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NEW YORK STATE SUPERFUND CONTRACT
IMMEDIATE INVESTIGATION WORK ASSIGNMENT

VOLUME III

APPENDIX C (Continued)

Atlas Graphics
Site No. 1-30-043B
Work Assignment No. D002676-20
DATE: March 1999

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
John Cahill, *Commissioner*

Division of Environmental Remediation
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By:
Lawler, Matusky & Skelly Engineers LLP

APPENDIX C

Analytical Data Summary Sheets (continued)

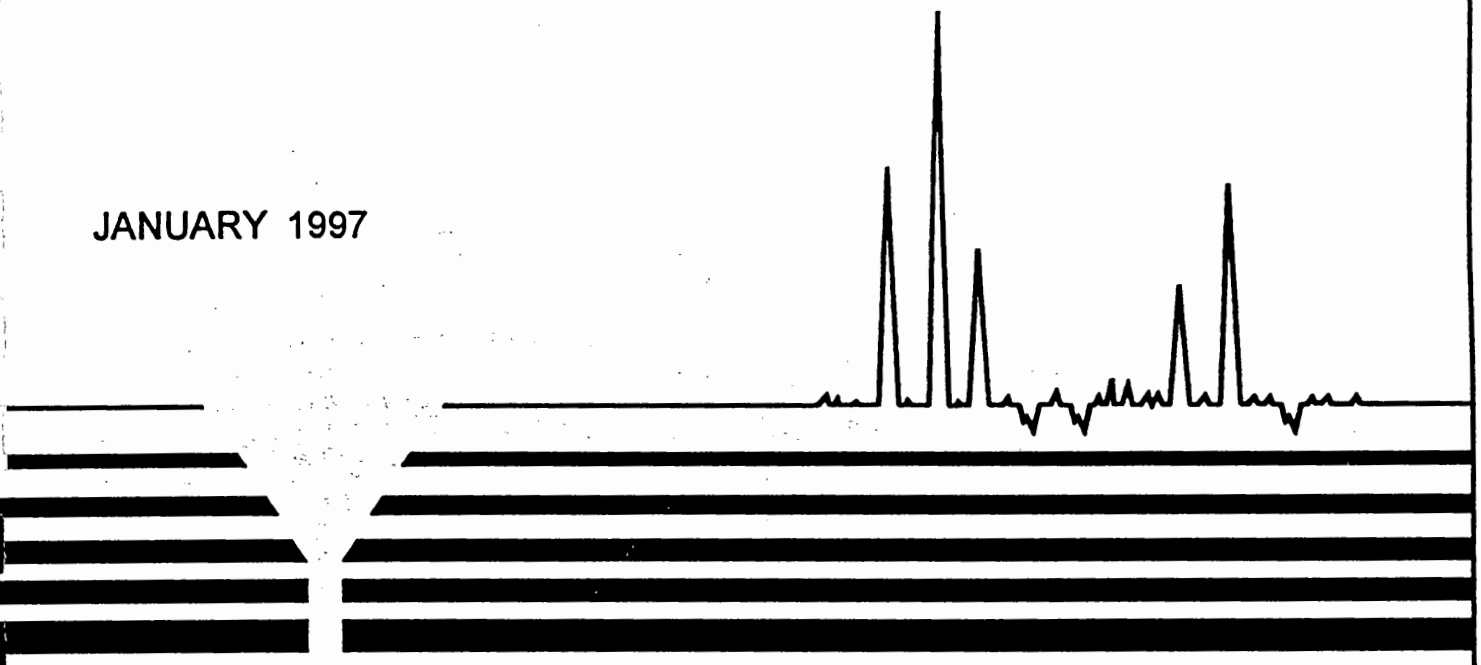
Analytical Data Package For

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0
CONTRACT #: C003180
CASE #: RA096 SDG #: 0122

Water and Soil Samples
RECEIVED: January 23, 1997

SEMIVOLATILE DATA



JANUARY 1997

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

NAECB - 0122

H2M LABS, INC.

SEMIVOLATILES

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B 0002

B ~~0001~~

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (2FP) #	S2 (PD5) #	S3 (2CP) #	S4 (DCB) #	S5 (NBZ) #	S6 (FBP) #	S7 (TBP) #	S8 (TPH) #	TOT OUT
01	SBLK01	72	74	75	80	91	93	73	93	0
02	LFB(1/24)	73	76	76	77	86	94	86	99	0
03	B60214	70	72	77	73	81	85	77	92	0

				QC LIMITS
S1	(2FP)	=	2-Fluorophenol	(25-121)
S2	(PD5)	=	Phenol-d5	(24-113)
S3	(2CP)	=	2-Chlorophenol-d4	(20-130)
S4	(DCB)	=	1,2-Dichlorobenzene-d4	(20-130)
S5	(NBZ)	=	Nitrobenzene-d5	(23-120)
S6	(FBP)	=	2-Fluorobiphenyl	(30-115)
S7	(TBP)	=	2,4,6-Tribromophenol	(19-122)
S8	(TPH)	=	Terphenyl-d14	(18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

SOIL LABORATORY FORTIFIED BLANK RECOVERY

LAB SAMPLE ID: LFB(1/24)
RUN #: C03342.D
DATE ANALYZED: 02/18/97

ANALYTE	LFB CONC. (ug/Kg)	SPIKE AMT. (ug/Kg)	% REC.	#	QC LIMITS LCL	QC LIMITS UCL
Phenol	784	830	94		30	126
bis(2-Chloroethyl)ether	767	830	92		23	119
2-Chlorophenol	718	830	87		32	122
1,3-Dichlorobenzene	673	830	81		39	111
1,4-Dichlorobenzene	688	830	83		38	116
1,2-Dichlorobenzene	672	830	81		40	112
2-Methylphenol	600	830	72		27	141
2,2'-oxybis(1-Chloropropane)	625	830	75		9	147
4-Methylphenol	633	830	76		15	141
N-Nitroso-di-n-propylamine	709	830	85		19	133
Hexachloroethane	698	830	84		39	111
Nitrobenzene	694	830	84		39	129
Isophorone	688	830	83		30	126
2-Nitrophenol	791	830	95		37	121
2,4-Dimethylphenol	162	830	20	*	31	133
bis(2-Chloroethoxy)methane	811	830	98		46	112
2,4-Dichlorophenol	820	830	99		40	124
1,2,4-Trichlorobenzene	746	830	90		48	114
Naphthalene	741	830	89		46	118
4-Chloroaniline	331	830	40		0	155
Hexachlorobutadiene	756	830	91		49	115
4-Chloro-3-methylphenol	856	830	103		39	135
2-Methylnaphthalene	746	830	90		49	121
Hexachlorocyclopentadiene	603	830	73		0	134
2,4,6-Trichlorophenol	847	830	102		37	133
2,4,5-Trichlorophenol	835	830	101		16	148
2-Chloronaphthalene	801	830	97		47	125
2-Nitroaniline	807	830	97		33	135
Dimethylphthalate	812	830	98		49	127
Acenaphthylene	823	830	99		47	119
2,6-Dinitrotoluene	801	830	97		48	120
3-Nitroaniline	485	830	58		4	166
Acenaphthene	806	830	97		49	127
2,4-Dinitrophenol	777	830	94		0	120
4-Nitrophenol	926	830	112		10	166
Dibenzofuran	813	830	98		48	120
2,4-Dinitrotoluene	804	830	97		46	118

Column used to flag recoveries outside QC limits.
* Recovery of analyte is outside QC limits.

~~B 0003~~
B 0004

SOIL LABORATORY FORTIFIED BLANK RECOVERY

LAB SAMPLE ID: LFB(1/24)
RUN #: C03342.D
DATE ANALYZED: 02/18/97

ANALYTE	LFB CONC. (ug/Kg)	SPIKE AMT. (ug/Kg)	% REC.	#	QC LIMITS LCL	QC LIMITS UCL
Diethylphthalate	842	830	101		50	128
Fluorene	843	830	102		50	122
4-Chlorophenyl-phenylether	826	830	100		51	123
4-Nitroaniline	796	830	96		0	227
4,6-Dinitro-2-methylphenol	802	830	97		29	137
N-Nitrosodiphenylamine	1159	830	140	*	52	124
4-Bromophenyl-phenylether	761	830	92		55	127
Hexachlorobenzene	794	830	96		55	127
Pentachlorophenol	727	830	88		0	157
Phenanthrene	818	830	99		54	126
Anthracene	855	830	103		58	124
Carbazole	953	830	115		3	243
Di-n-butylphthalate	785	830	95		50	128
Fluoranthene	824	830	99		48	120
Pyrene	865	830	104		46	124
Butylbenzylphthalate	874	830	105		42	132
Benzo[a]anthracene	798	830	96		48	120
3,3'-Dichlorobenzidine	352	830	42		6	186
Chrysene	1140	830	137	*	47	125
bis(2-Ethylhexyl)phthalate	814	830	98		29	127
Di-n-octylphthalate	795	830	96		41	125
Benzo[b]fluoranthene	840	830	101		35	119
Benzo[k]fluoranthene	905	830	109		40	136
Benzo[a]pyrene	821	830	99		49	121
Indeno[1,2,3-cd]pyrene	918	830	111		34	130
Dibenz[a,h]anthracene	1162	830	140	*	35	131
Benzo[g,h,i]perylene	1123	830	135	*	29	131

Column used to flag recoveries outside QC limits.
* Recovery of analyte is outside QC limits.

B 0005
~~B 0003~~
~~B 0004~~

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Lab File ID: C03341.D Lab Sample ID: SBLK(1/24)

Instrument ID: H5972 Date Extracted: 01/24/97

Matrix: (soil/water) SOIL Date Analyzed: 02/18/97

Level: (low/med) LOW Time Analyzed: 17:43

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LFB(1/24)	LFB(1/24)	C03342.D	02/18/97
02	B60214	9702028	C03348.D	02/18/97

COMMENTS:

B 0006

~~B 0004~~

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Lab File ID: C03242.D DFTPP Injection Date: 02/10/97

Instrument ID: H5972 DFTPP Injection Time: 12:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	48.7
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	59.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	25.7
365	Greater than 1.00% of mass 198	2.9
441	Present, but less than mass 443	12.6
442	40.0 - 110.0% of mass 198	73.8
443	17.0 - 23.0% of mass 442	14.7 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	C03243.D	02/10/97	12:18
02	SSTD050	SSTD050	C03244.D	02/10/97	13:25
03	SSTD080	SSTD080	C03245.D	02/10/97	13:56
04	SSTD120	SSTD120	C03246.D	02/10/97	14:28
05	SSTD160	SSTD160	C03247.D	02/10/97	14:59

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Lab File ID: C03336.D DFTPP Injection Date: 02/18/97

Instrument ID: H5972 DFTPP Injection Time: 15:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	48.0
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	55.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.4
365	Greater than 1.00% of mass 198	2.2
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	63.5
443	17.0 - 23.0% of mass 442	12.3 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	C03337.D	02/18/97	15:36
02	SBLK01	SBLK(1/24)	C03341.D	02/18/97	17:43
03	LFB(1/24)	LFB(1/24)	C03342.D	02/18/97	18:14
04	B60214	9702028	C03348.D	02/18/97	21:24

B 0008

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Lab File ID (Standard): C03337.D Date Analyzed: 02/18/97

Instrument ID: H5972 Time Analyzed: 15:36

		IS1(DCB) AREA #	RT #	IS2(NAP) AREA #	RT #	IS3(ACE) AREA #	RT #
	12 HOUR STD	126772	6.27	476773	8.29	245835	11.62
	UPPER LIMIT	253544	6.77	953546	8.79	491670	12.12
	LOWER LIMIT	63386	5.77	238387	7.79	122918	11.12
	EPA SAMPLE NO.						
01	SBLK01	111002	6.28	390720	8.29	192722	11.62
02	LFB(1/24)	106980	6.27	386238	8.29	194411	11.62
03	B60214	109542	6.28	414565	8.29	214177	11.62

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NAP) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CHY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

B 0009

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Lab File ID (Standard): C03337.D Date Analyzed: 02/18/97

Instrument ID: H5972 Time Analyzed: 15:36

		IS4(PHN) AREA #	RT #	IS5(CHY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	375423	14.01	337005	16.69	381441	18.46
	UPPER LIMIT	750846	14.51	674010	17.19	762882	18.96
	LOWER LIMIT	187712	13.51	168503	16.19	190721	17.96
	EPA SAMPLE NO.						
01	SBLK01	316487	14.01	289167	16.69	294705	18.45
02	LFB(1/24)	328469	14.01	278118	16.69	308321	18.45
03	B60214	326914	14.01	240612	16.68	281452	18.46

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NAP) = Naphthalene-d8
IS3 (ACE) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CHY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

B 0010

INSTRUMENT DETECTION LIMITS FOR SEMIVOLATILE COMPOUNDS

Instrument ID: H5972 Column ID: RESTEK-5MS Analysis Date: 10/8/96

Method: CLP Amount analyzed: 20 ng

COMPOUND	C02084.D	C02085.D	C02086.D	C02087.D	C02088.D	C02089.D	C02090.D	S	IDL (ng)
Phenol	21.87	21.70	21.59	21.33	21.06	21.54	21.30	0.27	0.86
bis(2-Chloroethyl)ether	23.00	22.21	22.35	22.06	22.26	22.06	22.05	0.34	1.05
2-Chlorophenol	21.01	21.36	20.96	20.50	20.99	20.95	21.07	0.25	0.79
1,3-Dichlorobenzene	21.35	21.52	21.91	20.94	21.13	21.76	21.37	0.34	1.06
1,4-Dichlorobenzene	21.50	21.42	21.71	21.52	21.56	21.53	21.94	0.18	0.55
1,2-Dichlorobenzene	21.35	21.79	21.89	21.21	21.80	21.27	21.78	0.29	0.92
2-Methylphenol	22.69	22.13	21.91	21.42	7.82	20.23	20.47	5.24	16.44
2,2'-oxybis(1-Chloropropane)	21.85	21.51	21.38	21.11	20.92	21.14	21.58	0.32	1.01
4-Methylphenol	21.73	22.28	21.45	21.65	21.74	21.56	21.47	0.28	0.89
N-Nitroso-di-n-propylamine	22.06	21.57	22.32	20.86	21.31	21.29	21.97	0.51	1.61
Hexachloroethane	22.19	21.68	21.12	21.91	21.77	21.83	21.40	0.35	1.10
Nitrobenzene	21.43	21.40	21.33	21.41	21.06	21.35	21.37	0.13	0.41
Isophorone	23.32	22.93	23.01	22.81	23.03	22.79	22.90	0.18	0.55
2-Nitrophenol	21.28	20.89	20.68	20.30	20.73	20.65	20.19	0.36	1.14
2,4-Dimethylphenol	18.52	18.34	18.19	18.04	18.04	16.70	17.61	0.61	1.91
bis(2-Chloroethoxy)methane	21.30	21.15	21.24	21.00	20.83	20.88	20.84	0.20	0.61
2,4-Dichlorophenol	20.68	20.78	20.70	20.77	20.44	20.66	20.58	0.12	0.37
1,2,4-Trichlorobenzene	21.63	21.74	21.64	21.47	21.27	21.63	21.70	0.16	0.51
Naphthalene	21.58	21.47	21.61	21.68	21.42	21.45	21.36	0.12	0.37
4-Chloroaniline	21.60	21.24	21.31	21.48	20.91	21.34	21.42	0.22	0.68
Hexachlorobutadiene	21.05	21.45	21.98	22.17	21.46	21.75	22.18	0.42	1.32
4-Chloro-3-methylphenol	20.98	20.79	20.37	20.50	20.54	20.37	20.37	0.24	0.75
2-Methylnaphthalene	21.35	21.70	21.78	21.99	21.66	21.70	21.62	0.19	0.60
Hexachlorocyclopentadiene	14.36	14.57	14.32	13.84	13.62	14.32	14.35	0.34	1.06
2,4,6-Trichlorophenol	20.55	20.56	20.72	20.69	20.26	20.56	20.31	0.18	0.56
2,4,5-Trichlorophenol	20.07	20.21	20.14	20.43	20.49	20.18	20.30	0.15	0.49
2-Chloronaphthalene	21.57	21.56	21.42	21.34	21.45	21.71	21.49	0.12	0.38
2-Nitroaniline	20.56	20.57	20.02	20.36	19.85	19.98	19.95	0.31	0.96
Dimethylphthalate	21.58	21.58	21.72	21.46	21.49	21.81	21.60	0.12	0.38
Acenaphthylene	21.03	21.42	21.13	21.07	20.87	21.25	21.01	0.18	0.57
2,6-Dinitrotoluene	20.80	21.21	21.54	21.25	20.73	21.00	21.21	0.28	0.88
3-Nitroaniline	21.00	20.83	20.99	21.54	20.70	20.85	20.70	0.29	0.91
Acenaphthene	21.59	21.91	21.51	21.32	21.28	21.64	21.63	0.21	0.66
2,4-Dinitrophenol	11.43	11.73	11.82	11.66	11.64	11.35	11.62	0.17	0.52
4-Nitrophenol	16.25	17.29	17.00	17.98	16.97	16.64	16.96	0.54	1.69
Dibenzofuran	21.52	21.51	21.68	21.51	21.58	21.88	21.58	0.14	0.43
2,4-Dinitrotoluene	21.18	20.91	21.15	21.11	21.00	21.39	21.22	0.16	0.49
Diethylphthalate	21.44	21.54	21.91	21.61	21.47	21.88	21.82	0.20	0.62
Fluorene	21.43	21.38	21.51	21.35	21.38	21.96	21.80	0.24	0.76
4-Chlorophenyl-phenylether	21.78	22.05	22.33	22.11	21.75	22.40	22.13	0.25	0.78
4-Nitroaniline	21.65	20.93	21.23	21.32	20.65	20.76	20.85	0.36	1.12
4,6-Dinitro-2-methylphenol	17.52	17.09	16.94	17.07	17.17	16.98	17.30	0.20	0.63

B 0011

INSTRUMENT DETECTION LIMITS FOR SEMIVOLATILE COMPOUNDS

Instrument ID: H5972 Column ID: RESTEK-5MS Analysis Date: 10/8/96

Method: CLP Amount analyzed: 20 ng

COMPOUND	C02084.D	C02085.D	C02086.D	C02087.D	C02088.D	C02089.D	C02090.D	S	IDL (ng)
N-Nitrosodiphenylamine	21.90	21.16	21.43	21.06	21.19	21.38	20.77	0.35	1.11
4-Bromophenyl-phenylether	21.70	21.04	21.07	21.43	21.44	21.75	21.07	0.30	0.95
Hexachlorobenzene	21.97	21.82	21.79	21.53	21.92	22.18	22.18	0.23	0.71
Pentachlorophenol	11.46	12.39	12.02	12.22	12.02	11.24	11.89	0.41	1.28
Phenanthrene	22.22	21.58	21.65	21.70	21.89	21.66	21.48	0.25	0.77
Anthracene	21.61	21.45	21.62	21.45	20.98	21.46	21.44	0.21	0.67
Carbazole	22.21	21.44	21.46	21.81	21.69	21.21	21.42	0.33	1.04
Di-n-butylphthalate	21.74	21.61	21.25	21.59	20.98	21.52	21.33	0.26	0.81
Fluoranthene	22.22	21.51	21.94	22.42	21.65	21.85	21.92	0.31	0.98
Pyrene	22.51	22.16	22.12	21.43	21.76	22.23	21.43	0.42	1.30
Butylbenzylphthalate	21.68	21.32	21.45	21.01	20.95	21.38	20.58	0.37	1.16
Benzo[a]anthracene	22.52	21.65	21.99	21.93	21.66	21.87	21.45	0.34	1.08
3,3'-Dichlorobenzidine	21.99	21.83	22.00	22.12	21.77	22.20	22.48	0.24	0.75
Chrysene	21.86	21.85	21.99	21.25	21.80	21.83	21.55	0.25	0.79
bis(2-Ethylhexyl)phthalate	22.21	21.91	21.72	21.26	21.62	21.20	21.20	0.39	1.23
Di-n-octylphthalate	21.51	21.37	21.04	20.86	20.71	20.34	20.10	0.51	1.61
Benzo[b]fluoranthene	19.08	19.90	20.03	23.51	20.81	19.83	20.04	1.44	4.52
Benzo[k]fluoranthene	25.82	24.64	24.57	20.88	23.55	24.33	23.32	1.55	4.87
Benzo[a]pyrene	21.45	21.41	21.61	21.88	21.64	21.66	21.42	0.17	0.54
Indeno[1,2,3-cd]pyrene	21.66	21.84	22.02	22.19	22.05	22.67	22.00	0.32	1.00
Dibenz[a,h]anthracene	21.86	22.20	22.03	22.45	22.31	22.93	22.35	0.34	1.08
Benzo[g,h,i]perylene	22.34	22.37	22.47	22.74	22.44	23.25	22.26	0.34	1.07

B 0012

II. SAMPLE DATA PACKAGE FOR SEMIVOLATILES

A. REPORTS
B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{330\ U}{D} \times df \quad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{330\ U}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: 9702028

Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: 5.3 decanted: (Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8

Number TICs found: ~~7~~ 5

CONCENTRATION UNITS:

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	3.62	370	JN AB
2.	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.33	9900	JN AB
3.		unknown alkane	4.49	710	J B
4.		unknown alkane	4.59	820	J B
5.		unknown	5.33	710	J
6.		unknown	6.69	340	J
7.	000103-23-1	Hexanedioic acid, bis(2-ethylhexy	16.12	940	JN

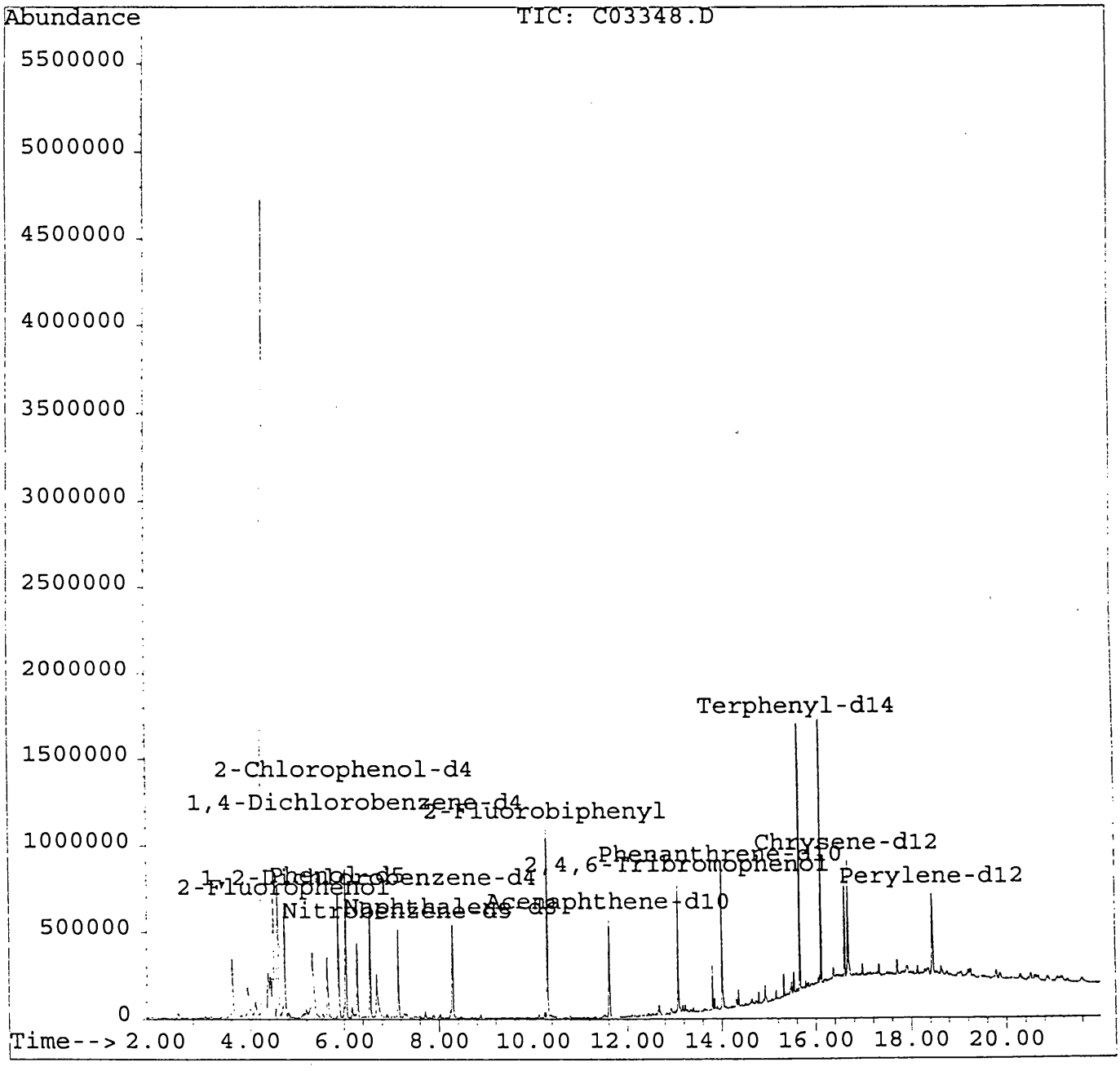
(AB) 2/19/97

B 0018

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 9:24 pm Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00
Quant Time: Feb 19 11:30 1997

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0019

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: 9702028

Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: 5.3 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84662	Diethylphthalate	350	U
86737	Fluorene	350	U
7005723	4-Chlorophenyl-phenylether	350	U
100016	4-Nitroaniline	880	U
534521	4,6-Dinitro-2-methylphenol	880	U
86306	N-Nitrosodiphenylamine	350	U
101553	4-Bromophenyl-phenylether	350	U
118741	Hexachlorobenzene	350	U
87865	Pentachlorophenol	880	U
85018	Phenanthrene	55	J
120127	Anthracene	350	U
86748	Carbazole	350	U
84742	Di-n-butylphthalate	350	U
206440	Fluoranthene	110	J
129000	Pyrene	110	J
85687	Butylbenzylphthalate	350	U
56553	Benzo[a]anthracene	58	J
91941	3,3'-Dichlorobenzidine	350	U
218019	Chrysene	99	J
117817	bis(2-Ethylhexyl)phthalate	400	
117840	Di-n-octylphthalate	350	U
205992	Benzo[b]fluoranthene	64	J
207089	Benzo[k]fluoranthene	69	J
50328	Benzo[a]pyrene	55	J
193395	Indeno[1,2,3-cd]pyrene	49	J
53703	Dibenz[a,h]anthracene	350	U
191242	Benzo[g,h,i]perylene	69	J

B 0017

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: 9702028

Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: 5.3 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

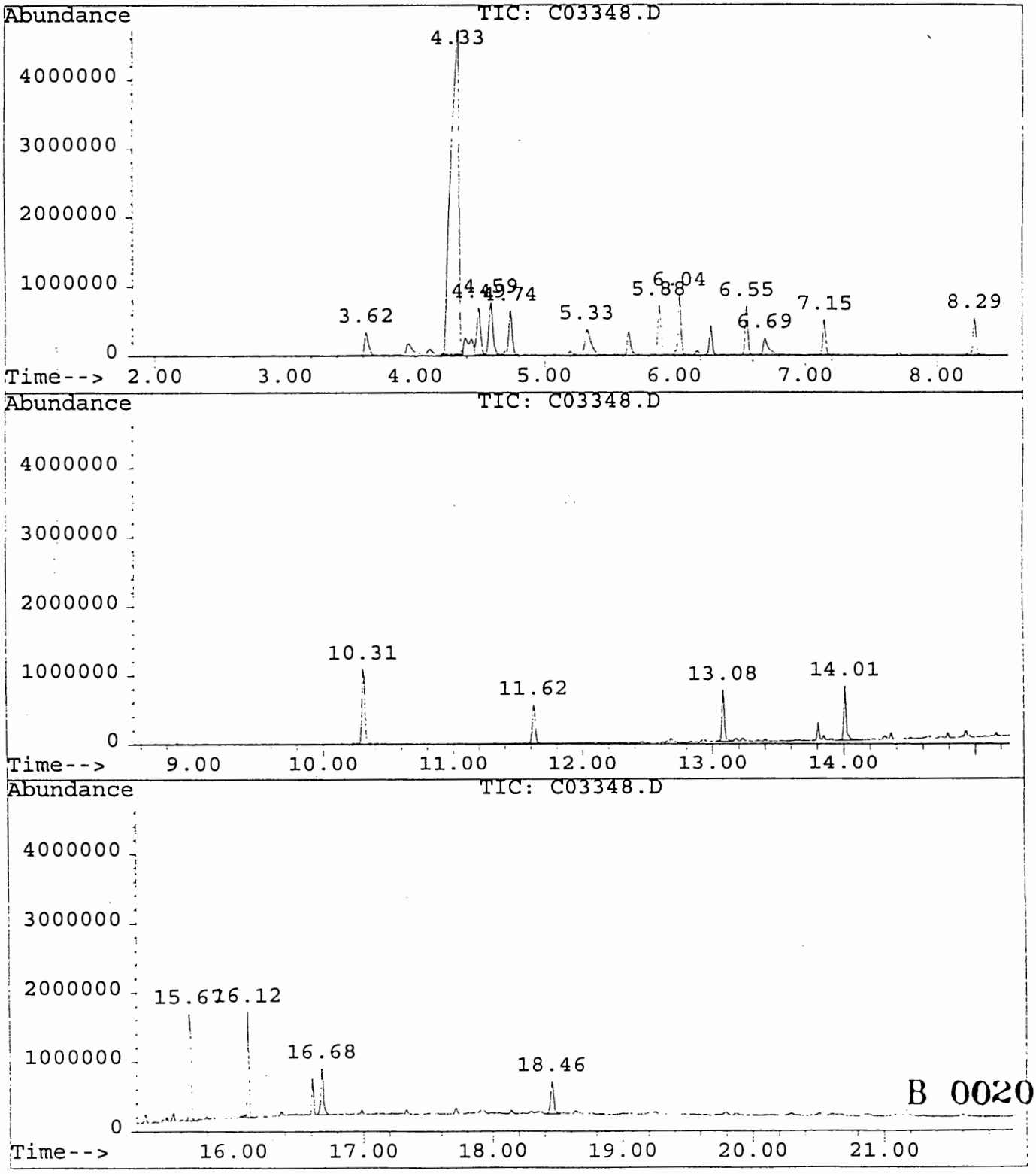
Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108952	Phenol	350	U
111444	bis(2-Chloroethyl)ether	350	U
95578	2-Chlorophenol	350	U
541731	1,3-Dichlorobenzene	350	U
106467	1,4-Dichlorobenzene	350	U
95501	1,2-Dichlorobenzene	350	U
95487	2-Methylphenol	350	U
108601	2,2'-oxybis(1-Chloropropane)	350	U
106445	4-Methylphenol	350	U
621647	N-Nitroso-di-n-propylamine	350	U
67721	Hexachloroethane	350	U
98953	Nitrobenzene	350	U
78591	Isophorone	350	U
88755	2-Nitrophenol	350	U
105679	2,4-Dimethylphenol	350	U
111911	bis(2-Chloroethoxy)methane	350	U
120832	2,4-Dichlorophenol	350	U
120821	1,2,4-Trichlorobenzene	350	U
91203	Naphthalene	350	U
106478	4-Chloroaniline	350	U
87683	Hexachlorobutadiene	350	U
59507	4-Chloro-3-methylphenol	350	U
91576	2-Methylnaphthalene	350	U
77474	Hexachlorocyclopentadiene	350	U
88062	2,4,6-Trichlorophenol	350	U
95954	2,4,5-Trichlorophenol	880	U
91587	2-Chloronaphthalene	350	U
88744	2-Nitroaniline	880	U
131113	Dimethylphthalate	350	U
208968	Acenaphthylene	350	U
606202	2,6-Dinitrotoluene	350	U
99092	3-Nitroaniline	880	U
83329	Acenaphthene	350	U
51285	2,4-Dinitrophenol	880	U
100027	4-Nitrophenol	880	U
132649	Dibenzofuran	350	U
121142	2,4-Dinitrotoluene	350	U

B 0016

File : C:\HPCHEM\1\DATA\C03348.D
Operator : ANNMARIE
Acquired : 18 Feb 97 21:24 using AcqMethod CLPS
Instrument : 5972 - GC
Sample Name: 9702028
Misc Info : B60214 H5972 5 UL BN392 => 0.5 ML
Vial Number: 13



B 0020

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00
Quant Time: Feb 19 11:30 1997

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : CLP BNA Calibration
Last Update : Wed Feb 19 10:20:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03337.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	109542	40.00	ng	0.00
17) Naphthalene-d8	8.29	136	414565#	40.00	ng	0.00
31) Acenaphthene-d10	11.62	164	214177	40.00	ng	0.00
52) Phenanthrene-d10	14.01	188	326914#	40.00	ng	0.00
63) Chrysene-d12	16.68	240	240612	40.00	ng	0.00
71) Perylene-d12	18.46	264	281452	40.00	ng	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	4.74	112	364401	104.56	ng	69.71%
3) Phenol-d5	5.88	99	428158	108.57	ng	72.38%
6) 2-Chlorophenol-d4	6.04	132	442270	114.79	ng	76.53%
10) 1,2-Dichlorobenzene-d4	6.55	152	174544	72.82	ng	72.82%
18) Nitrobenzene-d5	7.15	82	249690	80.85	ng	80.85%
35) 2-Fluorobiphenyl	10.31	172	560720	84.54	ng	84.54%
51) 2,4,6-Tribromophenol	13.08	330	109195	115.95	ng	77.30%
65) Terphenyl-d14	15.67	244	474070	91.81	ng	91.81%
Target Compounds						**Qvalue**
58) Phenanthrene	14.04	178	27885	3.12	ng	# 92
62) Fluoranthene	15.33	202	58660	5.99	ng	95
64) Pyrene	15.54	202	50347	6.18	ng	97
67) Benzo[a]anthracene	16.66	228	22345m	3.31	ng	91
69) Chrysene	16.71	228	27698	5.64	ng	# 90
70) bis(2-Ethylhexyl)phthalate	16.61	149	162772	22.61	ng	# 97
73) Benzo[b]fluoranthene	17.91	252	25610m	3.64	ng	84
74) Benzo[k]fluoranthene	17.93	252	25334m	3.94	ng	90
75) Benzo[a]pyrene	18.37	252	20167	3.15	ng	98
76) Indeno[1,2,3-cd]pyrene	20.30	276	20221	2.80	ng	99
78) Benzo[g,h,i]perylene	20.87	276	18700	3.94	ng	# 94

CAO 2/19/97

B 0021

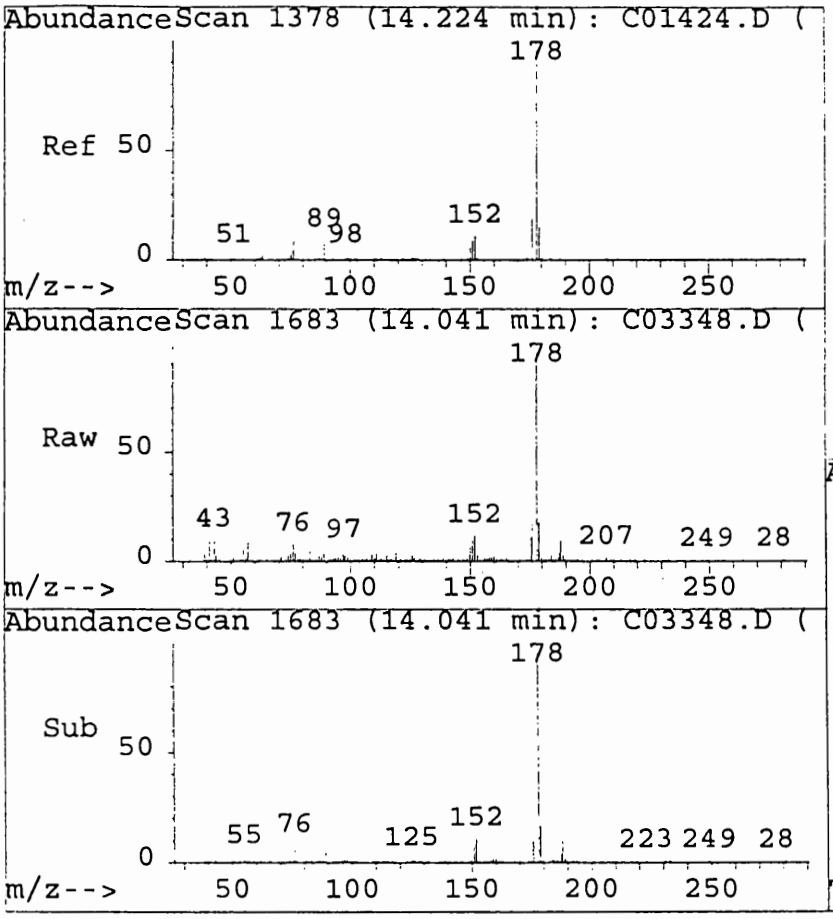
(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: ANNMARIE Date Acquired: 18 Feb 97 21:24
Data File: C:\HPCHEM\1\DATA\C03348.D
Name: 9702028
Misc: B60214 H5972 5 UL BN392 => 0.5 ML
Method: CLPS
Title: CLP BNA Calibration
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
-Penten-2-one, 4-me	3.62	21.1	ng	745817	ISTD01	6.28	1414813	40.0
-Pentanone, 4-hydro	4.33	564.1	ng	19953088	ISTD01	6.28	1414813	40.0
Octane, 4-methyl-	4.49	40.2	ng	1422125	ISTD01	6.28	1414813	40.0
ctane, 3-methyl-	4.59	46.5	ng	1645235	ISTD01	6.28	1414813	40.0
-Hydroxy-5-oxohexan	5.33	40.3	ng	1425200	ISTD01	6.28	1414813	40.0
Propanoic acid, 2-me	6.69	19.3	ng	683907	ISTD01	6.28	1414813	40.0
Hexanedioic acid, bi	16.12	53.7	ng	1307378	ISTD05	16.68	974465	40.0

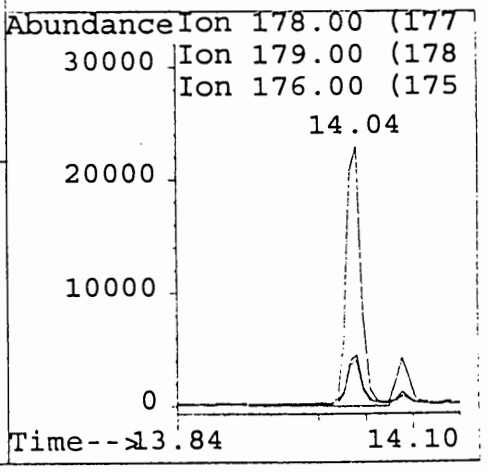
B 0022

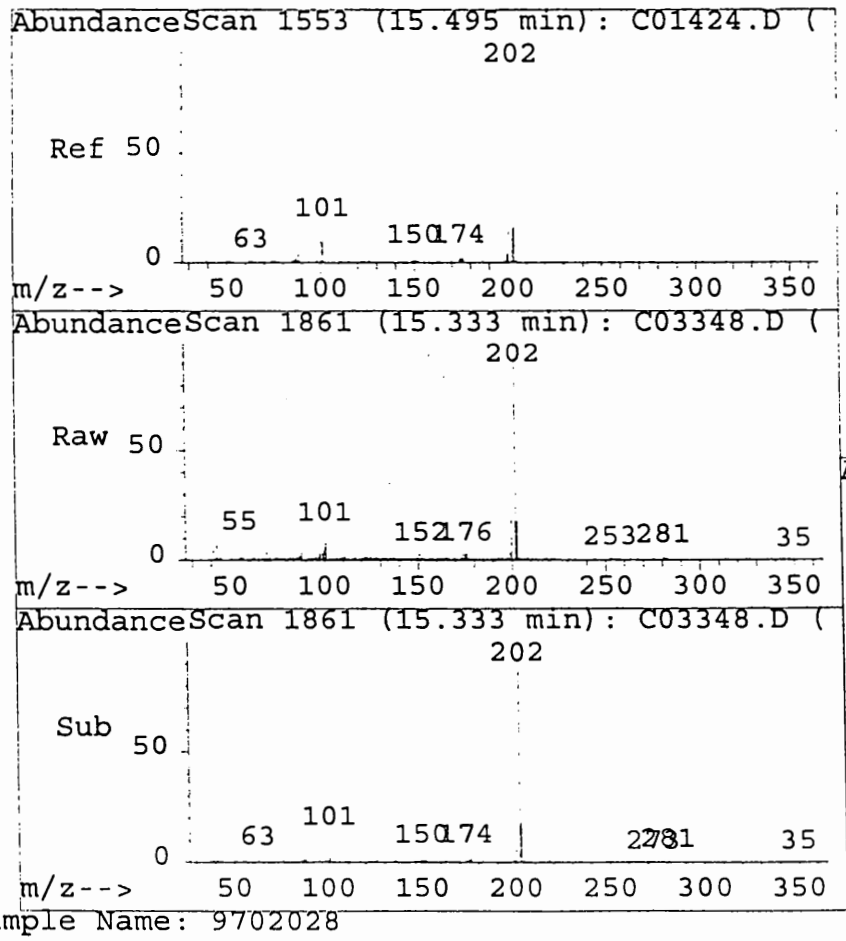


#58
Phenanthrene
Concen: 3.12 ng
RT: 14.04 min Scan# 1683
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:178 Resp: 27885

Ion	Ratio	Lower	Upper
178	100		
179	17.6	12.2	18.3
176	23.1	14.9	22.4#
0	0.0	0.0	0.0

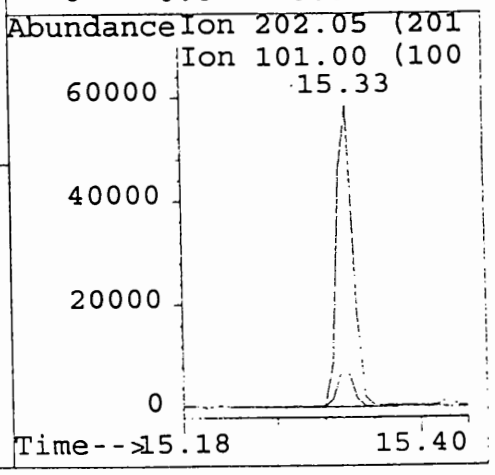




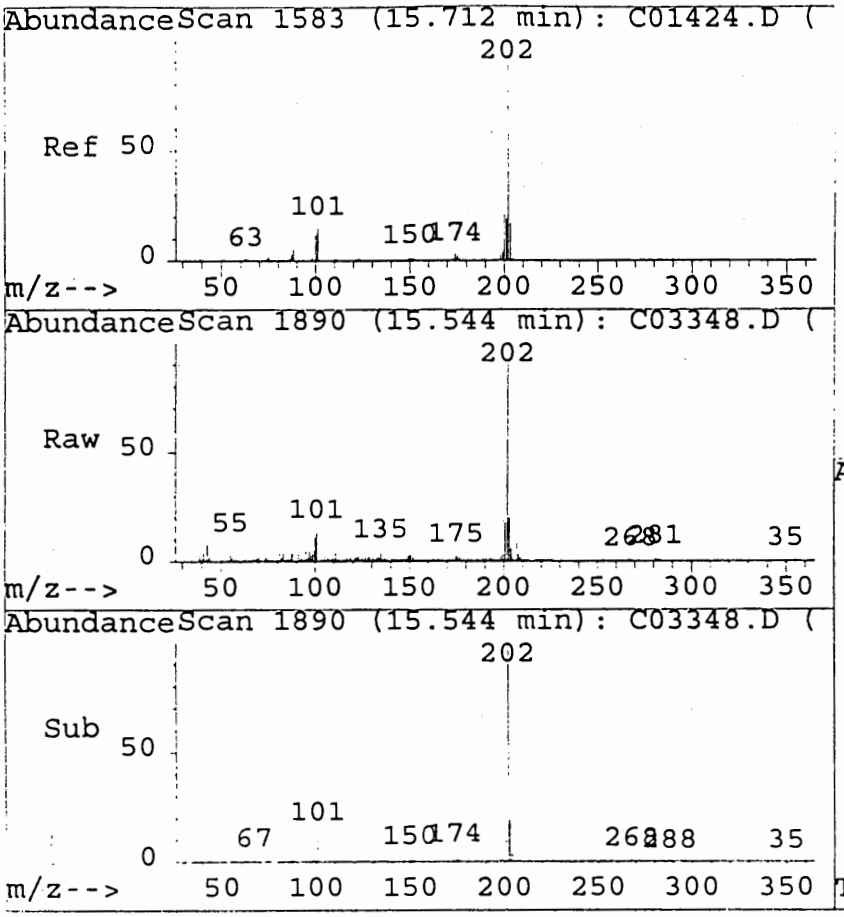
#62
Fluoranthene
Concen: 5.99 ng
RT: 15.33 min Scan# 1861
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:202.05 Resp: 58660

Ion	Ratio	Lower	Upper
202	100		
101	13.0	12.0	17.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



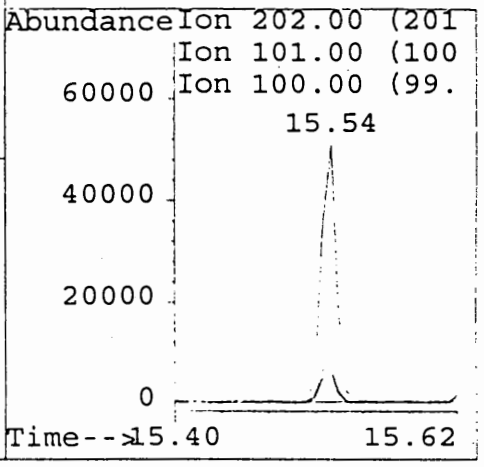
Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:15 1997 H5890C

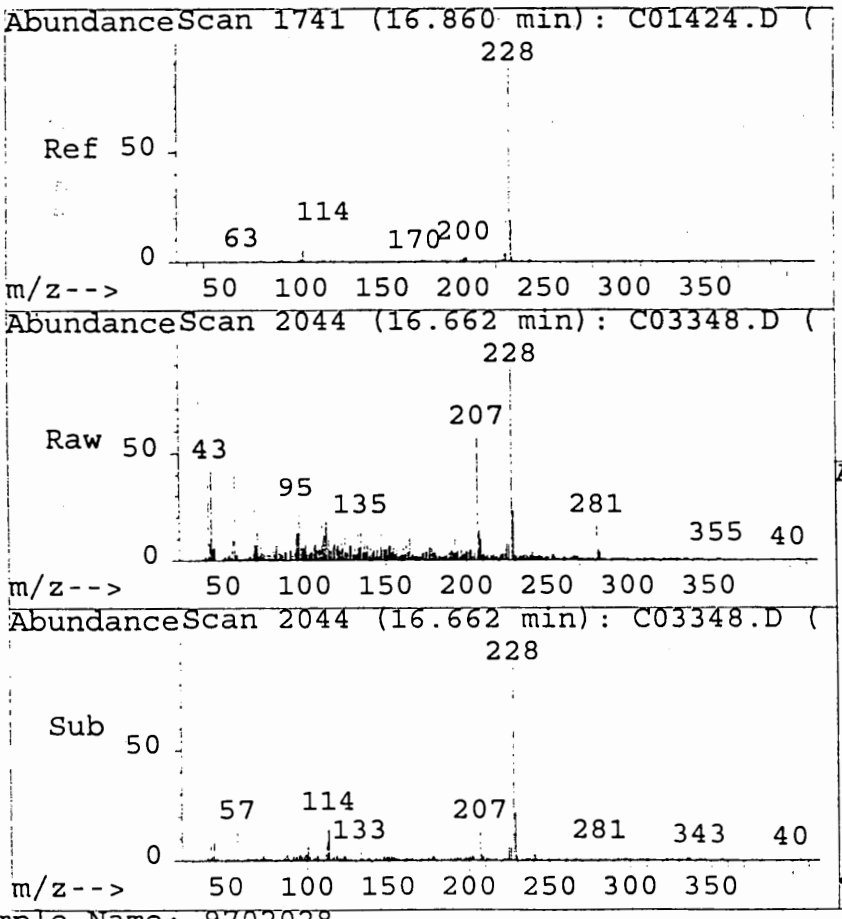


#64
Pyrene
Concen: 6.18 ng
RT: 15.54 min Scan# 1890
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:202 Resp: 50347

Ion	Ratio	Lower	Upper
202	100		
101	15.8	14.4	21.5
100	15.1	12.0	17.9
0	0.0	0.0	0.0

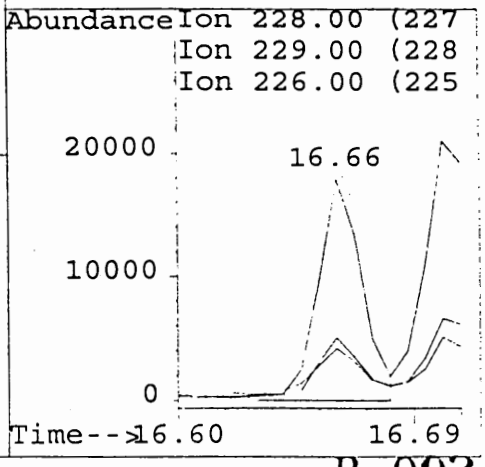




#67
Benzo[a]anthracene
Concen: 3.31 ng m
RT: 16.66 min Scan# 2044
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

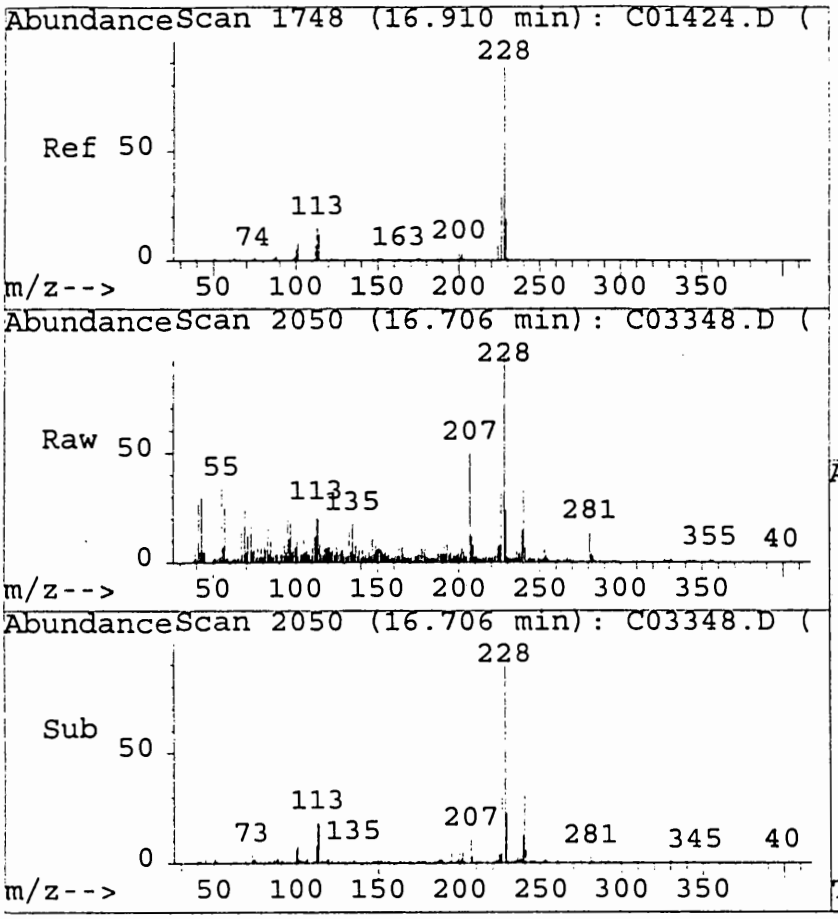
Tgt Ion:228 Resp: 22345

Ion	Ratio	Lower	Upper
228	100		
229	23.4	15.9	23.8
226	28.3	20.1	30.2
0	0.0	0.0	0.0



Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:21 1997 H5890C

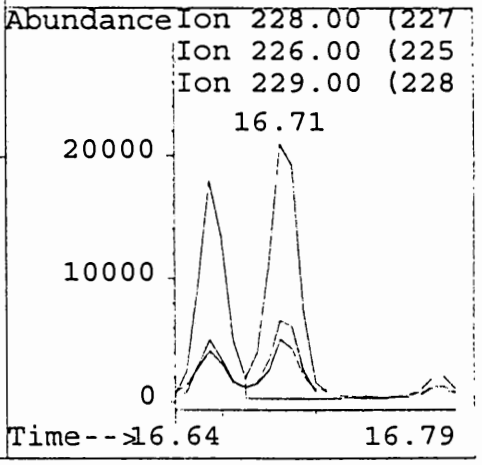
B 0024

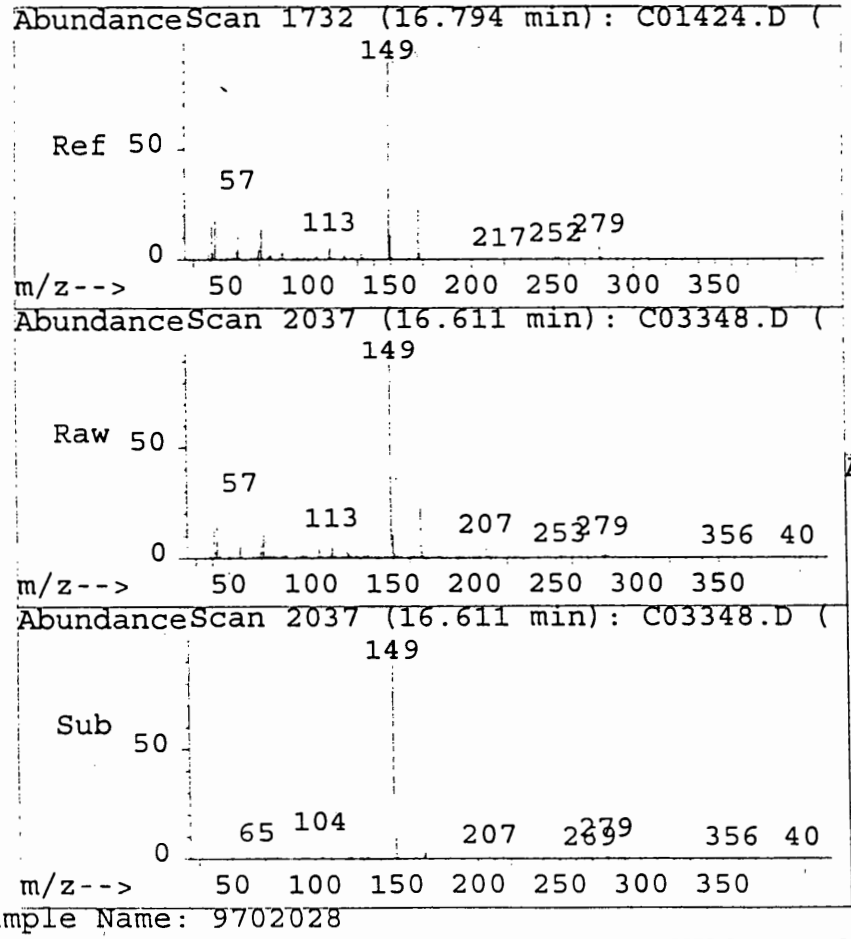


#69
Chrysene
Concen: 5.64 ng
RT: 16.71 min Scan# 2050
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:228 Resp: 27698

Ion	Ratio	Lower	Upper
228	100		
226	31.4	21.8	32.7
229	24.8	15.7	23.5#
0	0.0	0.0	0.0

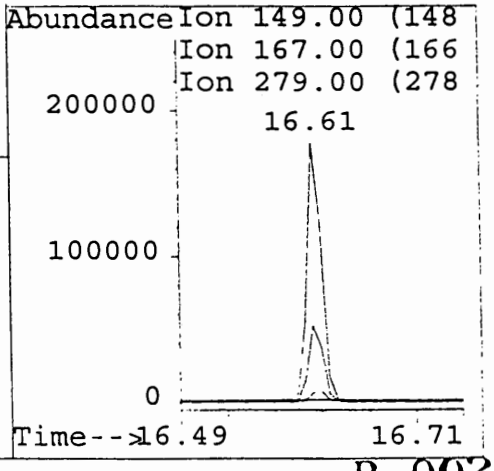




#70
bis(2-Ethylhexyl)phthalate
Concen: 22.61 ng
RT: 16.61 min Scan# 2037
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

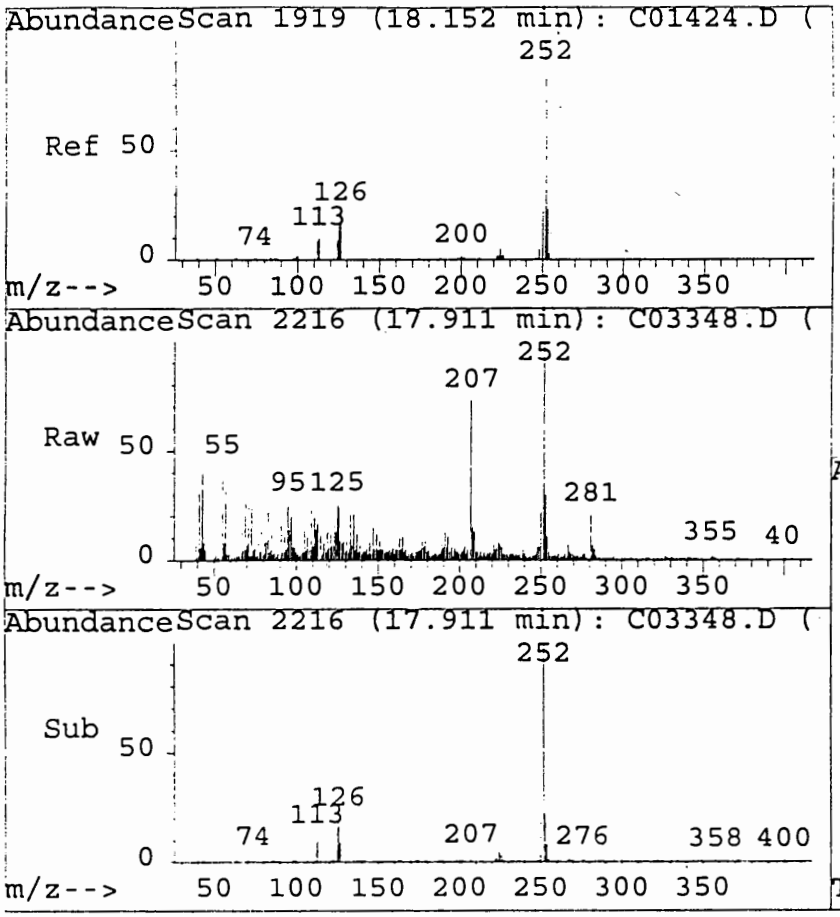
Tgt Ion:149 Resp: 162772

Ion	Ratio	Lower	Upper
149	100		
167	30.0	25.6	38.3
279	4.8	4.9	7.4#
0	0.0	0.0	0.0



Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:26 1997 H5890C

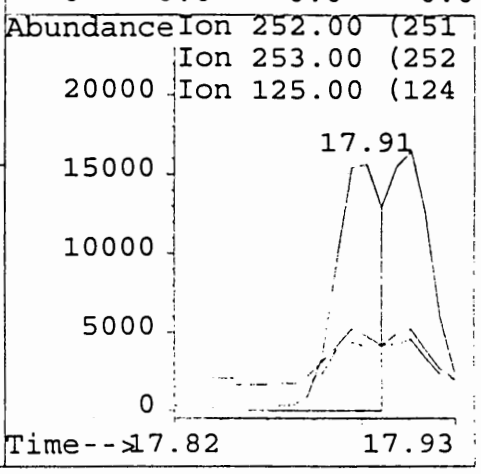
B 0025

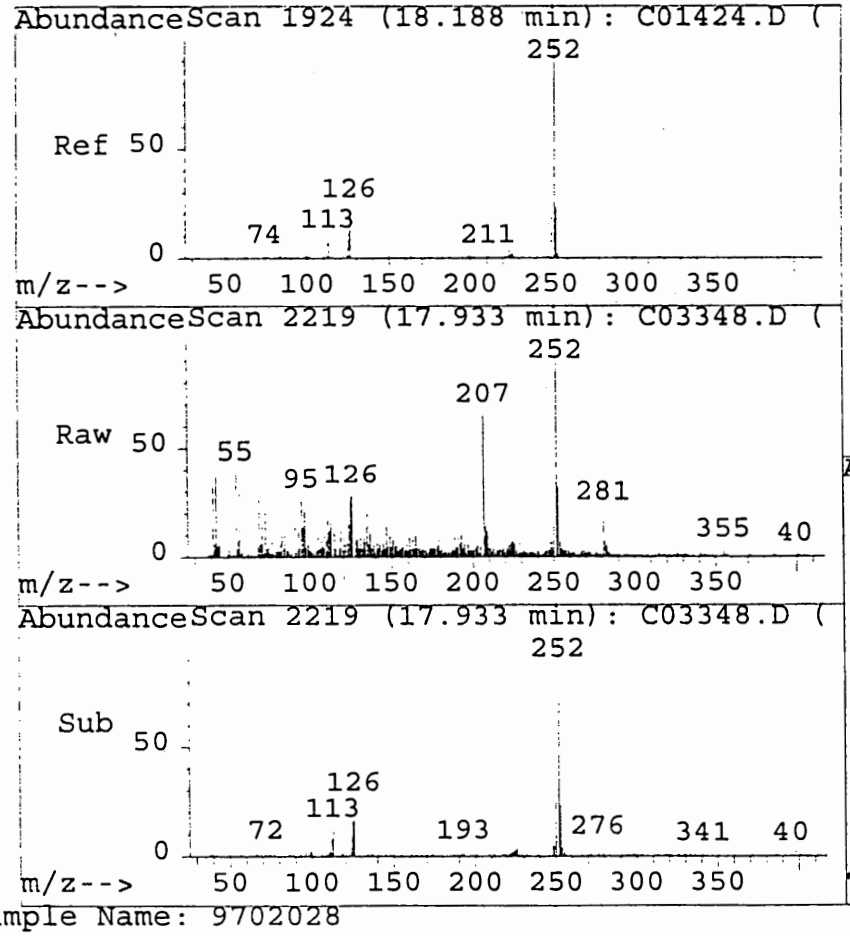


#73
Benzo[b]fluoranthene
Concen: 3.64 ng m
RT: 17.91 min Scan# 2216
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:252 Resp: 25610

Ion	Ratio	Lower	Upper
252	100		
253	30.4	18.1	27.2#
125	26.1	13.7	20.6#
0	0.0	0.0	0.0

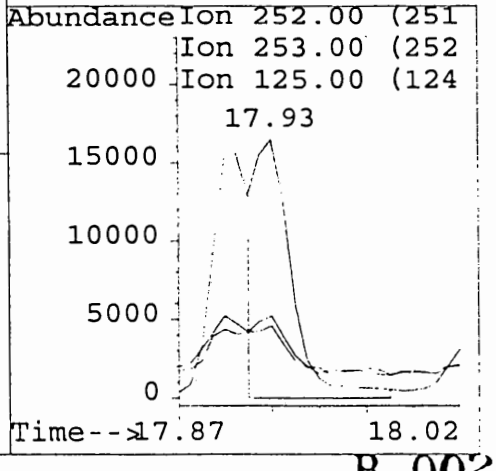




#74
Benzo[k]fluoranthene
Concen: 3.94 ng m
RT: 17.93 min Scan# 2219
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

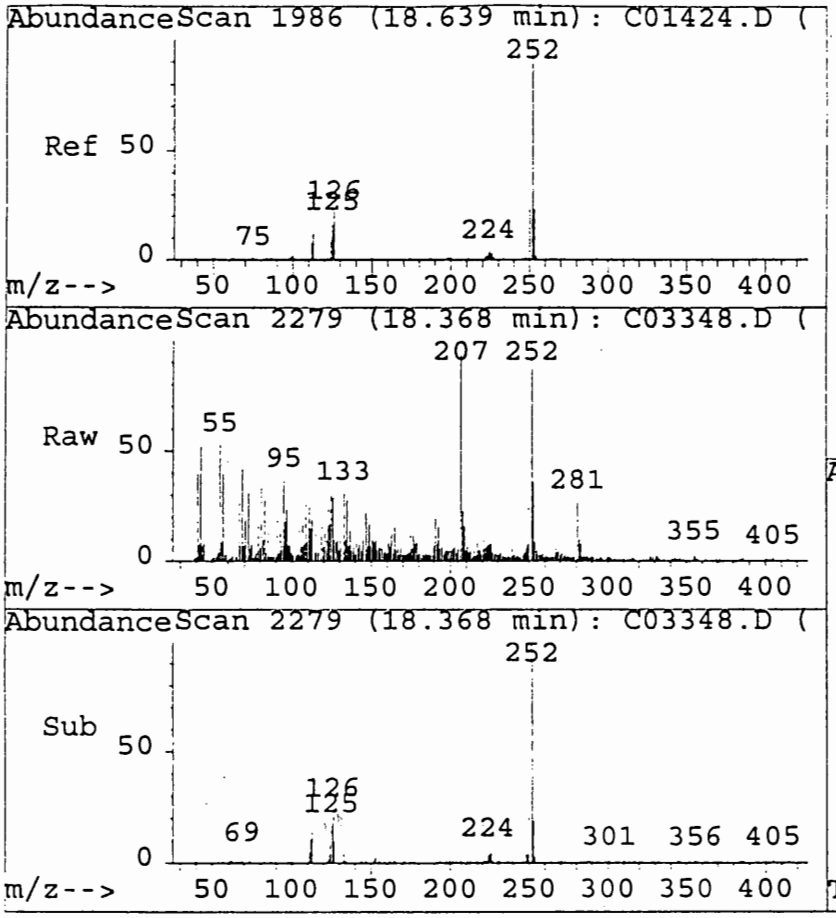
Tgt Ion:252 Resp: 25334

Ion	Ratio	Lower	Upper
252	100		
253	31.9	17.7	26.5#
125	27.9	17.5	26.2#
0	0.0	0.0	0.0



Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:31 1997 H5890C

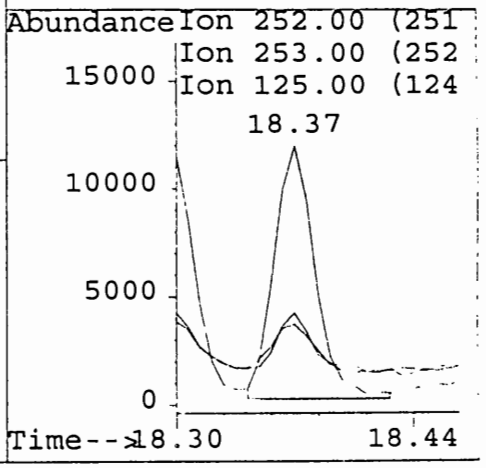
B 0026

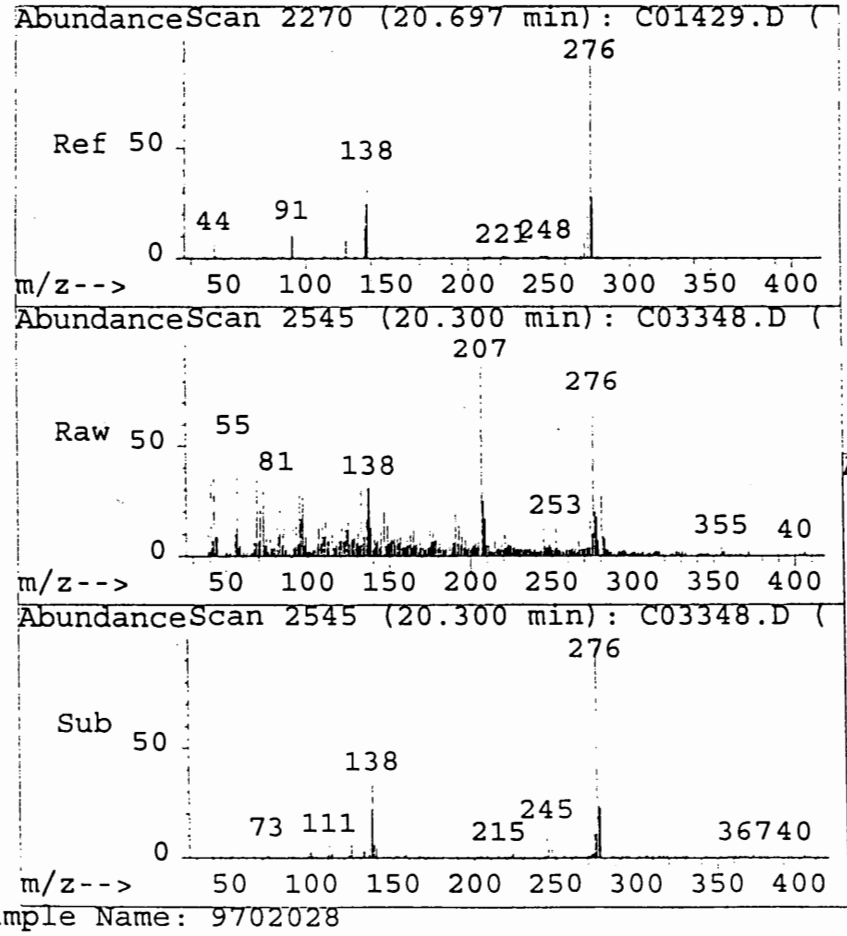


#75
Benzo[a]pyrene
Concen: 3.15 ng
RT: 18.37 min Scan# 2279
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:252 Resp: 20167

Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.0	26.9
125	21.1	16.6	24.9
0	0.0	0.0	0.0

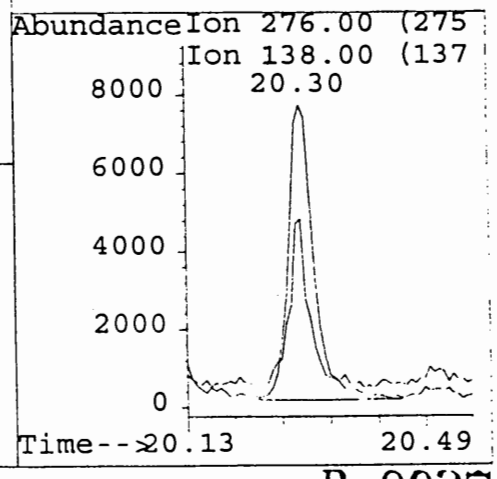




#76
Indeno[1,2,3-cd]pyrene
Concen: 2.80 ng
RT: 20.30 min Scan# 2545
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

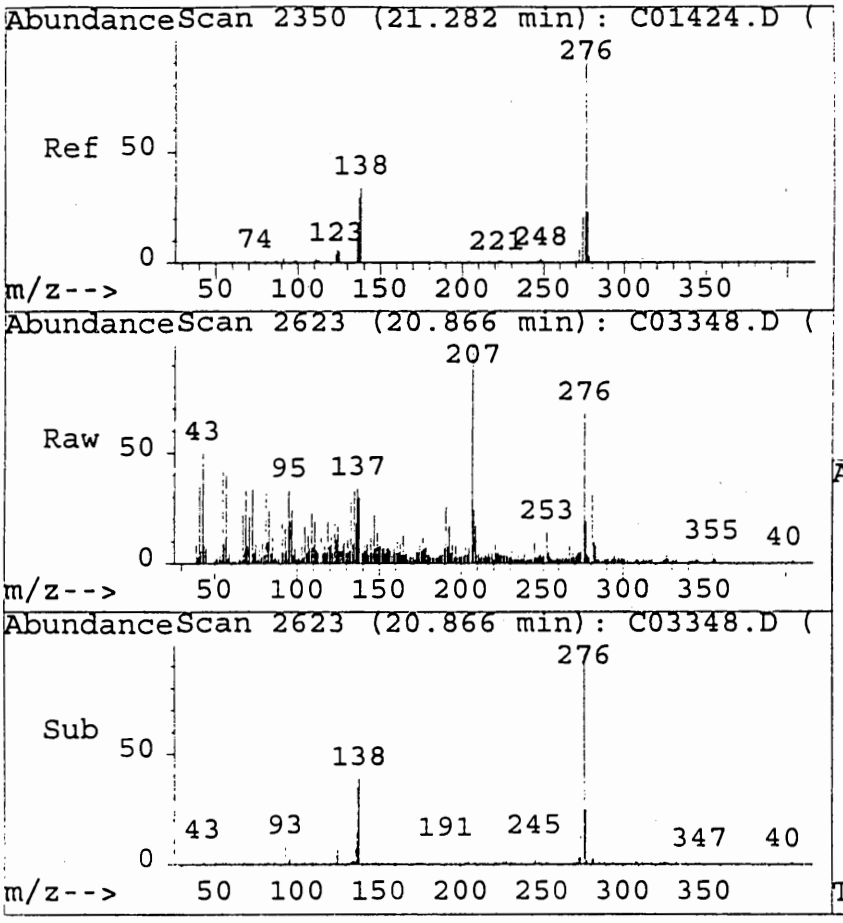
Tgt Ion:276 Resp: 20221

Ion	Ratio	Lower	Upper
276	100		
138	46.8	37.9	56.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:36 1997 H5890C

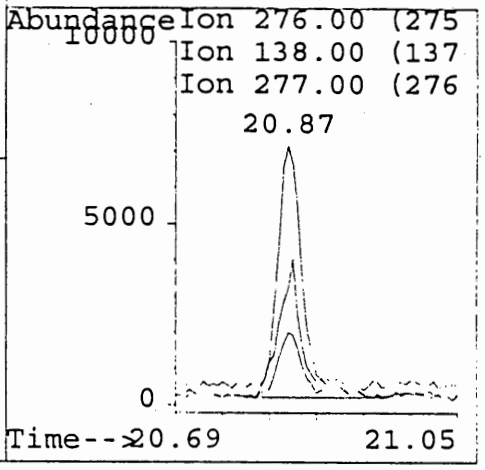
B 0027



#78
Benzo[g,h,i]perylene
Concen: 3.94 ng
RT: 20.87 min Scan# 2623
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion:276 Resp: 18700

Ion	Ratio	Lower	Upper
276	100		
138	42.8	33.3	49.9
277	29.9	19.3	28.9#
0	0.0	0.0	0.0



B 0028

Sample Name: 9702028
Misc. Info: B60214 H5972 5 UL BN392 => 0.5 ML
C03348.D CLP2.M Wed Feb 19 11:40:39 1997 H5890C

Library Search Compound Report

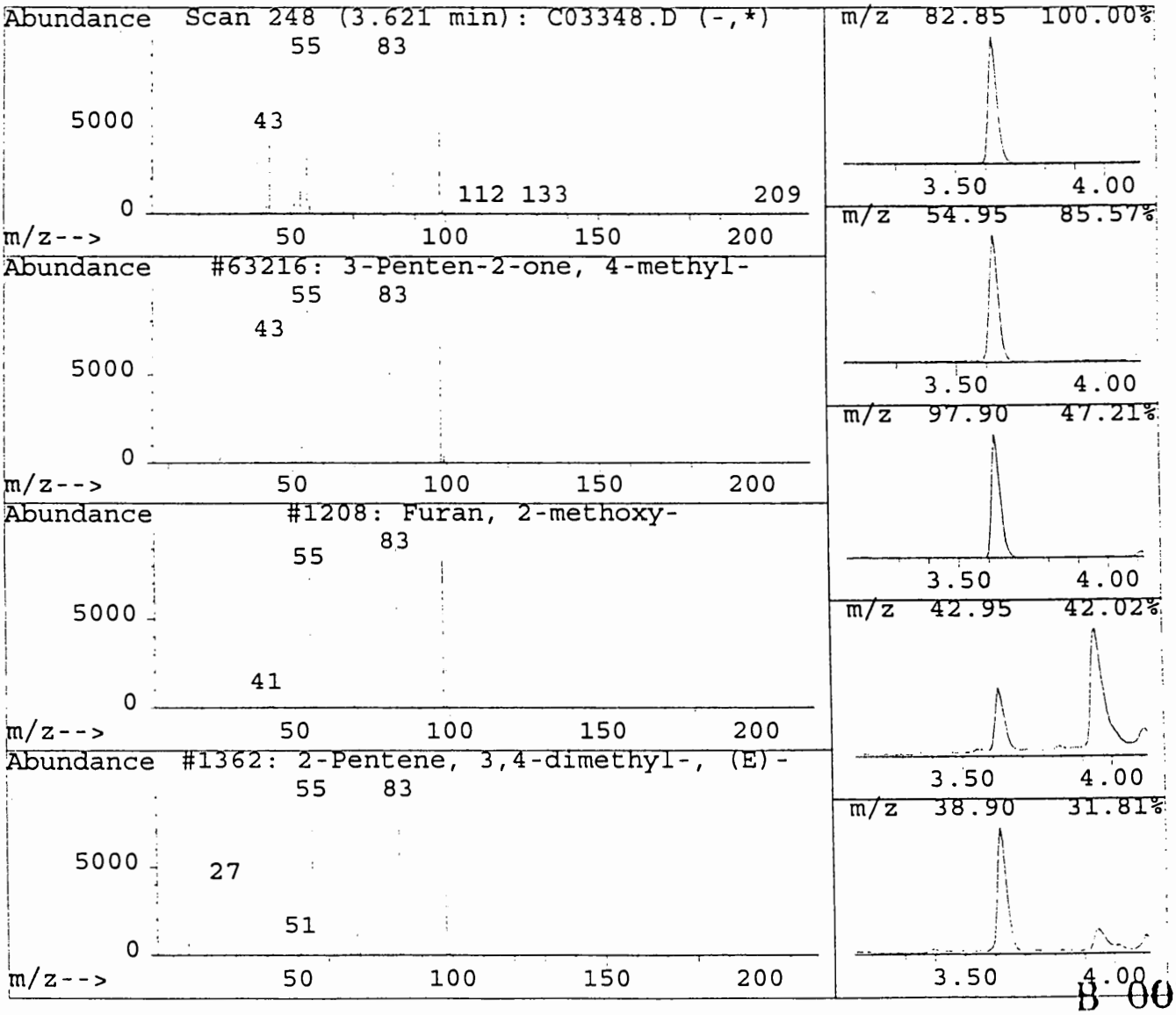
Data File : C:\HPCHEM\1\DATA\C03348.D
Acq On : 18 Feb 97 21:24
Sample : 9702028
Misc : B60214 H5972 5 UL BN392 => 0.5 ML

Vial: 13
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.62	21.09 ng	745817	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	94
2	Furan, 2-methoxy-	98	C5H6O2	025414-22-6	83
3	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	78
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
5	2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	64



B 0029

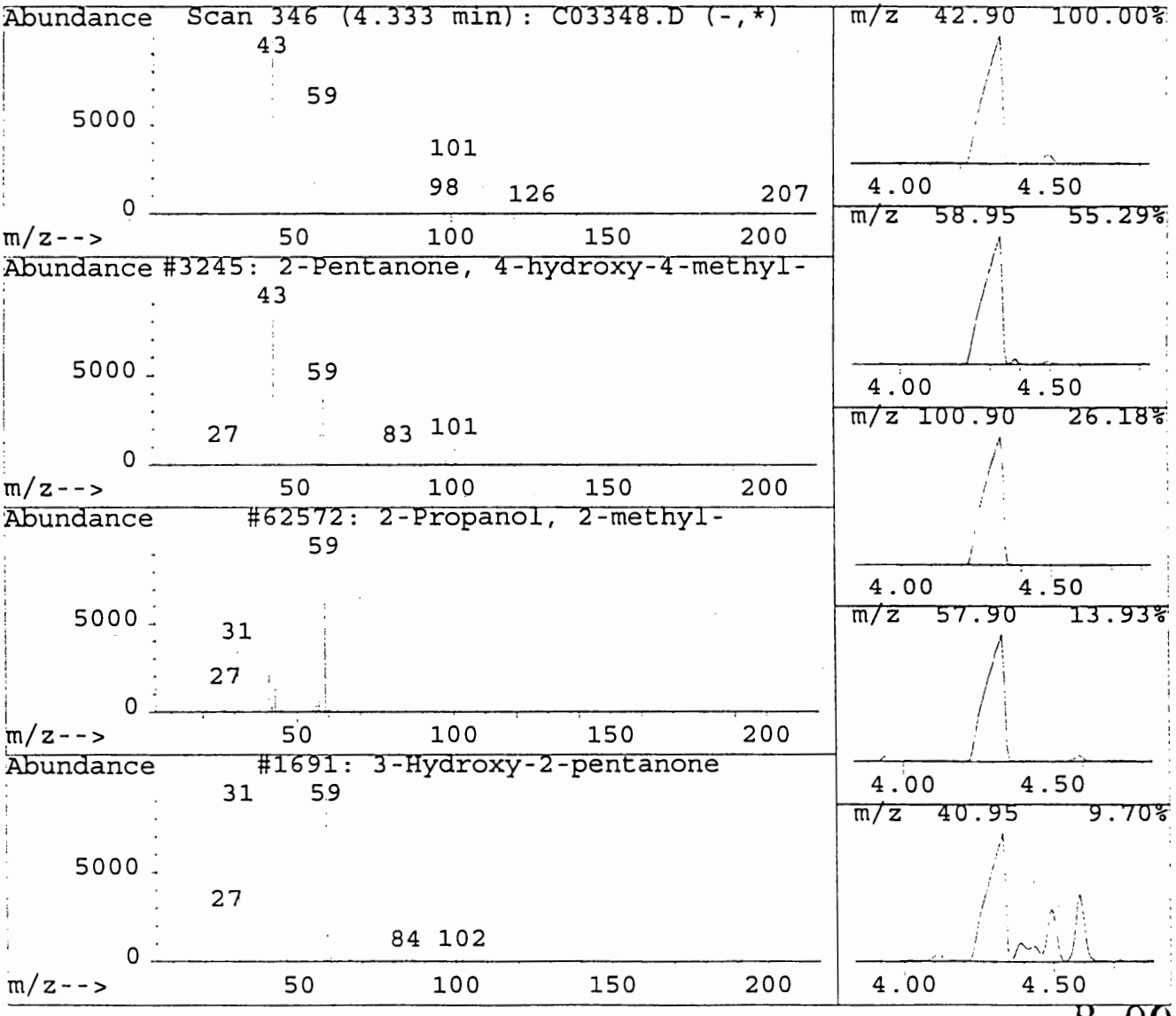
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.33	564.12 ng	19953088	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	17
3	3-Hydroxy-2-pentanone	102	C5H10O2	003142-66-3	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9



B 0030

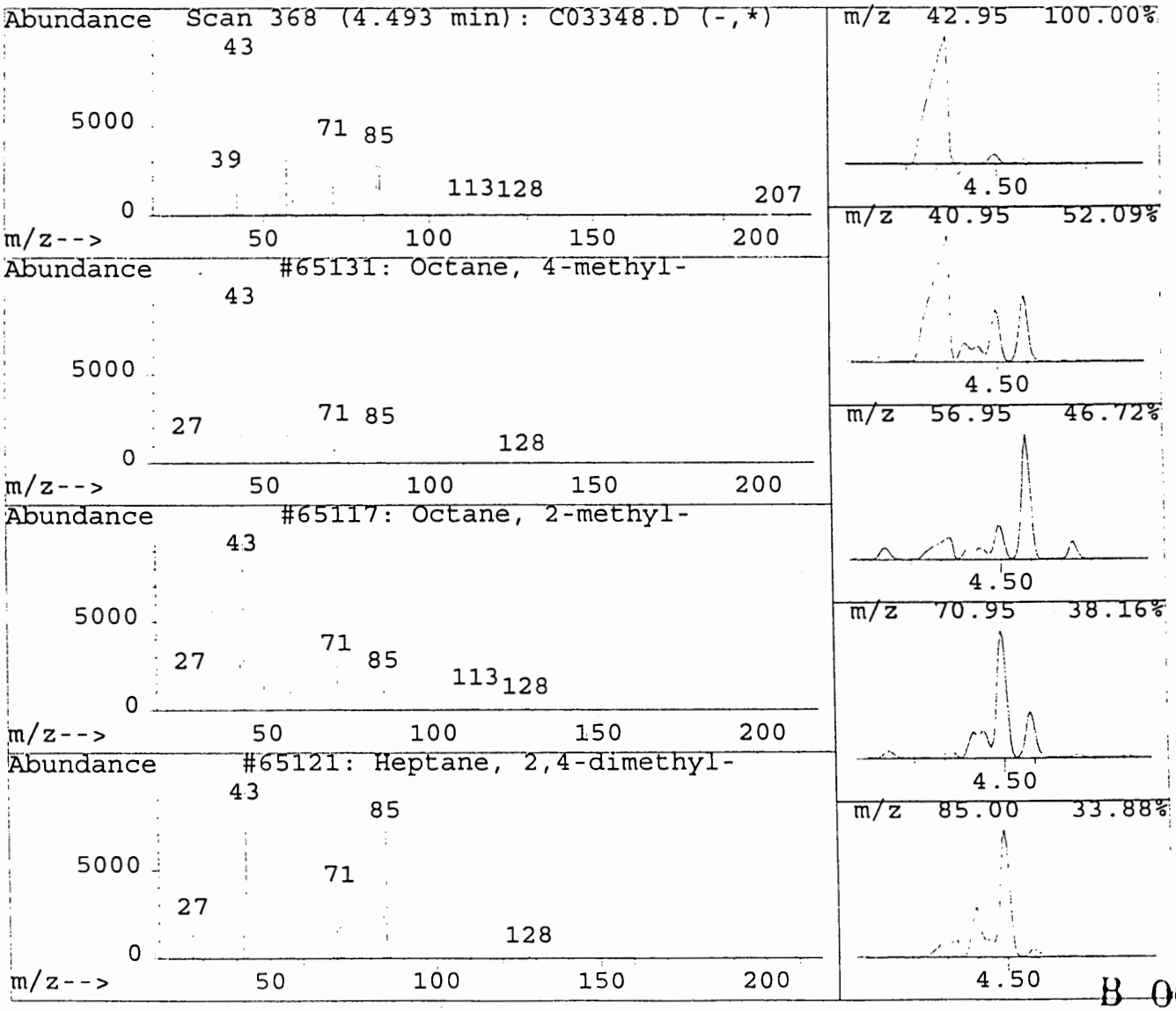
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.49	40.21 ng	1422125	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	59
2	Octane, 2-methyl-	128	C9H20	003221-61-2	53
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	52
4	Dodecane, 5-methyl-	184	C13H28	017453-93-9	47
5	Octane	114	C8H18	000111-65-9	47



B 0031

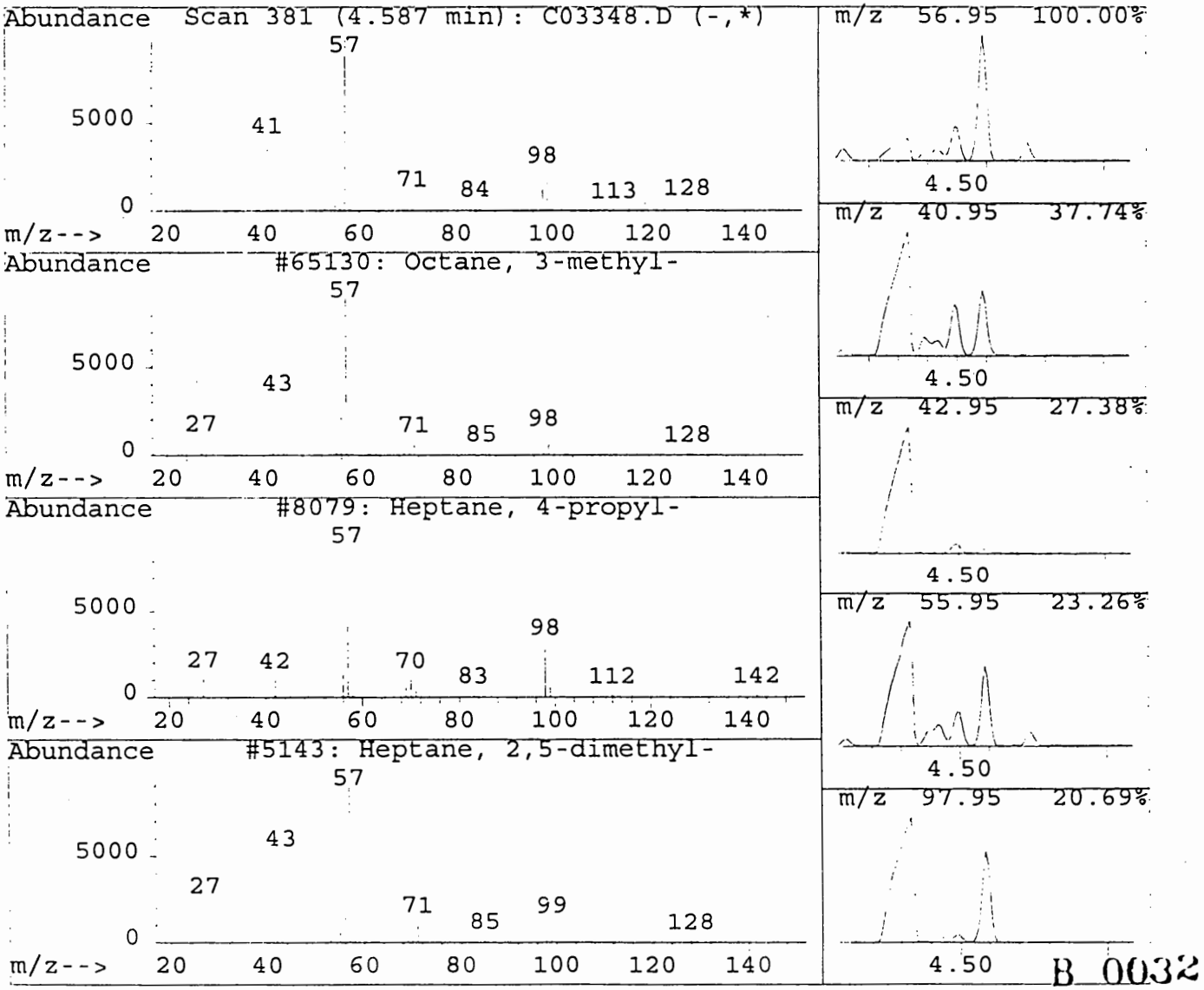
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.59	46.51 ng	1645235	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	64
2	Heptane, 4-propyl-	142	C10H22	003178-29-8	59
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	58
4	Heptane, 4-(1-methylethyl)-	142	C10H22	052896-87-4	50
5	Heptane, 3-ethyl-	128	C9H20	015869-80-4	50



