--|-----|--------|
| 1. Pentatriacontane (8CI9CI)                 | 492 | C35H72 |
| 2. Tetratetracontane (8CI9CI)                | 618 | C44H90 |
| 3. Heptadecane, 9-octyl- (8CI9CI)            | 352 | C25H52 |
| 4. Docosane (8CI9CI)                         | 310 | C22H46 |
| 5. Heptadecane, 2,6,10,15-tetramethyl- (9CI) | 296 | C21H44 |
| 6. Undecane, 3,8-dimethyl- (8CI)             | 184 | C13H28 |
| 7. Nonacosane (8CI9CI)                       | 408 | C29H60 |

Sample file: >C0827 Spectrum #: 2468  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	81	630079	6147	"BIGDB	105	46	2	0	73	8	53	40
2.	81	7098228	8906	"BIGDB	105	51	2	0	80	8	53	40
3.	76	7225641	6273	"BIGDB	94	49	2	0	82	8	45	28
4.	76	629970	6221	"BIGDB	83	64	2	0	73	10	45	23
5.	74	54833486	6161	"BIGDB	106	27	2	0	69	14	39	42
6.	71	17301303	6154	"BIGDB	81	27	2	0	79	14	38	30
7.	71	630035	8905	"BIGDB	98	47	2	0	80	12	38	31

AR100351



Unknown #,9  
 Area = 12027.00 Tentative Concentration is 7.00

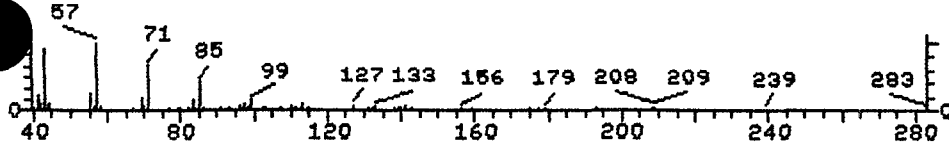
- |  |     |              |
|--|-----|--------------|
| 1. Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI) | 398 | C21H14FeN2O3 |
| 2. Hexatriacontane (8CI9CI)  | 506 | C36H74       |
| 3. Pentatriacontane (8CI9CI)   | 492 | C35H72       |
| 4. Heptadecane, 2,6,10,15-tetramethyl- (9CI)                                 | 296 | C21H44       |
| 5. Pentadecane, 8-hexyl- (8CI)   | 296 | C21H44       |
| 6. Eicosane, 7-hexyl- (9CI)  | 366 | C26H54       |
| 7. Tetratetracontane (8CI9CI)  | 618 | C44H90       |

AR100352

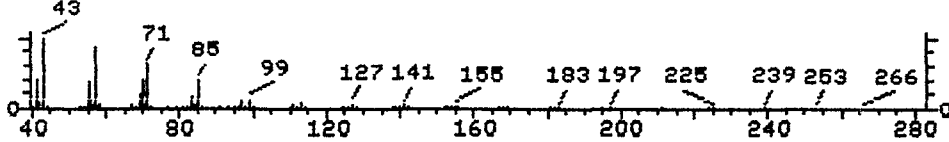
Sample file: >C0827 Spectrum #: 2542  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76	74764117	6168	"BIGDB	84	53	2	0	91	10	45	23
2.	74	630068	6193	"BIGDB	89	73	1	0	64	12	39	46
3.	71	630079	6147	"BIGDB	101	50	2	0	77	12	38	35
4.	71	54833486	6161	"BIGDB	82	51	1	0	70	15	38	35
5.	70	13475757	24006	"BIGDB	80	57	3	0	72	10	42	14
6.	67	55333998	6285	"BIGDB	89	56	2	0	77	12	34	26
7.	67	7098228	8906	"BIGDB	92	64	2	0	79	12	34	27

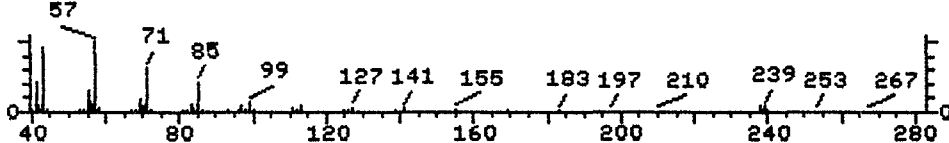
File >C0827 NA BLANK 031993 032593 Scan 2613  
 Spk Ab 608 SUB ADD DVC 30.42 min.



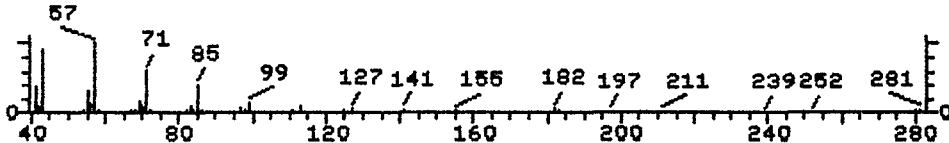
le >BIGDB Heneicosane, 11-(1-ethylpropyl)- (9CI) Scan 6162  
 Spk Ab 9999 0.00 min.



le >BIGDB Heptadecane, 9-octyl- (8CI9CI) Scan 6273  
 Spk Ab 9999 0.00 min.



le >BIGDB Eicosane, 7-hexyl- (9CI) Scan 6285  
 Spk Ab 9999 0.00 min.



Unknown #,10

area = 11998.00 Tentative Concentration is 9.00

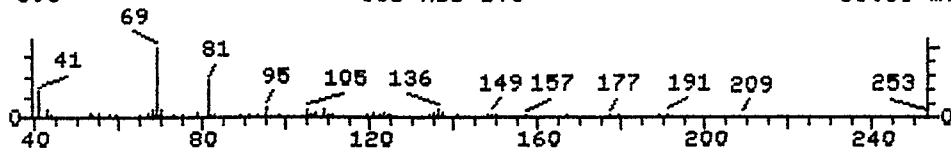
- |   |     |        |
|---|-----|--------|
| 1. Heneicosane, 11-(1-ethylpropyl)- (9CI) | 366 | C26H54 |
| 2. Heptadecane, 9-octyl- (8CI9CI)         | 352 | C25H52 |
| 3. Eicosane, 7-hexyl- (9CI)               | 366 | C26H54 |
| 4. Tetratetracontane (8CI9CI)             | 618 | C44H90 |
| 5. Pentatriacontane (8CI9CI)              | 492 | C35H72 |
| 6. Heptadecane (8CI9CI)                   | 240 | C17H36 |
| 7. Heptacosane (8CI9CI)                   | 380 | C27H56 |

Sample file: >C0827 Spectrum #: 2613  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 48

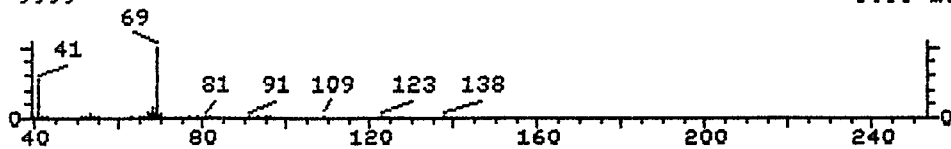
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	55282116	6162	"BIGDB	89	57	2	0	89	20	25	26
2.	58	7225641	6273	"BIGDB	83	60	2	0	97	20	25	23
3.	58	55333998	6285	"BIGDB	82	63	2	0	95	20	25	22
4.	58	7098228	8906	"BIGDB	87	69	2	0	100	20	25	25
5.	58	630079	6147	"BIGDB	84	67	2	0	98	20	25	23
6.	52	629787	6090	"BIGDB	60	61	2	0	100	20	20	12
7.	52	593497	6220	"BIGDB	74	79	2	0	100	20	20	18

AR100353

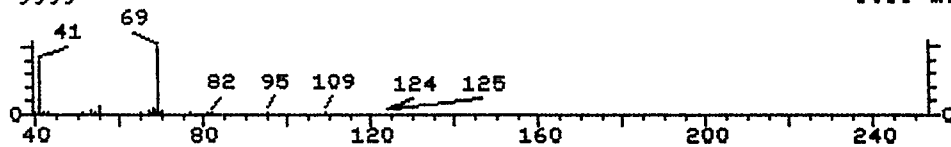
File >C0827 NA BLANK 031993 032593 Scan 2649  
 Bpk Ab 695 SUB ADD DVC 30.80 min.



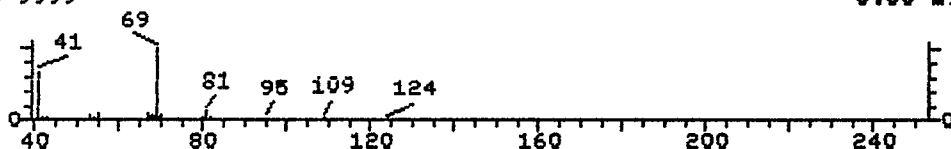
File >BIGDB 2,6-Octadiene, 4,5-dimethyl- (8CI9CI) Scan 3411  
 Bpk Ab 9999 0.00 min.



File >BIGDB 2,6-Octadiene, 4-methyl- (9CI) Scan 3425  
 Bpk Ab 9999 0.00 min.



File >BIGDB 1,5-Heptadiene, 3,3-dimethyl-, (E)- (9CI) Scan 3416  
 Bpk Ab 9999 0.00 min.



Unknown #,11

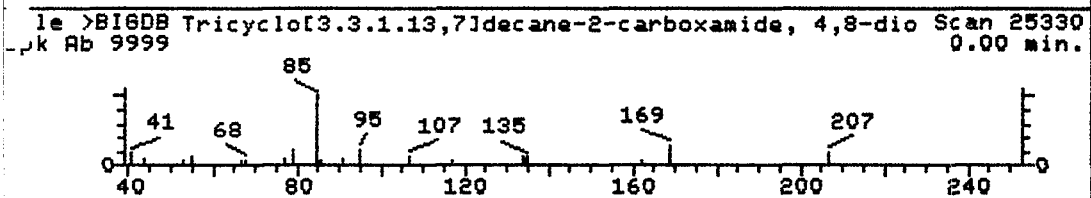
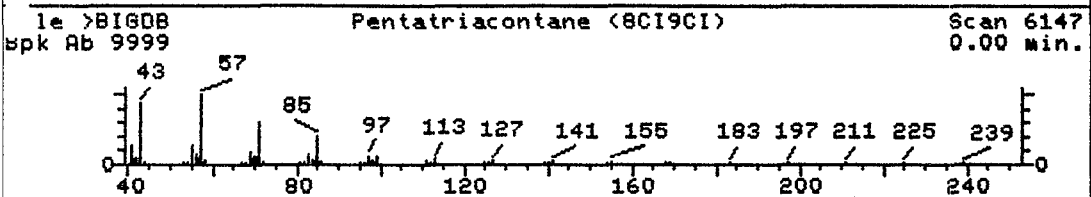
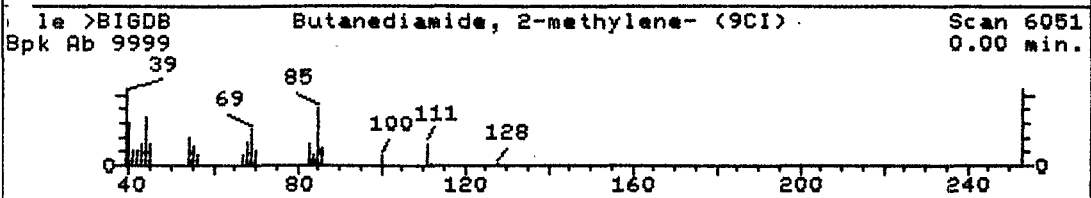
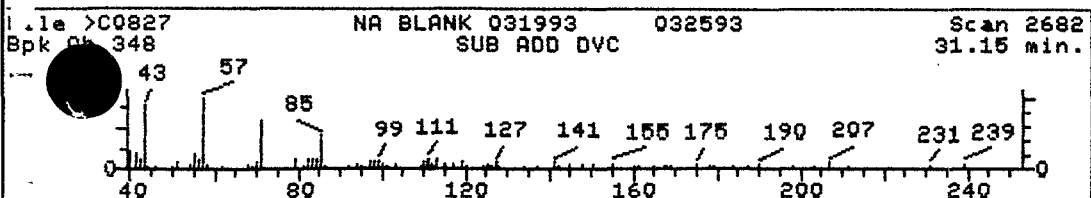
Area = 5771.00 Tentative Concentration is 5.00

- |    |   |               |
|----|---|---------------|
| 1. | 2,6-Octadiene, 4,5-dimethyl- (8CI9CI)           | 138 C10H18    |
| 2. | 2,6-Octadiene, 4-methyl- (9CI)                  | 124 C9H16     |
| 3. | 1,5-Heptadiene, 3,3-dimethyl-, (E)- (9CI)       | 124 C9H16     |
| 4. | Cyclopentane, bromo- (8CI9CI)                   | 148 C5H9Br    |
| 5. | Oxazole (8CI9CI)                                | 69 C3H3NO     |
| 6. | Silane, trichloro(2-methyl-2-butenyl)- (8CI9CI) | 202 C5H9Cl3Si |
| 7. | 1,5-Heptadiene, 3,6-dimethyl- (9CI)             | 124 C9H16     |

Sample file: >C0827 Spectrum #: 2649  
 Search speed: 1 Tilting option: N No. of ion ranges searched: 58

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	35	18476578	3411	"BIGDB	34	39	0	0	68	31	12	18
2.	34*	74498945	3425	"BIGDB	32	46	1	0	95	31	12	17
3.	32*	67682477	3416	"BIGDB	30	47	2	0	100	31	12	15
4.	32*	137439	3404	"BIGDB	30	30	2	0	71	31	12	15
5.	30*	288426	3406	"BIGDB	21	24	2	0	100	31	12	13
6.	30	18163570	3454	"BIGDB	39	44	2	0	69	31	12	13
7.	30*	34891106	3415	"BIGDB	27	56	3	0	100	31	12	13

AR100354



Unknown #,12

Area = 6001.00 Tentative Concentration is 5.00

- |  |     |           |
|--|-----|-----------|
| 1. Butanediamide, 2-methylene- (9CI)                           | 128 | C5H8N2O2  |
| 2. Pentatriacontane (8CI9CI)                                   | 492 | C35H72    |
| 3. Tricyclo[3.3.1.1.3,7]decane-2-carboxamide, 4,8-dioxo- (9CI) | 207 | C11H13NO3 |
| 4. Cyclobutanone, oxime (8CI9CI)                               | 85  | C4H7NO    |
| 5. Pentacosane (8CI9CI)  | 352 | C25H52    |
| 6. Undecane, 2,4-dimethyl- (8CI9CI)                            | 184 | C13H28    |
| 7. Heptadecane, 9-octyl- (8CI9CI)                              | 352 | C25H52    |

AR100355

Sample file: >C0827 Spectrum #: 2682  
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1	24*	3786296	6051	"BIGDB	22	105	3	0	58	42	8	12
2	20	630079	6147	"BIGDB	71	80	3	0	100	52	5	12
3	20*	56782742	25330	"BIGDB	35	69	3	0	47	52	5	13
4	20*	2972056	5957	"BIGDB	27	69	2	0	69	52	5	14
5	20	629992	6092	"BIGDB	77	63	2	0	83	54	5	19
6	18*	17312800	6157	"BIGDB	47	61	1	0	64	59	4	24
7	18	7225641	6273	"BIGDB	81	62	2	0	79	57	4	22



21ST CENTURY Environmental  
SEMIVOLATILE ANALYSIS DATA

JOB NUMBER \_\_\_\_\_  
 SAMPLE NUMBER           AQ BLANK            
 CLIENT ID \_\_\_\_\_  
 DATA FILE           >C0843          

MATRIX           Water            
 DILUTION FACTOR           1.00            
 QA BATCH \_\_\_\_\_  
 DATE ANALYZED           03/26/93          

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
N-Nitrosodimethylamine	ND	10	Acenaphthene	ND	10
Phenol	ND	10	2,4-Dinitrophenol	ND	50
bis(-2-Chloroethyl)Ether	ND	10	4-Nitrophenol	ND	50
2-Chlorophenol	ND	10	Dibenzofuran	ND	10
1,3-Dichlorobenzene	ND	10	2,4-Dinitrotoluene	ND	10
1,4-Dichlorobenzene	ND	10	2,6-Dinitrotoluene	ND	10
Benzyl Alcohol	ND	10	Diethylphthalate	ND	10
1,2-Dichlorobenzene	ND	10	4-Chlorophenyl-phenylether	ND	10
2-Methylphenol	ND	10	Fluorene	ND	10
bis(2-chloroisopropyl)Ether	ND	10	4-Nitroaniline	ND	50
4-Methylphenol	ND	10	4,6-Dinitro-2-Methylphenol	ND	50
N-Nitroso-Di-n-Propylamine	ND	10	N-Nitrosodiphenylamine	ND	10
Hexachloroethane	ND	10	4-Bromophenyl-phenylether	ND	10
Nitrobenzene	ND	10	Hexachlorobenzene	ND	10
Isophorone	ND	10	Pentachlorophenol	ND	50
2-Nitrophenol	ND	10	Phenanthrene	ND	10
2,4-Dimethylphenol	ND	10	Anthracene	ND	10
Benzoic Acid	ND	50	Di-n-Butylphthalate	ND	10
bis(-2-Chloroethoxy)Methane	ND	10	Fluoranthene	ND	10
2,4-Dichlorophenol	ND	10	Pyrene	ND	10
1,2,4-Trichlorobenzene	ND	10	Butylbenzylphthalate	ND	10
Naphthalene	ND	10	3,3'-Dichlorobenzidine	ND	20
4-Chloroaniline	ND	10	Benzo(a)Anthracene	ND	10
Hexachlorobutadiene	ND	10	Bis(2-Ethylhexyl)Phthalate	ND	10
4-Chloro-3-Methylphenol	ND	10	Chrysene	ND	10
2-Methylnaphthalene	ND	10	Di-n-Octyl Phthalate	ND	10
Hexachlorocyclopentadiene	ND	10	Benzo(b)Fluoranthene	ND	10
2,4,6-Trichlorophenol	ND	10	Benzo(k)Fluoranthene	ND	10
2,4,5-Trichlorophenol	ND	50	Benzo(a)Pyrene	ND	10
2-Chloronaphthalene	ND	10	Indeno(1,2,3-cd)Pyrene	ND	10
2-Nitroaniline	ND	50	Dibenzo(a,h)Anthracene	ND	10
Dimethyl Phthalate	ND	10	Benzo(g,h,i)Perylene	ND	10
Acenaphthylene	ND	10	Benzdine	ND	20
3-Nitroaniline	ND	50	Pyridine	ND	10

(J) Indicates detected below MDL  
 (B) Indicates also present in blank  
 (ND) Indicates compound not detected

AR100357

E1  
semi-VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NUMBER

AQ BLANK

Matrix: (soil/water) WATER  
Sample wt/vol: 1000 (g/mL) ML  
Level: LOW  
% Moisture: 100  
Extraction: (Sepf/Cont/Sonc) SEPF  
GPC ( Y or N ): N  
Column: DB-5  
Number TICs Found 0

Lab Sample ID: AQ BLANK  
Lab File ID: >C0843  
Date Received: NA  
Date Analyzed 03/26/93  
Date Extracted NA  
Dilution Factor: 1  
CONCENTRATION UNITS  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC
	NO UNKNOWN IDENTIFIED		

AR100358



QUANT REPORT

Operator ID: JEFF  
 Output File: ^C0843::ED  
 Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML

Quant Rev: 6 Quant Time: 930326 20:38  
 Injected at: 930326 19:59  
 Dilution Factor: 1.00000

BTL# 8

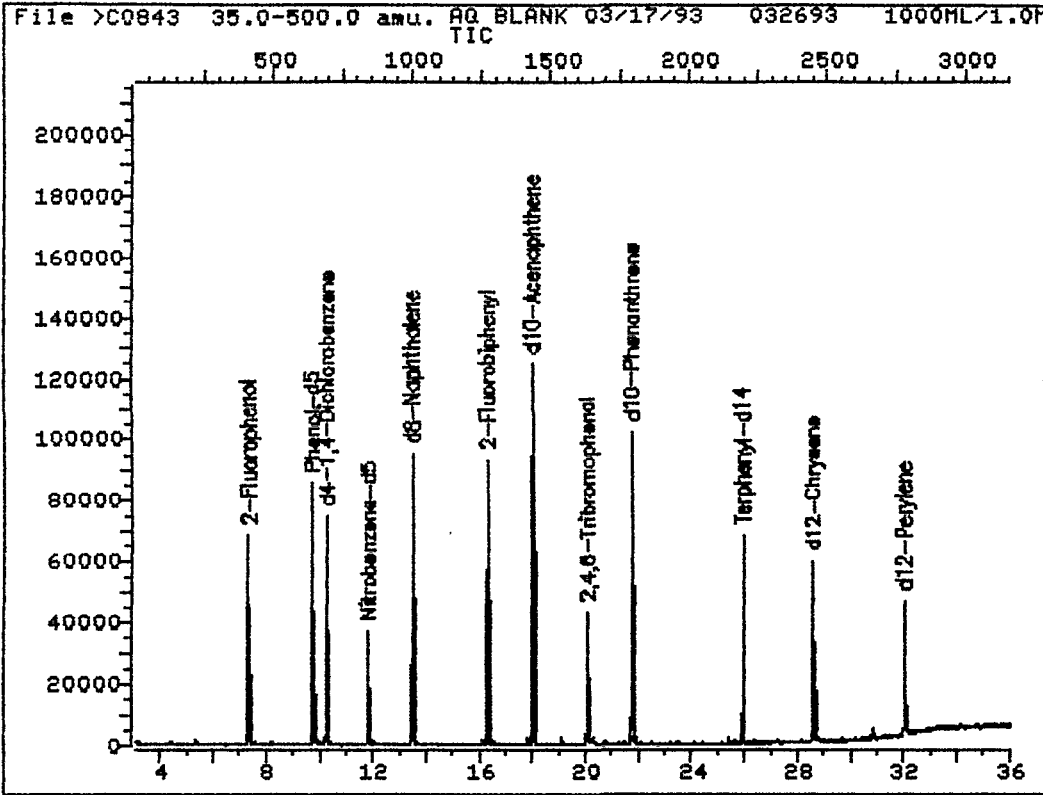
LD File: ID0326::D4  
 Title: hSL BNA STD  
 Last Calibration: 930326 14:55

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *d4-1,4-Dichlorobenzene	10.26	689	36309	40.00	UG/L	97
4) 2-Fluorophenol	7.31	406	34798	69.07	UG/L	93
5) Phenol-d5	9.71	636	51947	67.10	UG/L	91
8) *d8-Naphthalene	13.47	996	92052	40.00	UG/L	88
9) Nitrobenzene-d5	11.81	837	26079	31.61	UG/L	86
33) *d10-Acenaphthene	17.99	1429	63234	40.00	UG/L	93
78) 2-Fluorobiphenyl	16.31	1268	66081	30.98	UG/L	95
3) *d10-Phenanthrene	21.75	1789	97302	40.00	UG/L	98
26) 2,4,6-Tribromophenol	20.06	1627	10771	54.06	UG/L	91
64) *d12-Chrysene	28.57	2442	58773	40.00	UG/L	96
7) Terphenyl-d14	25.90	2187	58986	36.49	UG/L	89
3) *d12-Perylene	32.00	2770	47897	40.00	UG/L	94

\* Compound is ISTD

AR100359

TOTAL ION CHROMATOGRAM



Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML

Quant Output File: ^C0843::ED

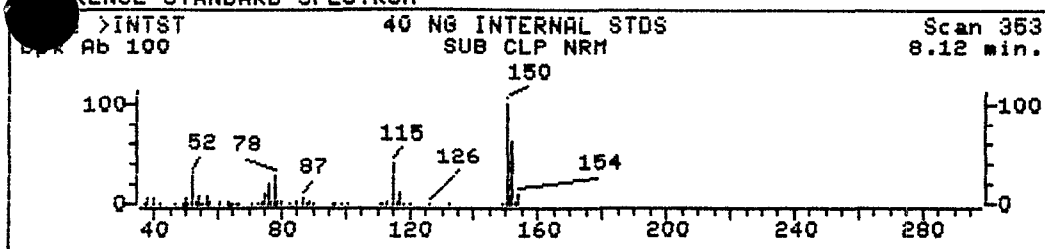
BTL# 8

Id File: ID0326::D4  
Title: hSL BNA STD  
Last Calibration: 930326 14:55

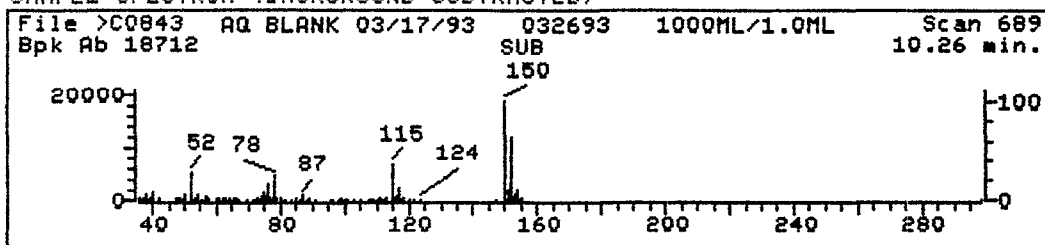
Operator ID: JEFF  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

AR100360

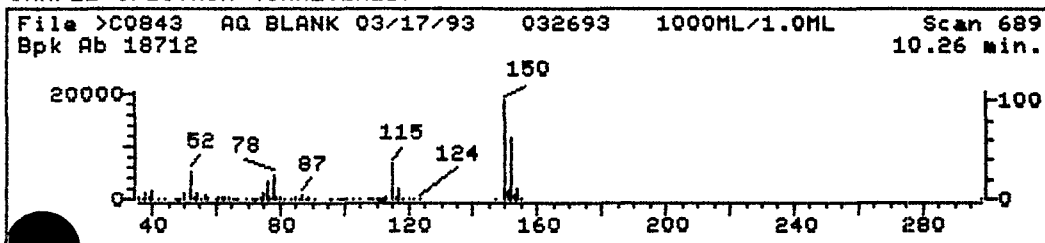
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



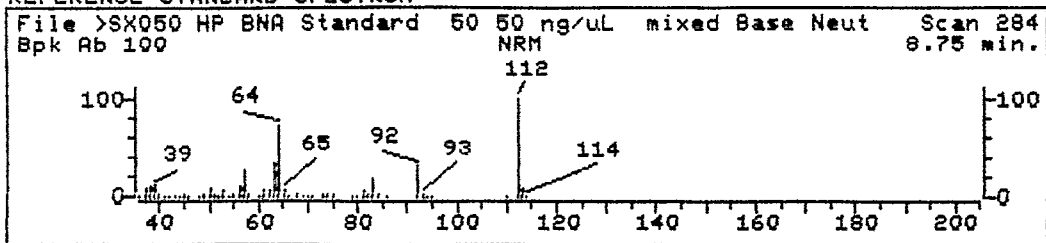
Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

Quant Output File: ^C0843::ED  
BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

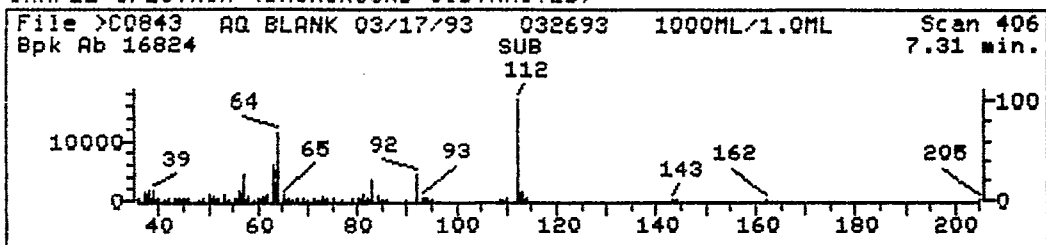
Compound No: 1 (ISTD)  
Compound Name: d4-1,4-Dichlorobenzene  
Scan Number: 689  
Retention Time: 10.26 min.  
Quant Ion: 150.0  
Area: 36309  
Concentration: 40.00 UG/L  
q-value: 97

AR100361

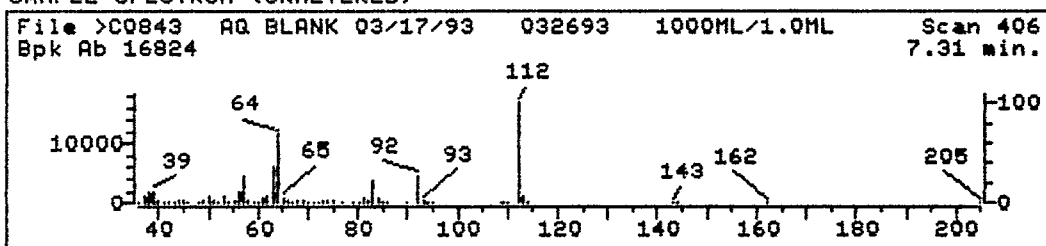
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML  
 Quant Time: 930326 20:38  
 Injected at: 930326 19:59

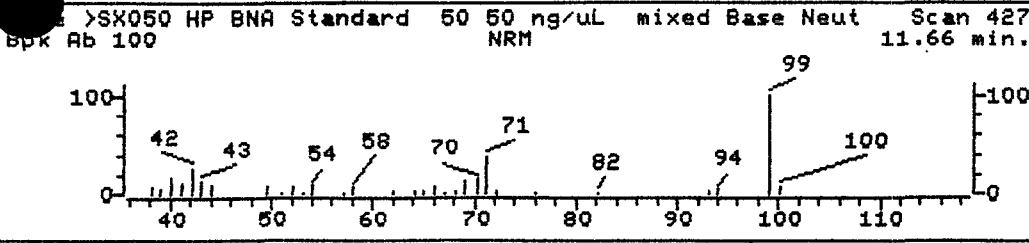
Quant Output File: ^C0843::ED

BTL# 8  
 Quant ID File: ID0326::D4  
 Last Calibration: 930326 14:55

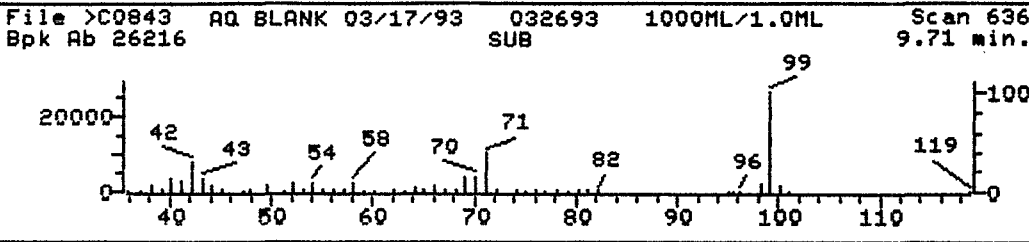
Compound No: 4  
 Compound Name: 2-Fluorophenol  
 Scan Number: 406  
 Retention Time: 7.31 min.  
 Quant Ion: 112.0  
 Area: 34798  
 Concentration: 69.07 UG/L  
 q-value: 93

AR100362

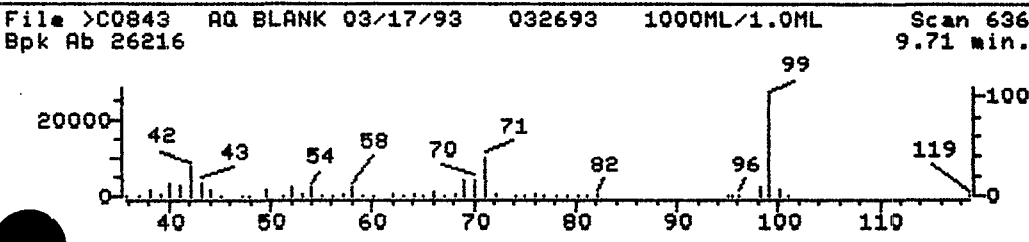
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

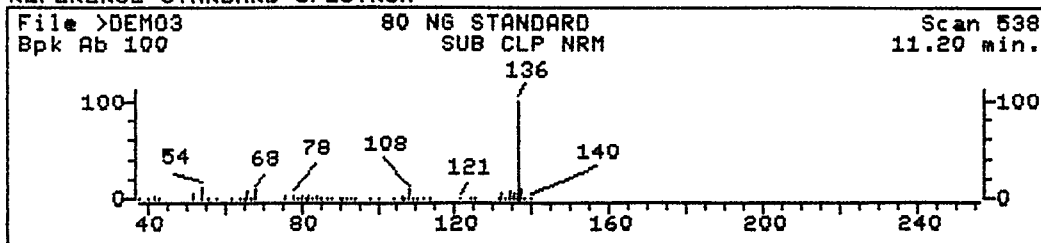
Quant Output File: ^C0843::ED

BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

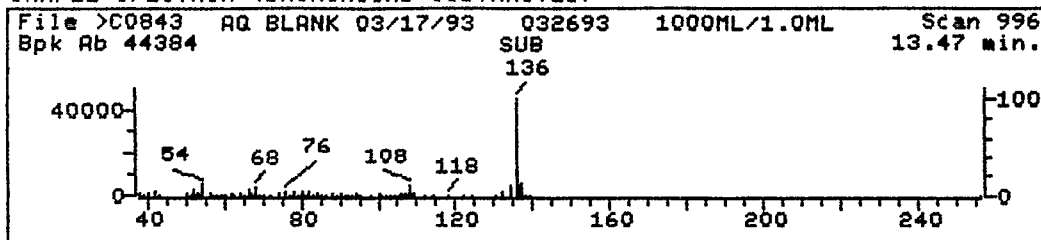
Compound No: 5  
Compound Name: Phenol-d5  
Scan Number: 636  
Retention Time: 9.71 min.  
Quant Ion: 99.0  
Area: 51947  
Concentration: 67.10 UG/L  
q-value: 91

AR100363

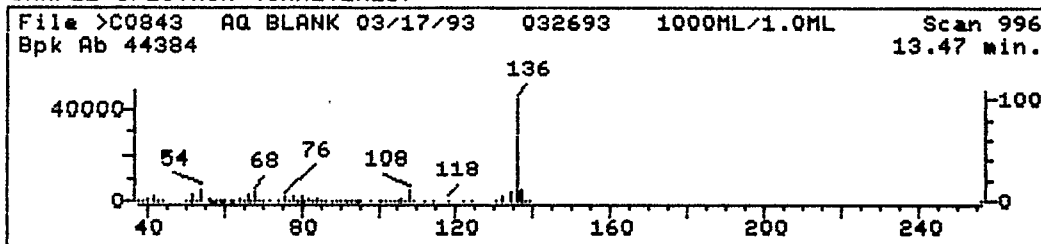
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



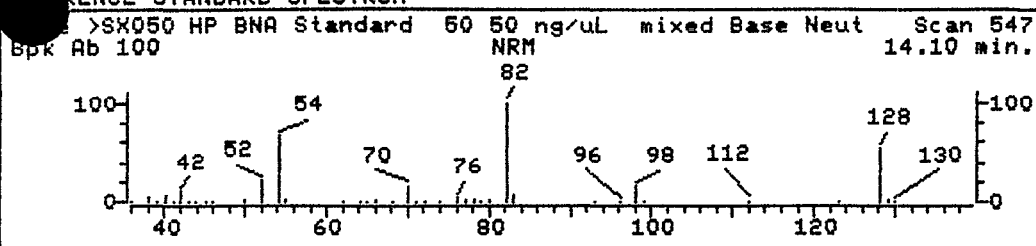
Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML  
 Quant Time: 930326 20:38  
 Injected at: 930326 19:59

Quant Output File: ^C0843::ED  
 BTL# 8  
 Quant ID File: ID0326::D4  
 Last Calibration: 930326 14:55

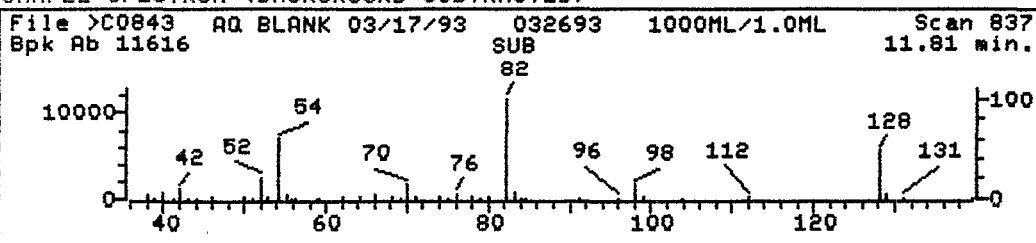
Compound No: 18 (ISTD)  
 Compound Name: d8-Naphthalene  
 Scan Number: 996  
 Retention Time: 13.47 min.  
 Quant Ion: 136.0  
 Area: 92052  
 Concentration: 40.00 UG/L  
 q-value: 88

AR100364

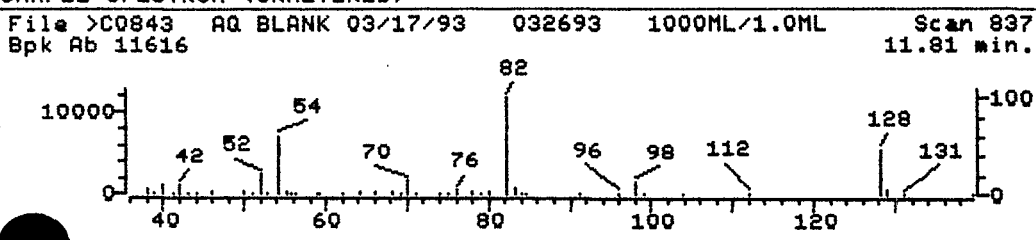
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

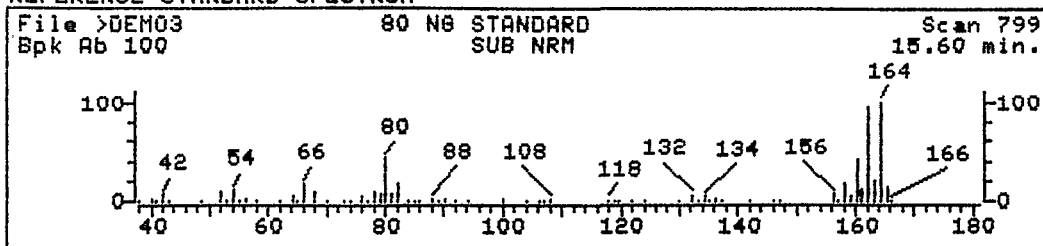


Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

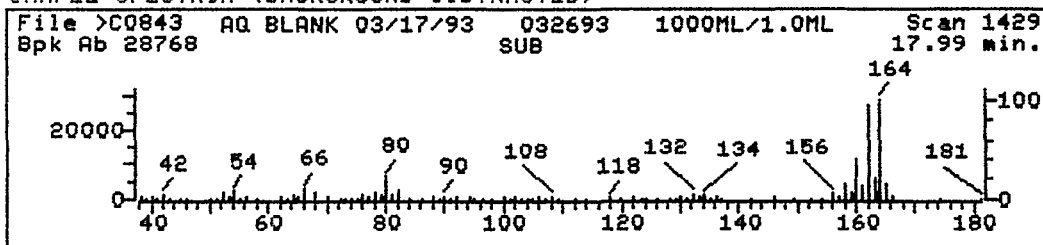
Quant Output File: ^C0843::ED  
BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

Compound No: 19  
Compound Name: Nitrobenzene-d5  
Scan Number: 837  
Retention Time: 11.81 min.  
Quant Ion: 82.0  
Area: 26079  
Concentration: 31.61 UG/L  
q-value: 86

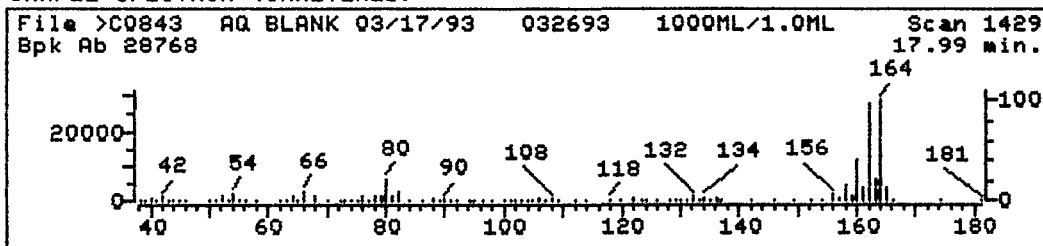
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



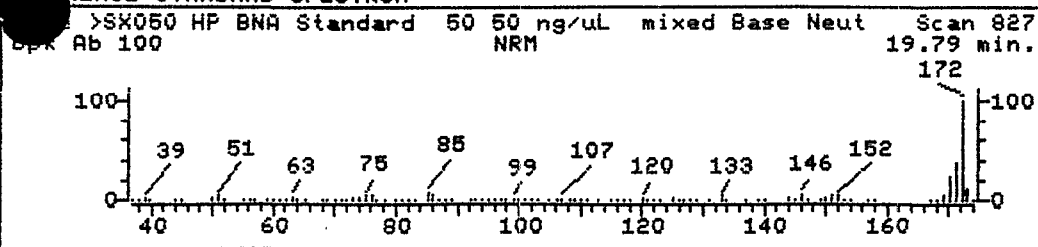
Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML  
 Quant Time: 930326 20:38  
 Injected at: 930326 19:59

Quant Output File: ^C0843::ED  
 BTL# 8  
 Quant ID File: ID0326::D4  
 Last Calibration: 930326 14:55

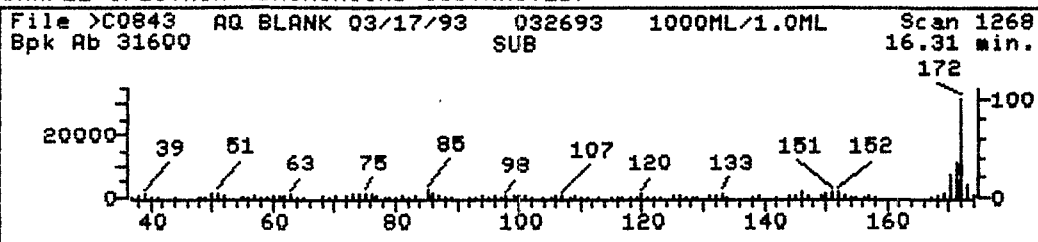
Compound No: 33 (ISTD)  
 Compound Name: d10-Acenaphthene  
 Scan Number: 1429  
 Retention Time: 17.99 min.  
 Quant Ion: 164.0  
 Area: 63234  
 Concentration: 40.00 UG/L  
 q-value: 93



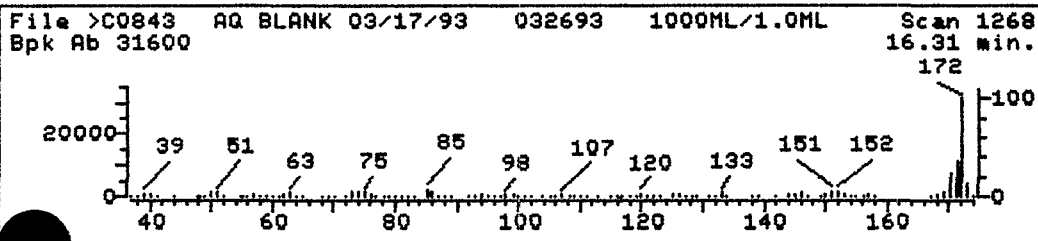
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

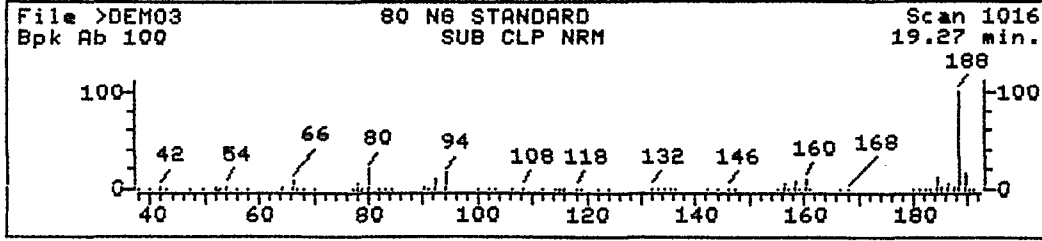


Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

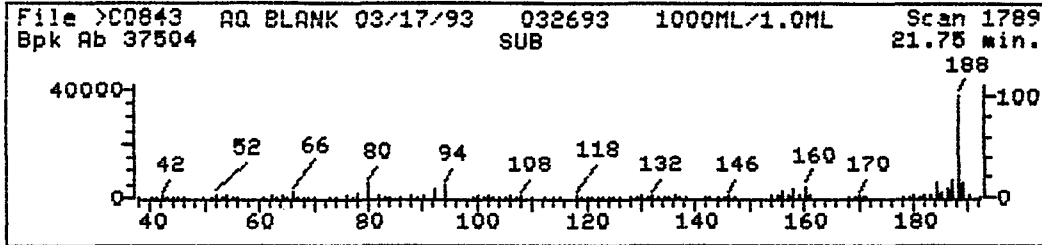
Quant Output File: ^C0843::ED  
BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

Compound No: 38  
Compound Name: 2-Fluorobiphenyl  
Scan Number: 1268  
Retention Time: 16.31 min.  
Quant Ion: 172.0  
Area: 66081  
Concentration: 30.98 UG/L  
q-value: 95

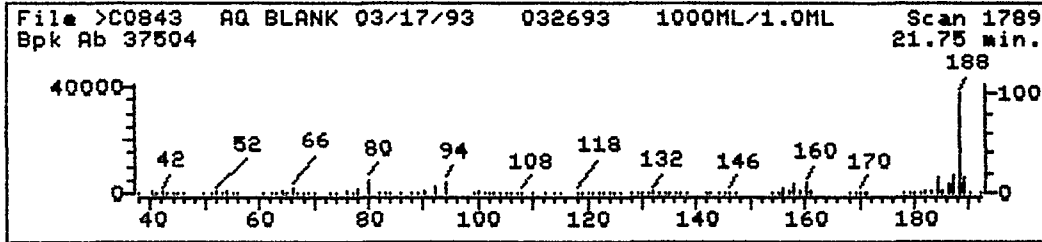
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



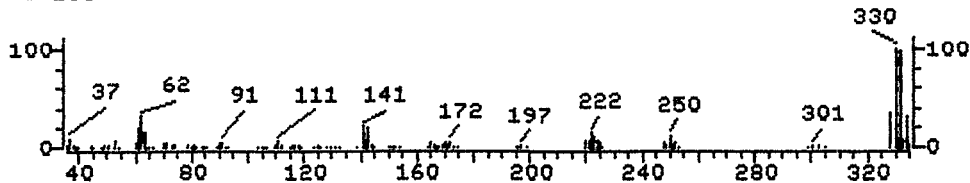
Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML  
 Quant Time: 930326 20:38  
 Injected at: 930326 19:59

Quant Output File: ^C0843::ED  
 BTL# 8  
 Quant ID File: ID0326::D4  
 Last Calibration: 930326 14:55

Compound No: 53 (ISTD)  
 Compound Name: d10-Phenanthrene  
 Scan Number: 1789  
 Retention Time: 21.75 min.  
 Quant Ion: 188.0  
 Area: 97302  
 Concentration: 40.00 UG/L  
 q-value: 98

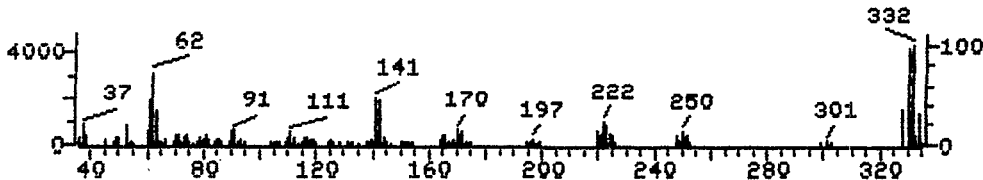
REFERENCE STANDARD SPECTRUM

>SX050 HP BNA Standard 50 50 ng/uL mixed Base Neut Scan 1048  
Bpk Ab 100 NRM 24.28 min.



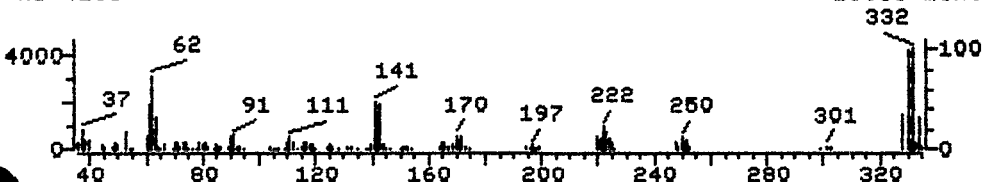
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >C0843 AQ BLANK 03/17/93 032693 1000ML/1.0ML Scan 1627  
Bpk Ab 4280 SUB 20.06 min.



SAMPLE SPECTRUM (UNALTERED)

File >C0843 AQ BLANK 03/17/93 032693 1000ML/1.0ML Scan 1627  
Bpk Ab 4280 20.06 min.

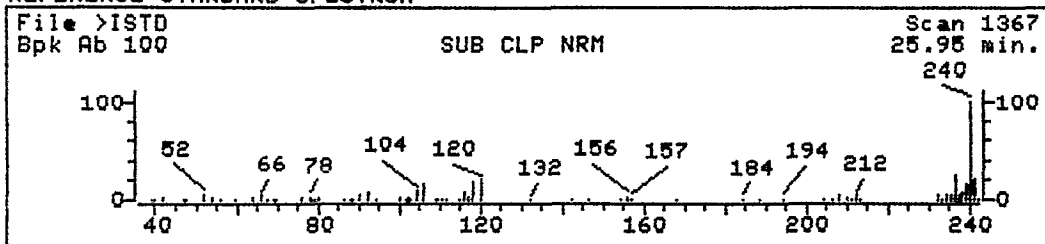


Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

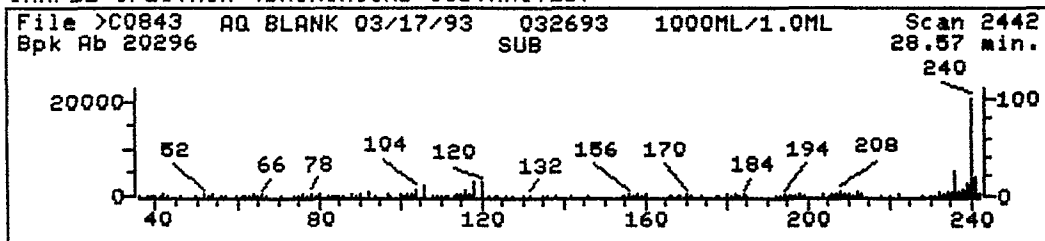
Quant Output File: ^C0843::ED  
BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

Compound No: 56  
Compound Name: 2,4,6-Tribromophenol  
Scan Number: 1627  
Retention Time: 20.06 min.  
Quant Ion: 330.0  
Area: 10771  
Concentration: 54.06 UG/L  
q-value: 91

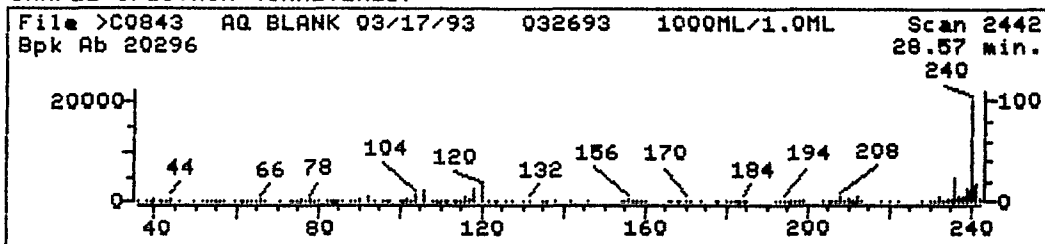
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

Quant Output File: ^C0843::ED

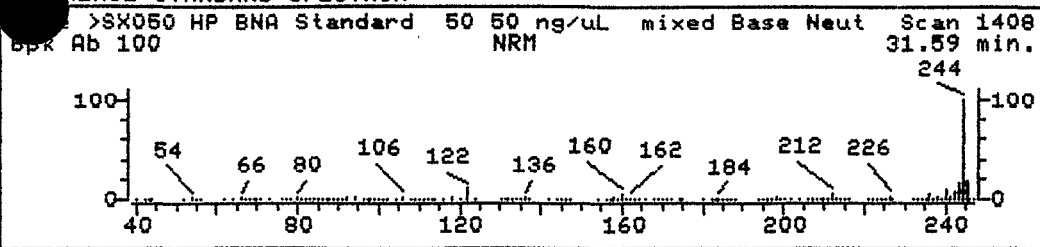
BTL# 8

Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

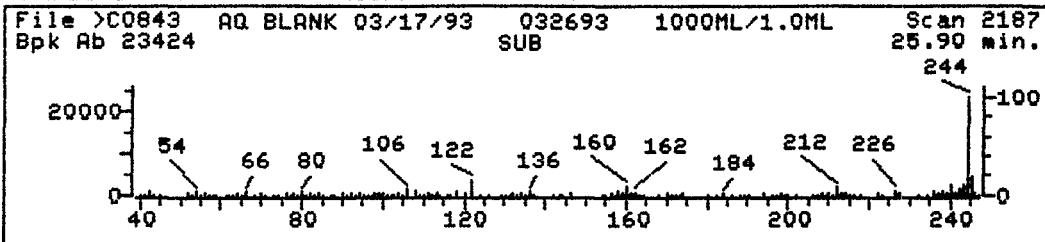
Compound No: 64 (ISTD)  
Compound Name: d12-Chrysene  
Scan Number: 2442  
Retention Time: 28.57 min.  
Quant Ion: 240.0  
Area: 58773  
Concentration: 40.00 UG/L  
q-value: 96

AR100370

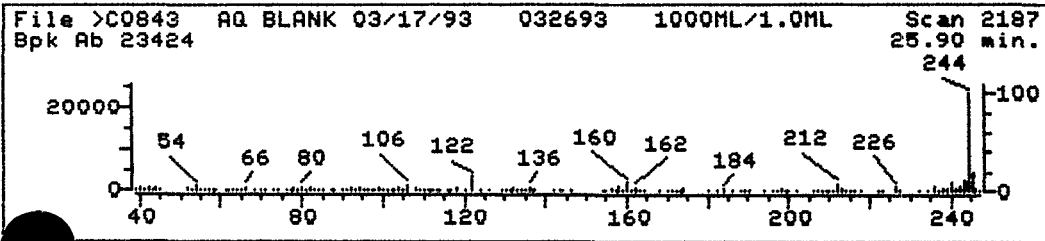
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

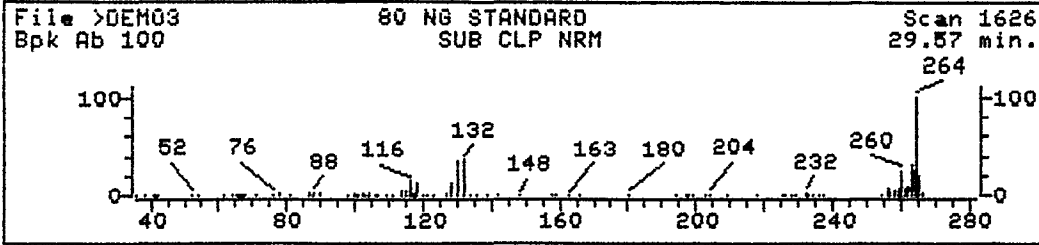


Data File: >C0843::D5  
Name: AQ BLANK 03/17/93  
Misc: 032693 1000ML/1.0ML  
Quant Time: 930326 20:38  
Injected at: 930326 19:59

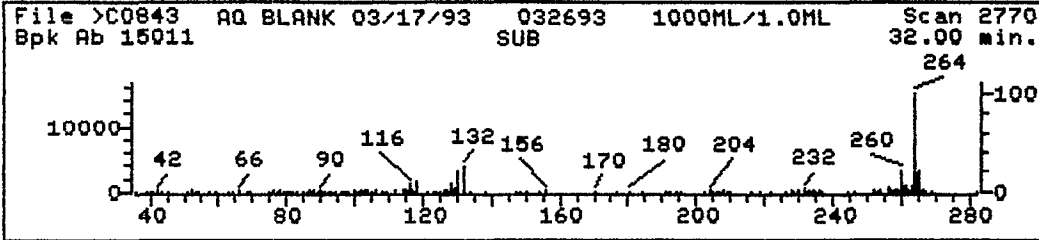
Quant Output File: ^C0843::ED  
BTL# 8  
Quant ID File: ID0326::D4  
Last Calibration: 930326 14:55

Compound No: 67  
Compound Name: Terphenyl-d14  
Scan Number: 2187  
Retention Time: 25.90 min.  
Quant Ion: 244.0  
Area: 58986  
Concentration: 36.49 UG/L  
q-value: 89

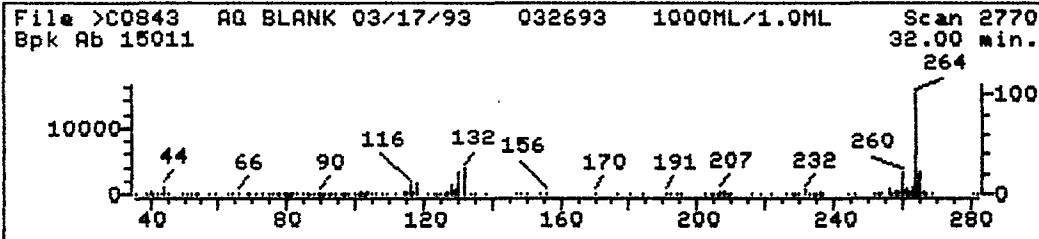
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C0843::D5  
 Name: AQ BLANK 03/17/93  
 Misc: 032693 1000ML/1.0ML  
 Quant Time: 930326 20:38  
 Injected at: 930326 19:59

Quant Output File: ^C0843::ED  
 BTL# 8  
 Quant ID File: ID0326::D4  
 Last Calibration: 930326 14:55

Compound No: 73 (ISTD)  
 Compound Name: d12-Perylene  
 Scan Number: 2770  
 Retention Time: 32.00 min.  
 Quant Ion: 264.0  
 Area: 47897  
 Concentration: 40.00 UG/L  
 q-value: 94

*(W)*  
*3-24-93*  
*(M)*  
*75100*  
*Py 205*

-----  
Element File: AS.GEL                      Element: As                      Wavelength: 193.7  
Date: 03/24/93                              Time: 08:50                      Slit: 0.7  
Data File: AS032493.DAT                   ID/Wt File: AS032493.IDW           Lamp Current: 20  
Technique: HGA                              Calib. Type: Linear                   Energy: 44  
-----

As      ID: Blank                              Seq. No.: 00001                      A/S Pos.: 0                      Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 1                                      Time: 08:53  
Peak Area (A-s): -0.007                      Peak Height (A): 0.028  
Background Pk Area (A-s): 0.051              Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): -0.007

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 2 (Peak Stored)                      Time: 08:56  
Peak Area (A-s): 0.007                      Peak Height (A): 0.024  
Background Pk Area (A-s): 0.023              Background Pk Height (A): 0.025  
Blank Corrected Pk Area (A-s): 0.007

Mean Pk Area (A-s):                      -0.000                      SD: 0.0104                      RSD(%): 22203.15

Auto-zero performed.

-----  
As      ID: Standard 1                              Seq. No.: 00002                      A/S Pos.: 37                      Date: 03/24/93

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 1                                      Time: 08:59  
Peak Area (A-s): 0.024                      Peak Height (A): 0.064  
Background Pk Area (A-s): 0.024              Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.024

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 2 (Peak Stored)                      Time: 09:03  
Peak Area (A-s): 0.032                      Peak Height (A): 0.039  
Background Pk Area (A-s): 0.023              Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.033

Mean Pk Area (A-s):                      0.028                      SD: 0.0063                      RSD(%): 22.28

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000                      Slope: 0.0056                      Int: 0.000

AR100373

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 1 Time: 09:06  
Peak Area (A-s): 0.068 Peak Height (A): 0.077  
Background PK Area (A-s): 0.019 Background PK Height (A): 0.026  
Blank Corrected PK Area (A-s): 0.068  
Concentration (ug/L ): 12.0

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 2 (Peak Stored) Time: 09:09  
Peak Area (A-s): 0.055 Peak Height (A): 0.078  
Background PK Area (A-s): 0.019 Background PK Height (A): 0.024

Blank Corrected PK Area (A-s): 0.055  
Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 10.9 SD: 1.64 RSD(%): 15.13

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.99894 Slope: 0.0061 Int: -0.001

As ID: Standard 3 Seq. No.: 00004 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 1 Time: 09:12  
Peak Area (A-s): 0.170 Peak Height (A): 0.196  
Background PK Area (A-s): 0.022 Background PK Height (A): 0.030  
Blank Corrected PK Area (A-s): 0.170  
Concentration (ug/L ): 28.0

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 2 (Peak Stored) Time: 09:15  
Peak Area (A-s): 0.164 Peak Height (A): 0.196  
Background PK Area (A-s): 0.031 Background PK Height (A): 0.033  
Blank Corrected PK Area (A-s): 0.164  
Concentration (ug/L ): 26.9

Mean Conc (ug/L ): 27.5 SD: 0.74 RSD(%): 2.68

Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99911 Slope: 0.0068 Int: -0.004

As ID: Standard 4 Seq. No.: 00005 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 1 Time: 09:19  
Peak Area (A-s): 0.337 Peak Height (A): 0.346  
Background PK Area (A-s): 0.036 Background PK Height (A): 0.041  
Blank Corrected PK Area (A-s): 0.337  
Concentration (ug/L ): 50.4

uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 2 (Peak Stored) Time: 09:22  
Peak Area (A-s): 0.340 Peak Height (A): 0.346  
Background PK Area (A-s): 0.040 Background PK Height (A): 0.036  
Blank Corrected PK Area (A-s): 0.340  
Concentration (ug/L ): 50.9

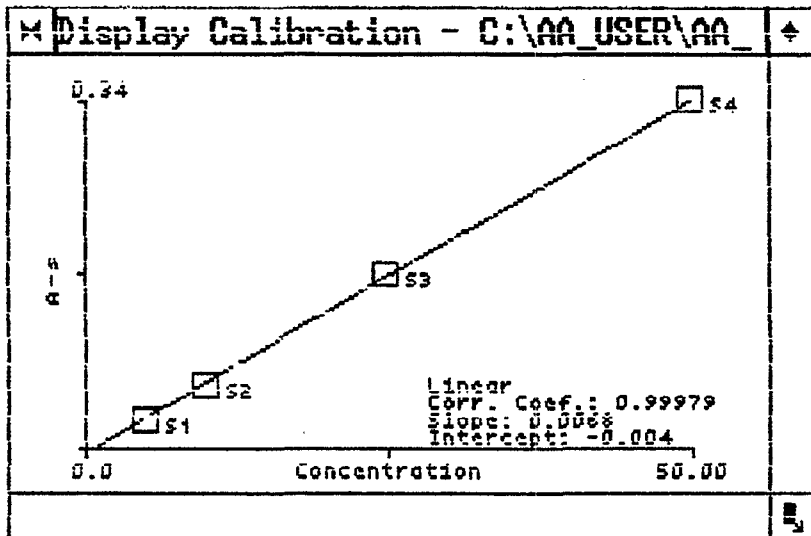
AR100374



Mean CONC (ug/L) : 19.7  
Standard number 4 applied. [50.0]  
Correlation coefficient: 0.99979

SD: 0.39  
Slope: 0.0068

RSD(%): 0.76  
Int: -0.004



As ID: AS Position 39 Seq. No.: 00006 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1  
Peak Area (A-s): 0.137  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.137  
Concentration (ug/L ): 20.6  
Time: 09:26  
Peak Height (A): 0.144  
Background Pk Height (A): 0.024

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.124  
Background Pk Area (A-s): 0.020  
Blank Corrected Pk Area (A-s): 0.125  
Concentration (ug/L ): 18.8  
Time: 09:29  
Peak Height (A): 0.154  
Background Pk Height (A): 0.025

Conc (ug/L ): 19.7 SD: 1.27 RSD(%): 6.44

Check sample is within range 17.5 - 22.5

AR100375

As ID: AS Position 40 Seq. No.: 00007 A/S Pos.: 40 Date: 03/24/93

Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.016  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.2

Peak Height (A): 0.022  
Background Pk Height (A): 0.025

uL dispensed: 10 from 0, 5 from 36, 20  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.011  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 1.5

Time: 09:35  
Peak Height (A): 0.021  
Background Pk Height (A): 0.023

Mean Conc (ug/L ): 1.3 SD: 0.20 RSD(%): 15.31

Check sample is within range -4.0 - 4.0

As ID: CRA Seq. No.: 00008 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1  
Peak Area (A-s): 0.079  
Background Pk Area (A-s): 0.020  
Blank Corrected Pk Area (A-s): 0.080  
Concentration (ug/L ): 12.2

Time: 09:38  
Peak Height (A): 0.094  
Background Pk Height (A): 0.030

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.069  
Background Pk Area (A-s): 0.022  
Blank Corrected Pk Area (A-s): 0.069  
Concentration (ug/L ): 10.7

Time: 09:42  
Peak Height (A): 0.089  
Background Pk Height (A): 0.029

Mean Conc (ug/L ): 11.5 SD: 1.07 RSD(%): 9.30

As ID: M031 BLANK Seq. No.: 00009 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.016  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 1.0

Time: 09:45  
Peak Height (A): 0.019  
Background Pk Height (A): 0.020

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2 (Peak Stored)  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.013  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): 0.5

Time: 09:48  
Peak Height (A): 0.027  
Background Pk Height (A): 0.020

Mean Conc (ug/L ): 0.8 SD: 0.36 RSD(%): 47.22

As ID: M031 BLANK Seq. No.: 00010 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.129  
Background Pk Area (A-s): 0.020

Time: 09:51  
Peak Height (A): 0.139  
Background Pk Height (A): 0.025

AR100376

Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 19.4

uL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 2 (Peak Stored) Time: 09:54  
Peak Area (A-s): 0.136 Peak Height (A): 0.136  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.136  
Concentration (ug/L ): 20.4

Mean Conc (ug/L ): 19.9 SD: 0.71 RSD(%): 3.56

Recovery is 95.9%

As ID: M031LCS/.25/F4 Seq. No.: 00011 A/S Pos.: 3 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 1 Time: 09:57  
Peak Area (A-s): 0.122 Peak Height (A): 0.191  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.092  
Blank Corrected Pk Area (A-s): 0.122  
Concentration (ug/L ): 18.5

uL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 2 (Peak Stored) Time: 10:00  
Peak Area (A-s): 0.119 Peak Height (A): 0.178  
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.093  
Blank Corrected Pk Area (A-s): 0.119  
Concentration (ug/L ): 18.1

Mean Conc (ug/L ): 18.3 SD: 0.29 RSD(%): 1.57

As ID: M031LCS/.25/F4 Seq. No.: 00012 A/S Pos.: 3 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 3  
Replicate 1 Time: 10:04  
Peak Area (A-s): 0.246 Peak Height (A): 0.359  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.096  
Blank Corrected Pk Area (A-s): 0.246  
Concentration (ug/L ): 36.6

uL dispensed: 5 from 36, 10 from 35, 20 from 3  
Replicate 2 (Peak Stored) Time: 10:07  
Peak Area (A-s): 0.255 Peak Height (A): 0.354  
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.093  
Blank Corrected Pk Area (A-s): 0.256  
Concentration (ug/L ): 38.0

Mean Conc (ug/L ): 37.3 SD: 1.00 RSD(%): 2.68

Recovery is 95.0%

As ID: A1217/1.01 Seq. No.: 00013 A/S Pos.: 4 Date: 03/24/93

AR100377

Replicate 1  
Peak Area (A-s): 1.034  
Background PK Area (A-s): 0.845  
Blank Corrected PK Area (A-s): 1.034  
Concentration (ug/L ): 151.9

Time: 10:10  
Peak Height (A): 1.363  
Background PK Height (A): 0.758

As ID: A1217/1.01 Seq. No.: 00014 A/S Pos.: 4 Date: 03/24/93

uL dispensed: 25 from 0, 5 from 36, 5 from 4

Replicate 1  
Peak Area (A-s): 0.357  
Time: 10:13  
Peak Height (A): 0.586

Background PK Area (A-s): 0.292  
Blank Corrected PK Area (A-s): 0.357  
Concentration (ug/L ): 52.9  
Background PK Height (A): 0.282  
Corrected Conc (ug/L ): 211.5

uL dispensed: 25 from 0, 5 from 36, 5 from 4

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.360  
Background PK Area (A-s): 0.249  
Blank Corrected PK Area (A-s): 0.360  
Concentration (ug/L ): 53.3  
Time: 10:16  
Peak Height (A): 0.598  
Background PK Height (A): 0.254  
Corrected Conc (ug/L ): 213.3

Mean Conc (ug/L ): 53.1  
Corrected Conc (ug/L ): 212.4  
SD: 0.32  
RSD(%): 0.61

As ID: A1217/1.01 Seq. No.: 00015 A/S Pos.: 4 Date: 03/24/93

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 4  
Sample abs. is greater than that of the largest standard.