B 0032

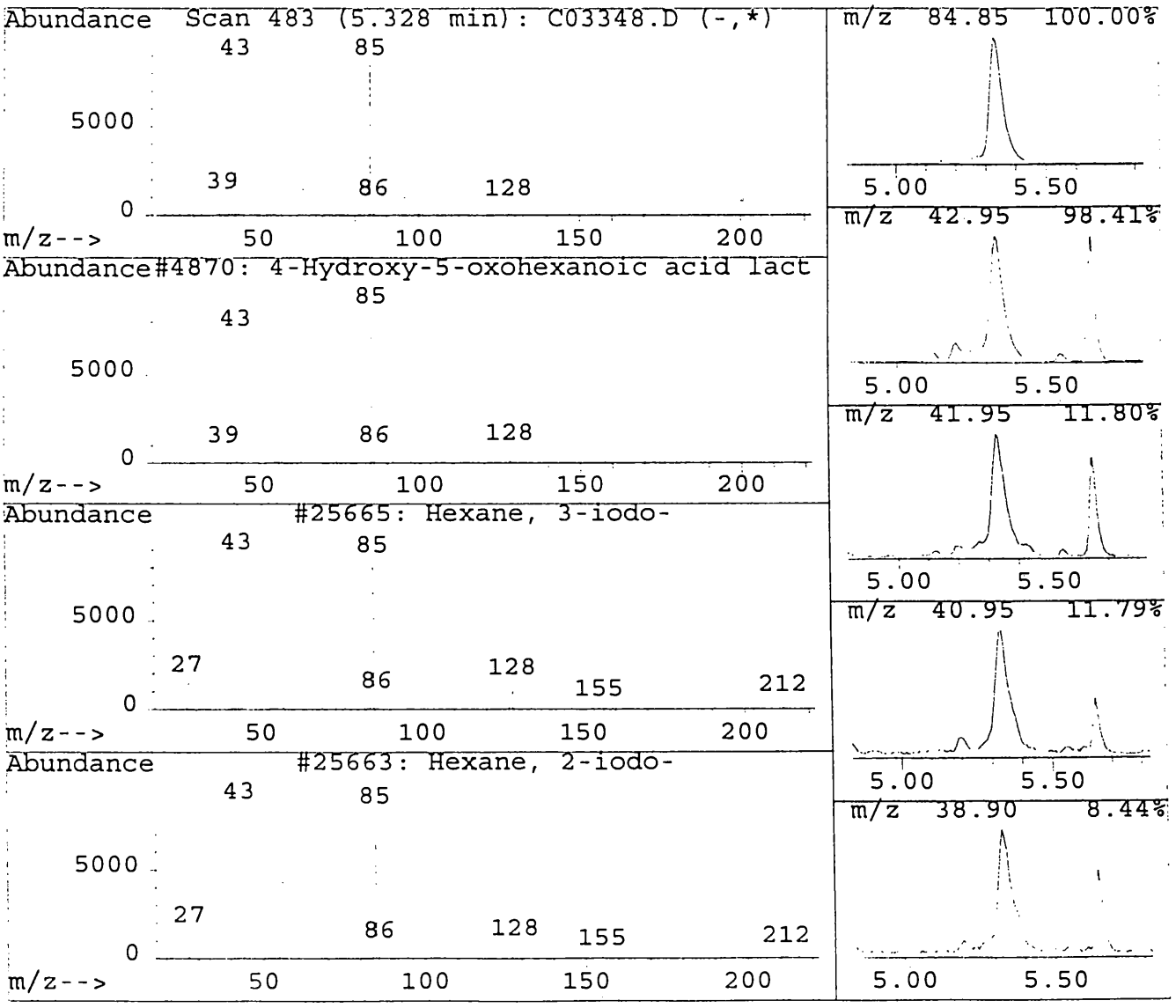
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
5.33	40.29 ng	1425200	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Hydroxy-5-oxohexanoic acid lacton	128	C6H8O3	000000-00-0	56
2	Hexane, 3-iodo-	212	C6H13I	031294-91-4	40
3	Hexane, 2-iodo-	212	C6H13I	018589-27-0	40
4	Butane, 2-iodo-2,3-dimethyl-	212	C6H13I	000594-59-2	40
5	trans-4-Methoxy-3-buten-2-one	100	C5H8O2	051731-17-0	38



B 0033

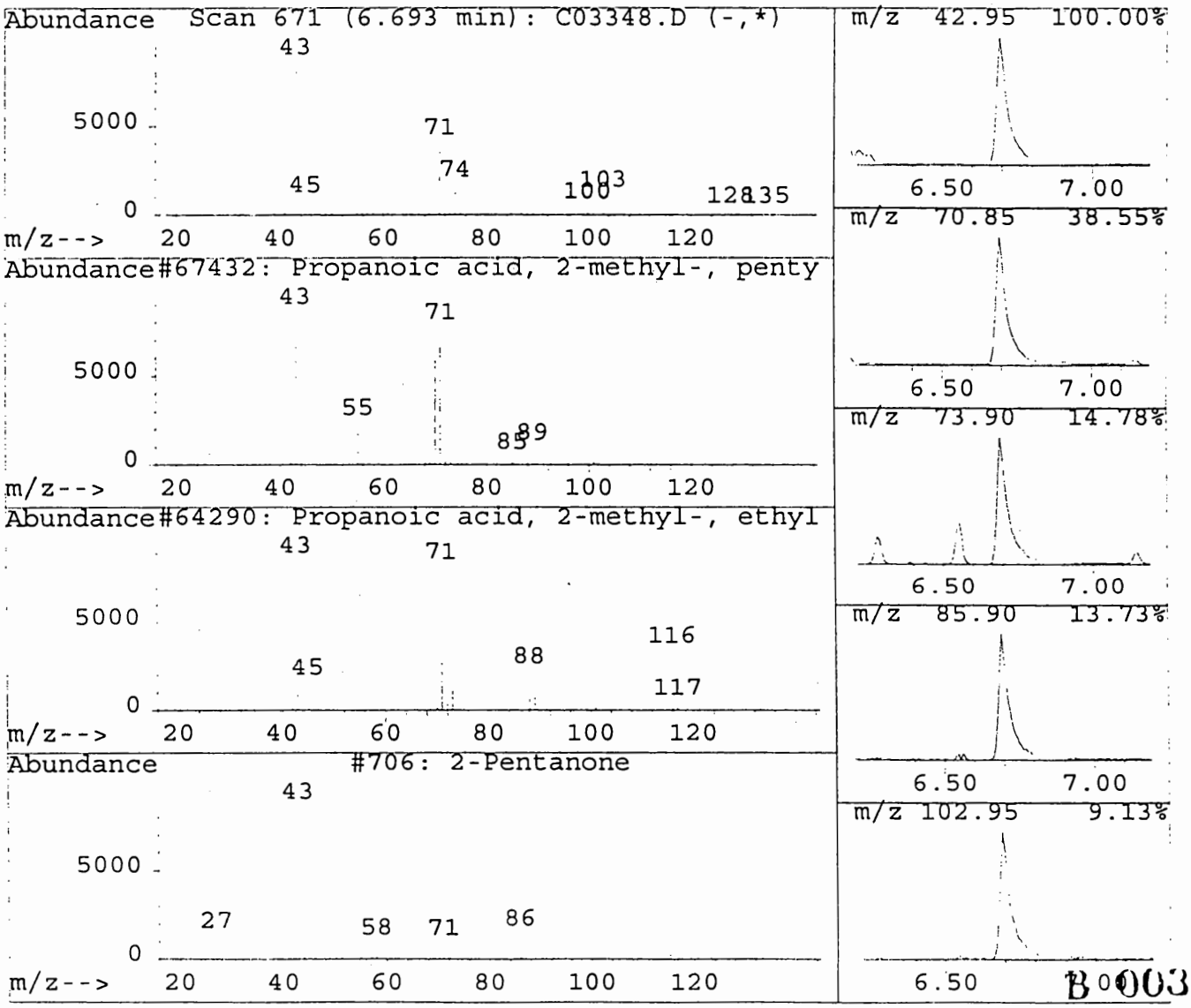
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\C03348.D Vial: 13
Acq On : 18 Feb 97 21:24 Operator: ANNMARIE
Sample : 9702028 Inst : 5972 - GC
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
6.69	19.34 ng	683907	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	37
2	Propanoic acid, 2-methyl-, ethyl es	116	C6H12O2	000097-62-1	23
3	2-Pentanone	86	C5H10O	000107-87-9	22
4	Butanal, 2-ethyl-	100	C6H12O	000097-96-1	9
5	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9



B0034

Library Search Compound Report

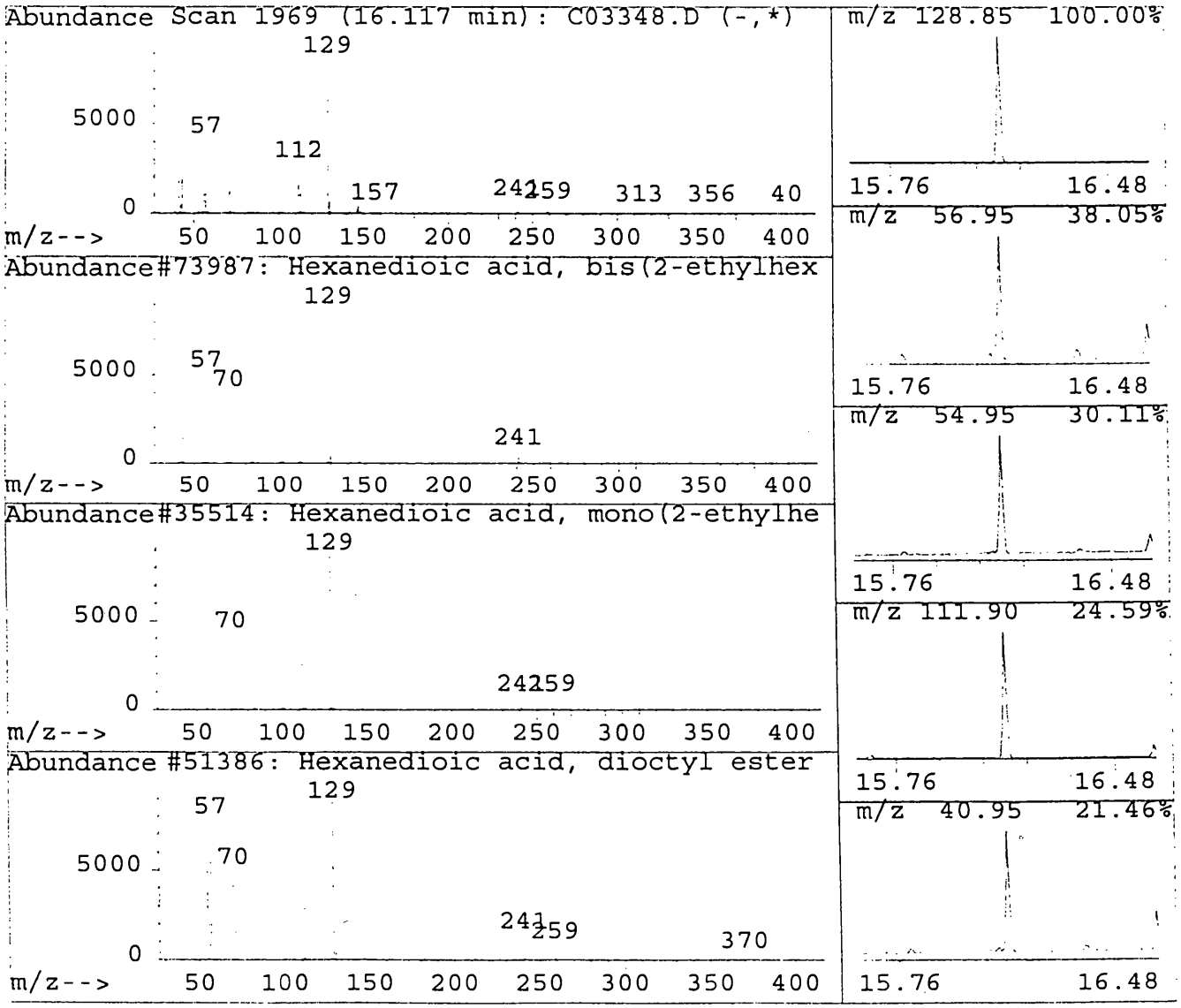
Data File : C:\HPCHEM\1\DATA\C03348.D
Acq On : 18 Feb 97 21:24
Sample : 9702028
Misc : B60214 H5972 5 UL BN392 => 0.5 ML

Vial: 13
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
16.12	53.67 ng	1307378	Chrysene-d12	16.68

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, bis(2-ethylhexyl)	370	C22H42O4	000103-23-1	80
2	Hexanedioic acid, mono(2-ethylhexyl	258	C14H26O4	004337-65-9	64
3	Hexanedioic acid, dioctyl ester	370	C22H42O4	000123-79-5	43
4	Hexanedioic acid, dihexyl ester	314	C18H34O4	000110-33-8	42
5	Hexanedioic acid, bis(1-methylpropy	258	C14H26O4	038447-22-2	38



B 0035

III. STANDARD DATA PACKAGE FOR SEMIVOLATILES

A. INITIAL CALIBRATION FORM
B. STANDARD GC/MS CHROMATOGRAMS
C. DATA SYSTEM REPORT
D. CONTINUING CALIBRATION FORM
E. STANDARD GC/MS CHROMATOGRAMS
F. DATA SYSTEM REPORT
G. GPC CHROMATOGRAMS (IF APPLICABLE)

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Instrument ID: H5972 Calibration Date(s): 02/10/97 02/10/97

Calibration Times: 12:18 14:59

LAB FILE ID: RRF20 = C03243.D RRF50 = C03244.D

RRF80 = C03245.D RRF120 = C03246.D RRF160 = C03247.D

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.033	1.370	1.386	1.368	1.372	1.506	19.6	*
bis(2-Chloroethyl)ether	*	1.812	1.188	1.212	1.201	1.217	1.326	20.5	*
2-Chlorophenol	*	1.825	1.235	1.298	1.296	1.320	1.395	17.4	*
1,3-Dichlorobenzene	*	2.103	1.427	1.464	1.472	1.489	1.591	18.0	*
1,4-Dichlorobenzene	*	2.149	1.460	1.494	1.510	1.530	1.629	17.9	*
1,2-Dichlorobenzene	*	2.038	1.362	1.405	1.392	1.413	1.522	19.0	*
2-Methylphenol	*	1.581	1.044	1.090	1.091	1.109	1.183	18.9	*
2,2'-oxybis(1-Chloropropane)		2.066	1.305	1.283	1.249	1.258	1.432	24.8	
4-Methylphenol	*	1.632	1.098	1.165	1.165	1.177	1.247	17.4	*
N-Nitroso-di-n-propylamine	*	1.041	0.693	0.722	0.712	0.721	0.778	19.0	*
Hexachloroethane	*	0.791	0.529	0.553	0.563	0.577	0.603	17.7	*
Nitrobenzene	*	0.401	0.276	0.283	0.293	0.297	0.310	16.6	*
Isophorone	*	0.816	0.557	0.570	0.591	0.611	0.629	16.9	*
2-Nitrophenol	*	0.221	0.162	0.180	0.195	0.204	0.192	11.7	*
2,4-Dimethylphenol	*	0.416	0.259	0.292	0.306	0.315	0.318	18.5	*
bis(2-Chloroethoxy)methane	*	0.521	0.344	0.355	0.364	0.373	0.391	18.7	*
2,4-Dichlorophenol	*	0.367	0.257	0.268	0.281	0.291	0.293	14.8	*
1,2,4-Trichlorobenzene	*	0.398	0.275	0.283	0.294	0.301	0.310	16.1	*
Naphthalene	*	1.456	0.996	1.013	1.043	1.053	1.112	17.4	*
4-Chloroaniline		0.603	0.187	0.200	0.267	0.308	0.313	54.1	
Hexachlorobutadiene		0.185	0.132	0.137	0.144	0.148	0.149	14.2	
4-Chloro-3-methylphenol	*	0.365	0.254	0.271	0.281	0.293	0.293	14.6	*
2-Methylnaphthalene	*	0.957	0.638	0.663	0.684	0.695	0.727	17.9	*
Hexachlorocyclopentadiene		0.352	0.253	0.277	0.295	0.316	0.298	12.7	
2,4,6-Trichlorophenol	*	0.374	0.276	0.279	0.293	0.304	0.305	13.1	*
2,4,5-Trichlorophenol	*		0.317	0.332	0.353	0.369	0.343	6.6	*
2-Chloronaphthalene	*	1.564	1.085	1.100	1.134	1.156	1.208	16.6	*
2-Nitroaniline			0.221	0.239	0.259	0.266	0.246	8.2	
Dimethylphthalate		1.858	1.261	1.315	1.388	1.427	1.450	16.4	
Acenaphthylene	*	2.546	1.730	1.753	1.794	1.824	1.929	18.0	*
2,6-Dinitrotoluene	*	0.318	0.246	0.271	0.295	0.309	0.288	10.2	*
3-Nitroaniline			0.312	0.334	0.354	0.379	0.345	8.2	
Acenaphthene	*	1.653	1.117	1.136	1.165	1.200	1.254	18.0	*
2,4-Dinitrophenol			0.072	0.096	0.125	0.147	0.110	29.7	
4-Nitrophenol			0.155	0.171	0.185	0.195	0.176	9.9	
Dibenzofuran	*	2.231	1.531	1.578	1.629	1.676	1.729	16.5	*
2,4-Dinitrotoluene	*	0.413	0.330	0.372	0.420	0.444	0.396	11.4	*
Diethylphthalate		1.923	1.329	1.383	1.470	1.498	1.521	15.4	
Fluorene	*	1.669	1.129	1.128	1.165	1.157	1.250	18.8	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

B 0037

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Instrument ID: H5972 Calibration Date(s): 02/10/97 02/10/97

Calibration Times: 12:18 14:59

LAB FILE ID: RRF20 = C03243.D RRF50 = C03244.D

RRF80 = C03245.D RRF120 = C03246.D RRF160 = C03247.D

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD	
4-Chlorophenyl-phenylether	*	0.701	0.474	0.487	0.498	0.496	0.531	18.0	*
4-Nitroaniline			0.298	0.325	0.356	0.359	0.335	8.5	
4,6-Dinitro-2-methylphenol			0.080	0.102	0.121	0.135	0.110	22.0	
N-Nitrosodiphenylamine		0.877	0.371	0.379	0.518	0.575	0.544	37.9	
4-Bromophenyl-phenylether	*	0.321	0.222	0.228	0.236	0.243	0.250	16.2	*
Hexachlorobenzene	*	0.409	0.278	0.290	0.300	0.311	0.318	16.6	*
Pentachlorophenol	*		0.160	0.176	0.184	0.193	0.178	7.9	*
Phenanthrene	*	1.706	1.152	1.143	1.178	1.194	1.274	19.0	*
Anthracene	*	1.582	1.022	1.045	1.090	1.094	1.167	20.1	*
Carbazole		1.628	1.096	1.103	1.134	1.117	1.216	19.0	
Di-n-butylphthalate		2.443	1.677	1.737	1.787	1.793	1.887	16.6	
Fluoranthene	*	1.666	1.121	1.140	1.176	1.153	1.251	18.6	*
Pyrene	*	1.878	1.205	1.268	1.301	1.344	1.399	19.5	*
Butylbenzylphthalate		1.147	0.752	0.798	0.839	0.856	0.878	17.7	
Benzo[a]anthracene	*	1.605	1.050	1.080	1.113	1.141	1.198	19.2	*
3,3'-Dichlorobenzidine		0.612	0.317	0.362	0.397	0.409	0.419	27.0	
Chrysene	*	1.116	0.753	0.767	0.797	0.800	0.847	18.0	*
bis(2-Ethylhexyl)phthalate		1.653	1.098	1.132	1.185	1.172	1.248	18.4	
Di-n-octylphthalate		2.213	1.513	1.638	1.720	1.695	1.756	15.3	
Benzo[b]fluoranthene	*	1.456	1.051	0.999	1.016	1.224	1.149	16.8	*
Benzo[k]fluoranthene	*	1.188	0.785	0.895	0.942	0.774	0.917	18.3	*
Benzo[a]pyrene	*	1.339	0.871	0.914	0.949	0.986	1.012	18.5	*
Indeno[1,2,3-cd]pyrene	*	1.561	1.112	1.114	1.156	1.150	1.219	15.8	*
Dibenz[a,h]anthracene	*	1.042	0.737	0.751	0.778	0.787	0.819	15.4	*
Benzo[g,h,i]perylene	*	1.037	0.728	0.715	0.744	0.748	0.794	17.2	*
2-Fluorophenol	*	1.693	1.152	1.194	1.209	1.241	1.298	17.2	*
Phenol-d5	*	2.127	1.427	1.463	1.449	1.476	1.588	19.0	*
2-Chlorophenol-d4	*	1.980	1.331	1.392	1.394	1.430	1.505	17.8	*
1,2-Dichlorobenzene-d4	*	1.302	0.875	0.903	0.899	0.915	0.979	18.5	*
Nitrobenzene-d5	*	0.389	0.278	0.283	0.302	0.311	0.313	14.3	*
2-Fluorobiphenyl	*	1.780	1.228	1.242	1.291	1.319	1.372	16.8	*
2,4,6-Tribromophenol		0.273	0.211	0.231	0.247	0.261	0.245	9.9	
Terphenyl-d14	*	1.421	0.899	0.959	0.987	1.020	1.057	19.7	*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

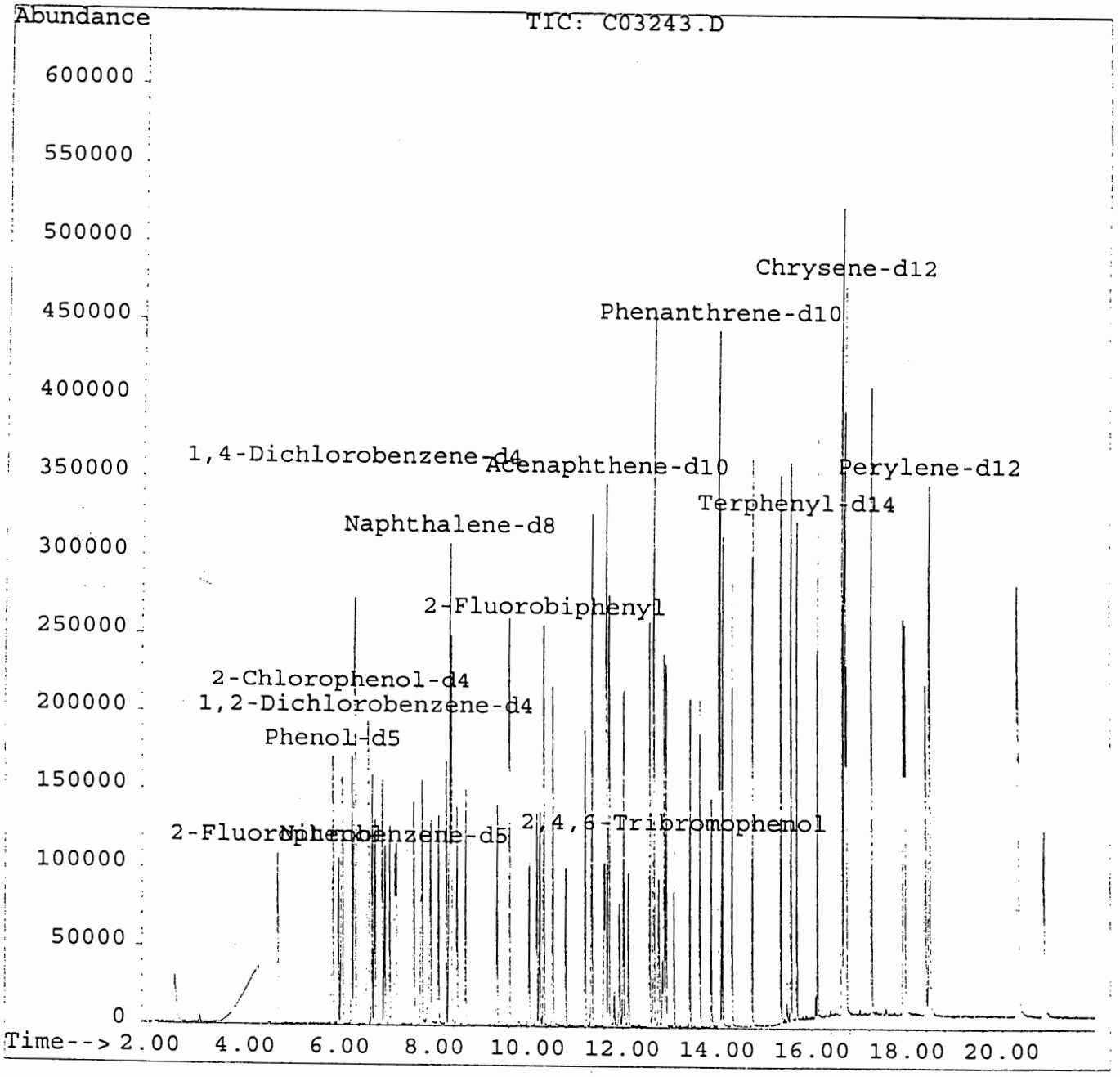
B 0038

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03243.D
Acq On : 10 Feb 97 12:18 pm
Sample : SSTD020
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:27 1997

Vial: 2
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0039

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03243.D Vial: 2
Acq On : 10 Feb 97 12:18 Operator: ANNMARIE
Sample : SSTD020 Inst : 5972 - GC
Misc : H5972 10 UL BN392 => 1 ML Multiplr: 1.00
Quant Time: Feb 12 11:27 1997

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.29	152	68396	40.00	ng		0.00
17) Naphthalene-d8	8.31	136	256159	40.00	ng		0.00
31) Acenaphthene-d10	11.65	164	139374	40.00	ng		0.00
52) Phenanthrene-d10	14.03	188	185289	40.00	ng		0.00
63) Chrysene-d12	16.70	240	167702	40.00	ng		0.00
71) Perylene-d12	18.47	264	215352	40.00	ng		0.00
System Monitoring Compounds							**%Recovery**
2) 2-Fluorophenol	4.68	112	57883	29.43	ng		19.62%
3) Phenol-d5	5.83	99	72724	29.95	ng		19.97%
6) 2-Chlorophenol-d4	6.03	132	67710	29.81	ng		19.87%
10) 1,2-Dichlorobenzene-d4	6.56	152	44540	29.85	ng		29.85%
18) Nitrobenzene-d5	7.16	82	49777	27.92	ng		27.92%
35) 2-Fluorobiphenyl	10.33	172	124037	29.35	ng		29.35%
51) 2,4,6-Tribromophenol	13.09	330	18998	25.84	ng		17.23%
65) Terphenyl-d14	15.68	244	119139	31.61	ng		31.61%
Target Compounds							**Qvalue**
4) Phenol	5.84	94	69527	29.78	ng		92
5) bis(2-Chloroethyl)ether	5.97	93	61950	30.57	ng		90
7) 2-Chlorophenol	6.05	128	62396	29.61	ng		96
8) 1,3-Dichlorobenzene	6.24	146	71912	29.55	ng		99
9) 1,4-Dichlorobenzene	6.32	146	73490	29.51	ng		100
11) 1,2-Dichlorobenzene	6.58	146	69685	29.98	ng		97
12) 2-Methylphenol	6.67	108	54057	30.35	ng		99
13) 2,2'-oxybis(1-Chloropropan	6.73	45	70665	31.73	ng	#	95
14) 4-Methylphenol	6.88	108	55804	29.71	ng		99
15) N-Nitroso-di-n-propylamine	6.94	70	35599	30.13	ng		88
16) Hexachloroethane	7.04	117	27054	29.98	ng		91
19) Nitrobenzene	7.18	77	51295	29.02	ng		93
20) Isophorone	7.55	82	104487	29.30	ng		97
21) 2-Nitrophenol	7.70	139	28266	27.23	ng		93
22) 2,4-Dimethylphenol	7.73	107	53240	31.89	ng		95
23) bis(2-Chloroethoxy)methane	7.91	93	66744	30.25	ng	#	94
24) 2,4-Dichlorophenol	8.08	162	46982	28.54	ng		99
25) 1,2,4-Trichlorobenzene	8.24	180	50907	28.92	ng		95
26) Naphthalene	8.34	128	186457	29.20	ng	#	95
27) 4-Chloroaniline	8.47	127	77170	64.36	ng		99
28) Hexachlorobutadiene	8.65	225	23732	28.11	ng		97
29) 4-Chloro-3-methylphenol	9.34	107	46695	28.47	ng		96
30) 2-Methylnaphthalene	9.60	142	122510	29.97	ng		99
32) Hexachlorocyclopentadiene	10.03	237	24497	27.84	ng		98
33) 2,4,6-Trichlorophenol	10.19	196	26087	27.13	ng		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03243.D
Acq On : 10 Feb 97 12:18
Sample : SSTD020
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:27 1997

Vial: 2
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	2-Chloronaphthalene	10.52	162	108957	28.83	ng		97
38)	Dimethylphthalate	11.21	163	129498	29.44	ng		100
39)	Acenaphthylene	11.34	152	177403	29.42	ng		99
40)	2,6-Dinitrotoluene	11.35	165	22158	25.86	ng		93
42)	Acenaphthene	11.71	153	115182	29.61	ng		99
45)	Dibenzofuran	12.02	168	155455	29.16	ng		96
46)	2,4-Dinitrotoluene	12.13	165	28756	25.02	ng		94
47)	Diethylphthalate	12.58	149	133987	28.93	ng		98
48)	Fluorene	12.66	166	116314	29.62	ng		99
49)	4-Chlorophenyl-phenylether	12.67	204	48836	29.57	ng		99
54)	N-Nitrosodiphenylamine	12.88	169	81264	47.32	ng		97
55)	4-Bromophenyl-phenylether	13.43	248	29714	28.92	ng		91
56)	Hexachlorobenzene	13.63	284	37910	29.41	ng	#	86
58)	Phenanthrene	14.05	178	158066	29.74	ng		100
59)	Anthracene	14.11	178	146604	30.95	ng		99
60)	Carbazole	14.31	167	150827	29.55	ng		97
61)	Di-n-butylphthalate	14.75	149	226363	29.32	ng		99
62)	Fluoranthene	15.34	202	154321	29.72	ng		97
64)	Pyrene	15.55	202	157469	31.18	ng		96
66)	Butylbenzylphthalate	16.12	149	96185	30.34	ng		94
67)	Benzo[a]anthracene	16.68	228	134597	30.56	ng		99
68)	3,3'-Dichlorobenzidine	16.64	252	51280	38.57	ng		96
69)	Chrysene	16.73	228	93603	29.87	ng		99
70)	bis(2-Ethylhexyl)phthalate	16.63	149	138642	29.96	ng		98
72)	Di-n-octylphthalate	17.25	149	238331	29.34	ng		100
73)	Benzo[b]fluoranthene	17.93	252	156800m	27.70	ng		99
74)	Benzo[k]fluoranthene	17.96	252	127917m	29.86	ng		94
75)	Benzo[a]pyrene	18.39	252	144157	30.74	ng		96
76)	Indeno[1,2,3-cd]pyrene	20.32	276	168108	28.16	ng		86
77)	Dibenz[a,h]anthracene	20.32	278	112240	28.05	ng		95
78)	Benzo[g,h,i]perylene	20.89	276	111677	28.82	ng		93

AA 2/10/97

B-0041

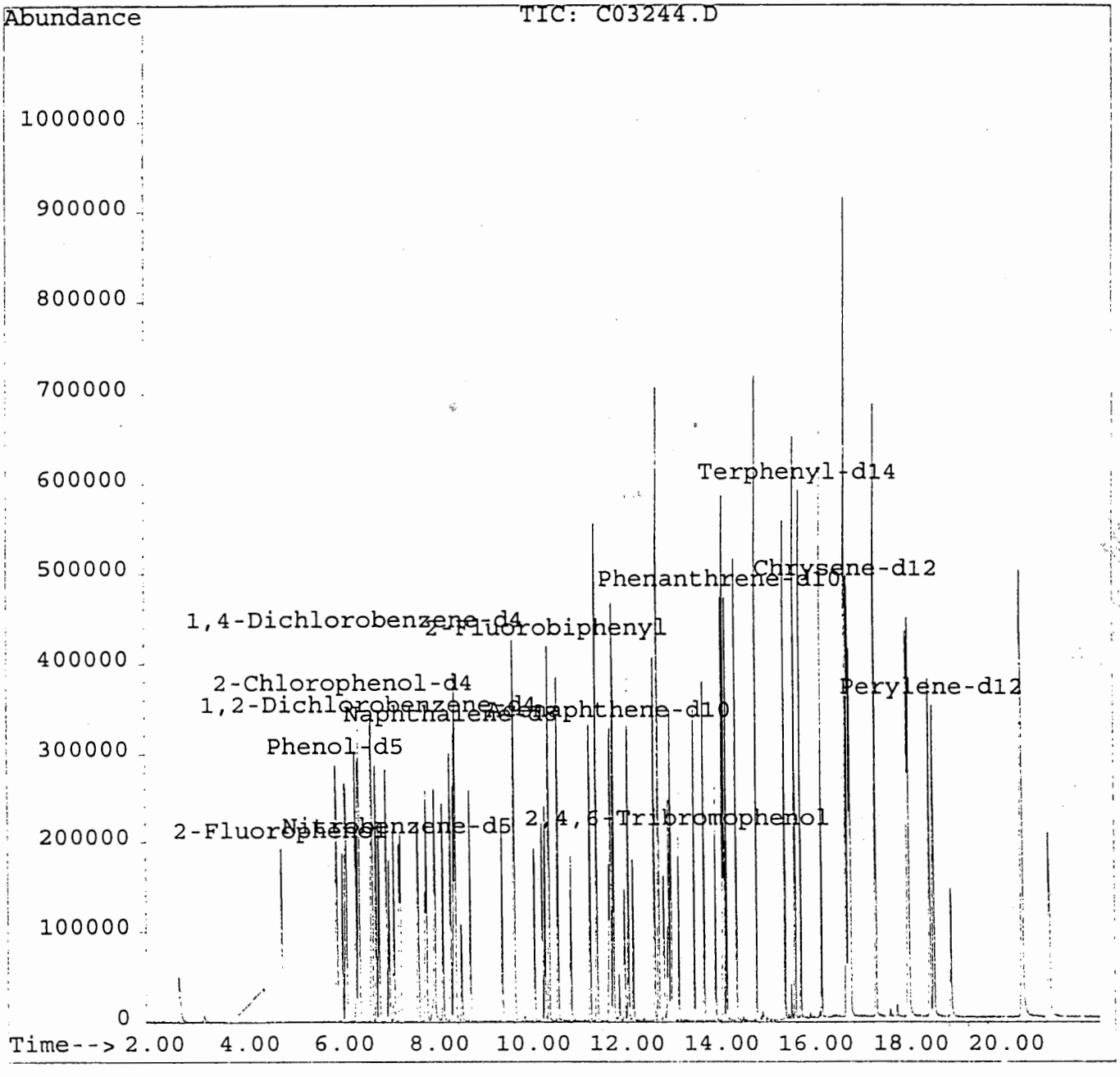
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03244.D
Acq On : 10 Feb 97 1:25 pm
Sample : SSTD050
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:32 1997

Vial: 3
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0042

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03244.D Vial: 3
Acq On : 10 Feb 97 13:25 Operator: ANNMARIE
Sample : SSTD050 Inst : 5972 - GC
Misc : H5972 10 UL BN392 => 1 ML Multiplr: 1.00
Quant Time: Feb 12 11:32 1997

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:27:50 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	70249	40.00	ng		0.00
17) Naphthalene-d8	8.31	136	255511	40.00	ng		0.00
31) Acenaphthene-d10	11.65	164	138188	40.00	ng		0.00
52) Phenanthrene-d10	14.03	188	188303	40.00	ng		0.00
63) Chrysene-d12	16.70	240	177649	40.00	ng		0.00
71) Perylene-d12	18.48	264	228527	40.00	ng		0.00
System Monitoring Compounds							**%Recovery**
2) 2-Fluorophenol	4.68	112	101178	50.09	ng		33.39%
3) Phenol-d5	5.84	99	125274	50.24	ng		33.49%
6) 2-Chlorophenol-d4	6.03	132	116914	50.12	ng		33.41%
10) 1,2-Dichlorobenzene-d4	6.57	152	76804	50.12	ng		50.12%
18) Nitrobenzene-d5	7.16	82	88852	49.96	ng		49.96%
35) 2-Fluorobiphenyl	10.34	172	212169	50.63	ng		50.63%
51) 2,4,6-Tribromophenol	13.10	330	36498	50.08	ng		33.39%
65) Terphenyl-d14	15.69	244	199604	50.00	ng		50.00%
Target Compounds							**Qvalue**
4) Phenol	5.85	94	120276	50.15	ng		92
5) bis(2-Chloroethyl)ether	5.97	93	104331	50.12	ng		91
7) 2-Chlorophenol	6.05	128	108480	50.12	ng		95
8) 1,3-Dichlorobenzene	6.24	146	125344	50.16	ng		99
9) 1,4-Dichlorobenzene	6.32	146	128195	50.12	ng		98
11) 1,2-Dichlorobenzene	6.59	146	119631	50.12	ng		100
12) 2-Methylphenol	6.67	108	91687	50.12	ng		99
13) 2,2'-oxybis(1-Chloropropan	6.73	45	114631	50.12	ng	#	94
14) 4-Methylphenol	6.88	108	96382	49.95	ng		98
15) N-Nitroso-di-n-propylamine	6.95	70	60810	50.12	ng	#	85
16) Hexachloroethane	7.05	117	46457	50.12	ng		95
19) Nitrobenzene	7.19	77	88089	49.96	ng		95
20) Isophorone	7.56	82	177725	49.96	ng		97
21) 2-Nitrophenol	7.71	139	51732	49.96	ng		96
22) 2,4-Dimethylphenol	7.73	107	82756	49.70	ng		95
23) bis(2-Chloroethoxy)methane	7.91	93	109941	49.96	ng		95
24) 2,4-Dichlorophenol	8.08	162	82032	49.96	ng		98
25) 1,2,4-Trichlorobenzene	8.24	180	87720	49.96	ng		96
26) Naphthalene	8.35	128	318217	49.96	ng	#	86
27) 4-Chloroaniline	8.47	127	59749	49.96	ng		99
28) Hexachlorobutadiene	8.66	225	42079	49.96	ng		97
29) 4-Chloro-3-methylphenol	9.34	107	80973	49.49	ng		98
30) 2-Methylnaphthalene	9.60	142	203684	49.96	ng		99
32) Hexachlorocyclopentadiene	10.04	237	43623	50.00	ng		97
33) 2,4,6-Trichlorophenol	10.20	196	47662	50.00	ng		98

(#) = qualifier out of range (m) = manual integration

B 0043

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03244.D
Acq On : 10 Feb 97 13:25
Sample : SSTD050
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:32 1997

Vial: 3
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:27:50 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.25	196	54830	50.00	ng		97
36)	2-Chloronaphthalene	10.53	162	187383	50.00	ng		98
37)	2-Nitroaniline	10.81	65	38213	49.99	ng	#	81
38)	Dimethylphthalate	11.21	163	217879	49.97	ng		100
39)	Acenaphthylene	11.35	152	298904	50.00	ng		100
40)	2,6-Dinitrotoluene	11.36	165	42474	50.00	ng		97
41)	3-Nitroaniline	11.62	138	53910	50.00	ng	#	96
42)	Acenaphthene	11.71	153	192862	50.00	ng		99
43)	2,4-Dinitrophenol	11.84	184	12474	50.00	ng		90
44)	4-Nitrophenol	11.95	109	26695	49.17	ng		93
45)	Dibenzofuran	12.03	168	264417	50.03	ng		96
46)	2,4-Dinitrotoluene	12.13	165	56994	50.01	ng		93
47)	Diethylphthalate	12.58	149	229620	50.00	ng		98
48)	Fluorene	12.66	166	195050	50.11	ng		99
49)	4-Chlorophenyl-phenylether	12.67	204	81861	50.00	ng		100
50)	4-Nitroaniline	12.78	138	51503	50.32	ng		96
53)	4,6-Dinitro-2-methylphenol	12.85	198	18738	50.00	ng		100
54)	N-Nitrosodiphenylamine	12.88	169	87263	50.00	ng		100
55)	4-Bromophenyl-phenylether	13.43	248	52210	50.00	ng		90
56)	Hexachlorobenzene	13.64	284	65490	50.00	ng	#	85
57)	Pentachlorophenol	13.88	266	37556	50.00	ng		97
58)	Phenanthrene	14.06	178	271047	50.18	ng		100
59)	Anthracene	14.11	178	240659	50.00	ng		100
60)	Carbazole	14.32	167	257996	49.74	ng		98
61)	Di-n-butylphthalate	14.75	149	394789	50.32	ng		99
62)	Fluoranthene	15.35	202	263845	50.00	ng		98
64)	Pyrene	15.56	202	267639	50.03	ng		98
66)	Butylbenzylphthalate	16.12	149	166943	49.70	ng		93
67)	Benzo[a]anthracene	16.69	228	233245m	50.00	ng		99
68)	3,3'-Dichlorobenzidine	16.64	252	70355	49.96	ng		98
69)	Chrysene	16.73	228	167141	50.35	ng		99
70)	bis(2-Ethylhexyl)phthalate	16.64	149	243788	49.74	ng		99
72)	Di-n-octylphthalate	17.25	149	432157	50.13	ng		100
73)	Benzo[b]fluoranthene	17.94	252	300351m	50.00	ng		82
74)	Benzo[k]fluoranthene	17.97	252	224142m	49.30	ng		77
75)	Benzo[a]pyrene	18.39	252	248855	50.00	ng		96
76)	Indeno[1,2,3-cd]pyrene	20.34	276	317658	50.15	ng	#	84
77)	Dibenz[a,h]anthracene	20.34	278	210621	49.60	ng		94
78)	Benzo[g,h,i]perylene	20.91	276	207827	50.54	ng		92

AD 2/10/97

B-0041

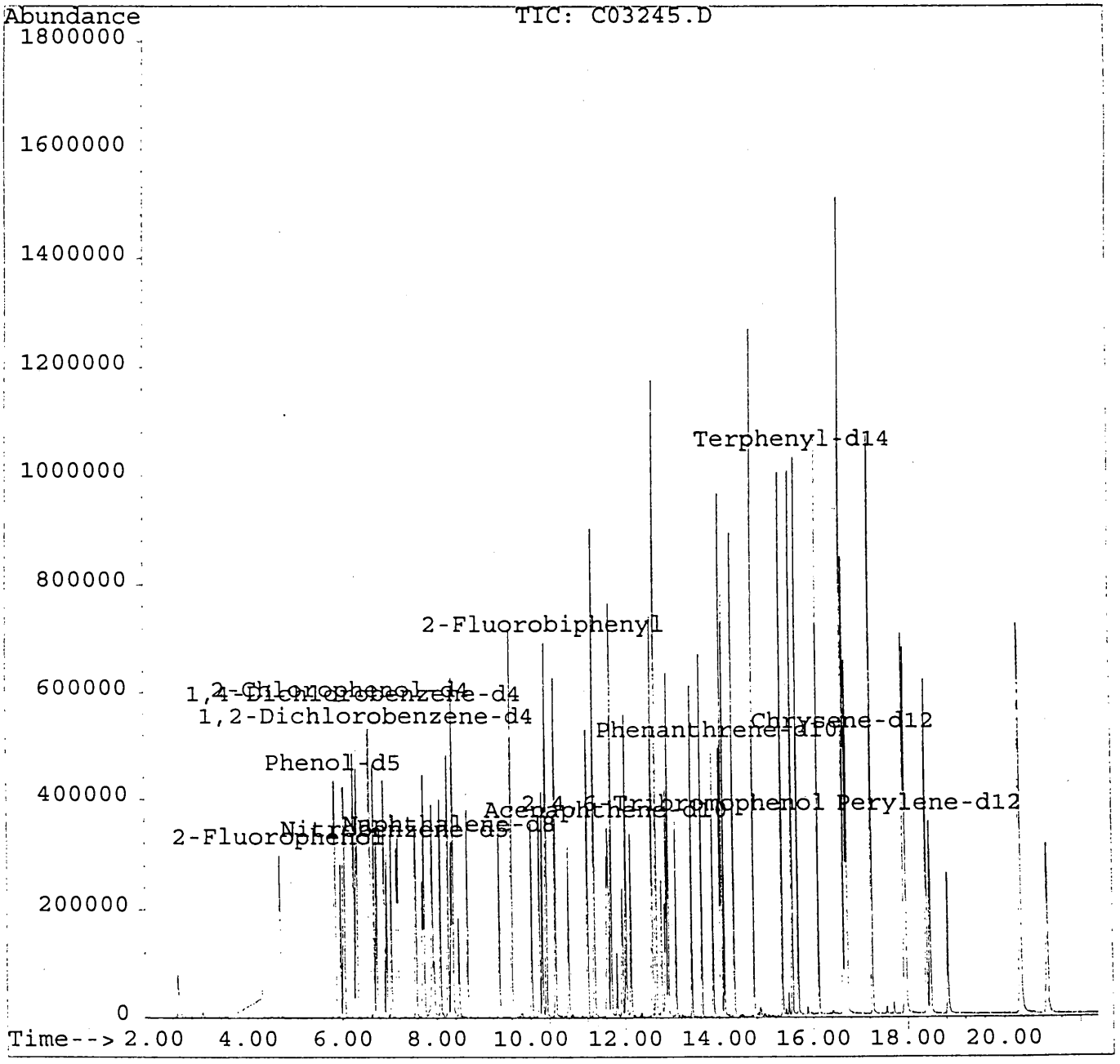
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03245.D
Acq On : 10 Feb 97 1:56 pm
Sample : SSTD080
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:38 1997

Vial: 4
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0045

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03245.D
Acq On : 10 Feb 97 13:56
Sample : SSTD080
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:38 1997

Vial: 4
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.29	152	68881	40.00	ng		0.00
17) Naphthalene-d8	8.31	136	256941	40.00	ng		0.00
31) Acenaphthene-d10	11.65	164	144931	40.00	ng		0.00
52) Phenanthrene-d10	14.03	188	201562	40.00	ng		0.00
63) Chrysene-d12	16.71	240	182313	40.00	ng		0.00
71) Perylene-d12	18.48	264	228109	40.00	ng		0.00
System Monitoring Compounds							**%Recovery**
2) 2-Fluorophenol	4.68	112	164467	83.03	ng		55.36%
3) Phenol-d5	5.84	99	201487	82.40	ng		54.94%
6) 2-Chlorophenol-d4	6.02	132	191755	83.83	ng		55.89%
10) 1,2-Dichlorobenzene-d4	6.56	152	124457	82.83	ng		82.83%
18) Nitrobenzene-d5	7.16	82	145654	81.44	ng		81.44%
35) 2-Fluorobiphenyl	10.34	172	360110	81.94	ng		81.94%
51) 2,4,6-Tribromophenol	13.10	330	67083	87.76	ng		58.51%
65) Terphenyl-d14	15.68	244	349801	85.38	ng		85.38%
Target Compounds							**Qvalue**
4) Phenol	5.85	94	190982	81.22	ng		94
5) bis(2-Chloroethyl)ether	5.97	93	166904	81.77	ng		90
7) 2-Chlorophenol	6.05	128	178875	84.28	ng		94
8) 1,3-Dichlorobenzene	6.24	146	201687	82.31	ng		99
9) 1,4-Dichlorobenzene	6.31	146	205826	82.07	ng		99
11) 1,2-Dichlorobenzene	6.58	146	193606	82.72	ng		99
12) 2-Methylphenol	6.67	108	150109	83.68	ng		100
13) 2,2'-oxybis(1-Chloropropan	6.73	45	176683	78.78	ng		94
14) 4-Methylphenol	6.88	108	160465	84.82	ng		99
15) N-Nitroso-di-n-propylamine	6.95	70	99420	83.57	ng	#	84
16) Hexachloroethane	7.04	117	76167	83.81	ng		95
19) Nitrobenzene	7.19	77	145296	81.94	ng		97
20) Isophorone	7.56	82	292888	81.88	ng		95
21) 2-Nitrophenol	7.70	139	92675	89.00	ng		97
22) 2,4-Dimethylphenol	7.74	107	150046	89.61	ng		96
23) bis(2-Chloroethoxy)methane	7.91	93	182500	82.47	ng		96
24) 2,4-Dichlorophenol	8.08	162	137868	83.50	ng		99
25) 1,2,4-Trichlorobenzene	8.24	180	145431	82.37	ng		97
26) Naphthalene	8.35	128	520644	81.29	ng	#	86
27) 4-Chloroaniline	8.47	127	102604	85.32	ng		100
28) Hexachlorobutadiene	8.65	225	70321	83.03	ng		98
29) 4-Chloro-3-methylphenol	9.34	107	139045	84.51	ng		97
30) 2-Methylnaphthalene	9.60	142	340816	83.13	ng		100
32) Hexachlorocyclopentadiene	10.03	237	80180	87.63	ng		98
33) 2,4,6-Trichlorophenol	10.19	196	80995	81.01	ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03245.D
Acq On : 10 Feb 97 13:56
Sample : SSTD080
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:38 1997

Vial: 4
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.25	196	96333	83.76	ng		99
36)	2-Chloronaphthalene	10.53	162	318752	81.10	ng		98
37)	2-Nitroaniline	10.80	65	69238	86.37	ng	#	80
38)	Dimethylphthalate	11.21	163	381277	83.37	ng		100
39)	Acenaphthylene	11.35	152	508052	81.03	ng		99
40)	2,6-Dinitrotoluene	11.36	165	78570	88.19	ng		98
41)	3-Nitroaniline	11.62	138	96811	85.61	ng		99
42)	Acenaphthene	11.71	153	329321	81.41	ng		99
43)	2,4-Dinitrophenol	11.83	184	27859	106.47	ng		95
44)	4-Nitrophenol	11.95	109	49448	86.84	ng		93
45)	Dibenzofuran	12.02	168	457326	82.51	ng		97
46)	2,4-Dinitrotoluene	12.13	165	107793	90.18	ng		92
47)	Diethylphthalate	12.58	149	400909	83.24	ng		98
48)	Fluorene	12.66	166	326939	80.08	ng		99
49)	4-Chlorophenyl-phenylether	12.67	204	141241	82.25	ng		100
50)	4-Nitroaniline	12.79	138	94277	87.83	ng		98
53)	4,6-Dinitro-2-methylphenol	12.86	198	41260	102.85	ng		100
54)	N-Nitrosodiphenylamine	12.89	169	152838	81.81	ng		99
55)	4-Bromophenyl-phenylether	13.42	248	91851	82.18	ng		91
56)	Hexachlorobenzene	13.64	284	116726	83.26	ng	#	85
57)	Pentachlorophenol	13.88	266	70969	88.27	ng		98
58)	Phenanthrene	14.06	178	460654	79.67	ng		100
59)	Anthracene	14.11	178	421370	81.79	ng		99
60)	Carbazole	14.32	167	444603	80.07	ng		98
61)	Di-n-butylphthalate	14.75	149	700299	83.38	ng		99
62)	Fluoranthene	15.35	202	459441	81.34	ng		99
64)	Pyrene	15.56	202	462218	84.20	ng		100
66)	Butylbenzylphthalate	16.12	149	290875	84.39	ng		93
67)	Benzo[a]anthracene	16.69	228	393660m	82.23	ng		98
68)	3,3'-Dichlorobenzidine	16.64	252	132140	91.43	ng		95
69)	Chrysene	16.73	228	279533m	82.06	ng		99
70)	bis(2-Ethylhexyl)phthalate	16.63	149	412683	82.05	ng		99
72)	Di-n-octylphthalate	17.26	149	747046	86.82	ng		99
73)	Benzo[b]fluoranthene	17.93	252	455741m	76.01	ng		97
74)	Benzo[k]fluoranthene	17.96	252	408427m	90.00	ng		93
75)	Benzo[a]pyrene	18.40	252	417058	83.95	ng		96
76)	Indeno[1,2,3-cd]pyrene	20.35	276	508294	80.40	ng	#	83
77)	Dibenz[a,h]anthracene	20.35	278	342681	80.84	ng	#	91
78)	Benzo[g,h,i]perylene	20.91	276	325969	79.42	ng	#	92

2/10/97

(#) = qualifier out of range (m) = manual integration

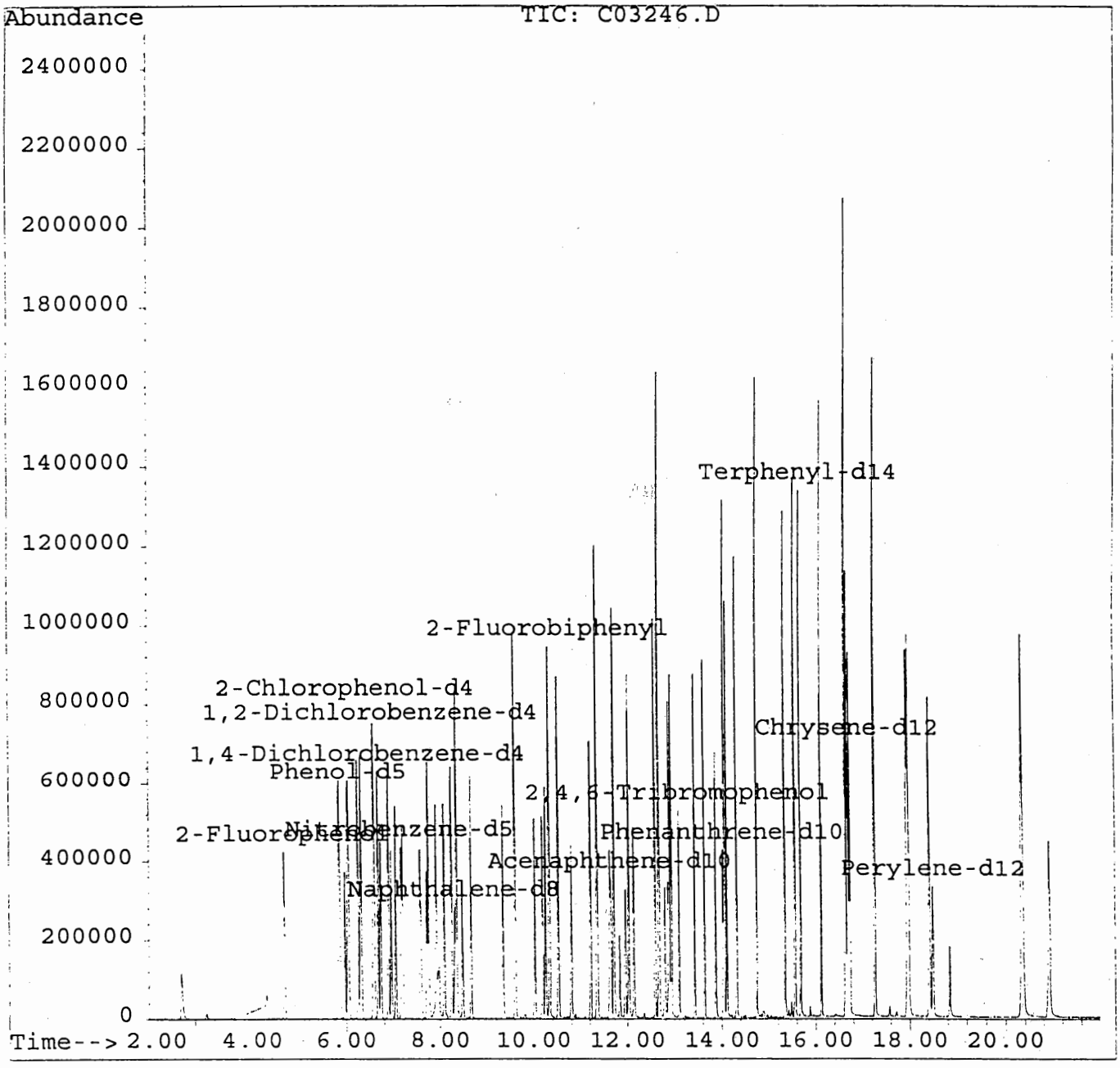
B 0047

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03246.D
Acq On : 10 Feb 97 2:28 pm
Sample : SSTD120
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:43 1997

Vial: 5
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0048

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03246.D
Acq On : 10 Feb 97 14:28
Sample : SSTD120
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:43 1997

Vial: 5
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.29	152	64945	40.00	ng		0.00
17) Naphthalene-d8	8.32	136	233524	40.00	ng		0.00
31) Acenaphthene-d10	11.65	164	131131	40.00	ng		0.00
52) Phenanthrene-d10	14.03	188	185789	40.00	ng		0.00
63) Chrysene-d12	16.70	240	169716	40.00	ng		0.00
71) Perylene-d12	18.48	264	214714	40.00	ng		0.00
System Monitoring Compounds							**%Recovery**
2) 2-Fluorophenol	4.68	112	235507	126.11	ng		84.07%
3) Phenol-d5	5.84	99	282389	122.49	ng		81.66%
6) 2-Chlorophenol-d4	6.03	132	271516	125.90	ng		83.93%
10) 1,2-Dichlorobenzene-d4	6.57	152	175232	123.69	ng		123.69%
18) Nitrobenzene-d5	7.16	82	211336	130.02	ng		130.02%
35) 2-Fluorobiphenyl	10.34	172	507946	127.74	ng		127.74%
51) 2,4,6-Tribromophenol	13.10	330	97274	140.65	ng		93.77%
65) Terphenyl-d14	15.69	244	502313	131.71	ng		131.71%
Target Compounds							**Qvalue**
4) Phenol	5.86	94	266451	120.18	ng		94
5) bis(2-Chloroethyl)ether	5.97	93	234049	121.61	ng		89
7) 2-Chlorophenol	6.05	128	252541	126.20	ng		93
8) 1,3-Dichlorobenzene	6.25	146	286766	124.12	ng		99
9) 1,4-Dichlorobenzene	6.32	146	294151	124.39	ng		98
11) 1,2-Dichlorobenzene	6.59	146	271127	122.86	ng		99
12) 2-Methylphenol	6.67	108	212567	125.68	ng		99
13) 2,2'-oxybis(1-Chloropropan	6.73	45	243333	115.08	ng		95
14) 4-Methylphenol	6.89	108	226987	127.25	ng		100
15) N-Nitroso-di-n-propylamine	6.95	70	138648	123.60	ng	#	85
16) Hexachloroethane	7.05	117	109705	128.03	ng		95
19) Nitrobenzene	7.19	77	204916	127.15	ng		98
20) Isophorone	7.56	82	413841	127.29	ng		95
21) 2-Nitrophenol	7.71	139	136464	144.20	ng		97
22) 2,4-Dimethylphenol	7.74	107	214379	140.87	ng		95
23) bis(2-Chloroethoxy)methane	7.91	93	255113	126.85	ng		96
24) 2,4-Dichlorophenol	8.08	162	196717	131.09	ng		99
25) 1,2,4-Trichlorobenzene	8.24	180	205922	128.32	ng		97
26) Naphthalene	8.35	128	730832	125.54	ng	#	86
27) 4-Chloroaniline	8.48	127	186863	170.96	ng		100
28) Hexachlorobutadiene	8.66	225	100656	130.76	ng		97
29) 4-Chloro-3-methylphenol	9.34	107	196861	131.64	ng		97
30) 2-Methylnaphthalene	9.60	142	478874	128.52	ng		100
32) Hexachlorocyclopentadiene	10.03	237	116211	140.37	ng		98
33) 2,4,6-Trichlorophenol	10.20	196	115409	127.59	ng		99

(#) = qualifier out of range (m) = manual integration

B 0049

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03246.D
Acq On : 10 Feb 97 14:28
Sample : SSTD120
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:43 1997

Vial: 5
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.26	196	138954	133.53	ng		99
36)	2-Chloronaphthalene	10.53	162	445984	125.41	ng		98
37)	2-Nitroaniline	10.81	65	101878	140.46	ng	#	79
38)	Dimethylphthalate	11.22	163	546008	131.95	ng		99
39)	Acenaphthylene	11.35	152	705656	124.39	ng		100
40)	2,6-Dinitrotoluene	11.37	165	116125	144.06	ng		99
41)	3-Nitroaniline	11.63	138	139241	136.09	ng		98
42)	Acenaphthene	11.71	153	458380	125.23	ng		100
43)	2,4-Dinitrophenol	11.84	184	49061	207.24	ng		94
44)	4-Nitrophenol	11.96	109	72734	141.18	ng		92
45)	Dibenzofuran	12.03	168	640624	127.74	ng		96
46)	2,4-Dinitrotoluene	12.14	165	165043	152.60	ng		90
47)	Diethylphthalate	12.59	149	578228	132.69	ng		98
48)	Fluorene	12.67	166	458304	124.07	ng		99
49)	4-Chlorophenyl-phenylether	12.67	204	195884	126.07	ng		99
50)	4-Nitroaniline	12.80	138	140009	144.15	ng		97
53)	4,6-Dinitro-2-methylphenol	12.86	198	67576	182.76	ng		100
54)	N-Nitrosodiphenylamine	12.89	169	288607	167.59	ng		100
55)	4-Bromophenyl-phenylether	13.43	248	131518	127.66	ng		91
56)	Hexachlorobenzene	13.64	284	167074	129.28	ng	#	85
57)	Pentachlorophenol	13.88	266	102430	138.21	ng		97
58)	Phenanthrene	14.06	178	656339	123.15	ng		100
59)	Anthracene	14.12	178	607482	127.92	ng		99
60)	Carbazole	14.32	167	632080	123.50	ng		98
61)	Di-n-butylphthalate	14.75	149	995827	128.64	ng		99
62)	Fluoranthene	15.35	202	655245	125.85	ng		98
64)	Pyrene	15.56	202	662136	129.56	ng		98
66)	Butylbenzylphthalate	16.12	149	426998	133.07	ng		92
67)	Benzo[a]anthracene	16.69	228	566596	127.14	ng		99
68)	3,3'-Dichlorobenzidine	16.65	252	202113	150.23	ng	#	95
69)	Chrysene	16.73	228	405978	128.02	ng		99
70)	bis(2-Ethylhexyl)phthalate	16.64	149	603200	128.82	ng		99
72)	Di-n-octylphthalate	17.26	149	1107708	136.77	ng		100
73)	Benzo[b]fluoranthene	17.94	252	654146m	115.91	ng		82
74)	Benzo[k]fluoranthene	17.98	252	607068m	142.12	ng		77
75)	Benzo[a]pyrene	18.41	252	611131	130.69	ng		95
76)	Indeno[1,2,3-cd]pyrene	20.36	276	744768	125.15	ng	#	82
77)	Dibenz[a,h]anthracene	20.36	278	501266	125.64	ng	#	91
78)	Benzo[g,h,i]perylene	20.92	276	479390	124.08	ng	#	91

AA 2/10/97

B 0050

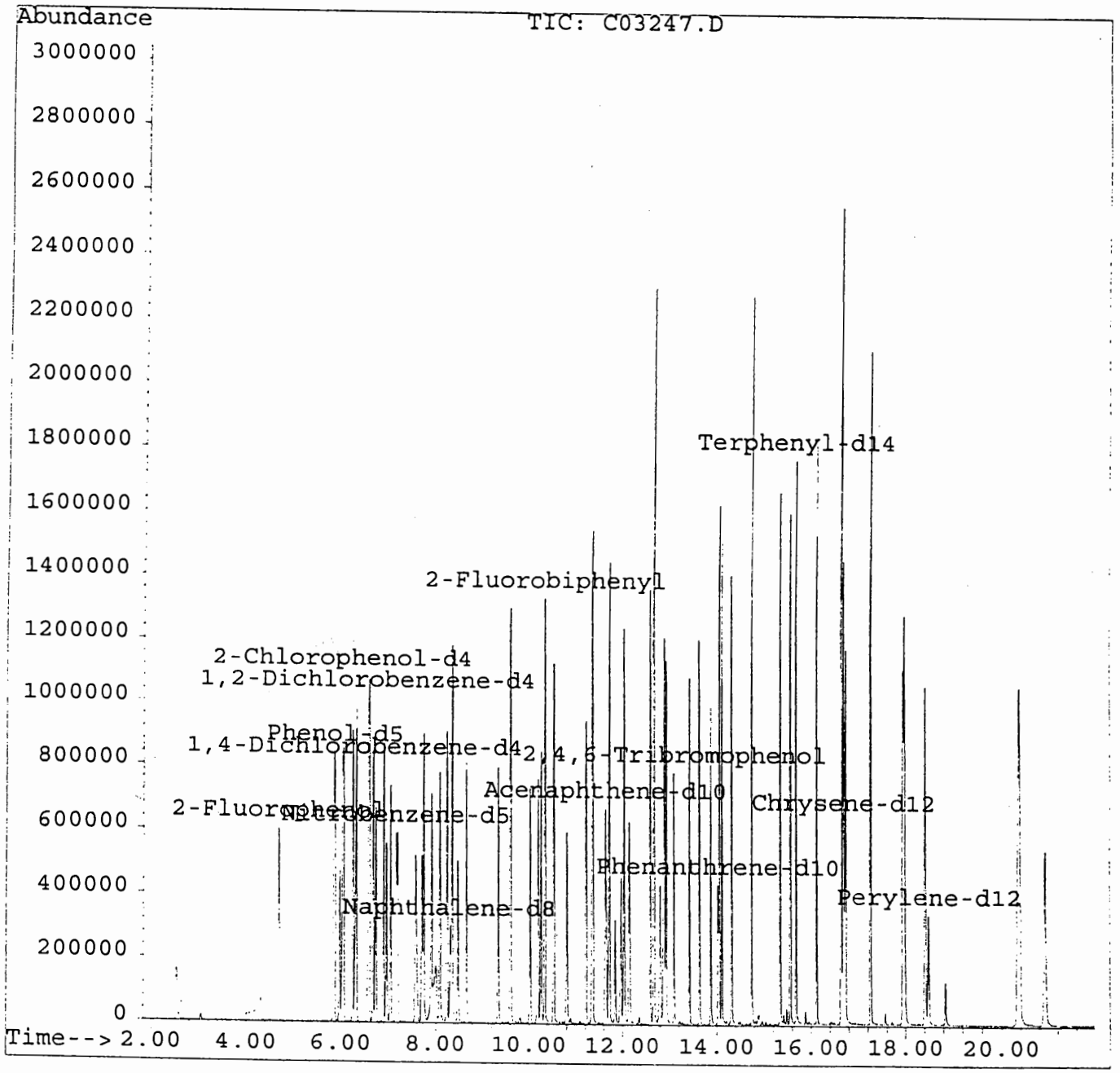
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03247.D
Acq On : 10 Feb 97 2:59 pm
Sample : SSTD160
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:47 1997

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0051

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03247.D Vial: 6
Acq On : 10 Feb 97 14:59 Operator: ANNMARIE
Sample : SSTD160 Inst : 5972 - GC
Misc : H5972 10 UL BN392 => 1 ML Multiplr: 1.00
Quant Time: Feb 12 11:47 1997

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	67344	40.00	ng		0.00
17) Naphthalene-d8	8.32	136	243646	40.00	ng		0.00
31) Acenaphthene-d10	11.65	164	136624	40.00	ng		0.00
52) Phenanthrene-d10	14.03	188	191455	40.00	ng		0.00
63) Chrysene-d12	16.71	240	163451	40.00	ng		0.00
71) Perylene-d12	18.48	264	207734	40.00	ng		0.00
System Monitoring Compounds							%Recovery
2) 2-Fluorophenol	4.68	112	334415	172.69	ng		115.13%
3) Phenol-d5	5.85	99	397597	166.32	ng		110.88%
6) 2-Chlorophenol-d4	6.03	132	385138	172.22	ng		114.81%
10) 1,2-Dichlorobenzene-d4	6.57	152	246547	167.82	ng		167.82%
18) Nitrobenzene-d5	7.17	82	302771	178.53	ng		178.53%
35) 2-Fluorobiphenyl	10.34	172	720805	173.98	ng		173.98%
51) 2,4,6-Tribromophenol	13.10	330	142353	197.56	ng		131.70%
65) Terphenyl-d14	15.69	244	667162	181.64	ng		181.64%
Target Compounds							Qvalue
4) Phenol	5.87	94	369659	160.79	ng		95
5) bis(2-Chloroethyl)ether	5.98	93	327876	164.30	ng		90
7) 2-Chlorophenol	6.05	128	355524	171.34	ng		93
8) 1,3-Dichlorobenzene	6.25	146	401183	167.46	ng		99
9) 1,4-Dichlorobenzene	6.32	146	412248	168.12	ng		99
11) 1,2-Dichlorobenzene	6.59	146	380744	166.39	ng		100
12) 2-Methylphenol	6.68	108	298829	170.39	ng		100
13) 2,2'-oxybis(1-Chloropropan	6.73	45	338818	154.53	ng		95
14) 4-Methylphenol	6.90	108	317019	171.39	ng		99
15) N-Nitroso-di-n-propylamine	6.96	70	194190	166.95	ng	#	85
16) Hexachloroethane	7.04	117	155282	174.76	ng		96
19) Nitrobenzene	7.20	77	289155	171.97	ng		99
20) Isophorone	7.57	82	595569	175.57	ng		94
21) 2-Nitrophenol	7.71	139	199083	201.63	ng		97
22) 2,4-Dimethylphenol	7.75	107	307199	193.47	ng		96
23) bis(2-Chloroethoxy)methane	7.92	93	363063	173.02	ng	#	93
24) 2,4-Dichlorophenol	8.09	162	283247	180.91	ng		99
25) 1,2,4-Trichlorobenzene	8.24	180	293133	175.08	ng		98
26) Naphthalene	8.35	128	1026402	168.99	ng	#	86
27) 4-Chloroaniline	8.48	127	299715	262.82	ng		99
28) Hexachlorobutadiene	8.66	225	144136	179.47	ng		97
29) 4-Chloro-3-methylphenol	9.35	107	285906	183.25	ng		97
30) 2-Methylnaphthalene	9.61	142	677021	174.15	ng		100
32) Hexachlorocyclopentadiene	10.03	237	172687	200.20	ng		99
33) 2,4,6-Trichlorophenol	10.20	196	165951	176.08	ng		99

(#) = qualifier out of range (m) = manual integration

B-0052

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03247.D
Acq On : 10 Feb 97 14:59
Sample : SSTD160
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 12 11:47 1997

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Wed Feb 12 11:19:39 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03244.D

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.26	196	201560	185.91 ng		99
36)	2-Chloronaphthalene	10.54	162	631938	170.55 ng		98
37)	2-Nitroaniline	10.81	65	145146	192.07 ng	#	76
38)	Dimethylphthalate	11.23	163	779738	180.86 ng		100
39)	Acenaphthylene	11.35	152	996834	168.66 ng		100
40)	2,6-Dinitrotoluene	11.37	165	168698	200.86 ng		98
41)	3-Nitroaniline	11.63	138	207027	194.21 ng	#	97
42)	Acenaphthene	11.72	153	655590	171.91 ng		99
43)	2,4-Dinitrophenol	11.84	184	80322	325.64 ng		91
44)	4-Nitrophenol	11.97	109	106395	198.22 ng		93
45)	Dibenzofuran	12.03	168	915895	175.29 ng		97
46)	2,4-Dinitrotoluene	12.15	165	242870	215.54 ng		91
47)	Diethylphthalate	12.59	149	818777	180.33 ng		98
48)	Fluorene	12.67	166	632320	164.29 ng		100
49)	4-Chlorophenyl-phenylether	12.67	204	270787	167.27 ng		98
50)	4-Nitroaniline	12.81	138	196051	193.74 ng		98
53)	4,6-Dinitro-2-methylphenol	12.88	198	103663	272.06 ng		100
54)	N-Nitrosodiphenylamine	12.90	169	440521	248.23 ng		100
55)	4-Bromophenyl-phenylether	13.44	248	186104	175.29 ng		92
56)	Hexachlorobenzene	13.64	284	238147	178.83 ng	#	85
57)	Pentachlorophenol	13.88	266	147539	193.19 ng		98
58)	Phenanthrene	14.07	178	914542	166.51 ng		100
59)	Anthracene	14.12	178	837464	171.13 ng		100
60)	Carbazole	14.32	167	855518	162.21 ng		98
61)	Di-n-butylphthalate	14.75	149	1373075	172.12 ng		99
62)	Fluoranthene	15.35	202	882747	164.53 ng		96
64)	Pyrene	15.56	202	878586	178.51 ng		96
66)	Butylbenzylphthalate	16.12	149	559766	181.14 ng		92
67)	Benzo[a]anthracene	16.69	228	746122	173.84 ng		98
68)	3,3'-Dichlorobenzidine	16.65	252	267412	206.39 ng	#	95
69)	Chrysene	16.74	228	522856	171.19 ng		98
70)	bis(2-Ethylhexyl)phthalate	16.64	149	766403	169.95 ng		99
72)	Di-n-octylphthalate	17.26	149	1408272	179.72 ng		99
73)	Benzo[b]fluoranthene	17.95	252	1017376m	186.33 ng		96
74)	Benzo[k]fluoranthene	17.98	252	642758m	155.53 ng		92
75)	Benzo[a]pyrene	18.42	252	819660	181.18 ng	#	95
76)	Indeno[1,2,3-cd]pyrene	20.39	276	955754	166.00 ng	#	82
77)	Dibenz[a,h]anthracene	20.37	278	653560	169.31 ng	#	91
78)	Benzo[g,h,i]perylene	20.94	276	621894	166.38 ng	#	91

(#) = qualifier out of range (m) = manual integration

2/10/97

B 0053

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Instrument ID: H5972 Calibration Date: 02/18/97 Time: 15:36

Lab File ID: C03337.D Init. Calib. Date(s): 02/10/97 02/10/97

Init. Calib. Times: 12:18 14:59

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.506	1.328	0.800	11.8	25.0
bis(2-Chloroethyl)ether	1.326	1.175	0.700	11.4	25.0
2-Chlorophenol	1.395	1.330	0.800	4.7	25.0
1,3-Dichlorobenzene	1.591	1.437	0.600	9.7	25.0
1,4-Dichlorobenzene	1.629	1.472	0.500	9.6	25.0
1,2-Dichlorobenzene	1.522	1.387	0.400	8.8	25.0
2-Methylphenol	1.183	1.089	0.700	7.9	25.0
2,2'-oxybis(1-Chloropropane)	1.432	1.249		12.8	
4-Methylphenol	1.247	1.134	0.600	9.1	25.0
N-Nitroso-di-n-propylamine	0.778	0.714	0.500	8.1	25.0
Hexachloroethane	0.603	0.574	0.300	4.7	25.0
Nitrobenzene	0.310	0.292	0.200	5.8	25.0
Isophorone	0.629	0.528	0.400	16.0	25.0
2-Nitrophenol	0.192	0.185	0.100	3.6	25.0
2,4-Dimethylphenol	0.318	0.261	0.200	17.9	25.0
bis(2-Chloroethoxy)methane	0.391	0.328	0.300	16.2	25.0
2,4-Dichlorophenol	0.293	0.241	0.200	17.5	25.0
1,2,4-Trichlorobenzene	0.310	0.273	0.200	12.1	25.0
Naphthalene	1.112	1.021	0.700	8.2	25.0
4-Chloroaniline	0.313	0.180		42.3	
Hexachlorobutadiene	0.149	0.134		9.9	
4-Chloro-3-methylphenol	0.293	0.260	0.200	11.2	25.0
2-Methylnaphthalene	0.727	0.632	0.400	13.2	25.0
Hexachlorocyclopentadiene	0.298	0.231		22.5	
2,4,6-Trichlorophenol	0.305	0.309	0.200	-1.0	25.0
2,4,5-Trichlorophenol	0.343	0.363	0.200	-5.9	25.0
2-Chloronaphthalene	1.208	1.072	0.800	11.2	25.0
2-Nitroaniline	0.246	0.304		-23.3	
Dimethylphthalate	1.450	1.305		10.0	
Acenaphthylene	1.929	1.741	1.300	9.8	25.0
2,6-Dinitrotoluene	0.288	0.313	0.200	-8.8	25.0
3-Nitroaniline	0.345	0.374		-8.6	
Acenaphthene	1.254	1.103	0.800	12.1	25.0
2,4-Dinitrophenol	0.110	0.095		13.5	
4-Nitrophenol	0.176	0.203		-15.0	
Dibenzofuran	1.729	1.529	0.800	11.5	25.0
2,4-Dinitrotoluene	0.396	0.438	0.200	-10.7	25.0
Diethylphthalate	1.521	1.396		8.2	
Fluorene	1.250	1.146	0.900	8.3	25.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Instrument ID: H5972 Calibration Date: 02/18/97 Time: 15:36

Lab File ID: C03337.D Init. Calib. Date(s): 02/10/97 02/10/97

Init. Calib. Times: 12:18 14:59

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
4-Chlorophenyl-phenylether	0.531	0.547	0.400	-2.9	25.0
4-Nitroaniline	0.335	0.363		-8.5	
4,6-Dinitro-2-methylphenol	0.110	0.115		-4.7	
N-Nitrosodiphenylamine	0.544	0.336		38.3	
4-Bromophenyl-phenylether	0.250	0.195	0.100	21.8	25.0
Hexachlorobenzene	0.318	0.215	0.100	32.4	25.0
Pentachlorophenol	0.178	0.140	0.050	21.2	25.0
Phenanthrene	1.274	1.095	0.700	14.1	25.0
Anthracene	1.167	0.988	0.700	15.3	25.0
Carbazole	1.216	0.953		21.6	
Di-n-butylphthalate	1.887	1.588		15.9	
Fluoranthene	1.251	1.199	0.600	4.1	25.0
Pyrene	1.399	1.354	0.600	3.2	25.0
Butylbenzylphthalate	0.878	0.819		6.7	
Benzo[a]anthracene	1.198	1.124	0.800	6.2	25.0
3,3'-Dichlorobenzidine	0.419	0.281		32.9	
Chrysene	0.847	0.817	0.700	3.5	25.0
bis(2-Ethylhexyl)phthalate	1.248	1.197		4.1	
Di-n-octylphthalate	1.756	1.908		-8.7	
Benzo[b]fluoranthene	1.149	1.000	0.700	13.0	25.0
Benzo[k]fluoranthene	0.917	0.915	0.700	0.2	25.0
Benzo[a]pyrene	1.012	0.909	0.700	10.1	25.0
Indeno[1,2,3-cd]pyrene	1.219	1.025	0.500	15.9	25.0
Dibenz[a,h]anthracene	0.819	0.665	0.400	18.8	25.0
Benzo[g,h,i]perylene	0.794	0.675	0.500	15.0	25.0
2-Fluorophenol	1.298	1.273	0.600	1.9	25.0
Phenol-d5	1.588	1.440	0.800	9.3	25.0
2-Chlorophenol-d4	1.505	1.407	0.800	6.5	25.0
1,2-Dichlorobenzene-d4	0.979	0.875	0.400	10.6	25.0
Nitrobenzene-d5	0.313	0.298	0.200	4.6	25.0
2-Fluorobiphenyl	1.372	1.239	0.700	9.7	25.0
2,4,6-Tribromophenol	0.245	0.176		28.1	
Terphenyl-d14	1.057	0.858	0.500	18.8	25.0

(1) Cannot be separated from Diphenylamine

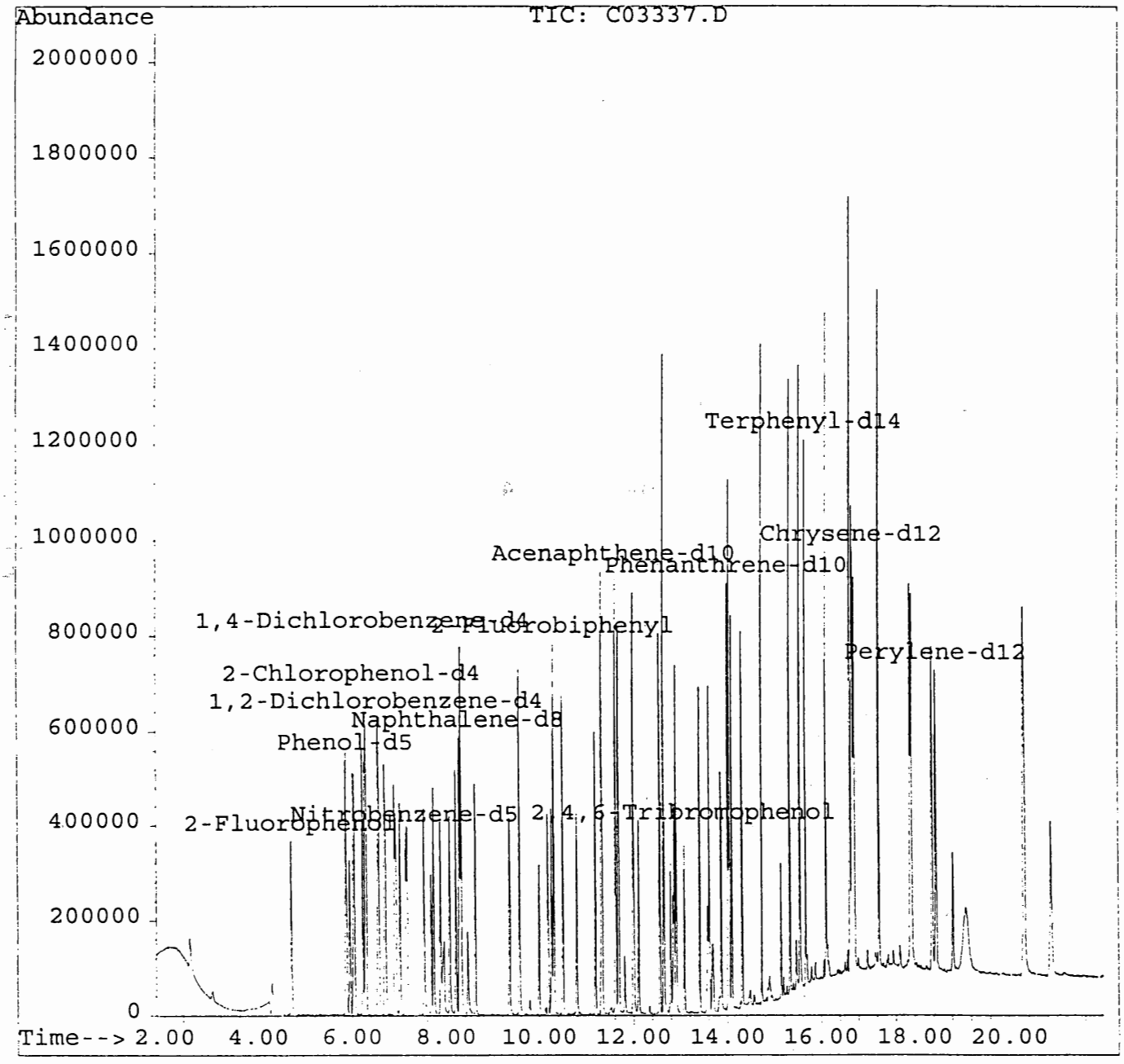
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03337.D
Acq On : 18 Feb 97 3:36 pm
Sample : SSTD050
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 18 16:04 1997

Vial: 2
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0056

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03337.D
Acq On : 18 Feb 97 15:36
Sample : SSTD050
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 18 16:04 1997

Vial: 2
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Sun Feb 16 17:21:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03314.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	126772	40.00	ng		0.00
17) Naphthalene-d8	8.29	136	476773#	40.00	ng		0.01
31) Acenaphthene-d10	11.62	164	245835	40.00	ng		0.00
52) Phenanthrene-d10	14.01	188	375423	40.00	ng		0.00
63) Chrysene-d12	16.69	240	337005	40.00	ng		0.00
71) Perylene-d12	18.46	264	381441	40.00	ng		0.00
System Monitoring Compounds							%Recovery
2) 2-Fluorophenol	4.70	112	201664	57.31	ng		38.21%
3) Phenol-d5	5.86	99	228194	56.05	ng		37.36%
6) 2-Chlorophenol-d4	6.02	132	222945	53.44	ng		35.62%
10) 1,2-Dichlorobenzene-d4	6.55	152	138690	49.66	ng		49.66%
18) Nitrobenzene-d5	7.14	82	177590	55.49	ng		55.49%
35) 2-Fluorobiphenyl	10.31	172	380634	51.06	ng		51.06%
51) 2,4,6-Tribromophenol	13.08	330	54045	40.56	ng		27.04%
65) Terphenyl-d14	15.67	244	361594	46.59	ng		46.59%
Target Compounds							Qvalue
4) Phenol	5.88	94	210393	54.78	ng		97
5) bis(2-Chloroethyl)ether	5.94	93	186227	57.27	ng		95
7) 2-Chlorophenol	6.04	128	210703	54.29	ng		96
8) 1,3-Dichlorobenzene	6.22	146	227727	50.33	ng		100
9) 1,4-Dichlorobenzene	6.29	146	233312	50.76	ng		99
11) 1,2-Dichlorobenzene	6.56	146	219851	51.15	ng		100
12) 2-Methylphenol	6.69	108	172602	56.75	ng		97
13) 2,2'-oxybis(1-Chloropropan	6.71	45	197925	74.17	ng	#	32
14) 4-Methylphenol	6.90	108	179680	55.70	ng		99
15) N-Nitroso-di-n-propylamine	6.93	70	113173	58.37	ng		87
16) Hexachloroethane	7.02	117	90955	54.27	ng		91
19) Nitrobenzene	7.17	77	173754	57.02	ng		99
20) Isophorone	7.53	82	314635	52.08	ng		94
21) 2-Nitrophenol	7.69	139	110491	52.11	ng		98
22) 2,4-Dimethylphenol	7.74	107	155361	50.25	ng		96
23) bis(2-Chloroethoxy)methane	7.88	93	195384	53.13	ng	#	95
24) 2,4-Dichlorophenol	8.08	162	143833	47.76	ng		99
25) 1,2,4-Trichlorobenzene	8.22	180	162430	50.63	ng		98
26) Naphthalene	8.32	128	608551	51.98	ng	#	96
27) 4-Chloroaniline	8.46	127	107434	48.92	ng		99
28) Hexachlorobutadiene	8.62	225	80057	48.58	ng		99
29) 4-Chloro-3-methylphenol	9.36	107	154845	49.35	ng		100
30) 2-Methylnaphthalene	9.58	142	376336	48.64	ng		100
32) Hexachlorocyclopentadiene	10.00	237	71104	50.98	ng		97
33) 2,4,6-Trichlorophenol	10.18	196	94798	56.68	ng		99

B-0057

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03337.D
Acq On : 18 Feb 97 15:36
Sample : SSTD050
Misc : H5972 10 UL BN392 => 1 ML
Quant Time: Feb 18 16:04 1997

Vial: 2
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Sun Feb 16 17:21:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03314.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.26	196	111619	56.12	ng		95
36)	2-Chloronaphthalene	10.50	162	329489	49.66	ng		98
37)	2-Nitroaniline	10.80	65	93251	66.71	ng		94
38)	Dimethylphthalate	11.19	163	400852	49.83	ng		100
39)	Acenaphthylene	11.33	152	535034	49.94	ng		99
40)	2,6-Dinitrotoluene	11.34	165	96251	55.06	ng		96
41)	3-Nitroaniline	11.62	138	115044	53.09	ng		96
42)	Acenaphthene	11.69	153	338875	48.84	ng		100
43)	2,4-Dinitrophenol	11.82	184	29252	67.02	ng		93
44)	4-Nitrophenol	12.01	109	62268	46.78	ng	#	1
45)	Dibenzofuran	12.00	168	469898	49.15	ng	#	65
46)	2,4-Dinitrotoluene	12.12	165	134597	54.83	ng		98
47)	Diethylphthalate	12.56	149	429020	48.75	ng		99
48)	Fluorene	12.64	166	351993	51.28	ng		99
49)	4-Chlorophenyl-phenylether	12.65	204	168006	56.89	ng		94
50)	4-Nitroaniline	12.79	138	111531	52.24	ng		99
53)	4,6-Dinitro-2-methylphenol	12.84	198	53875	58.60	ng		100
54)	N-Nitrosodiphenylamine	12.87	169	157646	44.21	ng		99
55)	4-Bromophenyl-phenylether	13.41	248	91637	43.63	ng		96
56)	Hexachlorobenzene	13.61	284	100757	38.78	ng		97
57)	Pentachlorophenol	13.87	266	65773	42.87	ng	#	41
58)	Phenanthrene	14.04	178	513612	49.86	ng		100
59)	Anthracene	14.10	178	463857	49.64	ng		99
60)	Carbazole	14.31	167	447132	43.49	ng		99
61)	Di-n-butylphthalate	14.73	149	745095	46.22	ng		99
62)	Fluoranthene	15.33	202	562770	53.49	ng		94
64)	Pyrene	15.54	202	570470	56.02	ng		94
66)	Butylbenzylphthalate	16.10	149	345031	49.43	ng		97
67)	Benzo[a]anthracene	16.66	228	473429	54.58	ng		99
68)	3,3'-Dichlorobenzidine	16.63	252	118443	42.03	ng		96
69)	Chrysene	16.71	228	343991	55.18	ng		98
70)	bis(2-Ethylhexyl)phthalate	16.61	149	504260	51.38	ng		97
72)	Di-n-octylphthalate	17.23	149	909916	58.01	ng		99
73)	Benzo[b]fluoranthene	17.91	252	476599m	53.23	ng		99
74)	Benzo[k]fluoranthene	17.94	252	436173m	51.85	ng		95
75)	Benzo[a]pyrene	18.38	252	433500	52.39	ng		97
76)	Indeno[1,2,3-cd]pyrene	20.31	276	488914	49.72	ng		99
77)	Dibenz[a,h]anthracene	20.31	278	317085	48.30	ng		99
78)	Benzo[g,h,i]perylene	20.88	276	321953	50.57	ng		99

2/18/97

B-0058

(#) = qualifier out of range (m) = manual integration

IV. RAW QC DATA PACKAGE FOR SEMIVOLATILES

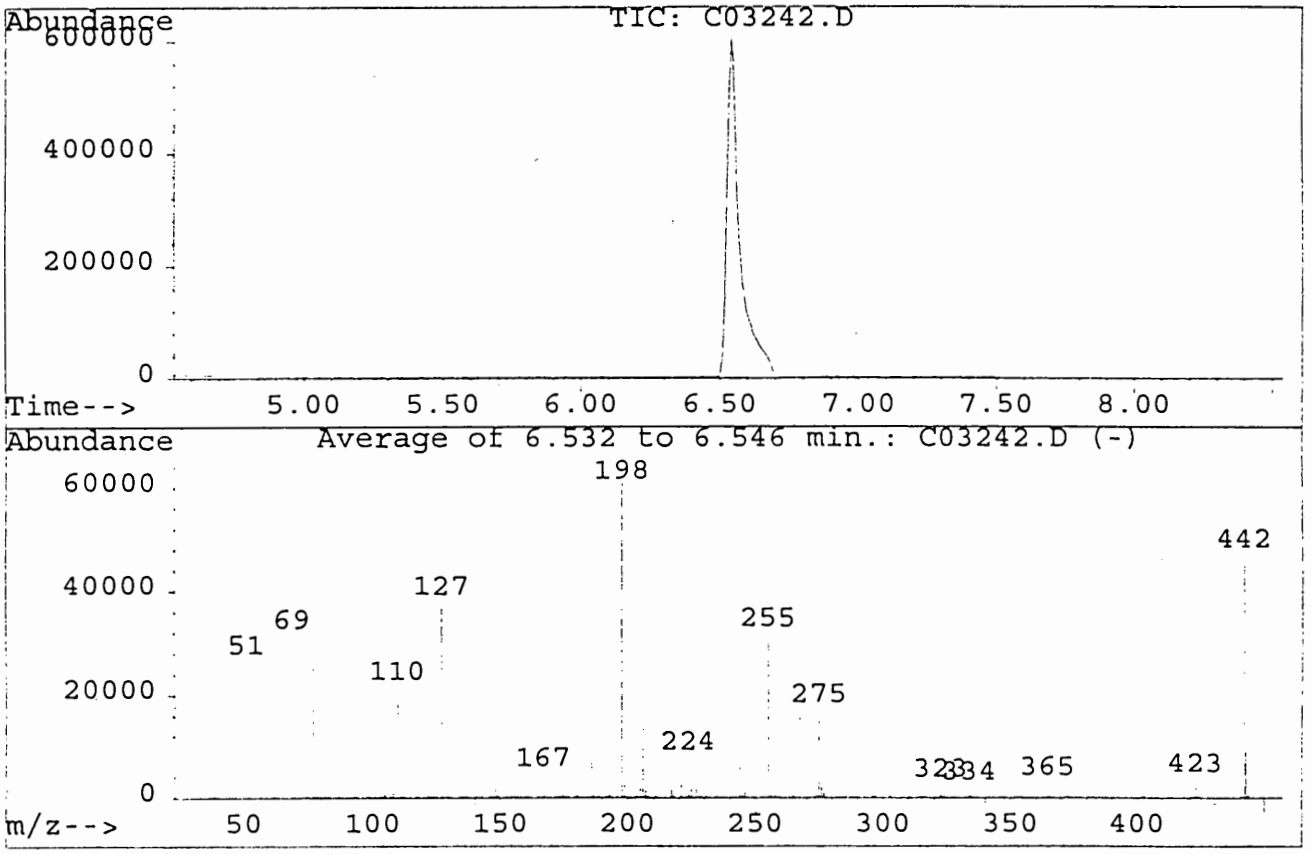
A. TUNING
B. BLANK
C. MATRIX SPIKE BLANK
D. SPIKE AND SPIKE DUPLICATE
E. COPY OF CALCULATIONS

DFTPP

Data File : C:\HPCHEM\1\DATA\C03242.D
Acq On : 10 Feb 97 12:03 pm
Sample : 50 NG DFTPP (MS 66-B)
Misc : H5972

Vial: 1
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration



Scans Used: 343 344 345 Bkg: 334

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	25517	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.7	30341	PASS
70	69	0.00	2	0.7	199	PASS
127	198	40	60	59.0	36768	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62291	PASS
199	198	5	9	6.8	4250	PASS
275	198	10	30	25.7	16004	PASS
365	198	1	100	2.9	1834	PASS
441	443	1	100	85.9	7838	PASS
442	198	40	110	73.8	45957	PASS
443	442	17	23	19.9	9129	PASS

B 0060

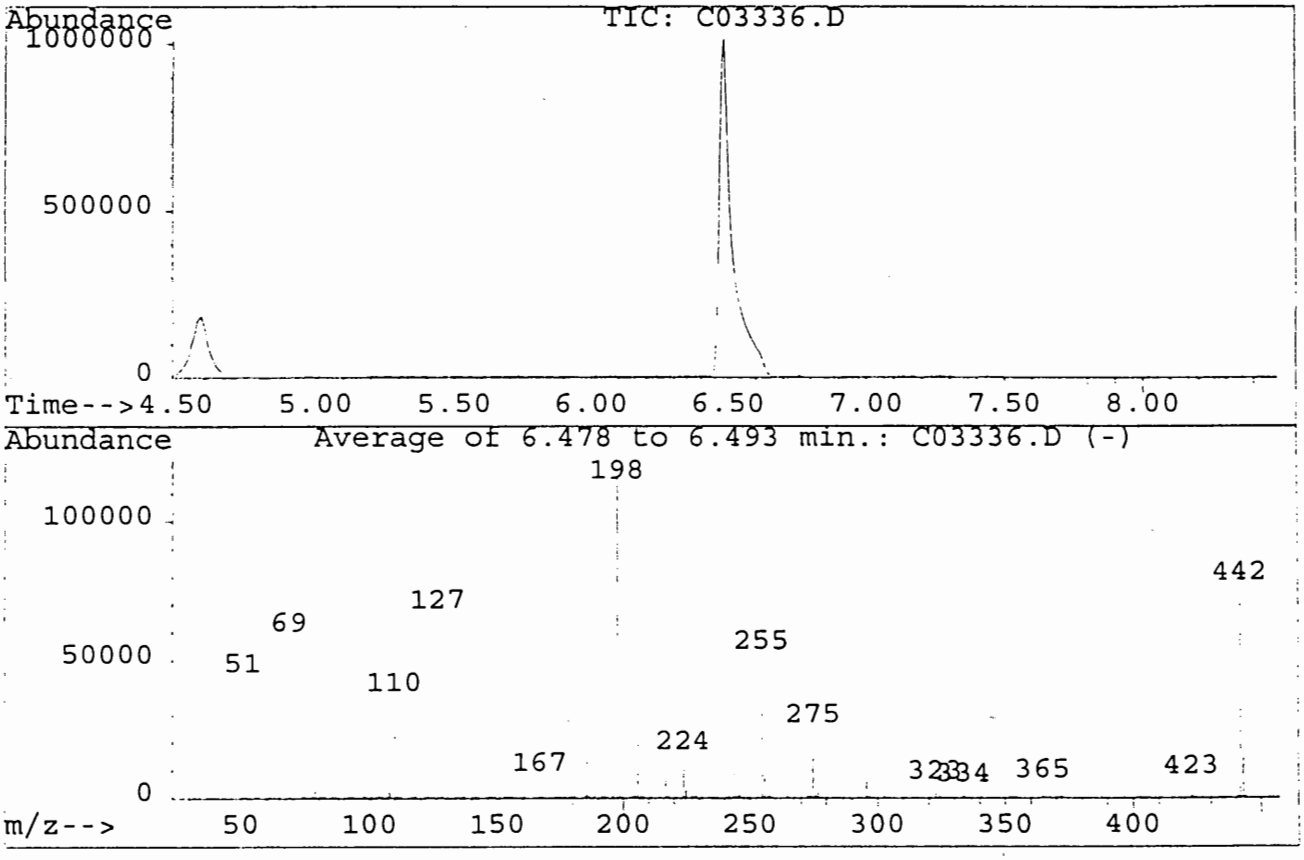
C03242.D CLP2.M Wed Feb 19 11:34:45 1997 H5890C

DFTPP

Data File : C:\HPCHEM\1\DATA\C03336.D
Acq On : 18 Feb 97 3:21 pm
Sample : 50 NG DFTPP (MS 66-B)
Misc : H5972

Vial: 1
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration



Scans Used: 336 337 338 Bkg: 326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.4	41245	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.0	55877	PASS
70	69	0.00	2	0.2	86	PASS
127	198	40	60	55.0	64077	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	116517	PASS
199	198	5	9	6.6	7703	PASS
275	198	10	30	19.4	22621	PASS
365	198	1	100	2.2	2509	PASS
441	443	1	100	83.6	11989	PASS
442	198	40	110	63.5	73963	PASS
443	442	17	23	19.4	14346	PASS

B 0061

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108952	Phenol	330	U
111444	bis(2-Chloroethyl)ether	330	U
95578	2-Chlorophenol	330	U
541731	1,3-Dichlorobenzene	330	U
106467	1,4-Dichlorobenzene	330	U
95501	1,2-Dichlorobenzene	330	U
95487	2-Methylphenol	330	U
108601	2,2'-oxybis(1-Chloropropane)	330	U
106445	4-Methylphenol	330	U
621647	N-Nitroso-di-n-propylamine	330	U
67721	Hexachloroethane	330	U
98953	Nitrobenzene	330	U
78591	Isophorone	330	U
88755	2-Nitrophenol	330	U
105679	2,4-Dimethylphenol	330	U
111911	bis(2-Chloroethoxy)methane	330	U
120832	2,4-Dichlorophenol	330	U
120821	1,2,4-Trichlorobenzene	330	U
91203	Naphthalene	330	U
106478	4-Chloroaniline	330	U
87683	Hexachlorobutadiene	330	U
59507	4-Chloro-3-methylphenol	330	U
91576	2-Methylnaphthalene	330	U
77474	Hexachlorocyclopentadiene	330	U
88062	2,4,6-Trichlorophenol	330	U
95954	2,4,5-Trichlorophenol	830	U
91587	2-Chloronaphthalene	330	U
88744	2-Nitroaniline	830	U
131113	Dimethylphthalate	330	U
208968	Acenaphthylene	330	U
606202	2,6-Dinitrotoluene	330	U
99092	3-Nitroaniline	830	U
83329	Acenaphthene	330	U
51285	2,4-Dinitrophenol	830	U
100027	4-Nitrophenol	830	U
132649	Dibenzofuran	330	U
121142	2,4-Dinitrotoluene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84662	Diethylphthalate	330	U
86737	Fluorene	330	U
7005723	4-Chlorophenyl-phenylether	330	U
100016	4-Nitroaniline	830	U
534521	4,6-Dinitro-2-methylphenol	830	U
86306	N-Nitrosodiphenylamine	330	U
101553	4-Bromophenyl-phenylether	330	U
118741	Hexachlorobenzene	330	U
87865	Pentachlorophenol	830	U
85018	Phenanthrene	330	U
120127	Anthracene	330	U
86748	Carbazole	330	U
84742	Di-n-butylphthalate	330	U
206440	Fluoranthene	330	U
129000	Pyrene	330	U
85687	Butylbenzylphthalate	330	U
56553	Benzo[a]anthracene	330	U
91941	3,3'-Dichlorobenzidine	330	U
218019	Chrysene	330	U
117817	bis(2-Ethylhexyl)phthalate	330	U
117840	Di-n-octylphthalate	330	U
205992	Benzo[b]fluoranthene	330	U
207089	Benzo[k]fluoranthene	330	U
50328	Benzo[a]pyrene	330	U
193395	Indeno[1,2,3-cd]pyrene	330	U
53703	Dibenz[a,h]anthracene	330	U
191242	Benzo[g,h,i]perylene	330	U

B 0063

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Number TICs found: 8 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000141-79-7	3-Penten-2-one, 4-methyl-	3.62	550	JN A
2.	unknown	3.94	450	J
3. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.31	14000	JN A
4.	unknown	4.43	940	J
5.	unknown alkane	4.49	1200	J
6.	unknown alkane	4.59	1400	J

(aa) 2/19/97

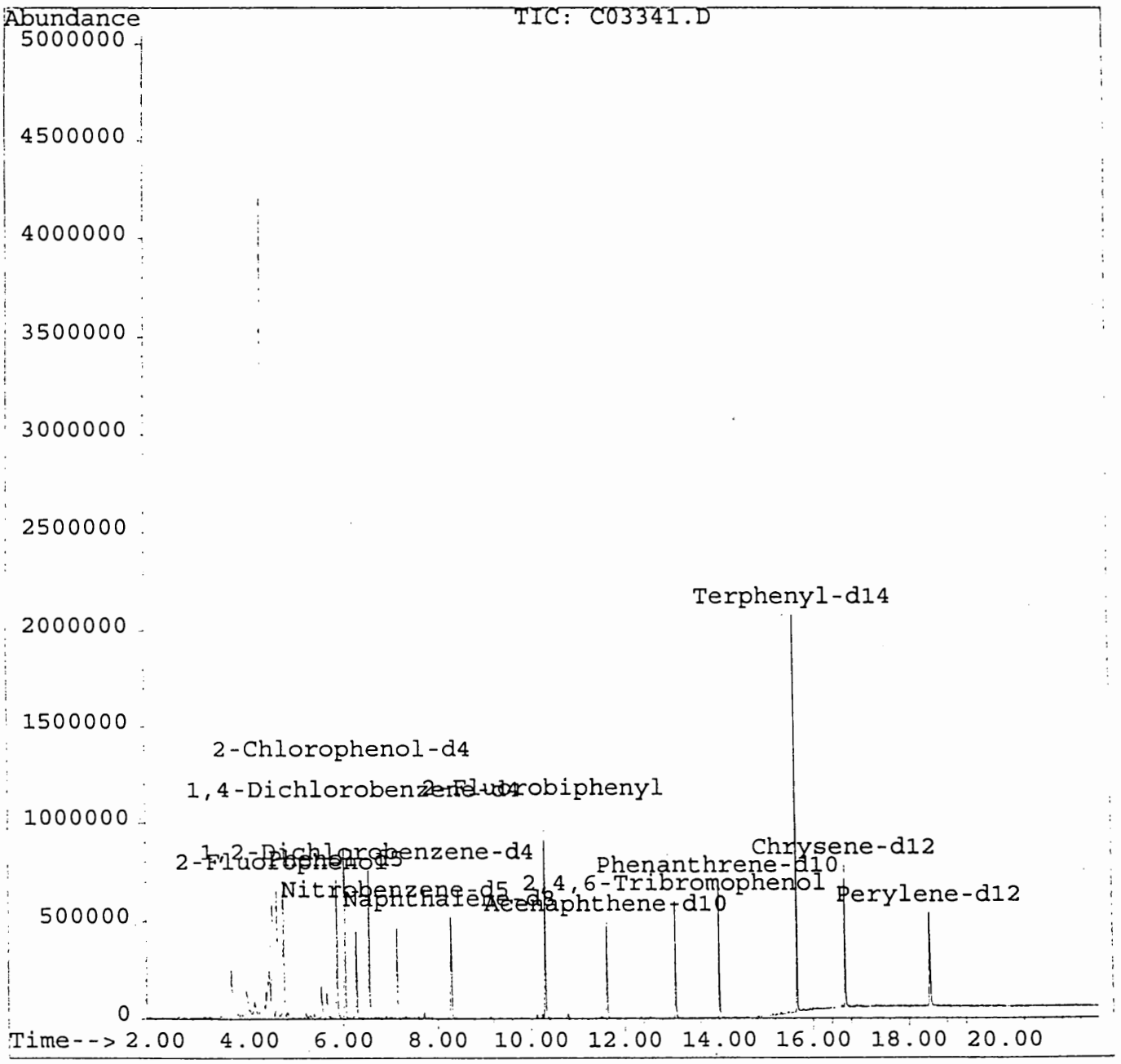
B 0064

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 5:43 pm
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML
Quant Time: Feb 19 10:22 1997

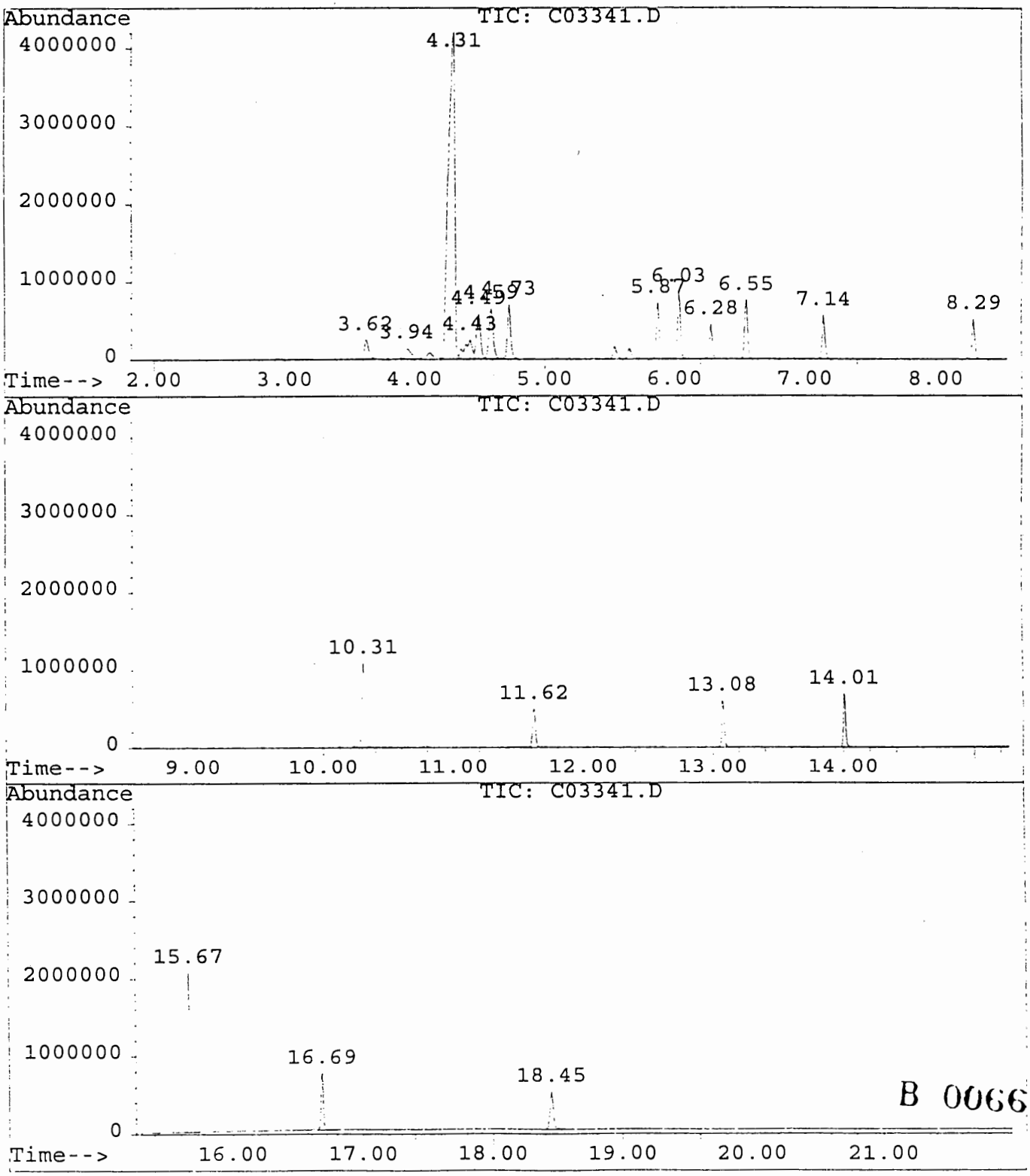
Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0065

File : C:\HPCHEM\1\DATA\C03341.D
Operator : ANNMARIE
Acquired : 18 Feb 97 17:43 using AcqMethod CLPS
Instrument : 5972 - GC
Sample Name: SBLK(1/24)
Misc Info : H5972 5 UL BN392 => 0.5 ML
Vial Number: 6



B 0066

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03341.D Vial: 6
Acq On : 18 Feb 97 17:43 Operator: ANNMARIE
Sample : SBLK(1/24) Inst : 5972 - GC
Misc : H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00
Quant Time: Feb 19 10:22 1997

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : CLP BNA Calibration
Last Update : Wed Feb 19 10:20:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03337.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	111002	40.00	ng	0.00
17) Naphthalene-d8	8.29	136	390720#	40.00	ng	0.00
31) Acenaphthene-d10	11.62	164	192722	40.00	ng	0.00
52) Phenanthrene-d10	14.01	188	316487	40.00	ng	0.00
63) Chrysene-d12	16.69	240	289167	40.00	ng	0.00
71) Perylene-d12	18.45	264	294705	40.00	ng	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	4.73	112	383668	108.64	ng	72.43%
3) Phenol-d5	5.87	99	444999	111.36	ng	74.24%
6) 2-Chlorophenol-d4	6.03	132	441133	112.99	ng	75.33%
10) 1,2-Dichlorobenzene-d4	6.55	152	193504	79.67	ng	79.67%
18) Nitrobenzene-d5	7.14	82	265987	91.38	ng	91.38%
35) 2-Fluorobiphenyl	10.31	172	552516	92.58	ng	92.58%
51) 2,4,6-Tribromophenol	13.08	330	92808	109.52	ng	73.02%
65) Terphenyl-d14	15.67	244	576467	92.90	ng	92.90%

Target Compounds Qvalue

B 0067

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: ANNMARIE Date Acquired: 18 Feb 97 17:43
Data File: C:\HPCHEM\1\DATA\C03341.D
Name: SBLK(1/24)
Misc: H5972 5 UL BN392 => 0.5 ML
Method: CLPS
Title: CLP BNA Calibration
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
3-Penten-2-one, 4-me	3.62	32.7	ng	559408	ISTD01	6.28	683407	40.0
Oxirane, trimethyl-	3.94	27.3	ng	465738	ISTD01	6.28	683407	40.0
2-Pentanone, 4-hydro	4.31	845.4	ng	14443536	ISTD01	6.28	683407	40.0
Heptane, 3,4-dimethy	4.43	56.6	ng	967729	ISTD01	6.28	683407	40.0
Octane, 4-methyl-	4.49	73.6	ng	1256993	ISTD01	6.28	683407	40.0
Octane, 3-methyl-	4.59	85.8	ng	1465429	ISTD01	6.28	683407	40.0

B 0068

Library Search Compound Report

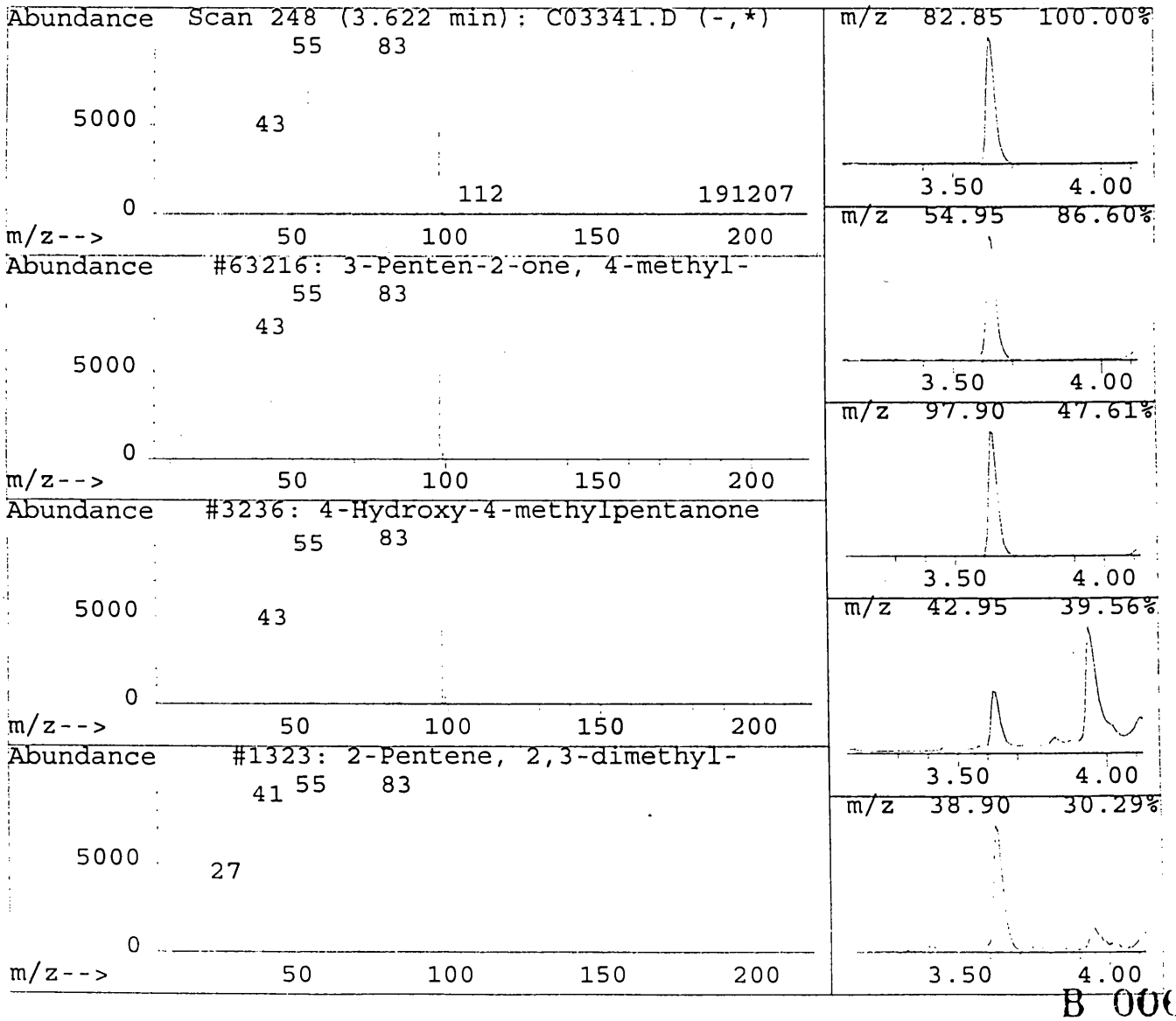
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.62	32.74 ng	559408	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	94
2	4-Hydroxy-4-methylpentanone	116	C6H12O2	000000-00-0	83
3	2-Pentene, 2,3-dimethyl-	98	C7H14	010574-37-5	78
4	Furan, 2-methoxy-	98	C5H6O2	025414-22-6	78
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	78



B 0069

Library Search Compound Report

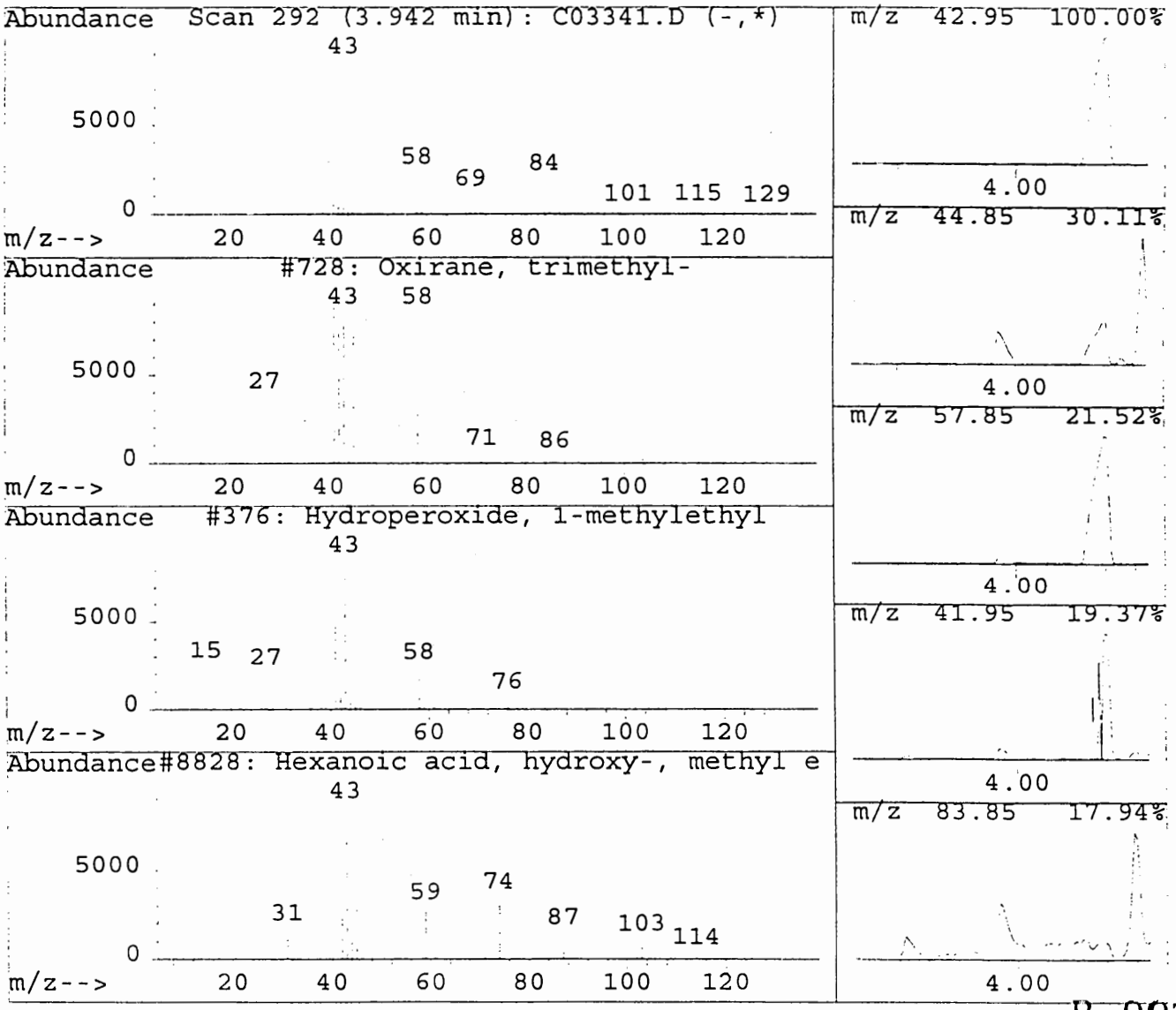
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.94	27.26 ng	465738	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, trimethyl-	86	C5H10O	005076-19-7	35
2	Hydroperoxide, 1-methylethyl	76	C3H8O2	003031-75-2	25
3	Hexanoic acid, hydroxy-, methyl est	146	C7H14O3	059942-11-9	25
4	Ethylamine	45	C2H7N	000075-04-7	9
5	Butane	58	C4H10	000106-97-8	9



B 0070

Library Search Compound Report

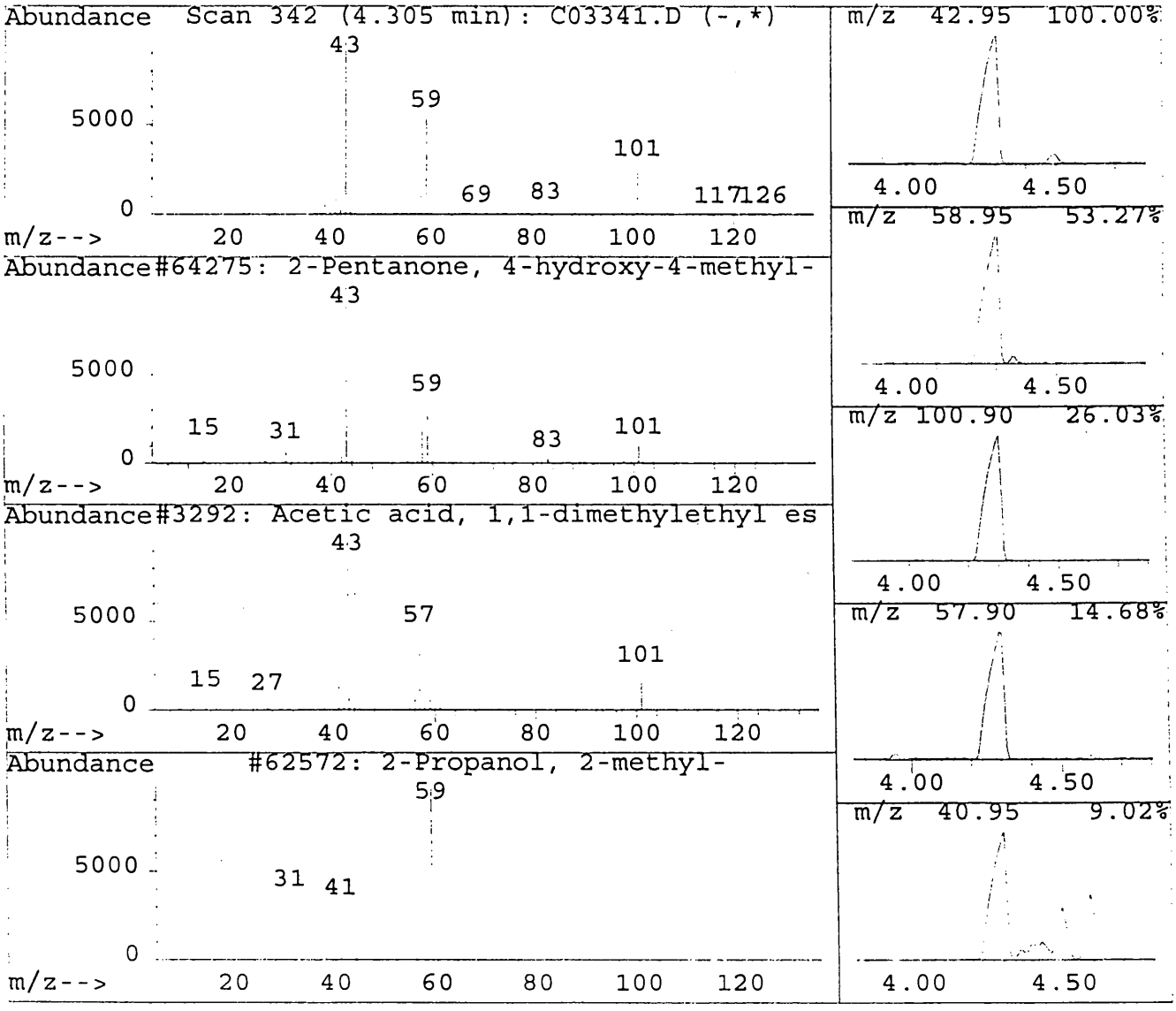
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.31	845.38 ng	14443536	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Acetic acid, 1,1-dimethylethyl este	116	C6H12O2	000540-88-5	33
3	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	17
4	CH2=CHCH2C(O)OCH3	100	C5H8O2	003724-55-8	10
5	3-Hydroxy-2-pentanone	102	C5H10O2	003142-66-3	9



B 0071

Library Search Compound Report

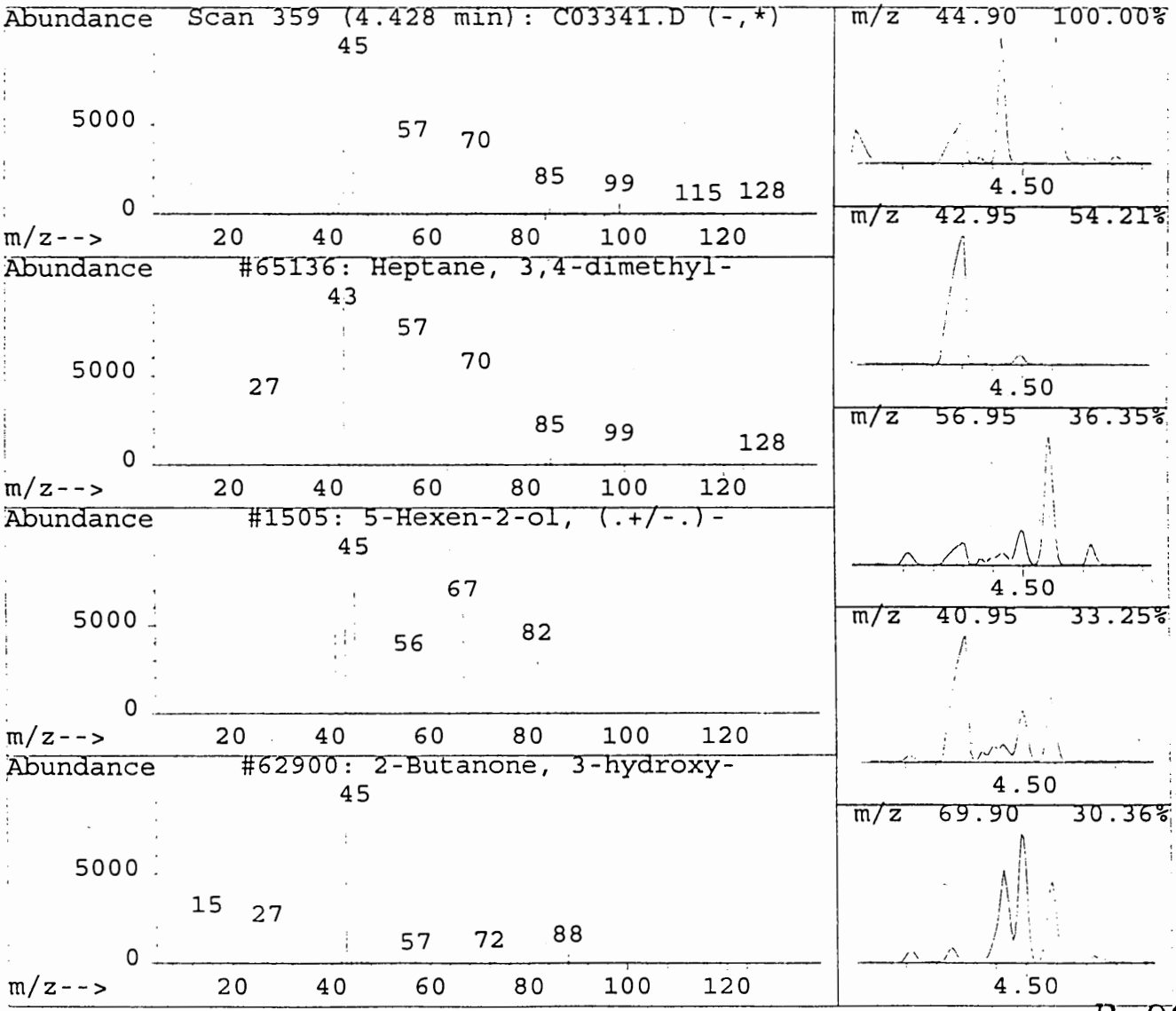
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.43	56.64 ng	967729	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	38
2	5-Hexen-2-ol, (.+/-.)-	100	C6H12O	054774-27-5	37
3	2-Butanone, 3-hydroxy-	88	C4H8O2	000513-86-0	32
4	Pentane, 3-ethyl-2-methyl-	114	C8H18	000609-26-7	22
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	16



B 0072

Library Search Compound Report

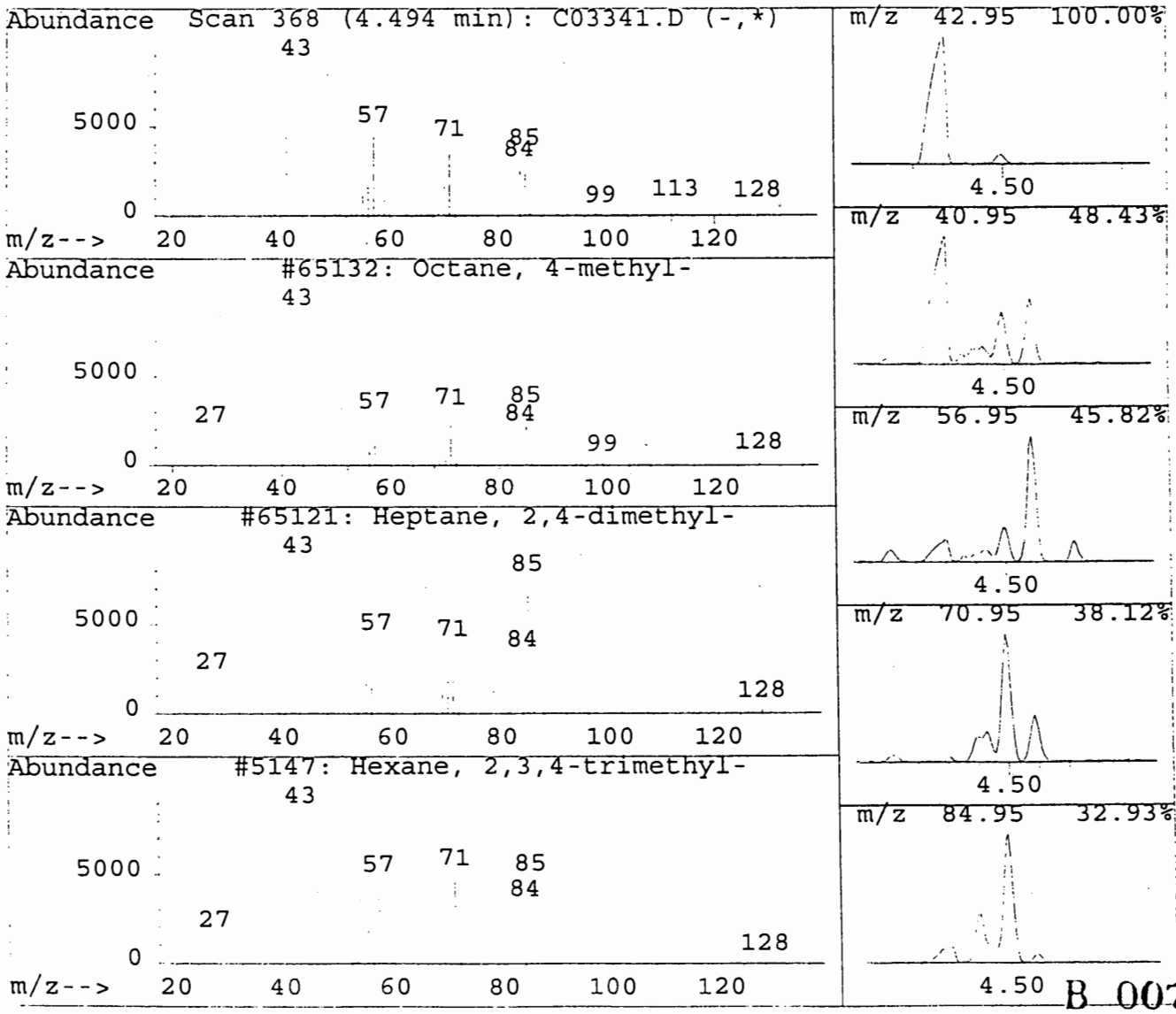
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.49	73.57 ng	1256993	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	58
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	58
3	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	50
4	Dodecane, 5-methyl-	184	C13H28	017453-93-9	50
5	Ether, hexyl pentyl	172	C11H24O	032357-83-8	50



B 0073

Library Search Compound Report

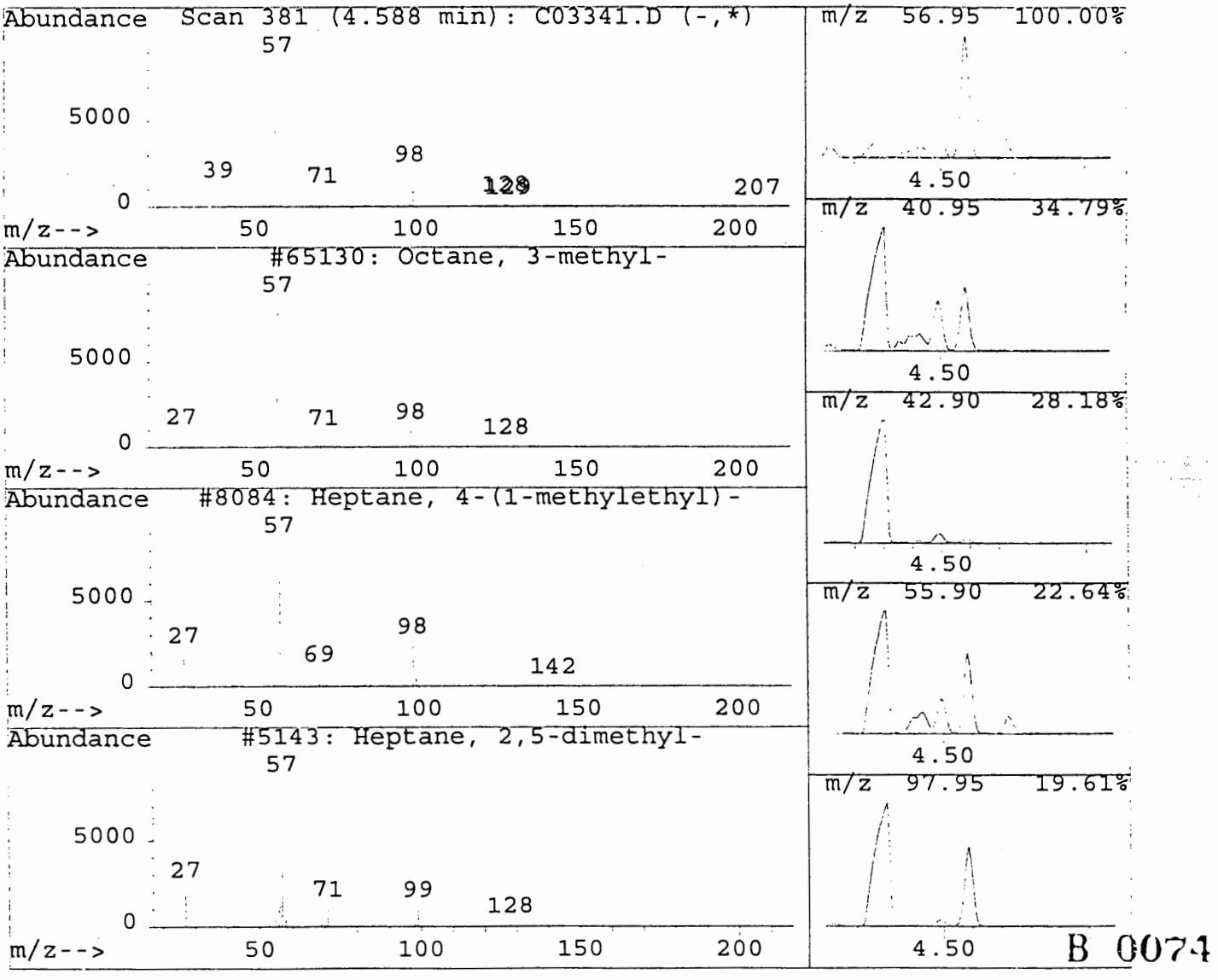
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

Vial: 6
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
4.59	85.77 ng	1465429	1,4-Dichlorobenzene-d4	6.28

Hit# of 20	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	90
2	Heptane, 4-(1-methylethyl)-	142	C10H22	052896-87-4	64
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	62
4	Heptane, 4-propyl-	142	C10H22	003178-29-8	59
5	Undecane, 6-methyl-	170	C12H26	017302-33-9	45



B 0074

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

LFB(1/24)

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: LFB(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03342.D

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108952	Phenol	780	
111444	bis(2-Chloroethyl)ether	770	
95578	2-Chlorophenol	720	
541731	1,3-Dichlorobenzene	670	
106467	1,4-Dichlorobenzene	690	
95501	1,2-Dichlorobenzene	670	
95487	2-Methylphenol	600	
108601	2,2'-oxybis(1-Chloropropane)	630	
106445	4-Methylphenol	630	
621647	N-Nitroso-di-n-propylamine	710	
67721	Hexachloroethane	700	
98953	Nitrobenzene	690	
78591	Isophorone	690	
88755	2-Nitrophenol	790	
105679	2,4-Dimethylphenol	160	J
111911	bis(2-Chloroethoxy)methane	810	
120832	2,4-Dichlorophenol	820	
120821	1,2,4-Trichlorobenzene	750	
91203	Naphthalene	740	
106478	4-Chloroaniline	330	J
87683	Hexachlorobutadiene	760	
59507	4-Chloro-3-methylphenol	860	
91576	2-Methylnaphthalene	750	
77474	Hexachlorocyclopentadiene	600	
88062	2,4,6-Trichlorophenol	850	
95954	2,4,5-Trichlorophenol	840	
91587	2-Chloronaphthalene	800	
88744	2-Nitroaniline	810	J
131113	Dimethylphthalate	810	
208968	Acenaphthylene	820	
606202	2,6-Dinitrotoluene	800	
99092	3-Nitroaniline	490	J
83329	Acenaphthene	810	
51285	2,4-Dinitrophenol	780	J
100027	4-Nitrophenol	930	
132649	Dibenzofuran	810	
121142	2,4-Dinitrotoluene	800	

B 0075

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFB(1/24)

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: LFB(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03342.D

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84662	Diethylphthalate	840	
86737	Fluorene	840	
7005723	4-Chlorophenyl-phenylether	830	
100016	4-Nitroaniline	800	J
534521	4,6-Dinitro-2-methylphenol	800	J
86306	N-Nitrosodiphenylamine	1200	
101553	4-Bromophenyl-phenylether	760	
118741	Hexachlorobenzene	790	
87865	Pentachlorophenol	730	J
85018	Phenanthrene	820	
120127	Anthracene	850	
86748	Carbazole	950	
84742	Di-n-butylphthalate	780	
206440	Fluoranthene	820	
129000	Pyrene	860	
85687	Butylbenzylphthalate	870	
56553	Benzo[a]anthracene	800	
91941	3,3'-Dichlorobenzidine	350	
218019	Chrysene	1100	
117817	bis(2-Ethylhexyl)phthalate	810	
117840	Di-n-octylphthalate	800	
205992	Benzo[b]fluoranthene	840	
207089	Benzo[k]fluoranthene	900	
50328	Benzo[a]pyrene	820	
193395	Indeno[1,2,3-cd]pyrene	920	
53703	Dibenz[a,h]anthracene	1200	
191242	Benzo[g,h,i]perylene	1100	

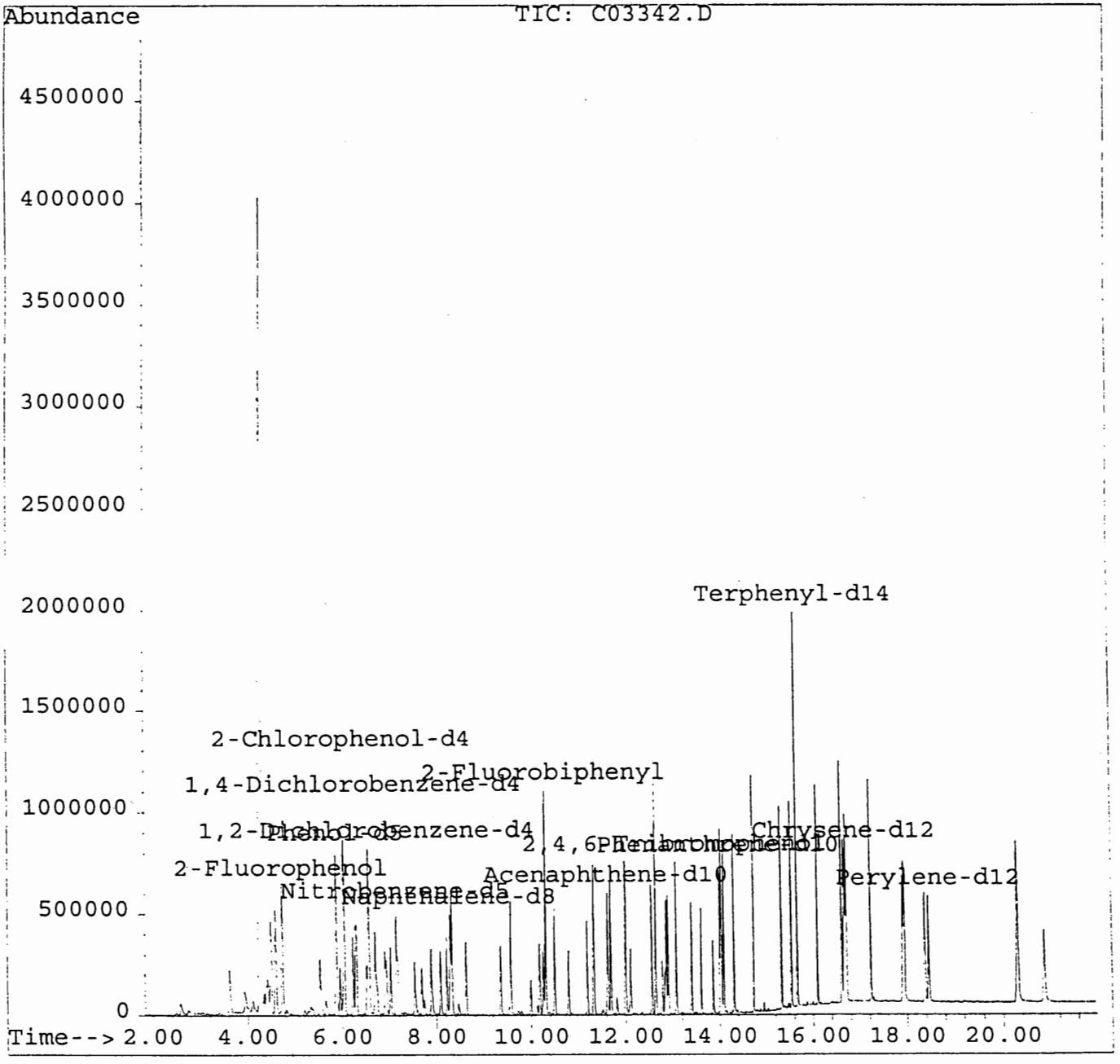
B 0076

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03342.D
Acq On : 18 Feb 97 6:14 pm
Sample : LFB(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML
Quant Time: Feb 19 11:28 1997

Vial: 7
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Last Update : Tue Feb 18 16:05:46 1997
Response via : Single Level Calibration



B 0077

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03342.D Vial: 7
Acq On : 18 Feb 97 18:14 Operator: ANNMARIE
Sample : LFB(1/24) Inst : 5972 - GC
Misc : H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00
Quant Time: Feb 19 11:28 1997

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : CLP BNA Calibration
Last Update : Wed Feb 19 10:20:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03337.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	106980	40.00	ng	0.00
17) Naphthalene-d8	8.29	136	386238#	40.00	ng	0.00
31) Acenaphthene-d10	11.62	164	194411	40.00	ng	0.00
52) Phenanthrene-d10	14.01	188	328469#	40.00	ng	0.00
63) Chrysene-d12	16.69	240	278118	40.00	ng	0.00
71) Perylene-d12	18.45	264	308321	40.00	ng	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.72	112	371017	109.01	ng	72.67%
3) Phenol-d5	5.87	99	438156	113.77	ng	75.84%
6) 2-Chlorophenol-d4	6.03	132	429876	114.24	ng	76.16%
10) 1,2-Dichlorobenzene-d4	6.55	152	179634	76.74	ng	76.74%
18) Nitrobenzene-d5	7.15	82	248146	86.24	ng	86.24%
35) 2-Fluorobiphenyl	10.31	172	565162	93.88	ng	93.88%
51) 2,4,6-Tribromophenol	13.09	330	110888	129.72	ng	86.48%
65) Terphenyl-d14	15.67	244	592819	99.33	ng	99.33%
Target Compounds						Qvalue
4) Phenol	5.88	94	166959	47.02	ng	# 83
5) bis(2-Chloroethyl)ether	5.95	93	144584	46.00	ng	89
7) 2-Chlorophenol	6.06	128	153286	43.10	ng	97
8) 1,3-Dichlorobenzene	6.22	146	155250	40.39	ng	100
9) 1,4-Dichlorobenzene	6.30	146	162651	41.31	ng	99
11) 1,2-Dichlorobenzene	6.57	146	149642	40.33	ng	97
12) 2-Methylphenol	6.69	108	104883	36.00	ng	95
13) 2,2'-oxybis(1-Chloropropan	6.71	45	125296	37.51	ng	# 22
14) 4-Methylphenol	6.90	108	115153	37.97	ng	99
15) N-Nitroso-di-n-propylamine	6.93	70	81263	42.54	ng	# 86
16) Hexachloroethane	7.02	117	64316	41.90	ng	# 57
19) Nitrobenzene	7.17	77	117223	41.64	ng	98
20) Isophorone	7.54	82	210586	41.31	ng	95
21) 2-Nitrophenol	7.69	139	84991	47.48	ng	98
22) 2,4-Dimethylphenol	7.73	107	24537	9.75	ng	89
23) bis(2-Chloroethoxy)methane	7.89	93	153946	48.63	ng	96
24) 2,4-Dichlorophenol	8.08	162	114683	49.21	ng	98
25) 1,2,4-Trichlorobenzene	8.21	180	117785	44.76	ng	99
26) Naphthalene	8.32	128	438627	44.49	ng	# 97
27) 4-Chloroaniline	8.47	127	34545	19.85	ng	99
28) Hexachlorobutadiene	8.63	225	58800	45.33	ng	99
29) 4-Chloro-3-methylphenol	9.36	107	128881	51.37	ng	99
30) 2-Methylnaphthalene	9.57	142	272787	44.74	ng	100
32) Hexachlorocyclopentadiene	10.00	237	40685	36.18	ng	97
33) 2,4,6-Trichlorophenol	10.18	196	76201	50.82	ng	97

(#) = qualifier out of range (m) = manual integration

B 0078

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03342.D
Acq On : 18 Feb 97 18:14
Sample : LFB(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML
Quant Time: Feb 19 11:28 1997

Vial: 7
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : CLP BNA Calibration
Last Update : Wed Feb 19 10:20:52 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\C03337.D

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34)	2,4,5-Trichlorophenol	10.26	196	88496	50.13 ng		99
36)	2-Chloronaphthalene	10.50	162	250507	48.07 ng		98
37)	2-Nitroaniline	10.79	65	71402	48.41 ng		93
38)	Dimethylphthalate	11.19	163	308920	48.73 ng		99
39)	Acenaphthylene	11.32	152	417824	49.37 ng		98
40)	2,6-Dinitrotoluene	11.34	165	73183	48.07 ng		94
41)	3-Nitroaniline	11.61	138	52974	29.11 ng		97
42)	Acenaphthene	11.68	153	259045	48.33 ng		100
43)	2,4-Dinitrophenol	11.81	184	21563	46.61 ng		94
44)	4-Nitrophenol	12.00	109	54700	55.54 ng	#	1
45)	Dibenzofuran	12.00	168	362378	48.76 ng	#	60
46)	2,4-Dinitrotoluene	12.11	165	102687	48.24 ng		95
47)	Diethylphthalate	12.56	149	342965	50.54 ng		99
48)	Fluorene	12.64	166	281595	50.58 ng		100
49)	4-Chlorophenyl-phenylether	12.64	204	131699	49.56 ng		95
50)	4-Nitroaniline	12.78	138	84264	47.77 ng		98
53)	4,6-Dinitro-2-methylphenol	12.84	198	45338	48.09 ng		100
54)	N-Nitrosodiphenylamine	12.87	169	191830	69.54 ng		99
55)	4-Bromophenyl-phenylether	13.40	248	73176	45.63 ng		96
56)	Hexachlorobenzene	13.62	284	83974	47.63 ng		96
57)	Pentachlorophenol	13.87	266	50193	43.61 ng	#	22
58)	Phenanthrene	14.04	178	440916	49.06 ng		99
59)	Anthracene	14.09	178	416194	51.28 ng		99
60)	Carbazole	14.31	167	447168	57.15 ng		98
61)	Di-n-butylphthalate	14.73	149	614028	47.09 ng		99
62)	Fluoranthene	15.33	202	486847	49.44 ng		96
64)	Pyrene	15.55	202	488593	51.89 ng		96
66)	Butylbenzylphthalate	16.10	149	298649	52.44 ng		96
67)	Benzo[a]anthracene	16.66	228	374324	47.90 ng		99
68)	3,3'-Dichlorobenzidine	16.63	252	41286	21.12 ng	#	96
69)	Chrysene	16.71	228	388417	68.41 ng		98
70)	bis(2-Ethylhexyl)phthalate	16.61	149	406734	48.87 ng		98
72)	Di-n-octylphthalate	17.23	149	702030	47.73 ng		99
73)	Benzo[b]fluoranthene	17.91	252	388170m	50.38 ng		98
74)	Benzo[k]fluoranthene	17.94	252	382850m	54.30 ng		95
75)	Benzo[a]pyrene	18.37	252	345250	49.27 ng		98
76)	Indeno[1,2,3-cd]pyrene	20.31	276	435381	55.08 ng		97
77)	Dibenz[a,h]anthracene	20.30	278	357488	69.74 ng		98
78)	Benzo[g,h,i]perylene	20.88	276	350844	67.41 ng		98

AA 2/19/97

B 0079

(#) = qualifier out of range (m) = manual integration

H2M LABS, INC.

SUMMARY OF CALCULATIONS PERFORMED FOR BASE-NEUTRAL/ACID EXTRACTABLES

WATER: $$(ug/l) = \frac{[A(x)]\,[IS]\,[V(t)]\,[DF]}{[A(is)]\,[RRF]\,[V(o)]\,[V(i)]}$$

SOIL: $$(ug/kg) = \frac{[A(x)]\,[IS]\,[V(t)]\,[DF]\,[2.0]}{[A(is)]\,[RRF]\,[V(i)]\,[W(s)]\,[D]}$$

A(x) = Area of characteristic ion of analyte

A(is) = Area of characteristic ion of internal standard

[IS] = Concentration of internal standard injected (ng)

RRF = Relative response factor of analyte

V(t) = Final concentrated volume of extract (ul)

V(o) = Initial volume of sample (ml)

V(i) = Volume of sample injected (ul)

DF = Dilution factor

W(s) = Weight of sample extracted (g)

D = $\frac{100 - \%\ \text{moisture} = \%\ \text{solids}}{100}$

2.0 = GPC factor (soils only). The factor of 2.0 in the numerator is used to account for the fact that only a 5 ml aliquot (from 10 ml) is subjected to GPC cleanup. This means that the final extract which is analyzed is representative of HALF the total sample.

Generally the volume injected is 2 ul, and the total extract volume is 1000 ul for water and 500 ul for soil. The amount of each internal standard injected in 2 ul is 40 ng.

V. DOCUMENTATION FOR SEMIVOLATILES

A. PREPARATION LOG BOOK PAGES
B. INSTRUMENT RUN LOG BOOK PAGES
C. REPORTING ANALYST SIGNATURE PAGE

[illegible] LABS, INC.

SEMI-VOLATILES SAMPLE PREPARATION

EXTRACTION DATE: 1-24-97 SDG #: _____ DELIV. CODE: AC 70, RT-70 TEST CODE: XBATCL

MATRIX: WATER _____ SOIL ✓ SLUDGE _____ OTHER (SPECIFY) _____

EXTR. METHOD: SEPF ____ CONT ____ TUMB ____ SONC ✓ SOXH ____ TISS ____ BLEND ____ DIL ____ SOLID PHASE ____

SAMPLES

	LAB ID #	CUSTOMER #	INTL VOL/WT	pH	GPC COL #	COMMENTS/ SAMPLE DESCRIPTION
1	9702028		30g	8.0	1	
2	9702231		30g	6.5	1	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

pH CALIBRATION:
READING OF 4.0 BUFFER (3.9-4.1) _____
READING OF 10.0 BUFFER (9.9-10.1)

BLANKS	VOL/ WT	GPC COL	SPIKE SOL #	LOT	VOL uL	VERIF. BY
B1- 1-24		1				
B2-						
B3-						
SPIKED SAMPLES						
MS						
MSD						
MS						
MSD						
SPIKED BLANKS						
MSB-						
MSBD-						
LFB1- 1-24		1	~~[illegible]~~	~~[illegible]~~	500	1/24 LBJ
LFB2-			QC625	B	250	
1)	SURR SOL.		SS912.1	A	500	
2)	SURR SOL.					

a) Run MSB for AC, AS 8270/PP8080 with MS sol.
b) Run LFB for all codes with QC sol except AC
c) Spike samples for AC and any 8270/PP8080 w/ MS sol., all others with QC sol.

		DATE	TIME	FINAL VOL	ANALYST	COMMENTS
EXTR. OR DIL.	START	1-24			LBJ	
	END	1-24		1000ml	LBJ	
CONC. 1		1-24		10.0ml	LBJ	KD S-EVAP TURB
CONC. 2						KD N-EVAP TURB

		DATE	INIT VOL	FINAL VOL	ANALYST	COMMENTS
CLEAN	GPC	1/24	10ml	1ml		
	H2SO4					
	SULFUR					
	FLORISIL					
	OTHER					

REAGENTS

	LOT #		LOT #	PREP DATE
CH2C12		FLORISIL		
HEXANE		Na2S04		
ACETONE		NaCl		

Supervisor Signature: _____ Date: _____

B 0052

P 0097

H2M LABS, INC.

	LOT #	SOL'N ID
Surr.		
I.S.		
M.S.		
QC Check		

SEMI-VOLATILE

SCAN: BNA **INSTRUMENT:** H5972 **COLUMN:** RTX-5MS

ANALYSTS SIGNATURE	DATE	RUN #	UL	SAMPLE #	TIME INJ.	INTERNAL STD: UL	SOLN	VOL	COMMENTS
D Altemose	2/2/97	C03242	2	50 ng DFTPP	1203	—	MSV66C	—	
↓	↓	C03243	↓	SSTD020	1218	10	BN392	1.0	CLP2.m
		C03244		SSTD050	1325	↓	↓	↓	
		C03245		SSTD080	1356				
		C03246		SSTD120	1428				
↓	↓	C03247	↓	SSTD160	1459	↓	↓	↓	
D Altemose	2/2/97	C03248	2	50 ng DFTPP	1448	—	MSV66C	—	
↓	↓	C03249	↓	SSTD050	1502	10	BN392	1.0	
		C03250		SBLK(1/31)W	1536	↓	↓	↓	
		C03251		MSB(1/31)W	1610				
		C03252		6329	1643				9702472
		C03253		6329 MS	1717				9702472MS
		C03254		6329 MSD	1751				9702472MSD
		C03255		6330	1824	↓		↓	9702473
		C03256		SBLK(1/31)S	1258	5		05	
		C03257		MSB(1/31)S	1933	↓		↓	
		C03258		GFC 01K(2/3)	2007				
		C03259		6342	2041				9702481
		C03260		6342 MS	2116				9702481MS
		C03261		6342 MSD	2150	↓		↓	9702481MSD
		C03262		6329 DL(1:2)	2224	10		1.0	9702472DL
↓	↓	C03263	↓	6329 DL(1:4)	2259	↓	↓	↓	9702472DL

H2M LABS, INC.

	LOT #	SOL'N ID
Surr.		
I.S.		
M.S.		
QC Check		

SEMI-VOLATILE

SCAN: BNA **INSTRUMENT:** H5972 **COLUMN:** RTX-5MS

ANALYSTS SIGNATURE	DATE	RUN #	UL	SAMPLE #	TIME INJ.	INTERNAL STD: UL	SOLN	VOL	COMMENTS
J. Altman	2/16/97 OK	C03330	2	MW-13A	0135	10	BN392	1.0	9702612
	OK	C03331		MW-13I	0207				9702613
	OK	C03332		Fld. BLK. (1/28)	0239				9702614
	*	C03333		MW-34-60	0311		DIL 1:2		9702860
	OK	C03334		MW-19-60	0344				9702862
	OK	C03335		Fld. BLK (1/30)	0417				9702863
J. Altman	2/18/97	C03336	2	50 ng AFTM	1521	–	M1666C	–	
		C03337		SBLK050	1536	10	BN392	1.0	
	*	C03338		SBLK (1/23)	1607				RIN-bad inj.
	OK	C03339		MSB (1/23)	1639				
	OK	C03340		LFB (1/23)	1710				
	OK	C03341		SBLK (1/24)	1743	5		0.5	
	OK	C03342		LFB (1/24)	1814				
	OK	C03343		MW-34-60 ΔL (1:2)	1846	10		1.0	9702860ΔL
	OK	C03344		0017	1917				9701857
	OK	C03345		0017 MS	1949				9701857 MS
	OK	C03346		0017 MSD	2021				9701857 MSD
	OK	C03347		0018	2052				9701858
	OK	C03348		B60214	2124	5		0.5	9702028
	OK	C03349		ML #36	2156				9702231
	OK	C03350		SBLK (2/10)	2227	10		1.0	
	OK	C03351		LFB (2/10)	2258				

H2M LABS, INC.

SDG # NJECS-0122

SCAN BNA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: Annmarie Ackerman

Date: 2/19/97

B 0085

Analytical Data Package For

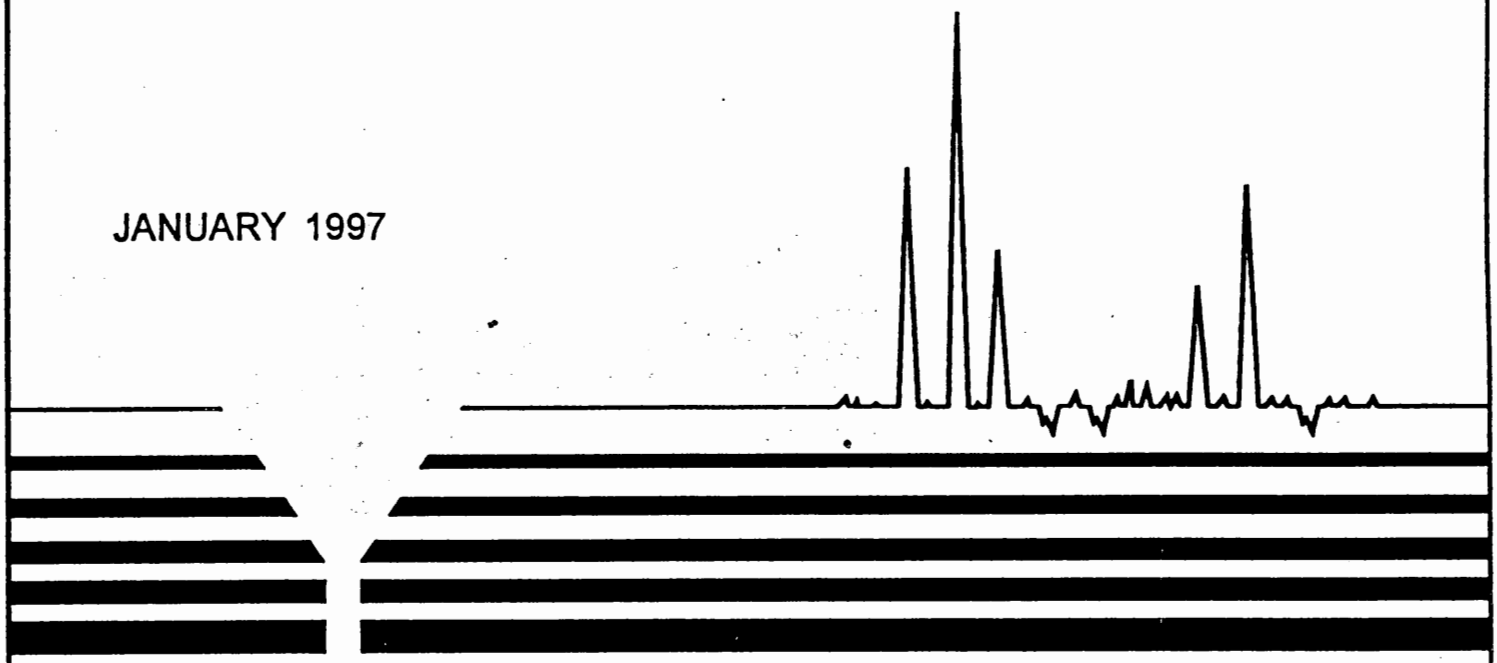
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0
CONTRACT #: C003180
CASE #: RA096 SDG #: 0122

Water and Soil Samples
RECEIVED: January 23, 1997

METALS DATA

JANUARY 1997



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

RACHE
0122

METALS

TABLE OF CONTENTS

I. REPORTS

II. QC SUMMARY

III. RAW DATA

IV. DOCUMENTATION

3/4/97

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

SOW No.: 9/93 CLP

Sample No.	Lab Sample ID.
B223AX	9702041
B224AX	9702043
B225AX	9702045
B225AXD	9702045D
B225AXS	9702045S
B60219	9702033
B60219D	9702033D
B60219S	9702033S
B60223	9702040
B60224	9702042
B60225	9702044
B60225D	9702044D
B60225S	9702044S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stanley Isaacson Name: STANLEY ISAACSON

Date: 3/3/97 Title: LAB MANAGER

I. REPORTS FOR METALS

H2M LABS, INC.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

E - The reported value is estimated because of the presence of interference. An explanatory not is included in the SDG narrative.

M - Duplicate injection precision not met.

N - Matrix spike sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

P - Analyzed by ICP.
A - Analyzed by Flame AA.
F - Analyzed by Furnace AA.
CV - Analyzed by Manual Cold Vapor techniques.
AV - Analyzed by Automated Cold Vapor techniques.
C - Analyzed by Manual Spectrophotometric Method.
CA- Analyzed by Midi-distillation Spectrophotometric Method.
NR - Analyte not Required.

H 0034

LMS Sample Designation

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

SAMPLE NO.

B60219

INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): SOIL Lab Sample ID: 9702033

Level (low/med): LOW Date Received: 01/23/97

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	394			P
7440-36-0	Antimony	0.58	U		P
7440-38-2	Arsenic	0.95	B		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.12	B		P
7440-70-2	Calcium	73.5	B		P
7440-47-3	Chromium	7.3		*	P
7440-48-4	Cobalt	0.33	B		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	1800		*	P
7439-92-1	Lead	1.5			P
7439-95-4	Magnesium	48.8	B		P
7439-96-5	Manganese	3.5			P
7439-97-6	Mercury	0.06	B		CV
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium	40.7	B		P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	1.3	B		P
7440-23-5	Sodium	30.5	B		P
7440-28-0	Thallium	0.49	B		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	3.8	B		P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
B60219
TOTAL METALS
DATE REPORTED: FEBRUARY 28, 1997

M 0025

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B60223

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702040

Level (low/med): LOW Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	211000			P
7440-36-0	Antimony	56.0	U	N	P
7440-38-2	Arsenic	1500			P
7440-39-3	Barium	852			P
7440-41-7	Beryllium	18.9			P
7440-43-9	Cadmium	8.0	U		P
7440-70-2	Calcium	44700	B		P
7440-47-3	Chromium	4710		N	P
7440-48-4	Cobalt	73.1			P
7440-50-8	Copper	1490			P
7439-89-6	Iron	2550000			P
7439-92-1	Lead	438		E	P
7439-95-4	Magnesium	50400	B		P
7439-96-5	Manganese	6370			P
7439-97-6	Mercury	3.4			CV
7440-02-0	Nickel	447			P
7440-09-7	Potassium	89200			P
7782-49-2	Selenium	34.4	B		P
7440-22-4	Silver	2740			P
7440-23-5	Sodium	44000			P
7440-28-0	Thallium	105	B		P
7440-62-2	Vanadium	1730			P
7440-66-6	Zinc	15900			P
	Cyanide				

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: DK.YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
B60223
TOTAL METALS
DATE REPORTED: FEBRUARY 28, 1997
ARTIFACT: SEDIMENTS 2 MM - 12 MM

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B223AX

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702041

Level (low/med): LO Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.6	U		P
7440-36-0	Antimony	2.8	U		P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	28.7	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	0.40	U		P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	1.5	B	E	P
7439-89-6	Iron	4550			P
7439-92-1	Lead	0.70	U		P
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	407			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	26.6	B		P
7440-09-7	Potassium	66100			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	34000			P
7440-28-0	Thallium	3.3	B		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	557			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
B60223A
DISSOLVED METALS
DATE REPORTED: FEBRUARY 28, 1997

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

SAMPLE NO.

B60224

INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702042

Level (low/med): LOW Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	68200			P
7440-36-0	Antimony	6.0	B	N	P
7440-38-2	Arsenic	222			P
7440-39-3	Barium	356			P
7440-41-7	Beryllium	4.8	B		P
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium	48900			P
7440-47-3	Chromium	612		N	P
7440-48-4	Cobalt	33.7	B		P
7440-50-8	Copper	273			P
7439-89-6	Iron	313000			P
7439-92-1	Lead	75.5		E	P
7439-95-4	Magnesium	22900			P
7439-96-5	Manganese	1550			P
7439-97-6	Mercury	0.52			CV
7440-02-0	Nickel	161			P
7440-09-7	Potassium	19700			P
7782-49-2	Selenium	9.4	B		P
7440-22-4	Silver	281			P
7440-23-5	Sodium	33100			P
7440-28-0	Thallium	13.6	B		P
7440-62-2	Vanadium	304			P
7440-66-6	Zinc	4450			P
	Cyanide				

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
B60224
TOTAL METALS
DATE REPORTED: FEBRUARY 28, 1997
ARTIFACT: SEDIMENTS 2 MM - 12 MM

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B224AX

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702043

Level (low/med): LO Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.6	U		P
7440-36-0	Antimony	2.8	U		P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	41.4	B		P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.63	B		P
7440-70-2	Calcium	43900			P
7440-47-3	Chromium	0.40	U		P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	1.1	B	E	P
7439-89-6	Iron	10700			P
7439-92-1	Lead	0.70	U		P
7439-95-4	Magnesium	19000			P
7439-96-5	Manganese	402			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	30.6	B		P
7440-09-7	Potassium	12300			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	31400			P
7440-28-0	Thallium	4.0	B		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	1250			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
B60224A
DISSOLVED METALS
DATE REPORTED: FEBRUARY 28, 1997

M 0079

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

SAMPLE NO.

B60225

INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702044

Level (low/med): LOW Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	94900			P
7440-36-0	Antimony	7.5	B	N	P
7440-38-2	Arsenic	136			P
7440-39-3	Barium	243			P
7440-41-7	Beryllium	6.4			P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	20800			P
7440-47-3	Chromium	575		N	P
7440-48-4	Cobalt	32.1	B		P
7440-50-8	Copper	525			P
7439-89-6	Iron	235000			P
7439-92-1	Lead	80.7		E	P
7439-95-4	Magnesium	105000			P
7439-96-5	Manganese	1040			P
7439-97-6	Mercury	0.56			CV
7440-02-0	Nickel	252			P
7440-09-7	Potassium	29500			P
7782-49-2	Selenium	9.8			P
7440-22-4	Silver	91.7			P
7440-23-5	Sodium	66000			P
7440-28-0	Thallium	6.8	B		P
7440-62-2	Vanadium	249			P
7440-66-6	Zinc	4040			P
	Cyanide				

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

B60225
TOTAL METALS
DATE REPORTED: FEBRUARY 28, 1997
ARTIFACT: SEDIMENTS 2 MM - 12 MM

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H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B225AX

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Lab Sample ID: 9702045

Level (low/med): LO Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8680			P
7440-36-0	Antimony	2.8	U		P
7440-38-2	Arsenic	5.2	B		P
7440-39-3	Barium	73.7	B		P
7440-41-7	Beryllium	2.4	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	21700			P
7440-47-3	Chromium	23.8			P
7440-48-4	Cobalt	23.6	B		P
7440-50-8	Copper	37.9		E	P
7439-89-6	Iron	48600			P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	125000			P
7439-96-5	Manganese	833			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	189			P
7440-09-7	Potassium	30000			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	72700			P
7440-28-0	Thallium	3.7	B		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5140			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:
B60225A
DISSOLVED METALS
DATE REPORTED: FEBRUARY 28, 1997

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II. QC SUMMARY FOR METALS

A. INITIAL AND CONTINUING CALIBRATION VERIFICATION
B. CRDL STANDARD FOR AA AND ICP
C. METHOD BLANK
D. ICP INTERFERENCE CHECK SAMPLE
E. SPIKE SAMPLE RECOVERY
F. POST DIGEST SPIKE SAMPLE RECOVERY
G. DUPLICATES
H. LABORATORY CONTROL SAMPLE
I. STANDARD ADDITION RESULTS
J. ICP SERIAL DILUTIONS
K. INSTRUMENT DETECTION LIMITS
L. ICP INTERELEMENT CORRECTION FACTORS
M. ICP LINEAR RANGES
N. PREPARATION LOGS
O. ANALYSIS RUN LOGS

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	50000.0	50173.57	100.3	50000.0	49631.73	99.3	50538.40	101.1	P
Antimony	1000.0	1030.12	103.0	1000.0	1017.42	101.7	1002.02	100.2	P
Arsenic	500.0	517.26	103.5	500.0	516.88	103.4	496.73	99.3	P
Barium	2500.0	2616.57	104.7	2500.0	2569.30	102.8	2636.87	105.5	P
Beryllium	2500.0	2626.90	105.1	2500.0	2612.60	104.5	2527.30	101.1	P
Cadmium	2500.0	2558.77	102.4	2500.0	2572.40	102.9	2450.17	98.0	P
Calcium	50000.0	48237.17	96.5	50000.0	48127.13	96.3	45861.60	91.7	P
Chromium	2500.0	2565.73	102.6	2500.0	2550.50	102.0	2479.60	99.2	P
Cobalt	2500.0	2495.47	99.8	2500.0	2481.70	99.3	2386.13	95.4	P
Copper	2500.0	2568.10	102.7	2500.0	2522.30	100.9	2584.13	103.4	P
Iron	50000.0	49470.17	98.9	50000.0	49385.57	98.8	48374.97	96.7	P
Lead	500.0	476.50	95.3	500.0	474.48	94.9	452.92	90.6	P
Magnesium	50000.0	48779.67	97.6	50000.0	48803.87	97.6	47077.80	94.2	P
Manganese	2500.0	2521.07	100.8	2500.0	2501.23	100.0	2439.93	97.6	P
Mercury	6.0	6.05	100.8	6.0	6.17	102.8	6.53	108.8	CV
Nickel	2500.0	2488.37	99.5	2500.0	2494.80	99.8	2416.33	96.7	P
Potassium	10000.0	10160.73	101.6	10000.0	10207.60	102.1	10177.83	101.8	P
Selenium	500.0	512.14	102.4	500.0	511.76	102.4	492.60	98.5	P
Silver	1000.0	1023.27	102.3	1000.0	1010.14	101.0	1016.07	101.6	P
Sodium	10000.0	10136.60	101.4	10000.0	10143.87	101.4	10127.33	101.3	P
Thallium	500.0	497.26	99.5	500.0	497.63	99.5	487.70	97.5	P
Vanadium	2500.0	2541.43	101.7	2500.0	2517.20	100.7	2488.67	99.5	P
Zinc	2500.0	2638.60	105.5	2500.0	2625.00	105.0	2557.97	102.3	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				50000.0	50723.63	101.4	50614.33	101.2	P
Antimony				1000.0	1021.46	102.1	1013.23	101.3	P
Arsenic				500.0	504.22	100.8	504.87	101.0	P
Barium				2500.0	2638.53	105.5	2637.87	105.5	P
Beryllium				2500.0	2559.93	102.4	2563.47	102.5	P
Cadmium				2500.0	2486.90	99.5	2487.73	99.5	P
Calcium				50000.0	46451.87	92.9	46387.53	92.8	P
Chromium				2500.0	2508.60	100.3	2511.63	100.5	P
Cobalt				2500.0	2414.73	96.6	2411.63	96.5	P
Copper				2500.0	2590.73	103.6	2588.70	103.5	P
Iron				50000.0	49355.67	98.7	48925.17	97.9	P
Lead				500.0	461.08	92.2	460.64	92.1	P
Magnesium				50000.0	47636.83	95.3	47818.87	95.6	P
Manganese				2500.0	2467.63	98.7	2466.77	98.7	P
Mercury				6.0	6.38	106.3	6.14	102.3	CV
Nickel				2500.0	2444.00	97.8	2443.83	97.8	P
Potassium				10000.0	10133.07	101.3	10224.67	102.2	P
Selenium				500.0	500.34	100.1	499.16	99.8	P
Silver				1000.0	1023.97	102.4	1023.08	102.3	P
Sodium				10000.0	10073.23	100.7	10195.67	102.0	P
Thallium				500.0	488.82	97.8	493.73	98.7	P
Vanadium				2500.0	2505.60	100.2	2504.90	100.2	P
Zinc				2500.0	2591.60	103.7	2585.80	103.4	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

1 of 4

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony	1000.0	1014.89	101.5	1000.0	1022.72	102.3	1044.00	104.4	P
Arsenic	500.0	484.22	96.8	500.0	497.42	99.5	503.23	100.6	P
Barium									
Beryllium									
Cadmium	2500.0	2483.70	99.3	2500.0	2566.37	102.7	2583.47	103.3	P
Calcium	50000.0	52612.70	105.2	50000.0	54013.53	108.0	54454.17	108.9	P
Chromium	2500.0	2507.73	100.3	2500.0	2542.90	101.7	2568.17	102.7	P
Cobalt									
Copper	2500.0	2499.53	100.0	2500.0	2445.77	97.8	2512.40	100.5	P
Iron	50000.0	50835.83	101.7	50000.0	51438.90	102.9	51816.93	103.6	P
Lead	500.0	470.56	94.1	500.0	487.07	97.4	491.25	98.2	P
Magnesium	50000.0	48935.00	97.9	50000.0	50736.97	101.5	51064.77	102.1	P
Manganese	2500.0	2492.33	99.7	2500.0	2518.53	100.7	2547.23	101.9	P
Mercury									
Nickel									
Potassium									
Selenium	500.0	487.12	97.4	500.0	495.45	99.1	502.66	100.5	P
Silver	1000.0	1001.91	100.2	1000.0	992.89	99.3	1015.80	101.6	P
Sodium									
Thallium	500.0	481.97	96.4	500.0	489.75	98.0	494.04	98.8	P
Vanadium	2500.0	2466.30	98.7	2500.0	2483.30	99.3	2516.80	100.7	P
Zinc	2500.0	2548.20	101.9	2500.0	2595.83	103.8	2637.20	105.5	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony				1000.0	1006.10	100.6			P
Arsenic				500.0	484.19	96.8			P
Barium									
Beryllium									
Cadmium				2500.0	2470.80	98.8			P
Calcium				50000.0	52403.40	104.8			P
Chromium				2500.0	2470.00	98.8			P
Cobalt									
Copper				2500.0	2438.23	97.5			P
Iron				50000.0	49588.33	99.2			P
Lead				500.0	470.92	94.2			P
Magnesium				50000.0	49367.37	98.7			P
Manganese				2500.0	2455.93	98.2			P
Mercury									
Nickel									
Potassium									
Selenium				500.0	483.41	96.7			P
Silver				1000.0	987.84	98.8			P
Sodium									
Thallium				500.0	477.50	95.5			P
Vanadium				2500.0	2427.57	97.1			P
Zinc				2500.0	2540.37	101.6			P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	2500.0	2574.07	103.0	2500.0	2585.13	103.4	2592.27	103.7	P
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

M C017

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron				2500.0	2757.03	110.3	2599.77	104.0	P
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	2500.0	2502.57	100.1	2500.0	2547.03	101.9	2451.13	98.0	P
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron				2500.0	2463.03	98.5			P
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

AA CRDL Standard Source: HIGH PURITY

ICP CRDL Standard Source: HIGH PURITY

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum					-27.77		-16.83	
Antimony				120.0	122.51	102.1	126.48	105.4
Arsenic				20.0	19.07	95.4	19.39	97.0
Barium					0.13		0.00	
Beryllium				10.0	10.30	103.0	10.37	103.7
Cadmium				10.0	10.63	106.3	10.33	103.3
Calcium					-24.43		-25.17	
Chromium				20.0	20.47	102.4	20.47	102.4
Cobalt				100.0	102.57	102.6	100.83	100.8
Copper				50.0	49.23	98.5	51.37	102.7
Iron					-7.70		-2.87	
Lead				6.0	5.49	91.5	6.01	100.2
Magnesium					-14.53		-5.17	
Manganese				30.0	30.83	102.8	31.13	103.8
Mercury								
Nickel				80.0	83.27	104.1	83.90	104.9
Potassium					51.10		57.50	
Selenium				10.0	9.13	91.3	9.43	94.3
Silver				20.0	19.32	96.6	19.82	99.1
Sodium					33.77		46.63	
Thallium				20.0	21.77	108.8	21.03	105.2
Vanadium				100.0	99.77	99.8	101.40	101.4
Zinc				40.0	42.13	105.3	42.77	106.9

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

AA CRDL Standard Source: HIGH PURITY

ICP CRDL Standard Source: HIGH PURITY

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	123.77	103.1	125.66	104.7
Arsenic				20.0	20.77	103.8	20.81	104.0
Barium								
Beryllium								
Cadmium				10.0	10.83	108.3	10.90	109.0
Calcium					30.83		29.83	
Chromium				20.0	21.07	105.4	20.93	104.6
Cobalt								
Copper				50.0	49.77	99.5	50.53	101.1
Iron					8.00		106.33	
Lead				6.0	6.79	113.2	6.35	105.8
Magnesium					8.53		5.73	
Manganese				30.0	31.30	104.3	31.63	105.4
Mercury								
Nickel								
Potassium								
Selenium				10.0	9.82	98.2	9.43	94.3
Silver				20.0	19.57	97.8	19.55	97.8
Sodium								
Thallium				20.0	20.25	101.2	22.05	110.2
Vanadium				100.0	99.93	99.9	100.80	100.8
Zinc				40.0	50.83	127.1	48.60	121.5

M C0[illegible]

BLANKS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-22.0	B	14.6	U	14.6	U	14.6	U	-19.133	B	P
Antimony	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Barium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Beryllium	0.4	B	0.3	B	0.4	B	0.5	B	0.100	B	P
Cadmium	0.5	B	0.5	B	0.4	B	0.4	B	0.400	U	P
Calcium	28.7	U	28.7	U	28.7	U	28.7	U	28.700	U	P
Chromium	0.6	B	0.4	B	0.4	U	0.5	B	0.400	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	0.4	B	0.4	U	0.4	U	0.4	U	0.400	U	P
Iron	2.6	U	3.6	B	13.2	B	58.8	B	-6.033	B	P
Lead	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Magnesium	22.7	U	22.7	U	22.7	U	22.7	U	22.700	U	P
Manganese	0.5	B	0.5	B	0.4	B	0.5	B	0.300	U	P
Mercury	-0.1	B	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Potassium	49.0	B	43.1	U	43.1	U	43.1	U	63.867	B	P
Selenium	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Silver	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Sodium	9.3	U	9.3	U	9.3	U	9.3	U	83.667	B	P
Thallium	2.0	B	1.9	B	1.7	B	1.7	B	1.300	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	B	0.6	U	0.6	U	1.0	B	3.133	B	P
Cyanide											

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			14.6	U					-5.213	B	P
Antimony			2.8	U					0.560	U	P
Arsenic			2.2	U					0.440	U	P
Barium			0.8	U					0.160	U	P
Beryllium			0.5	B					0.020	U	P
Cadmium			0.4	B					0.080	U	P
Calcium			28.7	U					5.740	U	P
Chromium			0.6	B					0.240	B	P
Cobalt			1.0	U					0.200	U	P
Copper			0.4	U					-0.100	B	P
Iron			4.7	B					-1.513	B	P
Lead			0.7	U					0.140	U	P
Magnesium			22.7	U					4.540	U	P
Manganese			0.6	B					0.060	U	P
Mercury			-0.1	B					0.050	U	CV
Nickel			1.6	U					0.320	U	P
Potassium			43.1	U					8.620	U	P
Selenium			1.7	U					0.340	U	P
Silver			0.5	U					0.100	U	P
Sodium			9.3	U					1.860	U	P
Thallium			1.7	B					0.260	U	P
Vanadium			1.1	U					0.220	U	P
Zinc			0.6	B					0.587	B	P
Cyanide											

H C034

BLANKS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	2.8	U	2.8	U	2.8	U	2.8	U			P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U			P
Barium											
Beryllium											
Cadmium	0.5	B	0.6	B	0.6	B	0.5	B			P
Calcium	28.7	U	46.0	B	28.7	U	46.6	B			P
Chromium	0.4	U	0.4	B	0.4	U	0.4	B			P
Cobalt											
Copper	-0.8	B	0.4	U	0.4	U	0.9	B			P
Iron	9.6	B	18.3	B	9.9	B	19.0	B			P
Lead	0.7	U	0.7	U	0.8	B	0.7	U			P
Magnesium	22.7	U	34.6	B	22.7	U	35.8	B			P
Manganese	0.3	B	0.5	B	0.4	B	0.4	B			P
Mercury											
Nickel											
Potassium											
Selenium	1.7	U	1.7	U	1.7	U	1.7	U			P
Silver	-1.2	B	0.5	U	0.5	U	0.7	B			P
Sodium											
Thallium	2.5	B	1.7	B	1.6	B	2.2	B			P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U			P
Zinc	0.6	U	0.6	U	0.6	U	0.9	B			P
Cyanide											

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61E ICS Source: HIGH PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	507665	518166.8	103.6	533634	532818.4	106.6
Antimony			0	-6.0		-3	-6.6	
Arsenic		1000	1	1061.3	106.1	3	1030.3	103.0
Barium		500	7	550.3	110.1	8	566.5	113.3
Beryllium		500	0	537.0	107.4	0	525.1	105.0
Cadmium		1000	1	985.1	98.5	1	948.9	94.9
Calcium	500000	500000	520386	527981.6	105.6	511882	506559.2	101.3
Chromium		500	-1	504.7	100.9	-2	496.8	99.4
Cobalt		500	2	475.4	95.1	2	460.3	92.1
Copper		500	9	567.7	113.5	8	583.8	116.8
Iron	200000	200000	208818	212971.5	106.5	211361	209660.9	104.8
Lead		1000	-1	919.9	92.0	-1	890.2	89.0
Magnesium	500000	500000	517311	525274.4	105.1	516841	513336.8	102.7
Manganese		500	-1	496.8	99.4	-6	485.9	97.2
Mercury								
Nickel		1000	3	950.6	95.1	2	925.1	92.5
Potassium								
Selenium		1000	7	1027.9	102.8	1	996.7	99.7
Silver		1000	1	1096.6	109.7	1	1113.5	111.4
Sodium								
Thallium		1000	2	927.8	92.8	2	907.9	90.8
Vanadium		500	-2	505.0	101.0	-2	503.1	100.6
Zinc		1000	13	1071.8	107.2	13	1054.0	105.4

II C026

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61 ICS Source: HIGH PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	487715	490487.9	98.1	482974	484080.8	96.8
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	477164	481114.7	96.2	468944	474342.8	94.9
Chromium								
Cobalt								
Copper								
Iron	200000	200000	182031	183957.6	92.0	178711	180844.7	90.4
Lead								
Magnesium	500000	500000	509127	514207.3	102.8	506268	509130.8	101.8
Manganese								
Mercury								
Nickel								
Potassium			11	-6.4		6	10.6	
Selenium								
Silver								
Sodium			-22	-25.6		-29	140.9	
Thallium								
Vanadium								
Zinc								

M C037

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61E ICS Source: HIGH PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	498566	513918.9	102.8	510601	506009.4	101.2
Antimony			-1	-6.8		0	-6.7	
Arsenic		1000	2	1000.3	100.0	1	968.9	96.9
Barium								
Beryllium								
Cadmium		1000	-2	962.7	96.3	-1	922.8	92.3
Calcium	500000	500000	554053	572340.0	114.5	554874	549049.7	109.8
Chromium		500	1	488.0	97.6	0	472.9	94.6
Cobalt								
Copper		500	-5	500.5	100.1	-5	501.0	100.2
Iron	200000	200000	208344	215114.2	107.6	207245	205278.3	102.6
Lead		1000	2	929.9	93.0	1	903.3	90.3
Magnesium	500000	500000	535053	551396.5	110.3	537464	533289.1	106.7
Manganese		500	14	502.2	100.4	9	483.7	96.7
Mercury								
Nickel								
Potassium								
Selenium		1000	1	975.5	97.6	-1	954.9	95.5
Silver		1000	3	1026.7	102.7	2	1021.4	102.1
Sodium								
Thallium		1000	6	924.1	92.4	5	893.6	89.4
Vanadium		500	0	480.0	96.0	0	469.6	93.9
Zinc		1000	0	1025.8	102.6	1	1006.3	100.6