Replicate 1  
Peak Area (A-s): 0.465  
Background PK Area (A-s): 0.251  
Blank Corrected PK Area (A-s): 0.465  
Concentration (ug/L ): 68.6  
Time: 10:19  
Peak Height (A): 0.769  
Background PK Height (A): 0.255  
Corrected Conc (ug/L ): 274.4

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 4  
Sample abs. is greater than that of the largest standard.

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.465  
Background PK Area (A-s): 0.250  
Blank Corrected PK Area (A-s): 0.465  
Concentration (ug/L ): 68.6  
Time: 10:23  
Peak Height (A): 0.767  
Background PK Height (A): 0.247  
Corrected Conc (ug/L ): 274.2

Sample abs. is greater than that of the largest standard.  
Mean Conc (ug/L ): 68.6  
Corrected Conc (ug/L ): 274.3  
SD: 0.03  
RSD(%): 0.04

Recovery is 77.4%

As ID: A1217/S/1.07/F=4 Seq. No.: 00016 A/S Pos.: 5 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 5

Replicate 1  
Peak Area (A-s): 0.005  
Background PK Area (A-s): 0.024  
Time: 10:26  
Peak Height (A): 0.022  
Background PK Height (A): 0.025

AR100378

Concentration (ug/L ): 1.9

uL dispensed: 10 from 0, 5 from 36, 20 from 5  
Replicate 2 (Peak Stored) Time: 10:29  
Peak Area (A-s): 0.008 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 1.9

Mean Conc (ug/L ): 1.6 SD: 0.38 RSD(%): 23.65

As ID: AS Position 39 Seq. No.: 00017 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 10:32  
Peak Area (A-s): 0.128 Peak Height (A): 0.148  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.128  
Concentration (ug/L ): 19.3

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 (Peak Stored) Time: 10:36  
Peak Area (A-s): 0.137 Peak Height (A): 0.156  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.137  
Concentration (ug/L ): 20.6

Mean Conc (ug/L ): 19.9 SD: 0.94 RSD(%): 4.71

Check sample is within range 17.5 - 22.5

As ID: AS Position 40 Seq. No.: 00018 A/S Pos.: 40 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 10:39  
Peak Area (A-s): 0.003 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 1.1

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 (Peak Stored) Time: 10:42  
Peak Area (A-s): -0.001 Peak Height (A): 0.016  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.8 SD: 0.42 RSD(%): 51.79

Check sample is within range -4.0 - 4.0

As ID: A1217SD/1.0/F=4 Seq. No.: 00019 A/S Pos.: 6 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 6

AR100379

Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 2.1

Background Pk Height (A): 0.016

uL dispensed: 10 from 0, 5 from 36, 20 from 6  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.008  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 1.8

Time: 10:48  
Peak Height (A): 0.018  
Background Pk Height (A): 0.017

Mean Conc (ug/L ): 1.9 SD: 0.19 RSD(%): 9.88

As ID: A1216/1.10 Seq. No.: 00020 A/S Pos.: 7 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 7  
Sample abs. is greater than that of the largest standard.  
Replicate 1  
Peak Area (A-s): 0.672  
Background Pk Area (A-s): 0.725  
Blank Corrected Pk Area (A-s): 0.672  
Concentration (ug/L ): 98.8

Time: 10:52  
Peak Height (A): 0.846  
Background Pk Height (A): 0.468

As ID: A1216/1.10 Seq. No.: 00021 A/S Pos.: 7 Date: 03/24/93

uL dispensed: 25 from 0, 5 from 36, 5 from 7  
Replicate 1  
Peak Area (A-s): 0.222  
Background Pk Area (A-s): 0.253  
Blank Corrected Pk Area (A-s): 0.222  
Concentration (ug/L ): 33.1

Time: 10:55  
Peak Height (A): 0.350  
Background Pk Height (A): 0.194  
Corrected Conc (ug/L ): 132.3

uL dispensed: 25 from 0, 5 from 36, 5 from 7  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.221  
Background Pk Area (A-s): 0.224  
Blank Corrected Pk Area (A-s): 0.221  
Concentration (ug/L ): 33.0

Time: 10:58  
Peak Height (A): 0.369  
Background Pk Height (A): 0.167  
Corrected Conc (ug/L ): 132.0

Mean Conc (ug/L ): 33.0 SD: 0.06 RSD(%): 0.17  
Corrected Conc (ug/L ): 132.1

As ID: A1216/1.10 Seq. No.: 00022 A/S Pos.: 7 Date: 03/24/93

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 7  
Replicate 1  
Peak Area (A-s): 0.319  
Background Pk Area (A-s): 0.227  
Blank Corrected Pk Area (A-s): 0.319  
Concentration (ug/L ): 47.2

Time: 11:01  
Peak Height (A): 0.506  
Background Pk Height (A): 0.172  
Corrected Conc (ug/L ): 188.9

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 7  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.334

Time: 11:05  
Peak Height (A): 0.513  
Background Pk Height (A): 0.166

AR100380

Concentration (ug/L ): 49.5                      Corrected Conc (ug/L ): 197.9  
Mean Conc (ug/L ): 48.3                      SD: 1.59                      RSD(%): 3.28  
Corrected Conc (ug/L ): 193.4

Recovery is 76.6%

As ID: M029 BLANK                      Seq. No.: 00023                      A/S Pos.: 8                      Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 8

Replicate 1                      Time: 11:08  
Peak Area (A-s): 0.008                      Peak Height (A): 0.020  
Background Pk Area (A-s): 0.018                      Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 1.9

uL dispensed: 10 from 0, 5 from 36, 20 from 8

Replicate 2 (Peak Stored)                      Time: 11:11  
Peak Area (A-s): 0.005                      Peak Height (A): 0.017  
Background Pk Area (A-s): 0.012                      Background Pk Height (A): 0.015  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.4

Conc (ug/L ): 1.6                      SD: 0.34                      RSD(%): 21.30

As ID: M029 BLANK                      Seq. No.: 00024                      A/S Pos.: 8                      Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 8

Replicate 1                      Time: 11:14  
Peak Area (A-s): 0.120                      Peak Height (A): 0.137  
Background Pk Area (A-s): 0.021                      Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.120  
Concentration (ug/L ): 18.2

uL dispensed: 5 from 36, 10 from 35, 20 from 8

Replicate 2 (Peak Stored)                      Time: 11:18  
Peak Area (A-s): 0.126                      Peak Height (A): 0.139  
Background Pk Area (A-s): 0.016                      Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.126  
Concentration (ug/L ): 19.0

Mean Conc (ug/L ): 18.6                      SD: 0.61                      RSD(%): 3.28

Recovery is 84.9%

As ID: M029LCS/AQ/FTD                      Seq. No.: 00025                      A/S Pos.: 9                      Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 9

Replicate 1                      Time: 11:21  
Peak Area (A-s): 0.059                      Peak Height (A): 0.078  
Background Pk Area (A-s): 0.020                      Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 9.2

AR100381

uL dispensed: 10 from 0, 5 from 36, 20 from 9

Peak Area (A-s): 0.068  
Background Pk Area (A-s): 0.012  
Blank Corrected PK Area (A-s): 0.068  
Concentration (ug/L ): 10.5

Peak Height (A): 0.074  
Background Pk Height (A): 0.016

Mean Conc (ug/L ): 9.9 SD: 0.90 RSD(%): 9.09

As ID: M029LCS/AQ/F10 Seq. No.: 00026 A/S Pos.: 9 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 9

Replicate 1  
Peak Area (A-s): 0.189  
Background Pk Area (A-s): 0.025  
Blank Corrected PK Area (A-s): 0.189  
Concentration (ug/L ): 28.2

Time: 11:27  
Peak Height (A): 0.197  
Background Pk Height (A): 0.029

uL dispensed: 5 from 36, 10 from 35, 20 from 9

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.186  
Background Pk Area (A-s): 0.021  
Blank Corrected PK Area (A-s): 0.186  
Concentration (ug/L ): 27.8

Time: 11:31  
Peak Height (A): 0.202  
Background Pk Height (A): 0.021

Mean Conc (ug/L ): 28.0 SD: 0.31 RSD(%): 1.11

Recovery is 90.6%

As ID: A1218/AQ Seq. No.: 00027 A/S Pos.: 10 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 10

Replicate 1  
Peak Area (A-s): 0.011  
Background Pk Area (A-s): 0.071  
Blank Corrected PK Area (A-s): 0.011  
Concentration (ug/L ): 2.3

Time: 11:34  
Peak Height (A): 0.025  
Background Pk Height (A): 0.037

uL dispensed: 10 from 0, 5 from 36, 20 from 10

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.010  
Background Pk Area (A-s): 0.069  
Blank Corrected PK Area (A-s): 0.010  
Concentration (ug/L ): 2.1

Time: 11:37  
Peak Height (A): 0.026  
Background Pk Height (A): 0.039

Mean Conc (ug/L ): 2.2 SD: 0.15 RSD(%): 7.13

As ID: A1218/AQ Seq. No.: 00028 A/S Pos.: 10 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 10

Replicate 1  
Peak Area (A-s): 0.130  
Background Pk Area (A-s): 0.074  
Blank Corrected PK Area (A-s): 0.130  
Concentration (ug/L ): 19.6

Time: 11:41  
Peak Height (A): 0.169  
Background Pk Height (A): 0.046

AR100382



Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.129  
Background Pk Area (A-s): 0.074  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 19.4

Time: 11:44  
Peak Height (A): 0.169  
Background Pk Height (A): 0.048

Mean Conc (ug/L ): 19.5 SD: 0.10 RSD(%): 0.49

Recovery is 86.6%

As ID: AS Position 39 Seq. No.: 00029 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 1  
Peak Area (A-s): 0.149  
Background Pk Area (A-s): 0.020  
Blank Corrected Pk Area (A-s): 0.149  
Concentration (ug/L ): 22.3  
Time: 11:47  
Peak Height (A): 0.193  
Background Pk Height (A): 0.020

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.151  
Background Pk Area (A-s): 0.019  
Blank Corrected Pk Area (A-s): 0.151  
Concentration (ug/L ): 22.7  
Time: 11:50  
Peak Height (A): 0.195  
Background Pk Height (A): 0.025

Mean Conc (ug/L ): 22.5 SD: 0.27 RSD(%): 1.21

Check sample is out of range 17.5 - 22.5

As ID: AS Position 40 Seq. No.: 00030 A/S Pos.: 40 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 1  
Peak Area (A-s): 0.013  
Background Pk Area (A-s): 0.011  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 2.5  
Time: 11:54  
Peak Height (A): 0.023  
Background Pk Height (A): 0.021

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.014  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.8  
Time: 11:57  
Peak Height (A): 0.020  
Background Pk Height (A): 0.015

Mean Conc (ug/L ): 1.7 SD: 1.18 RSD(%): 70.19

Check sample is within range -4.0 - 4.0

As ID: Blank Seq. No.: 00031 A/S Pos.: 0 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 0

Replicate 1  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.016  
Time: 12:00  
Peak Height (A): 0.014  
Background Pk Height (A): 0.016

AR100383

Concentration (ug/L ): 0.5

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 2 (Peak Stored) Time: 12:03  
Peak Area (A-s): 0.007 Peak Height (A): 0.022  
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.015  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 1.6

Mean Conc (ug/L ): 1.0 SD: 0.78 RSD(%): 74.87

Auto-zero performed.

As ID: Standard 1 Seq. No.: 00032 A/S Pos.: 37 Date: 03/24/93

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 1 Time: 12:06  
Peak Area (A-s): 0.045 Peak Height (A): 0.062  
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 6.7

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 2 (Peak Stored) Time: 12:09  
Peak Area (A-s): 0.046 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.043  
Concentration (ug/L ): 6.9

Mean Conc (ug/L ): 6.8 SD: 0.09 RSD(%): 1.26

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000 Slope: 0.0085 Int: 0.000

As ID: Standard 2 Seq. No.: 00033 A/S Pos.: 37 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 1 Time: 12:13  
Peak Area (A-s): 0.072 Peak Height (A): 0.097  
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.069  
Concentration (ug/L ): 8.1

uL dispensed: 10 from 0, 5 from 36, 20 from 37

As ID: Standard 2 Seq. No.: 00034 A/S Pos.: 37 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 1 Time: 12:16  
Peak Area (A-s): 0.070 Peak Height (A): 0.079  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.067  
Concentration (ug/L ): 7.9

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 2 (Peak Stored) Time: 12:19  
Peak Area (A-s): 0.060 Peak Height (A): 0.075

AR100384

Blank Corrected PK Area (A-s): 0.057  
Concentration (ug/L ): 6.7

Mean Conc (ug/L ): 7.3 SD: 0.82 RSD(%): 11.22

Standard number 2 applied. [10.0]

Correlation coefficient: 0.97853 Slope: 0.0062 Int: 0.004

As ID: Standard 3 Seq. No.: 00035 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 20 from 0, 5 from 36, 10 from 38

Replicate 1 Time: 12:23  
Peak Area (A-s): 0.161 Peak Height (A): 0.185  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.023  
Blank Corrected PK Area (A-s): 0.158  
Concentration (ug/L ): 24.9

uL dispensed: 20 from 0, 5 from 36, 10 from 38

Replicate 2 (Peak Stored) Time: 12:26  
Peak Area (A-s): 0.164 Peak Height (A): 0.201  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.021  
Blank Corrected PK Area (A-s): 0.161  
Concentration (ug/L ): 25.3

Mean Conc (ug/L ): 25.1 SD: 0.26 RSD(%): 1.03

Standard number 3 applied. [25.0]

Correlation coefficient: 0.99687 Slope: 0.0062 Int: 0.004

As ID: Standard 4 Seq. No.: 00036 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 38

Replicate 1 Time: 12:29  
Peak Area (A-s): 0.335 Peak Height (A): 0.353  
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.032  
Blank Corrected PK Area (A-s): 0.332  
Concentration (ug/L ): 52.7

uL dispensed: 10 from 0, 5 from 36, 20 from 38

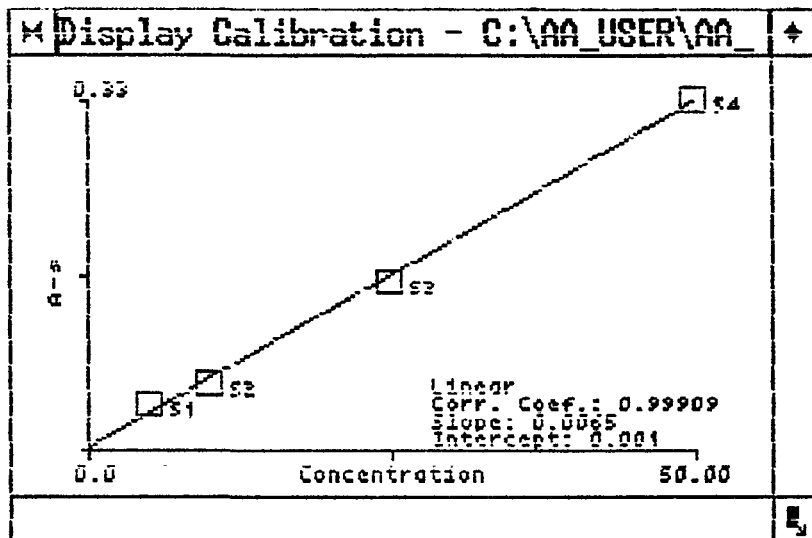
Replicate 2 (Peak Stored) Time: 12:32  
Peak Area (A-s): 0.333 Peak Height (A): 0.340  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.035  
Blank Corrected PK Area (A-s): 0.330  
Concentration (ug/L ): 52.3

Mean Conc (ug/L ): 52.5 SD: 0.28 RSD(%): 0.54

Standard number 4 applied. [50.0]

Correlation coefficient: 0.99909 Slope: 0.0065 Int: 0.001

AR100385



As ID: A1218S/AQ Seq. No.: 00037 A/S Pos.: 11 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
 Replicate 1 Time: 12:36  
 Peak Area (A-s): 0.267 Peak Height (A): 0.363  
 Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.264  
 Concentration (ug/L ): 40.2

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
 Replicate 2 (Peak Stored) Time: 12:39  
 Peak Area (A-s): 0.269 Peak Height (A): 0.378  
 Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.055  
 Blank Corrected Pk Area (A-s): 0.266  
 Concentration (ug/L ): 40.5

Mean Conc (ug/L ): 40.3 SD: 0.23 RSD(%): 0.57

As ID: AS Position 39 Seq. No.: 00038 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 1 Time: 12:46

AR100386

Background Pk Area (A-s): 0.022  
Blank Corrected Pk Area (A-s): 0.131  
Concentration (ug/L ): 19.9

Background Pk Height (A): 0.020

uL dispensed: 10 from 0, 5 from 36, 20  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.130  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 19.2

Time: 12:50  
Peak Height (A): 0.142  
Background Pk Height (A): 0.019

Mean Conc (ug/L ): 19.5 SD: 0.47 RSD(%): 2.41

Check sample is within range 17.5 - 22.5

As ID: AS Position 40 Seq. No.: 00039 A/S Pos.: 40 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.015  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.3

Time: 12:53  
Peak Height (A): 0.016  
Background Pk Height (A): 0.017

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.015  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -0.7

Time: 12:56  
Peak Height (A): 0.017  
Background Pk Height (A): 0.017

Mean Conc (ug/L ): -0.5 SD: 0.27 RSD(%): 53.40

Check sample is within range -4.0 - 4.0

As ID: CRA Seq. No.: 00040 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1  
Peak Area (A-s): 0.069  
Background Pk Area (A-s): 0.019  
Blank Corrected Pk Area (A-s): 0.066  
Concentration (ug/L ): 9.9

Time: 12:59  
Peak Height (A): 0.084  
Background Pk Height (A): 0.021

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.070  
Background Pk Area (A-s): 0.019  
Blank Corrected Pk Area (A-s): 0.067  
Concentration (ug/L ): 10.1

Time: 13:02  
Peak Height (A): 0.088  
Background Pk Height (A): 0.020

Conc (ug/L ): 10.0 SD: 0.10 RSD(%): 1.04

As ID: A1218S/AQ Seq. No.: 00041 A/S Pos.: 11 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 1  
Peak Area (A-s): 0.267

Time: 13:06  
Peak Height (A): 0.355

ARI00387

Blank Corrected PK Area (A-s): 0.253  
Concentration (ug/L ): 40.2

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 2 (Peak Stored) Time: 13:09  
Peak Area (A-s): 0.256 Peak Height (A): 0.356  
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.054  
Blank Corrected PK Area (A-s): 0.253  
Concentration (ug/L ): 38.4

Mean Conc (ug/L ): 39.3 SD: 1.25 RSD(%): 3.18

As ID: A1218SD/AQ Seq. No.: 00042 A/S Pos.: 12 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 1 Time: 13:12  
Peak Area (A-s): 0.256 Peak Height (A): 0.341  
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.050  
Blank Corrected PK Area (A-s): 0.253  
Concentration (ug/L ): 38.6

uL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 2 (Peak Stored) Time: 13:15  
Peak Area (A-s): 0.251 Peak Height (A): 0.338  
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.047  
Blank Corrected PK Area (A-s): 0.248  
Concentration (ug/L ): 37.7

Mean Conc (ug/L ): 38.1 SD: 0.58 RSD(%): 1.52

As ID: A1219/AQ Seq. No.: 00043 A/S Pos.: 13 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 1 Time: 13:19  
Peak Area (A-s): 0.008 Peak Height (A): 0.024  
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.042  
Blank Corrected PK Area (A-s): 0.005  
Concentration (ug/L ): 0.6

uL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 2 (Peak Stored) Time: 13:22  
Peak Area (A-s): 0.008 Peak Height (A): 0.022  
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.047  
Blank Corrected PK Area (A-s): 0.005  
Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.6 SD: 0.04 RSD(%): 6.31

As ID: A1219/AQ Seq. No.: 00044 A/S Pos.: 13 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 35, 20 from 13  
Replicate 1 Time: 13:25  
Peak Area (A-s): 0.119 Peak Height (A): 0.171  
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.048  
Blank Corrected PK Area (A-s): 0.116  
Concentration (ug/L ): 17.5

AR100388

replicate 1  
Peak Area (A-s): 0.119  
Background Pk Area (A-s): 0.098  
Blank Corrected Pk Area (A-s): 0.116  
Concentration (ug/L ): 17.5

Peak Height (A): 0.171  
Background Pk Height (A): 0.048

uL dispensed: 5 from 36, 10 from 35, 20 from 13

Replicate 2 (Peak Stored)

Time: 13:28

Peak Area (A-s): 0.119

Peak Height (A): 0.182

Background Pk Area (A-s): 0.098

Background Pk Height (A): 0.051

Blank Corrected Pk Area (A-s): 0.116

Concentration (ug/L ): 17.5

Mean Conc (ug/L ): 17.5

SD: 0.03

RSD(%): 0.15

Recovery is 84.8%

As ID: AS Position 39 Seq. No.: 00045 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 1

Time: 13:32

Peak Area (A-s): 0.125

Peak Height (A): 0.144

Background Pk Area (A-s): 0.023

Background Pk Height (A): 0.022

Blank Corrected Pk Area (A-s): 0.122

Concentration (ug/L ): 18.5

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 2 (Peak Stored)

Time: 13:35

Peak Area (A-s): 0.119

Peak Height (A): 0.144

Background Pk Area (A-s): 0.024

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.116

Concentration (ug/L ): 17.5

Mean Conc (ug/L ): 18.0

SD: 0.67

RSD(%): 3.73

Check sample is within range 17.5 - 22.5

As ID: AS Position 40 Seq. No.: 00046 A/S Pos.: 40 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 1

Time: 13:38

Peak Area (A-s): 0.001

Peak Height (A): 0.016

Background Pk Area (A-s): 0.015

Background Pk Height (A): 0.016

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -0.5

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 2 (Peak Stored)

Time: 13:41

Peak Area (A-s): 0.006

Peak Height (A): 0.016

Background Pk Area (A-s): 0.010

Background Pk Height (A): 0.017

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 0.3

Mean Conc (ug/L ): -0.1

SD: 0.60

RSD(%): 540.14

Check sample is within range -4.0 - 4.0

AR100389

uL dispensed: 10 from 0, 5 from 36, 10 from 0  
Replicate 1 (Peak Stored) Time: 13:48  
Peak Area (A-s): 0.002 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.002

Auto-zero performed.

As ID: Standard 1 Seq. No.: 00001 A/S Pos.: 37 Date: 03/24/93

uL dispensed: 15 from 0, 5 from 36, 5 from 37  
Replicate 1 (Peak Stored) Time: 13:51  
Peak Area (A-s): 0.020 Peak Height (A): 0.029

Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.018

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000 Slope: 0.0035 Int: 0.000

As ID: Standard 2 Seq. No.: 00002 A/S Pos.: 37 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 37  
Replicate 1 (Peak Stored) Time: 13:54  
Peak Area (A-s): 0.038 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 10.2

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.99994 Slope: 0.0036 Int: -0.000

As ID: Standard 3 Seq. No.: 00003 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 15 from 0, 5 from 36, 5 from 38  
Replicate 1 (Peak Stored) Time: 13:57  
Peak Area (A-s): 0.077 Peak Height (A): 0.103  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 20.9

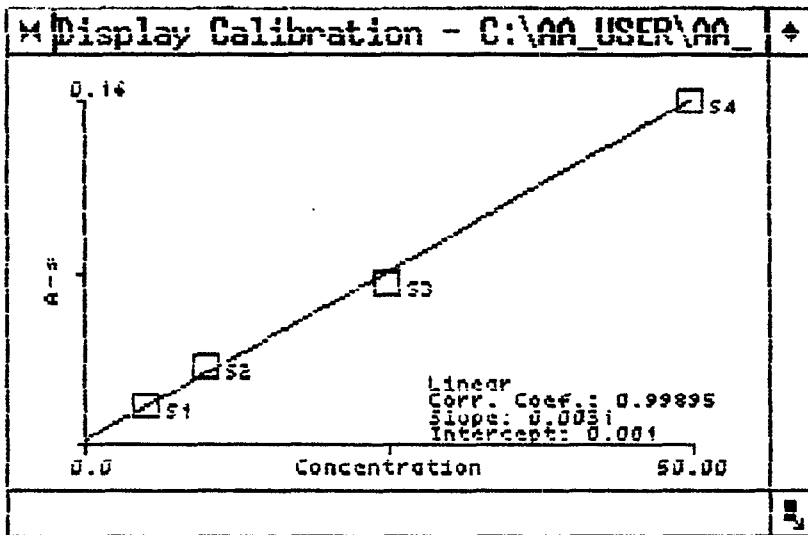
Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99626 Slope: 0.0030 Int: 0.002

As ID: Standard 4 Seq. No.: 00004 A/S Pos.: 38 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 38  
Replicate 1 (Peak Stored) Time: 14:00  
Peak Area (A-s): 0.160 Peak Height (A): 0.175  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.158  
Concentration (ug/L ): 52.6

AR100390





As ID: AS Position 39 Seq. No.: 00005 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 39  
 Replicate 1 (Peak Stored) Time: 14:10  
 Peak Area (A-s): 0.062 Peak Height (A): 0.075  
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.018  
 Blank Corrected Pk Area (A-s): 0.062

As ID: AS Position 40 Seq. No.: 00006 A/S Pos.: 40 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 40  
 Replicate 1 (Peak Stored) Time: 14:13  
 Peak Area (A-s): -0.003 Peak Height (A): 0.015  
 Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.016  
 Blank Corrected Pk Area (A-s): -0.003

As ID: A1217/1.01/F10 Seq. No.: 00007 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 1  
 Replicate 1 (Peak Stored) Time: 14:17  
 Peak Area (A-s): 0.060 Peak Height (A): 0.102

AR100391

As ID: Addition 1 Seq. No.: 00008 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 5 from 0, 5 from 36, 5 from 37, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:20  
Peak Area (A-s): 0.108 Peak Height (A): 0.164  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): 0.108

As ID: Addition 2 Seq. No.: 00009 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 37, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:23

Peak Area (A-s): 0.132 Peak Height (A): 0.204  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.033  
Blank Corrected Pk Area (A-s): 0.132

As ID: Addition 3 Seq. No.: 00010 A/S Pos.: 1 Date: 03/24/93

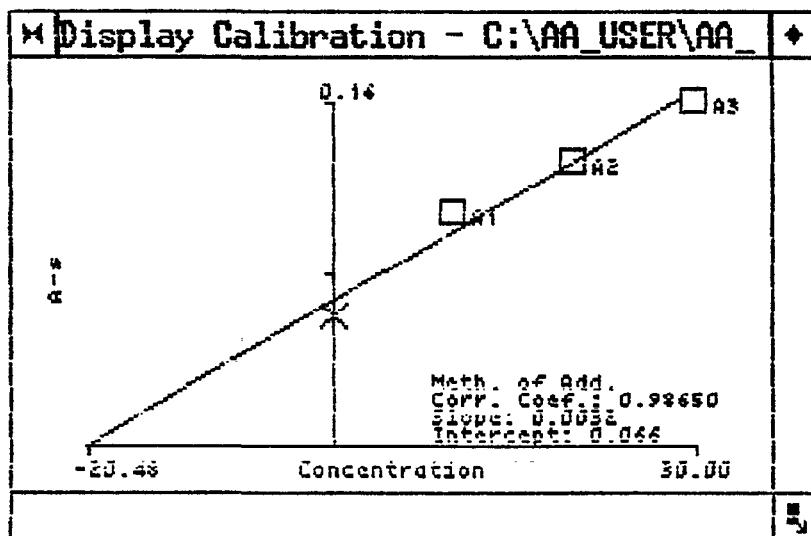
uL dispensed: 5 from 36, 10 from 38, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:26  
Peak Area (A-s): 0.159 Peak Height (A): 0.254  
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.159

The standard additions calibration curve may not be linear.

As ID: A1217/1.01/F10 Seq. No.: 00007 A/S Pos.: 1 Date: 03/24/93

Concentration (ug/L ): 20.5

Correlation coefficient: 0.98650 Slope: 0.0032 Int: 0.066



As ID: A1216/1.10/F=10 Seq. No.: 00011 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 2  
Replicate 1 (Peak Stored) Time: 14:30  
Peak Area (A-s): 0.035 Peak Height (A): 0.073

AR100392

Peak Area (A-s): 0.035  
Background Pk Area (A-s): 0.038  
Blank Corrected Pk Area (A-s): 0.035

Peak Height (A): 0.075  
Background Pk Height (A): 0.028

As ID: Addition 1 Seq. No.: 00012 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 5 from 0, 5 from 36, 5 from 37, 10 from 2

Replicate 1 (Peak Stored)

Time: 14:33

Peak Area (A-s): 0.078

Peak Height (A): 0.131

Background Pk Area (A-s): 0.038

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.078

As ID: Addition 2 Seq. No.: 00013 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 37, 10 from 2

Replicate 1 (Peak Stored)

Time: 14:36

Peak Area (A-s): 0.108

Peak Height (A): 0.180

Background Pk Area (A-s): 0.037

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.108

As ID: Addition 3 Seq. No.: 00014 A/S Pos.: 2 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 38, 10 from 2

Replicate 1 (Peak Stored)

Time: 14:40

Peak Area (A-s): 0.143

Peak Height (A): 0.226

Background Pk Area (A-s): 0.042

Background Pk Height (A): 0.036

Blank Corrected Pk Area (A-s): 0.143

The standard additions calibration curve may not be linear.