I1 C035

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60219S

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	93.6992		0.5821	U	103.95	90.1		P
Arsenic	75-125	391.8479		0.9483	B	415.80	94.0		P
Barium	75-125	428.9744		1.5454	B	415.80	102.8		P
Beryllium	75-125	10.2426		0.1732	B	10.40	96.8		P
Cadmium	75-125	10.3950		0.1247	B	10.40	98.8		P
Calcium									NR
Chromium	75-125	45.9529		7.2834		41.58	93.0		P
Cobalt	75-125	103.2225		0.3257	B	103.95	99.0		P
Copper	75-125	55.1005		1.5870	B	51.98	103.0		P
Iron									NR
Lead	75-125	101.3442		1.5478		103.95	96.0		P
Magnesium									NR
Manganese	75-125	107.2557		3.5066		103.95	99.8		P
Mercury	75-125	0.4919		0.0557	B	0.43	101.4		CV
Nickel	75-125	106.5904		3.9362	B	103.95	98.8		P
Potassium									NR
Selenium	75-125	372.9734		0.3534	U	415.80	89.7		P
Silver	75-125	11.6050		1.3264	B	10.40	98.8		P
Sodium									NR
Thallium	75-125	393.6295		0.4910	B	415.80	94.5		P
Vanadium	75-125	105.8905		2.0721	B	103.95	99.9		P
Zinc	75-125	107.5537		3.7699	B	103.95	99.8		P
Cyanide									NR

Comments:

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60225S

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		98277.3660		94869.9660		2000.00	170.4		P
Antimony	75-125	318.5125		7.4763	B	500.00	62.2	N	P
Arsenic	75-125	1969.8135		136.1906		2000.00	91.7		P
Barium	75-125	2241.4667		243.4333		2000.00	99.9		P
Beryllium	75-125	55.2333		6.3667		50.00	97.7		P
Cadmium	75-125	45.3667		0.4000	U	50.00	90.7		P
Calcium									NR
Chromium	75-125	724.0000		575.2333		200.00	74.4	N	P
Cobalt	75-125	477.3333		32.1333	B	500.00	89.0		P
Copper	75-125	763.1000		525.0000		250.00	95.2		P
Iron		223942.4000		235358.1000		1000.00	-1141.6		P
Lead	75-125	509.4323		80.6869		500.00	85.7		P
Magnesium									NR
Manganese	75-125	1474.5333		1041.8000		500.00	86.5		P
Mercury	75-125	1.6198		0.5560		1.00	106.4		CV
Nickel	75-125	696.5333		251.5000		500.00	89.0		P
Potassium									NR
Selenium	75-125	1897.1435		9.8457		2000.00	94.4		P
Silver	75-125	139.0966		91.7028		50.00	94.8		P
Sodium									NR
Thallium	75-125	1793.6648		6.7709	B	2000.00	89.3		P
Vanadium	75-125	704.1000		248.6000		500.00	91.1		P
Zinc		4399.0333		4038.5333		500.00	72.1		P
Cyanide									NR

Comments:
TOTAL METALS

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

B225AXS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LO

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		10589.4000		8682.5333		2000.00	95.3		P
Antimony	75-125	512.0687		2.8000	U	500.00	102.4		P
Arsenic	75-125	2022.1460		5.1909	B	2000.00	100.8		P
Barium	75-125	2176.9000		73.6667	B	2000.00	105.2		P
Beryllium	75-125	54.0667		2.4000	B	50.00	103.3		P
Cadmium	75-125	49.9667		1.2333	B	50.00	97.5		P
Calcium									NR
Chromium	75-125	221.1333		23.8333		200.00	98.6		P
Cobalt	75-125	494.3000		23.6000	B	500.00	94.1		P
Copper	75-125	296.2000		37.9000		250.00	103.3		P
Iron		49013.0000		48564.5660		1000.00	44.8		P
Lead	75-125	466.1824		1.5188	B	500.00	92.9		P
Magnesium									NR
Manganese	75-125	1312.2333		832.6000		500.00	95.9		P
Mercury	75-125	1.0496		0.1000	U	1.00	105.0		CV
Nickel	75-125	668.5333		189.2333		500.00	95.9		P
Potassium									NR
Selenium	75-125	2048.2176		1.7000	U	2000.00	102.4		P
Silver	75-125	49.6496		0.5000	U	50.00	99.3		P
Sodium									NR
Thallium	75-125	1921.4206		3.6599	B	2000.00	95.9		P
Vanadium	75-125	496.9333		1.1000	U	500.00	99.4		P
Zinc		5551.5000		5137.4667		500.00	82.8		P
Cyanide									NR

Comments:
DISSOLVED METALS

H Cod

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60219A

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

M0031A BRT 3/4/97

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60225A

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		135.37		7.48	B	120.0	106.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		599.13		575.23		20.0	119.5		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
TOTAL METALS

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

B225AXA

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LO

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

mments:
DISSOLVED METALS

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

B60219D

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.2 % Solids for Duplicate: ~~96.2~~ xn 3/3/17

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		394.1164		428.0596		8.3		P
Antimony		0.5821	U	0.5821	U			P
Arsenic		0.9483	B	0.6341	B	39.7		P
Barium		1.5454	B	1.3444	B	13.9		P
Beryllium		0.1732	B	0.0762	B	77.8		P
Cadmium		0.1247	B	0.0832	U	200.0		P
Calcium		73.5412	B	28.3160	B	88.8		P
Chromium	2.1	7.2834		3.6868		65.6	*	P
Cobalt		0.3257	B	0.2079	U	200.0		P
Copper		1.5870	B	1.0187	B	43.6		P
Iron		1802.8829		1362.4116		27.8	*	P
Lead	0.6	1.5478		1.1814		26.9		P
Magnesium		48.8288	B	31.0811	B	44.4		P
Manganese	3.1	3.5066		1.9473	B	57.2		P
Mercury		0.0557	B	0.0433	U	200.0		CV
Nickel		3.9362	B	0.9494	B	122.3		P
Potassium		40.7277	B	42.5017	B	4.3		P
Selenium		0.3534	U	0.3534	U			P
Silver		1.3264	B	1.3289	B	0.2		P
Sodium		30.5336	B	27.9764	B	8.7		P
Thallium		0.4910	B	0.2703	U	200.0		P
Vanadium		2.0721	B	1.9543	B	5.9		P
Zinc		3.7699	B	3.5482	B	6.1		P
Cyanide								

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

B60225D

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		94869.9660		85744.3660		10.1		P
Antimony		7.4763	B	5.4011	B	32.2		P
Arsenic		136.1906		135.3653		0.6		P
Barium	200.0	243.4333		224.0333		8.3		P
Beryllium	5.0	6.3667		6.2333		2.1		P
Cadmium		0.4000	U	0.4000	U			P
Calcium	5000.0	20779.4000		20785.5000		0.0		P
Chromium		575.2333		563.4000		2.1		P
Cobalt		32.1333	B	31.8667	B	0.8		P
Copper		525.0000		519.7667		1.0		P
Iron		235358.1000		235391.1000		0.0		P
Lead		80.6869		78.2968		3.0		P
Magnesium		104524.2000		104719.8600		0.2		P
Manganese		1041.8000		1037.0000		0.5		P
Mercury	0.2	0.5560		0.5582		0.4		CV
Nickel		251.5000		246.0000		2.2		P
Potassium		29475.1330		29136.6000		1.2		P
Selenium	5.0	9.8457		9.8072		0.4		P
Silver		91.7028		92.6527		1.0		P
Sodium		65996.4000		66424.1660		0.6		P
Thallium		6.7709	B	6.8915	B	1.8		P
Vanadium	50.0	248.6000		245.2333		1.4		P
Zinc		4038.5333		4045.5667		0.2		P
Cyanide								

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

B225AXD

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LO

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8682.5333		8609.8333		0.8		P
Antimony		2.8000	U	2.8000	U			P
Arsenic		5.1909	B	4.1958	B	21.2		P
Barium		73.6667	B	72.8000	B	1.2		P
Beryllium		2.4000	B	2.4000	B	0.0		P
Cadmium		1.2333	B	1.1667	B	5.6		P
Calcium	5000.0	21692.6000		21733.7000		0.2		P
Chromium	10.0	23.8333		24.2333		1.7		P
Cobalt		23.6000	B	23.7667	B	0.7		P
Copper	25.0	37.9000		37.4667		1.1		P
Iron		48564.5660		48578.8000		0.0		P
Lead		1.5188	B	0.7787	B	64.4		P
Magnesium		124681.6300		124697.0000		0.0		P
Manganese		832.6000		831.4667		0.1		P
Mercury		0.1000	U	0.1000	U			CV
Nickel	40.0	189.2333		190.0333		0.4		P
Potassium		29964.9000		29726.3660		0.8		P
Selenium		1.7000	U	1.8221	B	200.0		P
Silver		0.5000	U	0.5000	U			P
Sodium		72729.6660		72222.8660		0.7		P
Thallium		3.6599	B	2.0611	B	55.9		P
Vanadium		1.1000	U	1.1000	U			P
Zinc		5137.4667		5135.5000		0.0		P
Cyanide								

LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Solid LCS Source: ERA230/224

Aqueous LCS Source: HIGH PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	50000.0	47965.73	95.9	6210.0	7005.3		3870.0	8570.0	112.8
Antimony	1000.0	961.34	96.1	51.2	25.7		12.2	90.1	50.2
Arsenic	500.0	474.98	95.0	62.7	58.6		43.9	81.5	93.5
Barium	2500.0	2511.67	100.5	260.0	254.9		190.0	330.0	98.0
Beryllium	2500.0	2488.00	99.5	87.2	81.9		67.0	107.0	93.9
Cadmium	2500.0	2364.83	94.6	77.4	70.5		51.4	103.0	91.1
Calcium	50000.0	44442.30	88.9	2760.0	2326.4		1770.0	3750.0	84.3
Chromium	2500.0	2393.33	95.7	76.9	71.5		59.4	94.6	93.0
Cobalt	2500.0	2306.83	92.3	101.0	94.6		76.8	125.0	93.7
Copper	2500.0	2469.27	98.8	58.2	57.3		45.9	70.4	98.5
Iron	50000.0	46200.33	92.4	15300.0	14361.6		8840.0	21700.0	93.9
Lead	500.0	440.21	88.0	122.0	99.2		82.7	160.0	81.3
Magnesium	50000.0	45353.33	90.7	1800.0	1665.1		1440.0	2160.0	92.5
Manganese	2500.0	2354.97	94.2	232.0	229.2		178.0	285.0	98.8
Mercury				2.5	2.4		1.6	3.4	96.0
Nickel	2500.0	2326.20	93.0	163.0	151.4		122.0	204.0	92.9
Potassium	80000.0	78007.03	97.5	2020.0	2400.1		1410.0	2630.0	118.8
Selenium	500.0	468.37	93.7	91.7	80.0		65.5	118.0	87.2
Silver	1000.0	967.11	96.7	69.6	70.6		51.4	87.7	101.4
Sodium	80000.0	81615.83	102.0	474.0	450.4	B	305.0	645.0	95.0
Thallium	500.0	464.85	93.0	50.5	48.9		24.0	76.8	96.8
Vanadium	2500.0	2392.17	95.7	142.0	138.9		89.2	195.0	97.8
Zinc	2500.0	2454.47	98.2	114.0	108.1		84.1	144.0	94.8
Cyanide									

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

8

STANDARD ADDITION RESULTS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

FORM VIII - IN

M 0038

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

B60219L

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	1895.70		1913.00		0.9		P
Antimony	2.80	U	14.00	U			P
Arsenic	4.56	B	11.00	U	100.0		P
Barium	7.43	B	11.00	B	48.0		P
Beryllium	0.83	B	0.50	B	100.0		P
Cadmium	0.60	B	2.00	U	100.0		P
Calcium	353.73	B	213.83	B	39.5		P
Chromium	35.03		34.83	B	0.6		P
Cobalt	1.57	B	5.00	U	100.0		P
Copper	7.63	B	5.33	B	30.1		P
Iron	8671.87		8620.67		0.6		P
Lead	7.44		7.53	B	1.2		P
Magnesium	234.87	B	165.17	B	29.7		P
Manganese	16.87		17.00	B	0.8		P
Mercury							
Nickel	18.93	B	20.00	B	5.7		P
Potassium	195.90	B	361.83	B	84.7		P
Selenium	1.70	U	8.50	U			P
Silver	6.38	B	4.56	B	28.5		P
Sodium	146.87	B	240.50	B	63.8		P
Thallium	2.36	B	23.70	B	904.2		P
Vanadium	9.97	B	10.33	B	3.6		P
Zinc	18.13	B	20.17	B	11.3		P

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

B60225L

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	94869.97		96102.83		1.3		P
Antimony	7.48	B	14.00	U	100.0		P
Arsenic	136.19		141.03		3.6		P
Barium	243.43		252.83	B	3.9		P
Beryllium	6.37		7.00	B	9.9		P
Cadmium	0.40	U	2.00	U			P
Calcium	20779.40		21128.67	B	1.7		P
Chromium	575.23		608.00		5.7		P
Cobalt	32.13	B	34.50	B	7.4		P
Copper	525.00		514.33		2.0		P
Iron	235358.10		222042.17		5.7		P
Lead	80.69		89.96		11.5	E	P
Magnesium	104524.20		107634.17		3.0		P
Manganese	1041.80		1113.50		6.9		P
Mercury							
Nickel	251.50		272.17		8.2		P
Potassium	29475.13		30757.00		4.3		P
Selenium	9.85		10.36	B	5.2		P
Silver	91.70		91.92		0.2		P
Sodium	65996.40		64810.67		1.8		P
Thallium	6.77	B	30.74	B	354.1		P
Vanadium	248.60		257.50		3.6		P
Zinc	4038.53		4300.67		6.5		P

II 0040

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

B225AXL

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Matrix (soil/water): WATER Level (low/med): LO

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	8682.53		8834.83		1.8		P
Antimony	2.80	U	14.00	U			P
Arsenic	5.19	B	11.00	U	100.0		P
Barium	73.67	B	79.33	B	7.7		P
Beryllium	2.40	B	2.83	B	17.9		P
Cadmium	1.23	B	2.00	U	100.0		P
Calcium	21692.60		21999.67	B	1.4		P
Chromium	23.83		25.83	B	8.4		P
Cobalt	23.60	B	26.17	B	10.9		P
Copper	37.90		45.00	B	18.7	E	P
Iron	48564.57		50912.33		4.8		P
Lead	1.52	B	3.50	U	100.0		P
Magnesium	124681.63		126691.83		1.6		P
Manganese	832.60		882.67		6.0		P
Mercury							
Nickel	189.23		207.00		9.4		P
Potassium	29964.90		29788.00		0.6		P
Selenium	1.70	U	8.50	U			P
Silver	0.50	U	2.50	U			P
Sodium	72729.67		70861.50		2.6		P
Thallium	3.66	B	22.46	B	513.7		P
Vanadium	1.10	U	5.50	U			P
Zinc	5137.47		5509.83		7.2		P

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61 Date: 01/07/97

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	8.7	
Antimony	206.83		60.0	6.6	
Arsenic	193.70		10.0	15.2	
Barium	493.40		200.0	1.7	
Beryllium	313.00		5.0	0.5	
Cadmium	226.50		5.0	1.2	
Calcium	317.93		5000.0	4.2	
Chromium	267.72		10.0	3.8	
Cobalt	228.62		50.0	2.5	
Copper	324.75		25.0	1.6	
Iron	259.94		100.0	1.8	
Lead	220.30		3.0	13.0	
Magnesium	279.08		5000.0	8.3	
Manganese	257.61		15.0	0.5	
Mercury			0.2		
Nickel	231.60		40.0	2.9	
Potassium	766.50		5000.0	43.1	P
Selenium	196.00		5.0	26.5	
Silver	328.07		10.0	1.7	
Sodium	589.00		5000.0	9.3	P
Thallium	190.86		10.0		
Vanadium	292.40		50.0	2.0	
Zinc	213.86		20.0	0.5	
Cyanide	578.00		10.0	10.0	

Comments:

NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.

CYANIDE = 1/20/97.

M C012

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: Date: 01/09/97

Flame AA ID Number: LEEMAN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	254.00		0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:
NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.

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H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61E Date: 01/03/97

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	14.6	P
Antimony	206.84		60.0	2.8	P
Arsenic	189.04		10.0	2.2	P
Barium	493.41		200.0	0.8	P
Beryllium	313.04		5.0	0.1	P
Cadmium	226.50		5.0	0.4	P
Calcium	317.93		5000.0	28.7	P
Chromium	267.72		10.0	0.4	P
Cobalt	228.62		50.0	1.0	P
Copper	324.75		25.0	0.4	P
Iron	259.94		100.0	2.6	P
Lead	220.35		3.0	0.7	P
Magnesium	279.08		5000.0	22.7	P
Manganese	257.61		15.0	0.3	P
Mercury			0.2		
Nickel	231.60		40.0	1.6	P
Potassium	766.49		5000.0	16.9	
Selenium	196.03		5.0	1.7	P
Silver	328.07		10.0	0.5	P
Sodium	589.00		5000.0	5.3	
Thallium	190.86		10.0	1.3	P
Vanadium	292.40		50.0	1.1	P
Zinc	213.86		20.0	0.6	P
Cyanide	578.00		10.0	10.0	CA

Comments:

NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.
ANTIMONY, LEAD & SELENIUM USE FIRST & SECOND ORDER FOR ANALYSIS.
CYANIDE IDL = 1/20/97.
IRON(271.4) IDL = 18.6, SODIUM(330.2) IDL = 55.8.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61 Date: 11/06/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CU
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000800	0.0000000	0.0000000
Arsenic	193.70	0.0062000	0.0000000	0.0002600	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000250	0.0000000	0.0002300	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0001200	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.30	0.0012800	0.0000000	0.0001520	0.0000000	-0.0002500
Magnesium	279.08	0.0000000	0.0000370	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0003400	0.0000000	-0.0001600
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0002250	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000150	0.0000290	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000800	0.0000000	0.0031000
Cyanide						

Comments:

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61E Date: 03/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0346920	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000
Calcium	317.93	0.0003660	0.0000000	0.0007150	0.0000000	0.0000000
Chromium	267.72	0.0000070	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0020000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	-0.0033900
Lead	220.35	0.7224670	0.0000000	-0.7617130	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0002730	0.0000000	-0.0041600
Manganese	257.61	0.0000000	0.0000000	-0.0000470	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0097840	0.0000000	-0.0369700	0.0000000	0.4170000
Silver	328.07	0.0000000	0.0000000	-0.2467100	0.0000000	0.1595850
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000190	0.0000000	-0.0631180	0.0000000	-0.7661000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000420	0.0000000	0.0000890	0.0000000	0.0000000
Cyanide						

Comments:

SECOND ORDER WAVELENGTH CORRECTIONS ARE AS FOLLOWS: ANTIMONY NONE; LEAD -0.387052 FOR ALUMINUM AND 0.470726 FOR IRON, AND SELENIUM -0.3895 FOR MANGANESE AND -0.361719 FOR IRON.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61 Date: 11/06/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: CO	CR	MN	NI	V
Aluminum	308.22	-0.0016000	0.0000000	0.0005100	0.0000000	0.0196000
Antimony	206.83	0.0000000	0.0072500	0.0000000	0.0000000	0.0000000
Arsenic	193.70	0.0012000	0.0007500	0.0000000	0.0003800	-0.0005300
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0051000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0002200	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0003000	0.0000000	0.0035000
Cobalt	228.62	0.0000000	0.0001900	0.0000000	0.0004000	0.0000000
Copper	324.75	0.0003500	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.30	-0.0013500	-0.0017000	0.0000000	0.0002400	-0.0009600
Magnesium	279.08	0.0000000	-0.0006100	-0.0018000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	-0.0087000	0.0000000	0.0000000	0.0000000	-0.0021000
Silver	328.07	0.0000000	0.0000000	0.0001400	0.0000000	-0.0012000
Sodium	589.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0062000	0.0000000	0.0000000	0.0000000	-0.0035000
Vanadium	292.40	0.0000000	0.0001000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	-0.0002000	0.0000000	0.0032000	-0.0001100
Cyanide						

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61 Date: 01/24/97

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	750000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	50000.0	P
Barium	10.00	20000.0	P
Beryllium	10.00	100000.0	P
Cadmium	10.00	100000.0	P
Calcium	10.00	750000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	50000.0	P
Iron	10.00	500000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	750000.0	P
Manganese	10.00	50000.0	P
Mercury			
Nickel	10.00	100000.0	P
Potassium	10.00	500000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	5000.0	P
Sodium	10.00	500000.0	P
Thallium			
Vanadium	10.00	50000.0	P
Zinc	10.00	100000.0	P
Cyanide			

Comments:
NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

ICP ID Number: TJA61E Date: 01/10/97

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	625000.0	P
Antimony	15.00	5000.0	P
Arsenic	15.00	25000.0	P
Barium	15.00	20000.0	P
Beryllium	15.00	10000.0	P
Cadmium	15.00	25000.0	P
Calcium	15.00	625000.0	P
Chromium	15.00	25000.0	P
Cobalt	15.00	25000.0	P
Copper	15.00	25000.0	P
Iron	15.00	300000.0	P
Lead	15.00	25000.0	P
Magnesium	15.00	625000.0	P
Manganese	15.00	25000.0	P
Mercury			
Nickel	15.00	25000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	25000.0	P
Silver	15.00	5000.0	P
Sodium	15.00	225000.0	P
Thallium	15.00	25000.0	P
Vanadium	15.00	25000.0	P
Zinc	15.00	10000.0	P
Cyanide			

Comments:

NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.

IRON(259.940) = 25000. SODIUM(588.995) = 25000

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

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Preparation Log

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Method: CV

Sample No.	Preparation Date	Weight (gram)	Volume (ml)
B223AX	01/30/97		100
B224AX	01/30/97		100
B225AX	01/30/97		100
B225AXD	01/30/97		100
B225AXS	01/30/97		100
B60219	01/30/97	0.24	100
B60219D	01/30/97	0.24	100
B60219S	01/30/97	0.24	100
B60223	01/30/97		100
B60224	01/30/97		100
B60225	01/30/97		100
B60225D	01/30/97		100
B60225S	01/30/97		100
CCB1	01/30/97		100
CCB2	01/30/97		100
CCB3	01/30/97		100
CCB4	01/30/97		100
CCV1	01/30/97		100
CCV2	01/30/97		100
CCV3	01/30/97		100
CCV4	01/30/97		100
ICB	01/30/97		100
ICV	01/30/97		100
LCSS	01/30/97	0.20	100
PBS	01/30/97	0.20	100
PBW	01/30/97		100

FORM XIII - IN

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

13

Preparation Log

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122

Method: P

Sample No.	Preparation Date	Weight (gram)	Volume (ml)
B223AX	02/12/97		100
B224AX	02/12/97		100
B225AX	02/12/97		100
B225AXD	02/12/97		100
B225AXS	02/12/97		100
B60219	02/12/97	1.00	200
B60219D	02/12/97	1.00	200
B60219S	02/12/97	1.00	200
B60223	02/12/97		100
B60224	02/12/97		100
B60225	02/12/97		100
B60225D	02/12/97		100
B60225S	02/12/97		100
LCSS	02/12/97	1.00	200
LCSW	02/12/97		100
PBS	02/12/97	1.00	200
PBW	02/12/97		100

FORM XIII - IN

Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61E Method: P
Start Date: 02/15/97 End Date: 02/15/97

Sample No.	D/F	Time	%R	Analytes																												
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1124		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
S	1.00	1131		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_
S	1.00	1138		X	_	_	_	_	_	X	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
S	1.00	1144		_	_	X	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_	_	X	_	_	_	_
S	1.00	1150		_	_	_	X	X	X	_	X	X	X	_	_	_	X	_	X	_	_	_	_	_	X	X	_	_
S	1.00	1157		_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_	_	_
S	1.00	1202		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	X	_	_	_	_	_
ICV	1.00	1208		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
ICVL	5.00	1216												X														
ICB	1.00	1223		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
CRII	1.00	1230		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
ICSAI	1.00	1238		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
ICSABI	1.00	1245		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
CCV1	1.00	1252		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
CCVL1	1.00	1259												X														
CCB1	1.00	1307		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
PBW	1.00	1314		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
PBS	1.00	1322		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
LCSW	1.00	1330		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
LCSS	1.00	1337		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60219	1.00	1345		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60219D	1.00	1352		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60219S	1.00	1359			X	X	X	X	X		X	X	X		X		X	_	X	_	X	X	_	X	X	X	_
B60219L	5.00	1406		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B223AX	1.00	1414		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60224	1.00	1421		X			X	X				X						_	X	_			_				_
CCV2	1.00	1430		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
CCVL2	1.00	1437												X														
CCB2	1.00	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B224AX	1.00	1452		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60225	1.00	1459		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
B60225D	1.00	1506		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61E Method: P
Start Date: 02/15/97 End Date: 02/15/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
360225S	1.00	1514		X	X	X	X	X	X	-	X	X	X	X	X	-	X	-	X	-	X	X	-	X	X	X	-
B60225L	5.00	1521		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
B225AX	1.00	1528		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
3225AXD	1.00	1535		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
3225AXS	1.00	1543		X	X	X	X	X	X		X	X	X	X	X		X	-	X	-	X	X	-	X	X	X	-
B225AXL	5.00	1550		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
360223	1.00	1557		X			X	X				X							X								
CV3	1.00	1606		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
CCVL3	1.00	1614												X													
CCB3	1.00	1621		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
ZZZZZ	5.00	1628		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZ	1.00	1636		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B60225A	1.00	1643		-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZ	1.00	1650		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZ	1.00	1657		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1705																									
RIF	1.00	1712		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
CSAF	1.00	1719		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
CSABF	1.00	1727		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
CCV4	1.00	1734		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
CVL4	1.00	1741												X													
CB4	1.00	1749		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	X	X	X	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61 Method: P
Start Date: 02/18/97 End Date: 02/18/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1407		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
S	1.00	1413			X																	X								
S	1.00	1417		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X				X	X				
S	1.00	1422																		X			X							
ICV	1.00	1430																		X			X							
ICB	1.00	1435																		X			X							
CRII	1.00	1439																		X			X							
ICSAI2	1.00	1444		X						X				X		X				X			X							
ICSABI2	1.00	1450		X						X				X		X				X			X							
CCV1	1.00	1456																		X			X							
CCB1	1.00	1501																		X			X							
PBW	1.00	1505																		X			X							
PBS	1.00	1511																		X			X							
LCSW	1.00	1519																		X			X							
LCSS	1.00	1528																		X			X							
B60219	1.00	1533																		X			X							
B60219D	1.00	1537																		X			X							
ZZZZZZ	1.00	1543																												
B60219L	5.00	1548																		X			X							
B223AX	1.00	1552																		X			X							
B60224	1.00	1557																		X			X							
CCV2	1.00	1602																		X			X							
CCB2	1.00	1607																		X			X							
B224AX	1.00	1612																		X			X							
B60225	1.00	1617																		X			X							
B60225D	1.00	1621																		X			X							
ZZZZZZ	1.00	1626																												
B60225L	5.00	1631																		X			X							
B225AX	1.00	1635																		X			X							
B225AXD	1.00	1640																		X			X							
ZZZZZZ	1.00	1645																												
B225AXL	5.00	1649																		X			X							

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61 Method: P
Start Date: 02/18/97 End Date: 02/18/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
60223	1.00	1654		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
CV3	1.00	1700		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
CCB3	1.00	1710		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
ZZZZZ	10.00	1720		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZ	1.00	1725		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRIF	1.00	1730		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
CSAF2	1.00	1735		X	-	-	-	-	-	X	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	-	-
CSABF2	1.00	1740		X	-	-	-	-	-	X	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	-	-
CV4	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
CCB4	1.00	1752		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61E Method: P
Start Date: 02/26/97 End Date: 02/26/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1111		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	1.00	1119			X																	X						
S	1.00	1125		X						X				X		X												
S	1.00	1131				X									X						X			X				
S	1.00	1137					X	X	X		X	X	X				X		X						X	X		
S	1.00	1145												X									X					
S	1.00	1150																		X			X					
ICV3	1.00	1200			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
ICVL3	1.00	1207												X														
ICB3	1.00	1214			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
CRII2	1.00	1221			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
ICSAI3	1.00	1240		X	X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
ICSABI3	1.00	1247		X	X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
CCV5	1.00	1255			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
CCVL5	1.00	1302												X														
CCB7	1.00	1309			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
ZZZZZZ	1.00	1326																										
ZZZZZZ	1.00	1334																										
ZZZZZZ	1.00	1341																										
ZZZZZZ	1.00	1348																										
ZZZZZZ	1.00	1355																										
ZZZZZZ	1.00	1403																										
ZZZZZZ	1.00	1410																										
ZZZZZZ	1.00	1417																										
ZZZZZZ	1.00	1425																										
ZZZZZZ	1.00	1432																										
CCV6	1.00	1439			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
CCVL6	1.00	1446												X														
CCB8	1.00	1454			X	X			X	X	X		X	X	X	X	X	X				X	X		X	X	X	
ZZZZZZ	1.00	1501																										
ZZZZZZ	1.00	1508																										
ZZZZZZ	1.00	1516																										

M 0056

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: TJA61E Method: P
Start Date: 02/26/97 End Date: 02/26/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1523																								
ZZZZZZ	1.00	1530																								
B60223	20.00	1537			X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
360224	2.00	1545			X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
CRIF2	1.00	1552			X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
ICSAF2	1.00	1606		X	X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
ICSABF2	1.00	1613		X	X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
CCV7	1.00	1620			X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	
CCVL7	1.00	1628												X													
CCB9	1.00	1635			X	X			X	X	X		X	X	X	X	X				X	X		X	X	X	

M 0057

Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: LEEMAN Method: CV
Start Date: 01/31/97 End Date: 01/31/97

Sample No.	D/F	Time	%R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0758		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.2	1.00	0801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S1	1.00	0803		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S2	1.00	0806		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S5	1.00	0808		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S10	1.00	0811		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV	1.00	0814		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB	1.00	0816		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV1	1.00	0819		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB1	1.00	0821		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0824		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
PBW	1.00	0826		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
PBS	1.00	0828		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
LCSS	1.00	0830		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60223	1.00	0833		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B223AX	1.00	0835		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60224	1.00	0838		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60219	1.00	0840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60219D	1.00	0842		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60219S	1.00	0844		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV2	1.00	0847		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB2	1.00	0849		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B224AX	1.00	0852		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0854		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0856		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0858		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0901		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0903		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0905		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B60225	1.00	0907		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60225D	1.00	0909		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
B60225S	1.00	0912		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0122
Instrument ID Number: LEEMAN Method: CV
Start Date: 01/31/97 End Date: 01/31/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00	0914																X								
CCB3	1.00	0916																X								
ZZZZZZ	1.00	0919																								
ZZZZZ	1.00	0921																								
ZZZZZ	1.00	0923																								
ZZZZZZ	1.00	0925																								
ZZZZZ	1.00	0928																								
ZZZZZ	1.00	0930																								
ZZZZZZ	1.00	0932																								
R225AX	1.00	0934																X								
225AXD	1.00	0937																X								
225AXS	1.00	0939																X								
CCV4	1.00	0941																X								
CCB4	1.00	0944																X								

III. RAW DATA FOR METALS

A. ICP DATA
B. MERCURY DATA

H2M LABS, INC.

Don't use Na, K see 2/13/97 (ISA61) Standards Prep'd: 2/15/97
run mtm 2/24/97 Source: High Purity

Trace 61E CLIENT NOEC0122 (Case BA096) DATE 2/15/97

TASK: PROFCLP2 (Autosampler) RESULT FILE: NOEC0122.ASC ANALYST C.G.B.

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702044S	B6C0225S ~~XXX225S~~; Dilute Fe mtm 2/24/97
2	ICVL		27	9702044L	B6C225L ~~XXX225L~~
3	ICB		28	9702045	B225AX ~~XX225A~~
4	CRII		29	9702045D	B225AXD ~~XX225AD~~
5	ICSAI		30	9702045S	B225AXS ~~XX225AS~~ mtm 2/24/97
6	ICSABI		31	9702045L	B225AXL ~~XX225AL~~
7	CCV1		32 *	9702040	B6C0223 ~~XXX223~~; Fe saturated + K-Coef's Need Dilution
8	CCVL1		33	CCV3	
9	CCB1		34	CCVL3	
10	PBW	B6C0222	35	CCB3	
11	PBS		36	9702040	222222 ~~XXX223~~; (1:5 Dilution) Dilute Fe K-Coef's Needs further dilution
12	LCSW		37	9702033P	222222 ~~XXX219P~~; Not required
13	LCSS		38	9702044P	B6C225P ~~XXX225P~~; Sb=+120 ug/L Cr=+20 ug/L
14	9702033	~~XXX219~~ B6C0219	39	9702045P	222222 ~~XX225AP~~; Not required
15	9702033D	~~XXX219D~~ B6C219D	40	9703628	EA COMP; BNLS014
16	9702033S	~~XXX219S~~ B6C219S	41	9703820	EA COMP; BNLS014
17	9702033L	~~XXX219L~~ B6C219L	42	CBIF	
18	9702041	~~XX223A~~ B223AX	43	ICSAF	
19 *	9702042	B6C0224 ~~XXX224~~; Dilute Fe(1:2) Cd=-.0067	44	ICSABF	* SAMPLES 9702042 and 9702040 Need Dilutions For Ag, As, Cu, Cd, Cr, Co Fe, Mg, Mn, Mo, Sb, Se, Te V, Zn - Fe over Linear Range and inter-element corrections applied to above analytes mtm 2/24/97
20	CCV2		45	CCV4	
21	CCVL2		46	CCVL4	
22	CCB2		47	CCB4	
23	9702043	~~XX224A~~ B224AX	48		
24	9702044	B6C0225 ~~XXX225~~; ~~Dilute Fe (1:2)~~	49		
25	9702044D	B6C0225D ~~XXX225D~~; ~~Dilute Fe~~	50		

mtm * Dilution not required. Fe in Linear Range for 9702044, 044D, 044S

H2M LABS, INC.

SDG NO.: NDEC0122 (Case# RA096)
DATE: 2-15-97
ANALYST: CGZ
ELEMENT: TCL

METALS QC CHECKLIST

	YES	NO	NA
GENERAL			
1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE	✓		
1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB?	✓		
2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION	✓		
3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION	✓		
4. ARE THE "S" SPIKE RECOVERIES CHECKED?	✓		
5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL?	✓		
6. IS THE PREP BLANK LABELLED AS WATER OR SOIL?	✓		
7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES?	✓		
8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY?		✓	
9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID?	✓		
10. ARE ALL PAGES SIGNED AND DATED?	✓		
11. WAS A CRA/CRI STD. ANALYZED?	✓		
12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.?	✓		
13. IS THE INITIAL CAL. COEFF. > 0.995?	✓		
14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE?			✓
FURNACE			
15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE			
16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE			
17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE			
18. DID ANY SAMPLES REQUIRE MSA ANALYSIS?			
19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN?			
20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB?			
ICP			
21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA?			✓
22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION?	✓		

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

NDEC0122 (Case # RA096)

toSampler Report Table: NDEC Thu 02-20-97 11:14:59 AM page 1

e Name: NDEC Autosampler Type: TYPE IJA
mple Positions: 31/96 QC Positions: 12/19 # Sets: 1
ase Station location is rack -1, pos. -1.

Racks ---

: #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	12	10
2	Sample (28mm)	Samples	0	1
	Sample (28mm)	Samples	0	1
	Sample (28mm)	Samples	7	1
5	Sample (28mm)	Samples	24	1

Sample Sets ---

t#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		*FromMTD	65	2	1

Preparation Info ---

t#	Uptake	Uptake#2	Final	Dil.Factor

amples Prepared.

ck #1

	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	NAK100	-NA-	1	Standard
	1	2	FeNaL	-NA-	1	Standard
	1	3	MULTIH	-NA-	1	Standard
4	1	4	FURNH	-NA-	1	Standard
	1	5	ICSH	-NA-	1	Standard
	1	6	AGSBH	-NA-	1	Standard
7	1	7	BLANK	-NA-	1	Standard

.19 Not Used)

ck #2

	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICV	1	-NA-	Sample
	1	2	ICVL	1	-NA-	Sample
	1	3	ICB	1	-NA-	Sample
4	1	4	CRII	1	-NA-	Sample
5	1	5	ICSAI	1	-NA-	Sample
	1	6	ICSABI	1	-NA-	Sample
	1	7	CCV1	1	-NA-	Sample
8	1	8	CCVL1	1	-NA-	Sample
9	2	1	CCB1	1	-NA-	Sample
	2	2	PBW	1	-NA-	Sample
	2	3	PBS	1	-NA-	Sample
2	2	4	LCSW	1	-NA-	Sample
	2	5	LCSS	1	-NA-	Sample
	2	6	XXX219	1	-NA-	Sample

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ıck #2

ɔs	Row	Col	Sample Name	Set #	#Used	Type
ı5	2	7	XXX219D	1	-NA-	Sample
ı6	2	8	XXX219S	1	-NA-	Sample
ı7	3	1	XXX219L	1	-NA-	Sample
ı8	3	2	XX223A	1	-NA-	Sample
ı9	3	3	XXX224	1	-NA-	Sample
20	3	4	CCV2	1	-NA-	Sample
21	3	5	CCVL2	1	-NA-	Sample
22	3	6	CCB2	1	-NA-	Sample
23	3	7	XX224A	1	-NA-	Sample
24	3	8	XXX225	1	-NA-	Sample

ıck #3

ɔs	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	XXX225D	1	-NA-	Sample
2	1	2	XXX225S	1	-NA-	Sample
3	1	3	XXX225L	1	-NA-	Sample
4	1	4	XX225A	1	-NA-	Sample
5	1	5	XX225AD	1	-NA-	Sample
6	1	6	XX225AS	1	-NA-	Sample
7	1	7	XX225AL	1	-NA-	Sample
8	1	8	XXX223	1	-NA-	Sample
9	2	1	CCV3	1	-NA-	Sample
ı0	2	2	CCVL3	1	-NA-	Sample
ı1	2	3	CCB3	1	-NA-	Sample
ı2	2	4	XXX223	1	-NA-	Sample
ı3	2	5	XXX219P	1	-NA-	Sample
ı4	2	6	XXX225P	1	-NA-	Sample
ı5	2	7	XX225AP	1	-NA-	Sample
ı6	2	8	9703628	1	-NA-	Sample
ı7	3	1	9703820	1	-NA-	Sample
ı8	3	2	CRIF	1	-NA-	Sample
ı9	3	3	ICSAF	1	-NA-	Sample
20	3	4	ICSABF	1	-NA-	Sample
21	3	5	CCV4	1	-NA-	Sample
22	3	6	CCVL4	1	-NA-	Sample
23	3	7	CCB4	1	-NA-	Sample
24	3	8	(empty)	1	-NA-	-NA-

ıck #4

ɔs	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	2	1	(empty)	1	-NA-	-NA-

M 0064

Thermo Jarrell Ash
ndardization Rpt.
CAP 61E Trace

NDEC 0122 (Case #RA096)

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ethod: PROFCLP2 Standard: BLANK

Data File: NDEC0122.ASC

em	Ag	Al	As1890	B	Ba	Be	Ca
vge	-.00013	.0054	-.00188	.0023	.0000	-.0016	.0111
SDev	.00004	.0004	.00091	.0000	.0000	.0000	.0006
SD	31.718	7.734	48.388	1.042	.0000	1.470	5.765
#1	-.00010	.0058	-.00235	.0022	.0000	-.0016	.0116
	-.00010	.0054	-.00083	.0023	.0000	-.0016	.0112
	-.00017	.0050	-.00246	.0023	.0000	-.0016	.0104

Elem	Cd	Co	Cr	Cu	Fe	Fe	K
ge	.0008	.0000	.0004	.0027	.0000	.1166	.0080
ev	.0009	.0001	.0000	.0000	.0000	.0156	.0006
%RSD	104.1	461.2	4.894	1.610	.0000	13.36	7.032
	.0015	.0001	.0004	.0027	.0000	.1315	.0076
#2	.0011	-.0001	.0004	.0028	.0000	.1180	.0086
#3	-.0001	.0000	.0005	.0027	.0000	.1004	.0076

em	Mg	Mn	Na	Na	Ni	2203/1	2203/2
vge	.0034	.0008	-.0435	.5910	.0002	.01683	-.00093
ev	.0007	.0002	.0026	.0045	.0001	.00329	.00110
SD	20.99	25.98	5.878	.7620	55.58	19.571	117.57
#1	.0041	.0007	-.0410	.5858	.0001	.01311	-.00210
	.0035	.0010	-.0433	.5931	.0003	.01803	.00007
	.0027	.0007	-.0461	.5940	.0002	.01936	-.00076

em	2068/1	2068/2	1960/1	1960/2	Sn	Ti	Tl1908
ge	-.00579	.00035	-.00833	.00348	.0042	.0001	-.00918
SDev	.00201	.00155	.00116	.00079	.0015	.0000	.00170
%RSD	34.778	436.10	13.925	22.673	35.06	49.43	18.542
	-.00348	.00214	-.00962	.00431	.0048	.0001	-.00735
#2	-.00721	-.00059	-.00738	.00274	.0025	.0000	-.01071
	-.00666	-.00049	-.00798	.00340	.0052	.0001	-.00947

Elem	V	Zn	Si2881	Mo2020
vge	.0001	.0018	.0253	.0004
ev	.0000	.0001	.0002	.0002
SD	34.56	3.547	.7649	48.93
	.0001	.0019	.0251	.0003
	.0000	.0018	.0255	.0002
#3	.0001	.0017	.0252	.0006

M 0065

thod: PROFCLP2 Standard: AGSBH

lem	Ag	2068/1	2068/2
vge	.74161	3.3604	1.7307
Dev	.00077	.0150	.0039
RSD	.10332	.44582	.22435
1	.74220	3.3549	1.7338
2	.74189	3.3773	1.7320
3	.74074	3.3489	1.7264

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29275	--	--	--	--	--	--
Dev	109.9896	--	--	--	--	--	--
RSD	.3757170	--	--	--	--	--	--
1	29399	--	--	--	--	--	--
2	29234	--	--	--	--	--	--
3	29191	--	--	--	--	--	--

dardization Rpt. Sat 02-15-97 11:44:00 AM page 1

thod: PROFCLP2 Standard: ICSH

m	Al	Ca	Fe	Mg
vge	35.37	54.29	.5960	61.98
Dev	.04	.11	.0009	.11
D	.1032	.2039	.1493	.1722
1	35.42	54.19	.5954	61.89
	35.36	54.27	.5955	61.95
	35.35	54.40	.5970	62.10

ntStd	1	2	3	4	5	6	7
e	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
lavien	371.030	--	--	--	--	--	--
e	26268	--	--	--	--	--	--
v	97.75852	--	--	--	--	--	--
RSD	.3721639	--	--	--	--	--	--
	26155	--	--	--	--	--	--
	26331	--	--	--	--	--	--
3	26317	--	--	--	--	--	--

thod: PROFCLP2 Standard: FURNH

lem	As1890	2203/1	2203/2	1960/1	1960/2	T11908
vge	1.1241	4.9006	2.1869	.69883	.53251	1.8511
Dev	.0084	.0493	.0168	.00718	.00514	.0013
RSD	.74844	1.0064	.76907	1.0271	.96546	.06941
1	1.1305	4.9506	2.2054	.70398	.53485	1.8525
2	1.1273	4.8992	2.1828	.70189	.53607	1.8501
3	1.1146	4.8520	2.1726	.69063	.52662	1.8505

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29222	--	--	--	--	--	--
Dev	25.27660	--	--	--	--	--	--
RSD	.0864989	--	--	--	--	--	--
1	29220	--	--	--	--	--	--
2	29248	--	--	--	--	--	--
3	29198	--	--	--	--	--	--

thod: PROFCLP2 Standard: MULTIH

m	B	Ba	Be	Cd	Co	Cr	Cu
vge	1.312	6.212	7.424	69.64	2.070	2.420	1.500
Dev	.002	.009	.017	.24	.006	.006	.002
D	.1875	.1475	.2225	.3508	.2853	.2590	.1345
1	1.310	6.206	7.408	69.37	2.065	2.413	1.499
2	1.311	6.222	7.422	69.71	2.069	2.422	1.502
3	1.314	6.208	7.441	69.84	2.077	2.425	1.499

lem	Mn	Ni	Sn	Ti	V	Zn	Si2881
e	17.46	1.984	.0156	2.245	1.133	3.898	.0770
v	.04	.006	.0037	.004	.002	.011	.0006
RSD	.2468	.2849	23.83	.1627	.1707	.2857	.8494
1	17.42	1.978	.0121	2.241	1.131	3.886	.0762
2	17.44	1.988	.0195	2.247	1.134	3.899	.0772
3	17.51	1.987	.0153	2.247	1.135	3.908	.0775

m	Mo2020
vge	2.260
v	.006
D	.2762
1	2.253
2	2.265
3	2.263

Std	1	2	3	4	5	6	7
e	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
e	29216	--	--	--	--	--	--
v	65.85349	--	--	--	--	--	--
RSD	.2253996	--	--	--	--	--	--
1	29258	--	--	--	--	--	--
2	29140	--	--	--	--	--	--
3	29251	--	--	--	--	--	--

M 0059

thod: PROFCLP2 Standard: FeNaL

lem	Fe	Na
vge	41.43	26.48
Dev	.04	.03
RSD	.0956	.1114
1	41.39	26.46
2	41.46	26.52
3	41.44	26.48

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29791	--	--	--	--	--	--
Dev	10.50397	--	--	--	--	--	--
RSD	.0352592	--	--	--	--	--	--
1	29801	--	--	--	--	--	--
2	29780	--	--	--	--	--	--
3	29790	--	--	--	--	--	--

thod: PROFCLP2 Standard: NAK100

	K	Na
m		
vge	16.21	5.340
Dev	.16	.052
SD	.9800	.9723
1	16.04	5.282
	16.25	5.356
	16.35	5.382

ntStd	1	2	3	4	5	6	7
le	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
e	29131	--	--	--	--	--	--
v	272.2664	--	--	--	--	--	--
RSD	.9346384	--	--	--	--	--	--
	29399	--	--	--	--	--	--
	29138	--	--	--	--	--	--
3	28855	--	--	--	--	--	--

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:thod: PROFCLP2 Slope = Conc(SIR)/IR

.ement	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
;	328.068	AGSBH	BLANK	2696.38	.342455	02/15/97 12:02:53
.	308.215	ICSH	BLANK	1.11312	-.000878	02/15/97 12:02:53
;1890	189.042	FURNH	BLANK	888.081	1.67013	02/15/97 12:02:53
	249.678	MULTIH	BLANK	3.81847	-.008638	02/15/97 12:02:53
ı	493.409	MULTIH	BLANK	.804900	.000000	02/15/97 12:02:53
;	313.042	MULTIH	BLANK	.673387	.001080	02/15/97 12:02:53
ı	317.933	ICSH	BLANK	1.06294	-.003444	02/15/97 12:02:53
!	226.502	MULTIH	BLANK	.071801	-.000060	02/15/97 12:02:53
;	228.616	MULTIH	BLANK	2.41523	-.000055	02/15/97 12:02:53
-	267.716	MULTIH	BLANK	2.06669	-.000883	02/15/97 12:02:53
ı	324.754	MULTIH	BLANK	3.33989	-.009097	02/15/97 12:02:53
;	271.441	ICSH	BLANK	1.05577	-.000020	02/15/97 12:02:53
;	259.940	FeNaL	BLANK	.121032	-.014117	02/15/97 12:02:53
	766.491	NAK100	BLANK	.940453	.003342	02/15/97 12:02:53
!	279.079	ICSH	BLANK	1.13121	-.003448	02/15/97 12:02:53
ı	257.610	MULTIH	BLANK	.286418	-.000222	02/15/97 12:02:53
ı	330.232	NAK100	BLANK	1.23615	.004969	02/15/97 12:02:53
ı	588.995	FeNaL	BLANK	.193109	-.114121	02/15/97 12:02:53
.	231.604	MULTIH	BLANK	2.51989	-.000553	02/15/97 12:02:53
:03/1	220.351	FURNH	BLANK	204.759	-3.44686	02/15/97 12:02:53
:03/2	220.352	FURNH	BLANK	457.064	.426357	02/15/97 12:02:53
;2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
;2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
-1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
;68/1	206.831	AGSBH	BLANK	594.150	3.43783	02/15/97 12:02:53
;68/2	206.832	AGSBH	BLANK	1155.83	-.409770	02/15/97 12:02:53
;60/1	196.021	FURNH	BLANK	1414.10	11.7799	02/15/97 12:02:53
;60/2	196.022	FURNH	BLANK	1890.27	-6.58564	02/15/97 12:02:53
ı	189.989	MULTIH	BLANK	436.351	-1.81766	02/15/97 12:02:53
.	334.941	MULTIH	BLANK	2.22722	-.000180	02/15/97 12:02:53
.1908	190.864	FURNH	BLANK	537.566	4.93390	02/15/97 12:02:53
	292.402	MULTIH	BLANK	4.41241	-.000255	02/15/97 12:02:53
ı	213.856	MULTIH	BLANK	1.28412	-.002312	02/15/97 12:02:53
.2881	288.158	MULTIH	BLANK	96.7275	-2.44367	02/15/97 12:02:53
:2020	202.030	MULTIH	BLANK	2.21241	-.000894	02/15/97 12:02:53

thod: PROFCLP2

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	328.068	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000

ement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	308.215	BLANK	.005121	.005389	-.000268
		ICSH	39.3755	35.3749	4.00064

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
90	189.042	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000

ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	249.678	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	493.409	BLANK	.000000	.000000	.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	313.042	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ment	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	317.933	BLANK	.008332	.011078	-.002747
		ICSH	57.6991	54.2859	3.41311

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	226.502	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	228.616	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	267.716	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	324.754	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
e	271.441	BLANK	-.000020	.000000	-.000020
		ICSH	.629186	.595968	.033219

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
e	259.940	BLANK	.000000	-.000000	.000000
		FeNaL	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	766.491	BLANK	.010821	.007952	.002869
		NAK100	15.2509	16.2130	-.962090

lement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
g	279.079	BLANK	.000441	.003438	-.002997
		ICSH	70.1095	61.9805	8.12901

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
n	257.610	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
a	330.232	BLANK	-.048764	-.043468	-.005296
		NAK100	6.60571	5.33978	1.26593

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
a	588.995	BLANK	.000000	.000000	-.000000
		FeNaL	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
i	231.604	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
203/1	220.351	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
203/2	220.352	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
b2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
68	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
/1	206.831	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
6/2	206.832	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
/1	196.021	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
/2	196.022	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	189.989	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	334.941	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1908	190.864	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	-.000061

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	292.402	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ent	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	213.856	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00300	-.003000

M 0075

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2881	288.158	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2020	202.030	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

thod: PROFCLP2 Sample Name: ICV Operator:
n Time: 02/15/97 12:08:54
ment:
d: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
ge	1023.3	50.17	517.26	2.660	2.617	2.627	48.24
v	.5	.13	2.71	.008	.000	.007	.16
D	.04740	.2660	.52356	.2910	.0150	.2479	.3265
	1022.9	50.17	518.41	2.651	2.616	2.621	48.08
	1023.1	50.04	514.16	2.667	2.617	2.626	48.23
	1023.8	50.31	519.20	2.661	2.616	2.634	48.40
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
w	900.00	45.00	450.00	2.250	2.250	2.250	45.00

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	2.559	2.495	2.566	2.568	49.47	85.96	48.78
v	.012	.006	.008	.001	.16	.16	.12
D	.4651	.2589	.2925	.0534	.3245	.1822	.2411
	2.548	2.489	2.560	2.570	49.39	86.12	48.66
	2.556	2.495	2.563	2.568	49.37	85.81	48.79
	2.572	2.502	2.574	2.567	49.66	85.96	48.89
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	2.750	2.750	2.750	2.750	55.00	88.00	55.00
w	2.250	2.250	2.250	2.250	45.00	72.00	45.00

m	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
ge	2.521	86.67	2.488	480.77	474.37	476.50	1030.1
v	.005	.08	.010	2.68	2.04	1.96	8.1
D	.1967	.0896	.3937	.55663	.42907	.41159	.78734
	2.517	86.65	2.478	480.17	472.15	474.82	1025.7
	2.520	86.75	2.489	478.45	474.83	476.04	1025.2
	2.526	86.60	2.498	483.70	476.14	478.66	1039.5
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
h	2.750	88.00	2.750			550.00	1100.0
w	2.250	72.00	2.250			450.00	900.00

m	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
ge	512.14	1020.2	1035.1	518.44	509.00	3154.	2.592
v	3.47	3.7	10.3	4.80	3.76	10.	.003
D	.67763	.36608	.99620	.92582	.73948	.3162	.1037
	509.34	1018.6	1029.2	518.16	504.93	3143.	2.590
	511.07	1017.5	1029.1	513.78	509.71	3160.	2.592
	516.02	1024.5	1047.0	523.37	512.35	3160.	2.595
ors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h	550.00						

P 3077

ow	450.00						
lem	T11908	V	Zn	Si2881	Mo2020		
nits	ppb	ppm	ppm	ppm	ppm		
vge	497.26	2.541	2.639	52.04	2.587		
Dev	3.74	.003	.007	.05	.011		
RSD	.75227	.1262	.2520	.1044	.4134		
1	493.28	2.539	2.632	51.98	2.578		
2	500.71	2.540	2.638	52.09	2.583		
3	497.80	2.545	2.646	52.05	2.599		
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	550.00	2.750	2.750				
ow	450.00	2.250	2.250				
ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	28526	--	--	--	--	--	--
Dev	47.04593	--	--	--	--	--	--
RSD	.1649245	--	--	--	--	--	--
1	28473	--	--	--	--	--	--
2	28541	--	--	--	--	--	--
3	28563	--	--	--	--	--	--

M 0078

thod: PROFCLP2 Sample Name: ICVL Operator:
Time: 02/15/97 12:16:12
ent:
: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
ge	.37483	-.0050	.07936	.0005	.0015	.0014	-.0042
ev	.36815	.0062	2.1011	.0006	.0002	.0002	.0025
D	98.219	125.0	2647.4	112.5	12.99	12.91	60.83
1	.76934	-.0008	-2.3467	.0012	.0017	.0015	-.0026
	.04044	-.0020	1.2765	.0001	.0015	.0014	-.0028
	.31470	-.0121	1.3083	.0003	.0013	.0012	-.0071
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h							
w							

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	.0015	.0015	.0014	.0016	2.574	.0802	.0135
ev	.0004	.0002	.0001	.0001	.000	.0043	.0006
D	26.72	11.38	4.670	6.203	.0054	5.426	4.616
1	.0017	.0016	.0015	.0017	2.574	.0844	.0137
	.0017	.0017	.0013	.0015	2.574	.0804	.0141
	.0010	.0013	.0014	.0015	2.574	.0757	.0129
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
h					2.750		
w					2.250		

m	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
ge	.0012	2.622	.0024	-.57165	-.15481	-.29331	1.7591
ev	.0001	.010	.0007	1.71316	.84138	.76568	1.0554
D	11.44	.3763	30.30	299.69	543.50	261.04	59.996
1	.0013	2.617	.0021	1.0820	.30779	.56592	1.7633
	.0013	2.634	.0018	-2.3387	.35378	-.54250	.70161
	.0011	2.616	.0032	-.45833	-1.1260	-.90336	2.8123
ors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h		2.750					
w		2.250					

m	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
ge	1.4487	2.4341	1.4216	3.2973	.52533	.8537	.0015
ev	2.1354	1.4934	2.1996	1.8723	2.9893	1.020	.0003
D	147.40	61.351	154.73	56.781	569.03	119.5	16.99
1	2.9046	1.2970	1.9957	5.3880	1.6643	-.2866	.0017
	2.4442	4.1254	-1.0081	1.7753	2.7777	1.166	.0017
	-1.0027	1.8801	3.2773	2.7287	-2.8660	1.681	.0012
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h							

ow

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	3.3896	.0015	.0017	-.0547	.0035
Dev	.5978	.0003	.0002	.0043	.0012
RSD	17.636	20.69	12.61	7.862	33.06
1	3.9418	.0018	.0020	-.0587	.0049
2	2.7548	.0016	.0018	-.0501	.0029
3	3.4723	.0012	.0015	-.0553	.0028
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh					
ow					

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29625	--	--	--	--	--	--
Dev	74.84199	--	--	--	--	--	--
RSD	.2526340	--	--	--	--	--	--
1	29647	--	--	--	--	--	--
2	29541	--	--	--	--	--	--
3	29686	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: ICB Operator:
Time: 02/15/97 12:23:29
ent:
: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
ge	-.07774	-.0220	-.49504	.0008	.0005	.0004	-.0216
v	.34059	.0032	.44096	.0002	.0002	.0001	.0020
D	438.10	14.73	89.076	24.45	34.76	28.96	9.412
	-.46760	-.0200	-.67181	.0009	.0006	.0005	-.0193
	.16205	-.0203	.00688	.0006	.0005	.0004	-.0224
	.07232	-.0258	-.82018	.0008	.0003	.0003	-.0232
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	10.000	.2000	10.000	.0200	.2000	.0050	.2000
w	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	.0005	.0007	.0006	.0003	-.0019	.0344	-.0056
v	.0001	.0005	.0002	.0002	.0023	.0138	.0039
D	11.05	67.06	41.03	46.26	122.6	39.94	69.59
	.0005	.0012	.0008	.0005	.0005	.0480	-.0020
	.0005	.0007	.0006	.0002	-.0019	.0348	-.0049
	.0004	.0003	.0004	.0004	-.0041	.0205	-.0097
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	.0050	.0500	.0100	.0250	.1000	5.000	.2000
w	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

m	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
ge	.0005	.0145	.0010	-1.3878	.74767	.03687	1.9492
v	.0002	.0043	.0001	.7268	1.0449	.86443	.8132
D	34.29	30.03	4.853	52.372	139.76	2344.5	41.719
	.0007	.0192	.0010	-.78119	.60596	.14434	1.7738
	.0005	.0134	.0010	-2.1934	-.21915	-.87627	1.2380
	.0003	.0107	.0010	-1.1889	1.8562	.84255	2.8358
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
h	.0150	5.000	.0400			3.0000	60.000
w	-.0150	-5.000	-.0400			-3.0000	-60.000

m	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
ge	1.0026	1.2613	2.2922	1.0248	.99108	.8494	.0004
v	.9205	.1803	1.1492	2.3863	2.5401	1.632	.0001
D	91.816	14.297	50.134	232.85	256.30	192.1	25.78
	1.5499	1.3553	1.9823	.40351	2.1218	2.567	.0006
	1.5181	1.0534	1.3298	-.98935	2.7695	.6632	.0004
	-.06019	1.3752	3.5646	3.6604	-1.9181	-.6815	.0003
ors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h	5.0000						

ow	-5.0000				
lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	2.0372	.0005	.0007	-.0291	.0013
Dev	.2879	.0001	.0001	.0482	.0004
RSD	14.132	15.94	18.03	165.7	35.39
1	2.3684	.0005	.0009	.0264	.0018
2	1.8958	.0005	.0007	-.0530	.0012
3	1.8473	.0006	.0006	-.0606	.0009
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
igh	10.000	.0500	.0200		
ow	-10.000	-.0500	-.0200		

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29938	--	--	--	--	--	--
Dev	32.17056	--	--	--	--	--	--
RSD	.1074575	--	--	--	--	--	--
1	29957	--	--	--	--	--	--
2	29901	--	--	--	--	--	--
3	29956	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CRII Operator:
n Time: 02/15/97 12:30:46
ment:
e: CONC Corr. Factor: 1

em	Ag	Al	As1890	B	Ba	Be	Ca
its	ppb	ppm	ppb	ppm	ppm	ppm	ppm
ge	19.319	-.0278	19.068	.1974	.0001	.0103	-.0244
Dev	.136	.0025	.901	.0018	.0000	.0001	.0003
SD	.70478	9.025	4.7269	.8856	32.14	.7935	1.326
1	19.429	-.0258	18.650	.1956	.0002	.0102	-.0245
	19.167	-.0269	18.452	.1975	.0001	.0103	-.0241
	19.361	-.0306	20.103	.1991	.0001	.0104	-.0247

lem	Cd	Co	Cr	Cu	Fe	K	Mg
its	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ge	.0106	.1026	.0204	.0492	-.0077	.0003	-.0145
Dev	.0001	.0008	.0003	.0007	.0007	.0023	.0013
SD	.5624	.7712	1.458	1.393	9.763	868.0	8.795
	.0106	.1017	.0201	.0485	-.0069	-.0015	-.0131
2	.0106	.1027	.0206	.0495	-.0078	.0029	-.0154
	.0107	.1033	.0207	.0497	-.0084	-.0006	-.0151

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
its	ppm	ppm	ppm	ppb	ppb	ppb	ppb
e	.0309	.0065	.0833	3.7168	6.3818	5.4946	122.51
ev	.0002	.0015	.0003	.4186	.8132	.6790	3.23
SD	.7321	22.99	.3934	11.263	12.743	12.357	2.6397
	.0306	.0076	.0831	3.2407	5.5171	4.7594	118.77
2	.0308	.0072	.0831	3.8823	6.4970	5.6266	124.37
	.0311	.0048	.0836	4.0274	7.1312	6.0980	124.38

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
its	ppb	ppb	ppb	ppb	ppb	ppm	ppm
e	9.1299	122.18	122.67	11.704	7.8442	-.7730	.0001
v	.7025	1.37	4.18	2.368	1.2311	.7615	.0001
SD	7.6947	1.1192	3.4100	20.228	15.694	98.51	77.56
	9.4958	120.63	117.84	14.434	7.0303	-1.096	.0003
2	9.5739	123.23	124.94	10.201	9.2605	-1.320	.0000
3	8.3200	122.67	125.23	10.479	7.2418	.0968	.0001

m	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
e	21.772	.0998	.0422	2.306	.0200
v	.694	.0011	.0005	.094	.0004
SD	3.1879	1.080	1.115	4.079	1.848
	21.530	.0987	.0416	2.199	.0196
	21.232	.0997	.0425	2.345	.0201
3	22.555	.1009	.0423	2.375	.0203

M 0083

thod: PROFCLP2 Sample Name: ICSAI Operator:
n Time: 02/15/97 12:38:03
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	1.4724	507.7	.94670	.0004	.0074	.0004	520.4
Dev	.4340	6.4	1.8581	.0006	.0001	.0000	5.1
RSD	29.479	1.259	196.27	146.2	1.345	4.826	.9734
1	1.6947	515.0	2.7328	.0009	.0075	.0004	526.2
2	1.7502	503.1	1.0833	.0007	.0073	.0004	516.8
3	.97221	504.9	-.97596	-.0003	.0073	.0004	518.1
rrors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
igh	10.000	600.0			.2000	.0050	600.0
ow	-10.000	400.0			-.2000	-.0050	400.0

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0009	.0019	-.0014	.0086	208.8	.0095	517.3
Dev	.0002	.0003	.0002	.0003	2.4	.0111	4.9
RSD	18.59	14.83	11.33	3.162	1.147	116.9	.9437
1	.0011	.0022	-.0014	.0089	211.5	.0061	522.9
2	.0009	.0020	-.0012	.0084	207.1	.0218	513.7
3	.0008	.0016	-.0015	.0084	207.8	.0004	515.3
rrors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
igh	.0050		.0100		240.0		600.0
ow	-.0050		-.0100		160.0		400.0

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	-.0010	.0369	.0025	1.8945	-1.7850	-.55937	-.36687
Dev	.0009	.0050	.0006	1.0254	2.0492	1.34135	2.09184
RSD	97.22	13.55	24.91	54.125	114.80	239.80	570.18
1	.0001	.0318	.0019	2.9524	-1.1635	.20746	-1.9052
2	-.0014	.0372	.0032	1.8262	-4.0730	-2.1082	2.0150
3	-.0016	.0418	.0025	.90495	-.11857	.22263	-1.2104
rrors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
igh	.0150		.0400			6.0000	60.000
ow	-.0150		-.0400			-6.0000	-60.000

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	H6.5685	-1.1252	.01122	6.8975	6.4038	-47.90	-.0150
Dev	4.4012	.9343	2.7746	5.6704	4.1855	1.70	.0002
RSD	67.004	83.034	24733.	82.210	65.358	3.546	1.173
1	1.5006	-2.1718	-1.7727	1.1495	1.6754	-45.99	-.0152
2	H9.4295	-.37530	3.2079	12.487	7.9025	-49.24	-.0148
3	H8.7756	-.82843	-1.4016	7.0559	9.6336	-48.48	-.0149
rrors	LC High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh	5.0000						

-5.0000

m	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
e	1.7415	-.0023	.0128	.0881	-.0005
v	2.3564	.0003	.0005	.0900	.0004
RSD	135.31	14.95	3.722	102.2	67.90
	-.51556	-.0019	.0133	.1863	-.0006
	4.1861	-.0025	.0126	.0095	-.0002
3	1.5540	-.0025	.0124	.0684	-.0009
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
igh	10.000	.0500	.0200		
	-10.000	-.0500	-.0200		

Std	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--
vge	27043	--	--	--	--	--	--
v	264.3626	--	--	--	--	--	--
D	.9775638	--	--	--	--	--	--
1	26738	--	--	--	--	--	--
	27206	--	--	--	--	--	--
	27185	--	--	--	--	--	--

M 0095

thod: PROFCLP2 Sample Name: ICSABI Operator:
n Time: 02/15/97 12:45:25
mment:
ie: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	1096.6	518.2	1061.3	1.083	.5503	.5370	528.0
Dev	10.9	6.3	10.7	.013	.0059	.0063	7.0
RSD	.99478	1.217	1.0106	1.167	1.064	1.169	1.334
1	1109.2	525.3	1073.5	1.098	.5571	.5441	536.0
2	1090.9	515.7	1057.1	1.076	.5469	.5344	525.3
3	1089.8	513.5	1053.3	1.077	.5470	.5324	522.7
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
ow	800.00	400.0	800.00	.8000	.4000	.4000	400.0

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.9852	.4754	.5047	.5677	213.0	.0064	525.3
Dev	.0136	.0056	.0053	.0060	3.3	.0065	6.4
RSD	1.384	1.181	1.047	1.065	1.549	100.7	1.216
1	1.001	.4817	.5107	.5747	216.7	-.0010	532.6
2	.9804	.4736	.5026	.5638	211.9	.0096	522.5
3	.9745	.4709	.5008	.5647	210.3	.0107	520.7
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
igh	1.200	.6000	.6000	.6000	240.0		600.0
ow	.8000	.4000	.4000	.4000	160.0		400.0

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.4967	.0561	.9506	918.19	920.70	919.86	-5.9935
Dev	.0063	.0020	.0132	8.97	13.16	10.35	1.4959
RSD	1.266	3.644	1.385	.97722	1.4289	1.1254	24.958
1	.5040	.0571	.9654	926.38	934.07	931.51	-4.3550
2	.4939	.0574	.9461	908.60	920.26	916.38	-6.3393
3	.4924	.0537	.9402	919.59	907.77	911.71	-7.2862
rrors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
igh	.6000		1.200			1200.0	
ow	.4000		.8000			800.00	

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	1027.9	-3.6447	-7.1666	1035.9	1023.9	-51.03	-.0149
Dev	13.2	6.0295	3.0017	13.6	14.4	3.67	.0002
RSD	1.2888	165.43	41.884	1.3084	1.4077	7.195	1.609
1	1043.1	-3.2010	-4.9317	1049.0	1040.2	-47.34	-.0151
2	1019.5	2.1506	-10.578	1021.9	1018.3	-54.68	-.0147
3	1021.0	-9.8838	-5.9898	1036.8	1013.1	-51.05	-.0150
rrors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh	1200.0						

	800.00				
m	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
e	927.75	.5050	1.072	1.014	1.038
v	10.66	.0060	.012	.016	.014
RSD	1.1494	1.180	1.137	1.538	1.331
	939.25	.5116	1.086	1.030	1.054
	925.84	.5033	1.066	.9992	1.032
3	918.18	.5000	1.064	1.013	1.028
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
igh	1200.0	.6000	1.200		
	800.00	.4000	.8000		

StdNo	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--
vge	26454	--	--	--	--	--	--
v	119.2742	--	--	--	--	--	--
D	.4508683	--	--	--	--	--	--
1	26340	--	--	--	--	--	--
2	26578	--	--	--	--	--	--
3	26445	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CCV1 Operator:
n Time: 02/15/97 12:52:42
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	1010.1	49.63	516.88	2.635	2.569	2.613	48.13
Dev	2.8	.09	1.39	.002	.007	.005	.12
RSD	.27237	.1807	.26799	.0829	.2797	.1834	.2407
1	1012.0	49.64	518.15	2.638	2.575	2.613	48.09
2	1011.5	49.72	517.08	2.634	2.571	2.617	48.26
3	1007.0	49.54	515.40	2.634	2.561	2.608	48.03
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
ow	900.00	45.00	450.00	2.250	2.250	2.250	45.00

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	2.572	2.482	2.550	2.522	49.39	84.49	48.80
Dev	.010	.003	.006	.007	.16	.31	.10
RSD	.3863	.1344	.2369	.2584	.3207	.3621	.2005
1	2.565	2.482	2.550	2.530	49.34	84.84	48.84
2	2.584	2.485	2.557	2.520	49.56	84.30	48.88
3	2.569	2.478	2.545	2.517	49.25	84.32	48.69
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	2.750	2.750	2.750	2.750	55.00	88.00	55.00
ow	2.250	2.250	2.250	2.250	45.00	72.00	45.00

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	2.501	85.64	2.495	478.04	472.70	474.48	1017.4
Dev	.005	.12	.010	3.28	.96	.72	1.5
RSD	.1848	.1450	.3837	.68690	.20326	.15185	.14322
1	2.502	85.76	2.488	481.15	472.39	475.31	1016.6
2	2.505	85.66	2.506	474.60	473.77	474.05	1016.6
3	2.496	85.51	2.490	478.36	471.93	474.07	1019.1
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
igh	2.750	88.00	2.750			550.00	1100.0
ow	2.250	72.00	2.250			450.00	900.00

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	511.76	1012.3	1020.0	518.69	508.30	3135.	2.557
Dev	.66	2.6	2.5	1.94	.68	4.	.006
RSD	.12983	.26146	.24520	.37370	.13359	.1372	.2390
1	512.07	1009.6	1020.1	518.06	509.08	3134.	2.561
2	511.00	1014.9	1017.4	517.15	507.93	3139.	2.560
3	512.21	1012.4	1022.4	520.87	507.89	3131.	2.550
rrors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh	550.00						

	450.00						
m	Tl1908	V	Zn	Si2881	Mo2020		
nits	ppb	ppm	ppm	ppm	ppm		
e	497.63	2.517	2.625	51.57	2.572		
v	1.36	.007	.004	.15	.009		
RSD	.27422	.2603	.1405	.2846	.3428		
	496.79	2.522	2.625	51.58	2.568		
2	499.20	2.520	2.629	51.71	2.582		
3	496.89	2.510	2.622	51.41	2.565		
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	550.00	2.750	2.750				
	450.00	2.250	2.250				
tStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--
vge	29347	--	--	--	--	--	--
v	111.8104	--	--	--	--	--	--
D	.3809935	--	--	--	--	--	--
1	29218	--	--	--	--	--	--
	29414	--	--	--	--	--	--
	29409	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CCVL1 Operator:
n Time: 02/15/97 12:59:59
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	.28611	.0587	-.37577	.0002	.0013	.0013	.0420
Dev	.05112	.0215	.54371	.0005	.0002	.0002	.0150
RSD	17.866	36.72	144.69	240.9	13.77	14.16	35.77
1	.22709	.0769	.25189	.0007	.0015	.0014	.0563
2	.31570	.0644	-.67724	.0002	.0013	.0013	.0432
3	.31555	.0349	-.70197	-.0003	.0012	.0011	.0264
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh							
ow							

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0014	.0013	.0012	.0010	2.585	.0587	.0679
Dev	.0003	.0002	.0003	.0002	.014	.0102	.0156
RSD	25.32	11.92	25.51	20.13	.5308	17.45	23.02
1	.0016	.0015	.0015	.0012	2.599	.0704	.0832
2	.0016	.0012	.0012	.0008	2.585	.0541	.0687
3	.0010	.0013	.0009	.0011	2.571	.0515	.0519
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
igh					2.750		
ow					2.250		

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0010	2.577	.0014	-.11575	.72621	.44615	.46252
Dev	.0002	.018	.0005	.71454	.83866	.78765	.92053
RSD	17.62	.6952	34.14	617.30	115.48	176.54	199.02
1	.0013	2.598	.0018	-.76021	.21549	-.10908	1.5201
2	.0010	2.565	.0016	.65265	1.6941	1.3476	.02577
3	.0009	2.569	.0009	-.23970	.26903	.09992	-.15833
rrors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh		2.750					
ow		2.250					

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	-.47232	1.5468	-.07921	.95824	-1.1869	.7935	.0013
Dev	1.14197	.9215	1.71043	2.9008	2.6202	.7620	.0003
RSD	241.78	59.576	2159.3	302.72	220.75	96.02	20.33
1	-1.6553	.95416	1.8023	.69631	-2.8297	1.559	.0015
2	-.38545	1.0778	-.49985	3.9811	-2.5659	.0346	.0014
3	.62373	2.6085	-1.5401	-1.8027	1.8347	.7875	.0010
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh							

em	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
ge	3.8068	.0012	.0015	-.1402	.0031
ev	1.4085	.0003	.0003	.0288	.0013
RSD	36.999	25.51	18.10	20.54	40.79
	4.4077	.0014	.0018	-.1120	.0045
2	4.8153	.0013	.0014	-.1390	.0027
3	2.1976	.0008	.0013	-.1696	.0021
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

igh

tStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
em	Y	--	--	--	--	--	--
vlen	371.030	--	--	--	--	--	--
vge	30010	--	--	--	--	--	--
ev	98.62022	--	--	--	--	--	--
SD	.3286296	--	--	--	--	--	--
1	30118	--	--	--	--	--	--
	29924	--	--	--	--	--	--
	29987	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CCB1 Operator:
n Time: 02/15/97 13:07:17
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	-.10277	-.0069	.33110	.0009	.0004	.0003	-.0117
Dev	.08926	.0054	1.8975	.0003	.0002	.0001	.0054
RSD	86.857	78.51	573.11	31.11	36.34	39.74	46.38
1	-.10344	-.0013	1.6113	.0011	.0006	.0005	-.0062
2	-.19170	-.0072	-1.8490	.0006	.0004	.0003	-.0117
3	-.01317	-.0121	1.2309	.0009	.0003	.0002	-.0170
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	10.000	.2000	10.000	.0200	.2000	.0050	.2000
ow	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0005	.0006	.0004	-.0001	.0036	.0221	.0080
Dev	.0001	.0003	.0003	.0001	.0039	.0082	.0079
RSD	20.63	58.13	70.81	113.4	107.6	37.07	98.57
1	.0006	.0009	.0006	-.0000	.0077	.0301	.0159
2	.0004	.0005	.0006	-.0001	.0032	.0226	.0080
3	.0005	.0003	.0001	-.0003	-.0001	.0137	.0001
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	.0050	.0500	.0100	.0250	.1000	5.000	.2000
ow	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0004	.0135	.0006	-.36073	-.32962	-.33965	1.1656
Dev	.0002	.0033	.0005	1.26524	1.07221	.31987	.2608
RSD	37.15	24.42	84.99	350.75	325.28	94.177	22.374
1	.0006	.0171	.0008	-.74368	.25960	-.07416	.87150
2	.0005	.0129	.0010	1.0518	-1.5672	-.69478	1.2567
3	.0003	.0106	.0000	-1.3903	.31876	-.25001	1.3687
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
igh	.0150	5.000	.0400			3.0000	60.000
ow	-.0150	-5.000	-.0400			-3.0000	-60.000

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	.38666	.64945	1.4229	1.5540	-.19654	.3780	.0003
Dev	.24434	1.5650	.4052	2.2313	.83029	.2933	.0001
RSD	63.193	240.97	28.476	143.58	422.45	77.59	22.22
1	.65865	-1.0053	1.8081	4.0123	-1.0161	.6223	.0004
2	.18571	.84797	1.4603	.99292	-.21769	.4589	.0003
3	.31563	2.1057	1.0003	-.34312	.64412	.0527	.0003
rrors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh	5.0000						

M 0092

ow	-5.0000				
m	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
ge	1.8987	.0003	.0004	-.0360	.0009
v	.7718	.0003	.0002	.0133	.0003
SD	40.648	88.63	41.65	37.02	30.94
1	1.6977	.0003	.0004	-.0273	.0012
2	2.7511	.0000	.0006	-.0513	.0006
3	1.2473	.0006	.0002	-.0293	.0008
rs	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
igh	10.000	.0500	.0200		
ow	-10.000	-.0500	-.0200		

Std	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--
ge	30278	--	--	--	--	--	--
v	53.00241	--	--	--	--	--	--
D	.1750522	--	--	--	--	--	--
1	30223	--	--	--	--	--	--
2	30283	--	--	--	--	--	--
3	30328	--	--	--	--	--	--

ethod: PROFCLP2 Sample Name: PBW Operator:
un Time: 02/15/97 13:14:35
omment:
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.04659	-.0191	-.57806	.0191	.0003	.0001	-.0241
SDev	.20619	.0009	1.08798	.0005	.0000	.0000	.0022
%RSD	442.58	4.576	188.21	2.586	16.11	22.78	8.962
#1	-.28468	-.0198	-.24751	.0186	.0003	.0001	-.0218
#2	.07269	-.0181	-1.7930	.0196	.0002	.0001	-.0245
#3	.07222	-.0195	.30630	.0190	.0002	.0000	-.0261
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0002	-.0001	-.0001	-.0061	.0069	-.0074
SDev	.0001	.0001	.0001	.0001	.0013	.0040	.0009
%RSD	161.7	43.51	108.7	147.2	21.89	57.14	12.78
#1	.0001	.0001	.0000	-.0002	-.0046	.0081	-.0066
#2	-.0000	.0002	-.0003	.0000	-.0063	.0025	-.0084
#3	.0001	.0003	-.0001	-.0001	-.0072	.0101	-.0071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	-.0000	.0750	-.0002	-2.1571	.20988	-.57800	-.05612
SDev	.0000	.0002	.0004	1.2058	.75500	.11335	.48581
%RSD	185.0	.3206	200.6	55.900	359.72	19.611	865.68
#1	.0000	.0753	.0000	-2.8752	.57486	-.57367	.43945
#2	-.0000	.0749	-.0007	-.76498	-.65825	-.69346	-.07627
#3	-.0001	.0749	.0000	-2.8313	.71305	-.46688	-.53154
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.0150	5.000	.0400			3.0000	60.000
Low	-.0150	-5.000	-.0400			-3.0000	-60.000

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	-.42991	.88255	-.52515	1.2717	-1.2798	-.3137	.0002
SDev	2.11859	1.3470	.06695	2.5270	3.0056	1.7898	.0001
%RSD	492.80	152.63	12.748	198.71	234.84	570.5	38.36
#1	1.7550	2.2931	-.48640	3.3712	.94768	1.386	.0003
#2	-2.4753	.74480	-.48660	1.9768	-4.6984	-.1452	.0002
#3	-.56945	-.39029	-.60245	-1.5329	-.08884	-2.182	.0001
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	5.0000						

v -5.0000

iem	Tl1908	V	Zn	Si2881	Mo2020		
nits	ppb	ppm	ppm	ppm	ppm		
ge	.59370	.0001	.0031	7.091	.0004		
ev	1.2391	.0002	.0001	.018	.0003		
RSD	208.71	253.8	3.248	.2598	77.70		
	1.2548	.0000	.0032	7.077	.0007		
2	-.83574	-.0001	.0032	7.083	.0001		
3	1.3620	.0003	.0030	7.112	.0005		
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	10.000	.0500	.0200				
v	-10.000	-.0500	-.0200				
ntStd	1	2	3	4	5	6	7
de	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
em	Y	--	--	--	--	--	--
vlen	371.030	--	--	--	--	--	--
vge	30020	--	--	--	--	--	--
ev	75.63524	--	--	--	--	--	--
SD	.2519517	--	--	--	--	--	--
	30102	--	--	--	--	--	--
	30003	--	--	--	--	--	--
	29954	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: PBS Operator:
n Time: 02/15/97 13:22:45
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	-.19834	-.0261	-1.2537	-.0040	.0001	.0000	.0274
Dev	.38965	.0009	1.4763	.0003	.0001	.0000	.0009
RSD	196.45	3.287	117.76	7.667	120.3	224.0	3.356
1	.06907	-.0252	-1.1794	-.0043	.0001	.0000	.0282
2	-.01869	-.0261	.18406	-.0037	.0001	.0000	.0276
3	-.64540	-.0269	-2.7657	-.0041	-.0000	-.0000	.0264
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	10.000	.2000	10.000	.0200	.2000	.0050	.2000
ow	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	-.0001	-.0001	.0012	-.0005	-.0076	.0171	-.0082
Dev	.0001	.0003	.0004	.0002	.0003	.0182	.0028
RSD	83.76	346.5	37.20	36.58	4.104	106.5	34.26
1	-.0000	-.0001	.0016	-.0003	-.0073	.0267	-.0080
2	-.0001	.0002	.0013	-.0006	-.0075	.0286	-.0055
3	-.0003	-.0004	.0007	-.0006	-.0079	-.0039	-.0111
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	.0050	.0500	.0100	.0250	.1000	5.000	.2000
ow	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0001	.0329	.0006	2.7695	-.61361	.51328	1.3284
Dev	.0002	.0034	.0006	.5962	1.27596	.65650	1.2583
RSD	315.6	10.31	96.30	21.527	207.94	127.90	94.720
1	.0002	.0290	.0011	2.3369	.09796	.84382	-.04789
2	.0002	.0342	.0008	3.4496	-2.0867	-.24279	1.6134
3	-.0002	.0354	-.0000	2.5221	.14790	.93882	2.4198
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
igh	.0150	5.000	.0400			3.0000	60.000
ow	-.0150	-5.000	-.0400			-3.0000	-60.000

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	1.0471	-.11420	2.0482	-.01925	1.5791	8.345	.0001
Dev	2.0856	.48738	1.7532	.32715	3.2847	2.792	.0001
RSD	199.17	426.77	85.596	1699.5	208.01	33.45	167.0
1	1.3645	-.57544	.21509	.03096	2.0299	7.187	.0002
2	-1.1789	.39567	2.2209	.27989	-1.9077	11.53	-.0000
3	2.9558	-.16283	3.7088	-.36861	4.6151	6.319	.0000
rrors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh	5.0000						

	-5.0000						
lem	Tl1908	V	Zn	Si2881	Mo2020		
its	ppb	ppm	ppm	ppm	ppm		
e	-.20564	-.0002	.0029	3.450	.0006		
v	.99602	.0001	.0002	.055	.0006		
RSD	484.35	42.04	5.657	1.594	101.6		
	-1.3122	-.0001	.0031	3.483	.0013		
2	.07602	-.0003	.0029	3.480	.0004		
3	.61922	-.0003	.0028	3.386	.0001		
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	10.000	.0500	.0200				
	-10.000	-.0500	-.0200				
ntStd	1	2	3	4	5	6	7
de	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--
vge	29840	--	--	--	--	--	--
v	214.1863	--	--	--	--	--	--
D	.7177938	--	--	--	--	--	--
1	29608	--	--	--	--	--	--
2	29880	--	--	--	--	--	--
3	30031	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: LCSW Operator:
n Time: 02/15/97 13:30:29
mment:
de: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	967.11	47.97	474.98	2.514	2.512	2.488	44.44
SDev	.59	.07	4.28	.006	.001	.004	.10
%RSD	.06151	.1535	.90154	.2425	.0220	.1410	.2310
#1	967.80	48.03	477.42	2.518	2.511	2.491	44.52
#2	966.77	47.97	470.03	2.507	2.512	2.484	44.33
#3	966.77	47.89	477.47	2.516	2.512	2.489	44.48
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	60.00	600.00	3.000	3.000	3.000	60.00
Low	800.00	40.00	400.00	2.000	2.000	2.000	40.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.365	2.307	2.393	2.469	46.20	79.54	45.35
SDev	.007	.006	.003	.001	.13	.06	.09
%RSD	.3021	.2594	.1372	.0570	.2756	.0705	.2060
#1	2.373	2.311	2.396	2.468	46.34	79.50	45.43
#2	2.360	2.300	2.390	2.469	46.17	79.60	45.25
#3	2.362	2.309	2.394	2.471	46.09	79.50	45.37
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	3.000	3.000	3.000	3.000	60.00	96.00	60.00
Low	2.000	2.000	2.000	2.000	40.00	64.00	40.00

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	2.355	81.40	2.326	440.56	440.03	440.21	961.34
SDev	.004	.10	.005	2.70	.89	1.49	8.39
%RSD	.1555	.1289	.2342	.61282	.20319	.33809	.87250
#1	2.358	81.46	2.332	437.61	439.00	438.54	952.40
#2	2.351	81.28	2.322	442.90	440.65	441.40	962.59
#3	2.356	81.46	2.324	441.18	440.43	440.68	969.03
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	3.000	96.00	3.000			600.00	1200.0
Low	2.000	64.00	2.000			400.00	800.00

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	468.37	951.09	966.45	476.07	464.53	2863.	2.452
SDev	3.53	4.82	10.17	3.66	4.90	9.	.002
%RSD	.75312	.50655	1.0526	.76939	1.0548	.3155	.0663
#1	464.89	946.05	955.56	472.67	461.00	2864.	2.453
#2	468.29	951.56	968.09	479.95	462.47	2854.	2.450
#3	471.94	955.65	975.71	475.58	470.13	2872.	2.452
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	600.00						

M 0098

v	400.00						
Item	T11908	V	Zn	Si2881	Mo2020		
Units	ppb	ppm	ppm	ppm	ppm		
ge	464.85	2.392	2.454	63.81	2.423		
ev	1.66	.004	.004	.10	.003		
RSD	.35701	.1618	.1453	.1605	.1166		
	463.79	2.396	2.458	63.91	2.426		
	464.00	2.388	2.451	63.71	2.421		
3	466.76	2.393	2.455	63.82	2.423		
tors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	600.00	3.000	3.000				
	400.00	2.000	2.000				
IntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
em	Y	--	--	--	--	--	--
/len	371.030	--	--	--	--	--	--
Avge	28593	--	--	--	--	--	--
ev	57.44588	--	--	--	--	--	--
SD	.2009122	--	--	--	--	--	--
1	28649	--	--	--	--	--	--
	28534	--	--	--	--	--	--
	28595	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: LCSS Operator:
n Time: 02/15/97 13:37:46
mment:
de: CONC Corr. Factor: 1

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	353.17	35.03	293.00	.3862	1.275	.4095	11.63
Dev	.70	.07	1.92	.0022	.003	.0011	.03
RSD	.19701	.2122	.65541	.5670	.2544	.2769	.2468
1	353.97	35.07	295.18	.3884	1.278	.4105	11.66
2	352.73	35.07	292.26	.3840	1.275	.4097	11.64
3	352.81	34.94	291.56	.3862	1.271	.4083	11.60

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.3524	.4730	.3574	.2865	71.81	12.60	8.326
Dev	.0012	.0018	.0009	.0009	.20	.02	.031
RSD	.3493	.3825	.2509	.3218	.2827	.1243	.3749
1	.3536	.4748	.3581	.2875	71.88	12.61	8.355
2	.3526	.4729	.3576	.2861	71.96	12.58	8.330
3	.3511	.4712	.3564	.2858	71.58	12.61	8.293

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	1.146	2.593	.7572	498.00	494.90	495.93	128.28
Dev	.003	.023	.0034	1.76	.24	.74	1.15
RSD	.2443	.8683	.4497	.35243	.04812	.14903	.89414
1	1.149	2.619	.7587	500.01	495.17	496.78	127.80
2	1.146	2.576	.7597	497.21	494.73	495.55	129.59
3	1.143	2.585	.7533	496.77	494.79	495.45	127.45

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	399.83	128.39	128.22	394.03	402.72	516.0	2.007
Dev	1.70	1.76	1.16	3.08	1.08	1.0	.004
RSD	.42593	1.3724	.90734	.78046	.26851	.1877	.2160
1	401.12	126.64	128.38	396.82	403.27	517.0	2.011
2	400.46	130.16	129.30	394.54	403.42	515.1	2.007
3	397.90	128.37	126.99	390.73	401.48	516.0	2.003

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	244.34	.6944	.5406	46.92	.7159
Dev	2.09	.0027	.0015	.12	.0021
RSD	.85481	.3875	.2769	.2573	.2870
1	245.88	.6973	.5422	46.99	.7181
2	245.17	.6938	.5403	46.98	.7155
3	241.96	.6920	.5393	46.78	.7140

M 0490

thod: PROFCLP2 Sample Name: ~~XXX219~~ Operator:
Time: 02/15/97 13:45:03 BGC2K1 mtma 2/24/97
ent: 9702033 2/17/97 CGZ
de: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	6.3802	1.896	4.5615	-.0008	.0074	.0008	.3537
v	.3896	.006	1.8815	.0003	.0002	.0001	.0037
D	6.1060	.3247	41.247	40.99	2.716	16.71	1.042
1	6.8201	1.902	3.3235	-.0005	.0076	.0010	.3580
	6.0789	1.894	3.6344	-.0011	.0074	.0008	.3516
	6.2415	1.890	6.7267	-.0008	.0073	.0007	.3516

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0006	.0016	.0350	.0077	8.672	.2482	.2348
Dev	.0001	.0001	.0002	.0002	.022	.0097	.0029
D	21.55	6.143	.6629	2.975	.2574	3.912	1.230
1	.0007	.0015	.0353	.0079	8.693	.2593	.2382
	.0006	.0016	.0348	.0074	8.649	.2438	.2331
	.0005	.0016	.0350	.0076	8.674	.2414	.2333

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
e	.0169	.1602	.0190	8.7129	6.8112	7.4449	1.9093
Dev	.0002	.0046	.0004	1.3571	.3664	.6452	.8189
D	1.294	2.898	2.131	15.576	5.3788	8.6665	42.892
1	.0171	.1653	.0188	10.191	6.9847	8.0528	1.1490
2	.0168	.1593	.0186	7.5231	6.3904	6.7680	2.7764
	.0167	.1561	.0194	8.4247	7.0586	7.5139	1.8025

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
e	.15123	1.3814	2.1724	-4.3477	2.3969	8.248	.1148
Dev	1.5491	1.0335	.8967	1.6689	2.3465	1.311	.0007
RSD	1024.4	74.818	41.276	38.386	97.897	15.89	.5961
	1.8259	1.1039	1.1711	-3.4069	4.4380	8.503	.1140
2	-.14184	2.5254	2.9012	-6.2746	2.9195	9.412	.1149
	-1.2304	.51500	2.4449	-3.3615	-.16685	6.828	.1154

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
e	2.3619	.0099	.0181	17.14	.0096
v	.8455	.0003	.0001	.13	.0006
RSD	35.796	3.399	.4601	.7441	5.763
	3.3311	.0102	.0182	17.23	.0102
2	1.7754	.0101	.0181	16.99	.0097
3	1.9793	.0096	.0181	17.20	.0090

ethod: PROFCLP2 Sample Name: ~~XXX219D~~ B6C219D Operator:
un Time: 02/15/97 13:52:21
omment: 9702033 0 2/17/97 CGZ mpm 2/24/97
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	6.3920	2.059	3.0498	-.0012	.0065	.0004	.1362
SDev	.4617	.003	.9627	.0007	.0001	.0001	.0014
%RSD	7.2229	.1345	31.564	54.69	1.938	16.37	1.041
#1	6.9010	2.058	4.0449	-.0005	.0066	.0004	.1375
#2	6.2745	2.062	2.9812	-.0015	.0064	.0004	.1364
#3	6.0003	2.057	2.1233	-.0018	.0064	.0003	.1347

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0007	.0177	.0049	6.553	.2255	.1495
SDev	.0000	.0004	.0002	.0002	.013	.0085	.0025
%RSD	31.09	52.20	.9549	4.551	.2017	3.773	1.661
#1	.0001	.0012	.0179	.0051	6.562	.2352	.1522
#2	.0001	.0004	.0177	.0046	6.560	.2222	.1490
#3	.0001	.0006	.0176	.0050	6.538	.2192	.1473

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0094	.1353	.0046	6.5392	5.2539	5.6823	.88556
SDev	.0002	.0013	.0008	1.4827	1.0288	.2641	.64090
%RSD	2.246	.9220	17.86	22.674	19.582	4.6472	72.372
#1	.0096	.1353	.0053	7.0120	5.2920	5.8652	.44410
#2	.0093	.1365	.0047	7.7278	4.2066	5.3796	.59191
#3	.0092	.1340	.0037	4.8777	6.2631	5.8022	1.6207

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	.64727	2.0730	.29228	-5.2114	3.5718	6.560	.1530
SDev	1.8719	1.1285	.69964	.5075	2.9161	.523	.0004
%RSD	289.19	54.440	239.37	9.7384	81.642	7.979	.2721
#1	-1.4908	.78044	.27572	-4.9028	.21217	7.111	.1525
#2	1.4421	2.5756	-.39893	-5.7972	5.0558	6.499	.1534
#3	1.9906	2.8628	1.0001	-4.9343	5.4474	6.070	.1530

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	-.73386	.0094	.0171	19.52	.0024
SDev	.72958	.0001	.0001	.04	.0001
%RSD	99.417	.8893	.7628	.2246	4.848
#1	-.01146	.0094	.0172	19.56	.0024
#2	-.71970	.0093	.0171	19.47	.0025
#3	-1.4704	.0095	.0169	19.52	.0023

thod: PROFCLP2 Sample Name: ~~XXX219S~~ Operator:
Time: 02/15/97 13:59:38
ent: 9702033S 2117/97 C.02 B1C219S mm 2/24/97
de: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	55.820	4.458	1884.8	.0016	2.063	.0493	.1393
ev	.167	.011	16.0	.0005	.001	.0001	.0004
SD	.29887	.2517	.84707	29.23	.0480	.2948	.3102
#1	56.001	4.450	1868.2	.0021	2.063	.0492	.1389
#	55.786	4.454	1886.1	.0015	2.063	.0492	.1397
#	55.673	4.471	1900.0	.0012	2.064	.0494	.1395

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0500	.4965	.2210	.2650	7.695	.2287	.1546
Dev	.0003	.0019	.0006	.0003	.021	.0012	.0028
SD	.5433	.3910	.2946	.1143	.2759	.5329	1.825
#1	.0498	.4948	.2203	.2654	7.678	.2294	.1514
#	.0499	.4961	.2212	.2649	7.688	.2273	.1567
#	.0503	.4986	.2216	.2648	7.718	.2295	.1555

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
ge	.5159	.1448	.5127	494.35	484.03	487.47	450.69
Dev	.0016	.0009	.0038	2.83	1.68	2.06	1.99
SD	.3016	.6359	.7386	.57200	.34644	.42209	.44083
#1	.5145	.1446	.5099	491.22	482.12	485.15	449.81
#2	.5156	.1440	.5112	495.11	484.66	488.14	449.30
#	.5176	.1458	.5170	496.72	485.29	489.10	452.97

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
ge	1794.0	442.72	454.67	1802.2	1789.9	7.375	.0832
Dev	5.8	2.70	2.89	3.8	7.8	.651	.0008
RSD	.32499	.60913	.63545	.20889	.43580	8.828	.9145
#	1789.9	439.62	454.90	1797.8	1786.0	7.709	.0835
#2	1791.4	444.54	451.68	1804.5	1784.8	7.791	.0837
#	1800.7	444.01	457.44	1804.3	1798.9	6.625	.0823

lem	Tl1908	V	Zn	Si2881	Mo2020
its	ppb	ppm	ppm	ppm	ppm
ge	1893.4	.5093	.5173	28.70	.0027
ev	8.1	.0009	.0016	.23	.0003
RSD	.42946	.1847	.3123	.8130	12.23
#	1885.1	.5084	.5159	28.53	.0030
#2	1893.7	.5093	.5170	28.62	.0023
#3	1901.3	.5103	.5191	28.97	.0028

M 0193

thod: PROFCLP2 Sample Name: ~~XXX219L~~ Operator:
n Time: 02/15/97 14:06:56
mment: 9702033L 2/17/97 CGZ
de: CONC Corr. Factor: 1

BLC 2191L mtm 2/24/97

lem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	.91125	.3826	1.9560	-.0000	.0022	.0001	.0428
Dev	.41858	.0063	.9359	.0003	.0002	.0000	.0009
RSD	45.935	1.654	47.851	3187.	8.035	22.47	2.031
1	.94497	.3899	2.4365	.0001	.0024	.0001	.0429
2	.47683	.3793	.87737	-.0004	.0022	.0001	.0418
3	1.3119	.3786	2.5541	.0002	.0020	.0001	.0436

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0001	.0002	.0070	.0011	1.724	.0498	.0330
Dev	.0001	.0003	.0001	.0003	.015	.0111	.0016
RSD	111.8	156.1	1.779	23.03	.8508	22.20	4.731
1	.0000	.0006	.0070	.0011	1.741	.0551	.0337
2	.0000	-.0001	.0068	.0008	1.714	.0371	.0312
3	.0002	.0001	.0071	.0013	1.717	.0571	.0342

lem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0034	.0245	.0040	-.17812	2.3469	1.5065	.63722
Dev	.0001	.0012	.0001	1.24850	1.2855	.6903	.72250
RSD	3.555	4.813	3.655	700.92	54.775	45.823	113.38
1	.0035	.0258	.0041	-.33939	3.8089	2.2614	.96849
2	.0033	.0235	.0038	1.2619	1.3939	1.3503	-.19152
3	.0034	.0241	.0041	-.95691	1.8379	.90757	1.1347

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	1.0421	2.6138	-.35006	-.37292	1.7481	1.174	.0231
Dev	.4032	1.4414	.48141	1.66503	.2508	.986	.0004
RSD	38.694	55.146	137.52	446.49	14.347	83.91	1.546
1	1.1703	3.7696	-.43044	-.12815	1.8182	2.260	.0234
2	1.3656	.99874	-.78622	1.1562	1.4697	.3348	.0227
3	.59032	3.0731	.16647	-2.1468	1.9564	.9291	.0232

lem	T11908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	4.7410	.0021	.0040	3.565	.0018
Dev	2.2176	.0004	.0001	.032	.0004
RSD	46.774	18.74	2.716	.8923	21.07
1	7.3007	.0024	.0041	3.601	.0019
2	3.5196	.0021	.0041	3.553	.0021
3	3.4026	.0017	.0039	3.541	.0014

M 0204

ysis Report Sat 02-15-97 02:21:22 PM page 1

thod: PROFCLP2 Sample Name: ~~XX2234~~ 13233+X 2/24/97 Operator:
Time: 02/15/97 14:14:13
ent: 9702041 2/17/97 CGZ
de: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	-.05065	-.0127	1.2223	.2300	.0287	.0002	17.36
v	.14245	.0019	1.2043	.0005	.0002	.0000	.07
D	281.25	14.53	98.533	.2300	.5386	13.31	.4098
	-.02229	-.0146	2.1668	.2294	.0289	.0002	17.27
	.07549	-.0109	1.6339	.2303	.0287	.0002	17.38
	-.20514	-.0127	-.13392	.2303	.0285	.0002	17.41

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	-.0000	.0059	.0001	.0015	4.549	69.20	17.01
v	.0001	.0002	.0004	.0002	.010	.18	.04
D	454.9	2.710	346.5	13.93	.2117	.2541	.2423
	.0001	.0061	.0000	.0013	4.538	69.37	16.97
	-.0000	.0060	.0006	.0018	4.554	69.21	17.03
	-.0001	.0058	-.0002	.0015	4.555	69.02	17.04

em	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
ge	.4072	37.14	.0266	-.59055	-.50058	-.53013	.90029
Dev	.0009	.05	.0005	.62996	.52998	.28615	.94236
D	.2120	.1246	1.833	106.67	105.87	53.978	104.67
	.4062	37.14	.0271	.12243	-.95100	-.59316	.51096
	.4076	37.19	.0262	-.82212	.08340	-.21772	1.9749
	.4078	37.10	.0265	-1.0720	-.63414	-.77951	.21498

lem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
e	1.1985	-.03753	1.3680	5.2362	-.81771	-.6413	-.0004
Dev	1.1658	2.12495	.7003	.1914	1.67792	1.9643	.0001
RSD	97.266	5662.2	51.188	3.6555	205.20	306.3	30.62
	2.3557	-1.9059	1.7172	5.3021	.88436	-1.370	-.0004
	1.2155	2.2741	1.8251	5.3860	-.86712	1.583	-.0003
	.02438	-.48072	.56184	5.0206	-2.4704	-2.137	-.0005

lem	Tl1908	V	Zn	Si2881	Mo2020
ts	ppb	ppm	ppm	ppm	ppm
e	3.2917	-.0004	.5570	61.13	.0023
Dev	.7254	.0005	.0017	.06	.0001
RSD	22.038	107.9	.3099	.1030	4.902
	3.8131	-.0005	.5551	61.06	.0022
	3.5987	.0001	.5575	61.17	.0024
	2.4632	-.0008	.5584	61.16	.0023

M 0205

thod: PROFCLP2 Sample Name: ~~XXX224~~ B6C224 mm 2/24/97 Operator:
n Time: 02/15/97 14:21:30
mment: 9702042 2/17/97 CGZ
de: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	290.89	68.18	222.32	.1985	.3561	.0048	41.75
SDev	.33	.07	1.25	.0003	.0006	.0000	.04
%RSD	.11463	.1043	.56431	.1377	.1797	.4595	.0990
#1	290.51	68.12	223.67	.1987	.3554	.0048	41.79
#2	291.11	68.16	222.11	.1982	.3562	.0048	41.72
#3	291.06	68.26	221.18	.1986	.3567	.0048	41.73

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0067	.0337	.6096	.3227	357.2	24.04	21.50
SDev	.0001	.0002	.0004	.0005	.2	.04	.02
%RSD	1.418	.4928	.0622	.1688	.0509	.1751	.0887
#1	-.0067	.0335	.6092	.3221	357.3	24.02	21.52
#2	-.0066	.0337	.6095	.3229	357.0	24.01	21.50
#3	-.0068	.0339	.6100	.3231	357.2	24.09	21.49

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2069
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	1.498	33.60	.1609	74.545	85.154	81.622	3.6425
SDev	.000	.04	.0011	.864	2.373	1.699	2.4850
%RSD	.0292	.1270	.6582	1.1586	2.7863	2.0818	68.223
#1	1.497	33.55	.1613	73.596	85.084	81.259	1.5709
#2	1.497	33.62	.1596	75.284	87.561	83.473	2.9588
#3	1.498	33.63	.1614	74.756	82.817	80.133	6.3978

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	27.276	7.5112	1.7106	7.7385	37.030	-60.19	2.020
SDev	.898	2.2576	3.0536	4.1858	3.399	1.26	.002
%RSD	3.2936	30.057	178.51	54.090	9.1783	2.089	.1063
#1	27.293	4.9064	-.09483	6.2141	37.816	-60.66	2.018
#2	26.369	8.9035	-.00955	12.473	33.307	-61.15	2.021
#3	28.166	8.7236	5.2363	4.5286	39.967	-58.77	2.022

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	11.956	.3054	4.373	1285.	.1296
SDev	.569	.0004	.003	1.	.0005
%RSD	4.7632	.1344	.0745	.0578	.4026
#1	12.407	.3051	4.376	1285.	.1294
#2	11.816	.3052	4.370	1284.	.1292
#3	12.144	.3059	4.374	1285.	.1302

M 0196

thod: PROFCLP2 Sample Name: CCV2 Operator:
Time: 02/15/97 14:30:16
ment:
de: CONC Corr. Factor: 1

em	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	1016.1	50.54	496.73	2.597	2.637	2.527	45.86
ev	.7	.09	7.42	.013	.017	.031	.74
SD	.06752	.1796	1.4940	.5128	.6381	1.230	1.617
	1016.7	50.46	505.25	2.612	2.618	2.563	46.72
	1015.4	50.64	491.70	2.586	2.644	2.508	45.42
	1016.1	50.52	493.23	2.593	2.649	2.511	45.45
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
gh	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
ow	900.00	45.00	450.00	2.250	2.250	2.250	45.00

em	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	2.450	2.386	2.480	2.584	48.37	86.77	47.08
ev	.047	.030	.030	.015	.70	.87	.49
SD	1.922	1.257	1.202	.5972	1.446	.9991	1.035
	2.504	2.421	2.514	2.567	49.13	85.77	47.64
	2.426	2.369	2.461	2.592	48.04	87.28	46.78
	2.420	2.368	2.463	2.594	47.90	87.26	46.81
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
gh	2.750	2.750	2.750	2.750	55.00	88.00	55.00
ow	2.250	2.250	2.250	2.250	45.00	72.00	45.00

em	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	2.440	85.35	2.416	445.89	456.44	452.92	1002.0
ev	.023	.06	.037	11.63	11.51	3.81	8.0
SD	.9607	.0724	1.521	2.6083	2.5214	.84066	.79537
	2.467	85.29	2.459	432.90	469.39	457.24	992.97
	2.425	85.37	2.398	449.43	452.53	451.49	1008.0
	2.428	85.40	2.392	455.34	447.39	450.04	1005.1
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
gh	2.750	88.00	2.750			550.00	1100.0
ow	2.250	72.00	2.250			450.00	900.00

em	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	492.60	1003.3	1001.4	491.00	493.40	2960.	2.560
ev	2.90	16.6	19.7	13.83	10.53	46.	.008
SD	.58881	1.6529	1.9708	2.8158	2.1341	1.539	.2963
	494.73	1021.3	978.59	475.20	504.48	3013.	2.569
	493.78	998.40	1012.8	496.94	492.21	2929.	2.554
	489.30	989.72	1012.7	500.87	483.53	2940.	2.558
ors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
gh	550.00						

97

ow	450.00						
lem	Tl1908	V	Zn	Si2881	Mo2020		
nits	ppb	ppm	ppm	ppm	ppm		
vge	487.70	2.489	2.558	51.36	2.512		
Dev	6.84	.017	.030	.41	.025		
RSD	1.4027	.6896	1.157	.8066	.9975		
1	495.56	2.508	2.592	51.84	2.541		
2	483.13	2.479	2.540	51.13	2.497		
3	484.41	2.479	2.542	51.12	2.499		
rrors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK		
igh	550.00	2.750	2.750				
ow	450.00	2.250	2.250				
ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	28088	--	--	--	--	--	--
Dev	471.1639	--	--	--	--	--	--
RSD	1.677472	--	--	--	--	--	--
1	28630	--	--	--	--	--	--
2	27859	--	--	--	--	--	--
3	27775	--	--	--	--	--	--

ysis Report Sat 02-15-97 02:44:42 PM page 1

thod: PROFCLP2 Sample Name: CCVL2 Operator:
Time: 02/15/97 14:37:33
ent:
de: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	.27981	.0131	.06763	.0004	.0012	.0011	-.0069
v	.14406	.0054	1.0462	.0001	.0001	.0001	.0036
D	51.487	41.30	1547.0	19.01	11.39	10.52	52.34
	.31107	.0177	.37863	.0003	.0014	.0012	-.0031
	.12268	.0144	-1.0988	.0004	.0012	.0011	-.0073
	.40568	.0071	.92305	.0005	.0011	.0010	-.0103
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h							
ow							

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0010	.0010	.0012	.0008	2.592	.0615	.0086
v	.0002	.0001	.0003	.0002	.018	.0046	.0024
D	20.24	14.76	28.24	22.72	.7097	7.423	27.94
	.0013	.0009	.0011	.0010	2.613	.0659	.0113
	.0010	.0009	.0009	.0009	2.584	.0558	.0077
	.0009	.0011	.0016	.0006	2.580	.0618	.0068
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
h					2.750		
ow					2.250		

m	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0011	2.587	.0010	.52661	-.25363	.00654	.63913
v	.0001	.018	.0004	1.9485	.97510	.26567	1.2337
D	13.06	.6899	39.21	370.02	384.45	4063.3	193.02
	.0013	2.606	.0011	-.30444	-.29140	-.29539	-.71426
	.0011	2.584	.0014	-.86862	.73980	.20454	1.7008
	.0010	2.570	.0006	2.7529	-1.2093	.11046	.93087
ors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h		2.750					
ow		2.250					

m	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	.65329	.58137	.66751	2.7991	-.41344	.3136	.0014
v	1.9035	.60298	2.1395	1.0510	2.42286	.6855	.0002
D	291.37	103.72	320.52	37.549	579.02	218.6	15.56
	2.2016	1.1514	-1.6462	3.0747	1.7653	-.4274	.0016
	-1.4719	-.04986	2.5744	1.6377	-3.0248	.4428	.0015
	1.2302	.64255	1.0743	3.6849	.00422	.9253	.0011
ors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h							

M 0629

ow

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
/ge	1.9255	.0011	.0024	.0654	.0030
Dev	1.0919	.0006	.0003	.0275	.0014
RSD	56.707	49.59	14.39	42.02	44.74
1	3.1452	.0017	.0028	.0861	.0045
2	1.0391	.0011	.0024	.0342	.0028
3	1.5923	.0006	.0021	.0760	.0018
rrors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh					
ow					

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
/ge	28490	--	--	--	--	--	--
Dev	204.8914	--	--	--	--	--	--
RSD	.7191778	--	--	--	--	--	--
1	28256	--	--	--	--	--	--
2	28574	--	--	--	--	--	--
3	28639	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CCB2 Operator:
Time: 02/15/97 14:44:51
ent:
de: CONC Corr. Factor: 1

m	Ag	Al	As1890	B	Ba	Be	Ca
ts	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	.06173	-.0123	-.71526	.0009	.0004	.0004	-.0261
v	.28119	.0035	1.79090	.0003	.0001	.0001	.0019
D	455.51	28.56	250.39	31.25	19.84	25.81	7.136
	.34294	-.0086	-1.1042	.0012	.0005	.0005	-.0242
	.06171	-.0126	-2.2797	.0008	.0003	.0004	-.0261
	-.21945	-.0156	1.2382	.0006	.0004	.0003	-.0279
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	10.000	.2000	10.000	.0200	.2000	.0050	.2000
w	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

m	Cd	Co	Cr	Cu	Fe	K	Mg
ts	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0004	.0001	.0001	-.0001	.0132	.0123	-.0083
v	.0000	.0001	.0002	.0003	.0064	.0083	.0010
D	12.48	57.35	176.3	213.9	48.78	66.93	11.98
	.0004	.0000	-.0001	.0002	.0196	.0045	-.0094
	.0004	.0001	.0001	-.0003	.0132	.0210	-.0075
	.0003	.0001	.0003	-.0003	.0068	.0116	-.0080
ors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
h	.0050	.0500	.0100	.0250	.1000	5.000	.2000
w	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

m	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
ts	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0004	.0024	.0002	-1.2666	.24953	-.25498	1.5945
v	.0001	.0039	.0004	1.7333	1.0738	1.21879	1.0121
D	18.08	161.7	218.5	136.85	430.34	478.00	63.474
	.0004	.0057	.0006	-3.2319	-.54334	-1.4383	1.2499
	.0005	.0033	.0003	-.61173	-.17962	-.32313	2.7340
	.0003	-.0018	-.0003	.04383	1.4715	.99646	.79977
ors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
h	.0150	5.000	.0400			3.0000	60.000
w	-.0150	-5.000	-.0400			-3.0000	-60.000

m	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ts	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	-1.2031	1.1057	1.8381	-.25395	-1.6774	-.4738	.0005
v	1.1515	.8778	1.8937	.76506	1.3460	.1184	.0001
D	95.713	79.391	103.02	301.26	80.244	25.00	18.13
	-2.5313	.79762	1.4752	-1.1302	-3.2312	-.6060	.0006
	-.48357	.42340	3.8870	.28152	-.86596	-.3773	.0004
	-.59453	2.0959	.15218	.08681	-.93511	-.4381	.0004
ors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h	5.0000						

-5.0000

	Tl1908	V	Zn	Si2881	Mo2020
..s	ppb	ppm	ppm	ppm	ppm
..e	1.7299	.0004	.0005	-.0202	.0005
..ev	.4765	.0003	.0001	.0162	.0002
RSD	27.542	85.47	12.48	80.18	35.90
#1	1.5768	.0007	.0006	-.0364	.0003
#2	2.2640	.0004	.0005	-.0204	.0006
#3	1.3487	.0001	.0005	-.0039	.0007
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	10.000	.0500	.0200		
Low	-10.000	-.0500	-.0200		

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28791	--	--	--	--	--	--
SDev	16.33424	--	--	--	--	--	--
%RSD	.0567341	--	--	--	--	--	--
#1	28810	--	--	--	--	--	--
#2	28780	--	--	--	--	--	--
#3	28783	--	--	--	--	--	--

RSD							
#1							43.96
#3	-.04888	.0223	2.7081	.1247	.0413	.0002	43.96

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge			.0001	.0011	10.75	15.13	19.00
			.0002	.0001	.09	.04	.04
						.2393	.2366
						15.11	19.05

M 0112

paper jam reprinted remaining run mtm 2/24/97

ethod: PROFCLP2 Sample Name: ~~XX224A~~ B224BX mtm 2/24/97 Operator:
un Time: 02/15/97 14:52 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: 9702043 Cust. Smpl. ID.: Cust. ID.:
2/17/97 cgz

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	.07175	.0006	1.2036	.1247	.0414	.0002
Dev	.13983	.019	1.6179	.0001	.0002	.0001
RSD	194.88	3354	134.41	.0886	.3977	26.34

lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	43.94	.0006	.0077	.0001	.0011	10.75
Dev	.1031	.0008	0	.0002	.0001	.0779
RSD	.2347	126.7	.6485	205.8	11.92	.7252

lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	15.13	19.00	.4017	32.30	.0306	-8.2303
Dev	.0362	.0449	.001	.0668	.0001	14.78
RSD	.2393	.2366	.2579	.207	.3719	179.58

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	4.1757	.04490	1.0378	.07346	8.1223	-2.4996
Dev	6.4899	.59312	1.8099	1.1175	13.478	8.9423
RSD	155.42	1320.8	174.39	1521.2	165.94	357.75

lems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	-5.8544	3.0325	-2.577	-.0003	3.9836	.0017
Dev	20.116	9.2261	.485	.0011	4.8717	.0023
RSD	343.6	304.24	18.82	317	122.29	129.3

lems	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	1.255	69.03	.0058
Dev	.0028	.1811	.0002
RSD	.2202	.2623	3.019

ethod: PROFCLP2 Sample Name: ~~XXX225~~ BC0225 Operator:
un Time: 02/15/97 14:59 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: 9702044 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CG2

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	91.703	94.87	136.19	.7566	.2434	.0064
Dev	.30783	.0945	.5059	.0015	.0002	0
RSD	.33568	.0996	.37146	.2012	.0771	.5372

lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	20.78	-.0007	.0321	.5752	.5250	235.4
Dev	.0455	.0001	.0001	.0007	.0012	.151
RSD	.219	9.619	.2661	.1256	.2352	.0641

lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	37.74	104.5	1.042	67.27	.2515	73.667
Dev	.0911	.1154	.0006	.0352	.0005	.35697
RSD	.2414	.1104	.0604	.0524	.1852	.48457

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	84.191	80.687	7.4763	9.8458	10.644	5.8942
Dev	.98479	.68281	2.4694	1.8337	2.2535	3.0417
RSD	1.1697	.84625	33.029	18.624	21.171	51.604

lems	1960/1	1960/2	Sn	Ti	T11908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	3.0521	13.237	-43.74	1.640	6.7709	.2486
Dev	2.9274	1.4479	.2196	.0008	.38988	.0004
RSD	95.915	10.938	.502	.0465	5.7582	.1784

lems	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	4.039	1421.	.1145
Dev	.003	.8683	.0008
RSD	.0731	.0611	.7033

od: PROFCLP2 Sample Name: ~~XXX225D~~ B602355D Operator:
Time: 02/15/97 15:06 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
h ID.: 97020440 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CLP

ems	Ag	Al	As1890	B	Ba	Be
s	ppb	ppm	ppb	ppm	ppm	ppm
	92.653	85.74	135.37	.7549	.2240	.0062
ev	.15972	.1128	.79161	.0027	.0001	0
SD	.17239	.1316	.5848	.3522	.066	.4137

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
	20.79	-.0009	.0319	.5634	.5198	235.4
	.0974	.0002	.0003	.0016	.0011	1.066
SD	.4687	23.21	.9979	.2884	.2141	.4527

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	36.92	104.7	1.037	66.95	.2460	72.080
	.0288	.3907	.003	.1395	.0006	1.22
	.0781	.3731	.2902	.2084	.2295	1.6925

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	81.400	78.297	5.4011	9.8073	8.3584	3.9243
ev	2.1192	1.3816	.75266	1.1613	1.1074	.79955
	2.6034	1.7646	13.935	11.841	13.249	20.375

ems	1960/1	1960/2	Sn	Ti	Tl1908	V
s	ppb	ppb	ppm	ppm	ppb	ppm
	2.2676	13.571	-44.21	1.438	6.8915	.2453
	1.9706	.97328	1.368	.0016	.74001	.0008
SD	86.902	7.1718	3.094	.1118	10.738	.3073

s	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
	4.046	1318.	.1091
	.0144	4.281	.0011
SD	.356	.3247	.9853

M 0115

BLCK255 2/24/97

ethod: PROFCLP2 Sample Name: ~~XXX225S~~ Operator:
un Time: 02/15/97 15:14 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: 97020445 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CG2

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	139.10	98.28	1969.8	.7379	2.241	.0552
Dev	.08484	.1052	4.1315	.0016	.0039	.0001
RSD	.061	.1071	.20973	.2227	.1757	.1116

lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	20.13	.0453	.4773	.7240	.7631	223.9
Dev	.0388	.0001	.0002	.0014	.0016	.5725
RSD	.1927	.3309	.0358	.1978	.2033	.2556

lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	37.17	101.8	1.475	65.50	.6965	504.58
Dev	.0483	.0992	.001	.1414	.0015	3.6661
RSD	.1299	.0974	.0691	.2158	.2221	.72655

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	511.85	509.43	318.51	1897.1	316.46	319.54
Dev	1.7341	2.2626	2.5038	5.7817	3.3603	2.1348
RSD	.33879	.44413	.78606	.30475	1.0618	.66808

lems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	1909.7	1890.9	-41.38	1.422	1793.7	.7041
Dev	14.957	2.684	1.922	0	.14453	.0002
RSD	.7832	.14194	4.645	.0019	.00805	.0333

lems	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	4.399	1439.	.1183
Dev	.0038	.6451	.0009
RSD	.0853	.0448	.7964

thod: PROFCLP2 Sample Name: ~~XXX225L~~ 960225L run 2/24/97
Time: 02/15/97 15:21 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
ab ID.: 97020441 Cust. Smpl. ID.: Cust. ID.: Operator:
2/17/97 CGZ

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
ge	18.384	19.22	28.206	.1543	.0505	.0014
Dev	.14706	.0269	1.9638	.0014	.0002	0
RSD	.79997	.1398	6.9623	.8953	.4883	1.694

ms	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
ge	4.226	.0004	.0069	.1216	.1029	44.41
v	.0064	.0001	.0002	.0004	.0003	.0228
D	.1514	37.62	2.835	.2891	.2961	.0514

ms	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	7.108	21.53	.2227	13.36	.0544	16.413
v	.011	.0126	.0001	.0566	.0005	.60836
D	.1542	.0587	.0536	.4236	.9159	3.7067

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
ge	18.781	17.993	2.6833	2.0724	1.6429	3.2022
Dev	1.5324	.84851	1.3027	1.5475	.48094	1.8142
D	8.1594	4.7159	48.551	74.671	29.274	56.653

lems	1960/1	1960/2	Sn	Tl	T11908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
ge	2.7282	1.7447	-8.253	.3394	6.1479	.0515
v	2.7508	1.1845	1.324	.0006	1.7662	.0001
RSD	100.83	67.895	16.04	.173	28.729	.1291

ms	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	.8601	295.0	.0240
v	.0008	.2426	.0005
D	.0897	.0822	2.09

M 0117

thod: PROFCLP2 Sample Name: ~~XX225A~~ B225AX 2/24/97 Operator:
n Time: 02/15/97 15:28 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
b ID.: 9702045 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CGZ

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
ge	.07417	8.683	5.1909	.9141	.0737	.0024
ev	.77527	.0148	.43244	.0039	.0002	0
SD	1045.2	.1704	8.3308	.4294	.2595	1.082

ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	21.69	.0012	.0236	.0238	.0379	48.56
ev	.0621	0	.0002	.0003	.0001	.1206
SD	.2862	2.179	.7615	1.373	.3801	.2484

ems	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	37.43	124.7	.8326	72.86	.1892	.11679
ev	.041	.2533	.0019	.1858	.0008	1.7065
SD	.1096	.2031	.2309	.2551	.4356	1461.1

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	2.2183	1.5188	.76593	1.0795	.73176	.78254
ev	1.367	.5509	.89422	1.4057	.54576	1.0895
SD	61.624	36.272	116.75	130.22	74.582	139.23

ems	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	3.7911	-.27475	-13.89	.0000	3.6599	-.0005
ev	4.8376	2.6717	.8452	.0002	1.0222	.0002
SD	127.6	972.42	6.087	566.9	27.93	48.44

ems	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	5.137	216.2	.0051
ev	.0111	.3989	.0002
SD	.2153	.1845	4.088

thod: PROFCLP2 Sample Name: ~~XX225AD~~ 32254 num 2/21/97 Operator:
Time: 02/15/97 15:35 Filename: DEC0122
e: CONC Type: S Corr. Factor: 1.00000
ab ID.: 9702045O Cust. Smpl. ID.: Cust. ID.:
2/17/97 CGZ

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
e	.07212	8.610	4.1958	.9022	.0728	.0024
v	.23469	.0193	1.4668	.0011	.0001	0
SD	325.38	.2241	34.959	.12	.134	1.453

ms	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
e	21.73	.0012	.0238	.0242	.0375	48.58
v	.013	.0002	.0002	.0005	.0001	.0677
SD	.0597	13.77	.6746	1.863	.4151	.1395

ms	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	37.02	124.7	.8315	72.47	.1900	-.67934
v	.0385	.0683	.0006	.1363	.0005	.94528
D	.1041	.0548	.0688	.188	.2663	139.15

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
e	1.5061	.77866	.91524	1.8221	-.93931	1.8407
ev	1.1655	.48811	1.6932	.59635	1.9937	1.5573
SD	77.385	62.685	184.99	32.73	212.24	84.605

ms	1960/1	1960/2	Sn	Ti	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
e	5.3664	.05214	-13.17	-.0004	2.0611	-.0006
v	3.4132	.81527	1.208	0	.98432	.0003
SD	63.604	1563.6	9.169	.038	47.757	44.63

ms	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	5.135	215.0	.0044
v	.0021	.1992	.0005
D	.0417	.0926	11.37

thod: PROFCLP2 Sample Name: ~~XX225AS~~ B225AS 2/14/97 Operator:
n Time: 02/15/97 15:43 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
b ID.: 97020455 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CGZ

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
ge	49.650	10.59	2022.1	.8955	2.177	.0541
ev	.12374	.0254	5.9788	.0029	.0026	.0001
SD	.24924	.24	.29566	.3272	.1193	.229

ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	21.42	.0500	.4943	.2211	.2962	49.01
ev	.0567	.0003	.0008	.0002	.0002	.1354
SD	.2646	.5063	.1635	.1053	.0695	.2764

ems	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	36.96	123.2	1.312	71.83	.6685	464.52
ev	.0208	.3261	.0022	.1679	.0018	1.2378
SD	.0562	.2647	.1678	.2338	.2665	.26645

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	467.01	466.18	512.07	2048.2	508.95	513.62
ev	2.0483	1.4761	2.0877	14.477	3.7387	1.3921
SD	.4386	.31664	.40769	.70681	.73458	.27103

ems	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	2064.8	2040.0	-14.88	-.0003	1921.4	.4969
ev	5.9052	18.921	.6143	0	4.6889	.0011
SD	.286	.9275	4.129	14.53	.24403	.2189

ems	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	5.551	212.4	.0037
ev	.0124	.5035	.0001
SD	.2236	.2371	2.609

H CLP

hod: PROFCLP2 Sample Name: ~~XX225AL~~ 5225AXL Operator:
Time: 02/15/97 15:50 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
ab ID.: 9702045L Cust. Smpl. ID.: Cust. ID.:
2117197 CGZ

lems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
e	-.06496	1.767	1.9805	.1847	.0159	.0006
Dev	.09326	.0315	.9193	.0031	.0003	0
RSD	143.56	1.785	46.418	1.674	2.082	6.994

ms	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
e	4.400	.0003	.0052	.0052	.0090	10.18
v	.0559	.0001	.0003	.0001	.0003	.1448
SD	1.269	20.04	5.254	1.573	3.747	1.422

ms	K	Mg	Mn	Na	Ni	2203/1
ts	ppm	ppm	ppm	ppm	ppm	ppb
ge	7.136	25.34	.1765	14.62	.0414	-.29803
v	.0852	.3329	.0022	.2163	.0006	3.0193
D	1.193	1.314	1.274	1.48	1.434	1013.1

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
e	-.04516	-.12895	2.3083	1.5144	.64425	3.1386
Dev	1.7952	.29233	.97877	.83196	2.9457	.2089
D	3974.5	226.7	42.403	54.936	457.23	6.6561

ems	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
e	3.3485	.59830	-2.463	-.0001	4.4922	.0003
v	2.508	2.1981	1.336	0	1.7895	.0003
RSD	74.898	367.39	54.25	28.8	39.836	98.68

ms	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
ge	1.102	44.27	.0011
v	.0137	.6112	.0002
D	1.246	1.381	15.18

H 0121

BC0223,mm 2/24/97

ethod: PROFCLP2 Sample Name: ~~XXX223~~ Operator:
un Time: 02/15/97 15:57 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: 9702040 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CG2

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	k2962.9	211.2	k1055.2	k.3183	.8524	.0188
Dev	3.5063	.2804	1.5724	.0016	.0011	0
RSD	.11834	.1328	.14902	.515	.1314	.2544

lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	k24.57	k.2777	.0730	k3.209	k1.037	S21.84
Dev	.0714	.0007	.0006	.0043	.0043	.0624
RSD	.2904	.26	.8242	.1353	.4149	.2859

lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	78.89	k30.67	k4.539	36.83	.4466	k430.83
Dev	.262	.0557	.0056	.0637	.0017	1.8659
RSD	.3321	.1818	.1223	.173	.3803	.4331

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	k381.58	k397.98	k67.040	k-460.19	k77.557	k61.789
Dev	.97456	.68347	.90656	.74089	1.6414	1.2828
RSD	.2554	.17173	1.3523	.16099	2.1164	2.0761

lems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	k43.880	k-711.84	k-349.4	10.48	k-74.338	k1.292
Dev	4.0908	.94423	2.996	.0084	1.3125	.0015
RSD	9.3227	.13264	.8572	.0801	1.7656	.1193

lems	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	k9.775	1840.	.3485
Dev	.0176	1.022	.0008
RSD	.1799	.0556	.2311

H 0122

thod: PROFCLP2 Sample Name: CCV3 Operator:
Time: 02/15/97 16:06 Filename: DEC0122
: CONC Type: S Corr. Factor: 1.00000
ab ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
	1024.0	50.72	504.22	2.618	2.639	2.560
	1.1449	.0804	.50925	.0042	.0045	.0041
SD	.11181	.1586	.101	.1604	.171	.1612

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	46.45	2.487	2.415	2.509	2.591	49.36
	.1118	.0036	.0046	.0031	.0043	.0752
	.2408	.1443	.1884	.1254	.1679	.1523

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	86.44	47.64	2.468	85.46	2.444	462.83
	.0708	.0441	.0028	.054	.0044	2.8026
	.0819	.0925	.1116	.0631	.1781	.60555

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	460.21	461.08	1021.5	500.34	1006.0	1029.2
ev	.85556	.74045	3.9626	2.2845	2.4429	6.3414
	.1859	.16059	.38793	.45657	.24282	.61616

s	1960/1	1960/2	Sn	Ti	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
	515.04	493.00	2993.	2.598	488.82	2.506
	3.7004	4.8831	16.65	.0014	2.7101	.0019
SD	.71847	.99048	.5564	.0561	.55442	.0742

s	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	2.592	52.06	2.540
	.0023	.0859	.0045
	.0892	.1649	.1785

H 0123

ethod: PROFCLP2 Sample Name: CCVL3 Operator:
ın Time: 02/15/97 16:14 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: Cust. Smpl. ID.: Cust. ID.:

lems	Ag	Al	As1890	B	Ba	Be
ıits	ppb	ppm	ppb	ppm	ppm	ppm
vge	.22337	.0303	-.56354	.0001	.0013	.0012
Dev	.09457	.0124	.3065	.0004	.0002	.0001
RSD	42.338	40.9	54.388	383.3	15.3	12.78

lems	Ca	Cd	Co	Cr	Cu	Fe
ıits	ppm	ppm	ppm	ppm	ppm	ppm
vge	-.0042	.0011	.0011	.0015	.0008	H2.757
Dev	.0039	.0002	.0001	.0003	.0001	.0734
RSD	93.32	16.95	11.67	22.96	10.75	2.663

lems	K	Mg	Mn	Na	Ni	2203/1
ıits	ppm	ppm	ppm	ppm	ppm	ppb
vge	.0664	.0111	.0015	2.535	.0016	-.05989
Dev	.011	.0041	.0003	.0103	.0006	.91429
RSD	16.6	37.25	21.09	.4068	38.07	1526.4

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
ıits	ppb	ppb	ppb	ppb	ppb	ppb
vge	.41616	.25801	1.7574	.13755	1.3340	1.9683
Dev	.73749	.4715	1.2086	1.3385	1.0491	1.2999
RSD	177.21	182.74	68.77	973.01	78.644	66.042

lems	1960/1	1960/2	Sn	Tı	Tl1908	V
ıits	ppb	ppb	ppm	ppm	ppb	ppm
vge	.57303	-.08026	.6113	.0026	3.4122	.0014
Dev	1.7902	1.7558	.8122	.0006	.60434	.0001
RSD	312.41	2187.4	132.9	21.4	17.711	5.566

lems	Zn	Sı2881	Mo2020
ıits	ppm	ppm	ppm
vge	.0110	.1091	.0031
Dev	.0006	.0593	.0013
RSD	5.565	54.38	41.04

od: PROFCLP2 Sample Name: CCB3 Operator:
Time: 02/15/97 16:21 Filename: DEC0122
e: CONC Type: S Corr. Factor: 1.00000
b ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
s	ppb	ppm	ppb	ppm	ppm	ppm
	.09174	-.0048	.17509	.0006	.0004	.0005
ev	.19733	.0068	1.0909	.0001	.0002	.0001
SD	215.11	143.5	623.06	23	45.83	22.45

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
	-.0266	.0004	.0005	.0004	-.0000	.0588
	.0021	.0001	.0003	.0004	.0002	.0165
SD	7.782	35.11	71.18	92.42	585.2	28.09

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0248	-.0065	.0005	.0064	.0003	-.62389
	.0229	.0063	.0003	.0055	.0009	1.7842
	92.48	97.07	58.05	84.82	263.5	285.98

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	-.18380	-.32993	2.1747	-.88903	1.0215	2.7499
ev	1.4852	.40454	1.3772	1.6685	2.197	1.3006
	808.06	122.62	63.329	187.67	215.06	47.298

ems	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
	2.0586	-2.3611	.1297	.0007	1.7331	.0004
	2.4403	2.2244	1.174	.0003	.83983	.0007
SD	118.54	94.212	905.5	37.53	48.458	168.3

s	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	.0010	.0333	.0004
	.0002	.0794	.0007
	17.56	238.3	193.3

thod: PROFCLP2 Sample Name: ~~XXX223~~ BC0223,mm 2/24/97 222222 Operator: Needs Further Dilution
n Time: 02/15/97 16:28 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
b ID.: 9702040 Cust. Smpl. ID.: Cust. ID.:
2117197 CG2

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
ge	k754.85	54.71	k282.01	k.0894	.2204	.0053
ev	1.3489	.074	1.3087	.0009	.0004	0
SD	.17869	.1352	.46404	.9614	.1937	.716

ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	k6.542	k.0672	.0208	k.8767	k.2600	S30.03
ev	.0223	.0002	.0003	.0033	.0007	.1866
SD	.3409	.2548	1.579	.3712	.2644	.6213

ems	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	20.05	k8.703	ki.266	10.93	.1296	k122.76
ev	.0367	.0242	.0036	.007	.0015	.30216
SD	.1828	.278	.2874	.0637	1.173	.24614

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	k107.98	k112.90	k17.618	k-111.71	k21.228	k15.816
ev	1.2839	.7558	1.9519	.9919	1.0608	2.98
SD	1.189	.66945	11.079	.8879	4.9972	18.842

ems	1960/1	1960/2	Sn	Ti	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	k14.524	k-174.74	k-93.87	2.829	k-17.608	k.3430
ev	2.5799	1.3416	2.639	.0071	2.0592	.0007
SD	17.763	.76776	2.811	.2501	11.695	.2044

ems	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	k2.990	507.0	.0947
ev	.0059	.5686	.0006
SD	.1972	.1122	.6409

222222 Not required ltr dtd 2/24/97

od: PROFCLP2 Sample Name: XXX219P Operator:
Time: 02/15/97 16:36 Filename: DEC0122
: CONC Type: S Corr. Factor: 1.00000
b ID.: 97020338 Cust. Smpl. ID.: Cust. ID.:
2/17/97
C62

ems	Ag	Al	As1890	B	Ba	Be
s	ppb	ppm	ppb	ppm	ppm	ppm
	27.330	1.922	23.205	-.0017	.0065	.0103
	.29211	.0175	2.3152	.0004	0	.0001
SD	1.0688	.9124	9.9767	26.98	.5472	.7565

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
	.3402	.0102	.1025	.0558	.0605	8.862
	.0033	.0002	.0007	.0004	.0001	.0873
SD	.9611	1.911	.6582	.7285	.2278	.9856

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	.2317	.2238	.0481	.1438	.1017	13.767
	.0078	.0039	.0004	.0017	.0009	.23452
	3.354	1.734	.859	1.157	.8621	1.7035

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	11.174	12.038	121.94	7.8078	120.76	122.53
ev	.22614	.13762	1.8614	1.2696	2.2794	1.7058
	2.0238	1.1433	1.5265	16.261	1.8876	1.3922

ems	1960/1	1960/2	Sn	Tl	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
	2.9386	10.238	4.799	.1163	18.945	.1123
	1.7577	2.7776	.323	.0016	.34484	.0009
SD	59.813	27.129	6.732	1.362	1.8203	.841

s	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	.0611	18.05	.0076
	.0008	.2441	.0004
	1.33	1.353	5.363

B60-2252, 2/24/97

ethod: PROFCLP2 Sample Name: ~~XXX225P~~ Operator:
ın Time: 02/15/97 16:43 Filename: DEC0122
)de: CONC Type: S Corr. Factor: 1.00000
ıb ID.: 97020448 Cust. Smpl. ID.: Cust. ID.:
2/17/97 CGZ

.ems	Ag	Al	As1890	B	Ba	Be
ıits	ppb	ppm	ppb	ppm	ppm	ppm
⁄ge	114.49	95.11	159.03	.7567	.2450	.0172
)ev	.19409	.118	2.1122	.0034	.0001	.0001
RSD	.16952	.1241	1.3281	.443	.0506	.4466

.ems	Ca	Cd	Co	Cr	Cu	Fe
ıits	ppm	ppm	ppm	ppm	ppm	ppm
⁄ge	20.82	.0093	.1312	.5991	.6046	236.1
)ev	.0669	0	.0004	.0017	.0005	.7031
RSD	.3214	.4399	.3248	.2799	.0906	.2977

ıems	K	Mg	Mn	Na	Ni	2203/1
ıits	ppm	ppm	ppm	ppm	ppm	ppb
⁄ge	37.75	104.7	1.078	66.94	.3324	80.163
)ev	.1059	.2813	.0023	.2322	.0012	3.8688
RSD	.2805	.2687	.2131	.3468	.3546	4.8261

ıems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
ıits	ppb	ppb	ppb	ppb	ppb	ppb
⁄ge	93.071	88.773	135.37	19.485	139.35	133.38
)ev	1.5416	.26474	1.8906	1.6239	3.5126	2.8864
RSD	1.6564	.29822	1.3966	8.3345	2.5208	2.164

ıems	1960/1	1960/2	Sn	Ti	Tl1908	V
ıits	ppb	ppb	ppm	ppm	ppb	ppm
⁄ge	11.162	23.639	-43.74	1.666	26.054	.3538
)ev	7.6214	3.9095	1.23	.0008	1.7262	.0001
RSD	68.279	16.538	2.812	.0466	6.6252	.0441

ıems	Zn	Si2881	Mo2020
ıits	ppm	ppm	ppm
⁄ge	4.099	1427.	.1151
)ev	.0118	3.686	.0003
RSD	.2882	.2582	.2993

222222 mtr 2/24/97 Not Req'd

thod: PROFCLP2 Sample Name: XX225AP Operator:
Time: 02/15/97 16:50 Filename: DEC0122
: CONC Type: S Corr. Factor: 1.00000
ab ID.:9702045P Cust. Smpl. ID.: Cust. ID.:
2/17/97 CGZ

tems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
	21.543	8.788	25.649	.9214	.0738	.0132
Dev	.06047	.0191	1.2856	.002	.0001	0
RSD	.28071	.2176	5.0122	.2224	.1903	.2084

ms	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
	22.03	.0114	.1229	.0454	.0919	49.35
	.0647	.0002	.0009	.0006	.0002	.1787
RSD	.2938	1.99	.7399	1.383	.2502	.3621

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	37.45	126.3	.8742	73.21	.2741	3.9938
Dev	.0621	.3128	.0018	.0324	.0007	1.656
	.1658	.2476	.211	.0442	.2455	41.464

tems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	8.4317	6.9542	130.71	10.969	128.10	132.02
Dev	.89097	.67692	2.0115	1.9021	.89764	3.0647
	10.567	9.7339	1.5388	17.34	.70075	2.3214

tems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
	14.483	9.2147	-13.70	.0008	23.378	.1028
	3.37	2.2254	.6607	.0001	.62446	.0002
RSD	23.269	24.151	4.823	10.99	2.6712	.1643

s	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
ge	5.244	218.9	.0054
	.0111	.4606	.0002
	.2124	.2104	3.539

ethod: PROFCLP2 Sample Name: 9703628 Operator:
un Time: 02/15/97 16:57 Filename: DEC0122
ode: CONC Type: S Corr. Factor: 1.00000
ab ID.: Cust. Smpl. ID.: Cust. ID.:

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	5.6505	.0636	1.3044	.0548	.0151	.0001
Dev	.34789	.0067	1.8016	.0003	.0001	0
RSD	6.1568	10.53	138.12	.4804	.4333	2.211

lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	5.929	.0001	.0012	.0023	.0595	.3486
Dev	.011	0	.0002	.0003	.0001	.0167
RSD	.1863	21.38	13.75	14.47	.1448	4.79

lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	4.913	2.582	.0295	30.69	.0058	1.7808
Dev	.0038	.0187	.0002	.1293	.0006	.13067
RSD	.0779	.7224	.6596	.4214	9.579	7.3381

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	3.2413	2.7554	.62027	-1.3546	2.4579	-.29764
Dev	1.4915	1.0238	1.3166	1.0191	1.1094	2.2874
RSD	46.016	37.155	212.26	75.237	45.134	768.5

lems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	.23779	-2.1500	.4075	.0024	1.2041	.0084
Dev	1.781	.68691	1.314	.0002	1.0492	.0005
RSD	748.94	31.949	322.5	8.358	87.133	5.732

lems	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
vge	.0413	90.54	.0004
Dev	.0006	.0727	.0002
RSD	1.509	.0803	40.08

thod: PROFCLP2 Sample Name: ICSAF Operator:
n Time: 02/15/97 17:19 Filename: DEC0122
d: CONC Type: S Corr. Factor: 1.00000
b ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
	1.1146	533.6	2.9379	-.0002	.0077	.0005
	.15402	.673	3.5411	.0006	0	0
SD	13.818	.1261	120.53	272.8	.5356	5.602

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	511.9	.0011	.0015	-.0017	.0082	211.4
	.5954	.0002	.0001	.0003	.0001	.1816
S	.1163	18.5	3.744	15.37	.9416	.0859

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0018	516.8	-.0056	.0494	.0024	-13.874
	.0075	.5242	.0004	.0022	.0001	2.763
	418.3	.1014	6.477	4.393	4.625	19.915

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	5.9186	-.67176	-2.6980	1.0585	1.1418	-4.6155
	.89335	1.0806	2.6667	3.549	1.451	3.3053
S	15.094	160.86	98.838	335.28	127.08	71.613

s	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
	-1.3814	2.2762	-53.08	-.0149	2.2594	-.0022
	4.1868	4.4637	1.947	.0002	3.0151	.0005
SD	303.07	196.1	3.669	1.296	133.45	25.1

s	Zn	Si2881	Mo2020
s	ppm	ppm	ppm
ge	.0132	.1179	-.0004
	.0002	.0376	.0017
	1.244	31.86	443.9

thod: PROFCLP2 Sample Name: ICSABF Operator:
n Time: 02/15/97 17:27 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
b ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
ge	1113.5	532.8	1030.3	1.076	.5665	.5251
ev	1.7165	1.289	4.4944	.0028	.0008	.0016
SD	.15415	.242	.43622	.2572	.1326	.3027

ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	506.6	.9489	.4603	.4968	.5838	209.7
ev	1.974	.0055	.0008	.0017	.0009	.9583
SD	.3896	.5838	.17	.343	.1553	.4571

ems	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0171	513.3	.4859	.0550	.9251	872.04
ev	.0099	2.515	.0013	.0007	.004	.62421
SD	57.63	.4899	.2739	1.26	.4299	.07158

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	899.30	890.23	-6.5600	996.74	-4.0274	-7.8249
ev	5.0843	3.1993	3.7449	1.8505	4.9613	3.1528
SD	.56536	.35937	57.088	.18565	123.19	40.292

ems	1960/1	1960/2	Sn	Ti	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	1010.1	990.06	-49.94	-.0145	907.87	.5031
ev	3.7052	3.9672	.9787	.0002	3.4107	.0009
SD	.36681	.4007	1.96	1.588	.37568	.1785

ems	Zn	Si2881	Mo2020
its	ppm	ppm	ppm
ge	1.054	1.094	1.021
ev	.0037	.0343	.005
SD	.3548	3.138	.4879

ethod: PROFCLP2 Sample Name: 9703820 Operator:
u Time: 02/15/97 17:05 Filename: DEC0122
de: CONC Type: S Corr. Factor: 1.00000
ab ID.: Cust. Smpl. ID.: Cust. ID.:

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	3.3727	.0300	.92286	.0498	.0143	.0000
Dev	.19379	.0005	.59313	.0011	.0001	0
RSD	5.7461	1.679	64.271	2.212	.4817	29.09

ms	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
ge	6.904	.0000	.0010	.0017	.0703	.2325
v	.0207	.0001	.0004	.0001	.0002	.0058
SD	.2998	251.7	34.77	7.897	.2522	2.507

ms	K	Mg	Mn	Na	Ni	2203/1
ts	ppm	ppm	ppm	ppm	ppm	ppb
ge	4.426	2.922	.0336	35.29	.0045	.53152
v	.0152	.0019	.0001	.083	.0003	1.3935
D	.3429	.0638	.2222	.2352	5.982	262.17

lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
ts	ppb	ppb	ppb	ppb	ppb	ppb
e	1.9141	1.4542	.15176	.46532	.42434	.01520
Dev	2.0174	.88174	.18442	3.1052	2.583	1.1822
D	105.4	60.636	121.52	667.31	608.69	7776.7

lems	1960/1	1960/2	Sn	Ti	T11908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
e	4.0123	-1.3059	-1.068	.0008	.87996	.0075
v	4.5226	2.4137	.9704	.0001	.42037	.0003
RSD	112.72	184.82	90.87	17.94	47.772	3.656

ms	Zn	Si2881	Mo2020
nits	ppm	ppm	ppm
ge	.0360	98.82	.0003
v	.0003	.1475	.0001
D	.7071	.1493	29.61

ɜthod: PROFCLP2 Sample Name: CRIF Operator:
ın Time: 02/15/97 17:12 Filename: DEC0122
)de: CONC Type: S Corr. Factor: 1.00000
ıb ID.: Cust. Smpl. ID.: Cust. ID.:

.ems	Ag	Al	As1890	B	Ba	Be
ıits	ppb	ppm	ppb	ppm	ppm	ppm
⁄ge	19.822	-.0168	19.390	.1994	.0000	.0104
)ev	.43832	.0017	.23562	.0002	.0001	.0001
⁄SD	2.2113	10.33	1.2152	.1254	381.1	.4912

ɨems	Ca	Cd	Co	Cr	Cu	Fe
ıits	ppm	ppm	ppm	ppm	ppm	ppm
⁄ge	-.0252	.0104	.1008	.0205	.0514	-.0029
)ev	.0008	.0001	.0008	.0004	.0002	.0022
⁄SD	3.313	1.178	.8031	1.816	.3847	76.76

ɨems	K	Mg	Mn	Na	Ni	2203/1
ıits	ppm	ppm	ppm	ppm	ppm	ppb
⁄ge	.0095	-.0052	.0311	.0210	.0839	4.2166
)ev	.0197	.0047	.0002	.0069	.0009	1.6193
⁄SD	207.8	91.16	.5818	32.76	1.106	38.403

ɨems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
ıits	ppb	ppb	ppb	ppb	ppb	ppb
⁄ge	6.9032	6.0089	126.48	9.4346	126.59	126.43
)ev	1.415	.52123	1.0066	1.1714	1.154	2.085
⁄SD	20.497	8.6743	.79584	12.417	.9116	1.6491

ɨems	1960/1	1960/2	Sn	Ti	Tl1908	V
ıits	ppb	ppb	ppm	ppm	ppb	ppm
⁄ge	9.6184	9.3424	-.7255	.0001	21.026	.1014
)ev	4.108	1.5042	1.288	.0001	.87241	.0003
⁄SD	42.71	16.101	177.6	142.2	4.1493	.2658

ɨems	Zn	Si2881	Mo2020
ıits	ppm	ppm	ppm
⁄ge	.0428	2.405	.0202
)ev	.0001	.0246	.0002
⁄SD	.2906	1.023	.8297

hod: PROFCLP2 Sample Name: CCV4 Operator:
Time: 02/15/97 17:34 Filename: DEC0122
: CONC Type: S Corr. Factor: 1.00000
b ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
	1023.1	50.61	504.87	2.616	2.638	2.563
	1.3652	.1037	.79705	.0085	.0041	.0029
SD	.13343	.2049	.15787	.3253	.1545	.1117

s	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
	46.39	2.488	2.412	2.512	2.589	48.93
	.057	.0037	.0043	.0011	.0032	.0524
	.123	.1497	.1801	.0435	.1241	.1072

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	86.56	47.82	2.467	85.21	2.444	462.65
ev	.1339	.038	.0019	.2038	.0063	2.5653
	.1547	.0794	.075	.2392	.2582	.55446

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	459.64	460.64	1013.2	499.16	1000.3	1019.7
ev	2.5144	2.1628	1.2427	9.0106	3.7185	1.284
	.54704	.46952	.12264	1.8051	.37172	.12592

ems	1960/1	1960/2	Sn	Ti	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
	508.36	494.57	2982.	2.592	493.73	2.505
	9.7807	10.585	5.595	.0016	1.0902	.0029
SD	1.924	2.1402	.1876	.0636	.2208	.1163

s	Zn	Si2881	Mo2020
s	ppm	ppm	ppm
	2.586	51.35	2.542
	.0037	.0847	.0017
	.1446	.165	.0685

·thod: PROFCLP2 Sample Name: CCVL4 Operator:
ın Time: 02/15/97 17:41 Filename: DEC0122
›de: CONC Type: S Corr. Factor: 1.00000
ıb ID.: Cust. Smpl. ID.: Cust. ID.:

.ems	Ag	Al	As1890	B	Ba	Be
ıits	ppb	ppm	ppb	ppm	ppm	ppm
·ge	.46771	.0812	-.33871	.0001	.0014	.0013
)ev	.53211	.021	1.9143	.0005	.0002	.0001
:SD	113.77	25.88	565.17	777.1	13.76	11.73

.ems	Ca	Cd	Co	Cr	Cu	Fe
ıits	ppm	ppm	ppm	ppm	ppm	ppm
·ge	.0608	.0015	.0010	.0012	.0008	2.600
)ev	.0162	.0003	.0002	.0005	.0001	.0136
:SD	26.58	17.79	23.58	41.88	13.71	.5226

.ems	K	Mg	Mn	Na	Ni	2203/1
ıits	ppm	ppm	ppm	ppm	ppm	ppb
·ge	.0652	.0754	.0011	2.557	.0014	-1.1502
)ev	.0153	.0189	.0002	.0085	.0002	.91925
:SD	23.43	25.13	19.02	.3336	16.88	79.92

.ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
ıits	ppb	ppb	ppb	ppb	ppb	ppb
·ge	.55118	-.01499	1.3782	.63762	2.8859	.62502
)ev	.60901	.55885	.84851	1.6783	1.4659	.98095
:SD	110.49	3727.7	61.567	263.2	50.795	156.95

.ems	1960/1	1960/2	Sn	Ti	Ti1908	V
ıits	ppb	ppb	ppm	ppm	ppb	ppm
·ge	.85640	.52798	.8057	.0014	2.6511	.0014
)ev	2.7552	1.5713	.4855	.0002	.60128	.0002
:SD	321.72	297.6	60.26	12.35	22.68	16.68

.ems	Zn	Si2881	Mo2020
ıits	ppm	ppm	ppm
·ge	.0275	-.1183	.0031
)ev	.0003	.0353	.0014
:SD	1.197	29.83	44.78

M 0126

od: PROFCLP2 Sample Name: CCB4 Operator:
Time: 02/15/97 17:49 Filename: DEC0122
: CONC Type: S Corr. Factor: 1.00000
ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
s	ppb	ppm	ppb	ppm	ppm	ppm
	.21748	.0048	-.19263	.0005	.0005	.0005
ev	.39455	.0115	1.0847	.0004	.0001	.0001
SD	181.42	236.3	563.1	75.32	25.39	28.49

s	Ca	Cd	Co	Cr	Cu	Fe
s	ppm	ppm	ppm	ppm	ppm	ppm
	-.0137	.0005	.0006	.0006	-.0001	.0047
	.0068	.0001	.0002	.0002	.0003	.005
SD	49.83	22.53	31.75	38.57	473	105.7

s	K	Mg	Mn	Na	Ni	2203/1
s	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0314	.0112	.0006	.0038	.0011	.25586
	.0062	.0078	.0001	.0043	.0001	.31469
	19.89	69.26	27.66	114	8.506	122.99

ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
s	ppb	ppb	ppb	ppb	ppb	ppb
	-.81627	-.45888	.07808	.90244	-.77537	.50372
ev	.60863	.33272	1.1194	1.642	1.5441	2.2515
	74.562	72.507	1433.4	161.95	199.15	446.97

ems	1960/1	1960/2	Sn	Tl	Tl1908	V
s	ppb	ppb	ppm	ppm	ppb	ppm
	2.8300	-.06031	.8069	.0004	1.6863	.0004
	3.4256	2.3189	.9636	.0002	1.8362	.0003
SD	121.05	3844.8	119.4	57.29	108.89	85.55

s	Zn	Si2881	Mo2020
ts	ppm	ppm	ppm
	.0006	.0159	.0009
	.0001	.0449	.0003
	17.34	282	31.74

%RSD	[illegible]	[illegible]	[illegible]				
#2	.0002	.0076	[illegible]				
#3	.0015	.0077	.0003	.0013	[illegible]	[illegible]	
Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.4017	32.30	.0306	-8.2303	4.1757	.04491	1.0378
SDev	.0010	.07	.0001	14.7800	6.4899	.59313	1.9099
%RSD	.2539	.2038	.3719	179.558	155.47	1320.6	184.09
#1	.4004	32.22	.0305	-.64992	-.26604	.79115	3.0453
#2	.4017	32.31	.0306	-25.291	11.666	-.63996	-.46855
Elem	Ppb960	Ppb371	Ppb886	Ppb314	Ppb978	Ppm577	Ppm903
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
SDev	1.1176	13.478	8.9423	28.1159	9.2261	.485	.0011
%RSD	1521.2	165.94	357.75	343.60	304.24	18.82	317.0
#1	-.55634	.89084	.35907	4.8156	-3.2388	-2.047	-.0010
#2	1.3638	-.19698	4.6639	6.6785	-1.2900	-2.684	-.0010
#3	-.58704	23.673	-12.522	-29.057	13.626	-2.999	.0009
Elem	Ppb008	Ppm	Ppm	Ca2281	Ppm020		
Units	ppb	ppm	ppm	ppm	ppm		
Avge	3.9336	.0017	1.255	69.03	.0058		
SDev	4.8717	.0022	.003	.18	.0002		
%RSD	122.70	130.6	.2392	.2668	3.0459		
#1	1.0751	.0004	1.252	68.83	.0058		
#3	9.6079	.0043	1.254	69.08	.0059		

Actual paper jam
mtm 2/24/97

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IntStd	1	2	3	4	5	6	7
	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

[illegible] Sat 02-15-97 03:06:34 PM page 1

Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#2	92.030	94.95	136.34	[illegible]	.4738	.0064	20.79
#3	84.419	94.90	136.61	[illegible]	.4735	.0063	20.73
Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0321	.5752	.5250	235.4	37.74	104.5
SDev	.0001	.0001	.0007	.0012	.2	.09	.1
%RSD	9.619	.2661	.1256	.2352	.0641	.2414	.1104
#1	-.0008	.0321	.5758	.5236	235.5	37.64	104.6
#2	-.0007	.0321	.5755	.5258	235.4	37.74	104.5
#3	-.0007	.0322	.5744	.5256	235.2	37.83	104.4
Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	1.042	67.27	.2515	73.667	84.191	80.687	7.4763
SDev	.001	.04	.0005	.357	.985	.683	2.4694
%RSD	.0604	.0524	.1852	.48458	1.1697	.84626	33.029
#1	1.041	67.23	.2510	73.317	83.206	80.108	10.168
#2	1.042	67.29	.2518	73.849	85.271	81.487	8.9459
Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	9.8458	10.644	5.8942	3.0521	13.237	-43.74	1.640
SDev	1.8337	2.253	3.0417	2.9274	1.448	.22	.001
%RSD	18.624	21.171	51.604	95.915	10.938	.5020	.0465
#1	7.7285	11.706	9.3992	-.15426	11.664	-43.51	1.639
#2	10.887	8.0561	3.9465	5.5822	13.534	-43.77	1.640
#3	10.968	12.171	4.3370	3.7881	14.513	-43.94	1.640
Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Units	ppb	ppm	ppm	ppm	ppm		
Avge	6.7709	.2486	4.039	1421.	.1145		
SDev	.3893	.0004	.003	1.	.0008		
%RSD	5.7532	.1784	.0731	.0611	.7033		
#1	6.8281	.2488	4.041	1421.	.1155		
#3	6.7136	.2489	4.035	1422.	.1141		

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IntStd	1	2	3	4	5	6	7
	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

M 9128

[illegible]	371.030	--						
Avge	28804	--	--	--	--	--	--	
SDev	134.3863	--	--	--	--	--	--	
RSD	.4665596	--	--	--	--	--	--	
#1	28935	--	--	--	--	--	--	
#2	28809	--	--	--	--	--	--	
#3	28667	--	--	--	--	--	--	

[illegible] SpecID: 297 SampleName: XXX225D Operator: I

SDev	.180	.11	.79	.0027	.0001	.0000	.10
RSD	.1739	.1316	.58480	.3522	.0660	.1137	.4687
2	92.692	85.42	134.78	.7934	.2239	.0062	20.88
3	92.478	85.87	135.16	.7579	.2241	.0063	20.87

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0319	.5634	.5198	235.4	36.92	104.7
SDev	.0003	.0003	.0014	.0011	.4127	.0782	.3734
RSD	-.3069	.9315	.2619	.2107	.1753	.2118	.3566
2	-.0012	.0318	.5642	.5185	235.5	36.90	104.8
3	-.0007	.0322	.5645	.5201	236.4	36.91	105.1

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	1.037	66.95	.2460	72.080	81.400	78.297	5.4011
SDev	.003	.14	.0006	1.220	2.119	1.382	.7527
RSD	.2993	.2085	.2395	1.693	2.603	1.765	13.938
2	1.037	66.87	.2458	72.119	78.999	76.709	5.1869
3	1.040	67.11	.2466	73.380	82.189	79.223	6.2377

Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
SDev	1.5613	1.7674	4.1548	1.5816	2.5771	.21	.1558
RSD	11.841	13.249	20.375	86.902	7.1718	3.094	.1118
#2	9.5036	8.3599	4.5828	1.5865	14.256	44.11	1.437

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	6.3908	.2453	4.046	1317.	.1081
SDev	.2879	.0003	.016	3.247	.0018
RSD	4.5071	.1457	.3966	.2467	1.653
2	6.7171	.2457	4.047	1318.	.1099
3	6.6696	.2456	4.059	1323.	.1097

IntStd	1	2	3	4	5	6	7
Aden	29130	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	29038	--	--	--	--	--	--
Dev	91.53435	--	--	--	--	--	--
RSD	.3152176	--	--	--	--	--	--
1	29033	==	==	==	==	==	==

M 0123

Method: CONAg Corr. Factor: 1 As1890 Operator:

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.475	65.50	.6965	504.58	511.85	509.43	318.51
SDev	.001	.14	.0015	3.67	1.73	2.26	2.50
%RSD	.0691	.2156	.2221	.72656	.33879	.44414	.78609
#1	1.475	65.39	.6953	508.78	513.61	512.00	320.61
#2	1.475	65.45	.6983	502.03	511.81	508.56	319.19
#3	1.473	65.66	.6960	502.93	510.14	507.74	315.74

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	1793.7	.7041	4.399	1439.	.1183
SDev	1.	.0002	.004	1.	.0009
%RSD	.09806	.0333	.0865	.0448	.7964
#1	1793.7	.7043	4.399	1438.	.1193
#3	1793.5	.7039	4.395	1439.	.1187

IntStd 1 2 NOTUSED 3 NOTUSED 4 NOTUSED 5 NOTUSED 6 NOTUSED 7 NOTUSED

Method: CONAg Corr. Factor: 1 As1890 Operator:

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0724	14.429	3.2022	2.7282	1.7447	28.253	.3594
SDev	1.5475	.4809	1.8142	2.7508	1.1845	1.324	.0006
%RSD	74.671	29.274	56.653	100.83	67.895	16.04	.1730
#1	3.6917	1.6623	5.0104	5.9025	2.5876	-7.448	.3396
#2	1.9172	2.1139	3.2141	1.2375	2.2560	-7.531	.3399
#3	.60844	1.1526	1.3821	1.0445	.39033	-9.781	.3388

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	6.1479	.0515	.8601	295.0	.0240
SDev	1.7662	.0001	.0008	.2	.0005
%RSD	28.729	.1291	.0897	.0822	2.090

M 0140

IntStd	1	2	3	4	5	6	7
Weighted	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avg	29055086						
#1	29028	--	--	--	--	--	--
#2	29061	--	--	--	--	--	--
#3	29071	--	--	--	--	--	--

[redacted]

[illegible] Sat 02-15-97 03:35:44 PM page 1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.8316	72.83	.1899	.51458	1.0740	.88805	.82244
#2	.8314	72.69	.1902	1.5393	1.8488	1.7627	1.6306
#3	.8343	73.06	.1886	-1.7535	3.7320	1.9057	-.15520

Elem	Se1960	2063/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.0795	.73176	.78255	3.7911	-.27475	-13.39	.0000
SDev	1.4057	.54577	1.0895	4.8376	2.67175	.85	.0002
%RSD	130.22	74.582	139.23	127.60	972.42	6.087	566.9
#1	.44352	.54420	.96093	8.0063	-3.3326	-12.95	.0002
#2	2.6908	1.3466	1.7719	4.8579	1.6084	-14.60	-.0001
#3	.10411	.30451	-.38518	-1.4909	.89993	-14.10	-.0000

Elem	T11908	V	Sn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	3.6599	-.0005	5.137	216.2	.0051
SDev	1.0222	.0002	.011	.4	.0002
%RSD	27.930	48.44	.2153	.1845	4.088
#1	4.0235	-.0003	5.133	215.9	.0054
#2	2.5056	-.0007	5.129	216.0	.0050
#3	4.4506	-.0004	5.150	216.6	.0051

IntStd	1	2	3	4	5	6	7
Weighted	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	29422						
SDev	222.2417	--	--	--	--	--	--
%RSD	.7551246	--	--	--	--	--	--
#1	28529	==	==	==	==	--	--

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
#1	.0010	.0238	.0246	.0375	48.85	37.03	124.7
#2	.0012	.0236	.0239	.0378	49.52	36.88	124.5
Avge	.8315	72.47	.1900	-.67934	1.5061	.77867	.91525
SDev	.0006	.14	.0005	.94528	1.1655	.48911	1.6931
%RSD	.0686	.1880	.2663	139.15	77.385	62.685	184.99
#1	.8317	72.63	.1903	-1.5797	2.3246	1.0248	2.7993
#2	.8319	72.40	.1895	.30522	.17168	.21649	.42534
#3	.9308	72.39	.1903	-.76354	2.0220	1.0947	-.47893

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.6221	-.93932	1.6407	5.3664	.05214	-13.17	-.0004
SDev	.5964	1.99366	1.5573	3.4132	.81528	1.21	.0000
%RSD	32.730	212.24	84.605	63.604	1563.6	9.169	.0380
#1	1.7392	1.3407	3.5271	4.5991	.31091	-11.94	-.0004
#2	2.4556	-1.8043	1.5380	9.0980	-.86111	-14.36	-.0004
#3	1.2715	-2.3544	.45693	2.4022	.70663	-13.22	-.0004

Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppb	ppm	ppm	ppb	ppb	Mpa020	
Avge	2.0611	.00006	.135	215.9	.644		
SDev	.9843	.0003	.002	.2	.0005		
%RSD	47.757	44.63	.0417	.0926	11.37		
#1	1.1228	-.0003	5.134	214.9	.0043		

IntStd	1	2	3	4	5	6	7
Name	Scandium	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	28919	--	--	--	--	--	--
SDev	19.56003	--	--	--	--	--	--
%RSD	.0676384	--	--	--	--	--	--

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
%RSD	.3063	.1635	.1053	.0695	.2764	.0562	.2647
#1	.0502	.4952	.2209	.2964	49.09	36.94	123.5
#2	.0500	.4940	.2212	.2962	49.09	36.98	123.2
#3	.0497	.4937	.2213	.2960	48.86	36.95	122.8

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	1.312	71.83	.6685	464.52	467.01	466.18	512.07
SDev	.002	.17	.0018	1.24	2.05	1.48	2.09
%RSD	.1578	.2338	.2665	.26646	.43860	.31664	.40769
#1	1.314	72.01	.6691	465.83	468.21	467.42	513.10
#2	1.313	71.68	.6700	463.38	469.18	465.59	513.44
#3	1.310	71.80	.6665	464.34	464.55	464.55	509.67

Elem	[illegible]	2068/1	2068/2	[illegible]	[illegible]	ppm	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	2049.2	508.95	515.62	2064.8	2040.0	-14.38	-.0003
SDev	14.5	3.74	1.39	5.9	18.9	.61	.0000
%RSD	.70682	.73459	.27104	.28600	.92750	4.129	14.53
#1	2036.1	511.69	513.91	2066.0	2051.2	-14.50	-.0003
#2	[illegible]	[illegible]	514.91	2070.3	2050.6	-14.54	-.0003
#3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-15.59	-.0003

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Elem	T11908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	1921.4	.4969	5.551	212.4	.0037
RSD	.24403	.01331	.22136	.23718	2.9904
#1	1920.6	.4977	5.563	212.8	.0036
#2	1926.5	.4974	5.553	212.4	.0036
#3	1917.2	.4957	5.539	211.8	.0038

IntStd	1	2	3	4	5	6	7
Elem	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	28418.50	--	--	--	--	--	--
Dev	74.04446	--	--	--	--	--	--
RSD	.2605560	--	--	--	--	--	--
#1	28393	==	==	==	==	==	==

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.0000	1.765	1.0000	1.0000	1.0000	1.0000	1.000
RSD	141.421	1.781	141.421	10.000	20.000	70.711	1.256
#1	-.07139	1.803	.96782	.1982	.0162	.0006	4.464
#2	-.15484	1.748	2.2111	.1826	.0159	.0006	4.361
#3	.03135	1.749	2.7625	.1832	.0156	.0005	4.375

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0052	.0052	.0090	10.18	7.136	25.34
RSD	20.001	50.003	10.001	30.003	10.78	1.985	1.233
#1	.0002	.0049	.0051	.0090	10.11	7.090	25.12
#2	.0003	.0053	.0052	.0087	10.09	7.084	25.17

Elem	Mn	Na	Ni	P2149/1	P2149/2	Pb2203	Sb2068
Avge	1.765	14.62	1.0414	2.29804	1.94517	1.12895	1.00003
Dev	.0022	.22	.0006	3.01932	1.79516	.29234	.9788
RSD	1.274	1.480	1.434	1013.1	3974.5	226.70	42.403
#1	.1759	14.86	.0419	2.33430	1.59431	-.19387	1.5055

Elem	Se1960	206S/1	206S/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
RSD	94.936	45.723	5.6562	74.893	38.139	54.25	28.80
#1	.57641	-1.8536	3.3170	4.3712	-1.3186	-1.091	-.0002
#2	2.2620	3.60860	3.1990	5.48030	2.19855	-2.560	-.0001

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Wavlen	371.030	--	--	--	--	--	--
Avge	28135.30	--	--	--	--	--	--
SDev	396.2847	--	--	--	--	--	--
%RSD	1.379098	--	--	--	--	--	--
#1	28278	--	--	--	--	--	--
#2	28955	--	--	--	--	--	--
#3	28973	--	--	--	--	--	--

Analysis Report Sample Name: XXX223 Sat 02-15-97 04:04:54 PM Operator: page 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	k2959.5	210.9	k1056.7	k.3182	.8522	.0189	k24.60
#2	k2962.7	211.1	k1055.2	k.3167	.8514	.0189	k24.62
#3	k2966.5	211.5	k1053.6	k.3200	.8536	.0188	k24.49
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.2777	.0730	k3.209	k1.037	S21.84	78.89	k30.67
SDev	.0007	.0006	.004	.004	.06	.26	.06
%RSD	.2600	.8242	.1353	.4149	.2859	.3321	.1818
#1	k.2776	.0730	k3.211	k1.034	S21.78	78.70	k30.69
#2	k.2771	.0737	k3.212	k1.035	S21.83	78.78	k30.71
#3	k.2785	.0725	k3.204	k1.042	S21.91	79.19	k30.60

Elem	Mn	Na	2063/1	2063/2	Pb2203	Sb2068
Units	ppm	ppm	ppb	ppb	ppb	ppb
#1	k4.532	36.77	.4477	k431.09	k382.53	k398.70	k66.314
#2	k4.545	36.69	.4475	k428.84	k381.62	k397.34	k68.056
#3	k4.534	36.82	.4447	k432.55	k380.58	k399.89	k66.749

Elem	Se1960	2069/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
#1	k-460.09	k78.299	k60.330	k44.890	k-712.20	k-348.6	10.47
#2	k-460.97	k78.696	k62.743	k39.879	k-710.77	k-352.8	10.48
#3	k-459.50	k75.675	k62.292	k47.371	k-712.55	k-347.0	10.49

Elem	V	Zn	Sr2891	Mo2020
Units	ppm	ppm	ppm	ppm
SDev	1.312	.002	.018	.0008
%RSD	1.7656	.1193	.1799	.0556	.2311
#1	k-73.853	k1.291	k9.755	1848.	.3477

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37385	--	--	--	--	--	--
SDev	88.88754	--	--	--	--	--	--
%RSD	.2377655	--	--	--	--	--	--
#1	37396	==	==	==	==	==	==

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Sample Name: CCV3

1	-1.1123	2.2686	4.2516	-.57856	-1.3791	-.7306	.0010
2	-2.4347	-1.5152	2.0168	2.5176	-4.9075	1.468	.0008
3	.87983	2.3112	1.9812	4.2369	-.79660	-.3480	.0004
rs	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
h	5.0000						

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sis Report

-5.0000

m	T11908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
e	1.7331	.0004	.0010	.0333	.0004
	.9398	.0007	.0002	.0794	.0007
D	48.458	168.3	17.56	238.3	193.3
	1.3367	.0011	.0012	.0544	.0010
	2.6978	-.0003	.0010	.1001	.0006
	1.1649	.0004	.0009	-.0545	-.0004
rs	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
h	10.000	.0500	.0200		
	-10.000	-.0500	-.0200		

Std	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
m	Y	--	--	--	--	--	--
len	371.030	--	--	--	--	--	--

P 0145

SDev	32.58221							
%RSD	.1141304	--	--	--	--	--	--	--
#1	28499	--	--	--	--	--	--	--
#2	28557	--	--	--	--	--	--	--
#3	28502	--	--	--	--	--	--	--

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Method: PROFCLP2 Sample Name: XXX223 Operator:
Run Time: 02/15/97 16:28:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	k.85	.71	k282.01	k.0894	.2204	.0053	k6.542
SDev	1.35	.07	1.31	.0009	.0004	.0000	.022
%RSD	.17870	.1352	.46405	.9614	.1937	.7160	.3409
#1	k756.28	54.79	k283.44	k.0899	.2208	.0053	k6.561
#2	k753.59	54.68	k280.86	k.0884	.2200	.0053	k6.517
#3	k754.70	54.65	k281.74	k.0899	.2203	.0053	k6.546

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.0672	.0208	k.8767	k.2600	S30.03	20.05	k8.703
SDev	.0002	.0003	.0032	.0007	.19	.04	.024
%RSD	.2548	1.579	.3712	.2644	.6213	.1828	.2780
#1	k.0674	.0207	k.8799	k.2602	S30.09	20.09	k8.727
#2	k.0671	.0205	k.8734	k.2592	S30.18	20.04	k8.678
#3	k.0670	.0212	k.8767	k.2605	S29.82	20.02	k8.705

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	k1.266	10.93	.1296	k122.76	k108.20	k113.04	k16.873
SDev	.004	.01	.0015	.30	1.29	.76	1.952
%RSD	.2774	.0681	1.1424	.24611	1.1890	.66945	11.079
#1	k1.262	10.92	.1275	k122.72	k108.20	k113.04	k16.873
#2	k1.269	10.94	.1313	k122.76	k106.40	k113.04	k14.999
#3	k1.267	10.92	.1306	k123.08	k106.59	k112.08	k17.393

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	[illegible]	[illegible]	k15.816	k14.524	k-174.74	k-93.87	2.929
SDev	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.64	[illegible]

SDev	.99	1.091	2....				
%RSD	.88791	4.9972	18.342	17.763	67.0	- -	
#1	k-112.17	k21.955	k12.710	k11.586	k-173.95	k-94.63	2.837
#2	k-110.58	k21.719	k18.651	k16.417	k-173.98	k-96.04	2.823
#3	k-112.40	k20.011	k16.086	k15.569	k-176.29	k-90.93	2.828

Elem	T11908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	k-17.608	k.3430	k2.990	507.0	.0947
SDev	1.2959	.0041	.1995	.1122	.0009
%RSD	7.3604	1.1938	6.6722	.02213	.9409
#1	k-15.245	k.3437	k2.996	507.5	.0942
#2	k-18.561	k.3423	k2.984	506.4	.0945
#3	k-19.018	k.3431	k2.990	507.1	.0954

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Elem	Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Wavlen	371.030	--	--	--	--	--	--
Avge	30319	--	--	--	--	--	--
SDev	180.2607	--	--	--	--	--	--
%RSD	.5945309	--	--	--	--	--	--
#1	30170	--	--	--	--	--	--
#2	30519	--	--	--	--	--	--
#3							

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Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	27.468	1.933	23.108	-.0011	.0065	.0103	.3423
#2	27.528	1.931	20.940	-.0019	.0065	.0103	.3420
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Avge	[illegible]	[illegible]	[illegible]	1.7577	2.778	.323	.0016
SDev	1.2696	2.28	1.71	[illegible]	[illegible]	[illegible]	[illegible]
%RSD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#3	6.4681	119.16	120.82	4.8708	7.2651	4.488	.1145

Elem	T11908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	18.945	.1123	.0611	18.05	.0076
SDev	.345	.0009	.0008	.24	.0004
%RSD	1.8263	.8116	1.3206	1.3302	5.0868
#1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#3	18.931	.1112	.0601	17.77	.0072

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Elem	[illegible]	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
[illegible]	[illegible]	[illegible]	[illegible]	--	--	--	--
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Elem	Y						
Wavlen	371.029						
[illegible]	[illegible]	==	==	==	--		
#1	28669	==	==	==	==	==	==

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.0094	.1308	.5986	.6044	236.3	37.65	104.6
#2	.0093	.1312	.5978	.6042	235.	37.74	104.5
Elem	Mn293	Na316	Ni1018	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	1.078	66.94	.3324	60.163	93.071	88.773	135.37
SDev	.002	.23	.0012	3.869	1.542	.265	1.89
%RSD	.2131	.3468	.3546	4.3261	1.6564	.29822	1.3966
#1	1.077	66.76	.3333	75.875	94.800	88.498	137.09
#2	1.076	66.87	.3311	81.221	92.575	88.794	133.34
#3	1.081	67.20	.3329	83.392	91.839	89.026	135.68
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	1.624	3.51	2.89	7.521	3.910	1.23	.002
%RSD	8.3345	2.5208	2.1640	68.279	16.538	2.812	.0467
#3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Elem	T11908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	26.054	.3538	4.099	1427.	.1151
SDev	1.726	.0002	.012	4.	.0003
%RSD	6.6252	.0441	.2882	.2582	.2993
#1	[illegible]	.3536	[illegible]	[illegible]	.1151

[illegible]	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	28457	--	--	--	--	--	--
SDev	[illegible]	--	--	--	--	--	--
%RSD	[illegible]	--	--	--	--	--	--
#1	[illegible]	==	==	==	==	==	==
#3	28561	--	--	--	--	--	--

Elem	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.8742	73.21	.2741	3.9938	8.4317	6.9542	130.71
SDev	.0018	.03	.0007	1.6560	.8910	.6769	2.01
%RSD	.2110	.0442	.2455	41.464	10.567	9.7339	1.5388
#1	.8758	73.23	.2749	5.7098	8.5839	7.6271	132.00
#2	.8746	73.17	.2739	3.8664	7.4745	6.2734	131.75
#3	.8722	73.22	.2736	2.4052	9.2368	6.9623	128.40

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	10.969	128.10	132.02	14.483	9.2147	-13.70	.0008
SDev	1.902	.90	3.06	3.373	2.2254	.66	.0001
%RSD	17.340	.70075	2.3214	23.269	24.151	4.823	10.99
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Elem	T11908	V	Sn	Sr2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	23.378	.1028	5.244	219.9	.0054
SDev	.624	.0002	.011	.5	.0002
%RSD	2.6712	.1643	.2124	.2194	3.539
#1	23.389	.1030	5.252	219.4	.0056
#2	23.997	.1028	5.249	219.0	.0053
#3	22.749	.1027	5.231	219.5	.0053

Analysis Report

Int Std	1 Column	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
[redacted]	[redacted]	--	--	--	--	--	--
Avge	28549	--	--	--	--	--	--
SDev	129.6702	--	--	--	--	--	--
%RSD	.45420B5	--	--	--	--	--	--
#1	28607	--	--	--	--	--	--
#3	[redacted]	==	==	==	==	==	==

M 0143

Analysis Report

Method: PROFCLP2 Sample Name: 9703628 Operator:

Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.6127	.0700	-.06315	.0545	.0151	.0001	5.936
#2	6.0158	.0642	3.3458	.0550	.0150	.0001	5.916
#3	5d3231	c0567	c63043	c0549	.0151	.0001	5.935
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.0001	.0014	.0025	.0595	.3661	4.918	2.603
#2	.0002	.0011	.0019	.0596	.3469	4.911	2.574
#3	.0002	.0012	.0025	.0594	.3329	4.911	2.569

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0295	30.69	.0058	1.7808	3.2413	2.7554	.62028
SDev	.0002	.13	.0006	.1307	1.4915	1.0238	1.3166
%RSD	.6596	.4214	9.579	7.3381	46.016	37.155	212.26
#1	.0293	30.56	.0056	1.9914	4.5866	3.6453	-.952462
#2	.0295	30.73	.0053	1.7112	3.8815	3.1591	1.7581

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	-1.3546	2.4579	-.29765	.23780	-2.1500	.4075	.0024
SDev	1.0191	1.1094	2.28740	1.7810	.6869	1.314	.0002
%RSD	75.237	45.134	768.80	748.94	31.949	322.5	8.358
#1	-2.4994	3.2836	-1.79289	-1.55691	-2.6554	-.6881	.0024
#2	-.21333	2.7532	1.23992	1.99561	-1.6441	1.5961	.0022

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.74659	.0087	.0420	90.55	.0004
#2	.46142	.0079	.0412	90.46	.0006
#3	2.4044	.0088	.0407	90.60	.0003

Sid	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
#1	[illegible]	==	==	==	==	==	==
#2	28183						

[illegible] Sat 02-15-97 05:12:25 PM page 1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	.1938	.0005	.59313	.0011	.0001	.0000	.021	
%RSD	5.7461	1.679	64.271	2.212	.4817	29.09	.2998	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3.5609	.0299	.95874	.0511	.0144	.0000	6.887	
[illegible]	3.1819	.0295	1.8455	.0494	.0142	.0001	6.898	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Elem	ppm						
Avge	.19300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	.0001	.0003	.0001	0001	[illegible]	[illegible]	[illegible]
%RSD	251.7	34.77	[illegible]	.2522	2.507	.3429	[illegible]
#1	.0001	.0013	.0018	.0705	.2389	4.441	2.923
#2	-.0001	.0006	.0016	.0701	.2312	4.427	2.920
#3	.0001	.0011	.0016	.0703	.2275	4.411	2.923
Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppb	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0336	29	.0045	1.3953	2.0141	.8543	.18176
SDev	.0001	.08	.0003	1.3935	2.0174	.8817	.18442
%RSD	.2222	.2352	5.982	262.17	105.40	60.636	121.52
#1	.0335	35.24	.0046	1.6818	1.2015	.6881	-.05774
#2	.0337	35.39	.0047	-1.0141	4.1380	2.4228	.22347
#3	.0336	35.29	.0045	1.3953	2.0141	.8543	.18176

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	.46532	.42435	.01520	4.0123	-1.3060	-1.068	.0008
SDev	3.1052	2.5830	1.1822	4.5226	2.4137	.970	.0001
%RSD	667.31	608.69	7776.7	112.72	184.82	90.87	17.94
#1	3.9285	3.1645	.03758	6.6404	.47665	-.5913	.0008
#2	-3.1998	-3.3794	-1.3491	1.7209	-4.0527	-2.4278	.0009
#3	.46532	.42435	.01520	4.0123	-1.3060	-1.068	.0008

Elem	T11908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	.87997	.0075	.0360	98.82	.0003
SDev	.42037	.0003	.0003	.15	.0001
%RSD	47.772	3.656	.7071	.1493	29.61
#1	1.3055	.0076	.0359	98.64	.0003
#2	.87997	.0075	.0360	98.82	.0003
#3	.45442	.0073	.0362	98.99	.0002

Elem	Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Avge	28530	--	--	--	--	--	--
SDev	55.63928	--	--	--	--	--	--
%RSD	.1950216	--	--	--	--	--	--
#1	28467	--	--	--	--	--	--
#2	28551	--	--	--	--	--	--
#3	28571	--	--	--	--	--	--

Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	19.263	-.0150	19.156	.1997	-.0001	.0101	.0243	-.0260
#2	19.283	-.0150	19.224	.1994	-.0001	.0104	.0243	-.0260
#3	19.263	-.0150	19.156	.1997	-.0001	.0101	.0243	-.0260

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0104	.1008	.0205	.0514	-.0029	.0095	-.0052
SDev	.0001	.0009	.0004	.0002	.0022	.0197	.0047
%RSD	1.178	.8031	1.816	.3847	76.76	207.8	91.16
#1	.0104	.1008	.0205	.0514	-.0029	.0095	-.0052
#2	.0103	.1019	.0205	.0513	-.0098	.0182	.0095
#3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2203/1	2203/2	Pb2203	Sb2068	
			ppb	ppb	

Units	ppm						
SRSD	75012	55069	19999				
#1	.0313	.0277	.0845	2.3621	8.2582	6.2952	126.18
#2	.0309	.0213	.0828	4.9371	7.0163	6.3243	125.67
#3	.0312	.0139	.0844	5.3506	5.4351	5.4073	127.61

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	9.4345	126.15	124.73	7.0080	9.9022	.17295	.0001
%RSD	12.417	.91160	1.6491	42.710	16.101	177.6	142.2
#1	8.1821	126.99	125.77	5.2699	9.6356	.7577	.0002
#2	10.503	127.49	124.75	10.151	10.678	-1.366	.0001
#3	9.6184	125.29	128.77	13.434	7.7132	-1.568	-.0000

Elems	Rb2908	Wpm	5pm	Sb2881	Mo2020
Avge	21.028	.1014	.0428	2.405	.0202
SDev	.872	.0003	.0001	.025	.0002
%RSD	4.1493	.2658	.2906	1.023	.8297
#1	21.392	.1016	.0429	2.424	.0204
#2	21.655	.1015	.0427	2.377	.0200
#3	20.030	.1011	.0427	2.414	.0202

Mode	Std	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem		Y	--	--	--	--	--	--
Wavlen		371.030	--	--	--	--	--	--
Avge		28100	--	--	--	--	--	--
SRSD		16006528	==	==	==	==	==	==
#2		28098						

Name: ICSAF
Operator:
Conc. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.1146	533.6	2.9379	-.0002	.0077	.0005	511.9
SDev	.1540	.7	3.5411	.0006	.0000	.0000	.6
%RSD	13.818	.1261	120.53	272.8	.5356	5.602	.1163
#1	.98576	533.6	.39381	-.0001	.0076	.0005	512.5
#2	1.2362	533.6	4.9378	-.0003	.0077	.0004	511.8

Elem	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0015	-.0017	.0082	211.4	.0018	516.8
SDev	.0002	.0001	.0003	.0001	.2	.0075	.5
%RSD	18.50	3.744	15.37	.9416	.0859	418.3	.1014
#1	.0013	.0015	-.0016	.0082	211.6	-.0024	517.3
#2	.0009	.0015	-.0015	.0083	211.2	.0104	516.3
#3	.0011	.0016	-.0020	.0082	211.3	-.0026	516.9

Avge	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	.0004	.0022	.0001	[illegible]	[illegible]	[illegible]	[illegible]
%RSD	6.477	4.393	4.625	19.915	15.094	[illegible]	[illegible]
#1	[illegible]	.0514	.0025	-11.636	5.1613	-.43193	-2.8088
#2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Elem	Se1960	2068/1	2068/2	I960/1	I960/2	Sn	Tl 3076
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Blank	1.0585	1.1412	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	3.5426	1.4518	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	3.4973	1.5295	-4.9751	-2.9145	5.6979	-51.86	-.0147
#2	2.6913	2.3596	-1.1451	3.3558	2.3590	-52.05	-.0149
#3	-3.0130	-.46370	-7.7264	-4.5856	-2.2283	-55.32	-.0150

Elem	Tl1908	V 0022	Zn 32	[illegible]	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Blank	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	3.0151	.0005	.0002	.0376	.0017
%RSD	133.45	25.10	1.244	31.86	443.9
#1	3.2054	-.0016	.0131	.0835	-.0002
#2	4.6881	-.0026	.0133	.1121	-.0021
#3	-1.1153	-.0024	.0130	.1579	.0012

Comment:	[illegible]						
Elem	I CP1960	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	25489	--	--	--	--	--	--
SDev	34.83091	--	--	--	--	--	--
%RSD	.1366486	--	--	--	--	--	--
#1	[illegible]	==	==	==	==	==	==
#3	25458						

Comment: PROFILE297 Sample Name: ICSABF Operator:
Comment: CONFg. Corr. Factor: 1 As1890

Elem	[illegible]	[illegible]	[illegible]	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1113.5	532.9	1030.3	1.076	.5665	.5251	506.6
SDev	1.7	1.3	4.5	.003	.0008	.0016	2.0
%RSD	.1541	.2420	.436822	.2572	.1326	.3027	.3895
#2	1115.3	533.3	1026.3	1.073	.5659	.5251	504.1

Fe K Mg 0153
ppm ppm

Elem							
Wave	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	.9539	.4605	.4975	.5831	210.3	.0157	514.4
#2	.9499	.4610	.4980	.5848	210.1	.0080	515.2
#3	.9430	.4594	.4948	.5835	208.6	.0276	510.5
Elem	Mn	Na	Ni	6803/1	6803/2	Pb8203	Pb6058
Wave	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Avgs	.9459	.4550	.4951	872.04	899.30	890.23	-6.5500
SDev	.0013	.0007	.0040	.62	5.09	3.20	3.7449
%RSD	.2739	1.260	.4299	.07158	.56536	.35938	57.088
#1	.4869	.0556	.9282	872.12	900.88	891.30	-5.0489
#2	.4863	.0553	.9265	871.38	903.41	892.75	-3.8066
#3	.4844	.0543	.9205	872.62	893.62	886.63	-10.824
Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Wave	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Avgs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	1.85	4.9613	3.1528	3.7	3.97	.98	.0002
%RSD	.18566	123.19	40.292	.36681	.40070	1.960	1.588
#1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Wave	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Avgs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
%RSD	.37569	.1785	.3548	3.138	.4879		
#1	911.64	.5030	1.055	1.133	1.021		
#2	905.01	.5040	1.057	1.078	1.026		
#3	906.94	.5022	1.050	1.070	1.016		

[illegible]	[illegible]	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
#1	25259	--	--	--	--	--	--
#2	25022	--	--	--	--	--	--
#3	25051	--	--	--	--	--	--

[illegible] Sat 02-15-97 05:41:37 PM page 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Wave	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Avgs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#1	1023.3	50.69	504.15	2.608	2.642	2.561	46.34
#2	1021.6	50.50	505.73	2.614	2.635	2.563	46.37
#3	1024.3	50.66	504.73	2.625	2.637	2.566	46.45
				LC Pass	LC Pass	LC Pass	LC Pass

6654

High	1100.0	55.00	550.00	2.750	2.250	2.250	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00
Elems	Cdm	Cpm	Crm	Cu	Fe	K	Mg
Avge	2.488	2.412	2.512	2.589	48.93	86.56	47.82
Dev	.0004	.004	.001	.003	.05	.13	.04
%RSD	.1497	.1801	.0435	.1241	.1072	.1547	.0794
#1	2.486	2.408	2.511	2.590	48.94	86.67	47.82
#2	2.485	2.411	2.511	2.585	48.87	86.41	47.78
#3	2.492	2.416	2.513	2.591	48.97	86.60	47.86
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	2.467	85.21	2.444	462.65	459.64	460.64	1013.2
Dev	.0002	.2329	.0002	1.257	2.51	1.15	1.2
%RSD	.0092	.2733	.0092	.2717	.5463	.2495	.1264
#1	2.466	85.43	2.440	460.29	457.11	458.17	1012.9
#2	2.465	85.02	2.440	462.28	462.14	462.19	1014.6
#3	2.469	85.19	2.451	465.38	459.66	461.57	1012.2
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.750	88.00	2.750			550.00	1100.0
Low	2.250	72.00	2.250			450.00	900.00

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.8091	.37172	.12593	1.9249	2.1482	.1876	.0895
#1	488.77	1002.3	1018.2	499.95	483.18	2976.	2.593
#2	504.75	1002.7	1020.6	506.03	504.11	2984.	2.590
#3	503.97	996.04	1020.2	519.09	496.41	2987.	2.592
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	550.00						

Low	450.00				
Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	492.89	2.503	2.586	51.35	2.542
#1	494.96	2.504	2.582	51.41	2.541
#2	492.90	2.503	2.585	51.25	2.541
#3	493.32	2.508	2.590	51.40	2.544
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
Low	450.00	2.250	2.250		

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28128.7	--	--	--	--	--	--
#1	28114	--	--	--	--	--	--
#2	28189	--	--	--	--	--	--
#3	28257	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCVL4 Operator:

Run Time: 02/15/97 17:41:46

Comment: CCC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.16771	.0812	-.33872	.0001	.0014	.0013	.0608
SDev	1.53212	.06248	3.51434	.00005	.00002	.00002	.02553
%RSD	913.49	76.96	-1037.6	70.711	1.4142	1.5396	42.003
#1	1.0605	.1027	1.5442	.0006	.0016	.0015	.0771
#2	.03124	.0800	-.27730	.0001	.0014	.0014	.0605
#3	-.31143	.0608	-2.2830	-.0004	.0012	.0012	.0448
Errors High Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0010	.0009	.0009	2.585	.0759	.0943
SDev	.0002	.0002	.0008	.0001	.0135	.0178	.0237
%RSD	17.79	23.58	41.88	13.71	.5226	23.43	25.13
#1	.0018	.0010	.0018	.0009	2.614	.0827	.0944
#2	.0013	.0007	.0008	.0009	2.598	.0549	.0768
#3	.0007	.0012	.0009	.0008	2.544	.0901	.1118
Errors High Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass 2.750 2.250	NOCHECK	NOCHECK

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0011	2.557	.0014	-1.1502	.55113	-.01499	1.3782
SDev	.0002	.009	.0002	.9193	.60902	.55885	.8485
%RSD	16.01	0.3555	13.15	79.926	110.52	3727.2	61.567
#1	.0013	2.5655	.0015	-.09354	1.2828	.37332	2.3515
#2	.0010	2.567	.0011	-1.5515	1.1296	.23720	.98895
#3	.0009	2.551	.0015	-1.8006	-.08438	-.65550	.79413
Errors High Low	NOCHECK	LC Pass 2.750 2.250	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Se1963	Se2551	Se2562	Sr4607	Sr4077	Tl	V
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.2783	3.2551	1.2722	2.6511	2.1908	.0057	.0014
SDev	1.6783	1.4659	.98095	2.7552	1.5713	.4855	.0002
%RSD	263.20	50.795	156.95	321.72	297.60	60.26	12.35
#1	.56219	3.8126	1.6216	2.5207	-.41601	1.101	.0016
#2	-1.0016	3.6492	-.33958	-2.3239	-.34190	.2453	.0013
#3	2.3523	1.1959	.59309	2.3724	2.3419	1.071	.0013
Errors High Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Zn	Y	Sn	Si2881	Mo2020
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0275	.0014	.0275	-.1183	.0031
SDev	.0003	.0002	.0003	.0353	.0014
%RSD	1.197	16.68	1.197	29.83	44.78
#1	.0276	.0017	.0276	-.0805	.0046
#3	.0273	.0014	.0273	-.1365	.0019
Errors High Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Elem	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Wavlen	371.030	--	--	--	--	--	--
Avge	28729	--	--	--	--	--	--
SDev	160.1715	--	--	--	--	--	--
%RSD	.5575331	--	--	--	--	--	--
#1	28863	--	--	--	--	--	--
#3	28752	--	--	--	--	--	--

M 0156

Method: PROFILE297 Sample Name: CCB4 Operator:
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avge	.7748	.0048	1.4220	.0005	.0005	.0137
SDev	.39456	.0115	1.08473	.0004	.0001	.0068
%RSD	181.42	236.3	563.10	75.32	25.39	49.83
#1	.53435	.0165	1.0389	.0009	.0006	.0065
#2	.342555	-.00454	-1.60066	.0001	.0005	.0147
#3	1.44775	.0048	.0004	.0005	.0004	.0200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0006	.0006	-.0001	.0047	.0314	.0112
SDev	.0001	.0002	.0003	.0003	.0050	.0063	.0077
%RSD	22.53	31.75	38.57	473.0	105.7	19.89	69.26
#1	.0006	.0006	.0005	.0001	.0041	.0349	.0107
#2	.0007	.0008	.0009	.0001	.0041	.0349	.0107
#3	.0003	.0004	.0005	-.0004	.0001	.0243	.0037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb206S
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0006	.0038	.0011	.25586	-.81628	-.45888	.07809
SDev	.0002	.0043	.0001	.31469	.60863	.33272	1.1194
%RSD	27.66	114.0	8.506	122.99	74.562	72.507	1433.4
#1	.0007	.0080	.0011	.19965	-.28568	-.12371	-1.0924
#2	.0006	.0041	.0012	-.02694	-.68248	-.46383	.18857
#3	.0004	.0027	.0010	.54099	-1.48067	-.78393	1.1981
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.0150	5.000	.0400			3.0000	60.000
Low	-.0150	-5.000	-.0400			-3.0000	-60.000

Elem	Sn	2068/1	2068/2	1060/1	1060/2	Sr	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.8420	1.34415	2.2515	1.4298	2.91891	.0056	.0004
SDev	1.8420	1.34415	2.2515	1.4298	2.91891	.0056	.0002
%RSD	181.95	199.15	446.97	121.05	3844.8	119.4	57.29
#1	3.68387	2.03938	4.03791	2.28733	5.23941	.0129	.0006
#2	1.00057	.19093	.23239	.42733	.23941	.0129	.0006
#3	.81787	1.79693	2.48791	1.57733	5.23941	.0129	.0006
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	5.0000						
Low	-5.0000						

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	1.6863	.0004	.0006	.0159	.0009
SDev	1.8362	.0003	.0001	.0449	.0003
%RSD	108.89	85.55	17.34	282.6	31.71
#1	3.2988	.0007	.0007	-.0190	.0012
#2	.41733	.0004	.0007	.0190	.0009
#3	-.37733	.0001	.0005	-.0100	.0006
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	5.0000	.0500	.0200		
Low	-5.0000	-.0500	-.0200		

	4	5	6
	NOTUSED	NOTUSED	NOTUSED

M 2157

Item	Y	--	--				
Mean	28162394	==	==	==	==	==	
%RSD	.7235112	--	--	--	--	--	--
#1	28169	--	--	--	--	--	--
#2	28424	--	--	--	--	--	--
#3	28538	--	--	--	--	--	--

H2M LABS, INC.