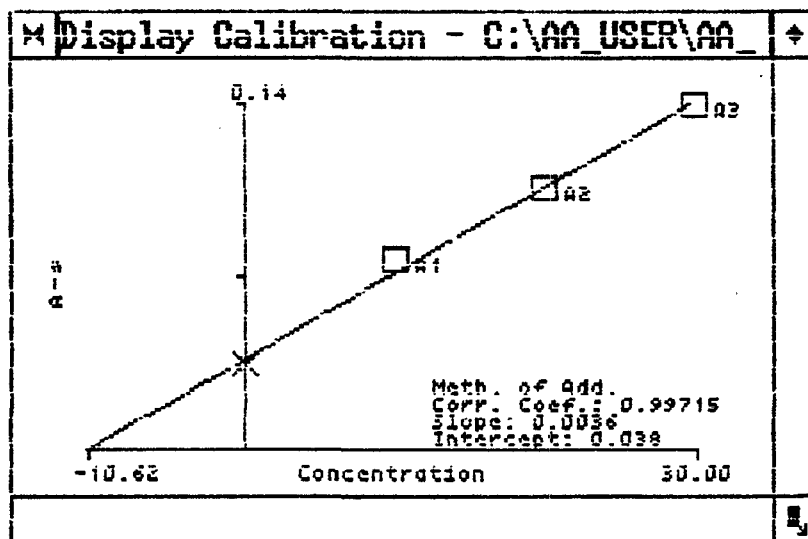
As ID: A1216/1.10/F=10 Seq. No.: 00011 A/S Pos.: 2 Date: 03/24/93

Concentration (ug/L ): 10.6

Correlation coefficient: 0.99715

Slope: 0.0036

Int: 0.038



AR100393

As ID: A1217/1.01/F10 Seq. No.: 00015 A/S Pos.: 1 Date: 03/24/93

Background Pk Area (A-s): 0.036  
Blank Corrected Pk Area (A-s): 0.066

Background Pk Height (A): 0.029

As ID: Addition 1 Seq. No.: 00016 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 5 from 0, 5 from 36, 5 from 37, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:47  
Peak Area (A-s): 0.102 Peak Height (A): 0.170  
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.102

As ID: Addition 2 Seq. No.: 00017 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 37, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:50  
Peak Area (A-s): 0.135 Peak Height (A): 0.212  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.135

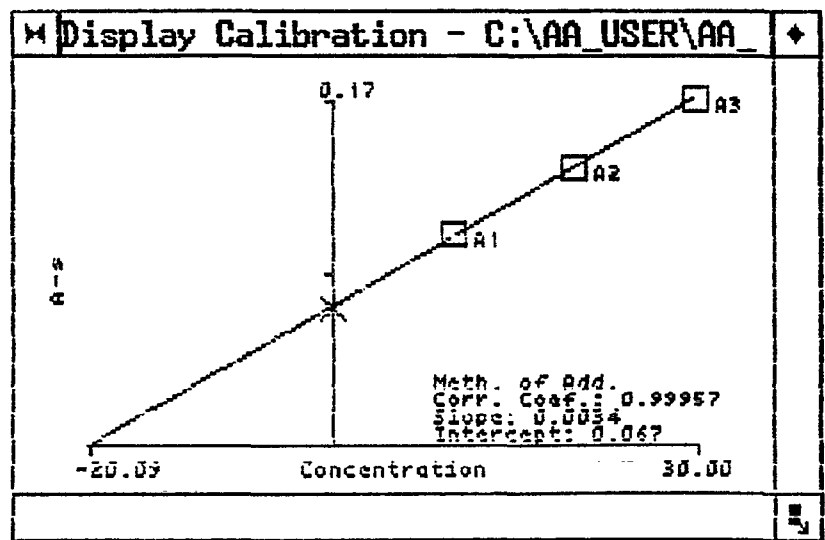
As ID: Addition 3 Seq. No.: 00018 A/S Pos.: 1 Date: 03/24/93

uL dispensed: 5 from 36, 10 from 38, 10 from 1  
Replicate 1 (Peak Stored) Time: 14:54  
Peak Area (A-s): 0.167 Peak Height (A): 0.264  
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.038  
Blank Corrected Pk Area (A-s): 0.167

As ID: A1217/1.01/F10 Seq. No.: 00015 A/S Pos.: 1 Date: 03/24/93

Concentration (ug/L ): 20.1

Correlation coefficient: 0.99957 Slope: 0.0034 Int: 0.067



As ID: AS Position 39 Seq. No.: 00019 A/S Pos.: 39 Date: 03/24/93

uL dispensed: 10 from 0, 5 from 36, 10 from 39

AR100394

Background Pk Area (A-s): 0.023  
Blank Corrected Pk Area (A-s): 0.069

Background Pk Height (A): 0.018

As ID: AS Position 40 Seq. No.: 00020 A/S Pos.: 40 Date: 03/24/93

Dispensed: 10 from 0, 5 from 36, 10 from 40

Peak 1 (Peak Stored)

Time: 15:01

Peak Area (A-s): 0.002

Peak Height (A): 0.015

Background Pk Area (A-s): 0.014

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.002

AR100395

Replicate 1  
Peak Area (A-s): 0.021  
Background Pk Area (A-s): 0.006  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.7

Time: 09:55  
Peak Height (A): 0.032  
Background Pk Height (A): 0.010

UL dispensed: 10 from 0, 5 from 36, 20 from 0

Replicate 2  
Peak Area (A-s): 0.013  
Background Pk Area (A-s): 0.006  
Blank Corrected Pk Area (A-s): -0.012  
Concentration (ug/L ): -3.8

Time: 09:58  
Peak Height (A): 0.023  
Background Pk Height (A): 0.008

Mean Conc (ug/L ): -3.2 SD: 0.83 RSD(%): 25.46

Auto-zero performed.

.....  
No ID: Standard 1 Seq. No.: 00009 A/S Pos.: 37 Date: 03/30/93

UL dispensed: 20 from 0, 5 from 36, 10 from 37

Replicate 1  
Peak Area (A-s): 0.060  
Background Pk Area (A-s): 0.021  
Blank Corrected Pk Area (A-s): 0.043  
Concentration (ug/L ): 4.8

Time: 10:01  
Peak Height (A): 0.102  
Background Pk Height (A): 0.028

UL dispensed: 20 from 0, 5 from 36, 10 from 37

Replicate 2  
Peak Area (A-s): 0.058  
Background Pk Area (A-s): 0.016  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 4.6

Time: 10:04  
Peak Height (A): 0.100  
Background Pk Height (A): 0.025

Mean Conc (ug/L ): 4.7 SD: 0.13 RSD(%): 3.92

Standard number 1 applied. [5.0]  
Correlation Coefficient: 1.00000

Slope: 0.0084 Int: 0.000

.....  
No ID: Standard 2 Seq. No.: 00010 A/S Pos.: 37 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 37

Replicate 1  
Peak Area (A-s): 0.101  
Background Pk Area (A-s): 0.028  
Blank Corrected Pk Area (A-s): 0.073

Time: 10:06  
Peak Height (A): 0.159  
Background Pk Height (A): 0.043

AR100396

UL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 2  
Peak Area (A-s): 0.100  
Background Pk Area (A-s): 0.027  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 9.9

Time: 10:09  
Peak Height (A): 0.158  
Background Pk Height (A): 0.041  
SD: 0.14  
RSD(%): 1.36

Mean Conc (ug/L ): 10.0  
Standard number 2 applied. [10.0]

Correlation coefficient: 1.00000 Slope: 0.0083 Int: 0.000

Pb ID: Standard 3 Seq. No.: 00011 A/S Pos.: 38 Date: 03/30/93

UL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 1  
Peak Area (A-s): 0.193  
Background Pk Area (A-s): 0.052  
Blank Corrected Pk Area (A-s): 0.176  
Concentration (ug/L ): 21.1

Time: 10:12  
Peak Height (A): 0.293  
Background Pk Height (A): 0.078

UL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 2  
Peak Area (A-s): 0.193  
Background Pk Area (A-s): 0.053  
Blank Corrected Pk Area (A-s): 0.176  
Concentration (ug/L ): 21.2

Time: 10:15  
Peak Height (A): 0.287  
Background Pk Height (A): 0.075

Mean Conc (ug/L ): 21.1 SD: 0.06 RSD(%): 0.27

Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99670 Slope: 0.0070 Int: 0.006

Pb ID: Standard 4 Seq. No.: 00012 A/S Pos.: 38 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 1  
Peak Area (A-s): 0.341  
Background Pk Area (A-s): 0.092  
Blank Corrected Pk Area (A-s): 0.324  
Concentration (ug/L ): 45.7

Time: 10:18  
Peak Height (A): 0.531  
Background Pk Height (A): 0.145

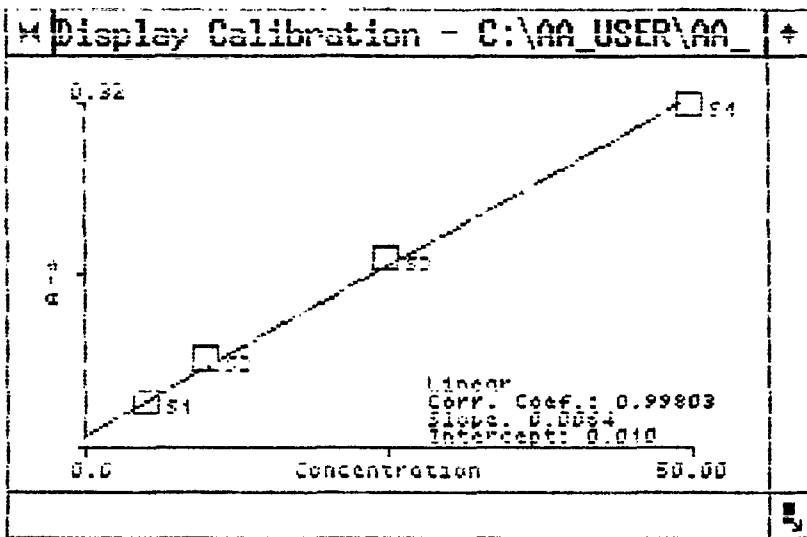
UL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 2  
Peak Area (A-s): 0.341  
Background Pk Area (A-s): 0.091  
Blank Corrected Pk Area (A-s): 0.324  
Concentration (ug/L ): 45.8

Time: 10:21  
Peak Height (A): 0.534  
Background Pk Height (A): 0.146

Mean Conc (ug/L ): 45.8 SD: 0.02 RSD(%): 0.05

Standard number 4 applied. [50.0]  
Correlation coefficient: 0.99803 Slope: 0.006 Int: 0.010

AR100397



FD ID: AS Position 39 Seq. No.: 00013 A/S Pos.: 39 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 1 Time: 10:25  
 Peak Area (A-s): 0.153 Peak Height (A): 0.226  
 Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.060  
 Blank Corrected Pk Area (A-s): 0.136  
 Concentration (ug/L ): 19.8

UL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 2 Time: 10:28  
 Peak Area (A-s): 0.152 Peak Height (A): 0.226  
 Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.059  
 Blank Corrected Pk Area (A-s): 0.135  
 Concentration (ug/L ): 19.6

Mean Conc (ug/L ): 19.7 SD: 0.14 RSD(%): 0.73

Check sample is within range 17.0 - 23.0

FD ID: AS Position 40 Seq. No.: 00014 A/S Pos.: 40 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 39

AR100398



Peak Area (A-s): 0.012 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.4

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 10:34  
Peak Area (A-s): 0.012 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.3

Mean Conc (ug/L ): -2.4 SD: 0.06 RSD(%): 2.54

Check sample is within range -3.0 - 3.0

PD ID: CRA Seq. No.: 00015 A/S Pos.: 1 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1 Time: 10:37  
Peak Area (A-s): 0.092 Peak Height (A): 0.134  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 10.1

UL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2 Time: 10:39  
Peak Area (A-s): 0.089 Peak Height (A): 0.133  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034  
Blank Corrected Pk Area (A-s): 0.072  
Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 9.9 SD: 0.30 RSD(%): 3.00

PD ID: M029 BLANK Seq. No.: 00016 A/S Pos.: 2 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1 Time: 10:42  
Peak Area (A-s): 0.012 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.5

UL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2 Time: 10:45  
Peak Area (A-s): 0.013 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.3

Mean Conc (ug/L ): -2.4 SD: 0.09 RSD(%): 3.79

PD ID: M029 BLANK Seq. No.: 00017 A/S Pos.: 2 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 1 Time: 10:48  
Peak Area (A-s): 0.025 Peak Height (A): 0.041  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.012

AR100399

UL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 2  
Peak Area (A-S): 0.018  
Background PK Area (A-S): 0.004  
Blank Corrected PK Area (A-S): 0.001  
Concentration (ug/L ): -1.5

Time: 10:51  
Peak Height (A): 0.028  
Background PK Height (A): 0.009  
SD: 0.80  
RSD(%): 84.21

Mean Conc (ug/L ): -0.9

*Add -  
spiking solution  
in wrong position  
MAJ*

Recovery is 7.2%

PD ID: M029LCS/AQ/F=4 Seq. No.: 00018 A/S Pos.: 3 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 1  
Peak Area (A-S): 0.114  
Background PK Area (A-S): 0.028  
Blank Corrected PK Area (A-S): 0.097  
Concentration (ug/L ): 13.6

Time: 10:54  
Peak Height (A): 0.185  
Background PK Height (A): 0.047

UL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 2  
Peak Area (A-S): 0.111  
Background PK Area (A-S): 0.027  
Blank Corrected PK Area (A-S): 0.094  
Concentration (ug/L ): 13.1

Time: 10:57  
Peak Height (A): 0.181  
Background PK Height (A): 0.046

Mean Conc (ug/L ): 13.4 SD: 0.37 RSD(%): 2.78

PD ID: M029LCS/AQ/F=4 Seq. No.: 00019 A/S Pos.: 3 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 35, 20 from 3

PD ID: AS Position 39 Seq. No.: 00020 A/S Pos.: 39 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1  
Peak Area (A-S): 0.168  
Background PK Area (A-S): 0.040  
Blank Corrected PK Area (A-S): 0.141  
Concentration (ug/L ): 20.5

Time: 11:00  
Peak Height (A): 0.233  
Background PK Height (A): 0.060

UL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2  
Peak Area (A-S): 0.166  
Background PK Area (A-S): 0.038  
Blank Corrected PK Area (A-S): 0.166  
Concentration (ug/L ): 20.1

Time: 11:06  
Peak Height (A): 0.236  
Background PK Height (A): 0.062

Mean Conc (ug/L ): 20.3 SD: 0.30 RSD(%): 1.46

check sample is within range 17.0 - 23.0

AR100400

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1  
Peak Area (A-s): 0.013  
Background Pk Area (A-s): 0.003  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.2  
Time: 11:06  
Peak Height (A): 0.020  
Background Pk Height (A): 0.007

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2  
Peak Area (A-s): 0.012  
Time: 11:09  
Peak Height (A): 0.021

Background Pk Area (A-s): 0.006  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.3  
Background Pk Height (A): 0.008

Mean Conc (ug/L ): -2.3 SD: 0.12 RSD(%): 5.15

Check sample is within range -3.0 - 3.0

PD ID: M029 BLANK Sec. No.: 00022 A/S Pos.: 2 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.013  
Background Pk Area (A-s): 0.004  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.3  
Time: 11:12  
Peak Height (A): 0.020  
Background Pk Height (A): 0.007

UL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2  
Peak Area (A-s): 0.012  
Background Pk Area (A-s): 0.003  
Blank Corrected Pk Area (A-s): -0.005  
Concentration (ug/L ): -2.3  
Time: 11:15  
Peak Height (A): 0.021  
Background Pk Height (A): 0.008

Mean Conc (ug/L ): -2.3 SD: 0.02 RSD(%): 0.97

PD ID: M029 BLANK Sec. No.: 00023 A/S Pos.: 2 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.169  
Background Pk Area (A-s): 0.042  
Blank Corrected Pk Area (A-s): 0.152  
Concentration (ug/L ): 22.2  
Time: 11:17  
Peak Height (A): 0.259  
Background Pk Height (A): 0.063

UL dispensed: 5 from 36, 10 from 36, 20 from 2  
Replicate 2  
Peak Area (A-s): 0.155  
Background Pk Area (A-s): 0.037  
Blank Corrected Pk Area (A-s): 0.138  
Concentration (ug/L ): 20.0  
Time: 11:20  
Peak Height (A): 0.234  
Background Pk Height (A): 0.059

Mean Conc (ug/L ): 21.1 SD: 1.58 RSD(%): 7.51

Recovery is 117.1%

AR100401

UL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 1 Time: 11:23  
Peak Area (A-s): 0.110 Peak Height (A): 0.180  
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.096  
Concentration (ug/L ): 12.9

UL dispensed: 10 from 0, 5 from 36, 20 from 3

Replicate 2 Time: 11:26  
Peak Area (A-s): 0.111 Peak Height (A): 0.181  
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 13.1

Mean Conc (ug/L ): 13.0 SD: 0.09 RSD(%): 0.73

UL dispensed: 5 from 36, 10 from 35, 20 from 3  
Replicate 1 Time: 11:29  
Peak Area (A-s): 0.246 Peak Height (A): 0.414  
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.108  
Blank Corrected Pk Area (A-s): 0.229  
Concentration (ug/L ): 34.4

UL dispensed: 5 from 36, 10 from 35, 20 from 3  
Replicate 2 Time: 11:32  
Peak Area (A-s): 0.242 Peak Height (A): 0.412  
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.105  
Blank Corrected Pk Area (A-s): 0.225  
Concentration (ug/L ): 33.7

Mean Conc (ug/L ): 34.0 SD: 0.46 RSD(%): 1.35

Recovery is 105.2%

UL dispensed: 10 from 0, 5 from 36, 20 from 4  
Replicate 1 Time: 11:35  
Peak Area (A-s): 0.193 Peak Height (A): 0.326  
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.083  
Blank Corrected Pk Area (A-s): 0.176  
Concentration (ug/L ): 26.0

UL dispensed: 10 from 0, 5 from 36, 20 from 4  
Replicate 2 Time: 11:38  
Peak Area (A-s): 0.192 Peak Height (A): 0.337  
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.087  
Blank Corrected Pk Area (A-s): 0.175  
Concentration (ug/L ): 25.8

AR100402

uL dispensed: 5 from 36, 10 from 35, 20 from 4

Replicate 1

Time: 11:41

Peak Area (A-s): 0.311

Peak Height (A): 0.530

Background Pk Area (A-s): 0.080

Background Pk Height (A): 0.139

Blank Corrected Pk Area (A-s): 0.294

Concentration (ug/L ): 44.4

uL dispensed: 5 from 36, 10 from 35, 20 from 4

Replicate 2

Time: 11:44

Peak Area (A-s): 0.309

Peak Height (A): 0.536

Background Pk Area (A-s): 0.078

Background Pk Height (A): 0.139

Blank Corrected Pk Area (A-s): 0.292

Concentration (ug/L ): 44.3

Mean Conc (ug/L ): 44.4

SD: 0.12

RSD(%): 0.28

Recovery is 92.3%

PO ID: A1277S/AQ

Seq. No.: 00028

A/S Pos.: 5

Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 5

Replicate 1

Time: 11:46

Peak Area (A-s): 0.180

Peak Height (A): 0.316

Background Pk Area (A-s): 0.047

Background Pk Height (A): 0.079

Blank Corrected Pk Area (A-s): 0.163

Concentration (ug/L ): 23.9

uL dispensed: 10 from 0, 5 from 36, 20 from 5

Replicate 2

Time: 11:49

Peak Area (A-s): 0.180

Peak Height (A): 0.318

Background Pk Area (A-s): 0.046

Background Pk Height (A): 0.080

Blank Corrected Pk Area (A-s): 0.163

Concentration (ug/L ): 23.9

Mean Conc (ug/L ): 23.9

SD: 0.00

RSD(%): 0.02

PO ID: A1277SD/AQ

Seq. No.: 00029

A/S Pos.: 6

Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 6

Replicate 1

Time: 11:52

Peak Area (A-s): 0.169

Peak Height (A): 0.298

Background Pk Area (A-s): 0.043

Background Pk Height (A): 0.074

Blank Corrected Pk Area (A-s): 0.152

Concentration (ug/L ): 22.2

uL dispensed: 10 from 0, 5 from 36, 20 from 6

Replicate 2

Time: 11:55

Peak Area (A-s): 0.169

Peak Height (A): 0.300

Background Pk Area (A-s): 0.045

Background Pk Height (A): 0.074

Blank Corrected Pk Area (A-s): 0.152

Concentration (ug/L ): 22.2

Mean Conc (ug/L ): 22.2

SD: 0.00

RSD(%): 0.10

AR100403

UL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 11:58  
Peak Area (A-s): 0.156 Peak Height (A): 0.234  
Background PK Area (A-s): 0.037 Background PK Height (A): 0.067  
Blank Corrected PK Area (A-s): 0.139  
Concentration (ug/L ): 20.2

UL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 2 Time: 12:01  
Peak Area (A-s): 0.157 Peak Height (A): 0.232  
Background PK Area (A-s): 0.048 Background PK Height (A): 0.061  
Blank Corrected PK Area (A-s): 0.140  
Concentration (ug/L ): 20.4

Mean Conc (ug/L ): 20.3 SD: 0.17 RSD(%): 0.83

Check sample is within range 17.0 - 23.0

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 12:04  
Peak Area (A-s): 0.011 Peak Height (A): 0.020  
Background PK Area (A-s): 0.004 Background PK Height (A): 0.007  
Blank Corrected PK Area (A-s): -0.006  
Concentration (ug/L ): -2.6

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 12:07  
Peak Area (A-s): 0.014 Peak Height (A): 0.021  
Background PK Area (A-s): 0.003 Background PK Height (A): 0.008  
Blank Corrected PK Area (A-s): -0.003  
Concentration (ug/L ): -2.2

Mean Conc (ug/L ): -2.4 SD: 0.32 RSD(%): 13.38

Check sample is within range -3.0 - 3.0

UL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 1 Time: 12:10  
Peak Area (A-s): 0.075 Peak Height (A): 0.136  
Background PK Area (A-s): 0.018 Background PK Height (A): 0.033  
Blank Corrected PK Area (A-s): 0.058  
Concentration (ug/L ): 7.5

UL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 2 Time: 12:13  
Peak Area (A-s): 0.068 Peak Height (A): 0.126  
Background PK Area (A-s): 0.017 Background PK Height (A): 0.032  
Blank Corrected PK Area (A-s): 0.051

AR100404

FD ID: A1279/AQ Seq. No.: 00033 A/S Pos.: 7 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 35, 20 from 7  
Replicate 1 Time: 12:16  
Peak Area (A-s): 0.206 Peak Height (A): 0.403  
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.100  
Blank Corrected Pk Area (A-s): 0.189  
Concentration (ug/L ): 28.0

UL dispensed: 5 from 36, 10 from 35, 20 from 7  
Replicate 2 Time: 12:19  
Peak Area (A-s): 0.202 Peak Height (A): 0.399  
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.100  
Blank Corrected Pk Area (A-s): 0.185  
Concentration (ug/L ): 27.4

mean conc (ug/L ): 27.7 SD: 0.43 RSD(%): 1.54

Recovery is 103.7%

FD ID: A1294/AQ Seq. No.: 00034 A/S Pos.: 8 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 1 Time: 12:22  
Peak Area (A-s): 0.082 Peak Height (A): 0.137  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.065  
Concentration (ug/L ): 8.6

UL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 2 Time: 12:25  
Peak Area (A-s): 0.092 Peak Height (A): 0.148  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 10.1

mean conc (ug/L ): 9.4 SD: 1.02 RSD(%): 10.87

FD ID: A1294/AQ Seq. No.: 00035 A/S Pos.: 8 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 35, 20 from 8  
Replicate 1 Time: 12:28  
Peak Area (A-s): 0.209 Peak Height (A): 0.341  
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.085  
Blank Corrected Pk Area (A-s): 0.192  
Concentration (ug/L ): 28.5

UL dispensed: 5 from 36, 10 from 35, 20 from 8  
Replicate 2 Time: 12:31  
Peak Area (A-s): 0.206 Peak Height (A): 0.341  
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.084  
Blank Corrected Pk Area (A-s): 0.189  
Concentration (ug/L ): 28.1

AR100405

Recovery is 94.7%

Pd ID: A1295/AQ Seq. No.: 00036 A/S Pos.: 9 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 1 Time: 12:34  
Peak Area (A-s): 0.059 Peak Height (A): 0.112  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L ): 5.0

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 2 Time: 12:37  
Peak Area (A-s): 0.059 Peak Height (A): 0.111  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 4.9

Mean Conc (ug/L ): 5.0 SD: 0.08 RSD(%): 1.51

Pd ID: A1295/AQ Seq. No.: 00037 A/S Pos.: 9 Date: 03/30/93

uL dispensed: 5 from 36, 10 from 35, 20 from 9  
Replicate 1 Time: 12:40  
Peak Area (A-s): 0.190 Peak Height (A): 0.351  
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.089  
Blank Corrected Pk Area (A-s): 0.173  
Concentration (ug/L ): 25.5

uL dispensed: 5 from 36, 10 from 35, 20 from 9  
Replicate 2 Time: 12:43  
Peak Area (A-s): 0.187 Peak Height (A): 0.350  
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.089  
Blank Corrected Pk Area (A-s): 0.170  
Concentration (ug/L ): 25.1

Mean Conc (ug/L ): 25.3 SD: 0.28 RSD(%): 1.10

Recovery is 101.4%

Pd ID: AS Position 39 Seq. No.: 00038 A/S Pos.: 39 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 12:46  
Peak Area (A-s): 0.155 Peak Height (A): 0.256  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.158  
Concentration (ug/L ): 20.0

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 Time: 12:49  
Peak Area (A-s): 0.155 Peak Height (A): 0.257  
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.059

AR100406



Mean Conc (ug/L ): 20.0 SD: 0.06 RSD(%): 0.30

Check sample is within range 17.0 - 23.0

ID: AS POSITION 40 Seq. No.: 00039 A/S Pos.: 40 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 12:52  
Peak Area (A-s): 0.011 Peak Height (A): 0.020

Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -2.6

UL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 12:55  
Peak Area (A-s): 0.013 Peak Height (A): 0.024  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.2

Mean Conc (ug/L ): -2.4 SD: 0.22 RSD(%): 9.04

Check sample is within range -3.0 - 3.0

AR100407

Pb ID: Blank Seq. No.: 00008 A/S Pos.: 0 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 0

AR100408

Pb ID: AS Position 39 Seq. No.: 00040 A/S Pos.: 39 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 13:09  
Peak Area (A-s): 0.161 Peak Height (A): 0.237  
Background PK Area (A-s): 0.030 Background PK Height (A): 0.056  
Blank Corrected PK Area (A-s): 0.144  
Concentration (ug/L ): 20.9

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 Time: 13:12  
Peak Area (A-s): 0.159 Peak Height (A): 0.238  
Background PK Area (A-s): 0.037 Background PK Height (A): 0.059  
Blank Corrected PK Area (A-s): 0.142  
Concentration (ug/L ): 20.6

Mean Conc (ug/L ): 20.8 SD: 0.23 RSD(%): 1.12

Check sample is within range 17.0 - 23.0

Pb ID: AS Position 40 Seq. No.: 00041 A/S Pos.: 40 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 13:15  
Peak Area (A-s): 0.014 Peak Height (A): 0.023  
Background PK Area (A-s): 0.003 Background PK Height (A): 0.006  
Blank Corrected PK Area (A-s): -0.003  
Concentration (ug/L ): -2.0

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 13:18  
Peak Area (A-s): 0.014 Peak Height (A): 0.022  
Background PK Area (A-s): 0.005 Background PK Height (A): 0.007  
Blank Corrected PK Area (A-s): -0.003  
Concentration (ug/L ): -2.1

Mean Conc (ug/L ): -2.1 SD: 0.05 RSD(%): 2.36

Check sample is within range -3.0 - 3.0

Pb ID: 1215/AG Seq. No.: 00042 A/S Pos.: 10 Date: 03/30/93

AR100409

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 1  
Peak Area (A-s): 0.085  
Background Pk Area (A-s): 0.024  
Blank Corrected Pk Area (A-s): 0.068  
Concentration (ug/L ): 9.0  
Time: 13:21  
Peak Height (A): 0.161  
Background Pk Height (A): 0.039

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 2  
Peak Area (A-s): 0.078  
Background Pk Area (A-s): 0.023  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 7.9  
Time: 13:24  
Peak Height (A): 0.153  
Background Pk Height (A): 0.041

Mean Conc (ug/L ): 8.5 SD: 0.76 RSD(%): 8.95

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Pd ID: A1218/AQ Seq. No.: 00043 A/S Pos.: 10 Date: 03/30/93

uL dispensed: 5 from 36, 10 from 35, 20 from 10  
Replicate 1  
Peak Area (A-s): 0.213  
Background Pk Area (A-s): 0.052  
Blank Corrected Pk Area (A-s): 0.196  
Concentration (ug/L ): 29.1  
Time: 13:27  
Peak Height (A): 0.427  
Background Pk Height (A): 0.110

uL dispensed: 5 from 36, 10 from 35, 20 from 10  
Replicate 2  
Peak Area (A-s): 0.207  
Background Pk Area (A-s): 0.055  
Blank Corrected Pk Area (A-s): 0.190  
Concentration (ug/L ): 28.3  
Time: 13:30  
Peak Height (A): 0.425  
Background Pk Height (A): 0.109

Mean Conc (ug/L ): 28.7 SD: 0.61 RSD(%): 2.11

Recovery is 101.1%

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Pd ID: A1218S/AQ Seq. No.: 00044 A/S Pos.: 11 Date: 03/30

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 1  
Peak Area (A-s): 0.246  
Background Pk Area (A-s): 0.063  
Blank Corrected Pk Area (A-s): 0.229  
Concentration (ug/L ): 34.4  
Time: 13:33  
Peak Height (A): 0.462  
Background Pk Height (A): 0.118

AR100410

Replicate 2  
Peak Area (A-s): 0.246  
Background PK Area (A-s): 0.064  
Blank Corrected PK Area (A-s): 0.229  
Concentration (ug/L ): 34.3

Time: 13:36  
Peak Height (A): 0.464  
Background PK Height (A): 0.117

Conc (ug/L ): 34.3 SD: 0.04 RSD(%): 0.12

Pb ID: A1218SD/AQ Seq. No.: 00046 A/S Pos.: 12 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 1  
Peak Area (A-s): 0.192  
Background PK Area (A-s): 0.048  
Blank Corrected PK Area (A-s): 0.175  
Concentration (ug/L ): 25.9

Time: 13:39  
Peak Height (A): 0.375  
Background PK Height (A): 0.096

UL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 2  
Peak Area (A-s): 0.191  
Background PK Area (A-s): 0.048  
Blank Corrected PK Area (A-s): 0.174  
Concentration (ug/L ): 25.6

Time: 13:42  
Peak Height (A): 0.377  
Background PK Height (A): 0.096

Mean Conc (ug/L ): 25.7 SD: 0.18 RSD(%): 0.72

Pb ID: A1219/AQ Seq. No.: 00046 A/S Pos.: 13 Date: 03/30/93

UL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 1  
Peak Area (A-s): 0.108  
Background PK Area (A-s): 0.029  
Blank Corrected PK Area (A-s): 0.091  
Concentration (ug/L ): 12.6

Time: 13:45  
Peak Height (A): 0.226  
Background PK Height (A): 0.056

UL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 2  
Peak Area (A-s): 0.108  
Background PK Area (A-s): 0.030  
Blank Corrected PK Area (A-s): 0.091  
Concentration (ug/L ): 12.6

Time: 13:48  
Peak Height (A): 0.227  
Background PK Height (A): 0.056

Mean Conc (ug/L ): 12.6 SD: 0.00 RSD(%): 0.01

Pb ID: A1219/AQ Seq. No.: 00047 A/S Pos.: 13 Date: 03/30/93

UL dispensed: 5 from 36, 10 from 35, 20 from 13  
Replicate 1  
Peak Area (A-s): 0.232  
Background PK Area (A-s): 0.064  
Blank Corrected PK Area (A-s): 0.215  
Concentration (ug/L ): 32.2

Time: 13:51  
Peak Height (A): 0.495  
Background PK Height (A): 0.131

UL dispensed: 5 from 36, 10 from 35, 20 from 13

AR100411

Peak Area (A-s): 0.230  
Background Pk Area (A-s): 0.054  
Blank Corrected Pk Area (A-s): 0.213  
Concentration (ug/L ): 31.8

Peak Height (A): 0.490  
Background Pk Height (A): 0.123

Mean Conc (ug/L ): 32.0 SD: 0.22 RSD(%): 0.70

Recovery is 97.0%

Pb ID: AS Position 39 Seq. No.: 00048 A/S Pos.: 39 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 13:57  
Peak Area (A-s): 0.156 Peak Height (A): 0.235  
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.139  
Concentration (ug/L ): 20.2

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 Time: 14:00  
Peak Area (A-s): 0.159 Peak Height (A): 0.234  
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.142  
Concentration (ug/L ): 20.7

Mean Conc (ug/L ): 20.4 SD: 0.30 RSD(%): 1.48

Check sample is within range 17.0 - 23.0

Pb ID: AS Position 40 Seq. No.: 00049 A/S Pos.: 40 Date: 03/30/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 14:03  
Peak Area (A-s): 0.011 Peak Height (A): 0.019  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -2.6

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 14:06  
Peak Area (A-s): 0.013 Peak Height (A): 0.022  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -2.3

Mean Conc (ug/L ): -2.4 SD: 0.20 RSD(%): 8.19

Check sample is within range -3.0 - 3.0

AR100412

1125  
0.21

A1255  
0.35

A1254  
S.P.