CLIENT Dec 0122 (for Na,K) ~~* select cd nums 2/27/97~~ DATE 2/18/97

TASK: CCP1 IJA61 RESULT FILE: DC122Na.ASC ANALYST Karen Pare

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702045D	B225AXD Na,K
2	ICB		27	9702045S	B225AXS Na,K
3	CRI1		28	9702045L	B225AXL Na,K
4	ICSA1		29	9702040	B160223 Na,K
5	ICSAB1		30	CCV3	
6	CCV1		31	CCB3	
7	CCB1		32	9702040	Dilution 1:10 B160223 ~~Cd~~ 2/27/97
8	PBW	Na,K DCC122	33	9700955	~~2/27/97~~
9	PBS	Na,K	34	CRIF	
10	LCSW	Na,K	35	ICSAF	
11	LCSS	Na,K	36	ICSABF	
12	9702033	B160219 Na,K	37	CCV4	
13	9702033D	B160219D Na,K	38	CCB4	
14	9702033S	B160219S Na,K	39		
15	9702033L	B160219L Na,K	40		
16	9702041	B223AX Na,K	41		
17	9702042	B160224 Na,K ~~Cd 2/27/97~~	42		
18	CCV2		43		
19	CCB2		44		
20	9702043	B224AX Na,K	45		
21	9702044	B160225 Na,K	46		
22	9702044D	B160225D Na,K	47		
23	9702044S	B160225S Na,K	48		
24	9702044L	B160225L Na,K	49		
25	9702045	B225AX Na,K	50		

M 0153

Standardization Rpt. DC122Na.ASC Tue 02-18-97 02:11:40 PM page 1

IJA61 Karen Hanes

Method: CLP1 Standard: BLANK

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Avge	.0052	.0261	-.0044	-.0003	.0011	.0005	-.0010
SDev	.0001	.0001	.0022	.0001	.0001	.0005	.0003
%RSD	1.923	.4430	48.61	17.32	5.094	105.8	24.35
#1	.0053	.0260	-.0052	-.0003	.0011	.0007	-.0008
#2	.0051	.0260	-.0020	-.0004	.0011	.0009	-.0010
#3	.0052	.0262	-.0061	-.0003	.0012	-.0001	-.0013

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Avge	.0011	.0015	.0023	.0025	.0043	.0024	.0009
SDev	.0001	.0001	.0001	.0003	.0004	.0019	.0001
%RSD	9.091	6.667	2.474	12.69	8.737	78.63	6.662
#1	.0012	.0015	.0023	.0029	.0045	.0041	.0009
#2	.0011	.0014	.0024	.0024	.0046	.0026	.0009
#3	.0010	.0016	.0023	.0023	.0039	.0004	.0008

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Avge	.0615	.0034	-.0019	-.0064	.0028	.0014	-.0014
SDev	.0022	.0003	.0036	.0013	.0012	.0021	.0005
%RSD	3.487	9.548	183.6	20.29	43.30	148.6	35.71
#1	.0640	.0036	.0020	-.0054	.0039	.0003	-.0014
#2	.0601	.0035	-.0049	-.0060	.0030	.0001	-.0009
#3	.0605	.0030	-.0029	-.0079	.0015	.0038	-.0019

Elem	V	Zn
Avge	-.0010	.0000
SDev	.0006	.0002
%RSD	53.30	.0000
#1	-.0004	.0000
#2	-.0013	.0002
#3	-.0014	-.0002

Method: CLP1 Standard: AGSBH

Elem	Ag	Sb
Avge	.4889	.5445
SDev	.0024	.0044
%RSD	.4824	.8028
#1	.4867	.5395
#2	.4914	.5464
#3	.4887	.5476

Method: CLP1 Standard: MULTIH

Elem	Al	As	Ba	Be	Ca	Cd	Co
Avge	1.609	1.494	4.663	1.462	2.716	3.815	2.664
SDev	.010	.010	.028	.008	.010	.018	.010
%RSD	.5945	.6631	.5986	.5510	.3784	.4790	.3802
#1	1.620	1.503	4.695	1.471	2.728	3.836	2.676
#2	1.601	1.494	4.647	1.457	2.712	3.805	2.657
#3	1.607	1.484	4.647	1.458	2.709	3.803	2.661

Elem	Cr	Cu	Fe	Mg	Mn	Ni	P
Avge	4.146	2.525	2.940	1.860	3.117	1.872	.9832
SDev	.020	.011	.014	.009	.014	.007	.0055
%RSD	.4746	.4284	.4608	.4860	.4339	.3987	.5637
#1	4.168	2.538	2.955	1.871	3.133	1.881	.9864
#2	4.141	2.520	2.932	1.856	3.111	1.869	.9768
#3	4.129	2.518	2.931	1.855	3.108	1.868	.9864

Elem	Pb	Se	Tl	V	Zn
Avge	2.268	1.485	1.760	2.408	2.975
SDev	.010	.010	.008	.009	.010
%RSD	.4617	.7010	.4527	.3909	.3520
#1	2.279	1.492	1.770	2.418	2.987
#2	2.266	1.473	1.756	2.404	2.968
#3	2.258	1.489	1.756	2.401	2.971

Method: CLP1 Standard: NAKH

Elem	K	Na
Avge	.3174	4.618
SDev	.0026	.038
%RSD	.8095	.8321
#1	.3147	4.575
#2	.3198	4.649
#3	.3178	4.631

Method: CLP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	AGSBH	BLANK	.241867	.021499	02/18/97 02:22:36
Al	308.215	MULTIH	BLANK	.158340	.164625	02/18/97 02:22:36
As	193.696	MULTIH	BLANK	.149810	.029593	02/18/97 02:22:36
Ba	493.409	MULTIH	BLANK	.466360	.000715	02/18/97 02:22:36
Be	313.042	MULTIH	BLANK	.146097	.007757	02/18/97 02:22:36
Ca	317.933	MULTIH	BLANK	.271593	.001841	02/18/97 02:22:36
Cd	226.504	MULTIH	BLANK	.381587	.002708	02/18/97 02:22:36
Co	228.616	MULTIH	BLANK	.266340	.004130	02/18/97 02:22:36
Cr	267.716	MULTIH	BLANK	.414453	.003619	02/18/97 02:22:36
Cu	324.754	MULTIH	BLANK	.252300	.009248	02/18/97 02:22:36
Fe	259.940	MULTIH	BLANK	.293723	.008625	02/18/97 02:22:36
K	766.491	NAKH	BLANK	.015655	.276802	02/18/97 02:22:36
Mg	279.078	MULTIH	BLANK	.185813	.012737	02/18/97 02:22:36
Mn	257.610	MULTIH	BLANK	.311630	.002781	02/18/97 02:22:36
Na	588.995	NAKH	BLANK	.227848	.270063	02/18/97 02:22:36
Ni	231.604	MULTIH	BLANK	.186903	.018013	02/18/97 02:22:36
P	214.914	MULTIH	BLANK	.098513	.019625	02/18/97 02:22:36
Pb	220.353	MULTIH	BLANK	.227423	.028288	02/18/97 02:22:36
Sb	206.833	AGSBH	BLANK	.270850	.010338	02/18/97 02:22:36
Se	196.026	MULTIH	BLANK	.148320	.009439	02/18/97 02:22:36
Tl	190.864	MULTIH	BLANK	.176180	.007946	02/18/97 02:22:36
V	292.402	MULTIH	BLANK	.240867	.004290	02/18/97 02:22:36
Zn	213.856	MULTIH	BLANK	.297547	.000000	02/18/97 02:22:36

Method: CLP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	BLANK	.000000	.000000	-.000000
		AGSBH	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.696	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.00000	.000001

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.933	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.504	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	267.716	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.754	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.940	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.491	BLANK	.000000	.000000	-.000000
		NAKH	20.0000	20.0000	.000000
Mg	279.078	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Mn	257.610	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000
Na	588.995	BLANK	.000000	-.000000	.000000
		NAKH	20.0000	20.0000	.000000
Ni	231.604	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
P	214.914	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Pb	220.353	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Sb	206.833	BLANK	.000000	.000000	-.000000
		AGSBH	2.00000	2.00000	.000000
Se	196.026	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Tl	190.864	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000
V	292.402	BLANK	.000000	-.000000	.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	BLANK	.000000	.000000	.000000
		MULTIH	10.0000	10.0000	.000000

Method: CLP1 Sample Name: ICV Operator:
Run Time: 02/18/97 14:30:27
Comment: ICV
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9993	4.943	5.043	2.525	2.505	5.068	5.054
SDev	.0041	.026	.010	.012	.010	.016	.018
%RSD	.4068	.5230	.1996	.4654	.4029	.3062	.3593
#1	.9969	4.938	5.049	2.516	2.498	5.067	5.037
#2	.9969	4.920	5.031	2.521	2.500	5.054	5.051
#3	1.004	4.971	5.049	2.539	2.517	5.084	5.073
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	5.000	5.000	2.500	2.500	5.000	5.000
Range	.1000	.5000	.5000	.2500	.2500	.5000	.5000

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.533	2.529	2.528	5.088	10.16	5.123	2.517
SDev	.015	.010	.012	.022	.08	.016	.009
%RSD	.5981	.3842	.4797	.4237	.7622	.3186	.3475
#1	2.520	2.524	2.521	5.078	10.17	5.132	2.510
#2	2.528	2.522	2.522	5.074	10.08	5.104	2.514
#3	2.549	2.540	2.542	5.113	10.23	5.133	2.527
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	2.500	5.000	10.00	5.000	2.500
Range	.2500	.2500	.2500	.5000	1.000	.5000	.2500

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.14	5.059	5.004	5.206	.9840	5.171	Q.0534
SDev	.05	.012	.023	.020	.0032	.021	.0229
%RSD	.5254	.2383	.4515	.3887	.3279	.4042	42.80
#1	10.09	5.053	4.987	5.208	.9852	5.152	Q.0783
#2	10.13	5.052	5.029	5.185	.9804	5.168	Q.0487
#3	10.19	5.073	4.995	5.225	.9865	5.194	Q.0333
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.00	5.000		5.000	1.000	5.000	5.000
Range	1.000	.5000		.5000	.1000	.5000	.5000

Elem	V	Zn
Units	ppm	ppm
Avge	2.507	5.052
SDev	.008	.015
%RSD	.3004	.2928
#1	2.504	5.044
#2	2.501	5.042
#3	2.515	5.069
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: ICB Operator:
Run Time: 02/18/97 14:35:07
Comment: ICB
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	.0038	.0200	.0009	.0004	.0034	.0015
SDev	.0002	.0126	.0123	.0003	.0007	.0032	.0011
%RSD	17.36	336.8	61.56	28.87	152.8	93.61	73.47
#1	-.0017	-.0106	.0170	.0011	.0011	.0026	.0011
#2	-.0012	.0084	.0335	.0007	.0004	.0070	.0027
#3	-.0012	.0134	.0095	.0007	-.0002	.0007	.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0016	.0005	.0010	.0490	.0097	.0012
SDev	.0015	.0016	.0008	.0012	.0293	.0019	.0004
%RSD	93.25	100.2	156.0	117.1	59.77	19.51	31.45
#1	-.0030	.0002	.0003	.0023	.0234	.0077	.0007
#2	-.0019	.0034	.0015	.0009	.0809	.0099	.0014
#3	.0000	.0012	-.0001	-.0001	.0426	.0115	.0014
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0079	.0009	.0162	.0069	.0029	.0445	.0027
SDev	.0037	.0016	.0428	.0087	.0057	.0345	.0073
%RSD	46.26	183.3	263.5	126.5	192.8	77.67	273.8
#1	.0038	.0012	-.0301	.0028	-.0018	.0809	-.0057
#2	.0108	.0023	.0246	.0010	.0092	.0404	.0057
#3	.0091	-.0009	.0541	.0168	.0015	.0121	.0080
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0015	.0023
SDev	.0002	.0010
%RSD	15.75	42.75
#1	.0014	.0034
#2	.0014	.0023
#3	.0018	.0013
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CRII Operator:
Run Time: 02/18/97 14:39:50
Comment: CRII
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0200	-.0010	.0342	.0002	.0095	.0146	.0105
SDev	.0000	.0028	.0133	.0001	.0000	.0026	.0009
%RSD	.0055	283.3	38.98	57.74	.0513	17.71	8.792
#1	.0200	.0022	.0488	.0001	.0095	.0122	.0106
#2	.0200	-.0022	.0228	.0003	.0095	.0144	.0113
#3	.0200	-.0029	.0308	.0003	.0095	.0173	.0095

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0978	.0226	.0510	-.0019	.0511	.0153	.0309
SDev	.0026	.0039	.0007	.0009	.0098	.0071	.0003
%RSD	2.695	17.34	1.345	44.41	19.09	46.08	1.038
#1	.0976	.0257	.0506	-.0028	.0490	.0089	.0309
#2	.1006	.0182	.0518	-.0018	.0617	.0142	.0312
#3	.0953	.0240	.0506	-.0011	.0426	.0229	.0306

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0338	.0817	.0552	.0216	.1350	.0294	.0311
SDev	.0042	.0017	.0532	.0071	.0037	.0065	.0330
%RSD	12.34	2.106	96.41	32.86	2.758	21.96	106.2
#1	.0336	.0810	.0982	.0134	.1390	.0327	.0196
#2	.0380	.0836	.0718	.0258	.1317	.0334	.0684
#3	.0297	.0804	-.0043	.0257	.1342	.0219	.0054

Elem	V	Zn
Units	ppm	ppm
Avge	.1001	.0399
SDev	.0010	.0007
%RSD	.9586	1.685
#1	.0989	.0393
#2	.1006	.0399
#3	.1006	.0406

Method: CLP1 Sample Name: ICSAI Operator:
Run Time: 02/18/97 14:44:42
Comment: ICSAI
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	487.7	-.2526	.0071	-.0009	477.2	-.0011
SDev	.0006	4.1	.0755	.0003	.0007	3.5	.0006
%RSD	32.02	.8494	29.91	3.499	74.97	.7407	57.25
#1	-.0014	487.4	-.1661	.0069	-.0009	475.8	-.0004
#2	-.0019	483.7	-.3057	.0074	-.0016	474.5	-.0012
#3	-.0027	492.0	-.2860	.0069	-.0002	481.2	-.0016
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0				500.0	
Range		20.00				20.00	

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0040	.0004	182.0	.0106	509.1	.0119
SDev	.0021	.0023	.0002	1.5	.0419	4.5	.0009
%RSD	1645.	56.48	57.92	.8133	393.4	.8860	7.763
#1	-.0022	-.0065	.0007	181.5	.0043	508.5	.0128
#2	.0019	-.0022	.0003	180.9	.0554	505.0	.0109
#3	.0008	-.0032	.0003	183.7	-.0277	513.9	.0119
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0		500.0	
Range				20.00		20.00	

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0215	-.0096	.0936	-.0489	.0241	.0182	-.2193
SDev	.0047	.0025	.0132	.0079	.0187	.0461	.0290
%RSD	21.82	26.25	14.09	16.14	77.57	253.0	13.21
#1	-.0164	-.0105	.1060	-.0564	.0394	.0708	-.2089
#2	-.0225	-.0068	.0798	-.0495	.0033	-.0008	-.1970
#3	-.0256	-.0116	.0950	-.0407	.0296	-.0154	-.2520
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	V	Zn
Units	ppm	ppm
Avge	-.0005	.0173
SDev	.0020	.0006
%RSD	406.3	3.543
#1	.0017	.0178
#2	-.0020	.0175
#3	-.0012	.0166
Errors	NOCHECK	NOCHECK

Method: CLP1 Sample Name: ICSABI Operator:
Run Time: 02/18/97 14:50:31
Comment: ICSABI
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9423	490.5	.7015	.4911	.4641	481.1	.8849
SDev	.0017	1.0	.0313	.0009	.0016	1.0	.0005
%RSD	.1776	.2118	4.457	.1903	.3405	.2024	.0516
#1	.9413	490.5	.7376	.4918	.4650	481.5	.8852
#2	.9413	489.4	.6837	.4900	.4622	480.0	.8843
#3	.9442	491.5	.6833	.4915	.4650	481.8	.8851
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	500.0		.5000	.5000	500.0	1.000
Range	20.00	20.00		20.00	20.00	20.00	20.00

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4551	.4551	.4896	184.0	-.0064	514.2	.4695
SDev	.0011	.0049	.0016	.5	.0479	1.5	.0025
%RSD	.2379	1.073	.3238	.2624	750.6	.2893	.5289
#1	.4539	.4497	.4896	184.1	-.0532	514.8	.4710
#2	.4557	.4566	.4880	183.4	-.0085	512.5	.4666
#3	.4557	.4591	.4912	184.3	.0426	515.3	.4708
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000	.5000	.5000	200.0		500.0	.5000
Range	20.00	20.00	20.00	20.00		20.00	20.00

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0256	.8944	.0338	.9021	.0091	.9568	.7112
SDev	.0049	.0024	.0790	.0158	.0046	.0502	.0241
%RSD	19.32	.2697	233.7	1.751	50.71	5.245	3.389
#1	-.0313	.8942	.1196	.9002	.0123	.9793	.7171
#2	-.0225	.8921	.0177	.8874	.0038	.8993	.7318
#3	-.0230	.8969	-.0359	.9188	.0111	.9918	.6847
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		1.000		1.000		1.000	
Range		20.00		20.00		20.00	

Elem	V	Zn
Units	ppm	ppm
Avge	.4523	.9214
SDev	.0002	.0017
%RSD	.0515	.1875
#1	.4521	.9221
#2	.4521	.9194
#3	.4525	.9227
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CCV1 Operator:
Run Time: 02/18/97 14:56:21
Comment: CCV1
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9993	4.963	5.105	2.533	2.498	5.088	5.065
SDev	.0019	.057	.016	.015	.014	.042	.025
%RSD	.1928	1.152	.3202	.6101	.5531	.8274	.4896
#1	1.001	5.026	5.123	2.551	2.514	5.135	5.094
#2	.9982	4.951	5.091	2.527	2.492	5.075	5.053
#3	.9981	4.913	5.102	2.522	2.489	5.054	5.049
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	5.000	5.000	2.500	2.500	5.000	5.000
Range	.1000	.5000	.5000	.2500	.2500	.5000	.5000

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.537	2.549	2.545	5.121	10.21	5.178	2.521
SDev	.015	.011	.010	.038	.03	.046	.012
%RSD	.6080	.4146	.4031	.7389	.2605	.8856	.4637
#1	2.551	2.559	2.556	5.164	10.19	5.229	2.535
#2	2.538	2.549	2.541	5.106	10.24	5.164	2.515
#3	2.521	2.538	2.537	5.092	10.20	5.140	2.514
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	2.500	5.000	10.00	5.000	2.500
Range	.2500	.2500	.2500	.5000	1.000	.5000	.2500

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.14	5.068	4.985	5.222	.9911	5.218	Q.0549
SDev	.04	.026	.034	.020	.0020	.056	.0060
%RSD	.4189	.5191	.6864	.3815	.2041	1.069	10.86
#1	10.19	5.098	5.000	5.229	.9934	5.269	Q.0481
#2	10.11	5.051	5.008	5.238	.9905	5.158	Q.0589
#3	10.13	5.054	4.945	5.200	.9895	5.226	Q.0578
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.00	5.000		5.000	1.000	5.000	5.000
Range	1.000	.5000		.5000	.1000	.5000	.5000

Elem	V	Zn
Units	ppm	ppm
Avge	2.507	5.056
SDev	.016	.010
%RSD	.6383	.1907
#1	2.525	5.067
#2	2.499	5.052
#3	2.496	5.049
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CCB1 Operator:
Run Time: 02/18/97 15:01:06
Comment: CCB1
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0033	.0227	.0009	.0007	.0055	.0019
SDev	.0017	.0086	.0210	.0006	.0008	.0026	.0007
%RSD	1220.	255.6	92.69	61.06	115.8	46.19	36.10
#1	.0017	.0116	.0442	.0014	.0011	.0070	.0024
#2	-.0004	-.0055	.0216	.0011	.0011	.0070	.0022
#3	-.0017	.0040	.0022	.0003	-.0002	.0026	.0011
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0014	.0008	.0077	.0234	.0104	.0011
SDev	.0036	.0029	.0015	.0029	.0278	.0129	.0003
%RSD	360.0	210.9	189.1	37.69	118.9	124.1	29.98
#1	.0023	.0034	.0018	.0108	.0426	.0233	.0014
#2	-.0004	.0026	.0015	.0074	.0362	.0104	.0008
#3	-.0049	-.0019	-.0009	.0050	-.0085	-.0025	.0011
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0012	.0145	.0123	.0032	.0445	.0008
SDev	.0036	.0032	.0169	.0028	.0009	.0169	.0307
%RSD	127.6	260.7	116.4	22.87	28.57	37.91	4021.
#1	.0060	.0034	.0297	.0107	.0033	.0614	.0329
#2	.0034	-.0025	.0175	.0155	.0040	.0276	-.0023
#3	-.0010	.0029	-.0037	.0106	.0022	.0445	-.0284
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0010	.0022
SDev	.0008	.0007
%RSD	85.77	30.89
#1	.0010	.0030
#2	.0018	.0017
#3	.0001	.0020
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: PBW Operator:
Run Time: 02/18/97 15:05:56
Comment: PBW
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.0015	.0098	.0003	-.0002	.0052	.0003
SDev	.0011	.0004	.0040	.0002	.0000	.0029	.0004
%RSD	87.99	24.94	41.08	75.00	2.340	57.14	152.5
#1	.0025	-.0017	.0102	.0005	-.0002	.0081	.0006
#2	.0008	-.0018	.0136	.0001	-.0002	.0052	.0003
#3	.0004	-.0011	.0056	.0003	-.0002	.0022	-.0002
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	.0003	.0005	-.0019	.0639	.0102	.0001
SDev	.0032	.0021	.0014	.0002	.0098	.0037	.0003
%RSD	127.6	654.2	262.9	10.19	15.28	35.82	301.8
#1	.0008	.0026	.0018	-.0022	.0617	.0115	.0001
#2	-.0056	-.0005	.0007	-.0018	.0554	.0061	.0004
#3	-.0026	-.0012	-.0009	-.0018	.0745	.0131	-.0002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0837	.0002	.0301	.0098	.0031	.0112	.0099
SDev	.0012	.0005	.0288	.0031	.0062	.0157	.0075
%RSD	1.388	300.0	95.66	31.88	201.2	140.1	76.22
#1	.0832	-.0004	.0419	.0129	.0070	.0182	.0017
#2	.0850	.0007	-.0027	.0067	-.0041	-.0068	.0165
#3	.0828	.0002	.0511	.0098	.0063	.0222	.0114
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0022	.0029
SDev	.0011	.0008
%RSD	49.60	29.16
#1	.0018	.0030
	.0035	.0020
	.0014	.0037
	ss	QC Pass

M 0175

Method: CLP1 Sample Name: PBS Operator:
Run Time: 02/18/97 15:11:52
Comment: PBS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	-.0034	.0087	.0001	-.0002	.0736	.0008
SDev	.0006	.0007	.0131	.0002	.0007	.0029	.0006
%RSD	45.84	21.30	150.7	300.0	295.8	4.000	69.37
#1	-.0008	-.0042	.0163	-.0001	-.0002	.0736	.0006
#2	-.0021	-.0030	.0163	.0001	-.0009	.0707	.0014
#3	-.0012	-.0030	-.0064	.0003	.0004	.0766	.0003
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0018	.0004	-.0026	.0256	.0091	.0001
SDev	.0016	.0029	.0013	.0005	.0315	.0080	.0000
%RSD	621.4	162.7	321.3	19.92	123.3	87.35	.3294
#1	-.0015	.0005	-.0001	-.0032	.0106	.0072	.0001
#2	-.0008	-.0002	-.0005	-.0025	.0043	.0023	.0001
#3	.0015	.0051	.0018	-.0022	.0617	.0179	.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	.0020	.0095	.0066	.0006	.0108	.0242
SDev	.0017	.0008	.0451	.0084	.0033	.0023	.0277
%RSD	23.66	41.66	476.9	127.1	550.6	21.68	114.4
#1	.0082	.0012	.0085	.0072	.0044	.0094	.0500
#2	.0078	.0018	-.0352	-.0021	-.0011	.0134	.0278
#3	.0051	.0029	.0551	.0147	-.0015	.0094	-.0051
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0004	.0027
SDev	.0009	.0003
%RSD	205.6	12.34
#1	-.0003	.0023
#2	.0001	.0027
#3	.0014	.0030
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: LCSW Operator:
Run Time: 02/18/97 15:19:27
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9006	46.82	.4153	2.410	2.399	47.14	2.314
SDev	.0025	.12	.0189	.008	.005	.04	.004
%RSD	.2758	.2487	4.550	.3412	.2206	.0748	.1754
#1	.9030	46.89	.3941	2.418	2.405	47.18	2.316
#2	.8981	46.68	.4303	2.402	2.395	47.11	2.309
#3	.9006	46.88	.4215	2.412	2.397	47.13	2.316

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.347	2.370	2.380	46.75	78.01	48.78	2.348
SDev	.007	.007	.008	.10	.14	.15	.003
%RSD	.2817	.2925	.3255	.2214	.1738	.2991	.1268
#1	2.351	2.376	2.387	46.85	78.10	48.92	2.352
#2	2.340	2.363	2.372	46.64	77.85	48.63	2.346
#3	2.351	2.373	2.382	46.75	78.07	48.80	2.348

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	81.62	2.329	-.2208	.4850	.9571	.4623	.1562
SDev	.24	.002	.0473	.0084	.0054	.0173	.0260
%RSD	.2938	.0689	21.41	1.735	.5699	3.744	16.67
#1	81.83	2.331	-.2083	.4793	.9534	.4519	.1364
#2	81.36	2.329	-.1810	.4811	.9546	.4822	.1466
#3	81.66	2.328	-.2731	.4947	.9634	.4526	.1857

Elem	V	Zn
Units	ppm	ppm
Avge	2.325	2.335
SDev	.005	.005
%RSD	.2111	.2199
#1	2.331	2.339
#2	2.322	2.329
#3	2.322	2.338

Method: CLP1 Sample Name: LCSS Operator:
Run Time: 02/18/97 15:28:23
Comment: LCSS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3610	38.61	.3016	1.335	.4209	14.06	.3740
SDev	.0010	.07	.0268	.003	.0004	.02	.0010
%RSD	.2892	.1876	8.878	.2139	.0931	.1708	.2581
#1	.3620	38.68	.2841	1.338	.4211	14.09	.3744
#2	.3611	38.54	.2884	1.333	.4204	14.04	.3729
#3	.3599	38.63	.3325	1.334	.4211	14.05	.3746

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5197	.3802	.2971	77.95	12.00	9.934	1.230
SDev	.0018	.0014	.0008	.09	.04	.029	.002
%RSD	.3413	.3602	.2779	.1178	.3324	.2896	.1736
#1	.5204	.3791	.2973	77.99	11.96	9.964	1.230
#2	.5177	.3818	.2977	77.84	12.01	9.907	1.228
#3	.5211	.3798	.2962	78.01	12.03	9.929	1.232

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.252	.8140	4.260	.5884	.1469	.4586	.0391
SDev	.007	.0024	.061	.0021	.0046	.0214	.0139
%RSD	.3331	.3012	1.437	.3555	3.123	4.656	35.58
#1	2.259	.8134	4.192	.5860	.1498	.4401	.0528
#2	2.244	.8118	4.311	.5897	.1416	.4820	.0397
#3	2.253	.8166	4.276	.5896	.1494	.4536	.0249

Elem	V	Zn
Units	ppm	ppm
Avge	.7361	.5698
SDev	.0022	.0013
%RSD	.2983	.2338
#1	.7386	.5698
#2	.7353	.5685
#3	.7344	.5711

Method: CLP1 Sample Name: 9702033 Operator:
Run Time: 02/18/97 15:33:04
Comment: B60219
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	1.833	.0093	.0064	-.0003	.4677	.0003
SDev	.0007	.002	.0046	.0003	.0000	.0031	.0007
%RSD	16.44	.0872	49.00	5.092	3.185	.6555	244.3
#1	.0048	1.835	.0057	.0067	-.0003	.4702	.0010
#2	.0048	1.833	.0077	.0065	-.0003	.4687	-.0003
#3	.0035	1.831	.0145	.0061	-.0003	.4643	.0002

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0339	.0071	8.204	.1959	.2612	.0164
SDev	.0015	.0016	.0006	.024	.0507	.0085	.0000
%RSD	311.1	4.759	8.483	.2866	25.88	3.238	.0504
#1	.0019	.0349	.0070	8.211	.2151	.2650	.0165
#2	.0007	.0347	.0078	8.224	.2342	.2671	.0165
#3	-.0011	.0320	.0066	8.178	.1384	.2515	.0164

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1469	.0164	.1093	.0230	.0019	.0118	.0305
SDev	.0015	.0008	.0467	.0050	.0049	.0063	.0146
%RSD	1.035	4.981	42.70	21.73	254.5	52.93	47.81
#1	.1486	.0173	.1617	.0245	.0076	.0136	.0465
#2	.1460	.0162	.0724	.0174	-.0005	.0170	.0182
#3	.1460	.0157	.0938	.0271	-.0013	.0049	.0267

Elem	V	Zn
Units	ppm	ppm
Avge	.0096	.0179
SDev	.0017	.0008
%RSD	17.99	4.329
#1	.0102	.0188
#2	.0077	.0174
#3	.0110	.0174

Method: CLP1 Sample Name: 9702033D Operator:
Run Time: 02/18/97 15:37:40
Comment: B60219D
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0044	1.993	-.0036	.0060	-.0003	.2086	.0000
SDev	.0012	.017	.0232	.0001	.0000	.0040	.0007
%RSD	28.15	.8758	653.0	2.062	.8843	1.936	3301.
#1	.0044	2.013	-.0255	.0059	-.0003	.2055	-.0006
#2	.0032	1.981	.0208	.0061	-.0003	.2132	.0007
#3	.0056	1.986	-.0060	.0061	-.0003	.2073	-.0001

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0162	.0057	6.211	.2044	.1817	.0090
SDev	.0022	.0017	.0010	.043	.0133	.0064	.0003
%RSD	851.2	10.42	17.56	.6975	6.505	3.508	3.673
#1	-.0015	.0142	.0046	6.258	.1895	.1783	.0094
#2	-.0015	.0174	.0066	6.174	.2087	.1778	.0090
#3	.0022	.0169	.0058	6.201	.2151	.1891	.0087

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1346	.0030	.1057	.0145	-.0038	.0143	-.0117
SDev	.0020	.0014	.0364	.0088	.0059	.0141	.0064
%RSD	1.494	44.41	34.45	60.46	155.4	98.88	54.99
#1	.1363	.0018	.0867	.0046	-.0106	.0302	-.0170
#2	.1350	.0029	.1476	.0214	-.0014	.0093	-.0136
#3	.1324	.0045	.0826	.0175	.0005	.0033	-.0045

Elem	V	Zn
Units	ppm	ppm
Avge	.0093	.0165
SDev	.0005	.0007
%RSD	5.117	4.248
#1	.0096	.0163
#2	.0096	.0173
#3	.0088	.0159

Method: CLP1 Sample Name: 97020338 Operator:
Run Time: 02/18/97 15:43:25
Comment: B60219S
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0505	4.389	1.907	1.971	.0456	.2142	.0474
SDev	.0013	.021	.009	.011	.0004	.0004	.0013
%RSD	2.498	.4716	.4874	.5658	.8697	.1985	2.766
#1	.0508	4.392	1.899	1.971	.0452	.2147	.0472
#2	.0516	4.408	1.905	1.982	.0459	.2139	.0487
#3	.0492	4.367	1.917	1.960	.0459	.2139	.0461

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4876	.2112	.2497	7.243	.2044	.1854	.4959
SDev	.0016	.0044	.0020	.032	.0133	.0120	.0024
%RSD	.3202	2.077	.8146	.4457	6.505	6.443	.4909
#1	.4894	.2147	.2502	7.246	.1895	.1836	.4962
#2	.4871	.2125	.2514	7.273	.2087	.1982	.4981
#3	.4864	.2063	.2474	7.209	.2151	.1745	.4933

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1454	.4937	.0788	.5234	.4497	1.974	1.975
SDev	.0033	.0027	.0158	.0035	.0102	.018	.011
%RSD	2.265	.5455	20.09	.6689	2.274	.9064	.5364
#1	.1486	.4962	.0818	.5235	.4402	1.964	1.984
#2	.1456	.4940	.0929	.5269	.4605	1.995	1.976
#3	.1421	.4908	.0617	.5199	.4484	1.964	1.963

Elem	V	Zn
Units	ppm	ppm
Avge	.4890	.4887
SDev	.0004	.0025
%RSD	.0843	.5163
#1	.4894	.4862
#2	.4890	.4912
#3	.4886	.4889

Method: CLP1 Sample Name: 9702033L Operator:
Run Time: 02/18/97 15:48:07
Comment: B60219L
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.3639	.0252	.0021	-.0002	.1035	.0001
SDev	.0023	.0045	.0234	.0007	.0000	.0024	.0007
%RSD	1261.	1.245	92.67	33.25	3.316	2.334	1282.
#1	.0024	.3677	.0492	.0029	-.0003	.1057	.0001
#2	-.0017	.3652	.0025	.0016	-.0002	.1009	-.0006
#3	-.0013	.3589	.0239	.0018	-.0002	.1038	.0007

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	.0062	.0017	1.714	.0724	.0655	.0080
SDev	.0032	.0050	.0019	.011	.0488	.0124	.0002
%RSD	129.1	81.34	108.9	.6264	67.39	18.93	2.317
#1	.0004	.0120	.0038	1.714	.1256	.0782	.0078
#2	-.0060	.0035	.0003	1.703	.0298	.0648	.0081
#3	-.0019	.0030	.0011	1.724	.0617	.0535	.0081

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0481	.0064	.0324	.0030	-.0004	.0270	.0178
SDev	.0038	.0014	.0405	.0103	.0031	.0246	.0183
%RSD	7.897	20.97	125.2	339.4	726.4	90.97	102.8
#1	.0459	.0050	.0526	.0114	.0027	.0178	-.0023
#2	.0525	.0066	-.0143	-.0085	-.0035	.0548	.0335
#3	.0459	.0077	.0588	.0061	-.0005	.0084	.0221

Elem	V	Zn
Units	ppm	ppm
Avge	.0027	.0091
SDev	.0016	.0004
%RSD	59.03	4.214
#1	.0045	.0089
#2	.0020	.0089
#3	.0016	.0096

Method: CLP1 Sample Name: 9702041 Operator:
Run Time: 02/18/97 15:52:54
Comment: B223AX
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0030	.0222	.0259	-.0007	18.19	.0005
SDev	.0006	.0060	.0040	.0001	.0010	.03	.0003
%RSD	40.64	202.9	18.15	.4772	150.5	.1570	52.65
#1	-.0010	-.0032	.0262	.0260	.0004	18.21	.0008
#2	-.0022	-.0089	.0222	.0258	-.0016	18.16	.0002
#3	-.0014	.0032	.0181	.0260	-.0009	18.19	.0005

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	.0001	.0007	4.293	66.07	17.34	.3879
SDev	.0021	.0014	.0004	.006	.05	.05	.0002
%RSD	51.78	1702.	60.12	.1388	.0773	.2951	.0473
#1	.0064	-.0007	.0007	4.293	66.12	17.36	.3880
#2	.0030	.0017	.0011	4.287	66.02	17.29	.3880
#3	.0026	-.0007	.0003	4.299	66.07	17.38	.3876

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	33.98	.0250	.0146	.0168	.0042	.0048	.0256
SDev	.06	.0019	.0665	.0046	.0055	.0319	.0068
%RSD	.1804	7.525	454.9	27.46	131.7	670.7	26.44
#1	34.00	.0232	-.0175	.0134	.0096	.0160	.0311
#2	33.91	.0269	-.0297	.0151	.0044	.0295	.0277
#3	34.03	.0248	.0911	.0221	-.0014	-.0312	.0180

Elem	V	Zn
Units	ppm	ppm
Avge	.0017	.4997
SDev	.0006	.0024
%RSD	37.81	.4705
#1	.0024	.5007
#2	.0015	.5013
#3	.0011	.4970

Method: CLP1 Sample Name: 9702042 Operator:
Run Time: 02/18/97 15:57:36
Comment: B60224
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2618	68.54	.2357	.3532	.0043	47.14	-.0013
SDev	.0007	.08	.0346	.0007	.0000	.07	.0004
%RSD	.2742	.1129	14.69	.1855	.0709	.1391	32.75
#1	.2622	68.50	.2752	.3539	.0043	47.22	-.0018
#2	.2610	68.63	.2210	.3530	.0043	47.11	-.0010
#3	.2623	68.49	.2108	.3526	.0043	47.10	-.0012

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0357	.6261	.2930	302.5	19.72	24.49	1.591
SDev	.0016	.0026	.0008	.3	.05	.04	.003
%RSD	4.378	.4204	.2816	.1122	.2571	.1601	.1833
#1	.0362	.6235	.2939	302.8	19.77	24.47	1.593
#2	.0370	.6259	.2924	302.7	19.68	24.53	1.592
#3	.0340	.6288	.2928	302.1	19.70	24.46	1.587

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	33.07	.1675	2.346	.0962	.0215	-.0565	.0835
SDev	.04	.0024	.027	.0158	.0026	.0242	.0346
%RSD	.1344	1.441	1.157	16.47	11.99	42.84	41.41
#1	33.06	.1676	2.346	.0987	.0215	-.0303	.0440
#2	33.12	.1650	2.318	.0793	.0240	-.0612	.1081
#3	33.03	.1698	2.372	.1107	.0189	-.0780	.0985

Elem	V	Zn
Units	ppm	ppm
Avge	.3125	4.480
SDev	.0006	.005
%RSD	.1932	.1087
#1	.3123	4.481
#2	.3131	4.485
#3	.3120	4.475

Method: CLP1 Sample Name: CCV2 Operator:
Run Time: 02/18/97 16:02:37
Comment: CCV2
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9923	4.938	5.079	2.513	2.455	4.997	4.986
SDev	.0040	.024	.040	.013	.013	.022	.027
%RSD	.3986	.4944	.7812	.5223	.5461	.4348	.5396
#1	.9961	4.953	5.094	2.526	2.467	5.019	5.011
#2	.9882	4.910	5.034	2.500	2.440	4.976	4.957
#3	.9928	4.952	5.109	2.515	2.457	4.997	4.990
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	5.000	5.000	2.500	2.500	5.000	5.000
Range	.1000	.5000	.5000	.2500	.2500	.5000	.5000

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.511	2.519	2.529	5.107	10.18	5.143	2.491
SDev	.010	.011	.010	.047	.08	.022	.010
%RSD	.4109	.4260	.3996	.9193	.7670	.4253	.4194
#1	2.521	2.531	2.539	5.161	10.26	5.162	2.500
#2	2.501	2.511	2.519	5.077	10.11	5.119	2.480
#3	2.512	2.515	2.529	5.083	10.16	5.147	2.493
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	2.500	5.000	10.00	5.000	2.500
Range	.2500	.2500	.2500	.5000	1.000	.5000	.2500

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.13	5.016	4.890	5.199	.9864	5.251	Q.0662
SDev	.04	.026	.056	.007	.0029	.015	.0068
%RSD	.3581	.5194	1.151	.1347	.2913	.2927	10.33
#1	10.16	5.040	4.914	5.206	.9855	5.257	Q.0658
#2	10.09	4.988	4.931	5.192	.9842	5.234	Q.0732
#3	10.13	5.018	4.826	5.198	.9897	5.263	Q.0596
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.00	5.000		5.000	1.000	5.000	5.000
Range	1.000	.5000		.5000	.1000	.5000	.5000

Elem	V	Zn
Units	ppm	ppm
Avge	2.483	5.031
SDev	.012	.020
%RSD	.4751	.3925
#1	2.493	5.049
#2	2.470	5.009
#3	2.487	5.034
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CCB2 Operator:
Run Time: 02/18/97 16:07:22
Comment: CCB2
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0099	.0196	.0007	-.0000	.0044	.0011
SDev	.0002	.0082	.0064	.0002	.0010	.0034	.0000
%RSD	24.50	82.34	32.69	30.00	18610.	76.38	.1016
#1	-.0008	-.0099	.0203	.0009	.0011	.0037	.0011
#2	-.0008	-.0181	.0257	.0005	-.0002	.0015	.0011
#3	-.0012	-.0018	.0129	.0007	-.0009	.0081	.0011
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0003	.0013	.0065	.0149	.0043	.0011
SDev	.0019	.0014	.0012	.0026	.0242	.0035	.0003
%RSD	188.8	426.1	91.60	39.85	162.3	80.35	30.00
#1	-.0030	.0005	.0011	.0094	.0043	.0029	.0014
#2	-.0007	-.0019	.0003	.0053	-.0021	.0018	.0008
#3	.0008	.0005	.0026	.0047	.0426	.0083	.0011
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0002	.0023	.0063	.0018	.0389	.0102
SDev	.0027	.0021	.0113	.0022	.0073	.0165	.0265
%RSD	267.6	1200.	484.1	34.82	394.0	42.47	258.7
#1	-.0041	.0023	-.0078	.0063	-.0063	.0391	.0182
#2	.0012	-.0020	.0003	.0085	.0078	.0553	.0318
#3	-.0001	.0002	.0145	.0041	.0041	.0223	-.0193
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0011	.0015
SDev	.0023	.0007
%RSD	206.7	48.55
#1	.0010	.0017
#2	-.0011	.0020
#3	.0035	.0007
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: 9702043 Operator:
Run Time: 02/18/97 16:12:28
Comment: B224AX
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	-.0019	.0094	.0384	-.0005	45.52	.0011
SDev	.0016	.0033	.0122	.0001	.0004	.16	.0008
%RSD	171.9	178.9	129.5	.3225	85.99	.3567	70.16
#1	-.0020	-.0006	.0201	.0385	-.0002	45.70	.0006
#2	-.0016	-.0057	-.0039	.0385	-.0002	45.45	.0020
#3	.0009	.0007	.0121	.0382	-.0009	45.40	.0007

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.0029	.0015	10.55	12.28	19.85	.3860
SDev	.0009	.0019	.0004	.04	.05	.04	.0017
%RSD	14.27	67.94	27.31	.3647	.4424	.2204	.4352
#1	.0067	.0032	.0011	10.59	12.33	19.90	.3879
#2	.0056	.0008	.0015	10.54	12.22	19.83	.3850
#3	.0075	.0046	.0018	10.51	12.28	19.82	.3850

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.42	.0300	.0277	.0107	.0012	.0125	.0698
SDev	.11	.0003	.0559	.0054	.0053	.0145	.0180
%RSD	.3630	1.031	202.0	50.68	435.3	115.5	25.72
#1	31.55	.0296	-.0366	.0122	.0065	.0291	.0543
#2	31.39	.0301	.0649	.0047	-.0042	.0022	.0657
#3	31.33	.0301	.0548	.0153	.0013	.0063	.0895

Elem	V	Zn
Units	ppm	ppm
Avge	.0001	1.164
SDev	.0005	.003
%RSD	601.2	.2961
#1	.0004	1.168
#2	.0004	1.164
#3	-.0005	1.162

Method: CLP1 Sample Name: 9702044 Operator:
Run Time: 02/18/97 16:17:04
Comment: B60225
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0691	93.49	.1064	.2332	.0051	23.52	-.0001
SDev	.0015	.31	.0147	.0014	.0004	.08	.0005
%RSD	2.126	.3343	13.79	.5911	7.647	.3521	445.5
#1	.0707	93.73	.0907	.2342	.0054	23.58	.0000
#2	.0679	93.13	.1087	.2317	.0047	23.42	.0003
#3	.0687	93.60	.1198	.2338	.0054	23.55	-.0006

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0343	.5832	.4907	216.7	29.48	113.7	1.076
SDev	.0024	.0047	.0015	1.0	.16	.4	.004
%RSD	6.835	.8139	.3057	.4706	.5544	.3616	.3649
#1	.0351	.5865	.4917	217.5	29.63	113.9	1.080
#2	.0317	.5854	.4890	215.6	29.30	113.2	1.072
#3	.0362	.5778	.4913	217.1	29.49	113.9	1.077

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.00	.2570	2.081	.0949	.0219	-.0278	-.0232
SDev	.33	.0024	.084	.0075	.0014	.0236	.0233
%RSD	.4967	.9540	4.040	7.939	6.524	84.89	100.4
#1	66.10	.2565	2.171	.0897	.0227	-.0012	.0010
#2	65.63	.2597	2.065	.0915	.0202	-.0358	-.0251
#3	66.26	.2549	2.005	.1036	.0228	-.0463	-.0456

Elem	V	Zn
Units	ppm	ppm
Avge	.2469	4.027
SDev	.0006	.013
%RSD	.2353	.3322
#1	.2472	4.040
#2	.2462	4.014
#3	.2473	4.028

Method: CLP1 Sample Name: 9702044D Operator:
Run Time: 02/18/97 16:21:41
Comment: B60225D
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0707	84.76	.1175	.2169	.0054	23.51	.0004
SDev	.0002	.45	.0418	.0014	.0000	.13	.0007
%RSD	.2881	.5312	35.61	.6581	.0575	.5342	177.9
#1	.0710	85.28	.1322	.2186	.0054	23.65	-.0004
#2	.0706	84.48	.0703	.2160	.0054	23.41	.0008
#3	.0706	84.53	.1501	.2162	.0054	23.47	.0008

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0322	.5738	.4920	217.4	29.14	114.1	1.075
SDev	.0002	.0018	.0026	1.4	.15	.6	.007
%RSD	.6716	.3170	.5364	.6248	.5231	.5316	.6366
#1	.0321	.5738	.4949	218.9	29.31	114.8	1.082
#2	.0321	.5719	.4897	216.5	29.03	113.7	1.069
#3	.0325	.5756	.4913	216.7	29.07	113.7	1.072

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.42	.2495	2.021	.0959	.0193	-.0464	.0383
SDev	.41	.0005	.049	.0085	.0097	.0261	.0262
%RSD	.6128	.2144	2.414	8.842	50.13	56.30	68.53
#1	66.89	.2490	2.075	.0894	.0304	-.0178	.0135
#2	66.18	.2495	1.981	.0928	.0151	-.0691	.0657
#3	66.20	.2500	2.005	.1054	.0125	-.0523	.0356

Elem	V	Zn
Units	ppm	ppm
Avge	.2450	4.039
SDev	.0006	.018
%RSD	.2469	.4491
#1	.2445	4.060
#2	.2457	4.029
#3	.2448	4.028

Method: CLP1 Sample Name: 9702044S Operator:
Run Time: 02/18/97 16:26:26
Comment: B60225S
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1125	96.46	1.967	2.168	.0528	22.70	.0454
SDev	.0007	.39	.025	.006	.0004	.07	.0009
%RSD	.6464	.4056	1.248	.2656	.7504	.3027	1.894
#1	.1121	96.88	1.968	2.174	.0530	22.76	.0463
#2	.1121	96.41	1.991	2.167	.0523	22.71	.0454
#3	.1133	96.10	1.942	2.163	.0530	22.63	.0445

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5037	.7280	.7142	207.0	28.97	110.4	1.512
SDev	.0041	.0052	.0024	.7	.11	.5	.006
%RSD	.8175	.7092	.3344	.3191	.3652	.4277	.4100
#1	.5061	.7316	.7167	207.7	29.07	110.9	1.519
#2	.5061	.7303	.7139	207.0	28.98	110.3	1.512
#3	.4989	.7221	.7119	206.3	28.86	109.9	1.507

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	64.24	.7137	1.977	.5799	.3301	1.920	1.851
SDev	.19	.0014	.023	.0031	.0042	.033	.015
%RSD	.2937	.1886	1.162	.5284	1.282	1.706	.8036
#1	64.44	.7150	1.994	.5831	.3255	1.885	1.838
#2	64.20	.7123	1.987	.5797	.3311	1.950	1.867
#3	64.07	.7139	1.951	.5770	.3338	1.925	1.847

Elem	V	Zn
Units	ppm	ppm
Avge	.7040	4.371
SDev	.0022	.014
%RSD	.3117	.3288
#1	.7061	4.382
#2	.7041	4.377
#3	.7017	4.355

Method: CLP1 Sample Name: 9702044L Operator:
Run Time: 02/18/97 16:31:08
Comment: B60225L
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0151	18.42	.0389	.0473	.0009	4.741	-.0002
SDev	.0008	.10	.0141	.0005	.0000	.011	.0005
%RSD	5.510	.5604	36.17	1.047	.6176	.2243	293.6
#1	.0142	18.54	.0474	.0479	.0009	4.747	-.0002
#2	.0151	18.37	.0467	.0470	.0009	4.728	.0004
#3	.0159	18.36	.0227	.0470	.0009	4.746	-.0007

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	.1189	.0984	43.92	6.151	22.46	.6262
SDev	.0009	.0038	.0006	.19	.045	.12	.0022
%RSD	15.19	3.204	.6153	.4436	.7367	.5425	.3516
#1	.0052	.1146	.0990	44.12	6.200	22.60	.6287
#2	.0063	.1218	.0978	43.74	6.111	22.37	.6248
#3	.0071	.1204	.0986	43.88	6.143	22.42	.6251

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.96	.0515	.4340	.0253	.0028	.0146	-.0008
SDev	.09	.0019	.0252	.0057	.0037	.0199	.0148
%RSD	.7031	3.596	5.806	22.62	134.0	136.2	1850.
#1	13.07	.0505	.4412	.0188	.0041	.0350	.0041
#2	12.91	.0537	.4549	.0274	-.0014	.0135	-.0174
#3	12.91	.0505	.4060	.0296	.0056	-.0047	.0109

Elem	V	Zn
Units	ppm	ppm
Avge	.0502	.8208
SDev	.0011	.0027
%RSD	2.134	.3242
#1	.0492	.8218
#2	.0513	.8178
#3	.0501	.8228

Method: CLP1 Sample Name: 9702045 Operator:
Run Time: 02/18/97 16:35:52
Comment: B225AX
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	8.201	-.0010	.0703	.0018	24.26	-.0001
SDev	.0010	.074	.0115	.0005	.0007	.16	.0005
%RSD	60.28	.9029	1095.	.7041	37.73	.6541	979.4
#1	-.0027	8.247	-.0143	.0706	.0011	24.34	-.0006
#2	-.0019	8.242	.0057	.0706	.0025	24.36	.0004
#3	-.0006	8.116	.0055	.0698	.0018	24.08	.0001

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0243	.0253	.0362	50.13	29.96	132.3	.8465
SDev	.0034	.0022	.0005	.41	.29	1.2	.0065
%RSD	13.89	8.536	1.262	.8245	.9709	.8960	.7724
#1	.0209	.0233	.0359	50.35	30.10	133.0	.8501
#2	.0243	.0250	.0359	50.38	30.16	132.9	.8504
#3	.0277	.0276	.0367	49.65	29.63	130.9	.8389

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.73	.1917	.0182	.0093	.0012	.0179	.0872
SDev	.72	.0000	.0322	.0053	.0079	.0049	.0241
%RSD	.9880	.0000	176.8	56.64	647.8	27.20	27.65
#1	73.09	.1917	.0502	.0037	-.0057	.0131	.0636
#2	73.20	.1917	.0187	.0099	-.0005	.0178	.1118
#3	71.90	.1917	-.0142	.0142	.0099	.0228	.0863

Elem	V	Zn
Units	ppm	ppm
Avge	-.0012	5.148
SDev	.0013	.027
%RSD	109.4	.5181
#1	.0002	5.156
#2	-.0023	5.170
#3	-.0014	5.119

Method: CLP1 Sample Name: 9702045D Operator:
Run Time: 02/18/97 16:40:24
Comment: B225AXD
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	8.168	.0018	.0695	.0018	24.03	.0013
SDev	.0005	.053	.0103	.0004	.0000	.19	.0007
%RSD	23.31	.6490	569.3	.6425	.4743	.8024	54.99
#1	-.0015	8.228	-.0054	.0700	.0018	24.23	.0021
#2	-.0023	8.152	-.0027	.0693	.0018	23.99	.0006
#3	-.0023	8.125	.0136	.0691	.0018	23.85	.0012

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0238	.0242	.0357	49.57	29.73	131.5	.8342
SDev	.0009	.0006	.0006	.39	.18	1.0	.0071
%RSD	3.969	2.570	1.699	.7963	.6063	.7564	.8472
#1	.0247	.0248	.0351	49.99	29.92	132.6	.8416
#2	.0239	.0235	.0355	49.53	29.70	131.3	.8334
#3	.0228	.0242	.0363	49.21	29.56	130.6	.8275

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.22	.1892	-.0372	.0076	.0003	.0053	.0873
SDev	.41	.0022	.0261	.0087	.0044	.0230	.0186
%RSD	.5699	1.177	70.10	114.6	1515.	434.2	21.35
#1	72.67	.1885	-.0307	.0030	-.0034	-.0110	.0960
#2	72.15	.1874	-.0659	.0022	-.0008	.0316	.0659
#3	71.85	.1917	-.0150	.0176	.0051	-.0047	.1000

Elem	V	Zn
Units	ppm	ppm
Avge	-.0011	5.118
SDev	.0017	.023
%RSD	156.5	.4443
#1	-.0014	5.143
#2	-.0026	5.110
#3	.0008	5.099

Method: CLP1 Sample Name: 9702045S Operator:
Run Time: 02/18/97 16:45:02
Comment: B225AXS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0425	10.03	2.035	2.075	.0511	23.72	.0487
SDev	.0011	.07	.052	.016	.0004	.17	.0003
%RSD	2.572	.7458	2.535	.7714	.8057	.6976	.6650
#1	.0437	10.03	2.013	2.079	.0513	23.73	.0483
#2	.0421	10.10	2.094	2.089	.0506	23.89	.0487
#3	.0417	9.955	1.999	2.057	.0514	23.55	.0489

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5174	.2210	.2841	49.98	29.35	129.9	1.321
SDev	.0049	.0029	.0002	.36	.20	.9	.009
%RSD	.9486	1.318	.0799	.7198	.6664	.6992	.6786
#1	.5197	.2205	.2843	50.00	29.42	130.1	1.320
#2	.5208	.2183	.2843	50.33	29.50	130.7	1.330
#3	.5118	.2241	.2839	49.61	29.13	128.9	1.312

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	71.24	.6823	-.0108	.5223	.5206	2.090	2.115
SDev	.49	.0046	.0471	.0148	.0020	.021	.006
%RSD	.6924	.6791	436.2	2.828	.3915	1.021	.2967
#1	71.33	.6850	-.0568	.5362	.5227	2.103	2.118
#2	71.69	.6850	.0373	.5238	.5187	2.102	2.108
#3	70.71	.6770	-.0129	.5068	.5205	2.066	2.119

Elem	V	Zn
Units	ppm	ppm
Avge	.4926	5.548
SDev	.0042	.032
%RSD	.8471	.5765
#1	.4934	5.551
#2	.4963	5.579
#3	.4881	5.515

Method: CLP1 Sample Name: 9702045L Operator:
Run Time: 02/18/97 16:49:29
Comment: B225AXL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	1.619	.0153	.0152	.0000	4.810	.0001
SDev	.0009	.013	.0166	.0006	.0004	.035	.0011
%RSD	502.2	.7797	108.7	4.085	205400.	.7178	834.3
#1	.0001	1.628	.0299	.0155	.0005	4.822	.0005
#2	.0005	1.605	.0188	.0155	-.0002	4.771	.0010
#3	-.0011	1.626	-.0028	.0144	-.0002	4.837	-.0011

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.0063	.0082	10.01	5.958	25.95	.2906
SDev	.0008	.0046	.0024	.09	.011	.26	.0024
%RSD	16.48	72.44	29.04	.9320	.1857	1.004	.8099
#1	.0041	.0075	.0082	10.05	5.951	26.06	.2918
#2	.0056	.0102	.0106	9.905	5.951	25.66	.2879
#3	.0045	.0013	.0058	10.08	5.970	26.14	.2921

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.17	.0387	-.0128	.0157	.0017	.0549	.0352
SDev	.16	.0014	.0364	.0130	.0035	.0014	.0296
%RSD	1.121	3.658	284.6	82.85	201.1	2.586	83.98
#1	14.20	.0398	.0024	.0130	.0039	.0560	.0670
#2	14.00	.0392	.0136	.0298	.0036	.0554	.0301
#3	14.32	.0371	-.0544	.0042	-.0023	.0533	.0085

Elem	V	Zn
Units	ppm	ppm
Avge	-.0000	1.020
SDev	.0015	.007
%RSD	3895.	.6579
#1	-.0002	1.024
#2	.0015	1.013
#3	-.0014	1.025

Method: CLP1 Sample Name: 9702040 Operator:
Run Time: 02/18/97 16:54:07
Comment: B60223
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.037	272.0	1.312	1.094	.0237	37.94	.0137
SDev	.002	.2	.049	.001	.0004	.08	.0006
%RSD	.0749	.0752	3.709	.0792	1.614	.2188	4.352
#1	3.038	272.0	1.362	1.093	.0241	37.94	.0130
#2	3.038	272.2	1.264	1.094	.0235	38.03	.0142
#3	3.034	271.8	1.309	1.094	.0235	37.86	.0139

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1201	4.323	1.567	2197.	89.24	48.56	5.995
SDev	.0015	.009	.001	1.	.09	.06	.004
%RSD	1.263	.2120	.0876	.0379	.0988	.1311	.0677
#1	.1209	4.334	1.568	2196.	89.14	48.57	5.997
#2	.1210	4.319	1.568	2198.	89.30	48.61	5.998
#3	.1183	4.317	1.565	2197.	89.27	48.49	5.991

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	43.98	.6271	9.540	.4810	.1421	-.4180	.9503
SDev	.06	.0040	.022	.0114	.0215	.0583	.0795
%RSD	.1321	.6404	.2303	2.371	15.14	13.96	8.367
#1	43.91	.6294	9.516	.4908	.1363	-.3700	.9530
#2	44.02	.6224	9.560	.4838	.1240	-.4829	.8695
#3	44.00	.6294	9.544	.4685	.1659	-.4011	1.028

Elem	V	Zn
Units	ppm	ppm
Avge	1.662	14.07
SDev	.002	.02
%RSD	.1498	.1079
#1	1.665	14.07
#2	1.661	14.08
#3	1.661	14.05

Method: CLP1 Sample Name: CCV3 Operator:
Run Time: 02/18/97 17:00:40
Comment: CCV3
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9879	4.900	5.175	2.506	2.442	4.971	4.956
SDev	.0073	.049	.071	.025	.025	.042	.047
%RSD	.7337	1.004	1.374	.9945	1.020	.8533	.9527
#1	.9799	4.851	5.093	2.480	2.416	4.930	4.908
#2	.9899	4.900	5.211	2.509	2.444	4.968	4.958
#3	.9940	4.949	5.220	2.529	2.466	5.015	5.002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	5.000	5.000	2.500	2.500	5.000	5.000
Range	.1000	.5000	.5000	.2500	.2500	.5000	.5000

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.509	2.504	2.518	5.157	10.13	5.123	2.479
SDev	.019	.016	.021	.033	.07	.039	.022
%RSD	.7400	.6521	.8351	.6445	.6944	.7670	.8988
#1	2.490	2.488	2.497	5.194	10.05	5.081	2.456
#2	2.509	2.503	2.520	5.148	10.17	5.128	2.482
#3	2.527	2.521	2.539	5.129	10.18	5.160	2.500
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	2.500	5.000	10.00	5.000	2.500
Range	.2500	.2500	.2500	.5000	1.000	.5000	.2500

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.07	4.979	4.898	5.160	.9942	5.332	Q.0475
SDev	.09	.045	.042	.028	.0044	.071	.0192
%RSD	.8890	.8984	.8597	.5399	.4421	1.333	40.34
#1	9.977	4.933	4.849	5.128	.9921	5.345	Q.0444
#2	10.09	4.982	4.923	5.181	.9912	5.255	Q.0301
#3	10.15	5.023	4.922	5.169	.9992	5.396	Q.0680
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.00	5.000		5.000	1.000	5.000	5.000
Range	1.000	.5000		.5000	.1000	.5000	.5000

Elem	V	Zn
Units	ppm	ppm
Avge	2.478	5.015
SDev	.021	.035
%RSD	.8654	.6906
#1	2.455	4.979
#2	2.482	5.017
#3	2.497	5.048
Errors	QC Pass	QC Pass

M 0197

Method: CLP1 Sample Name: CCB3 Operator:
Run Time: 02/18/97 17:10:37
Comment: CCB3
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0074	.0187	.0007	-.0000	.0048	.0010
SDev	.0002	.0049	.0080	.0002	.0004	.0019	.0001
%RSD	174.6	66.52	42.93	30.00	9472.	40.70	14.47
#1	.0000	-.0043	.0216	.0009	-.0002	.0063	.0011
#2	-.0000	-.0048	.0249	.0005	-.0002	.0026	.0009
#3	-.0004	-.0131	.0097	.0007	.0005	.0055	.0011
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	.0029	.0005	.0137	.0277	.0149	.0002
SDev	.0011	.0012	.0010	.0016	.0242	.0057	.0006
%RSD	99.88	41.54	188.6	11.45	87.37	38.64	128.6
#1	-.0000	.0041	.0007	.0155	.0554	.0136	.0011
#2	-.0011	.0017	-.0005	.0128	.0170	.0099	.0001
#3	-.0023	.0029	.0015	.0128	.0106	.0212	.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	.0020	.0199	.0098	-.0001	.0135	.0140
SDev	.0019	.0003	.0308	.0032	.0074	.0340	.0111
%RSD	81.73	15.75	154.2	32.31	5111.	252.5	79.43
#1	-.0010	.0018	.0247	.0107	.0081	-.0249	.0023
#2	-.0045	.0018	.0481	.0063	-.0022	.0398	.0244
#3	-.0015	.0023	-.0129	.0124	-.0063	.0256	.0153
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0008	.0019
SDev	.0016	.0005
%RSD	189.7	26.88
#1	.0026	.0020
#2	.0001	.0013
#3	-.0003	.0023
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: 9702040 Operator:
Run Time: 02/18/97 17:20:37
Comment: B60223
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3272	28.28	.1262	.1129	.0023	4.104	-.0014
SDev	.0016	.06	.0206	.0006	.0000	.019	.0006
%RSD	.5034	.2234	16.32	.5027	.0265	.4728	45.13
#1	.3263	28.22	.1357	.1126	.0023	4.088	-.0007
#2	.3291	28.34	.1404	.1135	.0023	4.126	-.0018
#3	.3263	28.28	.1026	.1124	.0023	4.098	-.0017

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	.4693	.1645	243.5	9.028	5.165	.6509
SDev	.0023	.0024	.0013	.8	.015	.029	.0027
%RSD	19.19	.5020	.7749	.3430	.1634	.5709	.4180
#1	.0104	.4694	.1640	243.1	9.011	5.134	.6497
#2	.0108	.4716	.1659	244.4	9.037	5.192	.6541
#3	.0145	.4669	.1636	242.9	9.037	5.168	.6490

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.461	.0674	1.005	.0647	.0188	-.0284	.0921
SDev	.017	.0025	.062	.0107	.0058	.0217	.0208
%RSD	.3831	3.666	6.219	16.61	30.65	76.40	22.62
#1	4.441	.0660	1.034	.0700	.0240	-.0033	.1050
#2	4.467	.0660	1.048	.0719	.0199	-.0414	.0680
#3	4.474	.0703	.9332	.0524	.0126	-.0404	.1032

Elem	V	Zn
Units	ppm	ppm
Avge	.1746	1.569
SDev	.0001	.005
%RSD	.0686	.3012
#1	.1745	1.564
#2	.1748	1.572
#3	.1746	1.572

Method: CLP1 Sample Name: 9700955 Operator:
Run Time: 02/18/97 17:25:13
Comment: MW103U
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0073	.0045	.3528	-.0007	155.2	.0005
SDev	.0004	.0032	.0234	.0019	.0004	.4	.0011
%RSD	330.8	44.30	516.1	.5470	57.39	.2615	213.0
#1	.0003	.0064	-.0224	.3547	-.0002	155.6	-.0006
#2	-.0001	.0109	.0196	.3528	-.0009	155.1	.0007
#3	-.0005	.0046	.0164	.3509	-.0009	154.8	.0015

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0053	.0021	3.639	60.92	47.98	.1426
SDev	.0009	.0016	.0006	.050	.27	.18	.0006
%RSD	34.33	29.74	28.67	1.381	.4375	.3650	.3921
#1	.0019	.0070	.0026	3.693	61.20	48.17	.1429
#2	.0026	.0039	.0022	3.629	60.89	47.95	.1419
#3	.0038	.0051	.0015	3.594	60.67	47.82	.1429

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	136.7	.0011	.0193	.0184	.0009	.0429	.0862
SDev	.5	.0011	.0502	.0034	.0020	.0154	.0297
%RSD	.3797	104.1	259.4	18.36	226.1	35.95	34.51
#1	137.3	.0007	.0690	.0147	.0008	.0465	.1178
#2	136.7	.0002	.0204	.0191	.0030	.0562	.0820
#3	136.2	.0023	-.0314	.0213	-.0011	.0260	.0587

Elem	V	Zn
Units	ppm	ppm
Avge	.0006	.0278
SDev	.0006	.0008
%RSD	112.1	3.031
#1	.0007	.0286
#2	.0011	.0279
#3	-.0001	.0269

Method: CLP1 Sample Name: CRIF Operator:
Run Time: 02/18/97 17:30:06
Comment: CRIF
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0184	-.0111	.0260	.0004	.0088	.0407	.0096
SDev	.0014	.0042	.0043	.0003	.0007	.0143	.0003
%RSD	7.871	37.55	16.61	91.65	7.783	35.00	3.163
#1	.0183	-.0066	.0229	.0007	.0095	.0563	.0098
#2	.0200	-.0117	.0242	.0003	.0088	.0376	.0092
#3	.0171	-.0149	.0309	.0001	.0082	.0284	.0098

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0952	.0222	.0500	.0127	.0575	.0248	.0300
SDev	.0019	.0016	.0010	.0035	.0224	.0098	.0003
%RSD	1.946	7.234	1.994	27.36	39.02	39.35	1.067
#1	.0931	.0233	.0510	.0152	.0809	.0320	.0296
#2	.0961	.0230	.0502	.0142	.0554	.0288	.0300
#3	.0965	.0204	.0490	.0087	.0362	.0137	.0303

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0467	.0797	.0140	.0177	.1238	.0100	.0281
SDev	.0150	.0016	.0163	.0066	.0070	.0201	.0343
%RSD	32.23	2.050	116.8	37.23	5.622	200.8	122.3
#1	.0595	.0794	.0312	.0252	.1298	.0232	.0275
#2	.0503	.0815	-.0013	.0139	.1254	.0199	.0627
#3	.0301	.0783	.0120	.0139	.1162	-.0131	-.0060

Elem	V	Zn
Units	ppm	ppm
Avge	.0991	.0399
SDev	.0009	.0000
%RSD	.8718	.0179
#1	.0981	.0399
#2	.0994	.0399
#3	.0998	.0399

Method: CLP1 Sample Name: ICSAF Operator:
Run Time: 02/18/97 17:35:26
Comment: ICSAF
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	483.0	-.1684	.0071	-.0004	468.9	-.0010
SDev	.0009	3.3	.0428	.0002	.0004	3.7	.0005
%RSD	51.65	.6821	25.44	3.000	88.42	.7876	44.75
#1	-.0010	479.8	-.1360	.0074	-.0002	464.8	-.0013
#2	-.0026	486.3	-.1523	.0071	-.0009	471.8	-.0005
#3	-.0014	482.8	-.2169	.0069	-.0002	470.3	-.0012
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0				500.0	
Range		20.00				20.00	

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0046	.0012	178.7	.0064	506.3	.0109
SDev	.0018	.0045	.0016	1.6	.0369	3.4	.0006
%RSD	88.48	97.15	134.8	.8864	577.3	.6775	5.744
#1	.0000	.0006	.0030	176.9	.0490	502.7	.0102
#2	.0034	-.0071	.0003	180.0	-.0149	509.5	.0113
#3	.0026	-.0072	.0003	179.2	-.0149	506.6	.0113
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0		500.0	
Range				20.00		20.00	

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0293	-.0075	.0700	-.0399	.0126	-.0528	-.2481
SDev	.0020	.0013	.0407	.0058	.0083	.0335	.0467
%RSD	6.928	17.98	58.20	14.66	66.45	63.39	18.83
#1	-.0269	-.0073	.0323	-.0459	.0080	-.0157	-.2055
#2	-.0304	-.0062	.0644	-.0396	.0222	-.0808	-.2980
#3	-.0304	-.0089	.1131	-.0342	.0075	-.0620	-.2407
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	V	Zn
Units	ppm	ppm
Avge	-.0023	.0176
SDev	.0025	.0005
%RSD	107.8	2.825
#1	.0004	.0175
#2	-.0029	.0182
#3	-.0045	.0173
Errors	NOCHECK	NOCHECK

Method: CLP1 Sample Name: ICSABF Operator:
Run Time: 02/18/97 17:40:27
Comment: ICSABF
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9281	484.1	.7184	.4852	.4550	474.3	.8717
SDev	.0035	2.1	.0434	.0026	.0027	1.6	.0041
%RSD	.3817	.4344	6.041	.5273	.6052	.3402	.4712
#1	.9276	484.9	.7386	.4872	.4575	475.6	.8751
#2	.9247	481.7	.7481	.4823	.4520	472.5	.8671
#3	.9318	485.7	.6686	.4860	.4554	474.9	.8730
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	500.0		.5000	.5000	500.0	1.000
Range	20.00	20.00		20.00	20.00	20.00	20.00

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4515	.4471	.4826	180.8	.0106	509.1	.4620
SDev	.0008	.0032	.0022	.8	.0338	1.8	.0018
%RSD	.1729	.7224	.4523	.4322	317.5	.3545	.3857
#1	.4524	.4507	.4837	181.3	-.0277	509.7	.4627
#2	.4512	.4462	.4801	179.9	.0362	507.1	.4599
#3	.4509	.4444	.4841	181.3	.0234	510.6	.4633
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000	.5000	.5000	200.0		500.0	.5000
Range	20.00	20.00	20.00	20.00		20.00	20.00

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1409	.8846	.0601	.9045	.0166	.9866	.6849
SDev	.0049	.0052	.0483	.0176	.0140	.0191	.0298
%RSD	3.446	.5833	80.35	1.946	84.02	1.938	4.353
#1	.1363	.8867	.0065	.9248	.0191	1.004	.6898
#2	.1460	.8787	.0736	.8952	.0016	.9661	.7120
#3	.1403	.8883	.1001	.8936	.0292	.9899	.6529
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		1.000		1.000		1.000	
Range		20.00		20.00		20.00	

Elem	V	Zn
Units	ppm	ppm
Avge	.4429	.9199
SDev	.0027	.0030
%RSD	.6217	.3303
#1	.4443	.9220
#2	.4397	.9164
#3	.4446	.9213
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CCV4 Operator:
Run Time: 02/18/97 17:45:29
Comment: CCV4
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.000	4.987	5.278	2.533	2.475	5.082	5.032
SDev	.006	.027	.022	.019	.020	.033	.030
%RSD	.6012	.5404	.4218	.7356	.8260	.6409	.5977
#1	.9944	4.986	5.253	2.516	2.457	5.095	5.008
#2	1.006	5.015	5.283	2.553	2.498	5.106	5.066
#3	1.001	4.961	5.297	2.531	2.471	5.045	5.022
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	5.000	5.000	2.500	2.500	5.000	5.000
Range	.1000	.5000	.5000	.2500	.2500	.5000	.5000

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.541	2.535	2.543	5.084	10.22	5.226	2.510
SDev	.016	.019	.018	.026	.08	.038	.016
%RSD	.6453	.7569	.7108	.5173	.8193	.7261	.6285
#1	2.528	2.521	2.525	5.080	10.15	5.237	2.503
#2	2.560	2.557	2.561	5.112	10.31	5.257	2.534
#3	2.536	2.527	2.541	5.060	10.21	5.183	2.511
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	2.500	5.000	10.00	5.000	2.500
Range	.2500	.2500	.2500	.5000	1.000	.5000	.2500

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.20	5.053	5.063	.248	1.015	5.437	Q.0399
SDev	.07	.029	.018	.043	.008	.030	.0238
%RSD	.6622	.5765	.3464	.8190	.7723	.5555	59.64
#1	10.14	5.026	5.083	5.207	1.011	5.417	Q.0674
#2	10.27	5.084	5.053	5.293	1.010	5.472	Q.0270
#3	10.18	5.048	5.052	5.245	1.024	5.421	Q.0254
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail
Value	10.00	5.000		5.000	1.000	5.000	5.000
Range	1.000	.5000		.5000	.1000	.5000	.5000

Elem	V	Zn
Units	ppm	ppm
Avge	2.501	5.109
SDev	.018	.022
%RSD	.7261	.4396
#1	2.485	5.094
#2	2.521	5.135
#3	2.497	5.098
Errors	QC Pass	QC Pass

Method: CLP1 Sample Name: CCB4 Operator:
Run Time: 02/18/97 17:52:53
Comment: CCB4
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	-.0135	.0166	.0006	.0002	.0039	.0008
SDev	.0008	.0078	.0126	.0001	.0004	.0040	.0003
%RSD	66.62	58.15	76.25	21.65	174.6	102.8	38.55
#1	-.0021	-.0093	.0310	.0005	.0005	.0007	.0006
#2	-.0012	-.0225	.0110	.0005	.0005	.0026	.0006
#3	-.0004	-.0086	.0076	.0007	-.0002	.0085	.0011
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000		.0000	.0000	.0000	.0000
Range	.0100	.2000		.2000	.0050	5.000	.0050

Elem	Co	Cr	Cu	Fe	K	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.0012	.0009	.0132	.0192	.0066	.0006
SDev	.0027	.0034	.0006	.0014	.0205	.0042	.0002
%RSD	152.0	280.4	65.37	10.34	107.2	63.30	28.67
#1	-.0041	-.0022	.0003	.0132	.0043	.0093	.0004
#2	.0011	.0012	.0011	.0118	.0106	.0018	.0008
#3	-.0023	.0046	.0015	.0145	.0426	.0088	.0008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0500	.0100	.0250	.1000	5.000	5.000	.0150

Elem	Na	Ni	P	Pb	Sb	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0004	-.0088	.0097	-.0011	.0058	.0087
SDev	.0073	.0017	.0433	.0077	.0015	.0135	.0162
%RSD	2479.	482.2	490.9	79.39	130.0	231.2	186.3
#1	-.0045	-.0009	-.0291	.0010	-.0026	.0054	.0273
#2	-.0032	-.0004	.0409	.0125	-.0011	-.0074	-.0028
#3	.0086	.0023	-.0383	.0155	.0003	.0195	.0017
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000		.0000	.0000		
Range	5.000	.0400		.5000	.0600		

Elem	V	Zn
Units	ppm	ppm
Avge	.0006	.0019
SDev	.0004	.0002
%RSD	75.28	10.13
#1	.0010	.0020
#2	.0006	.0017
#3	.0001	.0020
Errors	QC Pass	QC Pass

H2M LABS, INC.

Standards Prepd: 2/26/97
Source: High Purity

CLIENT NDEC01220 (Case# RS396)
NDEC124 (Case# RA096)
NDEC0122 (RA096) Fe Dilutions

DATE 2/26/97

Trace61E

TASK: PROFCLP2 (Autosampler)

RESULT FILE: RSB96.ASC

ANALYST CG

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702305L	B602401
2	ICVL		27	9702305P	B602401; Cr = +0.20 mg/L Sb = +120 ug/L
3	ICB		28	9702040	B60223; Fe Dilution (1:20)
4	CRI		29	9702042	B60224; Fe Dilution (1:2)
5	ICSAI		30	CRIF	
6	ICSABI		31	ICSAF	
7	CCV1		32	ICSABF	
8	CCVL1		33	CCV3	
9	CCB1		34	CCVL3	
10	PBS1	DEC01220 2/18/97	35	CCB3	
11	PBS2	DEC124 2/18/97	36		
12	LCSS1	DEC01220	37		*9702040 +042 use dilutions For:
13	LCSS2	DEC124	38		
14	9702234	XX0012	39		Fe, Mg, Ts, Ca, Cd, Cr, Cu, Hg
15	9702234D	XX0012D	40		Mn, Pb, Sb, Se, Tl, V, Zn
16	9702234S	XX0012S	41		num 2/27 KJ
17	9702235	XX0013	42		
18	9702236	XX0014	43		
19	9702235L	XX0013L	44		
20	CCV2		45		
21	CCVL2		46		
22	CCB2		47		
23	9702305	B60240	48		
24	9702305D	B602400	49		
25	9702305S	B602405	50		

M 0308

P 0065

Thermo Jarrell Ash
AutoSampler Report Table: RS896 Wed 02-26-97 04:18:19 PM page 1
Trace Gas E

Table Name: RS896 Autosampler Type: TYPE TJA
Sample Positions: 51/96 QC Positions: 19/19 # Sets: 1
Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (28mm)	Samples	0	1
3	Sample (28mm)	Samples	3	1
4	Sample (28mm)	Samples	24	1
5	Sample (28mm)	Samples	24	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		PROFCLP2	45	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor

Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
...19	Not Used)					

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICV	1	-NA-	Sample
2	1	2	ICVL	1	-NA-	Sample
3	1	3	ICB	1	-NA-	Sample
4	1	4	CRII	1	-NA-	Sample
5	1	5	ICSAI	1	-NA-	Sample
6	1	6	ICSABI	1	-NA-	Sample
7	1	7	CCV1	1	-NA-	Sample
8	1	8	CCVL1	1	-NA-	Sample
9	2	1	CCB1	1	-NA-	Sample
10	2	2	PBS1	1	-NA-	Sample
11	2	3	PBS2	1	-NA-	Sample
12	2	4	LCSS1	1	-NA-	Sample
13	2	5	LCSS2	1	-NA-	Sample
14	2	6	XX0012	1	-NA-	Sample
15	2	7	XX0012D	1	-NA-	Sample
16	2	8	XX0012S	1	-NA-	Sample
17	3	1	XX0013	1	-NA-	Sample
18	3	2	XX0014	1	-NA-	Sample
19	3	3	XX0013L	1	-NA-	Sample
20	3	4	CCV2	1	-NA-	Sample
21	3	5	CCVL2	1	-NA-	Sample

M 0297

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	3	6	CCB2	1	-NA-	Sample
23	3	7	B60240	1	-NA-	Sample
24	3	8	B60240D	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	B60240S	1	-NA-	Sample
2	1	2	B60240L	1	-NA-	Sample
3	1	3	B60240P	1	-NA-	Sample
4	1	4	B60223	1	-NA-	Sample
5	1	5	B60224	1	-NA-	Sample
6	1	6	CRIF	1	-NA-	Sample
7	1	7	ICSAF	1	-NA-	Sample
8	1	8	ICSABF	1	-NA-	Sample
9	2	1	CCV3	1	-NA-	Sample
10	2	2	CCVL3	1	-NA-	Sample
11	2	3	CCB3	1	-NA-	Sample
12	2	4	(empty)	1	-NA-	-NA-
13	2	5	(empty)	1	-NA-	-NA-
14	2	6	(empty)	1	-NA-	-NA-
15	2	7	(empty)	1	-NA-	-NA-
16	2	8	(empty)	1	-NA-	-NA-
17	3	1	(empty)	1	-NA-	-NA-
18	3	2	(empty)	1	-NA-	-NA-
19	3	3	(empty)	1	-NA-	-NA-
20	3	4	(empty)	1	-NA-	-NA-
21	3	5	(empty)	1	-NA-	-NA-

(22...24 Not Used)

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type

(1...24 Not Used)

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type

(1...24 Not Used)

M 0208

H2M LABS, INC.

SDG NO.: NDEC01220 ; NDEC124
DATE: 2/26/97
ANALYST: CGZ
ELEMENT: TCL Metals

METALS QC CHECKLIST

	YES	NO	NA
GENERAL			
1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE	✓		
1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB?	✓		
2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION	✓		
3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION	✓		
4. ARE THE "S" SPIKE RECOVERIES CHECKED?	✓		
5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL?	✓		
6. IS THE PREP BLANK LABELLED AS WATER OR SOIL?	✓		
7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES?		✓	
8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY?			✓
9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID?	✓		
10. ARE ALL PAGES SIGNED AND DATED?	✓		
11. WAS A CRA/CRI STD. ANALYZED?	✓		
12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.?	✓		
13. IS THE INITIAL CAL. COEFF. > 0.995?	✓		
14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE?			✓
FURNACE			
15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE			
16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE			
17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE			
18. DID ANY SAMPLES REQUIRE MSA ANALYSIS?			
19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN?			
20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB?			
ICP			
21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA?			✓
22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION?	✓		

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

M 0209

Thermo Jarrell Ash
Standardization Rpt.
Trace 61E
Method: PROFCLP2 Standard: BLANK

NDEC01220(RS896)
NDEC 124 (RA096)
Wed 02-26-97 11:18:57 AM page 1
Charles
Data File: RS896.ASC

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Avge	-.00004	.0040	-.00075	.0015	.0224	-.0020	.0141
SDev	.00016	.0001	.00126	.0002	.0001	.0001	.0003
%RSD	365.86	3.527	167.07	10.37	.4849	4.918	1.846
#1	.00003	.0039	.00013	.0016	.0225	-.0019	.0142
#2	-.00023	.0041	-.00220	.0016	.0223	-.0021	.0138
#3	.00007	.0038	-.00020	.0013	.0224	-.0019	.0143

Elem	Cd	Co	Cr	Cu	Fe	Fe	K
Avge	-.0016	.0002	.0005	.0034	-.0001	.0200	.0125
SDev	.0009	.0004	.0005	.0001	.0000	.0007	.0033
%RSD	54.56	237.3	86.66	1.533	34.88	3.440	26.67
#1	-.0018	.0005	.0008	.0035	-.0001	.0194	.0145
#2	-.0024	-.0003	.0000	.0034	-.0001	.0199	.0086
#3	-.0007	.0004	.0008	.0035	-.0000	.0207	.0142

Elem	Mg	Mn	Mo2020	Na	Na	Ni	2203/1
Avge	.0010	.0051	.0011	-.0384	1.052	.0028	.03021
SDev	.0013	.0015	.0004	.0125	.019	.0003	.00791
%RSD	130.1	29.02	41.64	32.55	1.828	10.70	26.201
#1	.0017	.0061	.0014	-.0309	1.041	.0030	.03313
#2	-.0005	.0034	.0006	-.0529	1.041	.0024	.03624
#3	.0018	.0059	.0013	-.0315	1.074	.0029	.02125

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Sn1899	Sr4215
Avge	-.00479	-.00791	.00219	-.00529	.00127	.0055	.0004
SDev	.00266	.00392	.00200	.00286	.00158	.0060	.0004
%RSD	55.587	49.604	91.165	54.083	124.22	109.4	101.7
#1	-.00578	-.01085	.00398	-.00247	.00049	.0078	.0006
#2	-.00682	-.00942	.00003	-.00523	.00023	-.0013	-.0001
#3	-.00178	-.00345	.00257	-.00819	.00309	.0100	.0006

Elem	Ti	Tl1908	V	Zn
Avge	-.0000	-.01066	-.0000	.0030
SDev	.0000	.00107	.0001	.0001
%RSD	86.61	9.9918	348.0	4.381
#1	-.0001	-.01137	.0000	.0031
#2	-.0001	-.01118	.0000	.0029
#3	.0000	-.00944	-.0002	.0030

M 0210

Method: PROFCLP2 Standard: AGSBH

Elem	Ag	2068/1	2068/2
Avge	.76576	3.6233	1.8876
Dev	.00173	.0130	.0132
%RSD	.22610	.35850	.70189
	.76564	3.6184	1.8810
#2	.76755	3.6135	1.9028
#3	.76410	3.6381	1.8789

InitStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wvlen	371.030	--	--	--	--	--	--
Avge	29650	--	--	--	--	--	--
Dev	125.7463	--	--	--	--	--	--
%SD	.4241004	--	--	--	--	--	--
#1	29778	--	--	--	--	--	--
	29646	--	--	--	--	--	--
	29526	--	--	--	--	--	--

Method: PROFCLP2 Standard: ICSH

Elem	Al	Ca	Fe	Mg
Avge	34.09	61.18	.6415	68.41
SDev	.01	.24	.0024	.30
%RSD	.0171	.3901	.3791	.4392
#1	34.09	61.46	.6443	68.76
#2	34.10	61.05	.6405	68.25
#3	34.09	61.04	.6398	68.23

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28927	--	--	--	--	--	--
SDev	162.6101	--	--	--	--	--	--
%RSD	.5621422	--	--	--	--	--	--
#1	29096	--	--	--	--	--	--
#2	28912	--	--	--	--	--	--
#3	28772	--	--	--	--	--	--

Method: PROFCLP2 Standard: FURNH

Elem	As1890	2203/1	2203/2	1960/1	1960/2	Tl1908
Avge	1.3959	5.7397	2.5375	.83651	.63185	2.0884
Sdev	.0107	.0185	.0412	.00441	.00598	.0173
%RSD	.76593	.32200	1.6241	.52693	.94585	.82623
	1.3849	5.7186	2.5175	.83525	.62733	2.0766
#2	1.3968	5.7528	2.5101	.84141	.62959	2.0804
	1.4062	5.7477	2.5849	.83287	.63862	2.1082

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30058	--	--	--	--	--	--
Sdev	202.7849	--	--	--	--	--	--
%RSD	.6746557	--	--	--	--	--	--
#1	29823	--	--	--	--	--	--
	30172	--	--	--	--	--	--
#3	30177	--	--	--	--	--	--

Method: PROFCLP2 Standard: MULTIH

Elem	B	Ba	Be	Cd	Co	Cr	Cu
Avge	1.478	6.094	8.546	84.88	2.328	2.732	1.446
SDev	.004	.014	.017	.27	.007	.004	.001
%RSD	.2642	.2315	.1967	.3150	.2868	.1538	.0957
#1	1.476	6.086	8.553	85.06	2.329	2.735	1.445
#2	1.482	6.086	8.559	85.02	2.334	2.734	1.445
#3	1.475	6.110	8.527	84.58	2.321	2.727	1.448

Elem	Mn	Mo2020	Ni	Sn1899	Sr4215	Ti	V
Avge	18.95	2.646	2.240	17.48	10.16	2.358	1.213
SDev	.03	.004	.006	.06	.02	.001	.001
%RSD	.1392	.1485	.2603	.3491	.2180	.0472	.0593
#1	18.96	2.649	2.244	17.49	10.14	2.356	1.212
#2	18.97	2.647	2.242	17.54	10.15	2.358	1.213
#3	18.92	2.641	2.233	17.42	10.18	2.358	1.212

Elem	Zn
Avge	4.470
SDev	.009
%RSD	.1977
#1	4.472
#2	4.477
#3	4.460

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30587	--	--	--	--	--	--
SDev	211.1089	--	--	--	--	--	--
%RSD	.6901810	--	--	--	--	--	--
#1	30693	--	--	--	--	--	--
#2	30725	--	--	--	--	--	--
#3	30344	--	--	--	--	--	--

M 0214

thod: PROFCLP2 Standard: FeNaL

Elem	Fe	Na
vge	45.29	46.37
Dev	.18	.12
%RSD	.3923	.2531
1	45.13	46.33
#2	45.27	46.28
3	45.48	46.51

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
Avge	30460	--	--	--	--	--	--
Dev	62.71957	--	--	--	--	--	--
RSD	.2059066	--	--	--	--	--	--
#1	30522	--	--	--	--	--	--
2	30462	--	--	--	--	--	--
#3	30397	--	--	--	--	--	--

Method: PROFCLP2 Standard: NAK100

Elem	K	Na
Avge	20.37	6.294
SDev	.05	.013
%RSD	.2294	.2042
#1	20.40	6.305
#2	20.31	6.296
#3	20.38	6.280

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30433	--	--	--	--	--	--
SDev	136.9599	--	--	--	--	--	--
%RSD	.4500317	--	--	--	--	--	--
#1	30308	--	--	--	--	--	--
#2	30580	--	--	--	--	--	--
#3	30412	--	--	--	--	--	--

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Method: PROFCLP2 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
A	328.068	AGSBH	BLANK	2611.63	.116930	02/26/97 11:50:04
A	308.215	ICSH	BLANK	1.22024	.000416	02/26/97 11:50:04
As1890	189.042	FURNH	BLANK	715.973	.539930	02/26/97 11:50:04
B	249.678	MULTIH	BLANK	3.38738	-.005182	02/26/97 11:50:04
B	493.409	MULTIH	BLANK	.823476	-.018421	02/26/97 11:50:04
Be	313.042	MULTIH	BLANK	.584906	.001146	02/26/97 11:50:04
C	317.933	ICSH	BLANK	.658291	.000995	02/26/97 11:50:04
C	226.502	MULTIH	BLANK	.058903	.000095	02/26/97 11:50:04
C	228.616	MULTIH	BLANK	2.14760	-.000374	02/26/97 11:50:04
Cr	267.716	MULTIH	BLANK	1.83063	-.000983	02/26/97 11:50:04
C	324.754	MULTIH	BLANK	3.46572	-.011859	02/26/97 11:50:04
F	271.441	ICSH	BLANK	.753445	-.000055	02/26/97 11:50:04
Fe	259.940	FeNaL	BLANK	.110437	-.002207	02/26/97 11:50:04
K	766.491	NAK100	BLANK	1.08377	-.000497	02/26/97 11:50:04
M	279.079	ICSH	BLANK	.787283	-.000688	02/26/97 11:50:04
Mn	257.610	MULTIH	BLANK	.263941	-.001357	02/26/97 11:50:04
Mo2020	202 030	MULTIH	BLANK	1.89078	-.002056	02/26/97 11:50:04
N	330.232	NAK100	BLANK	1.02973	-.008233	02/26/97 11:50:04
N	588.995	FeNaL	BLANK	.110325	-.116060	02/26/97 11:50:04
Ni	231.604	MULTIH	BLANK	2.23513	-.006195	02/26/97 11:50:04
P 03/1	220.351	FURNH	BLANK	175.147	-5.29050	02/26/97 11:50:04
P 03/2	220.352	FURNH	BLANK	393.348	1.88585	02/26/97 11:50:04
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
S .960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
2 68/1	206.831	AGSBH	BLANK	550.777	4.35440	02/26/97 11:50:04
2068/2	206.832	AGSBH	BLANK	1060.80	-2.32510	02/26/97 11:50:04
L 60/1	196.021	FURNH	BLANK	1187.92	6.28774	02/26/97 11:50:04
L 60/2	196.022	FURNH	BLANK	1585.85	-2.01797	02/26/97 11:50:04
Sn1899	189.989	MULTIH	BLANK	.572141	-.003138	02/26/97 11:50:04
S 4215	421.552	MULTIH	BLANK	.492299	-.000189	02/26/97 11:50:04
T	334.941	MULTIH	BLANK	2.12073	.000094	02/26/97 11:50:04
T1908	190.864	FURNH	BLANK	476.404	5.08055	02/26/97 11:50:04
V	292.402	MULTIH	BLANK	4.12357	.000135	02/26/97 11:50:04
Z	213.856	MULTIH	BLANK	1.12004	-.003364	02/26/97 11:50:04

M 0217

Method: PROFCLP2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Al	308.215	BLANK	.005237	.003951	.001286
		ICSH	41.6027	34.0936	7.50909

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Ca	317.933	BLANK	.010280	.014105	-.003825
		ICSH	40.2777	61.1838	-20.9060

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	267.716	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.754	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[illegible]	271.441	BLANK	-.000096	-.000055	-.000041
		ICSH	.483302	.641529	-.158227

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[illegible]ement	259.940	BLANK	.000000	.000000	-.000000
		FeNaL	5.00000	5.00000	.000000

[illegible]ement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[illegible]	766.491	BLANK	.012997	.012452	.000546
		NAK100	22.0711	20.3655	1.70559

[illegible]ment	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[illegible]	279.079	BLANK	.000096	.000995	-.000899
		ICSH	53.8566	68.4090	-14.5524

[illegible]ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
In	257.610	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

[illegible]ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[illegible]020	202.030	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

[illegible]ment	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
a	330.232	BLANK	-.047814	-.038439	-.009375
		NAK100	6.47239	6.29353	.178859

[illegible]lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[illegible]	588.995	BLANK	.000000	.000000	-.000000
		FeNaL	5.00000	5.00000	.000000

[illegible]ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
i	231.604	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

[illegible]lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[illegible]3/1	220.351	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	-.000061

[illegible]ment	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[illegible]03/2	220.352	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/1	206.831	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	-.000122

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	292.402	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	-.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	213.856	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00300	-.003000

Method: PROFCLP2 Sample Name: ICV Operator: CGZ
Run Time: 02/26/97 12:00:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1001.9	51.67	484.22	2.504	2.517	2.535	52.61
SDev	1.5	.09	6.00	.009	.011	.028	.69
%RSD	.14903	.1650	1.2393	.3398	.4257	1.112	1.320
#1	1003.6	51.70	487.76	2.510	2.515	2.554	53.08
#2	1000.7	51.58	487.60	2.507	2.507	2.548	52.95
#3	1001.4	51.74	477.29	2.494	2.528	2.502	51.81
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.484	2.481	2.508	2.500	50.84	80.87	48.94
SDev	.044	.028	.026	.012	.58	1.05	.67
%RSD	1.765	1.144	1.029	.4613	1.144	1.297	1.377
#1	2.511	2.501	2.525	2.497	51.23	80.28	49.39
#2	2.507	2.495	2.520	2.489	51.11	80.25	49.25
#3	2.433	2.449	2.478	2.512	50.17	82.08	48.16
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.492	2.468	80.79	2.477	473.49	469.09	470.56
SDev	.020	.024	.20	.036	7.03	4.42	5.26
%RSD	.8211	.9549	.2475	1.437	1.4856	.94247	1.1173
#1	2.507	2.485	80.86	2.503	479.27	471.82	474.30
#2	2.501	2.478	80.57	2.491	475.55	471.46	472.82
#3	2.469	2.441	80.95	2.436	465.66	463.99	464.55
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1014.9	487.12	1023.5	1010.6	479.89	490.73	4.970
SDev	8.5	4.51	6.2	9.6	5.18	4.81	.071
%RSD	.83427	.92642	.60851	.94851	1.0786	.98085	1.422
#1	1022.0	491.51	1028.8	1018.6	482.36	496.08	5.018
#2	1017.1	487.35	1025.0	1013.2	483.37	489.33	5.002
#3	1005.5	482.50	1016.6	999.98	473.94	486.77	4.889
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

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Low	900.00	450.00			
Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0902	2.487	481.97	2.466	2.548
Dev	.0007	.008	3.48	.014	.022
RSD	.7994	.3265	.72289	.5876	.8810
#1	-.0898	2.494	483.97	2.477	2.565
2	-.0897	2.488	484.00	2.472	2.557
3	-.0910	2.478	477.95	2.450	2.523
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			550.00	2.750	2.750
Low			450.00	2.250	2.250

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30227	--	--	--	--	--	--
SDev	371.4836	--	--	--	--	--	--
RSD	1.228982	--	--	--	--	--	--
#1	30337	--	--	--	--	--	--
#2	30531	--	--	--	--	--	--
3	29813	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: ICVL Operator: CGZ
Run Time: 02/26/97 12:07:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.10687	.0217	-.29510	.0039	.0008	.0013	.0476
SDev	2.42381	.0075	3.35252	.0015	.0001	.0002	.0014
%RSD	2268.0	34.26	1136.0	37.07	18.09	16.13	2.990
#1	-2.4578	.0189	-3.9154	.0048	.0009	.0015	.0484
#2	2.3838	.0302	.32789	.0048	.0007	.0013	.0485
#3	-.24652	.0161	2.7022	.0023	.0007	.0011	.0460
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0015	.0015	.0008	2.503	.0619	.0300
SDev	.0004	.0004	.0003	.0014	.009	.0042	.0004
%RSD	33.10	28.58	17.05	186.8	.3472	6.727	1.405
#1	.0011	.0010	.0012	-.0005	2.501	.0607	.0299
#2	.0018	.0019	.0016	.0022	2.512	.0666	.0298
#3	.0010	.0015	.0017	.0006	2.495	.0585	.0305
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0015	.0014	2.604	.0017	-.14298	1.3349	.84310
SDev	.0001	.0001	.012	.0004	2.14646	1.2657	.19601
%RSD	6.819	9.022	.4525	23.24	1501.2	94.815	23.248
#1	.0014	.0014	2.595	.0018	2.1558	-.09935	.65192
#2	.0016	.0013	2.617	.0021	-2.0948	2.2954	.83377
#3	.0014	.0016	2.599	.0013	-.49001	1.8088	1.0436
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.60862	1.6838	-.88817	-.46945	4.4953	.27983	.0026
SDev	.89759	1.2818	.90609	1.77989	2.9641	.49778	.0009
%RSD	147.48	76.121	102.02	379.14	65.938	177.88	36.46
#1	-1.2075	2.7219	-.04048	-1.7905	6.5427	.81395	.0019
#2	-1.0418	2.0785	-.78094	-1.1724	5.8469	.19670	.0021
#3	.42340	.25118	-1.8431	1.5546	1.0963	-.17115	.0037
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

em	Sr4215	Ti	T11908	V	Zn
nits	ppm	ppm	ppb	ppm	ppm
Avge	-.0000	.0015	.97706	.0015	.0015
)ev	.0001	.0005	2.4156	.0011	.0001
:SD	320.1	34.79	247.23	72.48	5.906
	-.0002	.0011	-1.1466	.0009	.0017
	.0000	.0021	3.6050	.0027	.0015
#3	.0001	.0013	.47276	.0009	.0015
rors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

gh
Low

tStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
em	Y	--	--	--	--	--	--
vlen	371.030	--	--	--	--	--	--
ge	30753	--	--	--	--	--	--
SDev	39.24371	--	--	--	--	--	--
SD	.1276099	--	--	--	--	--	--
#1	30713	--	--	--	--	--	--
	30791	--	--	--	--	--	--
	30755	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: ICB Operator: CGZ
Run Time: 02/26/97 12:14:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.1771	.0062	.01958	-.0006	-.0001	.0003	.0220
SDev	1.1321	.0029	1.7492	.0012	.0002	.0001	.0029
%RSD	96.182	46.63	8933.7	205.0	166.1	48.29	13.21
#1	-.14181	.0083	1.6524	.0004	.0001	.0004	.0249
#2	-2.3860	.0029	-1.8264	-.0003	-.0003	.0002	.0191
#3	-1.0034	.0073	.23272	-.0019	-.0002	.0002	.0219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0001	-.0000	-.0008	.0096	.0081	.0037
SDev	.0001	.0009	.0012	.0008	.0019	.0169	.0111
%RSD	13.60	789.9	7721.	97.19	19.63	207.9	298.8
#1	.0005	.0007	.0011	.0001	.0118	.0242	.0148
#2	.0005	-.0011	-.0012	-.0014	.0089	-.0096	-.0074
#3	.0004	.0001	.0000	-.0010	.0082	.0098	.0038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0003	.0002	.0401	.0000	-7.5269	3.8636	.07089
SDev	.0005	.0003	.0039	.0009	7.6759	4.2940	.37680
%RSD	152.8	123.4	9.800	2597.	101.98	111.14	531.55
#1	.0008	.0006	.0446	.0008	.69306	-.57136	-.14998
#2	-.0002	.0001	.0373	-.0009	-8.7656	4.1609	-.14332
#3	.0004	.0001	.0384	.0001	-14.508	8.0012	.50596
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.32595	-.37771	6.6486	-3.8084	-10.950	4.9000	-.0005
SDev	1.70494	.85251	8.6745	2.7591	11.836	4.8495	.0032
%RSD	523.07	225.70	130.47	72.447	108.09	98.969	629.8
#1	-1.3897	.56259	-2.7474	-.71225	2.3596	-.33497	.0019
#2	-1.2287	-1.1001	8.3408	-6.0067	-14.914	5.7959	-.0041
#3	1.6406	-.59559	14.352	-4.7062	-20.295	9.2391	.0008
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Low	-60.000	-5.0000			
lem	Sr4215	Ti	Tl1908	V	Zn
nits	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0007	2.4838	.0006	.0005
Dev	.0003	.0002	1.0080	.0007	.0001
RSD	280.6	29.84	40.584	114.1	29.09
1	.0001	.0008	1.6484	.0001	.0007
2	-.0004	.0004	2.1995	.0014	.0004
#3	-.0000	.0008	3.6034	.0003	.0005
rrors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
igh			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

ntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	30268	--	--	--	--	--	--
SDev	27.29464	--	--	--	--	--	--
RSD	.0901780	--	--	--	--	--	--
#1	30247	--	--	--	--	--	--
2	30257	--	--	--	--	--	--
3	30299	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CRII Operator: CGZ
Run Time: 02/26/97 12:21:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.575	-.0029	20.770	.1974	-.0002	.0104	.0308
SDev	1.204	.0001	1.613	.0011	.0002	.0000	.0010
%RSD	6.1526	5.251	7.7683	.5769	120.9	.2903	3.345
#1	20.407	-.0027	19.655	.1967	-.0000	.0104	.0304
#2	20.123	-.0030	22.620	.1987	-.0001	.0104	.0320
#3	18.194	-.0029	20.034	.1968	-.0004	.0104	.0301

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	.1058	.0211	.0498	.0080	.0390	.0086
SDev	.0001	.0009	.0004	.0012	.0005	.0094	.0052
%RSD	1.109	.8898	2.118	2.426	6.565	23.98	61.01
#1	.0107	.1048	.0212	.0503	.0085	.0411	.0106
#2	.0109	.1063	.0214	.0506	.0080	.0472	.0124
#3	.0109	.1064	.0206	.0484	.0075	.0288	.0026

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0313	.0202	.0729	.0854	8.1488	6.1038	6.7851
SDev	.0003	.0006	.0022	.0006	3.0488	1.3220	.1473
%RSD	.9003	3.209	2.983	.6998	37.414	21.658	2.1703
#1	.0312	.0200	.0704	.0852	11.165	4.8503	6.9535
#2	.0316	.0209	.0740	.0861	8.2127	5.9761	6.7212
#3	.0311	.0197	.0743	.0850	5.0685	7.4850	6.6807

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	123.77	9.8220	122.03	124.64	11.986	8.7412	.1645
SDev	1.22	1.1889	4.22	.54	4.204	1.0721	.0022
%RSD	.98330	12.105	3.4596	.43245	35.078	12.265	1.310
#1	122.49	11.154	117.24	125.10	16.638	8.4152	.1620
#2	123.92	8.8670	123.65	124.05	10.863	7.8699	.1661
#3	124.91	9.4453	125.21	124.76	8.4567	9.9385	.1653

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0001	.0984	20.250	.0999	.0508
SDev	.0002	.0003	1.380	.0000	.0003
%RSD	213.8	.3527	6.8130	.0262	.6935
#1	.0001	.0980	19.424	.0999	.0504
#2	.0002	.0985	19.482	.0999	.0511
#3	-.0001	.0986	21.842	.1000	.0510

Method: PROFCLP2 Sample Name: ICSAI Operator: CGZ
Run Time: 02/26/97 12:40:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.7899	498.6	1.6799	.0035	.0084	.0025	554.1
SDev	.0780	1.1	1.4757	.0009	.0000	.0000	2.2
%RSD	2.7976	.2285	87.845	26.91	.5221	.6799	.3908
#1	2.7974	498.9	.09468	.0041	.0084	.0025	555.9
#2	2.7083	499.5	1.9312	.0024	.0084	.0025	554.5
#3	2.8639	497.3	3.0138	.0039	.0083	.0025	551.7
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.0033	.0005	-.0052	208.3	.0782	535.1
SDev	.0005	.0002	.0002	.0006	.9	.0029	1.9
%RSD	26.71	5.778	35.63	11.11	.4299	3.773	.3531
#1	-.0022	.0031	.0007	-.0059	209.1	.0793	536.7
#2	-.0019	.0035	.0004	-.0051	208.6	.0805	535.5
#3	-.0013	.0032	.0005	-.0048	207.3	.0749	533.0
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0143	.0011	.1183	.0031	7.7929	-1.1699	1.8151
SDev	.0004	.0010	.0011	.0009	2.6176	1.3204	.7033
%RSD	2.999	94.24	.9756	30.44	33.590	112.87	38.750
#1	.0139	.0019	.1196	.0025	10.233	-2.6658	1.6297
#2	.0142	-.0000	.1177	.0042	5.0278	-.67702	1.2230
#3	.0148	.0013	.1176	.0026	8.1185	-.16679	2.5925
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150			.0400			6.0000
Low	-.0150			-.0400			-6.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.65114	1.4600	1.9759	-1.9631	2.7706	.80533	-.0677
SDev	.64388	.8243	2.1035	.4697	3.1145	1.5410	.0022
%RSD	98.885	56.456	106.46	23.927	112.41	191.35	3.187
#1	-.49598	1.4409	3.4904	-2.4866	-.54067	2.4298	-.0701
#2	-.09902	2.2937	2.8633	-1.5784	5.6415	.62191	-.0662
#3	-1.3584	.64547	-.42591	-1.8244	3.2109	-.63573	-.0667
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.4159	-.0126	5.9859	-.0001	.0001		
SDev	.0029	.0001	1.9345	.0005	.0002		
%RSD	.6936	.9187	32.317	484.6	239.7		
#1	-.4182	-.0127	4.5787	-.0001	-.0001		
#2	-.4169	-.0127	5.1872	.0004	.0001		
#3	-.4127	-.0125	8.1919	-.0006	.0003		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30060	--	--	--	--	--	--
SDev	139.1857	--	--	--	--	--	--
%RSD	.4630335	--	--	--	--	--	--
#1	29932	--	--	--	--	--	--
#2	30039	--	--	--	--	--	--
#3	30208	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: ICSABI Operator: CGZ
Run Time: 02/26/97 12:47:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1026.7	513.9	1000.3	.9910	.5021	.5147	572.3
SDev	1.3	1.1	1.4	.0008	.0006	.0009	1.3
%RSD	.12886	.2104	.13705	.0775	.1220	.1742	.2249
#1	1028.2	515.1	1000.6	.9902	.5028	.5150	572.3
#2	1025.8	513.0	1001.5	.9918	.5016	.5155	573.6
#3	1026.0	513.6	998.77	.9911	.5019	.5137	571.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
Low	800.00	400.0	800.00	.8000	.4000	.4000	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9627	.4765	.4880	.5005	215.1	.0067	551.4
SDev	.0023	.0013	.0013	.0015	.5	.0044	1.0
%RSD	.2378	.2651	.2600	.3051	.2330	66.13	.1760
#1	.9643	.4759	.4873	.5020	215.5	.0036	551.8
#2	.9637	.4779	.4894	.4990	215.3	.0118	552.1
#3	.9601	.4756	.4872	.5006	214.5	.0048	550.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1.200	.6000	.6000	.6000	240.0		600.0
Low	.8000	.4000	.4000	.4000	160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5022	.9718	.0533	.9445	935.43	927.13	929.89
SDev	.0002	.0006	.0021	.0016	3.81	5.33	4.48
%RSD	.0426	.0622	3.949	.1727	.40777	.57530	.48219
#1	.5022	.9724	.0524	.9452	936.52	923.56	927.88
#2	.5024	.9717	.0557	.9456	938.57	933.26	935.03
#3	.5019	.9712	.0518	.9426	931.18	924.57	926.77
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.6000			1.200			1200.0
Low	.4000			.8000			800.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-6.7633	975.49	.58829	-10.434	970.85	977.81	-.0717
SDev	1.8194	4.53	2.4185	3.665	9.05	8.34	.0024
%RSD	26.902	.46467	411.11	35.127	.93197	.85336	3.401
#1	-4.7762	976.16	-1.8875	-6.2187	981.14	973.67	-.0715
#2	-8.3476	979.66	.70722	-12.869	964.12	987.41	-.0742
#3	-7.1661	970.66	2.9451	-12.215	967.31	972.34	-.0694
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		1200.0					

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Low		800.00			
Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.4284	-.0157	924.15	.4801	1.026
SDev	.0018	.0001	1.08	.0012	.002
%RSD	.4276	.7260	.11678	.2438	.1969
#1	-.4278	-.0158	925.00	.4806	1.026
#2	-.4305	-.0156	922.94	.4808	1.027
#3	-.4270	-.0156	924.51	.4787	1.024
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			1200.0	.6000	1.200
Low			800.00	.4000	.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29367	--	--	--	--	--	--
SDev	71.53062	--	--	--	--	--	--
%RSD	.2435743	--	--	--	--	--	--
#1	29347	--	--	--	--	--	--
#2	29308	--	--	--	--	--	--
#3	29447	--	--	--	--	--	--

ethod: PROFCLP2 Sample Name: CCV1 Operator: CGZ
Run Time: 02/26/97 12:55:00
omment:
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	992.89	50.84	497.42	2.519	2.462	2.579	54.01
SDev	.96	.08	1.65	.006	.002	.001	.04
%RSD	.09627	.1609	.33115	.2292	.0730	.0578	.0745
#1	993.66	50.93	498.71	2.513	2.464	2.577	53.97
#2	993.19	50.78	495.57	2.519	2.461	2.580	54.03
#3	991.82	50.81	497.99	2.525	2.461	2.580	54.05
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.566	2.541	2.543	2.446	51.44	80.10	50.74
SDev	.000	.003	.001	.002	.04	.02	.02
%RSD	.0096	.1002	.0444	.0837	.0747	.0227	.0350
#1	2.566	2.538	2.542	2.448	51.48	80.12	50.72
#2	2.566	2.543	2.543	2.444	51.43	80.08	50.75
#3	2.567	2.542	2.544	2.446	51.41	80.11	50.74
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.519	2.491	80.43	2.534	487.34	486.93	487.07
SDev	.002	.001	.11	.002	1.11	1.76	1.01
%RSD	.0670	.0514	.1390	.0626	.22858	.36214	.20660
#1	2.517	2.492	80.33	2.533	488.24	487.29	487.61
#2	2.519	2.492	80.42	2.533	487.69	485.02	485.91
#3	2.520	2.489	80.55	2.536	486.10	488.49	487.69
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1022.7	495.45	1029.7	1019.2	492.56	496.89	5.144
SDev	4.2	.93	2.9	4.9	1.79	.96	.016
%RSD	.41397	.18842	.28374	.48027	.36432	.19236	.3150
#1	1021.2	495.63	1028.9	1017.3	491.45	497.72	5.126
#2	1019.5	494.44	1027.3	1015.6	491.61	495.85	5.150
#3	1027.5	496.27	1033.0	1024.8	494.63	497.09	5.157
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

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Low	900.00	450.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0899	2.484	489.75	2.483	2.596		
SDev	.0002	.001	.40	.001	.001		
%RSD	.1760	.0259	.08070	.0310	.0548		
#1	-.0898	2.484	489.35	2.483	2.594		
#2	-.0900	2.485	490.14	2.483	2.597		
#3	-.0897	2.485	489.76	2.484	2.597		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30752	--	--	--	--	--	--
SDev	42.09203	--	--	--	--	--	--
%RSD	.1368766	--	--	--	--	--	--
#1	30728	--	--	--	--	--	--
#2	30800	--	--	--	--	--	--
#3	30727	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCVL1 Operator: CGZ
Run Time: 02/26/97 13:02:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.1324	.0970	.43811	.0045	.0005	.0012	.1274
SDev	.3416	.0198	.74857	.0020	.0003	.0003	.0273
%RSD	30.164	20.37	170.86	44.48	55.85	21.99	21.44
#1	1.4424	.1181	1.2989	.0063	.0009	.0015	.1557
#2	1.1886	.0939	.07599	.0047	.0004	.0012	.1254
#3	.76623	.0790	-.06054	.0024	.0003	.0010	.1012
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0017	.0016	.0010	2.547	.0579	.1086
SDev	.0002	.0006	.0006	.0002	.003	.0129	.0287
%RSD	12.49	34.31	40.46	20.40	.1117	22.22	26.41
#1	.0017	.0024	.0023	.0011	2.550	.0720	.1402
#2	.0014	.0013	.0011	.0010	2.547	.0467	.1012
#3	.0014	.0015	.0013	.0008	2.544	.0552	.0843
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0013	.0013	2.688	.0021	-3.4307	1.7454	.02212
SDev	.0004	.0006	.008	.0005	2.9414	.5777	.74421
%RSD	33.13	45.82	.2980	25.05	85.738	33.101	3365.1
#1	.0018	.0020	2.679	.0017	-.22621	1.1333	.68088
#2	.0009	.0009	2.695	.0019	-4.0580	2.2812	.17060
#3	.0011	.0010	2.689	.0027	-6.0078	1.8217	-.78514
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.81385	3.3877	3.3501	-.45276	2.3724	3.8942	.0010
SDev	1.0477	1.7033	2.4022	2.63533	2.2010	3.3543	.0032
%RSD	128.74	50.279	71.705	582.06	92.778	86.136	325.8
#1	1.6146	2.3717	.64026	2.1006	4.8905	1.1138	.0033
#2	1.1989	2.4373	4.1919	-.29584	1.4112	2.9492	-.0026
#3	-.37190	5.3541	5.2180	-3.1630	.81540	7.6197	.0022
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0002	.0016	3.0572	.0017	.0020
SDev	.0002	.0000	1.8327	.0002	.0003
%RSD	70.76	2.238	59.946	11.46	14.29
#1	-.0002	.0016	1.1159	.0015	.0023
#2	-.0004	.0016	3.2984	.0018	.0018
#3	-.0001	.0017	4.7573	.0019	.0018
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31072	--	--	--	--	--	--
SDev	67.03971	--	--	--	--	--	--
%RSD	.2157574	--	--	--	--	--	--
#1	31017	--	--	--	--	--	--
#2	31052	--	--	--	--	--	--
#3	31146	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCB1 Operator: CGZ
Run Time: 02/26/97 13:09:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.21707	.0245	.94709	.0014	-.0005	.0002	.0460
SDev	.43500	.0046	2.3779	.0006	.0002	.0001	.0078
%RSD	200.40	18.66	251.07	43.57	44.47	44.25	16.93
#1	.03408	.0244	.95130	.0020	-.0003	.0004	.0549
#2	-.71937	.0291	-1.4329	.0014	-.0007	.0002	.0427
#3	.03409	.0199	3.3229	.0008	-.0004	.0002	.0404
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0006	.0004	-.0003	.0183	.0130	.0346
SDev	.0002	.0013	.0013	.0003	.0032	.0175	.0127
%RSD	36.53	214.5	322.6	112.8	17.43	134.6	36.70
#1	.0004	.0007	.0005	.0001	.0211	.0144	.0438
#2	.0008	-.0007	-.0009	-.0005	.0189	-.0052	.0201
#3	.0007	.0019	.0016	-.0005	.0149	.0298	.0399
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0005	.0002	.0548	.0013	.25484	.06024	.12539
SDev	.0006	.0006	.0033	.0015	4.0164	2.7037	.46654
%RSD	116.7	288.3	6.041	115.8	1576.1	4488.5	372.06
#1	.0006	.0002	.0510	.0016	4.7891	-2.9814	-.39347
#2	-.0001	-.0004	.0564	-.0003	-1.1685	.97165	.25937
#3	.0010	.0008	.0569	.0027	-2.8561	2.1905	.51028
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.43691	.67622	-.70685	-.30253	2.9130	-.44089	.0005
SDev	.61154	1.7868	5.31170	3.26445	5.9799	5.23459	.0037
%RSD	139.97	264.23	751.46	1079.1	205.28	1187.3	801.0
#1	-.15328	-1.2721	-6.7227	3.1261	9.1308	-6.4661	.0028
#2	-.01869	2.2383	1.2658	-.66035	2.4049	2.1548	-.0038
#3	-1.1388	1.0624	3.3363	-3.3733	-2.7966	2.9886	.0024
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0000	.0006	1.7300	.0002	.0005		
SDev	.0003	.0004	1.8381	.0005	.0002		
%RSD	1457.	73.57	106.25	239.5	43.01		
#1	-.0000	.0001	-.39241	-.0003	.0005		
#2	-.0003	.0008	2.7768	.0001	.0003		
#3	.0003	.0009	2.8056	.0008	.0007		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31308	--	--	--	--	--	--
SDev	89.39015	--	--	--	--	--	--
%RSD	.2855161	--	--	--	--	--	--
#1	31326	--	--	--	--	--	--
#2	31211	--	--	--	--	--	--
#3	31387	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: PBS1 Operator: CGZ
Run Time: 02/26/97 13:26:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.4526	-.0044	-1.3065	.0002	-.0010	-.0002	.0205
SDev	2.6728	.0121	4.2069	.0009	.0004	.0001	.0057
%RSD	184.01	276.8	321.99	386.0	34.83	65.96	27.98
#1	.93274	.0095	2.8877	-.0005	-.0007	-.0001	.0257
#2	-4.3413	-.0120	-5.5260	-.0000	-.0014	-.0004	.0143
#3	-.94916	-.0106	-1.2813	.0013	-.0009	-.0002	.0214
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0004	.0019	-.0021	.0054	.0111	.0052
SDev	.0004	.0021	.0024	.0019	.0025	.0324	.0231
%RSD	163.9	545.5	131.5	88.61	45.82	291.2	444.8
#1	.0008	.0021	.0041	-.0006	.0082	.0391	.0253
#2	.0000	-.0019	-.0008	-.0042	.0038	-.0244	-.0201
#3	.0000	.0010	.0022	-.0015	.0041	.0187	.0104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0002	.0002	.0886	.0017	-2.8326	2.9901	1.0515
SDev	.0010	.0011	.0104	.0026	5.3828	2.4035	.3740
%RSD	453.5	512.7	11.80	150.8	190.03	80.383	35.567
#1	.0011	.0011	.0999	.0041	-4.9999	3.4478	.63497
#2	-.0009	-.0010	.0793	-.0010	3.2960	.39065	1.3585
#3	.0005	.0006	.0864	.0021	-6.7939	5.1319	1.1610
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1.0251	1.4963	6.3147	-1.6161	-10.598	7.5338	.0274
SDev	.9868	2.1536	5.9467	4.1639	6.588	6.3492	.0071
%RSD	96.266	143.93	94.173	257.65	62.164	84.277	26.10
#1	1.5783	1.0640	8.0696	-1.6628	-12.708	7.9391	.0338
#2	1.6111	-.40833	-.31202	2.5709	-3.2131	.99158	.0197
#3	-.11423	3.8332	11.186	-5.7565	-15.872	13.671	.0286
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	.0000	.0005	-.55780	.0015	.0057		
SDev	.0005	.0007	3.22270	.0015	.0005		
%RSD	1515.	134.5	577.75	105.2	8.927		
#1	.0005	.0013	3.1478	.0019	.0062		
#2	-.0006	-.0000	-2.7062	-.0003	.0052		
#3	.0002	.0003	-2.1150	.0027	.0058		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31832	--	--	--	--	--	--
SDev	194.1457	--	--	--	--	--	--
%RSD	.6099049	--	--	--	--	--	--
#1	32020	--	--	--	--	--	--
#2	31633	--	--	--	--	--	--
#3	31843	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: PBS2 Operator: CGZ
Run Time: 02/26/97 13:34:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.54803	.0083	-.83357	-.0012	-.0012	-.0003	.0792
SDev	2.0832	.0195	2.98351	.0010	.0002	.0001	.0023
%RSD	380.12	235.1	357.92	79.74	19.06	25.86	2.958
#1	2.9491	.0086	-3.6305	-.0001	-.0014	-.0003	.0781
#2	-.52733	.0277	2.3068	-.0020	-.0010	-.0002	.0819
#3	-.77772	-.0114	-1.1770	-.0015	-.0013	-.0002	.0777
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0004	.0009	-.0008	.0059	.0074	.0071
SDev	.0007	.0009	.0010	.0015	.0041	.0160	.0104
%RSD	86.28	221.9	109.4	189.7	68.99	215.4	146.9
#1	.0008	-.0002	.0002	.0009	.0057	-.0061	.0000
#2	.0014	.0014	.0021	-.0019	.0101	.0251	.0191
#3	.0001	.0000	.0005	-.0014	.0020	.0032	.0022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0002	.0002	.1540	.0011	-.50409	1.4782	.81846
SDev	.0005	.0008	.0158	.0007	7.48873	3.2475	.36334
%RSD	291.3	452.8	10.28	63.19	1485.6	219.69	44.394
#1	-.0003	-.0005	.1553	.0005	-7.4381	4.6297	.61147
#2	.0007	.0012	.1691	.0018	7.4374	-1.8576	1.2380
#3	.0001	-.0001	.1376	.0010	-1.5115	1.6626	.60591
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.5728	1.1235	1.4948	-3.1047	-1.1696	2.2680	.0155
SDev	1.3427	.4415	6.6648	3.5885	8.4016	3.9004	.0026
%RSD	85.366	39.299	445.88	115.58	718.31	171.98	16.84
#1	-2.4303	1.3146	7.1017	-7.1896	-7.0727	5.5016	.0133
#2	-2.2627	1.4373	-5.8740	-.46021	8.4491	-2.0638	.0184
#3	-.02549	.61861	3.2565	-1.6644	-4.8853	3.3661	.0148
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0001	.0013	2.8210	.0011	.0041		
SDev	.0003	.0011	4.9963	.0021	.0001		
%RSD	423.2	90.01	177.11	196.5	3.652		
#1	-.0003	.0012	2.9405	.0031	.0040		
#2	.0003	.0024	7.7564	-.0011	.0043		
#3	-.0002	.0002	-2.2340	.0013	.0041		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32267	--	--	--	--	--	--
SDev	154.2749	--	--	--	--	--	--
%RSD	.4781149	--	--	--	--	--	--
#1	32276	--	--	--	--	--	--
#2	32417	--	--	--	--	--	--
#3	32109	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: LCSS1 Operator: CGZ
Run Time: 02/26/97 13:41:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	624.18	53.80	537.80	.6603	2.232	.7917	24.73
SDev	1.61	.07	3.09	.0010	.005	.0023	.11
%RSD	.25841	.1356	.57441	.1554	.2403	.2927	.4284
#1	624.30	53.88	541.17	.6608	2.228	.7943	24.85
#2	622.51	53.73	537.12	.6592	2.232	.7909	24.70
#3	625.73	53.80	535.11	.6611	2.238	.7900	24.65

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6744	.9005	.6605	.4798	127.8	17.86	14.94
SDev	.0039	.0029	.0020	.0010	.6	.01	.08
%RSD	.5731	.3249	.3024	.2113	.4668	.0700	.5357
#1	.6787	.9038	.6628	.4794	128.5	17.85	15.03
#2	.6732	.8996	.6591	.4791	127.6	17.87	14.92
#3	.6713	.8981	.6597	.4810	127.4	17.85	14.88

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.041	1.299	3.866	1.442	965.23	970.96	969.05
SDev	.005	.004	.012	.008	4.17	7.28	5.86
%RSD	.2213	.3220	.3090	.5602	.43217	.74932	.60498
#1	2.046	1.303	3.853	1.450	970.03	976.99	974.67
#2	2.040	1.298	3.870	1.440	962.49	973.01	969.51
#3	2.038	1.295	3.876	1.435	963.16	962.88	962.97

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	331.47	744.28	341.51	326.46	722.35	755.23	1.685
SDev	1.72	2.72	2.91	3.71	3.41	5.04	.009
%RSD	.51796	.36556	.85351	1.1352	.47274	.66795	.5337
#1	332.72	747.13	342.04	328.07	722.35	759.49	1.695
#2	329.51	744.01	344.11	322.22	718.94	756.52	1.681
#3	332.18	741.70	338.36	329.10	725.77	749.66	1.679

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.5873	2.758	455.06	1.252	.9787
SDev	.0011	.001	2.04	.002	.0025
%RSD	.1960	.0522	.44869	.1399	.2526
#1	.5861	2.759	457.32	1.254	.9815
#2	.5873	2.756	454.51	1.252	.9776
#3	.5884	2.758	453.35	1.250	.9769

Method: PROFCLP2 Sample Name: LCSS2 Operator: CGZ
Run Time: 02/26/97 13:48:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	335.79	32.89	296.98	.3732	1.179	.4238	13.96
SDev	.60	.10	1.48	.0004	.001	.0006	.03
%RSD	.17848	.3060	.49895	.1217	.1163	.1537	.1875
#1	336.09	32.85	295.90	.3727	1.178	.4243	13.97
#2	336.18	33.00	296.37	.3733	1.180	.4241	13.97
#3	335.10	32.81	298.67	.3736	1.178	.4231	13.93

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3656	.4879	.3576	.2552	74.18	10.35	8.573
SDev	.0007	.0009	.0008	.0004	.19	.02	.025
%RSD	.1840	.1955	.2281	.1509	.2522	.2254	.2893
#1	.3659	.4889	.3576	.2550	74.15	10.32	8.584
#2	.3661	.4876	.3584	.2556	74.38	10.36	8.590
#3	.3648	.4871	.3568	.2549	74.02	10.36	8.545

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.142	.6792	2.123	.7782	525.22	526.79	526.27
SDev	.001	.0015	.005	.0024	2.75	2.68	2.06
%RSD	.1237	.2157	.2565	.3112	.52361	.50947	.39173
#1	1.142	.6802	2.126	.7802	526.86	529.54	528.65
#2	1.143	.6798	2.116	.7791	526.75	524.18	525.04
#3	1.140	.6775	2.125	.7755	522.04	526.66	525.12

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	142.20	417.64	146.81	139.90	408.31	422.30	.8932
SDev	1.33	1.84	.92	2.26	4.83	.46	.0005
%RSD	.93718	.44073	.62561	1.6144	1.1836	.10913	.0579
#1	141.87	416.93	147.82	138.91	405.84	422.47	.8926
#2	143.66	419.73	146.03	142.48	413.87	422.65	.8935
#3	141.06	416.26	146.57	138.30	405.20	421.78	.8935

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.3103	1.646	246.73	.6766	.5505
SDev	.0002	.002	1.49	.0012	.0012
%RSD	.0640	.0961	.60217	.1722	.2199
#1	.3100	1.646	247.80	.6773	.5513
#2	.3104	1.648	247.37	.6772	.5510
#3	.3103	1.645	245.04	.6752	.5491

Method: PROFCLP2 Sample Name: XX0012 Operator: CGZ
Run Time: 02/26/97 13:55:58
Comment: 9702234 2127197 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-3.0168	14.00	139.72	.2801	2.415	.0011	32.39
SDev	.3035	.03	1.34	.0015	.004	.0001	.04
%RSD	10.060	.1847	.95912	.5421	.1524	4.322	.1144
#1	-2.7213	14.02	138.88	.2795	2.411	.0012	32.39
#2	-3.3277	13.97	139.02	.2791	2.414	.0011	32.36
#3	-3.0016	14.01	141.27	.2819	2.419	.0011	32.43

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	.0069	.0338	1.269	12.45	3.549	5.543
SDev	.0001	.0001	.0004	.003	.04	.001	.015
%RSD	3.456	1.191	1.251	.2235	.2956	.0276	.2728
#1	.0024	.0070	.0333	1.266	12.48	3.550	5.539
#2	.0024	.0069	.0342	1.269	12.45	3.550	5.530
#3	.0023	.0068	.0339	1.272	12.41	3.548	5.559

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.669	.0103	2.326	.4537	105.19	128.96	121.04
SDev	.002	.0001	.011	.0019	1.84	.66	1.04
%RSD	.0928	.6833	.4577	.4284	1.7469	.51426	.85887
#1	1.669	.0102	2.314	.4560	104.16	128.39	120.32
#2	1.667	.0103	2.330	.4524	104.09	128.80	120.57
#3	1.671	.0102	2.334	.4528	107.31	129.69	122.23

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-8.7100	-2.1567	-14.416	-5.8619	-30.764	12.125	.0956
SDev	1.5321	.9128	1.208	2.8523	.225	1.358	.0008
%RSD	17.590	42.325	8.3768	48.658	.73152	11.203	.8078
#1	-7.9868	-1.2065	-14.378	-4.7963	-30.622	13.479	.0952
#2	-10.470	-3.0269	-13.227	-9.0936	-30.647	10.762	.0951
#3	-7.6734	-2.2367	-15.641	-3.6958	-31.024	12.135	.0965

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1755	.3010	2.3264	.0132	.6102
SDev	.0001	.0003	.7071	.0003	.0011
%RSD	.0800	.0850	30.396	2.346	.1813
#1	.1754	.3010	1.8691	.0135	.6099
#2	.1757	.3008	3.1409	.0134	.6093
#3	.1755	.3013	1.9693	.0129	.6114

Method: PROFCLP2 Sample Name: XX0012D Operator: CGZ
Run Time: 02/26/97 14:03:14
Comment: 97022340 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.8924	13.75	146.37	.2915	2.523	.0009	36.51
SDev	.1292	.03	1.16	.0001	.003	.0000	.04
%RSD	6.8261	.2431	.79311	.0224	.1034	2.538	.1036
#1	-2.0328	13.79	146.54	.2916	2.526	.0009	36.55
#2	-1.7786	13.75	147.44	.2915	2.523	.0009	36.50
#3	-1.8656	13.72	145.13	.2915	2.521	.0008	36.48

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0069	.0350	1.383	14.28	3.457	5.665
SDev	.0000	.0003	.0003	.001	.04	.003	.007
%RSD	2.004	3.980	.7754	.1056	.2546	.0744	.1240
#1	.0022	.0067	.0348	1.384	14.32	3.457	5.673
#2	.0022	.0072	.0349	1.383	14.24	3.454	5.663
#3	.0023	.0068	.0353	1.381	14.28	3.459	5.659

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.905	.0103	2.230	.5028	113.03	140.18	131.14
SDev	.002	.0001	.006	.0017	2.04	1.25	1.37
%RSD	.0992	1.432	.2913	.3342	1.8009	.89263	1.0471
#1	1.907	.0101	2.222	.5045	115.36	141.24	132.62
#2	1.905	.0103	2.233	.5027	112.12	138.80	129.91
#3	1.904	.0104	2.234	.5011	111.61	140.50	130.88

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-9.3147	-2.3665	-12.383	-7.7835	-30.220	11.539	.1087
SDev	.3029	.9188	1.590	.4806	1.668	1.807	.0022
%RSD	3.2520	38.826	12.844	6.1743	5.5201	15.660	1.977
#1	-8.9706	-3.3168	-11.043	-7.9363	-28.894	9.4524	.1081
#2	-9.5409	-1.4828	-14.140	-7.2450	-29.672	12.590	.1111
#3	-9.4327	-2.2998	-11.965	-8.1690	-32.093	12.574	.1070

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1857	.0918	1.7724	.0130	.6602
SDev	.0002	.0005	.3213	.0003	.0009
%RSD	.1261	.5899	18.126	2.663	.1443
#1	.1859	.0923	1.6032	.0130	.6610
#2	.1858	.0919	2.1429	.0126	.6605
#3	.1854	.0912	1.5710	.0133	.6591

Method: PROFCLP2 Sample Name: XX0012S Operator: CGZ
Run Time: 02/26/97 14:10:31
Comment: 9702234S 2/27/97
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	44.223	15.98	1958.0	.3056	4.620	.0490	36.86
SDev	.121	.04	1.3	.0008	.005	.0000	.03
%RSD	.27430	.2299	.06481	.2600	.1036	.0683	.0806
#1	44.163	16.02	1958.6	.3062	4.625	.0490	36.88
#2	44.362	15.95	1956.5	.3047	4.616	.0490	36.83
#3	44.143	15.97	1958.8	.3059	4.620	.0490	36.87

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0495	.4831	.2265	1.732	14.79	3.565	5.651
SDev	.0001	.0002	.0001	.001	.03	.006	.004
%RSD	.2817	.0444	.0504	.0856	.1730	.1587	.0644
#1	.0497	.4833	.2266	1.732	14.82	3.567	5.652
#2	.0494	.4830	.2264	1.730	14.78	3.558	5.647
#3	.0494	.4830	.2265	1.733	14.78	3.569	5.654

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.439	.0992	2.271	.9874	573.89	598.70	590.44
SDev	.002	.0010	.005	.0027	1.71	2.22	.92
%RSD	.0756	1.051	.2128	.2738	.29792	.37048	.15542
#1	2.441	.1004	2.267	.9905	571.92	601.26	591.49
#2	2.437	.0985	2.270	.9859	574.74	597.31	589.79
#3	2.440	.0986	2.276	.9857	575.00	597.54	590.03

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	348.06	1731.9	346.36	348.90	1688.2	1753.7	.1010
SDev	1.68	7.2	2.93	1.08	5.0	8.4	.0026
%RSD	.48370	.41703	.84709	.31012	.29360	.47845	2.526
#1	349.49	1731.8	349.11	349.68	1687.2	1754.0	.0996
#2	346.20	1724.7	343.27	347.67	1683.8	1745.2	.1039
#3	348.47	1739.2	346.71	349.36	1693.5	1762.0	.0994

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1998	.0715	1770.7	.4887	1.187
SDev	.0001	.0002	4.8	.0006	.001
%RSD	.0491	.2273	.26965	.1301	.0990
#1	.1999	.0714	1774.8	.4893	1.187
#2	.1998	.0717	1765.5	.4881	1.185
#3	.1997	.0716	1771.7	.4887	1.188

M 0247

Method: PROFCLP2 Sample Name: XX0013 Operator: CGZ
Run Time: 02/26/97 14:17:48
Comment: 9702235 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-2.0599	22.78	127.60	.2713	2.312	.0012	80.94
SDev	.2918	.06	.42	.0002	.003	.0000	.10
%RSD	14.167	.2525	.33265	.0878	.1463	.9387	.1280
#1	-1.7229	22.73	128.08	.2710	2.308	.0011	80.89
#2	-2.2252	22.77	127.28	.2713	2.312	.0011	80.88
#3	-2.2315	22.85	127.45	.2715	2.315	.0012	81.06

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0152	.0481	1.156	33.82	8.944	11.80
SDev	.0001	.0002	.0001	.002	.05	.008	.01
%RSD	5.693	1.367	.3047	.1484	.1377	.0878	.0801
#1	.0022	.0154	.0483	1.154	33.79	8.944	11.80
#2	.0023	.0150	.0480	1.157	33.79	8.936	11.79
#3	.0020	.0151	.0480	1.157	33.87	8.952	11.81

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.572	.0098	4.016	.4207	160.21	180.74	173.91
SDev	.002	.0006	.006	.0026	1.72	.56	.42
%RSD	.0786	6.095	.1464	.6111	1.0711	.30780	.24324
#1	2.571	.0095	4.009	.4203	162.12	180.20	174.18
#2	2.570	.0104	4.018	.4183	158.80	180.72	173.42
#3	2.574	.0093	4.020	.4234	159.71	181.31	174.12

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-4.4368	.31119	-2.8448	-5.2320	-22.287	11.593	.0822
SDev	.5502	.40415	.5935	.9949	2.041	.492	.0016
%RSD	12.400	129.87	20.864	19.016	9.1580	4.2404	1.909
#1	-5.0498	.08344	-2.3844	-6.3808	-24.058	12.136	.0839
#2	-4.2748	.77781	-3.5147	-4.6547	-20.055	11.178	.0809
#3	-3.9857	.07231	-2.6352	-4.6604	-22.747	11.464	.0817

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2206	.1244	4.5917	.0290	.7621
SDev	.0002	.0001	2.0961	.0002	.0010
%RSD	.0826	.0852	45.650	.6051	.1271
#1	.2204	.1243	6.8585	.0289	.7613
#2	.2205	.1245	4.1933	.0292	.7618
#3	.2208	.1245	2.7234	.0289	.7632

Method: PROFCLP2 Sample Name: XX0014 Operator: CGZ
Run Time: 02/26/97 14:25:05
Comment: 9702236 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.1764	2.065	-.38265	.0144	.1352	-.0001	11.01
SDev	.1285	.002	1.48634	.0004	.0006	.0000	.04
%RSD	10.925	.0931	388.43	2.964	.4034	5.259	.3255
#1	1.3176	2.065	-1.8201	.0146	.1358	-.0001	11.05
#2	1.0661	2.063	1.1481	.0147	.1349	-.0001	11.01
#3	1.1456	2.067	-.47595	.0139	.1348	-.0001	10.98

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0006	.0067	.1317	1.736	2.162	1.793
SDev	.0001	.0002	.0001	.0007	.007	.005	.006
%RSD	13.79	36.96	.7694	.4979	.4164	.2205	.3579
#1	.0006	.0009	.0067	.1321	1.743	2.159	1.801
#2	.0007	.0005	.0066	.1309	1.735	2.159	1.791
#3	.0005	.0004	.0067	.1320	1.729	2.167	1.788

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1767	.0020	1.296	.0069	7.9187	8.9346	8.5966
SDev	.0008	.0004	.006	.0008	2.1106	.5494	.5076
%RSD	.4596	17.62	.4918	11.25	26.654	6.1493	5.9049
#1	.1775	.0024	1.297	.0078	6.3600	9.5652	8.4982
#2	.1767	.0018	1.290	.0062	10.321	8.5595	9.1462
#3	.1759	.0018	1.302	.0067	7.0755	8.6791	8.1454

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1.7823	3.0800	4.6737	.33838	-7.2422	8.2329	.0419
SDev	1.2344	.7153	2.6734	2.4155	3.7324	2.0267	.0012
%RSD	69.257	23.225	57.200	713.85	51.537	24.617	2.864
#1	2.0419	2.6264	7.6128	-.73967	-11.119	9.4883	.0406
#2	2.8662	2.7089	2.3867	3.1052	-3.6731	5.8948	.0421
#3	.43876	3.9046	4.0217	-1.3504	-6.9346	9.3157	.0430

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0616	.0317	.05105	.0019	.1297
SDev	.0002	.0007	.66029	.0002	.0005
%RSD	.2646	2.188	1293.5	8.335	.3634
#1	.0618	.0323	.24537	.0020	.1302
#2	.0616	.0309	.59237	.0018	.1296
#3	.0614	.0317	-.68460	.0018	.1292

Method: PROFCLP2 Sample Name: XX0013L Operator: CGZ
Run Time: 02/26/97 14:32:22
Comment: 9702235L 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.89572	4.712	25.432	.0577	.4657	.0001	16.91
SDev	.40354	.016	.579	.0004	.0009	.0000	.05
%RSD	45.051	.3392	2.2762	.7044	.1980	9.783	.2910
#1	-.84254	4.714	26.050	.0581	.4664	.0001	16.96
#2	-1.3232	4.726	25.344	.0573	.4660	.0001	16.90
#3	-.52142	4.695	24.902	.0576	.4647	.0001	16.86

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0029	.0093	.2335	6.947	1.748	2.547
SDev	.0001	.0003	.0003	.0007	.020	.007	.011
%RSD	9.807	10.49	2.764	.3143	.2815	.3893	.4396
#1	.0006	.0031	.0096	.2343	6.966	1.755	2.560
#2	.0007	.0029	.0093	.2335	6.949	1.741	2.544
#3	.0006	.0025	.0091	.2328	6.927	1.747	2.538

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5318	.0017	.8520	.0891	33.694	38.935	37.190
SDev	.0015	.0004	.0041	.0008	.146	1.464	1.017
%RSD	.2911	20.95	.4799	.8889	.43385	3.7594	2.7350
#1	.5335	.0021	.8563	.0896	33.754	38.553	36.955
#2	.5315	.0016	.8482	.0895	33.801	40.551	38.304
#3	.5304	.0014	.8515	.0882	33.528	37.700	36.311

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.67523	-1.0950	-.60913	-.70859	-3.2385	-.02513	.0156
SDev	1.30553	.8836	1.08726	1.73937	4.4604	1.97892	.0014
%RSD	193.35	80.697	178.49	245.47	137.73	7873.5	9.213
#1	.79889	-.08848	.25133	1.0719	-1.5731	.65237	.0173
#2	-1.6855	-1.7431	-.24764	-2.4037	-8.2920	1.5261	.0150
#3	-1.1391	-1.4533	-1.8311	-.79397	.14955	-2.2538	.0146

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0370	.0269	.87681	.0065	.1618
SDev	.0001	.0005	.38723	.0003	.0003
%RSD	.2305	1.788	44.163	4.587	.2063
#1	.0370	.0266	1.0677	.0068	.1621
#2	.0371	.0275	.43119	.0063	.1617
#3	.0370	.0267	1.1315	.0063	.1615

Method: PROFCLP2 Sample Name: CCV2 Operator: CGZ
Run Time: 02/26/97 14:39:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1015.8	52.28	503.23	2.582	2.520	2.604	54.45
SDev	.5	.05	.72	.001	.002	.005	.13
%RSD	.05272	.1012	.14251	.0544	.0743	.1936	.2468
#1	1015.5	52.22	503.54	2.580	2.520	2.608	54.53
#2	1016.4	52.30	503.74	2.582	2.519	2.607	54.54
#3	1015.5	52.32	502.41	2.583	2.522	2.599	54.30
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.583	2.570	2.568	2.512	51.82	82.27	51.06
SDev	.007	.005	.004	.003	.13	.18	.12
%RSD	.2776	.1969	.1618	.1184	.2440	.2132	.2342
#1	2.588	2.572	2.571	2.510	51.87	82.07	51.12
#2	2.588	2.573	2.570	2.512	51.91	82.34	51.14
#3	2.575	2.564	2.563	2.516	51.67	82.40	50.93
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.547	2.518	83.10	2.561	489.35	492.19	491.25
SDev	.004	.003	.22	.008	2.46	2.85	1.23
%RSD	.1373	.1314	.2615	.3072	.50355	.57864	.25062
#1	2.549	2.520	82.88	2.564	489.85	493.18	492.07
#2	2.550	2.520	83.32	2.567	486.68	494.42	491.84
#3	2.543	2.514	83.09	2.552	491.53	488.98	489.83
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1044.0	502.66	1057.0	1037.5	499.31	504.33	5.196
SDev	2.4	3.72	4.9	3.0	6.73	3.54	.018
%RSD	.22819	.74052	.46589	.29388	1.3475	.70182	.3487
#1	1045.9	506.82	1055.6	1041.0	506.48	506.99	5.205
#2	1044.8	501.51	1062.5	1036.0	493.13	505.69	5.209
#3	1041.3	499.65	1052.9	1035.5	498.31	500.32	5.176
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

Low	900.00	450.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0920	2.525	494.04	2.517	2.637		
SDev	.0002	.001	.71	.003	.004		
%RSD	.1814	.0259	.14432	.1237	.1539		
#1	-.0919	2.525	493.22	2.519	2.639		
#2	-.0920	2.525	494.50	2.519	2.640		
#3	-.0922	2.524	494.40	2.513	2.633		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30960	--	--	--	--	--	--
SDev	14.31173	--	--	--	--	--	--
%RSD	.0462272	--	--	--	--	--	--
#1	30956	--	--	--	--	--	--
#2	30948	--	--	--	--	--	--
#3	30975	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCVL2 Operator: CGZ
Run Time: 02/26/97 14:46:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.14944	.0236	1.6604	.0040	.0009	.0013	.0535
SDev	.20785	.0066	1.7341	.0014	.0004	.0002	.0063
%RSD	139.08	27.84	104.44	35.96	38.61	19.12	11.83
#1	.34217	.0309	3.3427	.0056	.0013	.0015	.0603
#2	-.07079	.0215	1.7597	.0028	.0008	.0012	.0525
#3	.17694	.0183	-.12124	.0036	.0007	.0010	.0477
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0014	.0011	.0010	2.451	.0586	.0319
SDev	.0003	.0003	.0002	.0003	.004	.0086	.0065
%RSD	19.86	21.12	19.11	34.00	.1585	14.74	20.51
#1	.0018	.0017	.0014	.0013	2.456	.0678	.0384
#2	.0016	.0012	.0010	.0007	2.449	.0571	.0318
#3	.0012	.0013	.0010	.0009	2.449	.0508	.0253
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0013	.0013	2.698	.0017	-2.7452	2.2397	.58012
SDev	.0003	.0001	.006	.0006	1.6515	1.6854	.95533
%RSD	26.71	7.503	.2388	35.93	60.161	75.253	164.68
#1	.0017	.0013	2.698	.0015	-4.3449	4.0019	1.2228
#2	.0012	.0012	2.705	.0024	-2.8443	.64335	-.51767
#3	.0010	.0014	2.692	.0012	-1.0463	2.0738	1.0352
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.44747	.23133	1.8258	-1.5828	-1.1205	.90586	.0011
SDev	.72142	.61303	1.7269	.3348	.5527	.73155	.0005
%RSD	161.22	265.00	94.583	21.151	49.325	80.758	48.32
#1	.26998	.04250	3.2213	-1.2039	-1.6494	.88681	.0017
#2	-1.1728	-.26507	-.10550	-1.7061	-1.1653	.18402	.0009
#3	-.43960	.91656	2.3617	-1.8385	-.54676	1.6467	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

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Low

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0016	3.0033	.0016	.0029
SDev	.0000	.0003	1.1356	.0002	.0003
%RSD	6.760	16.64	37.811	13.74	10.96
#1	-.0001	.0019	4.1425	.0019	.0032
#2	-.0001	.0016	2.9962	.0015	.0028
#3	-.0001	.0014	1.8713	.0015	.0026
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31601	--	--	--	--	--	--
SDev	60.43383	--	--	--	--	--	--
%RSD	.1912382	--	--	--	--	--	--
#1	31645	--	--	--	--	--	--
#2	31626	--	--	--	--	--	--
#3	31532	--	--	--	--	--	--

ethod: PROFCLP2 Sample Name: CCB2 Operator: CGZ
Run Time: 02/26/97 14:54:13
Comment:
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.16359	.0033	.32331	.0011	-.0002	.0002	.0172
SDev	.38827	.0006	.84862	.0004	.0002	.0001	.0029
%RSD	237.34	19.52	262.47	34.20	115.5	39.36	16.71
#1	-.38707	.0040	.19428	.0016	-.0000	.0003	.0205
#2	.28475	.0030	1.2291	.0010	-.0001	.0002	.0164
#3	-.38845	.0029	-.45340	.0008	-.0004	.0001	.0149
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0004	.0001	.0002	.0099	.0096	.0042
SDev	.0001	.0003	.0003	.0001	.0023	.0059	.0034
%RSD	18.45	95.34	461.7	33.46	23.10	61.06	80.06
#1	.0007	.0003	.0003	.0003	.0123	.0136	.0065
#2	.0005	.0007	.0001	.0002	.0095	.0124	.0059
#3	.0005	.0000	-.0002	.0002	.0078	.0029	.0003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0002	.0405	.0006	-3.1159	2.7026	.76539
SDev	.0002	.0002	.0039	.0003	2.1511	1.4317	.39809
%RSD	41.14	109.2	9.558	51.58	69.037	52.975	52.011
#1	.0005	.0001	.0447	.0009	-3.7942	3.7217	1.2193
#2	.0005	.0004	.0398	.0003	-.70740	1.0657	.47567
#3	.0002	.0000	.0371	.0008	-4.8462	3.3202	.60119
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.87850	1.1562	2.9851	-.17362	-.12937	1.7977	-.0001
SDev	.85040	.5239	1.0727	1.22362	5.14244	2.2257	.0020
%RSD	96.801	45.314	35.936	704.75	3975.0	123.81	1336.
#1	.48018	1.3215	3.9110	-1.2330	-3.9589	3.9573	.0002
#2	.30037	1.5776	1.8096	-.45352	5.7155	-.48862	.0016
#3	1.8550	.56960	3.2347	1.1657	-2.1447	1.9243	-.0023
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0001	.0006	1.6269	.0008	.0005		
SDev	.0000	.0002	.4017	.0001	.0001		
%RSD	67.27	35.80	24.689	10.35	17.88		
#1	-.0000	.0008	1.9846	.0008	.0006		
#2	-.0000	.0006	1.7035	.0007	.0005		
#3	-.0001	.0004	1.1924	.0008	.0004		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31078	--	--	--	--	--	--
SDev	87.25892	--	--	--	--	--	--
%RSD	.2807733	--	--	--	--	--	--
#1	31072	--	--	--	--	--	--
#2	31168	--	--	--	--	--	--
#3	30994	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: B60240 Operator: CGZ
Run Time: 02/26/97 15:01:30
Comment: 9702305 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.32848	6.555	1.8786	-.0001	.0283	.0005	.8271
SDev	.52565	.022	.1825	.0003	.0002	.0000	.0030
%RSD	160.03	.3426	9.7160	216.1	.6895	7.112	.3679
#1	-.92805	6.572	1.6898	.0001	.0284	.0005	.8284
#2	-.11052	6.564	2.0541	-.0005	.0284	.0006	.8293
#3	.05313	6.530	1.8920	-.0001	.0281	.0005	.8236

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0048	.0862	.0150	17.55	1.127	1.708
SDev	.0001	.0003	.0003	.0003	.07	.005	.008
%RSD	329.1	7.163	.3930	1.694	.3811	.4396	.4479
#1	.0001	.0045	.0860	.0148	17.60	1.126	1.708
#2	-.0001	.0052	.0866	.0153	17.57	1.132	1.715
#3	-.0001	.0046	.0860	.0150	17.47	1.123	1.700

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1766	.0312	.1875	.0133	2.5654	8.1408	6.2845
SDev	.0006	.0005	.0019	.0003	.6031	1.8073	1.0526
%RSD	.3308	1.592	1.012	2.215	23.510	22.200	16.749
#1	.1767	.0310	.1884	.0132	2.7340	8.9631	6.8891
#2	.1771	.0318	.1887	.0131	1.8959	9.3906	6.8952
#3	.1759	.0308	.1853	.0137	3.0663	6.0685	5.0691

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.63174	.62249	3.6578	-.87939	-3.6988	2.7795	.0058
SDev	1.0849	.97130	.9803	1.18600	2.9122	.6207	.0017
%RSD	171.73	156.03	26.801	134.87	78.734	22.333	29.30
#1	.91112	1.1041	3.4829	-.37321	-3.6519	3.4782	.0041
#2	1.5496	-.49550	4.7138	-.03047	-6.6342	2.5689	.0075
#3	-.56551	1.2589	2.7767	-2.2345	-.81032	2.2915	.0059

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0034	.3453	1.5156	.0225	.0294
SDev	.0000	.0008	.9705	.0003	.0002
%RSD	1.072	.2316	64.035	1.442	.5398
#1	.0034	.3459	.74945	.0228	.0295
#2	.0035	.3457	2.6070	.0225	.0296
#3	.0034	.3444	1.1904	.0222	.0293

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Method: PROFCLP2 Sample Name: B60240D Operator: CGZ
Run Time: 02/26/97 15:08:47
Comment: 9702305 0 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.42443	6.822	3.4155	-.0006	.0299	.0006	1.314
SDev	.21932	.014	1.7520	.0004	.0001	.0000	.002
%RSD	51.673	.2019	51.296	62.83	.2989	.1595	.1139
#1	-.17547	6.828	3.7538	-.0006	.0299	.0005	1.315
#2	-.58906	6.831	4.9736	-.0002	.0298	.0006	1.312
#3	-.50877	6.806	1.5190	-.0010	.0300	.0005	1.314

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0046	.0423	.0147	21.99	1.070	1.881
SDev	.0000	.0003	.0004	.0001	.02	.001	.003
%RSD	13.38	7.112	.8509	1.049	.0917	.1163	.1576
#1	-.0002	.0048	.0424	.0146	22.01	1.070	1.882
#2	-.0002	.0043	.0419	.0149	21.97	1.068	1.883
#3	-.0002	.0049	.0425	.0146	21.98	1.070	1.878

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1898	.0105	.1966	.0114	3.6380	7.7028	6.3495
SDev	.0002	.0004	.0011	.0006	2.1280	1.8170	.5198
%RSD	.0892	3.437	.5404	5.734	58.492	23.588	8.1872
#1	.1900	.0109	.1977	.0110	2.8520	8.6457	6.7167
#2	.1897	.0103	.1964	.0121	6.0472	5.6082	5.7547
#3	.1897	.0102	.1956	.0110	2.0149	8.8544	6.5771

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.58166	.72929	3.9715	-1.1111	-3.2496	2.7154	.0036
SDev	.49525	1.1815	2.4846	.5488	1.8567	1.1052	.0008
%RSD	85.144	162.01	62.560	49.396	57.138	40.702	21.30
#1	.53542	-.37305	3.0632	-.72702	-5.3888	2.1307	.0033
#2	.11115	.58436	2.0689	-.86663	-2.3025	2.0253	.0044
#3	1.0984	1.9766	6.7825	-1.7397	-2.0573	3.9901	.0030

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0015	.3389	2.4805	.0220	.0295
SDev	.0001	.0004	1.1317	.0004	.0000
%RSD	3.252	.1054	45.622	1.658	.1475
#1	.0015	.3392	1.1792	.0222	.0295
#2	.0015	.3389	3.2338	.0222	.0296
#3	.0016	.3385	3.0286	.0216	.0295

M 0258

thod: PROFCLP2 Sample Name: B60240S Operator: CGZ
Run Time: 02/26/97 15:16:05
mment: 9702305S 2/27/97 CGZ
de: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	46.740	8.419	1860.2	.0002	1.927	.0491	.7103
SDev	.291	.022	3.1	.0003	.003	.0001	.0005
RSD	.62160	.2555	.16614	127.7	.1686	.1178	.0671
#1	46.436	8.420	1856.7	.0005	1.924	.0490	.7106
#2	47.015	8.440	1861.8	.0001	1.930	.0491	.7107
3	46.768	8.397	1862.3	.0000	1.926	.0490	.7098

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0491	.4896	.2170	.2474	16.41	1.059	1.461
SDev	.0001	.0004	.0001	.0002	.04	.001	.003
RSD	.1789	.0858	.0422	.0824	.2434	.0939	.1767
#1	.0491	.4899	.2169	.2472	16.41	1.059	1.463
#2	.0491	.4896	.2170	.2476	16.46	1.060	1.462
3	.0490	.4891	.2171	.2473	16.38	1.058	1.458

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
nits	ppm	ppm	ppm	ppm	ppb	ppb	ppb
vge	.6501	.0052	.1751	.4970	475.55	478.33	477.41
SDev	.0005	.0005	.0016	.0013	2.72	.90	.95
%RSD	.0769	10.43	.9429	.2617	.57273	.18808	.19845
1	.6499	.0058	.1769	.4955	472.43	478.48	476.46
#2	.6507	.0048	.1736	.4980	477.44	477.37	477.39
3	.6497	.0050	.1747	.4975	476.77	479.15	478.36

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
vge	373.56	1811.7	378.34	371.17	1789.5	1822.7	.0063
SDev	.37	4.8	3.21	2.15	10.4	5.3	.0000
%RSD	.09812	.26278	.84868	.57931	.58206	.29006	.6603
1	373.36	1806.2	379.77	370.15	1781.0	1818.7	.0063
#2	373.98	1814.2	374.66	373.64	1801.1	1820.8	.0063
3	373.34	1814.6	380.58	369.72	1786.3	1828.7	.0062

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
vge	.0025	.3282	1835.0	.4902	.5268
Dev	.0000	.0004	2.6	.0008	.0009
%RSD	.3245	.1372	.14151	.1739	.1676
1	.0025	.3281	1833.2	.4910	.5267
#2	.0024	.3288	1838.0	.4905	.5277
#3	.0025	.3279	1833.8	.4893	.5260

Method: PROFCLP2 Sample Name: B60240L Operator: CGZ
Run Time: 02/26/97 15:23:22
Comment: 9702305L 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.66629	1.334	.88834	-.0001	.0062	.0000	.1809
SDev	.48622	.004	1.1456	.0003	.0002	.0000	.0006
%RSD	72.974	.2793	128.96	279.0	3.588	266.7	.3447
#1	-.38515	1.336	1.6170	.0000	.0064	.0000	.1815
#2	-.38600	1.336	1.4802	.0001	.0062	-.0000	.1811
#3	-1.2277	1.330	-.43214	-.0005	.0060	.0000	.1803

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0011	.0170	.0032	3.469	.2282	.3505
SDev	.0002	.0004	.0004	.0002	.004	.0042	.0027
%RSD	1233.	35.58	2.370	7.641	.1271	1.844	.7621
#1	-.0000	.0014	.0173	.0035	3.474	.2321	.3521
#2	.0002	.0012	.0171	.0030	3.469	.2286	.3519
#3	-.0002	.0007	.0166	.0030	3.465	.2238	.3474

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0360	.0062	.0722	.0028	-3.4403	4.1390	1.6155
SDev	.0003	.0001	.0013	.0004	1.5745	2.0800	1.0787
%RSD	.7079	1.401	1.824	13.99	45.766	50.252	66.772
#1	.0362	.0063	.0720	.0026	-1.6232	2.4842	1.1168
#2	.0360	.0061	.0736	.0033	-4.2979	3.4590	.87637
#3	.0357	.0062	.0709	.0027	-4.3998	6.4739	2.8533

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.89429	1.4348	4.2667	-3.4713	-1.3565	2.8280	-.0002
SDev	1.45049	.3903	1.8644	2.8285	1.7232	1.3019	.0021
%RSD	162.19	27.202	43.698	81.482	127.03	46.039	1055.
#1	.76386	.98412	2.7565	-.23136	-.15178	1.5508	.0019
#2	-1.5189	1.6616	6.3505	-5.4482	-3.3303	4.1534	-.0003
#3	-1.9278	1.6587	3.6929	-4.7344	-.58740	2.7796	-.0022

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0006	.0700	4.0500	.0049	.0075
SDev	.0001	.0002	2.4003	.0002	.0001
%RSD	8.906	.3175	59.268	4.651	1.542
#1	.0007	.0703	5.7167	.0048	.0076
#2	.0006	.0701	5.1344	.0052	.0074
#3	.0006	.0698	1.2988	.0048	.0074

M 0260

Method: PROFCLP2 Sample Name: B60240P Operator: CGZ
Run Time: 02/26/97 15:30:39
Comment: 9702305P 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.202	6.572	23.327	.0003	.0286	.0105	.8309
SDev	.153	.042	.300	.0002	.0002	.0001	.0026
%RSD	.79711	.6357	1.2844	68.29	.8320	.5139	.3090
#1	19.352	6.620	23.667	.0001	.0289	.0106	.8332
#2	19.208	6.542	23.213	.0003	.0284	.0105	.8281
#3	19.046	6.555	23.102	.0005	.0285	.0105	.8315

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0100	.1063	.2856	.0638	17.64	1.130	1.714
SDev	.0001	.0008	.0012	.0002	.11	.007	.005
%RSD	1.270	.7510	.4129	.3803	.6343	.6028	.3123
#1	.0101	.1072	.2870	.0640	17.77	1.135	1.720
#2	.0101	.1057	.2848	.0636	17.55	1.132	1.709
#3	.0099	.1061	.2851	.0639	17.60	1.122	1.714

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.2075	.0311	.1866	.0949	10.117	12.625	11.790
SDev	.0009	.0003	.0013	.0008	.439	.923	.498
%RSD	.4178	1.128	.7039	.7966	4.3413	7.3134	4.2216
#1	.2085	.0308	.1872	.0958	10.028	12.227	11.495
#2	.2069	.0314	.1876	.0946	10.593	11.967	11.510
#3	.2071	.0310	.1852	.0943	9.7282	13.680	12.364

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	120.69	10.670	125.35	118.36	6.2281	12.887	.0078
SDev	3.26	.366	3.07	3.37	1.3817	.253	.0043
%RSD	2.7039	3.4276	2.4514	2.8507	22.184	1.9635	54.95
#1	123.56	10.782	127.76	121.46	6.1110	13.114	.0067
#2	117.14	10.966	121.89	114.77	7.6646	12.614	.0126
#3	121.37	10.261	126.40	118.86	4.9088	12.933	.0042

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0035	.3470	22.969	.1202	.0718
SDev	.0000	.0018	.604	.0005	.0003
%RSD	.7300	.5282	2.6317	.3902	.4703
#1	.0035	.3491	22.525	.1207	.0722
#2	.0035	.3458	23.658	.1198	.0716
#3	.0035	.3461	22.725	.1200	.0716

Method: PROFCLP2 Sample Name: B60223 Operator: CGZ
Run Time: 02/26/97 15:37:56
Comment: 9702040 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	136.79	14.62	75.185	.0278	.0544	.0013	2.233
SDev	.36	.04	.953	.0008	.0004	.0000	.002
%RSD	.26619	.2430	1.2671	3.034	.6622	.0091	.0867
#1	136.60	14.58	76.284	.0284	.0541	.0013	2.231
#2	137.21	14.65	74.674	.0269	.0548	.0013	2.234
#3	136.57	14.63	74.597	.0282	.0543	.0013	2.234

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	.0057	.2357	.0743	127.5	4.250	2.522
SDev	.0001	.0004	.0004	.0002	.3	.009	.002
%RSD	5.066	6.389	.1646	.2933	.2716	.2048	.0765
#1	-.0025	.0060	.2355	.0740	127.2	4.254	2.521
#2	-.0028	.0057	.2361	.0744	127.9	4.240	2.521
#3	-.0027	.0053	.2354	.0744	127.4	4.256	2.524

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.3186	.0244	2.377	.0357	14.801	25.457	21.909
SDev	.0003	.0002	.009	.0001	1.882	.288	.789
%RSD	.0842	.8143	.3667	.1289	12.713	1.1304	3.5992
#1	.3183	.0242	2.378	.0357	13.370	25.432	21.416
#2	.3188	.0244	2.368	.0357	14.100	25.183	21.493
#3	.3187	.0246	2.385	.0357	16.932	25.757	22.818

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	2.2109	1.7185	6.3504	.14387	-.04352	2.5978	-.0365
SDev	.5107	1.4083	1.1808	.72074	2.25311	2.3638	.0019
%RSD	23.101	81.955	18.594	500.97	5176.7	90.994	5.301
#1	2.5434	.55664	5.7029	.96570	-1.9165	1.7909	-.0343
#2	1.6228	1.3139	5.6351	-.38066	2.4568	.74301	-.0376
#3	2.4664	3.2848	7.7133	-.15344	-.67089	5.2593	-.0376

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0479	.7216	5.2739	.0867	.7953
SDev	.0000	.0018	.5219	.0006	.0015
%RSD	.0174	.2511	9.8966	.6715	.1898
#1	.0479	.7198	5.6782	.0861	.7936
#2	.0479	.7234	5.4588	.0867	.7964
#3	.0479	.7216	4.6847	.0873	.7960

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Method: PROFCLP2 Sample Name: B60224 Operator: CGZ
Run Time: 02/26/97 15:45:14
Comment: 9702042 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	140.45	34.40	110.85	.0976	.1682	.0022	24.46
SDev	.96	.23	1.36	.0011	.0011	.0000	.11
%RSD	.68527	.6578	1.2253	1.122	.6363	.3397	.4609
#1	139.35	34.14	109.99	.0964	.1670	.0022	24.33
#2	140.82	34.51	112.41	.0981	.1689	.0022	24.51
#3	141.17	34.56	110.14	.0984	.1688	.0022	24.53

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0031	.0176	.3058	.1363	156.6	9.114	11.46
SDev	.0001	.0001	.0015	.0011	.8	.055	.05
%RSD	4.315	.6201	.4985	.7780	.5284	.6017	.4369
#1	-.0030	.0176	.3042	.1351	155.7	9.056	11.40
#2	-.0033	.0175	.3059	.1371	157.0	9.119	11.48
#3	-.0031	.0177	.3073	.1369	157.2	9.166	11.49

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.7732	.0639	15.85	.0832	28.993	42.090	37.729
SDev	.0041	.0013	.08	.0013	.583	.117	.226
%RSD	.5342	2.002	.4944	1.524	2.0122	.27808	.59900
#1	.7685	.0630	15.76	.0818	28.961	42.219	37.805
#2	.7749	.0635	15.89	.0837	29.592	42.058	37.907
#3	.7762	.0654	15.89	.0842	28.426	41.992	37.475

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	3.0025	4.6798	7.7977	.60807	4.9847	4.5272	-.0433
SDev	1.0195	1.5531	3.0295	.19722	.6582	2.6375	.0008
%RSD	33.955	33.188	38.851	32.434	13.204	58.258	1.949
#1	4.1758	3.8321	11.292	.62274	5.0768	3.2103	-.0429
#2	2.3331	3.7350	6.1966	.40393	5.5920	2.8076	-.0428
#3	2.4985	6.4723	5.9047	.79755	4.2853	7.5638	-.0443

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2645	.9792	6.8215	.1521	2.227
SDev	.0016	.0058	.3371	.0010	.011
%RSD	.6133	.5886	4.9422	.6497	.4943
#1	.2627	.9726	6.7525	.1510	2.214
#2	.2651	.9815	7.1877	.1524	2.233
#3	.2658	.9834	6.5241	.1530	2.234

M 0283

Method: PROFCLP2 Sample Name: CRIF Operator: CGZ
Run Time: 02/26/97 15:52:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.545	.0160	20.811	.2023	-.0003	.0104	.0298
SDev	.109	.0054	.274	.0004	.0001	.0000	.0012
%RSD	.55919	33.89	1.3175	.2014	17.58	.1257	3.973
#1	19.478	.0220	20.725	.2020	-.0002	.0104	.0305
#2	19.671	.0149	21.118	.2020	-.0003	.0104	.0305
#3	19.487	.0113	20.590	.2027	-.0003	.0104	.0285

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0109	.1070	.0209	.0505	.1063	.0164	.0057
SDev	.0001	.0004	.0001	.0001	.0144	.0026	.0039
%RSD	.8336	.4132	.4822	.2712	13.54	15.55	67.80
#1	.0109	.1066	.0208	.0505	.1214	.0160	.0084
#2	.0110	.1075	.0210	.0507	.1049	.0192	.0075
#3	.0108	.1070	.0210	.0504	.0927	.0141	.0013

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0316	.0201	.0560	.0854	4.8735	7.0823	6.3472
SDev	.0001	.0004	.0004	.0008	.8884	1.2235	.6009
%RSD	.3064	2.051	.7417	.9378	18.228	17.275	9.4677
#1	.0317	.0197	.0555	.0845	4.6636	8.1232	6.9715
#2	.0317	.0205	.0564	.0856	4.1089	7.3893	6.2973
#3	.0315	.0200	.0560	.0860	5.8480	5.7346	5.7728

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	125.66	9.4332	127.67	124.65	11.352	8.4746	.1639
SDev	.55	1.3528	.48	.78	1.501	1.9402	.0010
%RSD	.43440	14.341	.37432	.62449	13.225	22.894	.6130
#1	125.28	10.608	127.98	123.92	10.653	10.585	.1628
#2	125.42	9.7370	127.12	124.56	13.076	8.0697	.1645
#3	126.28	7.9543	127.91	125.47	10.328	6.7688	.1644

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0001	.1004	22.046	.1008	.0486
SDev	.0001	.0000	.699	.0004	.0001
%RSD	44.82	.0406	3.1695	.4260	.3071
#1	.0001	.1004	21.982	.1013	.0487
#2	.0002	.1004	22.774	.1005	.0487
#3	.0001	.1005	21.381	.1006	.0484

ethod: PROFCLP2 Sample Name: ICSAF Operator: CGZ
Run Time: 02/26/97 16:06:07
Comment:
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.3916	510.6	1.1458	.0033	.0090	.0025	554.9
SDev	.2248	.3	.9011	.0006	.0001	.0000	1.1
%RSD	9.4001	.0528	78.645	19.52	1.035	.4573	.2043
#1	2.4376	510.3	2.1511	.0026	.0089	.0025	556.1
#2	2.5899	510.7	.41054	.0039	.0090	.0025	554.8
#3	2.1474	510.8	.87584	.0034	.0091	.0025	553.8
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0034	.0002	-.0047	207.2	.0786	537.5
SDev	.0002	.0001	.0001	.0001	.6	.0030	.9
%RSD	38.40	2.311	75.74	2.129	.2710	3.837	.1761
#1	-.0008	.0033	.0003	-.0047	207.9	.0757	538.5
#2	-.0004	.0035	.0001	-.0048	207.0	.0817	537.2
#3	-.0005	.0034	.0001	-.0047	206.8	.0784	536.7
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0089	.0014	.1156	.0037	-1.3392	2.8021	1.4234
SDev	.0002	.0006	.0010	.0001	.9910	1.9068	.9710
%RSD	2.110	42.90	.8580	2.042	73.995	68.048	68.221
#1	.0089	.0014	.1165	.0036	-.51187	1.8619	1.0718
#2	.0088	.0007	.1159	.0036	-2.4375	4.9964	2.5212
#3	.0091	.0019	.1145	.0037	-1.0684	1.5480	.67710
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150			.0400			6.0000
Low	-.0150			-.0400			-6.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.02158	-.88082	.68037	-.37246	5.3866	-4.0102	-.0671
SDev	.21340	1.99941	2.5909	1.07849	3.1482	4.3403	.0050
%RSD	988.66	226.99	380.81	289.56	58.445	108.23	7.412
#1	.06590	-2.4256	3.3476	-1.5729	8.9710	-8.1157	-.0639
#2	-.26483	1.3775	-1.8269	.51463	3.0702	.53195	-.0728
#3	.13418	-1.5944	.52045	-.05908	4.1185	-4.4469	-.0646
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Method: PROFCLP2 Sample Name: ICSAF Operator: CGZ
Run Time: 02/26/97 16:06 Filename: RS896
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: H2M LABS Cust. Smpl. ID.: Cust. ID.:

Elems	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avge	2.3916	510.6	1.1458	.0033	.0090	.0025
SDev	.22481	.2694	.90111	.0006	.0001	0
%RSD	9.4001	.0528	78.645	19.52	1.035	.4573

Elems	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	554.9	-.0006	.0034	.0002	-.0047	207.2
SDev	1.134	.0002	.0001	.0001	.0001	.5616
%RSD	.2043	38.4	2.311	75.74	2.129	.271

Elems	K	Mg	Mn	Mo2020	Na	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0786	537.5	.0089	.0014	.1156	.0037
SDev	.003	.9465	.0002	.0006	.001	.0001
%RSD	3.837	.1761	2.11	42.9	.858	2.042

Elems	2203/1	2203/2	Pb2203	Sb2068	Se1960	2068/1
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.3392	2.8021	1.4234	-.02158	-.88082	.68036
SDev	.99095	1.9068	.97104	.2134	1.9994	2.5909
%RSD	73.995	68.048	68.221	988.66	226.99	380.81

Elems	2068/2	1960/1	1960/2	Sn1899	Sr4215	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm
Avge	-.37246	5.3866	-4.0102	-.0671	-.4294	-.0133
SDev	1.0785	3.1481	4.3403	.005	.0017	.0001
%RSD	289.56	58.445	108.23	7.412	.3941	.4983

Elems	Tl1908	V	Zn	*Y
Units	ppb	ppm	ppm	
Avge	4.9847	-.0001	.0006	29178.7
SDev	2.1428	.0003	.0001	53.9846
%RSD	42.988	244.5	8.951	.18501

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M0265A
mtm 3/5/97

thod: PROFCLP2 Sample Name: ICSABF Operator: CGZ
Run Time: 02/26/97 16:13:25
mment:
de: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	1021.4	506.0	968.92	.9837	.5029	.5004	549.0
SDev	2.8	1.3	3.30	.0036	.0013	.0011	2.0
RSD	.27299	.2562	.34098	.3641	.2612	.2308	.3669
#1	1022.5	505.6	969.57	.9855	.5035	.5001	547.9
#2	1018.2	504.9	965.34	.9796	.5014	.4995	547.9
3	1023.5	507.5	971.85	.9861	.5038	.5017	551.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
ow	800.00	400.0	800.00	.8000	.4000	.4000	400.0

lem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.9228	.4636	.4729	.5010	205.3	.0041	533.3
SDev	.0030	.0017	.0010	.0015	.7	.0014	1.9
RSD	.3277	.3642	.2090	.2954	.3246	34.01	.3496
#1	.9220	.4635	.4727	.5015	205.0	.0036	532.7
2	.9203	.4621	.4721	.4993	204.8	.0056	531.8
3	.9262	.4654	.4740	.5022	206.0	.0030	535.4
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
igh	1.200	.6000	.6000	.6000	240.0		600.0
ow	.8000	.4000	.4000	.4000	160.0		400.0

lem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
nits	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.4837	.9453	.0456	.9138	903.08	903.37	903.28
SDev	.0011	.0038	.0012	.0029	6.70	2.67	3.98
RSD	.2252	.4024	2.540	.3141	.74140	.29575	.44060
#1	.4836	.9449	.0448	.9134	900.96	903.30	902.52
2	.4827	.9418	.0469	.9111	897.71	900.74	899.73
3	.4848	.9493	.0451	.9168	910.58	906.08	907.58
rrors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
igh	.6000			1.200			1200.0
ow	.4000			.8000			800.00

lem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
nits	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-6.7484	954.86	-4.5597	-7.8415	955.03	954.77	-.0690
Dev	2.8248	4.88	2.0828	4.5245	10.52	4.33	.0012
RSD	41.859	.51070	45.678	57.700	1.1013	.45359	1.713
#1	-3.4879	953.33	-5.0256	-2.7207	959.21	950.40	-.0676
2	-8.2965	950.92	-2.2834	-11.299	943.07	954.85	-.0695
3	-8.4606	960.31	-6.3701	-9.5048	962.82	959.06	-.0698
rrors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh		1200.0					

Low		800.00			
Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.4281	-.0156	893.62	.4696	1.006
SDev	.0010	.0002	7.05	.0004	.003
%RSD	.2306	1.358	.78900	.0770	.3043
#1	-.4274	-.0157	888.53	.4692	1.006
#2	-.4276	-.0153	890.67	.4697	1.003
#3	-.4292	-.0157	901.67	.4699	1.009
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			1200.0	.6000	1.200
Low			800.00	.4000	.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29403	--	--	--	--	--	--
SDev	48.62033	--	--	--	--	--	--
%RSD	.1653561	--	--	--	--	--	--
#1	29402	--	--	--	--	--	--
#2	29453	--	--	--	--	--	--
#3	29356	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCV3 Operator: CGZ
Run Time: 02/26/97 16:20:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	987.84	50.28	484.19	2.503	2.457	2.511	52.40
SDev	2.00	.07	2.25	.004	.003	.001	.06
%RSD	.20221	.1400	.46472	.1558	.1285	.0510	.1075
#1	986.79	50.36	486.36	2.498	2.455	2.512	52.46
#2	986.58	50.23	484.35	2.505	2.456	2.511	52.40
#3	990.14	50.24	481.87	2.506	2.461	2.510	52.35
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.471	2.471	2.470	2.438	49.59	79.70	49.37
SDev	.006	.000	.003	.003	.11	.08	.10
%RSD	.2347	.0058	.1088	.1353	.2256	.0973	.2041
#1	2.477	2.471	2.473	2.436	49.71	79.67	49.46
#2	2.469	2.471	2.468	2.437	49.55	79.64	49.38
#3	2.466	2.471	2.468	2.442	49.50	79.79	49.26
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.456	2.426	80.53	2.452	466.54	473.11	470.92
SDev	.001	.004	.15	.004	1.17	.43	.25
%RSD	.0281	.1574	.1834	.1431	.25133	.09089	.05265
#1	2.457	2.430	80.37	2.456	465.31	473.33	470.66
#2	2.456	2.425	80.55	2.449	466.66	473.39	471.15
#3	2.456	2.423	80.67	2.450	467.64	472.62	470.96
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1006.1	483.41	1017.8	1000.3	479.46	485.39	4.988
SDev	4.8	1.86	3.7	7.0	3.31	4.13	.005
%RSD	.47596	.38401	.36057	.70303	.68994	.85121	.1002
#1	1004.2	482.70	1013.6	999.54	482.88	482.62	4.985
#2	1002.5	485.52	1020.4	993.63	476.28	490.14	4.984
#3	1011.5	482.02	1019.4	1007.6	479.23	483.41	4.993
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

Low	900.00	450.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0899	2.440	477.50	2.428	2.540		
SDev	.0001	.001	.65	.001	.000		
%RSD	.0775	.0329	.13560	.0359	.0133		
#1	-.0899	2.440	478.25	2.429	2.541		
#2	-.0898	2.439	477.14	2.427	2.540		
#3	-.0899	2.441	477.12	2.427	2.540		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30847	--	--	--	--	--	--
SDev	77.13015	--	--	--	--	--	--
%RSD	.2500405	--	--	--	--	--	--
#1	30904	--	--	--	--	--	--
#2	30878	--	--	--	--	--	--
#3	30759	--	--	--	--	--	--

thod: PROFCLP2 Sample Name: CCVL3 Operator: CGZ
Run Time: 02/26/97 16:28:00
Comment:
de: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	.54236	.0933	.73159	.0064	.0008	.0012	.1298
SDev	.21159	.0271	.94875	.0026	.0003	.0003	.0319
RSD	39.012	29.06	129.68	39.97	39.99	20.94	24.59
#1	.51579	.1212	1.5347	.0089	.0012	.0015	.1633
#2	.76598	.0916	.97525	.0064	.0008	.0012	.1263
3	.34532	.0670	-.31523	.0038	.0005	.0010	.0997
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
igh							
ow							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0014	.0018	.0017	.0011	2.463	.0579	.1074
SDev	.0003	.0004	.0004	.0003	.002	.0106	.0307
RSD	21.20	21.39	25.14	26.27	.0773	18.24	28.62
#1	.0017	.0023	.0021	.0013	2.464	.0679	.1388
#2	.0014	.0018	.0017	.0012	2.464	.0589	.1060
	.0011	.0015	.0012	.0008	2.461	.0468	.0774
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
gh					2.750		
w					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
nits	ppm	ppm	ppm	ppm	ppb	ppb	ppb
vge	.0012	.0014	2.687	.0020	-.55462	.40465	.08553
SDev	.0004	.0006	.008	.0002	1.58925	1.4745	.46808
SD	32.52	39.00	.3071	12.54	286.54	364.37	547.30
#1	.0016	.0019	2.697	.0022	1.2684	-1.2353	-.40117
	.0012	.0017	2.683	.0019	-1.2838	.82838	.12528
	.0008	.0008	2.682	.0017	-1.6484	1.6208	.53246
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
gh			2.750				
w			2.250				

em	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
its	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.25448	1.5406	-.73845	.74979	3.4118	.60597	.0029
SDev	.33384	.9562	1.77530	.38973	3.3662	2.6228	.0029
SD	131.18	62.070	240.41	51.978	98.662	432.83	99.08
#1	-.11601	.55326	-2.7488	1.1980	3.2707	-.80382	.0038
	.34752	1.6061	-.08032	.56073	6.8463	-1.0104	.0052
	.53192	2.4623	.61381	.49065	.11844	3.6321	-.0003
rors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
gh							

Low

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0002	.0013	2.2957	.0016	.0021
SDev	.0001	.0002	.4640	.0004	.0002
%RSD	26.06	12.10	20.213	23.60	7.916
#1	-.0003	.0015	2.2319	.0014	.0022
#2	-.0002	.0013	1.8668	.0021	.0021
#3	-.0002	.0013	2.7883	.0014	.0019
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30999	--	--	--	--	--	--
SDev	117.5791	--	--	--	--	--	--
%RSD	.3793039	--	--	--	--	--	--
#1	30863	--	--	--	--	--	--
#2	31056	--	--	--	--	--	--
#3	31076	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCB3 Operator: CGZ
Run Time: 02/26/97 16:35:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.71098	.0238	1.1209	.0022	-.0003	.0002	.0466
SDev	.44097	.0048	.5469	.0007	.0001	.0001	.0083
%RSD	62.023	20.04	48.791	31.55	34.59	30.04	17.91
#1	.45681	.0293	.56316	.0030	-.0002	.0003	.0553
#2	.45596	.0208	1.1433	.0020	-.0003	.0002	.0459
	1.2202	.0214	1.6563	.0016	-.0004	.0002	.0386
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0005	.0004	.0009	.0190	.0140	.0358
SDev	.0001	.0005	.0004	.0005	.0038	.0031	.0058
%RSD	23.03	98.97	93.26	54.22	20.15	21.85	16.19
#1	.0004	.0005	.0004	.0013	.0231	.0149	.0423
#2	.0006	.0000	.0000	.0004	.0183	.0106	.0311
	.0006	.0011	.0007	.0009	.0156	.0165	.0341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0003	.0477	.0005	-.44077	-.10913	-.21924
SDev	.0001	.0003	.0025	.0001	1.79700	1.22500	.22760
%RSD	32.39	78.83	5.293	16.68	407.70	1122.5	103.81
#1	.0004	.0006	.0486	.0005	.13934	-.62541	-.37042
	.0003	.0001	.0449	.0004	.99453	-.99149	-.32982
	.0005	.0003	.0497	.0006	-2.4562	1.2895	.04252
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.0084	.26947	-2.0679	-.47987	3.0488	-1.1185	.0009
SDev	.7969	1.2963	3.4347	2.82054	.9499	1.4770	.0010
%RSD	79.024	481.05	166.10	587.77	31.158	132.05	109.8
#1	-1.1801	1.4293	-3.3028	-.12075	3.7787	.25594	.0014
	-.13968	-1.1299	-4.7145	2.1439	1.9747	-2.6802	-.0002
	-1.7055	.50896	1.8135	-3.4628	3.3929	-.93122	.0016
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0005	2.1913	.0008	.0009
SDev	.0001	.0002	1.0292	.0008	.0001
%RSD	205.1	45.71	46.968	101.2	8.942
#1	-.0001	.0005	2.7149	.0013	.0010
#2	-.0001	.0002	1.0056	-.0001	.0008
#3	.0001	.0006	2.8535	.0012	.0009
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30809	--	--	--	--	--	--
SDev	38.87730	--	--	--	--	--	--
%RSD	.1261892	--	--	--	--	--	--
#1	30788	--	--	--	--	--	--
#2	30854	--	--	--	--	--	--
#3	30785	--	--	--	--	--	--

Hg DEC 124.wks

NDEC01261
NDEC 124
NDECB0012
NDECB0122

H2M LABS, INC.