A1254  
S  
0.31

A1254  
0.36

LCSS  
1:16/24

PBS

ICB

KV

50.50

4.0

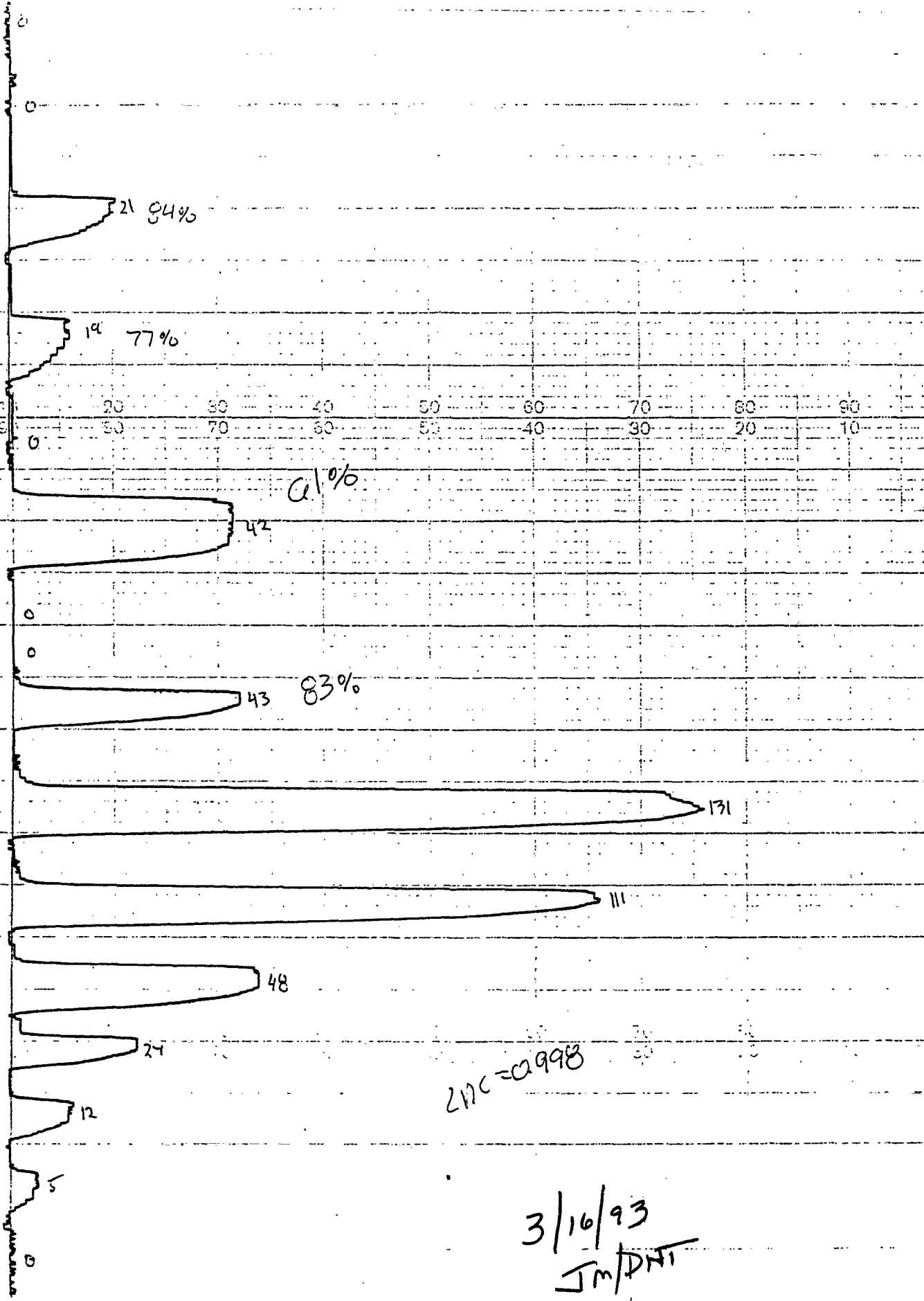
2.0

1.0

0.5

0.2

BLK



CHIA  
KZXR-9

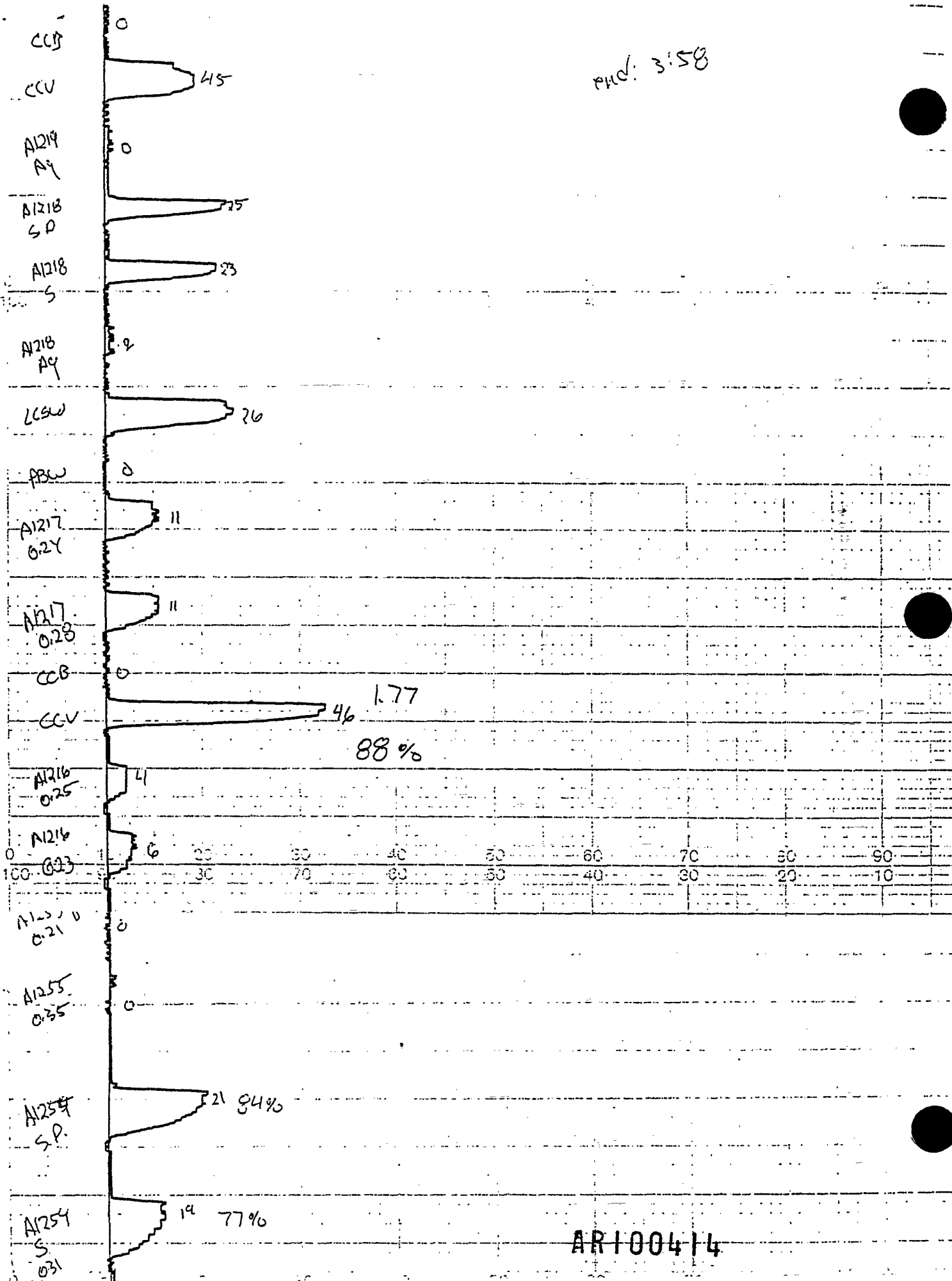
ZINC = 0.998

3/16/93  
JM/DHT

Hg

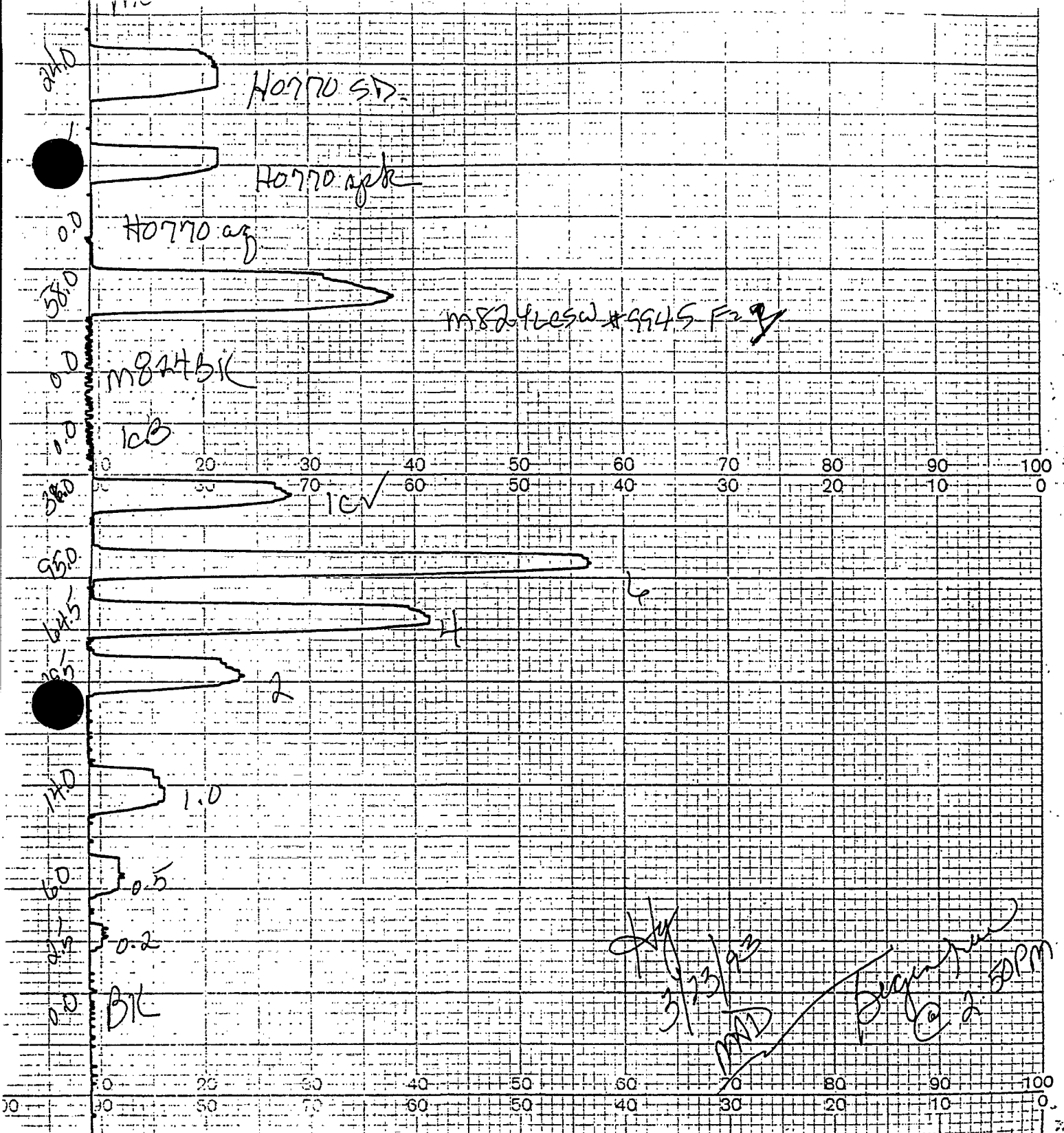
AR100413

PHD: 3:58



AR100414





end New  
@ 3:20 PM

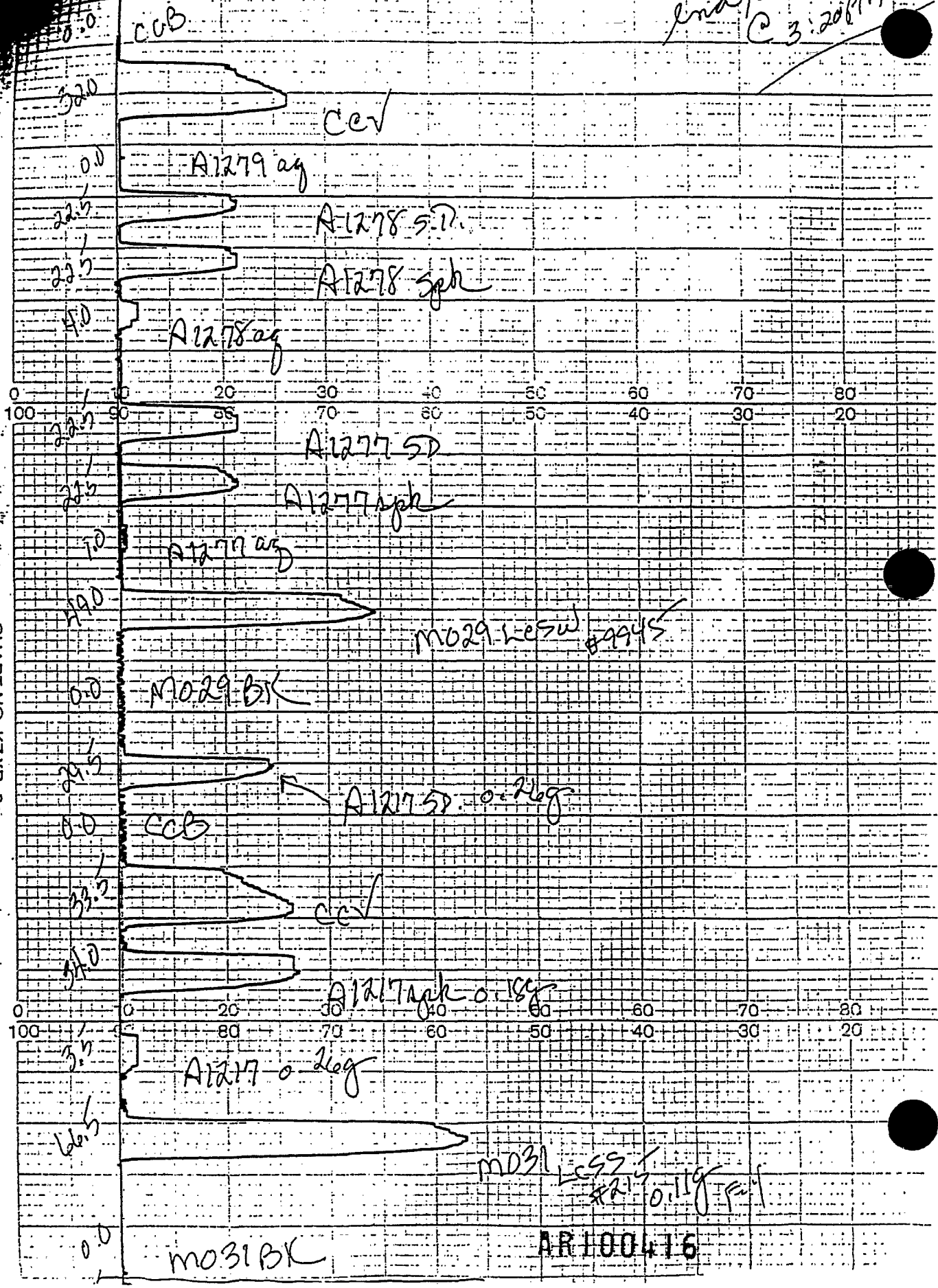


CHART NO. KZXR-9

ccb

cev

A1279 ag

A1278 spk

A1278 spk

A1278 ag

A1277 spk

A1277 spk

A1277 ag

MO29 Lesu 89945

MO29 BK

A1277 spk o. leg

ccb

cev

A1277 agk o. leg

A1277 o. leg

MO31 Lesu 89945  
AR100416

MO31 BK

AR100416

Se ID: Blank

Seq. No.: 00026

A/S Pos.: 0

Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 0

Replicate 1

Time: 15:29

Peak Area (A-s): 0.005

Peak Height (A): 0.008

Background Pk Area (A-s): 0.020

Background PK Height (A): 0.015

AR100417

Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.5

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 2 Time: 15:31  
Peak Area (A-s): 0.000 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.012  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -0.6

Mean Conc (ug/L ): -0.0 SD: 0.76 RSD(%): 3592.13

Auto-zero performed.

-----  
Se ID: Standard 1 Seq. No.: 00027 A/S Pos.: 37 Date: 03/22/93

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 1 Time: 15:34  
Peak Area (A-s): 0.022 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.018  
Blank Corrected Pk Area (A-s): 0.020  
Concentration (ug/L ): 4.8

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 2 Time: 15:36  
Peak Area (A-s): 0.022 Peak Height (A): 0.041  
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 4.7

Mean Conc (ug/L ): 4.8 SD: 0.05 RSD(%): 0.95

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000 Slope: 0.0039 Int: -0.000

-----  
Se ID: Standard 2 Seq. No.: 00028 A/S Pos.: 37 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 1 Time: 15:38  
Peak Area (A-s): 0.045 Peak Height (A): 0.071  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.043  
Concentration (ug/L ): 11.0

AR100418

Replicate 2  
Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.027  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 10.3

Time: 15:41  
Peak Height (A): 0.074  
Background Pk Height (A): 0.024

Mean Conc (ug/L ): 10.7 SD: 0.48 RSD(%): 4.51

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.99937 Slope: 0.0041 Int: -0.000

-----  
Se ID: Standard 3 Seq. No.: 00029 A/S Pos.: 38 Date: 03/22/93

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 1 Time: 15:43  
Peak Area (A-s): 0.114 Peak Height (A): 0.177  
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.111  
Concentration (ug/L ): 27.0

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 2 Time: 15:46  
Peak Area (A-s): 0.119 Peak Height (A): 0.182  
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.054  
Blank Corrected Pk Area (A-s): 0.116  
Concentration (ug/L ): 28.3

Mean Conc (ug/L ): 27.6 SD: 0.89 RSD(%): 3.23

Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99907 Slope: 0.0046 Int: -0.002

-----  
Se ID: Standard 4 Seq. No.: 00030 A/S Pos.: 38 Date: 03/22/93

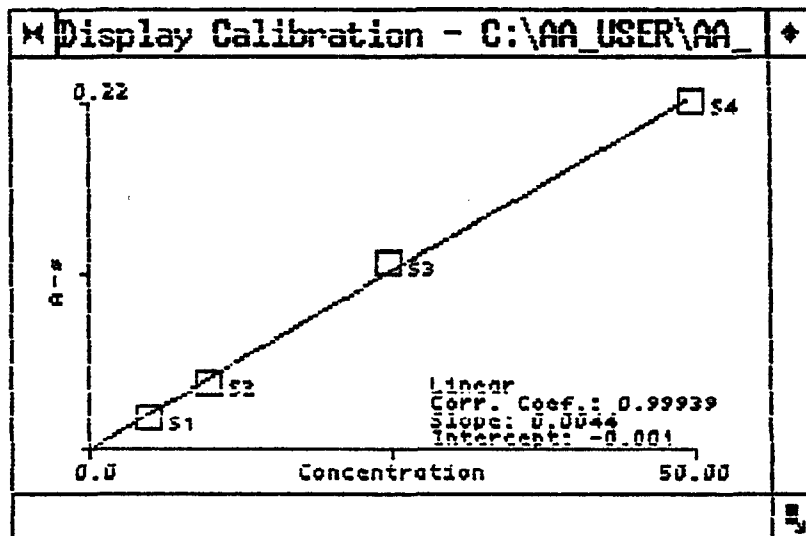
uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 1 Time: 15:48  
Peak Area (A-s): 0.213 Peak Height (A): 0.347  
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.108  
Blank Corrected Pk Area (A-s): 0.211  
Concentration (ug/L ): 46.3

uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 2 Time: 15:51  
Peak Area (A-s): 0.223 Peak Height (A): 0.361  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.108  
Blank Corrected Pk Area (A-s): 0.221  
Concentration (ug/L ): 48.5

Mean Conc (ug/L ): 47.4 SD: 1.56 RSD(%): 3.28

Standard number 4 applied. [50.0]  
Correlation coefficient: 0.99939 Slope: 0.0044 Int: -0.001

AR100419



Se ID: AS Position 39 Seq. No.: 00031 A/S Pos.: 39 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 1 Time: 15:53  
 Peak Area (A-s): 0.097 Peak Height (A): 0.149  
 Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.044  
 Blank Corrected Pk Area (A-s): 0.095  
 Concentration (ug/L ): 21.8

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 2 Time: 15:56  
 Peak Area (A-s): 0.090 Peak Height (A): 0.144  
 Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.045  
 Blank Corrected Pk Area (A-s): 0.088  
 Concentration (ug/L ): 20.2

Mean Conc (ug/L ): 21.0 SD: 1.16 RSD(%): 5.54

Check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00032 A/S Pos.: 40 Date: 03/22/93

AR100420

Peak Area (A-s): 0.012  
Background Pk Area (A-s): 0.012  
Blank Corrected Pk Area (A-s): 0.009  
Concentration (ug/L ): 2.3

Peak Height (A): 0.010  
Background Pk Height (A): 0.009

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2  
Peak Area (A-s): 0.007  
Background Pk Area (A-s): 0.014  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.2

Time: 16:01  
Peak Height (A): 0.008  
Background Pk Height (A): 0.009

Mean Conc (ug/L ): 1.7 SD: 0.80 RSD(%): 46.02

Check sample is within range -3.0 - 3.0

Se ID: CRA Seq. No.: 00033 A/S Pos.: 1 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1  
Peak Area (A-s): 0.028  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 5.9

Time: 16:03  
Peak Height (A): 0.042  
Background Pk Height (A): 0.017

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2  
Peak Area (A-s): 0.025  
Background Pk Area (A-s): 0.021  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 5.3

Time: 16:05  
Peak Height (A): 0.040  
Background Pk Height (A): 0.017

Mean Conc (ug/L ): 5.6 SD: 0.44 RSD(%): 7.82

Se ID: M031 BLANK Seq. No.: 00034 A/S Pos.: 2 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.014  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.9

Time: 16:08  
Peak Height (A): 0.009  
Background Pk Height (A): 0.009

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.012  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): 0.2

Time: 16:10  
Peak Height (A): 0.010  
Background Pk Height (A): 0.009

Mean Conc (ug/L ): 0.6 SD: 0.48 RSD(%): 87.89

Se ID: M031 BLANK Seq. No.: 00035 A/S Pos.: 2 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.043

Time: 16:12  
Peak Height (A): 0.070

AR100421

Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.3

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 2  
Replicate 2 Time: 16:15  
Peak Area (A-s): 0.044 Peak Height (A): 0.071  
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 9.5 SD: 0.26 RSD(%): 2.74

Recovery is 89.8%

Se ID: M031LCSS/F=10 Seq. No.: 00036 A/S Pos.: 3 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 1 Time: 16:17  
Peak Area (A-s): 0.036 Peak Height (A): 0.069  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 7.8

uL dispensed: 10 from 0, 5 from 36, 20 from 3  
Replicate 2 Time: 16:19  
Peak Area (A-s): 0.034 Peak Height (A): 0.068  
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 7.4

Mean Conc (ug/L ): 7.6 SD: 0.28 RSD(%): 3.65

Se ID: M031LCSS/F=10 Seq. No.: 00037 A/S Pos.: 3 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 3  
Replicate 1 Time: 16:22  
Peak Area (A-s): 0.065 Peak Height (A): 0.136  
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.046  
Blank Corrected Pk Area (A-s): 0.062  
Concentration (ug/L ): 14.4

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 3  
Replicate 2 Time: 16:24  
Peak Area (A-s): 0.067 Peak Height (A): 0.146  
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.064  
Concentration (ug/L ): 14.9

Mean Conc (ug/L ): 14.6 SD: 0.33 RSD(%): 2.27

Recovery is 70.6%

Se ID: A1217/1.01 Seq. No.: 00038 A/S Pos.: 4 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 4

AR100422



Peak Area (A-s): 0.031 Peak Height (A): 0.024  
Background Pk Area (A-s): 0.318 Background Pk Height (A): 0.201  
Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 6.7

uL dispensed: 10 from 0, 5 from 36, 20 from 4  
Replicate 2 Time: 16:29  
Peak Area (A-s): 0.024 Peak Height (A): 0.020  
Background Pk Area (A-s): 0.323 Background Pk Height (A): 0.192  
Blank Corrected Pk Area (A-s): 0.022  
Concentration (ug/L ): 5.1

Mean Conc (ug/L ): 5.9 SD: 1.16 RSD(%): 19.53

Se ID: A1217/1.01 Seq. No.: 00039 A/S Pos.: 4 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 4  
Replicate 1 Time: 16:31  
Peak Area (A-s): 0.053 Peak Height (A): 0.043  
Background Pk Area (A-s): 0.334 Background Pk Height (A): 0.201  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 11.7

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 4  
Replicate 2 Time: 16:34  
Peak Area (A-s): 0.053 Peak Height (A): 0.043  
Background Pk Area (A-s): 0.339 Background Pk Height (A): 0.203  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 11.7

Mean Conc (ug/L ): 11.7 SD: 0.00 RSD(%): 0.04

Recovery is 57.7%

Se ID: A1217S/1.07 Seq. No.: 00040 A/S Pos.: 5 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 5  
Replicate 1 Time: 16:36  
Peak Area (A-s): 0.020 Peak Height (A): 0.029  
Background Pk Area (A-s): 0.470 Background Pk Height (A): 0.156  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 4.0

uL dispensed: 10 from 0, 5 from 36, 20 from 5  
Replicate 2 Time: 16:38  
Peak Area (A-s): 0.011 Peak Height (A): 0.018  
Background Pk Area (A-s): 0.430 Background Pk Height (A): 0.155  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 2.0

Mean Conc (ug/L ): 3.0 SD: 1.43 RSD(%): 47.16

Se ID: AS Position 39 Seq. No.: 00041 A/S Pos.: 39 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

AR100423

Replicate 1  
Peak Area (A-s): 0.082  
Background Pk Area (A-s): 0.041  
Blank Corrected Pk Area (A-s): 0.079  
Concentration (ug/L ): 18.3  
Time: 16:41  
Peak Height (A): 0.102  
Background Pk Height (A): 0.033

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2  
Peak Area (A-s): 0.083  
Background Pk Area (A-s): 0.037  
Blank Corrected Pk Area (A-s): 0.081  
Concentration (ug/L ): 18.6  
Time: 16:43  
Peak Height (A): 0.116  
Background Pk Height (A): 0.037

Mean Conc (ug/L ): 18.5 SD: 0.21 RSD(%): 1.12

Check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00042 A/S Pos.: 40 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.0  
Time: 16:46  
Peak Height (A): 0.011  
Background Pk Height (A): 0.012

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): 0.1  
Time: 16:48  
Peak Height (A): 0.009  
Background Pk Height (A): 0.010

Mean Conc (ug/L ): 0.6 SD: 0.69 RSD(%): 124.26

Check sample is within range -3.0 - 3.0

Se ID: A1217SD/1.00 Seq. No.: 00043 A/S Pos.: 6 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 6  
Replicate 1  
Peak Area (A-s): 0.020  
Background Pk Area (A-s): 0.033  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 4.1  
Time: 16:50  
Peak Height (A): 0.027  
Background Pk Height (A): 0.021

uL dispensed: 10 from 0, 5 from 36, 20 from 6  
Replicate 2  
Peak Area (A-s): 0.020  
Background Pk Area (A-s): 0.032  
Blank Corrected Pk Area (A-s): 0.017  
Concentration (ug/L ): 4.0  
Time: 16:53  
Peak Height (A): 0.029  
Background Pk Height (A): 0.022

Mean Conc (ug/L ): 4.1 SD: 0.04 RSD(%): 1.02

AR100424

Se ID: A1215/1.00 Seq. No.: 00044 A/S Pos.: 6 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 1 Time: 16:55  
Peak Area (A-s): 0.026 Peak Height (A): 0.026  
Background Pk Area (A-s): 0.353 Background Pk Height (A): 0.176  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 5.4

uL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 2 Time: 16:58  
Peak Area (A-s): 0.033 Peak Height (A): 0.029  
Background Pk Area (A-s): 0.753 Background Pk Height (A): 0.238  
Blank Corrected Pk Area (A-s): 0.031

Concentration (ug/L ): 7.2

Mean Conc (ug/L ): 6.3 SD: 1.21 RSD(%): 19.29

Se ID: A1216/1.10 Seq. No.: 00045 A/S Pos.: 7 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 7  
Replicate 1 Time: 17:00  
Peak Area (A-s): 0.050 Peak Height (A): 0.045  
Background Pk Area (A-s): 0.847 Background Pk Height (A): 0.313  
Blank Corrected Pk Area (A-s): 0.047  
Concentration (ug/L ): 11.0

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 7  
Replicate 2 Time: 17:03  
Peak Area (A-s): 0.054 Peak Height (A): 0.037  
Background Pk Area (A-s): 0.397 Background Pk Height (A): 0.174  
Blank Corrected Pk Area (A-s): 0.051  
Concentration (ug/L ): 11.9

Mean Conc (ug/L ): 11.4 SD: 0.63 RSD(%): 5.46

Recovery is 51.5%

Se ID: M029 BLANK Seq. No.: 00046 A/S Pos.: 8 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 1 Time: 17:05  
Peak Area (A-s): 0.003 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.3

uL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 2 Time: 17:07  
Peak Area (A-s): 0.002 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): 0.1

Mean Conc (ug/L ): 0.2 SD: 0.12 RSD(%): 56.66

Se ID: M029 BLANK Seq. No.: 00047 A/S Pos.: 8 Date: 03/22/93

AR100425

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 8  
Replicate 1 Time: 17:10  
Peak Area (A-s): 0.040 Peak Height (A): 0.055  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 8.7

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 8  
Replicate 2 Time: 17:13  
Peak Area (A-s): 0.042 Peak Height (A): 0.053  
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.026  
Blank Corrected Pk Area (A-s): 0.039

Concentration (ug/L ): 9.1

Mean Conc (ug/L ): 8.9 SD: 0.27 RSD(%): 3.03

Recovery is 86.8%

Se ID: M029LCSW/F=10 Seq. No.: 00048 A/S Pos.: 9 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 1 Time: 17:15  
Peak Area (A-s): 0.003 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.013  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.3

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 2 Time: 17:17  
Peak Area (A-s): 0.003 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.4

Mean Conc (ug/L ): 0.3 SD: 0.03 RSD(%): 8.35

Se ID: M029LCSW/F=10 Seq. No.: 00049 A/S Pos.: 9 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 9  
Replicate 1 Time: 17:20  
Peak Area (A-s): 0.043 Peak Height (A): 0.061  
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.023  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 9.4

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 9  
Replicate 2 Time: 17:23  
Peak Area (A-s): 0.047 Peak Height (A): 0.064  
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L ): 10.4

Mean Conc (ug/L ): 9.9 SD: 0.67 RSD(%): 6.77

Recovery is 95.8%

*redo w/ less  
dilution  
MAD*

AR100426

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 1 Time: 17:25  
Peak Area (A-s): 0.013 Peak Height (A): 0.014  
Background Pk Area (A-s): 1.477 Background Pk Height (A): 0.427  
Blank Corrected Pk Area (A-s): 0.011  
Concentration (ug/L ): 2.6

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 2 Time: 17:27  
Peak Area (A-s): 0.006 Peak Height (A): 0.014

Background Pk Area (A-s): 0.826 Background Pk Height (A): 0.238  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.0

Mean Conc (ug/L ): 1.8 SD: 1.08 RSD(%): 60.28

Se ID: A1218/AQ Seq. No.: 00051 A/S Pos.: 10 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 10  
Replicate 1 Time: 17:30  
Peak Area (A-s): 0.034 Peak Height (A): 0.043  
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 7.2

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 10  
Replicate 2 Time: 17:33  
Peak Area (A-s): 0.042 Peak Height (A): 0.044  
Background Pk Area (A-s): 0.149 Background Pk Height (A): 0.050  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 8.2 SD: 1.42 RSD(%): 17.23

Recovery is 64.5%

Se ID: AS Position 39 Seq. No.: 00052 A/S Pos.: 39 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 17:35  
Peak Area (A-s): 0.084 Peak Height (A): 0.116  
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.037  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 18.9

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 Time: 17:37  
Peak Area (A-s): 0.075 Peak Height (A): 0.119  
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): 0.072  
Concentration (ug/L ): 16.7

Mean Conc (ug/L ): 17.8 SD: 1.56 RSD(%): 8.77

Check sample is within range 17.0 - 23.0

AR100427

check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00053 A/S Pos.: 40 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 17:40  
Peak Area (A-s): 0.005 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.7

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 2 Time: 17:42  
Peak Area (A-s): 0.006 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.030  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.8

Mean Conc (ug/L ): 0.7 SD: 0.12 RSD(%): 16.36

Check sample is within range -3.0 - 3.0

Se ID: A1218S/AQ Seq. No.: 00054 A/S Pos.: 11 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 1 Time: 17:45  
Peak Area (A-s): 0.047 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.416 Background Pk Height (A): 0.153  
Blank Corrected Pk Area (A-s): 0.045  
Concentration (ug/L ): 10.4

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 2 Time: 17:47  
Peak Area (A-s): 0.044 Peak Height (A): 0.047  
Background Pk Area (A-s): 0.245 Background Pk Height (A): 0.102  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 9.6

Mean Conc (ug/L ): 10.0 SD: 0.60 RSD(%): 6.03

Se ID: A1218SD/AQ Seq. No.: 00055 A/S Pos.: 12 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 1 Time: 17:50  
Peak Area (A-s): 0.044 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.347 Background Pk Height (A): 0.147  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 9.6

uL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 2 Time: 17:52  
Peak Area (A-s): 0.041 Peak Height (A): 0.051  
Background Pk Area (A-s): 0.876 Background Pk Height (A): 0.254  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 8.8

AR100428

uL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 1 Time: 17:54  
Peak Area (A-s): 0.009 Peak Height (A): 0.013  
Background Pk Area (A-s): 1.311 Background Pk Height (A): 0.347  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 1.7

uL dispensed: 10 from 0, 5 from 36, 20 from 13

Replicate 2 Time: 17:57  
Peak Area (A-s): 0.004 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.6

Mean Conc (ug/L ): 1.1 SD: 0.81 RSD(%): 72.03

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 13  
Replicate 1 Time: 17:59  
Peak Area (A-s): 0.041 Peak Height (A): 0.041  
Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 8.9

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 13  
Replicate 2 Time: 18:02  
Peak Area (A-s): 0.042 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.045  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 9.1 SD: 0.27 RSD(%): 2.93

Recovery is 79.8%

uL dispensed: 10 from 0, 5 from 36, 20 from 14  
Replicate 1 Time: 18:04  
Peak Area (A-s): 0.007 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.1

uL dispensed: 10 from 0, 5 from 36, 20 from 14  
Replicate 2 Time: 18:07  
Peak Area (A-s): 0.006 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 1.0

Se ID: A1277/AQ Seq. No.: 00059 A/S Pos.: 14 Date: 03/22/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 14

Replicate 1 Time: 18:09  
Peak Area (A-s): 0.042 Peak Height (A): 0.042  
Background Pk Area (A-s): 0.580 Background Pk Height (A): 0.196  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.3

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 14

Replicate 2 Time: 18:12  
Peak Area (A-s): 0.043 Peak Height (A): 0.045  
Background Pk Area (A-s): 0.192 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 9.3 SD: 0.02 RSD(%): 0.24

Recovery is 82.4%

Se ID: A1277S/AQ Seq. No.: 00060 A/S Pos.: 15 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 15

Replicate 1 Time: 18:14  
Peak Area (A-s): 0.042 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.086  
Blank Corrected Pk Area (A-s): 0.039  
Concentration (ug/L ): 9.2

uL dispensed: 10 from 0, 5 from 36, 20 from 15

Replicate 2 Time: 18:16  
Peak Area (A-s): 0.040 Peak Height (A): 0.045  
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.084  
Blank Corrected Pk Area (A-s): 0.038  
Concentration (ug/L ): 8.8

Mean Conc (ug/L ): 9.0 SD: 0.24 RSD(%): 2.69

Se ID: AS Position 39 Seq. No.: 00061 A/S Pos.: 39 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 1 Time: 18:19  
Peak Area (A-s): 0.078 Peak Height (A): 0.100  
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.039  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 17.4

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 2 Time: 18:21  
Peak Area (A-s): 0.085 Peak Height (A): 0.122  
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.041  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 19.0

AR100430



Check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00062 A/S Pos.: 40 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 18:24  
Peak Area (A-s): 0.009 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.012  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 1.5

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 18:26  
Peak Area (A-s): 0.003 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.010  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): 0.1

Mean Conc (ug/L ): 0.8 SD: 0.98 RSD(%): 117.42

Check sample is within range -3.0 - 3.0

Se ID: A1277SD/AQ Seq. No.: 00063 A/S Pos.: 16 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 16  
Replicate 1 Time: 18:28  
Peak Area (A-s): 0.039 Peak Height (A): 0.043  
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.036  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 8.4

uL dispensed: 10 from 0, 5 from 36, 20 from 16  
Replicate 2 Time: 18:31  
Peak Area (A-s): 0.044 Peak Height (A): 0.039  
Background Pk Area (A-s): 0.266 Background Pk Height (A): 0.098  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 9.1 SD: 0.89 RSD(%): 9.76

Se ID: A1278/AQ Seq. No.: 00064 A/S Pos.: 17 Date: 03/22/93

uL dispensed: 10 from 0, 5 from 36, 20 from 17  
Replicate 1 Time: 18:33  
Peak Area (A-s): 0.016 Peak Height (A): 0.016  
Background Pk Area (A-s): 1.139 Background Pk Height (A): 0.341  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 3.2

uL dispensed: 10 from 0, 5 from 36, 20 from 17  
Replicate 2 Time: 18:36  
Peak Area (A-s): 0.008 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.386 Background Pk Height (A): 0.187  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 1.4

AR100431

Se  
3/23/93  
MAD

25100  
Pg 202-203

Se ID: Blank Seq. No.: 00001 A/S Pos.: 0 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 1 Time: 07:30  
Peak Area (A-s): 0.008 Peak Height (A): 0.012  
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.079  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.3

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 2 Time: 07:33  
Peak Area (A-s): 0.006 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.014  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.9

Mean Conc (ug/L ): 1.1 SD: 0.32 RSD(%): 28.98

Auto-zero performed.

Se ID: Standard 1 Seq. No.: 00002 A/S Pos.: 37 Date: 03/23/93

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 1 Time: 07:35  
Peak Area (A-s): 0.026 Peak Height (A): 0.032  
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.016  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 4.5

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 2 Time: 07:37  
Peak Area (A-s): 0.026 Peak Height (A): 0.034  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.017  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 4.4

Mean Conc (ug/L ): 4.4 SD: 0.03 RSD(%): 0.58

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000 Slope: 0.0038 Int: 0.000

Se ID: Standard 2 Seq. No.: 00003 A/S Pos.: 37 Date: 03/23/93

AR100432

Replicate 1  
Peak Area (A-s): 0.049

Time: 07:40  
Peak Height (A): 0.070

Background Pk Area (A-s): 0.028  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 11.1

Background Pk Height (A): 0.026

uL dispensed: 10 from 0, 5 from 36, 20 from 37

Replicate 2

Time: 07:42

Peak Area (A-s): 0.043

Peak Height (A): 0.067

Background Pk Area (A-s): 0.031

Background Pk Height (A): 0.024

Blank Corrected Pk Area (A-s): 0.036

Concentration (ug/L ): 9.6

Mean Conc (ug/L ): 10.4

SD: 1.07

RSD(%): 10.28

Standard number 2 applied. [10.0]

Correlation coefficient: 0.99979

Slope: 0.0039

Int: -0.000

Se ID: Standard 3

Seq. No.: 00004

A/S Pos.: 38

Date: 03/23/93

uL dispensed: 20 from 0, 5 from 36, 10 from 38

AR100433

Replicate 1  
Peak Area (A-s): 0.118  
Background Pk Area (A-s): 0.054  
Blank Corrected Pk Area (A-s): 0.111  
Concentration (ug/L ): 28.5  
Time: 07:45  
Peak Height (A): 0.185  
Background Pk Height (A): 0.058

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 2  
Peak Area (A-s): 0.118  
Background Pk Area (A-s): 0.057  
Blank Corrected Pk Area (A-s): 0.112  
Concentration (ug/L ): 28.6  
Time: 07:47  
Peak Height (A): 0.202  
Background Pk Height (A): 0.067

Mean Conc (ug/L ): 28.6 SD: 0.04 RSD(%): 0.13

Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99852 Slope: 0.0045 Int: -0.003

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Se ID: Standard 4 Seq. No.: 00005 A/S Pos.: 38 Date: 03/23/93

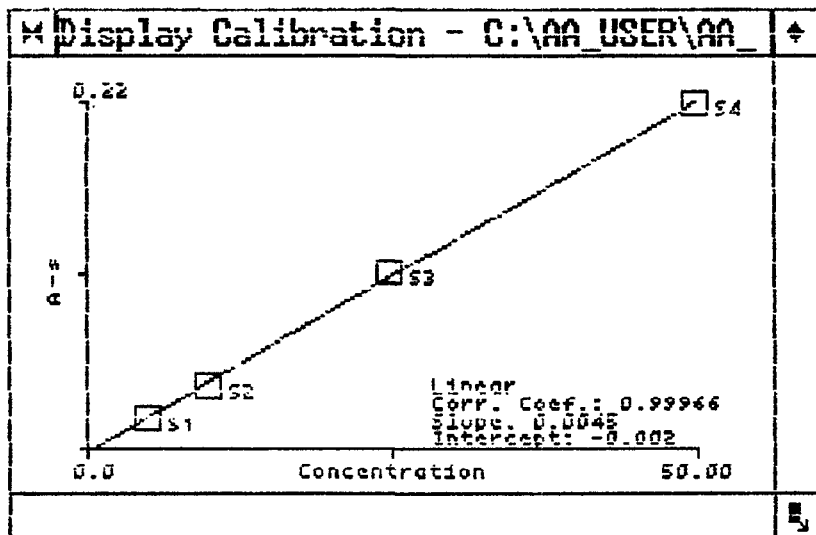
uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 1  
Peak Area (A-s): 0.224  
Background Pk Area (A-s): 0.082  
Blank Corrected Pk Area (A-s): 0.217  
Concentration (ug/L ): 48.8  
Time: 07:49  
Peak Height (A): 0.349  
Background Pk Height (A): 0.108

uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 2  
Peak Area (A-s): 0.231  
Background Pk Area (A-s): 0.083  
Blank Corrected Pk Area (A-s): 0.224  
Concentration (ug/L ): 50.3  
Time: 07:52  
Peak Height (A): 0.335  
Background Pk Height (A): 0.105

Mean Conc (ug/L ): 49.5 SD: 1.03 RSD(%): 2.07

Standard number 4 applied. [50.0]  
Correlation coefficient: 0.99966 Slope: 0.0045 Int: -0.002

AR100434



Se ID: AS Position 39 Seq. No.: 00006 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 1 Time: 07:55  
 Peak Area (A-s): 0.101 Peak Height (A): 0.143  
 Background PK Area (A-s): 0.043 Background PK Height (A): 0.046  
 Blank Corrected PK Area (A-s): 0.094  
 Concentration (ug/L ): 21.6

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 2 Time: 07:57  
 Peak Area (A-s): 0.095 Peak Height (A): 0.137  
 Background PK Area (A-s): 0.043 Background PK Height (A): 0.044  
 Blank Corrected PK Area (A-s): 0.089  
 Concentration (ug/L ): 20.4

Conc (ug/L ): 21.0 SD: 0.88 RSD(%): 4.18

Check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00007 A/S Pos.: 40 Date: 03/23/93

AR100435

Replicate 1  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): 0.3  
Time: 08:00  
Peak Height (A): 0.012  
Background Pk Height (A): 0.012

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2  
Peak Area (A-s): 0.009  
Background Pk Area (A-s): 0.015  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 1.0  
Time: 08:02  
Peak Height (A): 0.011  
Background Pk Height (A): 0.010

Mean Conc (ug/L ): 0.6 SD: 0.50 RSD(%): 81.50

Check sample is within range -3.0 - 3.0

Se ID: CRA Seq. No.: 00008 A/S Pos.: 1 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1  
Peak Area (A-s): 0.031  
Background Pk Area (A-s): 0.027  
Blank Corrected Pk Area (A-s): 0.024  
Concentration (ug/L ): 6.0  
Time: 08:04  
Peak Height (A): 0.044  
Background Pk Height (A): 0.020

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2  
Peak Area (A-s): 0.034  
Background Pk Area (A-s): 0.024  
Blank Corrected Pk Area (A-s): 0.027  
Concentration (ug/L ): 6.6  
Time: 08:07  
Peak Height (A): 0.051  
Background Pk Height (A): 0.020

Mean Conc (ug/L ): 6.3 SD: 0.44 RSD(%): 7.01

Se ID: ~~M031LCS/F=4~~ <sup>M029LCSW/ag F=4</sup> Seq. No.: 00009 A/S Pos.: 2 Date: 03/23/93  
*MAD*

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.136  
Background Pk Area (A-s): 0.058  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 29.5  
Time: 08:09  
Peak Height (A): 0.217  
Background Pk Height (A): 0.068

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2  
Peak Area (A-s): 0.137  
Background Pk Area (A-s): 0.062  
Blank Corrected Pk Area (A-s): 0.130  
Concentration (ug/L ): 29.7  
Time: 08:11  
Peak Height (A): 0.229  
Background Pk Height (A): 0.075

Mean Conc (ug/L ): 29.6 SD: 0.18 RSD(%): 0.62

Se ID: ~~M031LCS/F=4~~ <sup>M029LCSW/ag F=4</sup> Seq. No.: 00010 A/S Pos.: 2 Date: 03/23/93  
*MAD*

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.182  
Peak Height (A): 0.277  
Time: 08:14

AR100436

Blank Corrected Pk Area (A-s): 0.176  
Concentration (ug/L ): 39.8

Background Pk Height (A): 0.085

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 2

Replicate 2

Time: 08:16

Peak Area (A-s): 0.185

Peak Height (A): 0.288

Background Pk Area (A-s): 0.070

Background Pk Height (A): 0.085

Blank Corrected Pk Area (A-s): 0.178

Concentration (ug/L ): 40.3

Mean Conc (ug/L ): 40.1

SD: 0.36

RSD(%): 0.90

Recovery is 104.7%

Se ID: M824LCS/F=4

Seq. No.: 00011

A/S Pos.: 3

Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 3

Replicate 1

Time: 08:18

Peak Area (A-s): 0.172

Peak Height (A): 0.284

Background Pk Area (A-s): 0.068

Background Pk Height (A): 0.084

Blank Corrected Pk Area (A-s): 0.165

Concentration (ug/L ): 37.4

uL dispensed: 10 from 0, 5 from 36, 20 from 3

Replicate 2

Time: 08:21

Peak Area (A-s): 0.170

Peak Height (A): 0.268

Background Pk Area (A-s): 0.067

Background Pk Height (A): 0.084

Blank Corrected Pk Area (A-s): 0.163

Concentration (ug/L ): 37.0

Mean Conc (ug/L ): 37.2

SD: 0.31

RSD(%): 0.83

Se ID: M824LCS/F=4

Seq. No.: 00012

A/S Pos.: 3

Date: 03/23/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 3

Replicate 1

Time: 08:23

Peak Area (A-s): 0.220

Peak Height (A): 0.356

Background Pk Area (A-s): 0.087

Background Pk Height (A): 0.109

Blank Corrected Pk Area (A-s): 0.214

Concentration (ug/L ): 48.4

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 3

Replicate 2

Time: 08:26

Peak Area (A-s): 0.214

Peak Height (A): 0.340

Background Pk Area (A-s): 0.082

Background Pk Height (A): 0.106

Blank Corrected Pk Area (A-s): 0.207

Concentration (ug/L ): 47.0

Mean Conc (ug/L ): 47.7

SD: 1.00

RSD(%): 2.10

Recovery is 104.4%

Se ID: A1290/1.03

Seq. No.: 00013

A/S Pos.: 4

Date: 03/23/93

AR100437

Peak Area (A-s): 0.020 Peak Height (A): 0.021  
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.104  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 3.5

uL dispensed: 10 from 0, 5 from 36, 20 from 4  
Replicate 2 Time: 08:30  
Peak Area (A-s): 0.021 Peak Height (A): 0.022  
Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.140  
Blank Corrected Pk Area (A-s): 0.014  
Concentration (ug/L ): 3.7

Mean Conc (ug/L ): 3.6 SD: 0.08 RSD(%): 2.31

Se ID: A1290/1.03 Seq. No.: 00014 A/S Pos.: 4 Date: 03/23/93

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 4  
Replicate 1 Time: 08:33  
Peak Area (A-s): 0.036 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.127  
Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 7.0

uL dispensed: 5 from 0, 5 from 36, 5 from 35, 20 from 4  
Replicate 2 Time: 08:35  
Peak Area (A-s): 0.032 Peak Height (A): 0.046  
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 6.2

Mean Conc (ug/L ): 6.6 SD: 0.57 RSD(%): 8.56

Recovery is 30.0%

Se ID: AS Position 39 Seq. No.: 00015 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 08:38  
Peak Area (A-s): 0.094 Peak Height (A): 0.143  
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.047  
Blank Corrected Pk Area (A-s): 0.088  
Concentration (ug/L ): 20.2

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 Time: 08:40  
Peak Area (A-s): 0.091 Peak Height (A): 0.160  
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.085  
Concentration (ug/L ): 19.5

Mean Conc (ug/L ): 19.8 SD: 0.47 RSD(%): 2.38

Check sample is within range 17.0 - 23.0

Se ID: AS Position 40 Seq. No.: 00016 A/S Pos.: 40 Date: 03/23/93

AR100438



uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 08:42  
Peak Area (A-s): 0.009 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 1.1

Dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 Time: 08:46  
Peak Area (A-s): 0.008 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.7

Mean Conc (ug/L ): 0.9 SD: 0.26 RSD(%): 29.16

Check sample is within range -3.0 - 3.0

Se ID: AS Position 39 Seq. No.: 00017 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 10 from 39  
Replicate 1 Time: 08:49  
Peak Area (A-s): 0.051 Peak Height (A): 0.079  
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.029  
Blank Corrected Pk Area (A-s): 0.051

Se ID: AS Position 40 Seq. No.: 00018 A/S Pos.: 40 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 10 from 40  
Replicate 1 Time: 08:52  
Peak Area (A-s): 0.007 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.011  
Blank Corrected Pk Area (A-s): 0.007

Se ID: A1217/1.01/F=2 Seq. No.: 00019 A/S Pos.: 1 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 10 from 1  
Replicate 1 Time: 08:54  
Peak Area (A-s): 0.012 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.060  
Blank Corrected Pk Area (A-s): 0.012

Se ID: A1216/1.10/F=2 Seq. No.: 00020 A/S Pos.: 2 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 10 from 2  
Replicate 1 Time: 08:56  
Peak Area (A-s): 0.012 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.053  
Blank Corrected Pk Area (A-s): 0.012

Se ID: A1255/1.22 Seq. No.: 00021 A/S Pos.: 3 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 10 from 2

AR100439

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 1 Time: 15:04  
Peak Area (A-s): 0.005 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.010  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.9

uL dispensed: 10 from 0, 5 from 36, 20 from 0  
Replicate 2 (Peak Stored) Time: 15:07  
Peak Area (A-s): 0.002 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.6

Mean Conc (ug/L ): -1.2 SD: 0.52 RSD(%): 41.88

Auto-zero performed.

TI ID: Standard 1 Seq. No.: 00002 A/S Pos.: 37 Date: 03/23/93

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 1 Time: 15:10  
Peak Area (A-s): 0.028 Peak Height (A): 0.060  
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.043  
Blank Corrected Pk Area (A-s): 0.024  
Concentration (ug/L ): 4.5

uL dispensed: 20 from 0, 5 from 36, 10 from 37  
Replicate 2 (Peak Stored) Time: 15:12  
Peak Area (A-s): 0.026 Peak Height (A): 0.052  
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.042  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 4.0

Mean Conc (ug/L ): 4.2 SD: 0.30 RSD(%): 7.02

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000 Slope: 0.0047 Int: -0.000

II ID: Standard 2 Seq. No.: 00003 A/S Pos.: 37 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 1 Time: 15:15  
Peak Area (A-s): 0.062 Peak Height (A): 0.101  
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.073

AR100440

Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 10.3

Blank Corrected Pk Height (A): 0.079

uL dispensed: 10 from 0, 5 from 36, 20 from 37  
Replicate 2 (Peak Stored) Time: 15:18  
Peak Area (A-s): 0.050 Peak Height (A): 0.105  
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.080  
Blank Corrected Pk Area (A-s): 0.046  
Concentration (ug/L ): 9.9

Mean Conc (ug/L ): 10.1 SD: 0.28 RSD(%): 2.81

Standard number 2 applied. [10.0]  
Correlation coefficient: 0.99999 Slope: 0.0047 Int: -0.000

TI ID: Standard 3 Seq. No.: 00004 A/S Pos.: 38 Date: 03/23/93

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 1 Time: 15:21  
Peak Area (A-s): 0.126 Peak Height (A): 0.229  
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.209  
Blank Corrected Pk Area (A-s): 0.123  
Concentration (ug/L ): 26.0

uL dispensed: 20 from 0, 5 from 36, 10 from 38  
Replicate 2 (Peak Stored) Time: 15:23  
Peak Area (A-s): 0.126 Peak Height (A): 0.250  
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.210  
Blank Corrected Pk Area (A-s): 0.123  
Concentration (ug/L ): 26.0

Mean Conc (ug/L ): 26.0 SD: 0.02 RSD(%): 0.09

Standard number 3 applied. [25.0]  
Correlation coefficient: 0.99985 Slope: 0.0049 Int: -0.001

TI ID: Standard 4 Seq. No.: 00005 A/S Pos.: 38 Date: 03/23/93

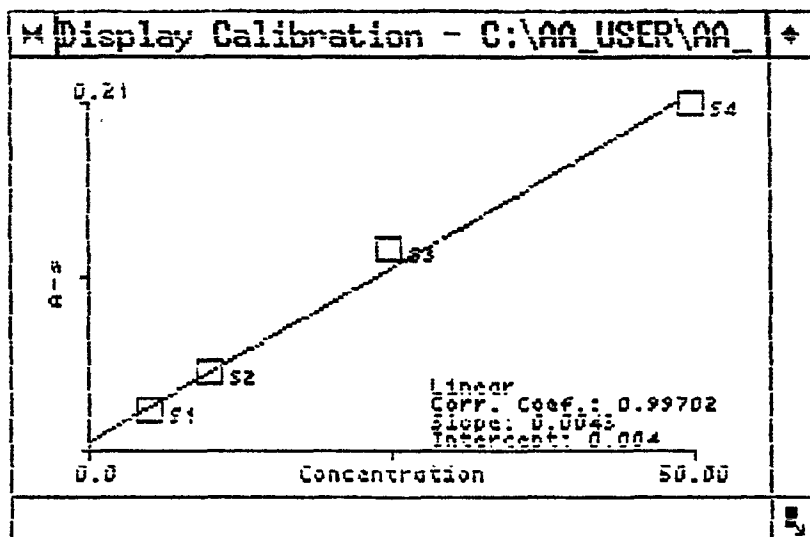
uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 1 Time: 15:26  
Peak Area (A-s): 0.218 Peak Height (A): 0.385  
Background Pk Area (A-s): 0.200 Background Pk Height (A): 0.390  
Blank Corrected Pk Area (A-s): 0.215  
Concentration (ug/L ): 43.8

uL dispensed: 10 from 0, 5 from 36, 20 from 38  
Replicate 2 (Peak Stored) Time: 15:29  
Peak Area (A-s): 0.215 Peak Height (A): 0.383  
Background Pk Area (A-s): 0.201 Background Pk Height (A): 0.375  
Blank Corrected Pk Area (A-s): 0.212  
Concentration (ug/L ): 43.2

Mean Conc (ug/L ): 43.5 SD: 0.43 RSD(%): 0.99

Standard number 4 applied. [50.0]

AR100441



TI ID: AS Position 39 Seq. No.: 00006 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 1 Time: 15:32  
 Peak Area (A-s): 0.102 Peak Height (A): 0.190  
 Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.160  
 Blank Corrected PK Area (A-s): 0.099  
 Concentration (ug/L ): 22.0

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
 Replicate 2 (Peak Stored) Time: 15:35  
 Peak Area (A-s): 0.094 Peak Height (A): 0.177  
 Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.145  
 Blank Corrected PK Area (A-s): 0.090  
 Concentration (ug/L ): 20.1

Mean Conc (ug/L ): 21.1 SD: 1.35 RSD(%): 6.41

Check sample is within range 17.0 - 23.0

AR100442

TI ID: AS Position 40 Seq. No.: 00007 A/S Pos.: 40 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.006  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.2

Time: 15:38  
Peak Height (A): 0.010  
Background Pk Height (A): 0.010

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.004  
Blank Corrected Pk Area (A-s): -0.006  
Concentration (ug/L ): -2.3

Time: 15:41  
Peak Height (A): 0.009  
Background Pk Height (A): 0.010

Mean Conc (ug/L ): -1.7 SD: 0.74 RSD(%): 42.74

Check sample is within range -5.0 - 5.0

TI ID: CRA Seq. No.: 00008 A/S Pos.: 1 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 1  
Peak Area (A-s): 0.054  
Background Pk Area (A-s): 0.044  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 10.8

Time: 15:43  
Peak Height (A): 0.098  
Background Pk Height (A): 0.081

uL dispensed: 10 from 0, 5 from 36, 20 from 1  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.054  
Background Pk Area (A-s): 0.046  
Blank Corrected Pk Area (A-s): 0.050  
Concentration (ug/L ): 10.7

Time: 15:46  
Peak Height (A): 0.107  
Background Pk Height (A): 0.086

Mean Conc (ug/L ): 10.8 SD: 0.08 RSD(%): 0.77

TI ID: M031 BLANK Seq. No.: 00009 A/S Pos.: 2 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.003  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.6

Time: 15:49  
Peak Height (A): 0.009  
Background Pk Height (A): 0.010

uL dispensed: 10 from 0, 5 from 36, 20 from 2  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.002  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -1.5

Time: 15:51  
Peak Height (A): 0.007  
Background Pk Height (A): 0.008

Mean Conc (ug/L ): -1.5 SD: 0.01 RSD(%): 0.43

TI ID: M031 BLANK Seq. No.: 00010 A/S Pos.: 2 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 1  
Peak Area (A-s): 0.092

Time: 15:54  
Peak Height (A): 0.182

AR100443

Blank Corrected Pk Area (A-s): 0.088  
Concentration (ug/L ): 19.6

uL dispensed: 5 from 36, 10 from 35, 20 from 2  
Replicate 2 (Peak Stored) Time: 15:57  
Peak Area (A-s): 0.096 Peak Height (A): 0.185  
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.154  
Blank Corrected Pk Area (A-s): 0.093  
Concentration (ug/L ): 20.6

Mean Conc (ug/L ): 20.1 SD: 0.74 RSD(%): 3.69

Recovery is 108.3%

TI ID: M031LCS/.25/F4 Seq. No.: 00011 A/S Pos.: 3 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 3  
Sample abs. is greater than that of the largest standard.  
Replicate 1 Time: 15:59  
Peak Area (A-s): 0.259 Peak Height (A): 0.464  
Background Pk Area (A-s): 0.259 Background Pk Height (A): 0.531  
Blank Corrected Pk Area (A-s): 0.255  
Concentration (ug/L ): 58.4

TI ID: M031LCS/.25/F4 Seq. No.: 00012 A/S Pos.: 3 Date: 03/23/93

uL dispensed: 25 from 0, 5 from 36, 5 from 3  
Replicate 1 Time: 16:02  
Peak Area (A-s): 0.112 Peak Height (A): 0.216  
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.185  
Blank Corrected Pk Area (A-s): 0.108  
Concentration (ug/L ): 24.2 Corrected Conc (ug/L ): 96.9

uL dispensed: 25 from 0, 5 from 36, 5 from 3  
Replicate 2 (Peak Stored) Time: 16:05  
Peak Area (A-s): 0.104 Peak Height (A): 0.214  
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.180  
Blank Corrected Pk Area (A-s): 0.101  
Concentration (ug/L ): 22.5 Corrected Conc (ug/L ): 90.1

Mean Conc (ug/L ): 23.4 SD: 1.20 RSD(%): 5.14  
Corrected Conc (ug/L ): 93.5

*149.6mg/kg / 140 x 100 = 107%*

TI ID: M031LCS/.25/F4 Seq. No.: 00013 A/S Pos.: 3 Date: 03/23/93

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 3  
Replicate 1 Time: 16:07  
Peak Area (A-s): 0.184 Peak Height (A): 0.347  
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.329  
Blank Corrected Pk Area (A-s): 0.180  
Concentration (ug/L ): 41.0 Corrected Conc (ug/L ): 164.0

uL dispensed: 15 from 0, 5 from 36, 10 from 35, 5 from 3  
Replicate 2 (Peak Stored) Time: 16:10  
Peak Area (A-s): 0.191 Peak Height (A): 0.355

AR100444

Blank Corrected PK Area (A-s): 0.0187  
Concentration (ug/L ): 42.5

Corrected Conc (ug/L ): 170.3

Mean Conc (ug/L ): 41.8  
Corrected Conc (ug/L ): 167.1

SD: 1.11 RSD(%): 2.66

Recovery is 92.0%

TI ID: A1217/1.01 Seq. No.: 00014 A/S Pos.: 4 Date: 03/23/93

µL dispensed: 10 from 0, 5 from 36, 20 from 4

Replicate 1  
Peak Area (A-s): 0.026  
Background PK Area (A-s): 0.153  
Blank Corrected PK Area (A-s): 0.023  
Concentration (ug/L ): 4.3

Time: 16:13  
Peak Height (A): 0.051  
Background PK Height (A): 0.082

µL dispensed: 10 from 0, 5 from 36, 20 from 4

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.033  
Background PK Area (A-s): 0.060  
Blank Corrected PK Area (A-s): 0.030  
Concentration (ug/L ): 6.0

Time: 16:15  
Peak Height (A): 0.064  
Background PK Height (A): 0.054

Mean Conc (ug/L ): 5.1

SD: 1.14 RSD(%): 22.24

TI ID: A1217/1.01 Seq. No.: 00015 A/S Pos.: 4 Date: 03/23/93

µL dispensed: 5 from 36, 10 from 35, 20 from 4

Replicate 1  
Peak Area (A-s): 0.119  
Background PK Area (A-s): 0.116  
Blank Corrected PK Area (A-s): 0.115  
Concentration (ug/L ): 25.9

Time: 16:18  
Peak Height (A): 0.218  
Background PK Height (A): 0.191

µL dispensed: 5 from 36, 10 from 35, 20 from 4

Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.114  
Background PK Area (A-s): 0.104  
Blank Corrected PK Area (A-s): 0.111  
Concentration (ug/L ): 24.8

Time: 16:21  
Peak Height (A): 0.195  
Background PK Height (A): 0.169

Mean Conc (ug/L ): 25.4

SD: 0.72 RSD(%): 2.84

Recovery is 101.1%

TI ID: A1217S/1.07/F=4 Seq. No.: 00016 A/S Pos.: 5 Date: 03/23/93

µL dispensed: 10 from 0, 5 from 36, 20 from 5

Replicate 1  
Peak Area (A-s): 0.091  
Background PK Area (A-s): 0.075  
Blank Corrected PK Area (A-s): 0.087  
Concentration (ug/L ): 19.3

Time: 16:24  
Peak Height (A): 0.122  
Background PK Height (A): 0.105

AR100445

Peak Area (A-s): 0.090  
Background Pk Area (A-s): 0.078  
Blank Corrected Pk Area (A-s): 0.086  
Concentration (ug/L ): 19.1

Peak Height (A): 0.124  
Background Pk Height (A): 0.103

Mean Conc (ug/L ): 19.2 *Handwritten: 19.2 x 4 = 76.8* SD: 0.20 RSD(%): 1.02

TI ID: AS Position 39 Seq. No.: 00017 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 1 Time: 16:29  
Peak Area (A-s): 0.099 Peak Height (A): 0.186  
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.156  
Blank Corrected Pk Area (A-s): 0.095  
Concentration (ug/L ): 21.2

uL dispensed: 10 from 0, 5 from 36, 20 from 39

Replicate 2 (Peak Stored) Time: 16:32  
Peak Area (A-s): 0.100 Peak Height (A): 0.188  
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.155  
Blank Corrected Pk Area (A-s): 0.097  
Concentration (ug/L ): 21.6

Mean Conc (ug/L ): 21.4 SD: 0.27 RSD(%): 1.26

Check sample is within range 17.0 - 23.0

TI ID: AS Position 40 Seq. No.: 00018 A/S Pos.: 40 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 1 Time: 16:35  
Peak Area (A-s): 0.002 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.4

uL dispensed: 10 from 0, 5 from 36, 20 from 40

Replicate 2 (Peak Stored) Time: 16:37  
Peak Area (A-s): -0.001 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.007  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.9

Mean Conc (ug/L ): -1.6 SD: 0.40 RSD(%): 24.52

Check sample is within range -5.0 - 5.0

TI ID: A1217SD/1.0/F=4 Seq. No.: 00019 A/S Pos.: 6 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 6

Replicate 1 Time: 16:40  
Peak Area (A-s): 0.086 Peak Height (A): 0.111  
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.083  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 19.4

AR100446



uL dispensed: 10 from 0, 5 from 36, 20 from 6  
Replicate 2 (Peak Stored) Time: 16:43  
Peak Area (A-s): 0.082 Peak Height (A): 0.105  
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.090  
Blank Corrected Pk Area (A-s): 0.079  
Concentration (ug/L ): 17.4

Mean Conc (ug/L ): 17.9 *71.6* SD: 0.69 RSD(%): 3.85

TI ID: A1216/1.10 Seq. No.: 00020 A/S Pos.: 7 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 1 Time: 16:46  
Peak Area (A-s): 0.045 Peak Height (A): 0.097  
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.095  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 8.8

uL dispensed: 10 from 0, 5 from 36, 20 from 7  
Replicate 2 (Peak Stored) Time: 16:48  
Peak Area (A-s): 0.030 Peak Height (A): 0.067  
Background Pk Area (A-s): 0.240 Background Pk Height (A): 0.134  
Blank Corrected Pk Area (A-s): 0.027  
Concentration (ug/L ): 5.2

Mean Conc (ug/L ): 7.0 *SD* SD: 2.49 RSD(%): 35.60

TI ID: A1216/1.10 Seq. No.: 00021 A/S Pos.: 7 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 7  
Replicate 1 Time: 16:51  
Peak Area (A-s): 0.130 Peak Height (A): 0.260  
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.229  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 28.5

uL dispensed: 5 from 36, 10 from 35, 20 from 7  
Replicate 2 (Peak Stored) Time: 16:54  
Peak Area (A-s): 0.144 Peak Height (A): 0.276  
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.262  
Blank Corrected Pk Area (A-s): 0.140  
Concentration (ug/L ): 31.7

Mean Conc (ug/L ): 30.1 SD: 2.25 RSD(%): 7.45

Recovery is 115.7%

TI ID: MU29 BLANK Seq. No.: 00022 A/S Pos.: 8 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 1 Time: 16:57  
Peak Area (A-s): 0.002 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.2

AR100447

uL dispensed: 10 from 0, 5 from 36, 20 from 8  
Replicate 2 (Peak Stored) Time: 16:59  
Peak Area (A-s): 0.001 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.5

Mean Conc (ug/L ): -1.3 SD: 0.17 RSD(%): 12.84

TI ID: M029 BLANK Seq. No.: 00023 A/S Pos.: 8 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 8  
Replicate 1 Time: 17:02  
Peak Area (A-s): 0.096 Peak Height (A): 0.186  
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.147  
Blank Corrected Pk Area (A-s): 0.092  
Concentration (ug/L ): 20.5

uL dispensed: 5 from 36, 10 from 35, 20 from 8  
Replicate 2 (Peak Stored) Time: 17:05  
Peak Area (A-s): 0.098 Peak Height (A): 0.183  
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.151  
Blank Corrected Pk Area (A-s): 0.095  
Concentration (ug/L ): 21.1

Mean Conc (ug/L ): 20.8 SD: 0.39 RSD(%): 1.87

Recovery is 110.6%

TI ID: M029LCS/AQ/F=4 Seq. No.: 00024 A/S Pos.: 9 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 1 Time: 17:08  
Peak Area (A-s): 0.126 Peak Height (A): 0.228  
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.195  
Blank Corrected Pk Area (A-s): 0.122  
Concentration (ug/L ): 27.6

uL dispensed: 10 from 0, 5 from 36, 20 from 9  
Replicate 2 (Peak Stored) Time: 17:11  
Peak Area (A-s): 0.126 Peak Height (A): 0.236  
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.199  
Blank Corrected Pk Area (A-s): 0.123  
Concentration (ug/L ): 27.7

Mean Conc (ug/L ): 27.6  $\times 110/111 \times 100 = 99.9\%$  SD: 0.08 RSD(%): 0.29

TI ID: M029LCS/AQ/F=4 Seq. No.: 00025 A/S Pos.: 9 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 9  
Replicate 1 Time: 17:13  
Peak Area (A-s): 0.199 Peak Height (A): 0.351  
Background Pk Area (A-s): 0.179 Background Pk Height (A): 0.333  
Blank Corrected Pk Area (A-s): 0.195  
Concentration (ug/L ): 44.5

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uL dispensed: 5 from 36, 10 from 35, 20 from 9  
Replicate 2 (Peak Stored) Time: 17:16  
Peak Area (A-s): 0.203 Peak Height (A): 0.368  
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.341  
Blank Corrected Pk Area (A-s): 0.199  
Concentration (ug/L ): 45.5

Conc (ug/L ): 45.0 SD: 0.65 RSD(%): 1.45

Recovery is 87.0%

TI ID: A1218/AQ Seq. No.: 00026 A/S Pos.: 10 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 1 Time: 17:19  
Peak Area (A-s): 0.002 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.3

uL dispensed: 10 from 0, 5 from 36, 20 from 10  
Replicate 2 (Peak Stored) Time: 17:22  
Peak Area (A-s): -0.000 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.8

Mean Conc (ug/L ): -1.6 SD: 0.35 RSD(%): 22.62

TI ID: A1218/AQ Seq. No.: 00027 A/S Pos.: 10 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 10  
Replicate 1 Time: 17:25  
Peak Area (A-s): 0.089 Peak Height (A): 0.158  
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.131  
Blank Corrected Pk Area (A-s): 0.086  
Concentration (ug/L ): 19.0

uL dispensed: 5 from 36, 10 from 35, 20 from 10  
Replicate 2 (Peak Stored) Time: 17:27  
Peak Area (A-s): 0.085 Peak Height (A): 0.146  
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.127  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 18.0

Mean Conc (ug/L ): 18.5 SD: 0.68 RSD(%): 3.66

Recovery is 100.4%

TI ID: AS Position 39 Seq. No.: 00028 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 1 Time: 17:30  
Peak Area (A-s): 0.104 Peak Height (A): 0.195

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Blank Corrected Pk Area (A-s): 0.100  
Concentration (ug/L ): 22.4

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 (Peak Stored) Time: 17:33  
Peak Area (A-s): 0.103 Peak Height (A): 0.195  
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.164  
Blank Corrected Pk Area (A-s): 0.099  
Concentration (ug/L ): 22.1

Mean Conc (ug/L ): 22.2 SD: 0.17 RSD(%): 0.76

Check sample is within range 17.0 - 23.0

TI ID: AS Position 40 Seq. No.: 00029 A/S Pos.: 40 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1 Time: 17:36  
Peak Area (A-s): -0.000 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.8

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 (Peak Stored) Time: 17:38  
Peak Area (A-s): -0.003 Peak Height (A): 0.007  
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.007  
Concentration (ug/L ): -2.6

Mean Conc (ug/L ): -2.2 SD: 0.55 RSD(%): 25.33

Check sample is within range -5.0 - 5.0

TI ID: A1218S/AQ Seq. No.: 00030 A/S Pos.: 11 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 1 Time: 17:41  
Peak Area (A-s): 0.191 Peak Height (A): 0.300  
Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.283  
Blank Corrected Pk Area (A-s): 0.188  
Concentration (ug/L ): 42.7

uL dispensed: 10 from 0, 5 from 36, 20 from 11  
Replicate 2 (Peak Stored) Time: 17:44  
Peak Area (A-s): 0.207 Peak Height (A): 0.308  
Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.289  
Blank Corrected Pk Area (A-s): 0.203  
Concentration (ug/L ): 46.3

Mean Conc (ug/L ):  $44.5 / 2 = 22.25$  SD: 2.55 RSD(%): 5.74

TI ID: A1218SD/AQ Seq. No.: 00031 A/S Pos.: 12 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 11

AR100450

Peak Area (A-s): 0.194  
Background Pk Area (A-s): 0.177  
Blank Corrected Pk Area (A-s): 0.191  
Concentration (ug/L ): 43.4

Time: 17:57  
Peak Height (A): 0.302  
Background Pk Height (A): 0.283

uL dispensed: 10 from 0, 5 from 36, 20 from 12  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.201  
Background Pk Area (A-s): 0.182  
Blank Corrected Pk Area (A-s): 0.198  
Concentration (ug/L ): 45.1

Time: 17:50  
Peak Height (A): 0.304  
Background Pk Height (A): 0.277

Mean Conc (ug/L ): 44.2 / 90 = 88.7% SD: 1.20 RSD(%): 2.71

TI ID: A1219/AQ Seq. No.: 00032 A/S Pos.: 13 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 1  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.006  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.3

Time: 17:52  
Peak Height (A): 0.011  
Background Pk Height (A): 0.011

uL dispensed: 10 from 0, 5 from 36, 20 from 13  
Replicate 2 (Peak Stored)  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.008  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -1.9

Time: 17:55  
Peak Height (A): 0.009  
Background Pk Height (A): 0.010

Mean Conc (ug/L ): -1.6 SD: 0.43 RSD(%): 26.85

TI ID: A1219/AQ Seq. No.: 00033 A/S Pos.: 13 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 13  
Replicate 1  
Peak Area (A-s): 0.063  
Background Pk Area (A-s): 0.071  
Blank Corrected Pk Area (A-s): 0.059  
Concentration (ug/L ): 12.8

Time: 17:58  
Peak Height (A): 0.103  
Background Pk Height (A): 0.091

uL dispensed: 5 from 36, 10 from 35, 20 from 13  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.077  
Background Pk Area (A-s): 0.095  
Blank Corrected Pk Area (A-s): 0.073  
Concentration (ug/L ): 16.1

Time: 18:01  
Peak Height (A): 0.131  
Background Pk Height (A): 0.127

Mean Conc (ug/L ): 14.4 SD: 2.34 RSD(%): 16.18

Recovery is 80.1%

AR100451

TI ID: A1277/AQ Seq. No.: 00034 A/S Pos.: 14 Date: 03/23/93

Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.005  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.5

Peak Height (A): 0.009  
Background Pk Height (A): 0.008

uL dispensed: 10 from 0, 5 from 36, 20 from 14  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.003  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.6

Time: 18:06  
Peak Height (A): 0.013  
Background Pk Height (A): 0.008

Mean Conc (ug/L ): -1.0 SD: 0.64 RSD(%): 60.78

TI ID: A1277/AQ Seq. No.: 00035 A/S Pos.: 14 Date: 03/23/93

uL dispensed: 5 from 36, 10 from 35, 20 from 14  
Replicate 1  
Peak Area (A-s): 0.086  
Background Pk Area (A-s): 0.076  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 18.3

Time: 18:09  
Peak Height (A): 0.134  
Background Pk Height (A): 0.108

uL dispensed: 5 from 36, 10 from 35, 20 from 14  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.083  
Background Pk Area (A-s): 0.076  
Blank Corrected Pk Area (A-s): 0.080  
Concentration (ug/L ): 17.7

Time: 18:12  
Peak Height (A): 0.127  
Background Pk Height (A): 0.106

Mean Conc (ug/L ): 18.0 SD: 0.42 RSD(%): 2.35

Recovery is 95.1%

TI ID: A1277S/AQ Seq. No.: 00036 A/S Pos.: 15 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 15  
Replicate 1  
Peak Area (A-s): 0.195  
Background Pk Area (A-s): 0.175  
Blank Corrected Pk Area (A-s): 0.191  
Concentration (ug/L ): 43.5

Time: 18:14  
Peak Height (A): 0.268  
Background Pk Height (A): 0.231

uL dispensed: 10 from 0, 5 from 36, 20 from 15  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.179  
Background Pk Area (A-s): 0.156  
Blank Corrected Pk Area (A-s): 0.175  
Concentration (ug/L ): 39.8

Time: 18:17  
Peak Height (A): 0.253  
Background Pk Height (A): 0.219

Mean Conc (ug/L ): 41.7 / 10 SD: 2.64 RSD(%): 6.33

TI ID: AS Position 39 Seq. No.: 00037 A/S Pos.: 39 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 39

AR100452

Replicate  
Peak Area (A-s): 0.097  
Background Pk Area (A-s): 0.080  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 20.9

Time: 18:20  
Peak Height (A): 0.184  
Background Pk Height (A): 0.151

uL dispensed: 10 from 0, 5 from 36, 20 from 39  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.098  
Background Pk Area (A-s): 0.081  
Blank Corrected Pk Area (A-s): 0.094  
Concentration (ug/L ): 21.0

Time: 18:23  
Peak Height (A): 0.175  
Background Pk Height (A): 0.146

Mean Conc (ug/L ): 21.0 SD: 0.05 RSD(%): 0.26

Check sample is within range 17.0 - 23.0

TI ID: AS Position 40 Seq. No.: 00038 A/S Pos.: 40 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 1  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.001  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -1.1

Time: 18:26  
Peak Height (A): 0.008  
Background Pk Height (A): 0.011

uL dispensed: 10 from 0, 5 from 36, 20 from 40  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.002  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.5

Time: 18:28  
Peak Height (A): 0.010  
Background Pk Height (A): 0.006

Mean Conc (ug/L ): -1.3 SD: 0.25 RSD(%): 19.19

Check sample is within range -5.0 - 5.0

TI ID: A1277SD/AQ Seq. No.: 00039 A/S Pos.: 16 Date: 03/23/93

uL dispensed: 10 from 0, 5 from 36, 20 from 16  
Replicate 1  
Peak Area (A-s): 0.200  
Background Pk Area (A-s): 0.177  
Blank Corrected Pk Area (A-s): 0.196  
Concentration (ug/L ): 44.7

Time: 18:31  
Peak Height (A): 0.245  
Background Pk Height (A): 0.219

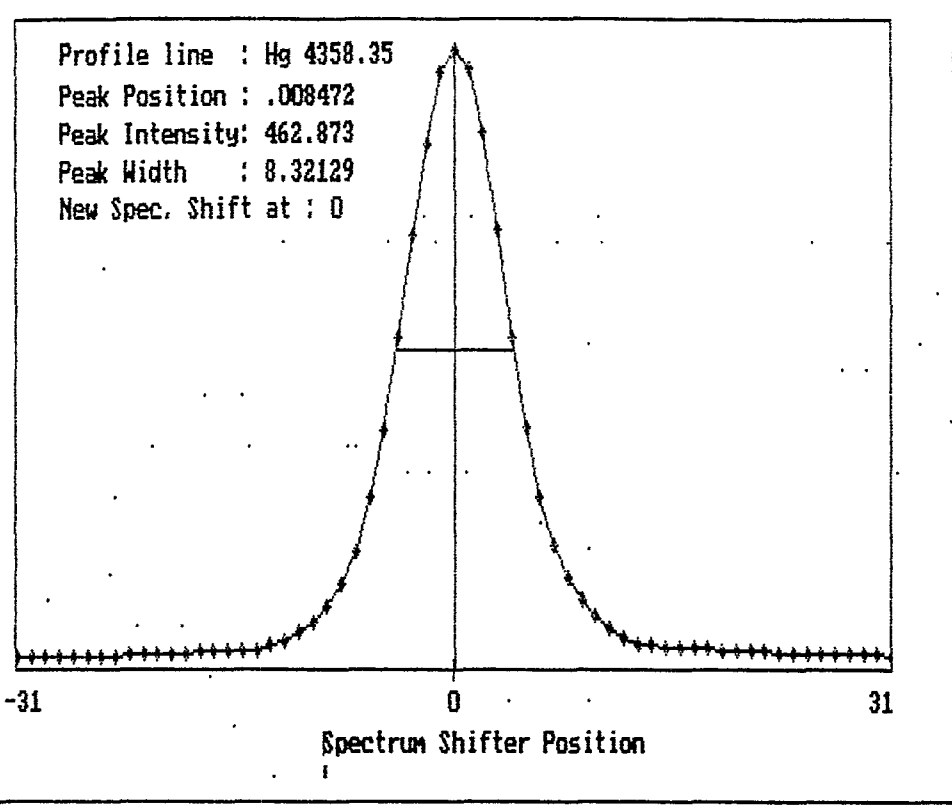
uL dispensed: 10 from 0, 5 from 36, 20 from 16  
Replicate 2 (Peak Stored)  
Peak Area (A-s): 0.186  
Background Pk Area (A-s): 0.160  
Blank Corrected Pk Area (A-s): 0.183  
Concentration (ug/L ): 41.6

Time: 18:34  
Peak Height (A): 0.249  
Background Pk Height (A): 0.225

Mean Conc (ug/L ): 43.1/40 SD: 2.17 RSD(%): 5.04

ARI00453

93



*Handwritten text:*  
 SUP-6000  
 M5700  
 2/24/83



Method: HSL Standard: S

em	AL	SB	AS	BA	BE	CD	CA
Avge	.0047	.0002	.0047	.0008	.0004	.0000	.0291
SDev	.0006	.0040	.0008	.0002	.0000	.0002	.0008
SD	12.28	1608.	17.31	20.41	.0000	383.0	2.941

#1	.0054	.0050	.0041	.0010	.0004	.0000	.0280
	.0046	-.0046	.0040	.0008	.0004	.0002	.0294
	.0040	-.0008	.0057	.0008	.0004	.0002	.0300
#4	.0048	.0014	.0051	.0006	.0004	-.0002	.0288

em	CR	CO	CU	FE	PB	MG	MN
Avge	.0002	.0001	.0005	.0008	.0009	.0011	.0000
SDev	.0003	.0005	.0001	.0003	.0061	.0013	.0002
SD	200.0	1052.	18.18	35.36	675.4	113.5	383.0

#1	.0000	-.0004	.0006	.0012	-.0050	.0026	.0002
	.0000	.0004	.0004	.0006	.0090	-.0004	-.0002
	.0006	.0006	.0006	.0008	-.0022	.0014	.0002
#4	.0000	-.0004	.0006	.0006	.0018	.0008	.0000

em	MO	NI	AG	NA	V	ZN	SE
Avge	.0232	-.0001	.0008	.0256	.0500	.0002	.0001
SDev	.0003	.0007	.0002	.0010	.0004	.0002	.0017
SD	1.087	683.1	20.41	3.984	.8000	76.59	2490.

#1	.0232	.0006	.0008	.0242	.0502	.0002	.0015
	.0228	.0002	.0006	.0266	.0494	.0004	.0002
	.0232	-.0002	.0010	.0256	.0502	.0004	-.0024
#4	.0234	-.0010	.0008	.0260	.0502	.0000	.0010

AR100455

Method: HSL Standard: S10

em	AL	SB	AS	BA	BE	CD	CA
Average	.5676	1.608	.3758	4.139	1.095	1.133	2.035
SDDev	.0058	.014	.0050	.029	.005	.006	.006
SD	1.015	.8922	1.320	.6952	.4866	.5313	.2734
#1	.5616	1.593	.3724	4.102	1.090	1.126	2.036
	.5642	1.605	.3726	4.130	1.097	1.132	2.041
	.5744	1.606	.3754	4.162	1.101	1.133	2.034
#4	.5700	1.627	.3830	4.162	1.091	1.141	2.027
em	CR	CO	CJ	FE	PB	MG	MN
Average	1.187	1.095	2.114	1.366	1.723	.4811	2.028
SDDev	.003	.005	.023	.006	.010	.0060	.011
SD	.2768	.4401	1.083	.4371	.5597	1.255	.5663
#1	1.184	1.090	2.086	1.358	1.711	.4726	2.021
	1.192	1.101	2.105	1.367	1.720	.4808	2.042
	1.186	1.092	2.134	1.367	1.726	.4854	2.016
#4	1.187	1.097	2.132	1.373	1.734	.4854	2.031
em	MO	NI	AG	NA	V	ZN	SE
Average	.9411	.7990	.1440	3.378	2.574	1.263	.2216
SDDev	.0046	.0055	.0007	.186	.007	.004	.0010
SD	.4841	.6873	.4591	5.499	.2898	.3432	.4664
#1	.9350	.7940	.1432	3.206	2.564	1.257	.2218
	.9428	.7982	.1448	3.244	2.579	1.264	.2201
	.9408	.7970	.1438	3.461	2.580	1.263	.2225
#4	.9458	.8068	.1440	3.600	2.573	1.267	.2220

AR100456

Method: HSL

Slope = Conc(SIR)/IR

Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
308.215	S10	S	17.6242	-.082834	03/25/93 02:19:57
206.838	S10	S	6.29064	-.001573	03/25/93 02:19:57
193.696	S10	S	26.9518	-.127347	03/25/93 02:19:57
493.409	S10	S	2.41658	-.001933	03/25/93 02:19:57
313.041	S10	S	9.18652	-.003675	03/25/93 02:19:57
228.802	S10	S	8.98720	-.000449	03/25/93 02:19:57
317.933	S10	S	5.01447	-.145670	03/25/93 02:19:57
267.716	S10	S	8.43050	-.001265	03/25/93 02:19:57
228.616	S10	S	9.15610	-.000458	03/25/93 02:19:57
324.758	S10	S	4.73039	-.002602	03/25/93 02:19:57
259.940	S10	S	7.32576	-.005861	03/25/93 02:19:57
220.353	S10	S	5.59117	-.005032	03/25/93 02:19:57
279.079	S10	S	20.4656	-.022512	03/25/93 02:19:57
257.610	S10	S	4.92866	-.000246	03/25/93 02:19:57
202.030	S10	S	10.9404	-.253269	03/25/93 02:19:57
231.604	S10	S	12.5064	.001251	03/25/93 02:19:57
328.068	S10	S	6.71387	-.005371	03/25/93 02:19:57
588.789	S10	S	2.98320	-.076370	03/25/93 02:19:57
292.402	S10	S	3.96822	-.198411	03/25/93 02:19:57
213.856	S10	S	7.93995	-.001985	03/25/93 02:19:57
196.026	S10	S	45.2239	-.003152	03/25/93 02:19:57

AR100457

Method: HSL Sample Name: ICV

Operator: JCM

Run Time: 03/25/93 02:26:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.012	1.039	1.027	1.031	1.008	1.017	.9224
Dev	.016	.027	.094	.008	.009	.007	.0064
%RSD	1.564	2.554	9.110	.8036	.8740	.6542	.6915
#1	1.032	1.066	1.010	1.028	.9957	1.008	.9289
#2	1.011	1.056	1.153	1.028	1.012	1.018	.9182
#3	1.011	1.015	1.021	1.042	1.016	1.024	.9157
#4	.9935	1.017	.9262	1.023	1.007	1.018	.9266

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017	1.033	1.032	1.036	1.043	1.027	1.022
Dev	.007	.001	.013	.006	.045	.012	.009
%RSD	.6416	.1438	1.258	.6002	4.343	1.167	.8734
#1	1.011	1.032	1.043	1.027	1.095	1.039	1.012
#2	1.016	1.035	1.023	1.037	1.001	1.031	1.018
#3	1.015	1.033	1.043	1.041	1.068	1.027	1.025
#4	1.026	1.033	1.018	1.037	1.010	1.011	1.032

Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.044	1.036	1.019	1.198	1.028	1.035	1.007
SDev	.013	.011	.003	.082	.006	.003	.108
%RSD	1.269	1.089	.3392	6.846	.5825	.3127	10.72
#1	1.035	1.020	1.018	1.306	1.024	1.032	.8923
#2	1.040	1.037	1.021	1.144	1.033	1.032	1.143
#3	1.064	1.045	1.023	1.217	1.022	1.039	.9569
#4	1.038	1.042	1.015	1.126	1.033	1.037	1.034

Method: HSL Sample Name: ICB

Operator: JCM

Time: 03/25/93 02:30:15

Element:

Unit: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	-.0026	.0125	.0040	-.0016	-.0000	-.0014	.0111
Stdev	.0078	.0328	.0473	.0005	.0000	.0027	.0059
RSD	298.4	262.1	1176.	29.45	54.89	193.2	53.17
1	-.0123	.0588	.0290	-.0015	-.0000	-.0009	.0175
	-.0053	-.0167	-.0492	-.0019	-.0000	-.0032	.0055
3	.0018	-.0029	-.0196	-.0019	-.0000	-.0037	.0067
4	.0053	.0109	.0559	-.0010	-.0000	.0022	.0145
Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0029	.0037	.0019	-.0011	.0004	-.0102	-.0000
Stdev	.0010	.0041	.0012	.0022	.0180	.0198	.0005
RSD	32.96	110.9	62.98	200.1	4149.	194.0	99270.
	.0021	.0050	.0021	.0015	.0154	-.0061	-.0002
	.0038	.0069	.0021	-.0000	.0164	-.0020	-.0002
3	.0021	-.0023	.0002	-.0029	-.0129	-.0389	.0007
	.0038	.0050	.0031	-.0029	-.0171	.0062	-.0002
Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0060	.0044	-.0013	.0000	.0030	.0008	.0979
Stdev	.0022	.0043	.0019	.0061	.0016	.0015	.0277
RSD	36.26	97.50	142.9	1234e6	54.89	195.9	28.29
	.0049	-.0012	-.0027	.0060	.0032	.0012	.1229
2	.0049	.0038	-.0013	-.0018	.0032	-.0004	.1139
	.0049	.0088	-.0027	-.0078	.0008	-.0004	.0604
	.0093	.0063	.0014	.0036	.0048	.0028	.0942

AR100459

Method: HSL Sample Name: CRII

Operator: JCM

Time: 03/25/93 02:33:39

Unit:

Mode: CONC Corr. Factor: 1

Item	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0927	.1149	.0883	.0091	.0095	.0116	.3889
St Dev	.0116	.0144	.0764	.0002	.0009	.0046	.0129
RSD	12.56	12.57	86.52	2.669	9.593	39.85	3.322
Item	.0865	.1126	.1692	.0087	.0091	.0076	.4008
Units	.1042	.1164	.0128	.0092	.0109	.0173	.3907
Avg	.0795	.1328	.1367	.0092	.0091	.0081	.3934
St Dev	.1006	.0976	.0344	.0092	.0091	.0134	.3706
Item	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232	.0210	.0166	.0297	.1230	.1580	.0131
St Dev	.0040	.0082	.0012	.0018	.0202	.0174	.0006
RSD	17.32	39.25	7.216	6.218	16.45	11.01	4.352
Item	.0257	.0325	.0182	.0278	.1527	.1539	.0136
Units	.0257	.0215	.0163	.0293	.1165	.1825	.0126
Avg	.0240	.0141	.0163	.0322	.1152	.1538	.0136
St Dev	.0173	.0160	.0154	.0293	.1074	.1415	.0126
Item	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0588	.0128	.8343	.0223	.0153	.0185
St Dev	.0057	.0106	.0017	.1191	.0019	.0023	.0859
RSD	659.0	18.04	13.52	14.27	8.388	14.74	465.0
Item	-.0019	.0438	.0149	.7392	.0237	.0170	L-.0769
Units	.0091	.0663	.0135	.8007	.0237	.0153	L-.0046
Avg	-.0040	.0588	.0108	.7888	.0221	.0121	.1302
St Dev	.0003	.0663	.0122	1.008	.0197	.0169	.0252

AR100460

Method: HSL Sample Name: ICSAI

Operator: JCM

Run Time: 03/25/93 02:38:08

Element:

Unit: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	510.6	.0307	L-.2811	.0030	.0002	.0014	465.1
Dev	4.0	.1300	.1743	.0005	.0000	.0059	10.8
SD	.7852	423.3	61.98	15.32	4.287	411.3	2.325

#1	505.9	.2240	L-.0249	.0024	.0002	L-.0072	450.3
	513.1	L-.0132	L-.3521	.0034	.0002	.0053	464.3
	508.7	L-.0552	L-.3334	.0034	.0002	.0050	471.2
#4	514.7	L-.0327	L-.4141	.0029	.0002	.0027	474.7

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.0042	L-.0031	164.2	.0546	465.8	.0079
Dev	.0032	.0026	.0018	2.5	.0339	4.5	.0014
RSD	50.95	61.65	58.92	1.493	62.09	.9688	17.29

	.0089	.0073	L-.0017	160.7	.0058	459.4	.0096
	.0055	.0051	L-.0017	164.4	.0710	469.5	.0063
#3	.0089	.0013	L-.0035	165.7	.0826	468.2	.0079
	.0021	.0031	L-.0054	166.0	.0590	466.3	.0079

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0297	L-.0019	L-.0109	.4557	L-.0310	.0052	1.118
Dev	.0126	.0097	.0040	.0278	.0013	.0032	.197
RSD	42.58	515.7	36.36	6.099	4.287	62.47	17.66

	.0214	.0113	L-.0165	.4904	L-.0324	.0081	.8955
#2	.0196	L-.0063	L-.0102	.4558	L-.0317	.0075	1.008
	.0305	L-.0012	L-.0099	.4224	L-.0307	.0038	1.291
	.0472	L-.0113	L-.0071	.4540	L-.0293	.0012	1.278

AR100461

Method: HSL Sample Name: ICSABI

Operator: JCM

Time: 03/25/93 02:42:39

Comment:

Code: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	524.9	.0419	L-.3436	.4322	.4218	.9703	473.3
Dev	8.6	.1140	.1590	.0025	.0082	.0149	12.4
RSD	1.632	272.4	46.29	.5729	1.950	1.539	2.613

#1	529.8	.1654	L-.2637	.4297	.4112	.9560	457.6
#2	513.0	L-.0597	L-.2557	.4311	.4222	.9594	475.7
#3	532.3	L-.0504	L-.5819	.4355	.4222	.9791	472.4
#4	524.4	.1122	L-.2731	.4326	.4314	.9867	487.6

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4296	.4157	.4993	166.9	.9655	469.8	.4365
Dev	.0111	.0110	.0098	3.1	.0636	5.1	.0083
RSD	2.589	2.649	1.972	1.863	6.588	1.086	1.895

#1	.4165	.4029	.5082	162.5	.9351	465.9	.4263
#2	.4351	.4170	.4903	167.4	1.002	466.2	.4359
#3	.4249	.4133	.5073	167.7	.8922	476.9	.4374
#4	.4418	.4296	.4912	169.9	1.032	470.1	.4465

Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186	.8526	.9736	.5946	.4034	.9479	.8377
Dev	.0213	.0205	.0112	.0580	.0084	.0118	.2222
RSD	114.6	2.401	1.151	9.751	2.080	1.242	26.52

#1	-.0040	.8269	.9577	.6653	.3931	.9324	1.066
#2	.0339	.8469	.9737	.5477	.4086	.9480	.9011
#3	.0051	.8619	.9818	.6187	.4004	.9503	.5348
#4	.0396	.8745	.9811	.5465	.4117	.9609	.8487

AR100462



Method: HSL Sample Name: A1216

Operator: JCM

Run Time: 03/25/93 02:47:01

Element:

Mode: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.47	L-.0276	.0230	196.5	.0025	.2171	4.358
Dev	.25	.0459	.0224	1.9	.0009	.0034	.094
SD	.5857	166.4	97.17	.9685	37.33	1.548	2.157

#1	43.81	.0140	.0369	194.5	.0030	.2129	4.221
#2	43.45	L-.0524	.0395	195.3	.0029	.2164	4.376
#3	43.40	.0079	L-.0091	197.4	.0029	.2208	4.420
#4	43.20	L-.0797	.0248	198.7	.0011	.2185	4.417

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1087	L-.0002	.5239	337.1	1.975	4.339	2.194
Dev	.0029	.0060	.0071	6.0	.046	.029	.047
RSD	2.651	3249.	1.363	1.775	2.324	.6785	2.127

#1	.1082	.0004	.5339	329.1	1.926	4.381	2.130
#2	.1099	L-.0027	.5187	336.2	2.024	4.320	2.189
#3	.1116	.0079	.5187	340.4	1.947	4.339	2.220
#4	.1049	L-.0063	.5244	342.7	2.002	4.316	2.236

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1602	.0594	L-.0149	6.375	.1347	15.68	1.786
Dev	.0040	.0066	.0047	.405	.0029	.22	.093
RSD	2.522	11.08	31.68	6.357	2.180	1.421	5.204

#1	.1602	.0688	L-.0199	6.967	.1305	15.40	1.691
#2	.1658	.0563	L-.0114	6.209	.1347	15.60	1.773
#3	.1582	.0588	L-.0104	6.274	.1370	15.82	1.766
#4	.1566	.0538	L-.0179	6.052	.1365	15.89	1.913

AR100463

Method: HSL Sample Name: A1216L

Operator: JCM

Time: 03/25/93 02:51:31

Comment:

Code: CONC Corr. Factor: 1

Item	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	9.453	L-.0294	L-.0128	40.15	L-.0001	.0456	.9565
Dev	.038	.0472	.0417	.16	.0000	.0028	.0239
SD	.3985	160.3	326.5	.4073	10.46	6.056	2.502

1	9.487	.0265	L-.0643	40.32	L-.0001	.0438	.9303
2	9.399	L-.0888	L-.0279	40.22	L-.0001	.0450	.9422
3	9.463	L-.0318	.0280	40.14	L-.0002	.0440	.9786
4	9.463	L-.0238	.0132	39.94	L-.0002	.0497	.9749

Item	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0253	.0025	.1145	75.44	.4681	.9600	.4722
Dev	.0016	.0044	.0031	.90	.0522	.0234	.0069
RSD	6.383	171.3	2.730	1.193	11.15	2.434	1.455

1	.0240	.0021	.1185	74.19	.4482	.9253	.4622
2	.0257	L-.0035	.1109	75.39	.4042	.9712	.4734
3	.0274	.0057	.1147	76.20	.5196	.9758	.4776
4	.0240	.0059	.1138	75.98	.5006	.9675	.4756

Item	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0330	.0213	L-.0040	1.968	.0273	3.331	.2487
Dev	.0063	.0054	.0026	.106	.0029	.033	.0942
RSD	19.07	25.42	64.66	5.411	10.46	.9820	37.87

1	.0323	.0288	L-.0070	2.125	.0236	3.286	.2237
2	.0271	.0163	L-.0027	1.887	.0265	3.326	.1339
3	.0307	.0188	L-.0051	1.938	.0295	3.355	.3576
4	.0418	.0213	L-.0012	1.922	.0296	3.356	.2797

AR100464

Method: HSL Sample Name: PBS

Operator: JCM

Run Time: 03/25/93 02:56:02

Comment:

Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458	L-.0269	L-.0031	.0544	.0000	L-.0008	.0144
Stdev	.0109	.0104	.0421	.0067	.0000	.0040	.0075
%SD	23.91	38.43	1359.	12.24	75.10	476.3	51.91
#1	.0476	L-.0153	.0563	.0623	.0000	L-.0031	.0240
#2	.0511	L-.0216	L-.0408	.0561	.0000	L-.0016	.0169
#3	.0300	L-.0380	L-.0220	.0527	.0000	L-.0037	.0079
#4	.0546	L-.0329	L-.0058	.0464	.0000	.0050	.0091
Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0013	.0021	.0374	.0175	L-.0174	.0005
Stdev	.0024	.0045	.0008	.0125	.0289	.0122	.0009
%RSD	113.1	338.6	36.30	33.36	164.7	70.54	184.1
#1	.0055	.0068	.0031	.0557	.0387	L-.0061	L-.0002
#2	.0004	.0032	.0021	.0337	.0419	L-.0348	L-.0002
#3	.0021	L-.0023	.0021	.0322	.0093	L-.0143	.0008
#4	.0004	L-.0023	.0012	.0278	L-.0198	L-.0143	.0017
Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0038	L-.0027	.2904	L-.0010	.0020	L-.0639
Stdev	.0018	.0140	.0019	.0159	.0008	.0016	.0485
%RSD	385.2	373.1	71.03	5.460	75.10	81.70	75.95
#1	.0026	.0213	.0000	.2941	L-.0000	.0011	L-.0778
#2	.0005	L-.0063	L-.0040	.3031	L-.0016	.0044	L-.0196
#3	.0005	L-.0088	L-.0040	.2673	L-.0008	.0012	L-.0319
#4	-.0017	.0088	L-.0027	.2971	L-.0016	.0012	L-.1262

AR100465

Method: HSL Sample Name: LCSS

Operator: JCM

Run Time: 03/25/93 03:00:22

Element:

Mode: CONC Corr. Factor: 212.766

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H5058.	34.88	20.17	118.6	59.62	78.41	H2606.
Dev	106.	6.44	9.09	.5	.55	1.81	45.
RSD	2.087	18.46	45.06	.4386	.9215	2.306	1.743

	H5145.	29.78	15.61	119.2	58.85	76.48	H2540.
	H5007.	32.77	33.23	118.5	60.01	77.34	H2611.
	H5145.	44.31	19.08	118.8	59.62	79.48	H2629.
	H4933.	32.65	12.75	117.9	60.01	80.35	H2642.

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	162.4	127.0	99.50	H6792.	50.99	H1641.	140.3
Dev	1.8	1.3	1.40	61.	10.33	19.	1.1
RSD	1.119	1.006	1.412	.8970	20.25	1.167	.7832

	159.7	125.6	101.3	H6705.	46.39	H1657.	138.8
	163.6	126.7	98.49	H6804.	42.38	H1621.	140.4
	162.9	127.1	99.90	H6812.	49.31	H1658.	141.1
	163.3	128.7	98.29	H6846.	65.88	H1629.	141.1

Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.38	146.2	77.01	H1766.	34.30	93.08	69.01
Dev	.25	5.1	1.30	160.	.69	.74	21.26
RSD	.4295	3.480	1.692	9.072	2.017	.7932	30.81

	57.11	142.4	75.20	H1936.	33.35	91.99	53.77
	57.66	145.1	76.94	H1615.	34.34	93.34	53.98
	57.49	143.5	77.80	H1869.	34.50	93.34	98.97
	57.25	153.6	78.10	H1644.	35.00	93.64	69.33

Method: HSL Sample Name: A1217

Operator: JCM

Run Time: 03/25/93 03:04:43

Comment:

Mode: CONC Corr. Factor: 1

	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.44	.0612	.0713	153.2	.0015	.7048	4.870
Dev	.69	.0603	.0628	1.7	.0009	.0116	.075
%RSD	1.393	98.60	88.07	1.113	61.38	1.640	1.536
#1	48.77	.1461	.0870	150.8	.0029	.6902	4.780
#2	49.07	.0621	L-.0167	153.5	.0011	.7099	4.852
#3	49.57	.0140	.1322	153.9	.0010	.7021	4.960
#4	50.34	.0226	.0828	154.7	.0011	.7172	4.888

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1301	.0224	.8241	265.7	2.987	6.386	1.222
Dev	.0031	.0061	.0109	2.7	.025	.082	.014
%RSD	2.365	27.05	1.320	1.015	.8326	1.278	1.163
#1	.1284	.0290	.8139	262.4	2.991	6.311	1.203
#2	.1318	.0153	.8224	265.0	2.951	6.362	1.220
#3	.1335	.0256	.8205	268.8	2.999	6.369	1.237
#4	.1267	.0197	.8394	266.6	3.007	6.502	1.228

Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1568	.1007	.0142	6.348	.1432	27.06	1.140
Dev	.0102	.0085	.0022	.364	.0027	.31	.109
%RSD	6.514	8.454	15.85	5.735	1.918	1.129	9.567
#1	.1417	.1013	.0174	6.283	.1404	26.64	1.038
#2	.1611	.1088	.0140	6.207	.1430	27.05	1.053
#3	.1640	.1038	.0123	6.031	.1470	27.30	1.237
#4	.1604	.0888	.0130	6.871	.1426	27.27	1.231

AR100467

Method: HSL Sample Name: A1217L

Operator: JCM

Time: 03/25/93 03:09:10

Element:

Code: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	10.70	L-.0021	.0204	32.59	.0003	.1489	1.099
Dev	.20	.0272	.0569	.15	.0009	.0037	.019
SD	1.909	1279.	279.1	.4515	305.9	2.479	1.718

1	10.49	.0130	.1034	32.43	L-.0001	.1471	1.075
2	10.73	L-.0221	L-.0245	32.68	.0017	.1456	1.094
3	10.60	.0284	.0076	32.50	L-.0002	.1540	1.114
4	10.96	L-.0278	L-.0049	32.74	L-.0002	.1488	1.114

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0295	.0085	.1788	60.26	.6702	1.400	.2680
Dev	.0046	.0029	.0009	.57	.0322	.022	.0033
RSD	15.75	33.53	.5060	.9479	4.809	1.582	1.235

1	.0341	.0101	.1781	59.49	.6500	1.398	.2638
2	.0240	.0062	.1791	60.19	.7052	1.423	.2670
3	.0324	.0118	.1781	60.64	.6889	1.370	.2701
4	.0274	.0061	.1800	60.74	.6366	1.407	.2711

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0343	.0288	.0006	2.083	.0289	5.858	.2544
Dev	.0016	.0054	.0012	.147	.0017	.076	.1056
RSD	4.761	18.78	183.1	7.071	5.756	1.303	41.52

1	.0319	.0213	.0015	1.924	.0273	5.751	.4018
2	.0354	.0288	.0016	2.141	.0279	5.856	.2063
3	.0352	.0338	L-.0009	2.008	.0310	5.904	.2522
4	.0347	.0313	.0004	2.258	.0294	5.921	.1573

AR100468

Method: HSL Sample Name: A1217S

Operator: JCM

Run Time: 03/25/93 03:13:31

Comment:

Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.60	1.018	3.923	152.1	.0969	.7918	4.549
Stdev	.60	.049	.073	1.6	.0001	.0164	.091
SD	1.158	4.834	1.871	1.071	.1070	2.069	1.997
#1	51.70	1.002	3.874	150.2	.0970	.7836	4.419
#2	50.74	1.025	3.971	151.3	.0969	.7839	4.573
#3	52.10	1.082	4.000	153.2	.0968	.7834	4.575
#4	51.87	.9640	3.848	153.6	.0968	.8164	4.630
Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4887	.9641	1.297	254.3	3.796	6.033	2.092
Stdev	.0097	.0097	.013	3.9	.052	.058	.040
%RSD	1.990	1.003	.9831	1.544	1.369	.9664	1.910
#1	.4769	.9511	1.305	248.9	3.812	5.991	2.037
#2	.4904	.9698	1.279	254.3	3.748	5.975	2.094
#3	.4870	.9625	1.308	255.8	3.761	6.086	2.106
#4	.5005	.9729	1.296	258.2	3.862	6.080	2.131
Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.090	1.057	.1051	6.003	1.105	26.77	5.030
Stdev	.044	.022	.0028	.367	.019	.31	.181
%RSD	2.090	2.125	2.670	6.119	1.717	1.163	3.607
#1	2.027	1.035	.1020	6.496	1.079	26.33	4.832
#2	2.102	1.087	.1061	5.801	1.102	26.79	5.015
#3	2.106	1.060	.1039	6.055	1.115	26.90	5.272
#4	2.126	1.047	.1085	5.660	1.122	27.06	5.002

AR100469

Method: HSL Sample Name: CCV

Operator: JCM

Time: 03/25/93 03:17:52

Element:

Mode: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	10.10	9.999	9.850	9.907	9.879	9.786	9.615
Dev	.31	.164	.052	.108	.143	.148	.167
RSD	3.073	1.639	.5237	1.094	1.444	1.509	1.738
1	9.746	9.781	9.782	9.754	9.719	9.592	9.410
2	10.05	10.00	9.857	9.909	9.861	9.749	9.605
3	10.50	10.18	9.852	10.00	9.870	9.904	9.626
4	10.10	10.03	9.908	9.965	10.07	9.899	9.819
Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	9.597	9.750	9.938	9.751	10.00	9.837	9.566
Dev	.153	.121	.240	.090	.18	.215	.113
RSD	1.596	1.243	2.416	.9201	1.843	2.187	1.176
1	9.400	9.602	9.664	9.639	9.814	9.576	9.438
2	9.633	9.739	9.890	9.755	9.895	9.805	9.599
3	9.584	9.762	10.25	9.752	10.22	10.10	9.522
4	9.771	9.898	9.952	9.859	10.09	9.869	9.703
Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	9.856	9.832	.9793	11.00	9.666	9.939	9.865
Dev	.142	.149	.0174	1.32	.136	.129	.332
RSD	1.444	1.514	1.774	12.00	1.408	1.300	3.362
1	9.668	9.642	.9581	10.21	9.483	9.766	9.660
2	9.855	9.875	.9722	10.54	9.675	9.927	9.511
3	9.887	9.812	.9911	12.97	9.694	9.996	10.09
4	10.01	10.000	.9956	10.28	9.812	10.07	10.20

AR100470



Method: HSL Sample Name: CCB

Operator: JCM

Run Time: 03/25/93 03:22:14

Comment:

Mode: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458	.0082	.0015	.0134	.0005	.0022	.0524
S <sub>av</sub>	.0035	.0370	.0453	.0031	.0009	.0017	.0075
%SD	7.712	452.7	3007.	23.05	200.6	74.53	14.35

#1	.0476	.0462	.0022	.0174	.0018	.0013	.0556
#	.0405	.0336	L-.0032	.0140	.0000	.0032	.0520
#3	.0476	L-.0217	.0588	.0121	L-.0000	.0004	.0598
#4	.0476	L-.0254	L-.0518	.0101	.0000	.0040	.0422

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0023	.0069	.0176	L-.0112	L-.0204	.0025
S <sub>av</sub>	.0040	.0093	.0013	.0049	.0464	.0098	.0005
%RSD	94.54	408.6	19.54	28.06	416.1	47.75	20.04

#	.0072	.0087	.0069	.0234	.0444	L-.0266	.0027
#2	.0072	.0068	.0078	.0161	.0097	L-.0143	.0027
#3	.0038	.0050	.0078	.0190	L-.0463	L-.0102	.0027
#	L-.0013	L-.0115	.0050	.0117	L-.0525	L-.0307	.0017

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180	.0069	L-.0044	.6752	.0004	.0138	.0160
S <sub>Dev</sub>	.0093	.0059	.0025	.0528	.0005	.0041	.1085
%RSD	51.54	85.90	58.36	7.821	118.1	29.61	676.9
#1	.0311	L-.0012	L-.0027	.7082	.0008	.0186	.1455
#2	.0158	.0113	L-.0081	.6068	L-.0000	.0154	L-.0367
#	.0158	.0113	L-.0027	.6617	.0008	.0122	.0578
#	.0092	.0062	L-.0040	.7243	L-.0000	.0091	L-.1025

AR100471

Method: HSL Sample Name: A1217SD

Operator: JCM

Run Time: 03/25/93 03:26:43

Element:

Code: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	50.18	1.006	3.926	151.5	.0955	.8039	4.564
Dev	.73	.033	.047	1.1	.0009	.0118	.088
SD	1.461	3.279	1.185	.7065	.9555	1.474	1.920
1	49.47	1.048	3.898	150.6	.0952	.7869	4.448
	49.65	.9685	3.921	150.6	.0950	.8063	4.593
3	50.98	.9969	3.891	152.6	.0969	.8085	4.558
4	50.62	1.012	3.993	152.3	.0950	.8141	4.657
Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.4845	.9590	1.295	254.7	3.793	6.008	2.086
Dev	.0081	.0151	.013	3.0	.027	.066	.027
RSD	1.667	1.573	.9984	1.197	.7044	1.097	1.275
	.4752	.9377	1.297	250.8	3.761	5.939	2.049
2	.4904	.9666	1.283	254.7	3.810	6.028	2.091
3	.4803	.9595	1.312	254.9	3.780	6.090	2.090
	.4921	.9721	1.286	258.2	3.819	5.973	2.112
Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	2.123	1.078	.1086	6.165	1.098	26.87	4.998
Dev	.026	.003	.0005	.251	.014	.29	.156
RSD	1.204	.2922	.4776	4.073	1.262	1.081	3.130
	2.087	1.077	.1079	6.119	1.079	26.49	5.145
2	2.136	1.075	.1089	6.009	1.102	26.81	5.056
	2.124	1.077	.1090	6.533	1.101	27.02	4.778
	2.145	1.082	.1085	5.999	1.111	27.16	5.012

AR100472

Method: HSL Sample Name: PBW  
 Run Time: 03/25/93 03:31:04  
 Element:  
 Due: CONC Corr. Factor: 1

Operator: JCM

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0661	.0124	.0057	.0256	L-.0000	.0013	.0189
Stdev	.0105	.0381	.0166	.0060	.0000	.0025	.0060
%RSD	15.92	307.5	289.5	23.21	98.70	200.9	31.56
#1	.0687	.0439	L-.0164	.0304	.0000	L-.0002	.0129
#2	.0511	.0464	.0077	.0309	L-.0000	.0048	.0167
#3	.0758	L-.0153	.0240	.0217	L-.0000	L-.0008	.0188
#4	.0688	L-.0254	.0077	.0193	L-.0000	.0012	.0270
Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0042	.0032	.0024	.0494	L-.0112	.0042	.0008
Stdev	.0021	.0026	.0009	.0118	.0297	.0191	.0008
%RSD	50.30	81.98	38.37	23.88	266.3	457.5	105.3
#1	.0021	.0032	.0031	.0615	.0006	L-.0143	.0018
#2	.0038	L-.0005	.0012	.0571	.0095	L-.0020	L-.0002
#3	.0038	.0050	.0021	.0425	L-.0553	.0021	.0008
#4	.0072	.0050	.0031	.0366	.0006	.0308	.0008
Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0092	.0075	.0004	.3311	.0014	.0099	L-.0341
Stdev	.0036	.0103	.0013	.0345	.0014	.0016	.0532
%RSD	38.95	137.4	364.7	10.40	98.71	16.01	156.1
#1	.0092	.0063	L-.0013	.3753	L-.0000	.0123	L-.0543
#2	.0092	.0213	.0014	.2912	.0008	.0091	.0189
#3	.0136	L-.0037	.0000	.3276	.0016	.0091	L-.0018
#4	.0048	.0063	.0014	.3305	.0032	.0091	L-.0991

AR100473

Method: HSL Sample Name: LCSW

Operator: JCM

Time: 03/25/93 03:35:25

Unit:

Mode: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.6895	.1192	.1005	.1398	.0437	.1220	9.190
Dev	.0165	.0308	.0096	.0017	.0018	.0040	.195
RSD	2.400	25.84	9.574	1.243	4.008	3.272	2.123
1	.6683	.1587	.1058	.1401	.0414	.1165	8.966
	.6860	.0906	.0870	.1406	.0451	.1258	9.137
3	.6966	.0994	.1005	.1411	.0450	.1238	9.223
4	.7071	.1283	.1088	.1372	.0432	.1219	9.435

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.5205	.6257	.1246	.5834	.1306	2.386	.1429
Dev	.0076	.0125	.0009	.0055	.0233	.009	.0028
RSD	1.460	2.003	.7255	.9476	17.83	.3832	1.986
2	.5112	.6143	.1253	.5772	.1549	2.372	.1392
	.5196	.6234	.1253	.5816	.1461	2.389	.1431
3	.5213	.6216	.1243	.5845	.1114	2.389	.1431
	.5297	.6435	.1234	.5903	.1099	2.393	.1461

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.1494	.1536	.1098	16.67	.1597	.1913	.1742
Dev	.0053	.0097	.0030	.75	.0039	.0029	.0435
RSD	3.568	6.294	2.725	4.513	2.435	1.506	24.96
1	.1429	.1442	.1068	16.57	.1553	.1881	.1603
2	.1472	.1592	.1081	16.80	.1577	.1929	.1195
	.1537	.1467	.1108	17.57	.1616	.1897	.2001
	.1537	.1642	.1135	15.74	.1640	.1945	.2168

AR100474

Method: HSL Sample Name: A1218

Operator: JCM

Run Time: 03/25/93 03:39:56

Comment:

Element: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.8354	L-.0107	L-.0013	.1486	L-.0000	.0018	20.10
Stdev	.0133	.0167	.0353	.0005	.0000	.0038	.07
CRSD	1.597	155.7	2633.	.3252	5.991	209.2	.3335

#1	.8337	.0100	L-.0290	.1484	L-.0000	.0072	20.01
#2	.8266	L-.0277	.0141	.1484	L-.0000	.0011	20.12
#3	.8548	L-.0201	.0412	.1493	L-.0000	.0007	20.11
#4	.8266	L-.0050	L-.0317	.1484	L-.0000	L-.0017	20.16

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0042	.0025	.0106	1.526	.0252	7.455	.1566
Stdev	.0044	.0038	.0013	.002	.0432	.078	.0012
CRSD	105.3	153.0	12.57	.1239	171.6	1.041	.7925

#1	.0105	.0066	.0125	1.525	.0653	7.357	.1563
#2	.0004	L-.0026	.0097	1.527	L-.0155	7.471	.1583
#3	.0038	.0029	.0106	1.528	L-.0087	7.545	.1563
#4	.0021	.0029	.0097	1.524	.0596	7.447	.1553

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0093	.0050	L-.0016	17.87	.0078	.3937	L-.0207
Stdev	.0042	.0125	.0023	.49	.0005	.0038	.0512
CRSD	45.01	249.9	143.0	2.759	5.991	.9615	248.0

#1	.0126	.0188	L-.0023	17.41	.0082	.3908	L-.0225
#2	.0126	.0088	L-.0023	17.67	.0074	.3940	.0324
#3	.0038	L-.0113	L-.0036	18.56	.0074	.3989	L-.0896
#4	.0083	.0038	.0017	17.85	.0082	.3909	L-.0030

Method: HSL Sample Name: A1218S

Operator: JCM

Run Time: 03/25/93 03:44:26

Element:

Unit: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	2.841	.5220	1.955	2.076	.0505	.0696	19.68
Dev	.045	.0146	.023	.013	.0000	.0025	.21
SD	1.571	2.790	1.163	.6329	.0412	3.563	1.061

1	2.790	.5228	1.934	2.065	.0505	.0690	19.38
	2.871	.5016	1.972	2.076	.0505	.0666	19.71
	2.819	.5355	1.978	2.068	.0505	.0701	19.85
4	2.886	.5280	1.937	2.094	.0505	.0725	19.79

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.2004	.5071	.2616	2.482	.5351	7.260	.6445
Dev	.0016	.0048	.0016	.018	.0514	.136	.0054
RSD	.8066	.9554	.6182	.7133	9.597	1.876	.8354

	.2025	.5007	.2595	2.455	.5168	7.196	.6371
	.1991	.5117	.2624	2.489	.4823	7.381	.6489
3	.2008	.5099	.2614	2.489	.6043	7.098	.6440
	.1991	.5062	.2633	2.493	.5370	7.364	.6479

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.5529	.5212	.0478	17.17	.5061	.9029	2.028
Dev	.0062	.0083	.0013	.62	.0038	.0076	.046
RSD	1.123	1.585	2.659	3.589	.7524	.8439	2.280

2	.5448	.5268	.0494	16.75	.5006	.8941	1.967
	.5577	.5093	.0468	17.92	.5069	.8989	2.069
	.5512	.5268	.0468	16.59	.5093	.9084	2.015
	.5577	.5218	.0481	17.41	.5077	.9100	2.059

AR100476

Method: HSL Sample Name: A1218SD

Operator: JCM

Run Time: 03/25/93 03:48:57

Comment:

Due: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.813	.5229	1.955	2.082	.0505	.0687	19.61
Dev	.039	.0404	.044	.010	.0000	.0009	.22
RSD	1.378	7.718	2.247	.4922	.0390	1.311	1.121

#1	2.868	.4977	1.924	2.087	.0505	.0692	19.34
	2.776	.5153	1.918	2.076	.0505	.0675	19.70
#3	2.805	.4966	1.967	2.094	.0505	.0685	19.55
#4	2.805	.5821	2.013	2.071	.0505	.0695	19.86

Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1974	.5067	.2619	2.475	.5125	7.280	.6435
Dev	.0041	.0120	.0029	.016	.0248	.059	.0070
RSD	2.092	2.370	1.124	.6422	4.847	.8071	1.094

	.1940	.5025	.2661	2.452	.5100	7.352	.6331
	.2025	.5172	.2614	2.477	.5028	7.221	.6459
#3	.1940	.4915	.2595	2.482	.4896	7.245	.6460
	.1991	.5154	.2605	2.489	.5475	7.303	.6489

Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5627	.5193	.0504	17.10	.5067	.9045	1.946
Dev	.0038	.0170	.0023	1.34	.0036	.0033	.050
RSD	.6690	3.266	4.565	7.831	.7117	.3671	2.578

	.5622	.5018	.0494	19.08	.5022	.9005	1.938
#2	.5666	.5268	.0481	16.79	.5077	.9052	1.944
	.5644	.5393	.0508	16.27	.5061	.9036	1.890
	.5578	.5093	.0535	16.28	.5109	.9085	2.012

AR100477

Method: HSL Sample Name: A1219

Operator: JCM

Time: 03/25/93 03:53:17

Comment:

Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.052	.0116	.0205	.1594	L-.0000	.0055	18.76
Dev	.026	.0390	.0426	.0013	.0000	.0026	.47
RSD	2.491	336.9	208.0	.7976	61.61	47.87	2.499

#1	1.049	.0324	.0000	.1576	L-.0000	.0031	18.18
#2	1.087	L-.0454	.0380	.1605	L-.0000	.0061	18.59
#3	1.049	.0189	L-.0266	.1595	L-.0000	.0090	19.09
#4	1.024	.0403	.0705	.1600	L-.0000	.0038	19.19

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0061	.0125	1.871	.0208	7.007	.2755
Dev	.0024	.0018	.0017	.037	.0254	.121	.0058
RSD	43.54	28.92	13.78	1.991	121.8	1.727	2.097

#1	.0089	.0084	.0135	1.823	.0427	6.899	.2688
#2	.0055	.0047	.0106	1.868	.0100	7.165	.2728
#3	.0038	.0047	.0116	1.883	L-.0100	7.038	.2787
#4	.0038	.0065	.0144	1.912	.0405	6.927	.2816

Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132	.0088	L-.0022	21.50	.0026	1.349	.0137
Dev	.0058	.0102	.0022	1.57	.0016	.020	.0844
RSD	43.63	116.6	97.94	7.287	61.61	1.500	615.5

#1	.0078	.0013	L-.0049	22.24	.0013	1.321	.0076
#2	.0143	L-.0012	L-.0023	22.87	.0012	1.347	L-.0450
#3	.0099	.0163	.0004	21.61	.0035	1.364	L-.0427
#4	.0209	.0188	L-.0022	19.28	.0043	1.364	.1350



Method: HSL Sample Name: CRIF

Operator: JCM

Run Time: 03/25/93 03:57:38

Element:

Unit: CONC Corr. Factor: 1

Element	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936	.0913	.1187	.0092	.0100	.0102	.3434
Dev	.0064	.0132	.0700	.0004	.0011	.0020	.0078
SD	6.877	14.41	58.99	4.298	10.62	19.49	2.281
#1	.0865	.0812	.1422	.0087	.0091	.0098	.3365
#2	.0971	.1089	.0156	.0092	.0109	.0119	.3368
#3	.0900	.0812	.1719	.0097	.0109	.0076	.3505
#4	.1006	.0938	.1449	.0092	.0091	.0116	.3499
Element	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236	.0205	.0151	.0315	.1156	.1252	.0121
Dev	.0008	.0018	.0012	.0019	.0213	.0157	.0006
SD	3.574	8.914	7.868	6.007	18.42	12.52	4.707
#1	.0223	.0215	.0154	.0337	.1165	.1456	.0126
#2	.0240	.0215	.0154	.0322	.1009	.1129	.0116
#3	.0240	.0215	.0135	.0308	.0997	.1293	.0116
#4	.0240	.0178	.0163	.0293	.1455	.1129	.0126
Element	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091	.0600	.0118	.7102	.0187	.0133	L-.0547
Dev	.0064	.0043	.0013	.0679	.0010	.0008	.0781
SD	70.84	7.216	10.84	9.567	5.311	5.865	142.9
#1	.0025	.0638	.0122	.6855	.0189	.0137	.0008
#2	.0091	.0563	.0135	.7601	.0174	.0137	L-.0874
#3	.0069	.0638	.0108	.6253	.0197	.0137	.0173
#4	.0178	.0563	.0108	.7697	.0190	.0122	L-.1494

Method: HSL Sample Name: ICSAF

Operator: JCM

Time: 03/25/93 04:02:08

Unit:

Mode: CONC Corr. Factor: 1

Item	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	496.5	.0253	L-.3407	.0031	L-.0012	.0042	456.1
Dev	3.3	.0373	.1383	.0003	.0009	.0056	12.9
RSD	.6743	147.0	40.58	8.880	75.42	135.0	2.820

1	499.5	.0497	L-.5383	.0034	.0002	.0119	437.8
2	497.6	.0487	L-.2382	.0029	L-.0017	.0034	456.5
3	497.1	.0322	L-.2526	.0029	L-.0017	L-.0017	463.9
4	491.7	L-.0292	L-.3336	.0034	L-.0017	.0032	466.1

Item	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0055	L-.0020	L-.0047	161.8	.0522	454.0	.0036
Dev	.0027	.0067	.0016	3.4	.0106	3.3	.0012
RSD	50.11	340.2	34.18	2.076	20.42	.7232	34.63

1	.0089	.0040	L-.0026	156.9	.0382	449.9	.0052
2	.0055	.0016	L-.0054	162.6	.0640	454.9	.0038
3	.0055	L-.0022	L-.0045	163.9	.0522	457.8	.0032
4	.0021	L-.0113	L-.0064	163.9	.0543	453.3	.0022

Item	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	.0755	L-.0181	L-.0098	.4003	L-.0283	.0033	1.028
Dev	.0039	.0195	.0015	.0417	.0010	.0029	.245
RSD	5.099	107.7	15.05	10.42	3.500	87.72	23.80

1	.0704	L-.0213	L-.0107	.4606	L-.0294	.0056	.8069
2	.0762	L-.0163	L-.0107	.3944	L-.0285	.0044	.8313
3	.0797	.0063	L-.0103	.3795	L-.0285	.0039	1.187
4	.0757	L-.0413	L-.0076	.3669	L-.0270	L-.0009	1.286

AR100480

Method: HSL Sample Name: ICSABF

Operator: JCM

Run Time: 03/25/93 04:06:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	506.9	L-.0002	L-.3107	.4295	.4319	.9742	461.6
Dev	3.9	.0579	.2181	.0045	.0104	.0137	11.8
SRSD	.7728	29850.	70.19	1.041	2.406	1.410	2.553
#1	502.8	.0814	L-.3522	.4229	.4168	.9538	445.2
#2	509.7	L-.0009	L-.5882	.4311	.4351	.9810	461.0
#3	510.8	L-.0326	L-.2323	.4316	.4351	.9788	469.2
#4	504.4	L-.0486	L-.0702	.4326	.4406	.9834	471.2
Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4191	.4146	.5014	164.0	1.022	461.6	.4182
Dev	.0052	.0059	.0031	3.0	.050	4.9	.0064
SRSD	1.249	1.416	.6240	1.822	4.933	1.071	1.538
#1	.4132	.4105	.5035	159.8	.9872	456.4	.4100
#2	.4165	.4101	.5016	164.0	1.060	459.3	.4164
#3	.4216	.4227	.5035	165.7	.9708	467.9	.4223
#4	.4249	.4153	.4969	166.5	1.071	462.9	.4243
Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0725	.8532	.9869	.6811	.3977	.9632	1.133
Dev	.0201	.0209	.0164	.0279	.0088	.0137	.297
SRSD	27.79	2.447	1.666	4.104	2.217	1.425	26.17
#1	.0492	.8294	.9650	.7207	.3865	.9440	.7512
#2	.0677	.8719	.9836	.6688	.3954	.9643	1.274
#3	.0751	.8419	1.000	.6784	.4022	.9684	1.440
#4	.0979	.8695	.9990	.6563	.4068	.9761	1.069

AR100481

Method: HSL Sample Name: CCV

Operator: JCM

Time: 03/25/93 04:11:09

Comment:

Code: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	10.20	10.22	9.809	9.849	9.711	9.837	9.430
Dev	.15	.10	.112	.082	.067	.131	.105
RSD	1.465	.9322	1.141	.8329	.6935	1.327	1.111
#1	10.21	10.14	9.699	9.785	9.640	9.673	9.290
#2	10.16	10.16	9.909	9.776	9.676	9.812	9.501
#3	10.03	10.23	9.726	9.890	9.735	9.881	9.412
#4	10.39	10.35	9.901	9.944	9.794	9.984	9.519
Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	9.367	9.705	10.13	9.621	10.19	9.965	9.320
Dev	.097	.103	.12	.094	.13	.118	.094
RSD	1.036	1.065	1.176	.9774	1.248	1.183	1.005
#1	9.228	9.562	10.14	9.488	10.18	9.980	9.183
#2	9.432	9.728	10.05	9.621	10.10	9.958	9.340
#3	9.373	9.722	10.03	9.682	10.12	9.818	9.363
#4	9.435	9.808	10.29	9.693	10.38	10.11	9.393
Elem	MO	NI	AG	NA	V	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	9.908	9.815	.9875	12.47	9.528	10.02	9.676
Dev	.140	.148	.0120	.79	.078	.13	.046
RSD	1.408	1.512	1.220	6.342	.8149	1.260	.4756
#1	9.724	9.600	.9753	12.46	9.423	9.864	9.692
#2	9.877	9.835	.9905	12.24	9.543	9.999	9.609
#3	10.03	9.925	.9811	11.64	9.538	10.07	9.689
#4	10.00	9.900	1.003	13.54	9.610	10.16	9.714

AR100482

Method: HSL Sample Name: CCB  
Run Time: 03/25/93 04:15:38  
Comment:  
Cue: CONC Corr. Factor: 1

Operator: JCM

Elem	AL	SB	AS	BA	BE	CD	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0749	.0364	.0217	.0007	.0018	.0005	.0261
Stdev	.0185	.0232	.0257	.0003	.0000	.0036	.0112
RSD	24.70	63.63	118.5	38.48	.5244	656.1	43.18
#1	.0793	.0348	.0346	.0010	.0018	L-.0046	.0302
#2	.0864	.0638	.0479	.0010	.0018	.0024	.0396
#3	.0476	.0399	.0156	.0005	.0018	.0011	.0206
#4	.0864	.0073	L-.0113	.0005	.0018	.0033	.0138

Elem	CR	CO	CU	FE	PB	MG	MN
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.0027	.0040	.0114	.0227	.0052	.0017
Stdev	.0040	.0048	.0023	.0025	.0547	.0215	.0008
RSD	63.48	175.4	57.60	22.04	241.4	415.5	46.39
#1	.0089	.0069	.0059	.0146	L-.0015	L-.0060	.0027
#2	.0072	.0050	.0059	.0117	.0969	.0348	.0017
#3	.0089	.0032	.0031	.0103	.0264	L-.0143	.0008
#4	.0004	L-.0041	.0012	.0088	L-.0310	.0061	.0017

Elem	MO	NI	AG	NA	ZN	SE
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223	.0000	L-.0007	.3226	.0014	.0036
Stdev	.0062	.0138	.0026	.0190	.0018	.0020
RSD	27.68	823800	387.2	5.886	127.3	56.04
#1	.0311	.0089	.0013	.3192	.0008	.0043
#2	.0223	.0138	.0014	.3377	.0004	.0059
#3	.0180	L-.0063	L-.0040	.2971	.0032	.0028
#4	.0179	L-.0165	L-.0013	.3365	L-.0008	.0012

*Handwritten notes and signatures:*  
 202  
 JCM  
 3/25/93

METALS EXTRACTION LOG

QC BATCH # M029

MATRIX AQUEOUS

SAMPLE I.D.	DATE EXTRACTED		DATE COMPLETED		SAMPLE VOLUME (ml)			FINAL VOLUME (mls)	T IN
	P/A	Hg	P/A	Hg	GFAA	ICR	Hg		
1 A1108	3/8/93		3/8/93		100	100		100	DHT
2 A1218	3/12/93	3/11/93	3/12/93	3/16/93	100	100	100	100	MAD
3 A1219	↓	↓	↓	↓	↓	↓	↓	↓	↓
4 A1242	3/15/93		3/15/93		N/A	100	N/A	100	MAD
5 A1265	3/16/93	3/16/93			100	100	100	100	DHT/Jan
6 A1277	3/18/93	3/23/93	3/18/93	3/23/93	100	100	100	100	MAD
7 A1278	↓	↓	↓	↓	↓	↓	↓	↓	↓
8 A1279	↓	↓	↓	↓	↓	↓	↓	↓	↓
9 A1281	↓	3/19/93	↓	3/19/93	↓	↓	100	↓	↓
10 A1282	↓	↓	↓	↓	↓	↓	↓	↓	↓
11 A1291	3/22/93	N/A	3/22/93	N/A	N/A	100	N/A	100	MAD
12 A1294	3/23/93		3/23/93		100	100		100	MAD
13 A1295	↓		↓		↓	↓		↓	↓
14 A1302	3/25/93	N/A	3/25/93	N/A	N/A	100	N/A	100	MAD
15 A1303	↓	↓	↓	↓	↓	↓	↓	↓	↓
DUP.									
MTH BLK	3/12/93	3/16/93	3/12/93	3/16/93	N/A	N/A	100	100	MAD
ERA#9945 MTH SPK	↓	↓	↓	↓	1.0	1.0	1.0	↓	↓
MTH BLK									
MTH SPK									
SX SPK A1218	3/12/93	3/16/93	3/12/93	3/16/93	100	100	100	100	MAD
SX SPK A1218 DUP	↓	↓	↓	↓	↓	↓	↓	↓	↓
SX SPK A1277	3/19/93	3/23/93	3/19/93	3/23/93	100	100	100	100	MAD
SX SPK A1277 DUP	↓	↓	↓	↓	↓	↓	↓	↓	↓

COMMENTS: HCl added for silver digestion.

SX SPIKE A1278

SX STD. A1278

AR100484

METALS EXTRACTION LOG

QC BATCH # m031

MATRIX Solid

SAMPLE I.D.	DATE EXTRACTED		DATE COMPLETED		SAMPLE WEIGHT (g)			FINAL VOLUME (mls)	TECHS INITIAL
	P/A	Hg	P/A	Hg	GFAA	ICP	Hg		
1 A1216	3-15-93	3/16/93	3/15/93	3/16/93	1.10	1.20	0.23 0.25	100	DHT/JK
2 A1217	↓	↓	↓	↓	1.01	1.11	0.25 0.22	↓	↓
3 A1224		Digestion			N/A				
4 A1225									
5 A1226									
6 A1227									
7 A1228									
8 A1229									
9 A1230									
10 A1231	3/15/93		3/15/93		0.98	NR	NR	100	MAD
11 A1232	↓		↓		NR	1.02	NR	100	↓
12 A1233	↓		↓		1.08	0.99	NR	↓	↓
13 A1236	↓		↓		NR	1.17	NR	↓	↓
14 A1239	↓		↓		NR	1.13	NR	↓	↓
15 A1241	↓		↓		1.17	1.04	0.19	↓	↓
DUP:									
MTH BLK	3/15/93	3/23/93	3/15/93	3/23/93	N/A	N/A	N/A	100	MAD
ERAK215	↓	↓	↓	↓	0.25	0.51	0.14	100	↓
MTH SPK									
MTH BLK									
MTH SPK									
SX SPK A1241	3/15/93	3/23/93	3/15/93	3/23/93	0.95	1.07	0.19	100	MAD
A1241	↓	↓	↓	↓	1.16	1.13	0.21	↓	↓
SX SPK DUP									
SX SPK A1217	3/19/93	3/23/93	3/19/93	3/23/93	1.07	1.05	0.22	100	MAD
A1217	↓	↓	↓	↓	1.00	0.97	0.18	↓	↓
SX SPK DUP									

COMMENTS: HCl added for silver digestion.

AR100485