Cal. title page 1/31/97
Source: High Purity

MERCURY ANALYSIS LOGBOOK

	Intensity	Time
Blank	47	7:58
0.2	3852	
1.0	18782	
2.0	37942	
5.0	94593	
10.0	184187	

ELEMENT Hg DATE 1/31/97

INSTRUMENT ID: Leeman PS-200 r = .9999 ANALYST SIGNATURE [signature]

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
1		ICV	6.05	100.8% rec				TV = 6.00
2		ICB	<.10					
3		CCV1	6.17	102.8%				TV = 6.00
4		CCB1	<.10					
5		PBW F	<.10					
6		PBW	<.10					
7		PBS	<.10		.20			
8		LCSS	4.87		.20		2.44 mg/kg 97.2%	TV = 2.51 mg/kg
9		9702040	3.4					B60223
10		041	<.10					B0223AX mjm 3/3/97
11		042	.52					B60224
12		033	.13		.24			B60219
13		033D	<.10		.24			D
14	1	0335	1.14	101.0%	.24			S
15		CCV2	6.53	108.8%				
16		CCB2	<.10					
17		9702043	<.10					~~0224AX~~ B220AX mjm 2/24/97
18		235	.38		.21			XX0013
19		236	<.10		.24			XX0014
20		440	<.10					XX0025
21		616	<.20					======
22		617	<.20					↓
23		618	.27					↓
24		044	.56					B60225
25		044D	.56					D

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT Hg DATE 1/31/97

INSTRUMENT ID: _____ ANALYST SIGNATURE [signature]

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
26	1	9702044S	1.62	106.0%				B602255
27		CCV3	6.38	106.3%				
28		CCB3	<.10					
29		9702619	<.20					BZZZZZZ
30		620	<.20					
31		621	<.20					
32		622	.37					
33		623	<.20					
34		624	<.20					
35		625	<.20					
36		045	<.10					0225AX B225.7X mcfm 2/24/97
37		045D	<.10					D
38	1	045S	1.05	105.0%				S
39		CCV4	6.14	102.3%				
40		CCB4	<.10					
41		9702626	<.20					ZZZZZZZ
42		627	<.20					
43		628	<.20					
44		629	<.20					
45		630	<.20					
2		631	<.20					
3		141	.65		.22	12.5	2.4 mg/kg	
4		305	<.10		.23			B602405
5		305D	<.10		.23			D
6	1	305S	1.12	112.0%	.23			S

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT Hg DATE 1/21/97

INSTRUMENT ID: _____ ANALYST SIGNATURE William Fitter

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
7		CCV5	6.26	104.3%				
8		CCB5	<.10					
9		9702431	<.20		.21			" " " " " "
10		687	<.20					
11		688	<.20					
12		689	<.20					
13		690	<.20					
14		691	<.20					
15		708	<.20					
16		438	<.10					XX0023
17		438D	<.10					D
18	1	438S	1.01	101.0%				S
19		CCV6	6.08	101.3%				
20		CCB6	<.10					
21		9702234	.41		.20			XX0012
22		234D	.57		.20			D
23	1	234S	1.47	106.0%	.20			S
24		CCV7	6.17	102.8%				
25		CCB7	<.10					

H2M LABS, INC.

SDG NO.: DEC 0122
DATE: 1/31/97
ANALYST: M Tibbetts
ELEMENT: Hg

METALS QC CHECKLIST

	YES	NO	NA
GENERAL			
1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE	✓		
1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB?	✓		
2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION	✓		
3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION	✓		
4. ARE THE "S" SPIKE RECOVERIES CHECKED?	✓		
5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL?	✓		
6. IS THE PREP BLANK LABELLED AS WATER OR SOIL?	✓		
7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES?		✓	
8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY?			✓
9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID?	✓		
10. ARE ALL PAGES SIGNED AND DATED?	✓		
11. WAS A CRA/CRI STD. ANALYZED?			✓
12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.?	✓		
13. IS THE INITIAL CAL. COEFF. > 0.995?	✓		
14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE?	✓		
FURNACE			
15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE			
16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE			
17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE			
18. DID ANY SAMPLES REQUIRE MSA ANALYSIS?			
19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN?			
20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB?			
ICP			
21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA?			
22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION?			

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

M 0277

William Fitzsimmons

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 07:58:58 31 Jan 1997 HG

Hg .000 ppb 47
Ave. Int. = 47 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 08:01:20 31 Jan 1997 HG

Hg .200 ppb 3852
Ave. Int. = 3852 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 08:03:42 31 Jan 1997 HG

Hg 1.00 ppb 18782
Ave. Int. = 18782 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 08:06:05 31 Jan 1997 HG

Hg 2.00 ppb 37942
Ave. Int. = 37942 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 08:08:32 31 Jan 1997 HG

Hg 5.00 ppb 94593
Ave. Int. = 94593 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 08:11:10 31 Jan 1997 HG

Hg 10.0 ppb 184187
Ave. Int. = 184187 S. D. = 0

Protocol: MERCURY

Rev: 3.001 Time: 08:12:12 31 Jan 1997

Folder: HGDEC124 Seq: 6 Print: On

User: W.FITTERER Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Xmit: Off Autosampler: On

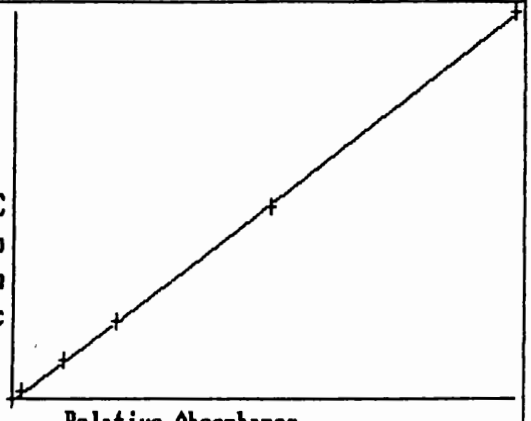
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear
S1	.000	-.029	-.029	Quadratic
S2	.200	.177	-.023	WtdLinear
S3	1.00	.986	-.014	C
S4	2.00	2.02	.024	Accept o
S5	5.00	5.09	.094	n
S6	10.0	9.95	-.051	StdAdd c

A .0000000 r .999989

B 5.41878e-5 C -3.19157e-2



	Mean	%RSD	
S1	47	0	47
S2	3852	0	3852
S3	18782	0	18782
S4	37942	0	37942
S5	94593	0	94593
S6	184187	0	184187

New calibration coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV				Seq: 6		08:14:13 31 Jan 1997 HG		
Hg	6.05	ppb	.000	6.05				
*** Sample ID: ICB				Seq: 7		08:16:50 31 Jan 1997 HG		
Hg	-.058	ppb	.000	-.058				
*** Sample ID: CCV1				Seq: 8		08:19:06 31 Jan 1997 HG		
Hg	6.17	ppb	.000	6.17				
*** Sample ID: CCB1				Seq: 9		08:21:44 31 Jan 1997 HG		
Hg	-.045	ppb	.000	-.045				
*** Sample ID: PBWF				Seq: 10		08:24:02 31 Jan 1997 HG		
Hg	-.025	ppb	.000	-.025				
*** Sample ID: PBW				Seq: 11		08:26:19 31 Jan 1997 HG		
Hg	-.019	ppb	.000	-.019				
*** Sample ID: PBS				Seq: 12		08:28:36 31 Jan 1997 HG		
Hg	-.006	ppb	.000	-.006				
*** Sample ID: LCSS				Seq: 13		08:30:53 31 Jan 1997 HG		
Hg	4.87	ppb	.000	4.87				
*** Sample ID: B60223				Seq: 14		08:33:24 31 Jan 1997 HG		
Hg	3.39	ppb	.000	3.39				
*** Sample ID: ~~022~~ B22391 mm 5/5 R1				Seq: 15		08:35:54 31 Jan 1997 HG		
Hg	-.059	ppb	.000	-.059				
*** Sample ID: B60224				Seq: 16		08:38:12 31 Jan 1997 HG		
Hg	.520	ppb	.000	.520				
*** Sample ID: B60219				Seq: 17		08:40:28 31 Jan 1997 HG		
Hg	.129	ppb	.000	.129				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60219D					Seq: 18	08:42:43 31 Jan 1997 HG		
Hg	-.011	ppb	.000	-.011				
*** Sample ID: B60219S					Seq: 19	08:44:58 31 Jan 1997 HG		
Hg	1.14	ppb	.000	1.14				
*** Sample ID: CCV2					Seq: 20	08:47:15 31 Jan 1997 HG		
Hg	6.53	ppb	.000	6.53				
*** Sample ID: CCB2					Seq: 21	08:49:46 31 Jan 1997 HG		
Hg	-.042	ppb	.000	-.042				
*** Sample ID: ~~0224AX~~ B2249X nvm 2/24/97					Seq: 22	08:52:01 31 Jan 1997 HG		
Hg	-.038	ppb	.000	-.038				
*** Sample ID: XX0013					Seq: 23	08:54:16 31 Jan 1997 HG		
Hg	.381	ppb	.000	.381				
*** Sample ID: XX0014					Seq: 24	08:56:31 31 Jan 1997 HG		
Hg	.030	ppb	.000	.030				
*** Sample ID: XX0025					Seq: 25	08:58:46 31 Jan 1997 HG		
Hg	-.031	ppb	.000	-.031				
*** Sample ID: ZZZZZZ					Seq: 26	09:01:01 31 Jan 1997 HG		
Hg	.001	ppb	.000	.001				
*** Sample ID: ZZZZZZ					Seq: 27	09:03:16 31 Jan 1997 HG		
Hg	-.024	ppb	.000	-.024				
*** Sample ID: ZZZZZZ					Seq: 28	09:05:31 31 Jan 1997 HG		
Hg	.268	ppb	.000	.268				
*** Sample ID: B60225					Seq: 29	09:07:45 31 Jan 1997 HG		
Hg	.556	ppb	.000	.556				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60225D				Seq: 30		09:09:59 31 Jan 1997 HG		
Hg	.558	ppb	.000	.558				
*** Sample ID: B60225S				Seq: 31		09:12:13 31 Jan 1997 HG		
Hg	1.62	ppb	.000	1.62				
*** Sample ID: CCV3				Seq: 32		09:14:31 31 Jan 1997 HG		
Hg	6.38	ppb	.000	6.38				
*** Sample ID: CCB3				Seq: 33		09:16:56 31 Jan 1997 HG		
Hg	-.047	ppb	.000	-.047				
*** Sample ID: ZZZZZZ				Seq: 34		09:19:10 31 Jan 1997 HG		
Hg	-.024	ppb	.000	-.024				
*** Sample ID: ZZZZZZ				Seq: 35		09:21:24 31 Jan 1997 HG		
Hg	-.025	ppb	.000	-.025				
*** Sample ID: ZZZZZZ				Seq: 36		09:23:38 31 Jan 1997 HG		
Hg	.020	ppb	.000	.020				
*** Sample ID: ZZZZZZ				Seq: 37		09:25:53 31 Jan 1997 HG		
Hg	.371	ppb	.000	.371				
*** Sample ID: ZZZZZZ				Seq: 38		09:28:08 31 Jan 1997 HG		
Hg	-.032	ppb	.000	-.032				
*** Sample ID: ZZZZZZ				Seq: 39		09:30:22 31 Jan 1997 HG		
Hg	-.016	ppb	.000	-.016				
*** Sample ID: ZZZZZZ				Seq: 40		09:32:35 31 Jan 1997 HG		
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ~~0225AX~~ B2259A MM 2/24/97				Seq: 41		09:34:49 31 Jan 1997 HG		
Hg	-.028	ppb	.000	-.028				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ~~0225AXD~~ B225AX1 mtm 2/24/97						Seq: 42	09:37:03 31 Jan 1997 HG	
Hg	-.032	ppb	.000	-.032				
*** Sample ID: ~~0225AXS~~ B225AXS mtm 2/24/97						Seq: 43	09:39:17 31 Jan 1997 HG	
Hg	1.05	ppb	.000	1.05				
*** Sample ID: CCV4						Seq: 44	09:41:33 31 Jan 1997 HG	
Hg	6.14	ppb	.000	6.14				
*** Sample ID: CCB4						Seq: 45	09:44:02 31 Jan 1997 HG	
Hg	-.051	ppb	.000	-.051				
*** Sample ID: ZZZZZZ						Seq: 46	09:46:16 31 Jan 1997 HG	
Hg	-.011	ppb	.000	-.011				
*** Sample ID: ZZZZZZ						Seq: 47	09:48:30 31 Jan 1997 HG	
Hg	-.021	ppb	.000	-.021				
*** Sample ID: ZZZZZZ						Seq: 48	09:50:45 31 Jan 1997 HG	
Hg	-.028	ppb	.000	-.028				
*** Sample ID: ZZZZZZ						Seq: 49	09:53:00 31 Jan 1997 HG	
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ						Seq: 50	09:55:16 31 Jan 1997 HG	
Hg	.123	ppb	.000	.123				
*** Sample ID: ZZZZZZ						Seq: 51	09:57:31 31 Jan 1997 HG	
Hg	-.041	ppb	.000	-.041				
*** Sample ID: ZZZZZZ						Seq: 52	09:59:46 31 Jan 1997 HG	
Hg	.646	ppb	.000	.646				
*** Sample ID: B60240						Seq: 53	10:02:02 31 Jan 1997 HG	
Hg	-.046	ppb	.000	-.046				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60240D				Seq: 54	10:04:17 31 Jan 1997 HG			
Hg	-.015	ppb	.000	-.015				
*** Sample ID: B60240S				Seq: 55	10:06:33 31 Jan 1997 HG			
Hg	1.12	ppb	.000	1.12				
*** Sample ID: CCV5				Seq: 56	10:08:50 31 Jan 1997 HG			
Hg	6.26	ppb	.000	6.26				
*** Sample ID: CCB5				Seq: 57	10:11:19 31 Jan 1997 HG			
Hg	-.051	ppb	.000	-.051				
*** Sample ID: ZZZZZZ				Seq: 58	10:13:34 31 Jan 1997 HG			
Hg	.011	ppb	.000	.011				
*** Sample ID: ZZZZZZ				Seq: 59	10:15:49 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ				Seq: 60	10:18:04 31 Jan 1997 HG			
Hg	-.027	ppb	.000	-.027				
*** Sample ID: ZZZZZZ				Seq: 61	10:20:21 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ				Seq: 62	10:22:37 31 Jan 1997 HG			
Hg	.001	ppb	.000	.001				
*** Sample ID: ZZZZZZ				Seq: 63	10:24:53 31 Jan 1997 HG			
Hg	-.037	ppb	.000	-.037				
*** Sample ID: ZZZZZZ				Seq: 64	10:27:10 31 Jan 1997 HG			
Hg	.015	ppb	.000	.016				
*** Sample ID: XX0023				Seq: 65	10:29:27 31 Jan 1997 HG			
Hg	-.025	ppb	.000	-.025				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: XX0023D				Seq: 66	10:31:44 31 Jan 1997 HG			
Hg	-.028	ppb	.000	-.028				
*** Sample ID: XX0023S				Seq: 67	10:34:01 31 Jan 1997 HG			
Hg	1.01	ppb	.000	1.01				
*** Sample ID: CCV6				Seq: 68	10:36:18 31 Jan 1997 HG			
Hg	6.08	ppb	.000	6.08				
*** Sample ID: CCB6				Seq: 69	10:38:46 31 Jan 1997 HG			
Hg	-.056	ppb	.000	-.056				
*** Sample ID: XX0012				Seq: 70	10:41:03 31 Jan 1997 HG			
Hg	.410	ppb	.000	.410				
*** Sample ID: XX0012D				Seq: 71	10:43:20 31 Jan 1997 HG			
Hg	.573	ppb	.000	.573				
*** Sample ID: XX0012S				Seq: 72	10:45:38 31 Jan 1997 HG			
Hg	1.47	ppb	.000	1.47				
*** Sample ID: CCV7				Seq: 73	10:47:57 31 Jan 1997 HG			
Hg	6.17	ppb	.000	6.17				
*** Sample ID: CCB7				Seq: 74	10:50:26 31 Jan 1997 HG			
Hg	-.051	ppb	.000	-.051				

IV. DOCUMENTATION FOR METALS

A. DIGESTION LOG SHEETS
B. TOTAL SOLIDS LOG SHEETS
C. REPORTING ANALYST SIGNATURE PAGE

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLP DIGESTION LOG Time Start 1845 / 19:25 / 20:10

CLIENT: NJDEC3 - RWLS
SDG #: 0122 - 014
MATRIX: SOIL - LIQUIDS
METHOD: CLP AC70 RT70

ANALYST SIGNATURE: [signature]
DATE: Feb 12, 97

SAMPLE ID#	LAB NO.	DIG TYPE	INITIAL VOL.	FINAL VOL	SPIKE/ NOTES	DESCRIPTION* BEFORE	DESCRIPTION* AFTER
B60219 MS/MSD	9702033	FE	1.00g	200ml		BROWN MEDIUM	colorless clear
					Dup		
					Spike +2.0ml LOT# Ag+FE 690423		
	BLANK		(R)			colorless clear	
	LCS				LOT230 (ERA)	BROWN FINE	LITE YELLO CLEAR
B60223	9702040	FE	100ml	100ml	(SEE BELOW)	BROWN OPAQUE	D. YELLO CLEAR
223A	41					colorless clear	colorless clear
224	42				(R)	BROWN OPAQUE	YELLO CLEAR
224A	43					colorless clear	colorless clear
225 MS/MSD	44				(R)	BROWN OPAQUE	YELLO CLEAR
					Dup		
					Spike +1.0ml LOT# Ag+FE 690423 HIGH PURITY		
225A	45					colorless clear	LITE YELLO CLEAR
					Dup		
					Spike +1.0ml LOT# Ag+FE 690423 HIGH PURITY		
	9703628					colorless clear	colorless clear
	3820						
	BLANK						
	LCS				TRACE	YELLO CLEAR	YELLO CLEAR

NJDEC 0122

NJDEC 0122

RWLS 014

COMMENTS: (R) SEDIMENT ~~Approx 12mm x 2mm~~ mm 3/3/97 - layer of sediment on bottom of Sample container aprox. 2mm to 12mm thick PH<2

- Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
- Description of texture: fine, medium, coarse.
- Description of clarity: clear, cloudy, opaque.
- Description of artifacts: yes or no and describe.

P 0052 M0287
3/5/97 ~~M 0286~~

Hg DEC 124.wks NDEC 01261

H2M LABS, INC.

NDEC 124

Digestion 12:00-14:00 NDECB0012

NDECB 0122

NAME: William Fitzsimmons

DATE: 1/30/97

HG DIGESTIONS

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
ICV	TV=6.00		0.6ml/100	100		
ICB			100			
CCV1	TV=6.00		0.6ml/100			
CCB1			100			
PBW			100			
PBS		.20				
LCSS	ERA 230	.20				
9702040	B60223		100			
041	0223AX	.22				
042	B60224		100			
033	B60219	.24				
033D	D	.24				
033S	S	.24				1
043	0224AX		100			
235	XX0013	.21				
236	XX0014	.24				
440	XX0025		100			
044	B60225					
044D	D					
044S	S					1
045	0225AX					
045D	D					
045S	S					1
305	B60240	.23				
305D	D	.23				

2M LABS, INC.

NAME: William Fitten
DATE: 1/30/97

HG DIGESTIONS

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
9702305	B60240 S	.23		100		1
438	XX0023		100			
438D	D					
438S	S					1
234	XX0012	.20				
234D	D	.20				
2345	S	.20	↓	↓		1
		Cal std prep		1/31/97		
0.2 ppb			.02 ml/100	100		
1.0			.10 ml/100			
2.0			.20 ml/100			
5.0			.50 ml/100			
10.0			1.0 ml/100	↓		

[illegible] LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 8:00 (27)

END TIME: 8:00 (28)

NDEC
SDG 0122
Hardness Calc

DATE: 1/27/97

ANALYST: MM

LAB# 9702023	PAN/CRUCIBLE CI	
%TS 93.3%	%TVS (B60209)	
INITIAL WEIGHT 10.0790	DRY WEIGHT 10.4275	DRY WEIGHT
-TARE WEIGHT - 1.3236	-TARE WEIGHT - 1.3236	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.7554	=SOLID WEIGHT = 9.1039	=VOLATILE WEIGHT =

LAB# 9702024	PAN/CRUCIBLE CJ	
%TS 97.6%	%TVS (B60210)	
INITIAL WEIGHT 10.3183	DRY WEIGHT 10.1059	DRY WEIGHT
-TARE WEIGHT - 1.3187	-TARE WEIGHT - 1.3187	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.9996	=SOLID WEIGHT = 8.7872	=VOLATILE WEIGHT =

LAB# 9702026	PAN/CRUCIBLE CK	
%TS 96.3%	%TVS (B60212)	
INITIAL WEIGHT 10.2255	DRY WEIGHT 9.8980	DRY WEIGHT
-TARE WEIGHT - 1.3172	-TARE WEIGHT - 1.3172	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.9083	=SOLID WEIGHT = 8.5808	=VOLATILE WEIGHT =

LAB# 9702027	PAN/CRUCIBLE CL	
%TS 95.7%	%TVS (B60213)	
INITIAL WEIGHT 10.3585	DRY WEIGHT 9.9677	DRY WEIGHT
-TARE WEIGHT - 1.3240	-TARE WEIGHT - 1.3240	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.0345	=SOLID WEIGHT = 8.6387	=VOLATILE WEIGHT =

LAB# 9702030	PAN/CRUCIBLE CM	
%TS 95.3%	%TVS (B60216)	
INITIAL WEIGHT 12.2080	DRY WEIGHT 11.6957	DRY WEIGHT
-TARE WEIGHT - 1.3218	-TARE WEIGHT - 1.3218	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 10.8862	=SOLID WEIGHT = 10.3739	=VOLATILE WEIGHT =

LAB# 9702031	PAN/CRUCIBLE CN	
%TS 95.2%	%TVS (B60217)	
INITIAL WEIGHT 12.1835	DRY WEIGHT 11.6643	DRY WEIGHT
-TARE WEIGHT - 1.3289	-TARE WEIGHT - 1.3289	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 10.8546	=SOLID WEIGHT = 10.3354	=VOLATILE WEIGHT =

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

NDEC
SDG 0127

START TIME: 8:00 (27)

END TIME: 8:00 (28)

DATE: 1/27/97

ANALYST: MM

LAB# 970208		PAN/CRUCIBLE 2A	LAB# 970223		PAN/CRUCIBLE PF
%TS 97.0%		%TVS (B60204)	%TS 88.7%		%TVS
INITIAL WEIGHT 12.1755	DRY WEIGHT 11.8477	DRY WEIGHT	INITIAL WEIGHT 10.9236	DRY WEIGHT 9.8349	DRY WEIGHT
-TARE WEIGHT - 1.3217	-TARE WEIGHT - 1.3217	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3142	-TARE WEIGHT - 1.3142	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 10.8538	=SOLID WEIGHT = 10.5257	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 9.6088	=SOLID WEIGHT = 8.5207	=VOLATILE WEIGHT =
LAB# 970203		PAN/CRUCIBLE 1T	LAB# 970228 MFM 970225		PAN/CRUCIBLE RA
%TS 96.2%		%TVS (B60219)	%TS 93.5%		%TVS (B60211)
INITIAL WEIGHT 10.3295	DRY WEIGHT 9.9847	DRY WEIGHT	INITIAL WEIGHT 10.3610	DRY WEIGHT 10.2376	DRY WEIGHT
-TARE WEIGHT - 1.3261	-TARE WEIGHT - 1.3261	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3114	-TARE WEIGHT - 1.3114	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.0034	=SOLID WEIGHT = 8.6586	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 9.2496	=SOLID WEIGHT = 8.9262	=VOLATILE WEIGHT =
LAB# 970228		PAN/CRUCIBLE 1L	LAB# 970229		PAN/CRUCIBLE KD
%TS 40.1%		%TVS (B60214)	%TS 87.2%		%TVS (B60215)
INITIAL WEIGHT 11.1123	DRY WEIGHT 5.2446	DRY WEIGHT	INITIAL WEIGHT 10.4056	DRY WEIGHT 9.2459	DRY WEIGHT
-TARE WEIGHT - 1.3158	-TARE WEIGHT - 1.3158	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3159	-TARE WEIGHT - 1.3159	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.7965	=SOLID WEIGHT = 3.9288	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 9.0897	=SOLID WEIGHT = 7.93	=VOLATILE WEIGHT =

T550

P C013

OTAL SOLIDS FOR SLUDGES AND SOILS

NEC.

SDG 0122

TART TIME: 8:00 (27)

ND TIME: 8:00 (28)

DATE: 1/27/97

ANALYST: MFM

LAB# 9702032	PAN/CRUCIBLE RT		LAB#	PAN/CRUCIBLE	
%TS 96.0%	%TVS (B602I8)		%TS	%TVS	
INITIAL WEIGHT 10.2743	DRY WEIGHT 9.9143	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 1.3078	-TARE WEIGHT - 1.3078	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.9665	=SOLID WEIGHT = 8.6065	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

LAB#	PAN/CRUCIBLE MFM		LAB# 1/27	PAN/CRUCIBLE	
%TS	%TVS		%TS 1/27	%TVS MFM	
INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

LAB#	PAN/CRUCIBLE 1/27/97		LAB#	PAN/CRUCIBLE	
%TS	%TVS		%TS	%TVS	
INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

2530

P 0014

H2M LABS, INC.

CASE #: RA096

SDG #: 0122

SCAN: METALS

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: [signature]

Date: 2/28/97

RECEIVED
MAR 1 0 1997
Bureau of Eastern
Remedial Action

Analytical Data Package For

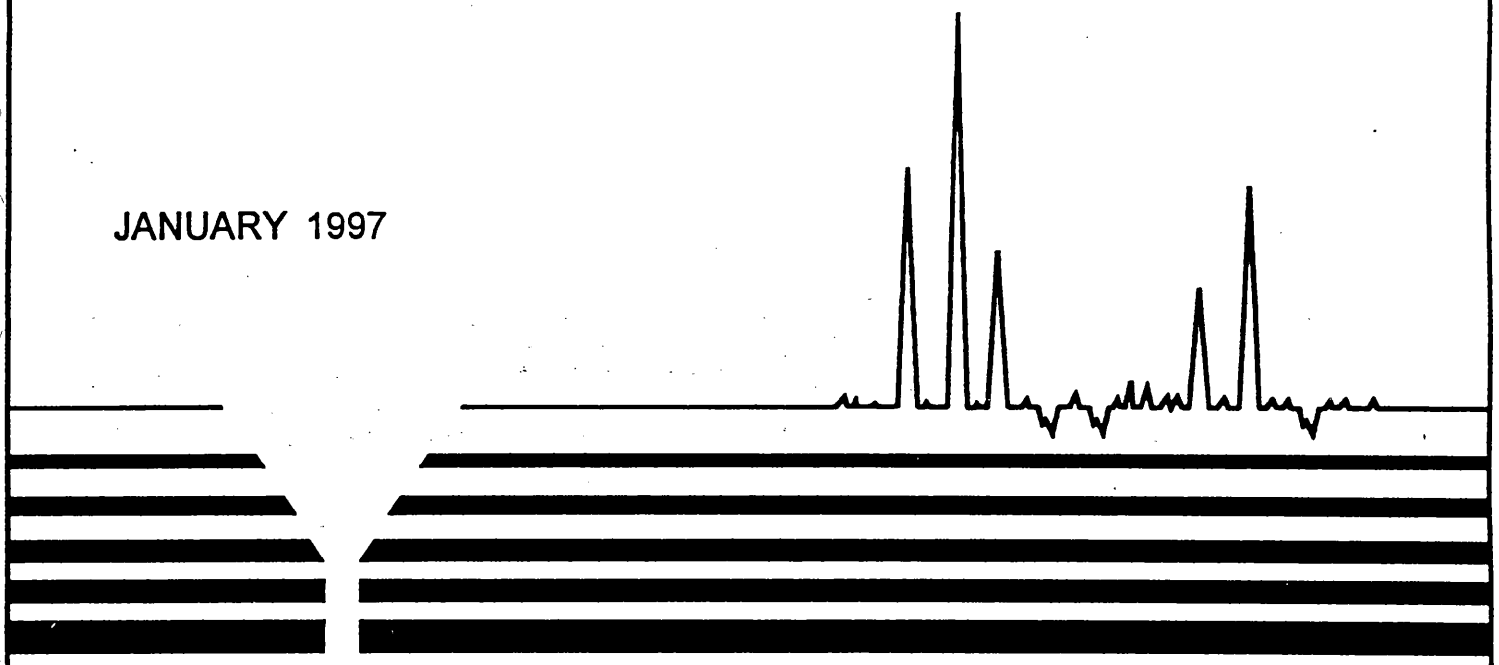
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0
CONTRACT #: C003180
CASE #: RA096 SDG #: 0124

Water and Soil Samples
RECEIVED: January 24, 1997

METALS DATA

JANUARY 1997



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

BACIC
C124

METALS

TABLE OF CONTENTS

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II. QC SUMMARY

III. RAW DATA

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H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

OW No.: 9/93 CLP

Sample No.	Lab Sample ID.
B60240	9702305
B60240D	9702305D
B60240S	9702305S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stanley Isaacson Name: STANley Isaacson

Date: 3/5/97 Title: LAB Manager

I. REPORTS FOR METALS

H2M LABS, INC.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

E - The reported value is estimated because of the presence of interference. An explanatory not is included in the SDG narrative.

M - Duplicate injection precision not met.

N - Matrix spike sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

P - Analyzed by ICP.
A - Analyzed by Flame AA.
F - Analyzed by Furnace AA.
CV - Analyzed by Manual Cold Vapor techniques.
AV - Analyzed by Automated Cold Vapor techniques.
C - Analyzed by Manual Spectrophotometric Method.
CA- Analyzed by Midi-distillation Spectrophotometric Method.
NR - Analyte not Required.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B60240

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Matrix (soil/water): SOIL Lab Sample ID: 9702305

Level (low/med): LOW Date Received: 01/24/97

% Solids: 97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1340			P
7440-36-0	Antimony	0.57	U	N	P
7440-38-2	Arsenic	0.45	U		P
7440-39-3	Barium	5.8	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	169	B		P
7440-47-3	Chromium	17.6		N*	P
7440-48-4	Cobalt	0.97	B		P
7440-50-8	Copper	3.1	B		P
7439-89-6	Iron	3590		*	P
7439-92-1	Lead	1.3			P
7439-95-4	Magnesium	349	B		P
7439-96-5	Manganese	36.1			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	230	B		P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	38.3	B		P
7440-28-0	Thallium	0.31	B		P
7440-62-2	Vanadium	4.6	B		P
7440-66-6	Zinc	6.0			P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: MARCH 4, 1997

II. QC SUMMARY FOR METALS

A. INITIAL AND CONTINUING CALIBRATION VERIFICATION
B. CRDL STANDARD FOR AA AND ICP
C. METHOD BLANK
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E. SPIKE SAMPLE RECOVERY
F. POST DIGEST SPIKE SAMPLE RECOVERY
G. DUPLICATES
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J. ICP SERIAL DILUTIONS
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O. ANALYSIS RUN LOGS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50000.0	51671.63	103.3	50000.0	50841.03	101.7	52276.67	104.6	P
Antimony	1000.0	1014.89	101.5	1000.0	1022.72	102.3	1044.00	104.4	P
Arsenic	500.0	484.22	96.8	500.0	497.42	99.5	503.23	100.6	P
Barium	2500.0	2516.80	100.7	2500.0	2461.63	98.5	2520.10	100.8	P
Beryllium	2500.0	2534.63	101.4	2500.0	2579.13	103.2	2604.33	104.2	P
Cadmium	2500.0	2483.70	99.3	2500.0	2566.37	102.7	2583.47	103.3	P
Calcium	50000.0	52612.70	105.2	50000.0	54013.53	108.0	54454.17	108.9	P
Chromium	2500.0	2507.73	100.3	2500.0	2542.90	101.7	2568.17	102.7	P
Cobalt	2500.0	2481.40	99.3	2500.0	2541.07	101.6	2569.80	102.8	P
Copper	2500.0	2499.53	100.0	2500.0	2445.77	97.8	2512.40	100.5	P
Iron	50000.0	50835.83	101.7	50000.0	51438.90	102.9	51816.93	103.6	P
Lead	500.0	470.56	94.1	500.0	487.07	97.4	491.25	98.2	P
Magnesium	50000.0	48935.00	97.9	50000.0	50736.97	101.5	51064.77	102.1	P
Manganese	2500.0	2492.33	99.7	2500.0	2518.53	100.7	2547.23	101.9	P
Mercury	6.0	6.05	100.8	6.0	6.17	102.8	6.53	108.8	CV
Nickel	2500.0	2476.80	99.1	2500.0	2534.37	101.4	2560.73	102.4	P
Potassium	80000.0	80869.70	101.1	80000.0	80104.50	100.1	82269.73	102.8	P
Selenium	500.0	487.12	97.4	500.0	495.45	99.1	502.66	100.5	P
Silver	1000.0	1001.91	100.2	1000.0	992.89	99.3	1015.80	101.6	P
Sodium	80000.0	80792.53	101.0	80000.0	80434.77	100.5	83097.77	103.9	P
Thallium	500.0	481.97	96.4	500.0	489.75	98.0	494.04	98.8	P
Vanadium	2500.0	2466.30	98.7	2500.0	2483.30	99.3	2516.80	100.7	P
Zinc	2500.0	2548.20	101.9	2500.0	2595.83	103.8	2637.20	105.5	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				50000.0	50276.80	100.6			P
Antimony				1000.0	1006.10	100.6			P
Arsenic				500.0	484.19	96.8			P
Barium				2500.0	2457.33	98.3			P
Beryllium				2500.0	2510.97	100.4			P
Cadmium				2500.0	2470.80	98.8			P
Calcium				50000.0	52403.40	104.8			P
Chromium				2500.0	2470.00	98.8			P
Cobalt				2500.0	2471.23	98.8			P
Copper				2500.0	2438.23	97.5			P
Iron				50000.0	49588.33	99.2			P
Lead				500.0	470.92	94.2			P
Magnesium				50000.0	49367.37	98.7			P
Manganese				2500.0	2455.93	98.2			P
Mercury				6.0	6.38	106.3	6.14	102.3	CV
Nickel				2500.0	2451.67	98.1			P
Potassium				80000.0	79699.20	99.6			P
Selenium				500.0	483.41	96.7			P
Silver				1000.0	987.84	98.8			P
Sodium				80000.0	80530.07	100.7			P
Thallium				500.0	477.50	95.5			P
Vanadium				2500.0	2427.57	97.1			P
Zinc				2500.0	2540.37	101.6			P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	2500.0	2502.57	100.1	2500.0	2547.03	101.9	2451.13	98.0	P
Lead									
Magnesium									
Manganese									
Mercury				6.0	6.26	104.3			CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium	2500.0	2603.63	104.1	2500.0	2687.73	107.5	2698.03	107.9	P
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron				2500.0	2463.03	98.5			P
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium				2500.0	2686.97	107.5			P
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

M 0010

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

AA CRDL Standard Source: HIGH PURITY

ICP CRDL Standard Source: HIGH PURITY

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP True	Initial Found	%R	Final Found	%R
Aluminum					-2.87		16.07	
Antimony				120.0	123.77	103.1	125.66	104.7
Arsenic				20.0	20.77	103.8	20.81	104.0
Barium					-0.17		-0.27	
Beryllium				10.0	10.40	104.0	10.40	104.0
Cadmium				10.0	10.83	108.3	10.90	109.0
Calcium					30.83		29.83	
Chromium				20.0	21.07	105.4	20.93	104.6
Cobalt				100.0	105.83	105.8	107.03	107.0
Copper				50.0	49.77	99.5	50.53	101.1
Iron					8.00		106.33	
Lead				6.0	6.79	113.2	6.35	105.8
Magnesium					8.53		5.73	
Manganese				30.0	31.30	104.3	31.63	105.4
Mercury								
Nickel				80.0	85.43	106.8	85.37	106.7
Potassium					39.03		16.43	
Selenium				10.0	9.82	98.2	9.43	94.3
Silver				20.0	19.57	97.8	19.55	97.8
Sodium					72.90		55.97	
Thallium				20.0	20.25	101.2	22.05	110.2
Vanadium				100.0	99.93	99.9	100.80	100.8
Zinc				40.0	50.83	127.1	48.60	121.5

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	14.6	U	24.5	B	14.6	U	23.8	B	2.920	U	P
Antimony	2.8	U	2.8	U	2.8	U	2.8	U	0.560	U	P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Barium	0.8	U	0.8	U	0.8	U	0.8	U	-0.247	B	P
Beryllium	0.3	B	0.3	B	0.2	B	0.2	B	-0.047	B	P
Cadmium	0.5	B	0.6	B	0.6	B	0.5	B	0.153	B	P
Calcium	28.7	U	46.0	B	28.7	U	46.6	B	15.847	B	P
Chromium	0.4	U	0.4	B	0.4	U	0.4	B	0.187	B	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Copper	-0.8	B	0.4	U	0.4	U	0.9	B	-0.160	B	P
Iron	9.6	B	18.3	B	9.9	B	19.0	B	1.187	B	P
Lead	0.7	U	0.7	U	0.8	B	0.7	U	0.164	B	P
Magnesium	22.7	U	34.6	B	22.7	U	35.8	B	4.540	U	P
Manganese	0.3	B	0.5	B	0.4	B	0.4	B	0.060	U	P
Mercury	-0.1	B	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	1.6	U	1.6	U	1.6	U	1.6	U	0.320	U	P
Potassium	16.9	U	16.9	U	16.9	U	16.9	U	3.380	U	P
Selenium	1.7	U	1.7	U	1.7	U	1.7	U	0.340	U	P
Silver	-1.2	B	0.5	U	0.5	U	0.7	B	0.110	B	P
Sodium	40.1	B	54.8	B	40.5	B	47.7	B	30.800	B	P
Thallium	2.5	B	1.7	B	1.6	B	2.2	B	0.564	B	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.220	B	P
Zinc	0.6	U	0.6	U	0.6	U	0.9	B	0.827	B	P
Cyanide											

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury			-0.1	B	-0.1	B					CV
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

CP ID Number: TJA61E ICS Source: HIGH PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	498566	513918.9	102.8	510601	506009.4	101.2
Antimony			-1	-6.8		0	-6.7	
Arsenic		1000	2	1000.3	100.0	1	968.9	96.9
Barium		500	8	502.1	100.4	9	502.9	100.6
Beryllium		500	2	514.7	102.9	2	500.4	100.1
Cadmium		1000	-2	962.7	96.3	-1	922.8	92.3
Calcium	500000	500000	554053	572340.0	114.5	554874	549049.7	109.8
Chromium		500	1	488.0	97.6	0	472.9	94.6
Cobalt		500	3	476.5	95.3	3	463.7	92.7
Copper		500	-5	500.5	100.1	-5	501.0	100.2
Iron	200000	200000	208344	215114.2	107.6	207245	205278.3	102.6
Lead		1000	2	929.9	93.0	1	903.3	90.3
Magnesium	500000	500000	535053	551396.5	110.3	537464	533289.1	106.7
Manganese		500	14	502.2	100.4	9	483.7	96.7
Mercury								
Nickel		1000	3	944.5	94.4	4	913.8	91.4
Potassium			78	6.7		79	4.1	
Selenium		1000	1	975.5	97.6	-1	954.9	95.5
Silver		1000	3	1026.7	102.7	2	1021.4	102.1
Sodium			118	53.3		116	45.6	
Thallium		1000	6	924.1	92.4	5	893.6	89.4
Vanadium		500	0	480.0	96.0	0	469.6	93.9
Zinc		1000	0	1025.8	102.6	1	1006.3	100.6

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60240S

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	76.3144		0.5720	U	102.14	74.7	N	P
Arsenic	75-125	380.0277		0.4494	U	408.58	93.0		P
Barium	75-125	393.6330		5.7814	B	408.58	94.9		P
Beryllium	75-125	10.0170		0.1089	B	10.21	97.0		P
Cadmium	75-125	10.0238		0.0817	U	10.21	98.2		P
Calcium									NR
Chromium	75-125	44.3309		17.6098		40.86	65.4	N	P
Cobalt	75-125	100.0068		0.9738	B	102.14	97.0		P
Copper	75-125	50.5346		3.0712	B	51.07	92.9		P
Iron									NR
Lead	75-125	97.5292		1.2839		102.14	94.2		P
Magnesium									NR
Manganese	75-125	132.8090		36.0708		102.14	94.7		P
Mercury	75-125	0.4982		0.0444	U	0.44	113.2		CV
Nickel	75-125	101.5322		2.7239	B	102.14	96.7		P
Potassium									NR
Selenium	75-125	370.1066		0.3473	U	408.58	90.6		P
Silver	75-125	9.5485		0.1021	U	10.21	93.5		P
Sodium									NR
Thallium	75-125	374.8719		0.3096	B	408.58	91.7		P
Vanadium	75-125	100.1566		4.5965	B	102.14	93.6		P
Zinc	75-125	107.6200		6.0198		102.14	99.5		P
Cyanide									NR

omments:

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60240A

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		120.69		2.80	U	120.0	100.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		285.63		86.20		200.0	99.7		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

B60240D

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 97.9 % Solids for Duplicate: 97.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1339.1352		1393.6534		4.0		P
Antimony		0.5720	U	0.5720	U			P
Arsenic		0.4494	U	0.6978	B	200.0		P
Barium		5.7814	B	6.1083	B	5.5		P
Beryllium		0.1089	B	0.1089	B	0.0		P
Cadmium		0.0817	U	0.0817	U			P
Calcium		168.9683	B	268.3963	B	45.5		P
Chromium	2.0	17.6098		8.6347		68.4	*	P
Cobalt		0.9738	B	0.9534	B	2.1		P
Copper		3.0712	B	3.0031	B	2.2		P
Iron		3585.0392		4491.8693		22.5	*	P
Lead	0.6	1.2839		1.2971		1.0		P
Magnesium		348.8730	B	384.3105	B	9.7		P
Manganese		36.0708		38.7743		7.2		P
Mercury		0.0444	U	0.0444	U			CV
Nickel		2.7239	B	2.3221	B	15.9		P
Potassium		230.2281	B	218.5155	B	5.2		P
Selenium		0.3473	U	0.3473	U			P
Silver		0.1021	U	0.1021	U			P
Sodium		38.2976	B	40.1566	B	4.7		P
Thallium		0.3096	B	0.5067	B	48.3		P
Vanadium		4.5965	B	4.4944	B	2.2		P
Zinc	4.1	6.0198		6.0334		0.2		P
Cyanide								

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Solid LCS Source: ERA230/224

Aqueous LCS Source: HIGH PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				6210.0	6577.1		3870.0	8570.0	105.9
Antimony				51.2	28.4		12.2	90.1	55.5
Arsenic				62.7	59.4		43.9	81.5	94.7
Barium				260.0	235.7		190.0	330.0	90.7
Beryllium				87.2	84.8		67.0	107.0	97.2
Cadmium				77.4	73.1		51.4	103.0	94.4
Calcium				2760.0	2791.3		1770.0	3750.0	101.1
Chromium				76.9	71.5		59.4	94.6	93.0
Cobalt				101.0	97.6		76.8	125.0	96.6
Copper				58.2	51.0		45.9	70.4	87.6
Iron				15300.0	14836.6		8840.0	21700.0	97.0
Lead				122.0	105.3		82.7	160.0	86.3
Magnesium				1800.0	1714.6		1440.0	2160.0	95.3
Manganese				232.0	228.3		178.0	285.0	98.4
Mercury				2.5	2.4		1.6	3.4	96.0
Nickel				163.0	155.7		122.0	204.0	95.5
Potassium				2020.0	2069.1		1410.0	2630.0	102.4
Selenium				91.7	83.5		65.5	118.0	91.1
Silver				69.6	67.2		51.4	87.7	96.6
Sodium				474.0	424.5	B	305.0	645.0	89.6
Thallium				50.5	49.3		24.0	76.8	97.6
Vanadium				142.0	135.3		89.2	195.0	95.3
Zinc				114.0	110.1		84.1	144.0	96.6
Cyanide									

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

8

STANDARD ADDITION RESULTS

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

FORM VIII - IN

M 0019

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

B60240L

ab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

atrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6555.07		6670.00		1.8		P
Antimony	2.80	U	14.00	U			P
Arsenic	2.20	U	11.00	U			P
Barium	28.30	B	31.00	B	9.5		P
Beryllium	0.53	B	0.50	U	100.0		P
Cadmium	0.40	U	2.00	U			P
Calcium	827.10	B	904.83	B	9.4		P
Chromium	86.20		85.00		1.4		P
Cobalt	4.77	B	5.50	B	15.3		P
Copper	15.03	B	15.83	B	5.3		P
Iron	17548.77		17346.50		1.2		P
Lead	6.28		8.08	B	28.7		P
Magnesium	1707.73	B	1752.33	B	2.6		P
Manganese	176.57		179.83		1.8		P
Mercury							
Nickel	13.33	B	14.33	B	7.5		P
Potassium	1126.97	B	1140.83	B	1.2		P
Selenium	1.70	U	8.50	U			P
Silver	0.50	U	2.50	U			P
Sodium	187.47	B	360.83	B	92.5		P
Thallium	1.52	B	20.25	B	1232		P
Vanadium	22.50	B	24.67	B	9.6		P
Zinc	29.47		37.33	B	26.7		P

3/5/97

FORM IX - IN

M 0020

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

ICP ID Number: Date: 01/09/97

Flame AA ID Number: LEEMAN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	254.00		0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:
NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

CP ID Number: TJA61E Date: 01/03/97

Flame AA ID Number:

urnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	14.6	P
Antimony	206.84		60.0	2.8	P
Arsenic	189.04		10.0	2.2	P
Barium	493.41		200.0	0.8	P
Beryllium	313.04		5.0	0.1	P
Cadmium	226.50		5.0	0.4	P
Calcium	317.93		5000.0	28.7	P
Chromium	267.72		10.0	0.4	P
Cobalt	228.62		50.0	1.0	P
Copper	324.75		25.0	0.4	P
Iron	259.94		100.0	2.6	P
Lead	220.35		3.0	0.7	P
Magnesium	279.08		5000.0	22.7	P
Manganese	257.61		15.0	0.3	P
Mercury			0.2		
Nickel	231.60		40.0	1.6	P
Potassium	766.49		5000.0	16.9	P
Selenium	196.03		5.0	1.7	P
Silver	328.07		10.0	0.5	P
Sodium	589.00		5000.0	5.3	P
Thallium	190.86		10.0	1.3	P
Vanadium	292.40		50.0	1.1	P
Zinc	213.86		20.0	0.6	P
Cyanide	578.00		10.0	10.0	CA

omments:

NYSDEC ASP REV. 9/93 REQUIRES IDLs PERFORMED SEMIANNUALLY.
ANTIMONY, LEAD & SELENIUM USE FIRST & SECOND ORDER FOR ANALYSIS.
CYANIDE IDL = 1/20/97.
IRON(271.4) IDL = 18.6, SODIUM(330.2) IDL = 55.8.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (Annually)

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

ICP ID Number: TJA61E Date: 03/23/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	MN
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0346920	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000
Calcium	317.93	0.0003660	0.0000000	0.0007150	0.0000000	0.0000000
Chromium	267.72	0.0000070	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0020000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	-0.0033900
Lead	220.35	0.7224670	0.0000000	-0.7617130	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0002730	0.0000000	-0.0041600
Manganese	257.61	0.0000000	0.0000000	-0.0000470	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0097840	0.0000000	-0.0369700	0.0000000	0.4170000
Silver	328.07	0.0000000	0.0000000	-0.2467100	0.0000000	0.1595850
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000190	0.0000000	-0.0631180	0.0000000	-0.7661000
Vanadium	292.40	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Zinc	213.86	0.0000420	0.0000000	0.0000890	0.0000000	0.0000000
Cyanide						

Comments:

SECOND ORDER WAVELENGTH CORRECTIONS ARE AS FOLLOWS: ANTIMONY NONE; LEAD -0.387052 FOR ALUMINUM AND 0.470726 FOR IRON, AND SELENIUM -0.3895 FOR MANGANESE AND -0.361719 FOR IRON.

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: H2M LABS, INC. Contract: C003180

ab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

CP ID Number: TJA61E Date: 01/10/97

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	625000.0	P
Antimony	15.00	5000.0	P
Arsenic	15.00	25000.0	P
Barium	15.00	20000.0	P
Beryllium	15.00	10000.0	P
Cadmium	15.00	25000.0	P
Calcium	15.00	625000.0	P
Chromium	15.00	25000.0	P
Cobalt	15.00	25000.0	P
Copper	15.00	25000.0	P
Iron	15.00	300000.0	P
Lead	15.00	25000.0	P
Magnesium	15.00	625000.0	P
Manganese	15.00	25000.0	P
Mercury			
Nickel	15.00	25000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	25000.0	P
Silver	15.00	5000.0	P
Sodium	15.00	225000.0	P
Thallium	15.00	25000.0	P
Vanadium	15.00	25000.0	P
Zinc	15.00	10000.0	P
Cyanide			

omments:

NYSDEC ASP REV. 9/93 REQUIRES LINEAR RANGE PERFORMED SEMIANNUALLY.
IRON(259.940) = 25000. SODIUM(588.995) = 25000

13

Preparation Log

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Method: CV

Sample No.	Preparation Date	Weight (gram)	Volume (ml)
B60240	01/30/97	0.23	100
B60240D	01/30/97	0.23	100
B60240S	01/30/97	0.23	100
CCB1	01/30/97		100
CCB2	01/30/97		100
CCB3	01/30/97		100
CCB4	01/30/97		100
CCB5	01/30/97		100
CCV1	01/30/97		100
CCV2	01/30/97		100
CCV3	01/30/97		100
CCV4	01/30/97		100
CCV5	01/30/97		100
ICB	01/30/97		100
ICV	01/30/97		100
LCSS	01/30/97	0.20	100
PBS	01/30/97	0.20	100

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

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Preparation Log

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124

Method: P

Sample No.	Preparation Date	Weight (gram)	Volume (ml)
B60240	02/18/97	1.00	200
B60240D	02/18/97	1.00	200
B60240S	02/18/97	1.00	200
LCSS	02/18/97	1.00	200
PBS	02/18/97	1.00	200

FORM XIII - IN

M 0026

H2M LABS, INC.

14

Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124
Instrument ID Number: TJA61E Method: P
Start Date: 02/26/97 End Date: 02/26/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1111		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1119			X																	X				
S	1.00	1125		X						X				X		X										
S	1.00	1131				X									X						X		X			
S	1.00	1137					X	X	X		X	X	X				X		X					X	X	
S	1.00	1145												X								X				
S	1.00	1150																		X		X				
ICV	1.00	1200		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICVL	5.00	1207												X								X				
ICB	1.00	1214		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRII	1.00	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAI	1.00	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1247		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1255		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCVL1	1.00	1302												X								X				
CCB1	1.00	1309		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1326																									
PBS	1.00	1334		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1341																									
LCSS	1.00	1348		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1355																									
ZZZZZZ	1.00	1403																									
ZZZZZZ	1.00	1410																									
ZZZZZZ	1.00	1417																									
ZZZZZZ	1.00	1425																									
ZZZZZZ	1.00	1432																									
CCV2	1.00	1439		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCVL2	1.00	1446												X								X				
CCB2	1.00	1454		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
B60240	1.00	1501		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
B60240D	1.00	1508		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
B60240S	1.00	1516			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124
Instrument ID Number: TJA61E Method: P
Start Date: 02/26/97 End Date: 02/26/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
B 0240L	5.00	1523		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
B 0240A	1.00	1530		_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1537		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Z ZZZ	1.00	1545																									
C F	1.00	1552		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAF	1.00	1606		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
I SABF	1.00	1613		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
C 3	1.00	1620		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCVL3	1.00	1628												X				_					X				_
CCB3	1.00	1635		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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M 0028

H2M LABS, INC.

14

Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124
Instrument ID Number: LEEMAN Method: CV
Start Date: 01/31/97 End Date: 01/31/97

Sample No.	D/F	Time	%R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0758																X								
S0.2	1.00	0801																X								
S1	1.00	0803																X								
S2	1.00	0806																X								
S5	1.00	0808																X								
S10	1.00	0811																X								
ICV	1.00	0814																X								
ICB	1.00	0816																X								
CCV1	1.00	0819																X								
CCB1	1.00	0821																X								
ZZZZZZ	1.00	0824																								
ZZZZZZ	1.00	0826																								
PBS	1.00	0828																X								
LCSS	1.00	0830																X								
ZZZZZZ	1.00	0833																								
ZZZZZZ	1.00	0835																								
ZZZZZZ	1.00	0838																								
ZZZZZZ	1.00	0840																								
ZZZZZZ	1.00	0842																								
ZZZZZZ	1.00	0844																								
CCV2	1.00	0847																X								
CCB2	1.00	0849																X								
ZZZZZZ	1.00	0852																								
ZZZZZZ	1.00	0854																								
ZZZZZZ	1.00	0856																								
ZZZZZZ	1.00	0858																								
ZZZZZZ	1.00	0901																								
ZZZZZZ	1.00	0903																								
ZZZZZZ	1.00	0905																								
ZZZZZZ	1.00	0907																								
ZZZZZZ	1.00	0909																								
ZZZZZZ	1.00	0912																								

N 0029

H2M LABS, INC.

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Analysis Run Log

Lab Name: H2M LABS, INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: XX0124
Instrument ID Number: LEEMAN Method: CV
Start Date: 01/31/97 End Date: 01/31/97

Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CC 3	1.00	0914																X									
CC 3	1.00	0916																X									
ZZZZZZ	1.00	0919																									
ZZ ZZZ	1.00	0921																									
ZZ ZZZ	1.00	0923																									
ZZZZZZ	1.00	0925																									
ZZ ZZZ	1.00	0928																									
ZZ ZZZ	1.00	0930																									
ZZZZZZ	1.00	0932																									
ZZZZZZ	1.00	0934																									
ZZ ZZZ	1.00	0937																									
ZZ ZZZ	1.00	0939																									
CCV4	1.00	0941																X									
CC 4	1.00	0944																X									
ZZ ZZZ	1.00	0946																									
ZZZZZZ	1.00	0948																									
ZZ ZZZ	1.00	0950																									
ZZ ZZZ	1.00	0953																									
ZZ ZZZ	1.00	0955																									
ZZZZZZ	1.00	0957																									
ZZ ZZZ	1.00	0959																									
B6 240	1.00	1002																X									
B60240D	1.00	1004																X									
B6 240S	1.00	1006																X									
CC 5	1.00	1008																X									
CCB5	1.00	1011																X									

III. RAW DATA FOR METALS

A. ICP DATA
B. MERCURY DATA

H2M LABS, INC.

Standards Rec'd: 2/26/97
Source: High Purity

CLIENT NOEC0220 (Case# RS696)
NOEC124 (Case# RAC96)
NOEC0122 (RAC96) Fe Dilutions

DATE 2/27/97

TASK: PROFCLP2 (Autosampler)

RESULT FILE: RS896.ASC

ANALYST CG

TraceLE

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702305L	B602401
2	ICVL		27	9702305P	B602401; Cr = +0.20 mg/L Sb = +120 mg/L
3	ICB		28	9702040	B602231; Fe Dilution (1:20)
4	CRII		29	9702042	B602241, Fe Dilution (1:2)
5	ICSAI		30	CRIF	
6	ICSABI		31	ICSAF	
7	CCV1		32	ICSABF	
8	CCVL1		33	CCV3	
9	CCB1		34	CCVL3	
10	PBS1	DEC0220 2/18/97	35	CCB3	
11	PBS2	DEC124 2/15/97	36		
12	LCSS1	DEC0220	37		
13	LCSS2	DEC124	38		
14	9702234	XXCC12	39		
15	9702234D	XXCC12D	40		
16	9702234S	XXCC12S	41		
17	9702235	XXDC13	42		
18	9702236	XXDC14	43		
19	9702235L	XXDC13L	44		
20	CCV2		45		
21	CCVL2		46		
22	CCB2		47		
23	9702305	B602401	48		
24	9702305D	B602401D	49		
25	9702305S	B602401S	50		

N 0032

P 0065

ThermoJarrell Ash
AutoSampler Report Table: RS896 Wed 02-26-97 01:18:19 PM page 1
Trace GLE
Table Name: RS896 Autosampler Type: TYPE IIA
Sample Positions: 51/96 QC Positions: 19/19 # Sets: 1
Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (28mm)	Samples	0	1
3	Sample (28mm)	Samples	3	1
4	Sample (28mm)	Samples	24	1
5	Sample (28mm)	Samples	24	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		PROFCLP2	45	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor

No Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...19	Not Used)					

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICV	1	-NA-	Sample
2	1	2	ICVL	1	-NA-	Sample
3	1	3	ICB	1	-NA-	Sample
4	1	4	CRII	1	-NA-	Sample
5	1	5	ICSAI	1	-NA-	Sample
6	1	6	ICSABI	1	-NA-	Sample
7	1	7	CCV1	1	-NA-	Sample
8	1	8	CCVL1	1	-NA-	Sample
9	2	1	CCB1	1	-NA-	Sample
10	2	2	PBS1	1	-NA-	Sample
11	2	3	PBS2	1	-NA-	Sample
12	2	4	LCSS1	1	-NA-	Sample
13	2	5	LCSS2	1	-NA-	Sample
14	2	6	XX0012	1	-NA-	Sample
15	2	7	XX0012D	1	-NA-	Sample
16	2	8	XX0012S	1	-NA-	Sample
17	3	1	XX0013	1	-NA-	Sample
18	3	2	XX0014	1	-NA-	Sample
19	3	3	XX0013L	1	-NA-	Sample
20	3	4	CCV2	1	-NA-	Sample
21	3	5	CCVL2	1	-NA-	Sample

M 0033

ck #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
2	3	6	CCB2	1	-NA-	Sample
23	3	7	B60240	1	-NA-	Sample
4	3	8	B60240D	1	-NA-	Sample

Rack #3

s	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	B60240S	1	-NA-	Sample
2	1	2	B60240L	1	-NA-	Sample
3	1	3	B60240P	1	-NA-	Sample
4	1	4	B60223	1	-NA-	Sample
5	1	5	B60224	1	-NA-	Sample
6	1	6	CRIF	1	-NA-	Sample
7	1	7	ICSAF	1	-NA-	Sample
8	1	8	ICSABF	1	-NA-	Sample
9	2	1	CCV3	1	-NA-	Sample
0	2	2	CCVL3	1	-NA-	Sample
11	2	3	CCB3	1	-NA-	Sample
12	2	4	(empty)	1	-NA-	-NA-
3	2	5	(empty)	1	-NA-	-NA-
14	2	6	(empty)	1	-NA-	-NA-
15	2	7	(empty)	1	-NA-	-NA-
6	2	8	(empty)	1	-NA-	-NA-
7	3	1	(empty)	1	-NA-	-NA-
18	3	2	(empty)	1	-NA-	-NA-
19	3	3	(empty)	1	-NA-	-NA-
0	3	4	(empty)	1	-NA-	-NA-
21	3	5	(empty)	1	-NA-	-NA-

(22...24 Not Used)

ck #4

s	Row	Col	Sample Name	Set #	#Used	Type

(1...24 Not Used)

ck #5

Pos	Row	Col	Sample Name	Set #	#Used	Type

...24 Not Used)

H2M LABS, INC.

SDG NO.: NDEC01220, NDEC124
DATE: 2/26/97
ANALYST: CGZ
ELEMENT: TCL Metals

METALS QC CHECKLIST

	YES	NO	NA
GENERAL			
1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE	✓		
1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB?	✓		
2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION	✓		
3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION	✓		
4. ARE THE "S" SPIKE RECOVERIES CHECKED?	✓		
5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL?	✓		
6. IS THE PREP BLANK LABELLED AS WATER OR SOIL?	✓		
7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES?		✓	
8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY?			✓
9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID?	✓		
10. ARE ALL PAGES SIGNED AND DATED?	✓		
11. WAS A CRA/CRI STD. ANALYZED?	✓		
12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.?	✓		
13. IS THE INITIAL CAL. COEFF. > 0.995?	✓		
14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE?			✓
FURNACE			
15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE			
16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE			
17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE			
18. DID ANY SAMPLES REQUIRE MSA ANALYSIS?			
19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN?			
20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB?			
ICP			
21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA?			✓
22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION?	✓		

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA RECOVERY <40% , DILUTE, SPIKE, REANALYZE

M 0035

Thermo Jarrell Ash
Standardization Rpt.
Trace ME
ethod: PROFCLP2 Standard: BLANK

NDEC 1.22 (RSEQ96)
NDEC 124 (RAVG96)
Wed 02-26-97 11:18:57 AM page 1
Data File: RSEQ96.ASC

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Avge	-.00004	.0040	-.00075	.0015	.0224	-.0020	.0141
SDev	.00016	.0001	.00126	.0002	.0001	.0001	.0003
%RSD	365.86	3.527	167.07	10.37	.4849	4.918	1.846
#1	.00003	.0039	.00013	.0016	.0225	-.0019	.0142
#2	-.00023	.0041	-.00220	.0016	.0223	-.0021	.0138
#3	.00007	.0038	-.00020	.0013	.0224	-.0019	.0143

Elem	Cd	Co	Cr	Cu	Fe	Fe	K
Avge	-.0016	.0002	.0005	.0034	-.0001	.0200	.0125
SDev	.0009	.0004	.0005	.0001	.0000	.0007	.0033
%RSD	54.56	237.3	86.66	1.533	34.88	3.440	26.67
#1	-.0018	.0005	.0008	.0035	-.0001	.0194	.0145
#2	-.0024	-.0003	.0000	.0034	-.0001	.0199	.0086
#3	-.0007	.0004	.0008	.0035	-.0000	.0207	.0142

Elem	Mg	Mn	Mo2020	Na	Na	Ni	2203/1
Avge	.0010	.0051	.0011	-.0384	1.052	.0028	.03021
SDev	.0013	.0015	.0004	.0125	.019	.0003	.00791
%RSD	130.1	29.02	41.64	32.55	1.828	10.70	26.201
#1	.0017	.0061	.0014	-.0309	1.041	.0030	.03313
#2	-.0005	.0034	.0006	-.0529	1.041	.0024	.03624
#3	.0018	.0059	.0013	-.0315	1.074	.0029	.02125

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Sn1899	Sr4215
Avge	-.00479	-.00791	.00219	-.00529	.00127	.0055	.0004
SDev	.00266	.00392	.00200	.00286	.00158	.0060	.0004
%RSD	55.587	49.604	91.165	54.083	124.22	109.4	101.7
#1	-.00578	-.01085	.00398	-.00247	.00049	.0078	.0006
#2	-.00682	-.00942	.00003	-.00523	.00023	-.0013	-.0001
#3	-.00178	-.00345	.00257	-.00819	.00309	.0100	.0006

Elem	Ti	Tl1908	V	Zn
Avge	-.0000	-.01066	-.0000	.0030
SDev	.0000	.00107	.0001	.0001
%RSD	86.61	9.9918	348.0	4.381
#1	-.0001	-.01137	.0000	.0031
#2	-.0001	-.01118	.0000	.0029
#3	.0000	-.00944	-.0002	.0030

M 0036

Method: PROFCLP2 Standard: AGSBH

Elem	Ag	2068/1	2068/2
Avge	.76576	3.6233	1.8876
SDev	.00173	.0130	.0132
%RSD	.22610	.35850	.70189
#1	.76564	3.6184	1.8810
#2	.76755	3.6135	1.9028
#3	.76410	3.6381	1.8789

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29650	--	--	--	--	--	--
SDev	125.7463	--	--	--	--	--	--
%RSD	.4241004	--	--	--	--	--	--
#1	29778	--	--	--	--	--	--
#2	29646	--	--	--	--	--	--
#3	29526	--	--	--	--	--	--

Method: PROFCLP2 Standard: ICSH

Elem	Al	Ca	Fe	Mg
Avge	34.09	61.18	.6415	68.41
SDev	.01	.24	.0024	.30
%RSD	.0171	.3901	.3791	.4392
#1	34.09	61.46	.6443	68.76
#2	34.10	61.05	.6405	68.25
#3	34.09	61.04	.6398	68.23

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28927	--	--	--	--	--	--
SDev	162.6101	--	--	--	--	--	--
%RSD	.5621422	--	--	--	--	--	--
#1	29096	--	--	--	--	--	--
#2	28912	--	--	--	--	--	--
#3	28772	--	--	--	--	--	--

Method: PROFCLP2 Standard: FURNH

Elem	As1890	2203/1	2203/2	1960/1	1960/2	T11908
Avge	1.3959	5.7397	2.5375	.83651	.63185	2.0884
SDev	.0107	.0185	.0412	.00441	.00598	.0173
%RSD	.76593	.32200	1.6241	.52693	.94585	.82623
#1	1.3849	5.7186	2.5175	.83525	.62733	2.0766
#2	1.3968	5.7528	2.5101	.84141	.62959	2.0804
#3	1.4062	5.7477	2.5849	.83287	.63862	2.1082

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30058	--	--	--	--	--	--
SDev	202.7849	--	--	--	--	--	--
%RSD	.6746557	--	--	--	--	--	--
#1	29823	--	--	--	--	--	--
#2	30172	--	--	--	--	--	--
#3	30177	--	--	--	--	--	--

Method: PROFCLP2 Standard: MULTIH

Elem	B	Ba	Be	Cd	Co	Cr	Cu
Avge	1.478	6.094	8.546	84.88	2.328	2.732	1.446
SDev	.004	.014	.017	.27	.007	.004	.001
%RSD	.2642	.2315	.1967	.3150	.2868	.1538	.0957
#1	1.476	6.086	8.553	85.06	2.329	2.735	1.445
#2	1.482	6.086	8.559	85.02	2.334	2.734	1.445
#3	1.475	6.110	8.527	84.58	2.321	2.727	1.448

Elem	Mn	Mo2020	Ni	Sn1899	Sr4215	Ti	V
Avge	18.95	2.646	2.240	17.48	10.16	2.358	1.213
SDev	.03	.004	.006	.06	.02	.001	.001
%RSD	.1392	.1485	.2603	.3491	.2180	.0472	.0593
#1	18.96	2.649	2.244	17.49	10.14	2.356	1.212
#2	18.97	2.647	2.242	17.54	10.15	2.358	1.213
#3	18.92	2.641	2.233	17.42	10.18	2.358	1.212

Elem	Zn
Avge	4.470
SDev	.009
%RSD	.1977
#1	4.472
#2	4.477
#3	4.460

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30587	--	--	--	--	--	--
SDev	211.1089	--	--	--	--	--	--
%RSD	.6901810	--	--	--	--	--	--
#1	30693	--	--	--	--	--	--
#2	30725	--	--	--	--	--	--
#3	30344	--	--	--	--	--	--

Method: PROFCLP2 Standard: FeNaL

Elem	Fe	Na
Avge	45.29	46.37
SDev	.18	.12
%RSD	.3923	.2531
#1	45.13	46.33
#2	45.27	46.28
#3	45.48	46.51

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30460	--	--	--	--	--	--
SDev	62.71957	--	--	--	--	--	--
%RSD	.2059066	--	--	--	--	--	--
#1	30522	--	--	--	--	--	--
#2	30462	--	--	--	--	--	--
#3	30397	--	--	--	--	--	--

Method: PROFCLP2 Standard: NAK100

Elem	K	Na
Avge	20.37	6.294
SDev	.05	.013
%RSD	.2294	.2042
#1	20.40	6.305
#2	20.31	6.296
#3	20.38	6.280

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30433	--	--	--	--	--	--
SDev	136.9599	--	--	--	--	--	--
%RSD	.4500317	--	--	--	--	--	--
#1	30308	--	--	--	--	--	--
#2	30580	--	--	--	--	--	--
#3	30412	--	--	--	--	--	--

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Method: PROFCLP2 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	AGSBH	BLANK	2611.63	.116930	02/26/97 11:50:04
Al	308.215	ICSH	BLANK	1.22024	.000416	02/26/97 11:50:04
As1890	139.042	FURNH	BLANK	715.973	.539930	02/26/97 11:50:04
B	249.678	MULTIH	BLANK	3.38738	-.005182	02/26/97 11:50:04
Ba	493.409	MULTIH	BLANK	.823476	-.018421	02/26/97 11:50:04
Be	313.042	MULTIH	BLANK	.584906	.001146	02/26/97 11:50:04
Ca	317.933	ICSH	BLANK	.658291	.000995	02/26/97 11:50:04
Cd	226.502	MULTIH	BLANK	.058903	.000095	02/26/97 11:50:04
Co	228.616	MULTIH	BLANK	2.14760	-.000374	02/26/97 11:50:04
Cr	267.716	MULTIH	BLANK	1.83063	-.000983	02/26/97 11:50:04
Cu	324.754	MULTIH	BLANK	3.46572	-.011859	02/26/97 11:50:04
Fe	271.441	ICSH	BLANK	.753445	-.000055	02/26/97 11:50:04
Fe	259.940	FeNaL	BLANK	.110437	-.002207	02/26/97 11:50:04
K	766.491	NAK100	BLANK	1.08377	-.000497	02/26/97 11:50:04
Mg	279.079	ICSH	BLANK	.787283	-.000688	02/26/97 11:50:04
Mn	257.610	MULTIH	BLANK	.263941	-.001357	02/26/97 11:50:04
Mo2020	202.030	MULTIH	BLANK	1.89078	-.002056	02/26/97 11:50:04
Na	330.232	NAK100	BLANK	1.02973	-.008233	02/26/97 11:50:04
Na	588.995	FeNaL	BLANK	.110325	-.116060	02/26/97 11:50:04
Ni	231.604	MULTIH	BLANK	2.23513	-.006195	02/26/97 11:50:04
2203/1	220.351	FURNH	BLANK	175.147	-5.29050	02/26/97 11:50:04
2203/2	220.352	FURNH	BLANK	393.348	1.88585	02/26/97 11:50:04
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
2068/1	206.831	AGSBH	BLANK	550.777	4.35440	02/26/97 11:50:04
2068/2	206.832	AGSBH	BLANK	1060.80	-2.32510	02/26/97 11:50:04
1960/1	196.021	FURNH	BLANK	1187.92	6.28774	02/26/97 11:50:04
1960/2	196.022	FURNH	BLANK	1585.85	-2.01797	02/26/97 11:50:04
Sn1899	189.989	MULTIH	BLANK	.572141	-.003138	02/26/97 11:50:04
Sr4215	421.552	MULTIH	BLANK	.492299	-.000189	02/26/97 11:50:04
Ti	334.941	MULTIH	BLANK	2.12073	.000094	02/26/97 11:50:04
Tl1908	190.864	FURNH	BLANK	476.404	5.08055	02/26/97 11:50:04
V	292.402	MULTIH	BLANK	4.12357	.000135	02/26/97 11:50:04
Zn	213.856	MULTIH	BLANK	1.12004	-.003364	02/26/97 11:50:04

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ethod: PROFCLP2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
g	328.068	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	.000000

lement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
l	308.215	BLANK	.005237	.003951	.001286
		ICSH	41.6027	34.0936	7.50909

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
s1890	189.042	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.000	.000061

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	249.678	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	313.042	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

ement	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Ca	317.933	BLANK	.010280	.014105	-.003825
		ICSH	40.2777	61.1838	-20.9060

lement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	226.502	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	267.716	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

ement	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
d	324.754	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

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Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Fe	271.441	BLANK	-.000096	-.000055	-.000041
		ICSH	.483302	.641529	-.158227

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.940	BLANK	.000000	.000000	-.000000
		FeNaL	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	BLANK	.012997	.012452	.000546
		NAK100	22.0711	20.3655	1.70559

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Mg	279.079	BLANK	.000096	.000995	-.000899
		ICSH	53.8566	68.4090	-14.5524

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.610	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na	330.232	BLANK	-.047814	-.038439	-.009375
		NAK100	6.47239	6.29353	.178859

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.995	BLANK	.000000	.000000	-.000000
		FeNaL	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	-.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
68/1	206.831	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	-.000122

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
60/1	196.021	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1899	189.989	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
4215	421.552	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1908	190.864	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	-.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00300	-.003000

ethod: PROFCLP2 Sample Name: ICV Operator: CGZ
un Time: 02/26/97 12:00:02
Comment:
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1001.9	51.67	484.22	2.504	2.517	2.535	52.61
SDev	1.5	.09	6.00	.009	.011	.028	.69
%RSD	.14903	.1650	1.2393	.3398	.4257	1.112	1.320
#1	1003.6	51.70	487.76	2.510	2.515	2.554	53.08
#2	1000.7	51.58	487.60	2.507	2.507	2.548	52.95
#3	1001.4	51.74	477.29	2.494	2.528	2.502	51.81
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.484	2.481	2.508	2.500	50.84	80.87	48.94
SDev	.044	.028	.026	.012	.58	1.05	.67
%RSD	1.765	1.144	1.029	.4613	1.144	1.297	1.377
#1	2.511	2.501	2.525	2.497	51.23	80.28	49.39
#2	2.507	2.495	2.520	2.489	51.11	80.25	49.25
#3	2.433	2.449	2.478	2.512	50.17	82.08	48.16
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.492	2.468	80.79	2.477	473.49	469.09	470.56
SDev	.020	.024	.20	.036	7.03	4.42	5.26
%RSD	.8211	.9549	.2475	1.437	1.4856	.94247	1.1173
#1	2.507	2.485	80.96	2.503	479.27	471.82	474.30
#2	2.501	2.478	80.57	2.491	475.55	471.46	472.82
#3	2.469	2.441	80.95	2.436	465.66	463.99	464.55
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1014.9	487.12	1023.5	1010.6	479.99	490.73	4.970
SDev	8.5	4.51	6.2	9.6	5.18	4.81	.071
%RSD	.83427	.92642	.60851	.94851	1.0786	.98085	1.422
#1	1022.0	491.51	1028.8	1019.6	482.36	496.08	5.018
#2	1017.1	487.35	1025.0	1013.2	483.37	489.33	5.002
#3	1005.5	482.50	1016.6	999.98	473.94	486.77	4.889
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

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Low	900.00	450.00					
Elem	Sr4215	Ti	T11908	V	Sn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0902	2.487	481.97	2.466	2.548		
SDev	.0007	.008	3.48	.014	.022		
%RSD	.7994	.3265	.72289	.5876	.8810		
#1	-.0898	2.494	483.97	2.477	2.565		
#2	-.0897	2.488	484.00	2.472	2.557		
#3	-.0910	2.478	477.95	2.450	2.523		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30227	--	--	--	--	--	--
SDev	371.4836	--	--	--	--	--	--
%RSD	1.228982	--	--	--	--	--	--
#1	30337	--	--	--	--	--	--
#2	30531	--	--	--	--	--	--
#3	29813	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: ICVL Operator: CGZ
Run Time: 02/26/97 12:07:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.10687	.0217	-.29510	.0039	.0008	.0013	.0476
SDev	2.42381	.0075	3.35252	.0015	.0001	.0002	.0014
%RSD	2268.0	34.26	1136.0	37.07	18.09	16.13	2.990
#1	-2.4578	.0189	-3.9154	.0048	.0009	.0015	.0484
#2	2.3838	.0302	.32789	.0048	.0007	.0013	.0485
#3	-.24652	.0161	2.7022	.0023	.0007	.0011	.0460
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0015	.0015	.0008	2.503	.0619	.0300
SDev	.0004	.0004	.0003	.0014	.009	.0042	.0004
%RSD	33.10	28.58	17.05	186.8	.3472	6.727	1.405
#1	.0011	.0010	.0012	-.0005	2.501	.0607	.0299
#2	.0018	.0019	.0016	.0022	2.512	.0666	.0298
#3	.0010	.0015	.0017	.0006	2.495	.0585	.0305
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0015	.0014	2.604	.0017	-.14298	1.3349	.84310
SDev	.0001	.0001	.012	.0004	2.14646	1.2657	.19601
%RSD	6.819	9.022	.4525	23.24	1501.2	94.815	23.248
#1	.0014	.0014	2.595	.0018	2.1558	-.09935	.65192
#2	.0016	.0013	2.617	.0021	-2.0948	2.2954	.83377
#3	.0014	.0016	2.599	.0013	-.49001	1.8088	1.0436
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.60862	1.5838	-.88817	-.46945	4.4953	.27983	.0026
SDev	.89759	1.2818	.90609	1.77989	2.9641	.49778	.0009
%RSD	147.48	76.121	102.02	379.14	65.938	177.88	36.46
#1	-1.2075	2.7219	-.94048	-1.7905	6.5427	.81395	.0019
#2	-1.0418	2.0785	-.78094	-1.1724	5.8469	.19670	.0021
#3	.42340	.25118	-1.8431	1.5546	1.0963	-.17115	.0037
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

Elem	Sr4215	Ti	T11908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0000	.0015	.97706	.0015	.0015
SDev	.0001	.0005	2.4156	.0011	.0001
%RSD	320.1	34.79	247.23	72.48	5.906
#1	-.0002	.0011	-1.1466	.0009	.0017
#2	.0000	.0021	3.6050	.0027	.0015
#3	.0001	.0013	.47276	.0009	.0015
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30753	--	--	--	--	--	--
SDev	39.24371	--	--	--	--	--	--
%RSD	.1276099	--	--	--	--	--	--
#1	30713	--	--	--	--	--	--
#2	30791	--	--	--	--	--	--
#3	30755	--	--	--	--	--	--

M 0051

Method: PROFCLP2 Sample Name: ICB Operator: CGZ
Run Time: 02/26/97 12:14:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.1771	.0062	.01958	-.0006	-.0001	.0003	.0220
SDev	1.1321	.0029	1.7492	.0012	.0002	.0001	.0029
%RSD	96.182	46.63	8933.7	205.0	166.1	48.29	13.21
#1	-.14181	.0083	1.6524	.0004	.0001	.0004	.0249
#2	-2.3860	.0029	-1.8264	-.0003	-.0003	.0002	.0191
#3	-1.0034	.0073	.23272	-.0019	-.0002	.0002	.0219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0001	-.0000	-.0008	.0096	.0081	.0037
SDev	.0001	.0009	.0012	.0008	.0019	.0169	.0111
%RSD	13.60	789.9	7721.	97.19	19.63	207.9	298.8
#1	.0005	.0007	.0011	.0001	.0118	.0242	.0148
#2	.0005	-.0011	-.0012	-.0014	.0089	-.0096	-.0074
#3	.0004	.0001	.0000	-.0010	.0082	.0098	.0038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0003	.0002	.0401	.0000	-7.5269	3.8636	.07089
SDev	.0005	.0003	.0039	.0009	7.6759	4.2940	.37660
%RSD	152.8	123.4	9.800	2597.	101.98	111.14	531.55
#1	.0008	.0006	.0446	.0008	.69306	-.57136	-.14998
#2	-.0002	.0001	.0373	-.0009	-8.7656	4.1609	-.14332
#3	.0004	.0001	.0384	.0001	-14.508	8.0012	.50596
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		3.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.32595	-.37771	5.6486	-3.8084	-10.950	4.9000	-.0005
SDev	1.70494	.85251	8.6745	2.7591	11.836	4.8495	.0032
%RSD	523.07	225.70	130.47	72.447	108.09	98.969	629.8
#1	-1.3897	.56259	-2.7474	-.71225	2.3596	-.33497	.0019
#2	-1.2287	-1.1001	8.3408	-6.0067	-14.914	5.7959	-.0041
#3	1.6406	-.59559	14.352	-4.7062	-20.295	9.2391	.0008
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

M 0052

Low	-60.000	-5.0000					
Elem	Sr4215	Ti	T11908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0001	.0007	2.4838	.0006	.0005		
SDev	.0003	.0002	1.0080	.0007	.0001		
%RSD	280.6	29.84	40.584	114.1	29.09		
#1	.0001	.0008	1.6484	.0001	.0007		
#2	-.0004	.0004	2.1995	.0014	.0004		
#3	-.0000	.0008	3.6034	.0003	.0005		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30268	--	--	--	--	--	--
SDev	27.29464	--	--	--	--	--	--
%RSD	.0901780	--	--	--	--	--	--
#1	30247	--	--	--	--	--	--
#2	30257	--	--	--	--	--	--
#3	30299	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CRII Operator: CGI
Run Time: 02/26/97 12:21:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.575	-.0029	20.770	.1974	-.0002	.0104	.0308
SDev	1.204	.0001	1.613	.0011	.0002	.0000	.0010
%RSD	6.1526	5.251	7.7683	.5769	120.9	.2903	3.345
#1	20.407	-.0027	19.655	.1967	-.0000	.0104	.0304
#2	20.123	-.0030	22.620	.1987	-.0001	.0104	.0320
#3	18.194	-.0029	20.034	.1968	-.0004	.0104	.0301

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	.1058	.0211	.0498	.0080	.0390	.0086
SDev	.0001	.0009	.0004	.0012	.0005	.0094	.0052
%RSD	1.109	.8898	2.118	2.426	6.565	23.98	61.01
#1	.0107	.1048	.0212	.0503	.0085	.0411	.0106
#2	.0109	.1063	.0214	.0506	.0080	.0472	.0124
#3	.0109	.1064	.0206	.0484	.0075	.0288	.0026

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0313	.0202	.0729	.0854	8.1488	6.1038	6.7851
SDev	.0003	.0006	.0022	.0006	3.0488	1.3220	.1473
%RSD	.9003	3.209	2.983	.6998	37.414	21.658	2.1703
#1	.0312	.0200	.0704	.0852	11.165	4.8503	6.9535
#2	.0316	.0209	.0740	.0861	8.2127	5.9761	6.7212
#3	.0311	.0197	.0743	.0850	5.0685	7.4850	6.6807

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	123.77	9.9220	122.03	124.64	11.986	8.7412	.1645
SDev	1.22	1.1889	4.22	.54	4.204	1.0721	.0022
%RSD	.98330	12.105	3.4596	.43245	35.078	12.265	1.310
#1	122.49	11.154	117.24	125.10	16.638	8.4152	.1620
#2	123.92	8.8670	123.65	124.05	10.863	7.8699	.1661
#3	124.91	9.4453	125.21	124.76	8.4567	9.9385	.1653

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0001	.0984	20.250	.0999	.0508
SDev	.0002	.0003	1.380	.0000	.0003
%RSD	213.8	.3527	6.8130	.0262	.6935
#1	.0001	.0980	19.424	.0999	.0504
#2	.0002	.0985	19.482	.0999	.0511
#3	-.0001	.0986	21.842	.1000	.0510

M 0054

Method: PROFCLP2 Sample Name: ICSAI Operator: CGE
Run Time: 02/26/97 12:40:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.7899	498.6	1.6799	.0035	.0084	.0025	554.1
SDev	.0780	1.1	1.4757	.0009	.0000	.0000	2.2
%RSD	2.7976	.2285	87.845	26.91	.5221	.6799	.3908
#1	2.7974	498.9	.09468	.0041	.0084	.0025	555.9
#2	2.7083	499.5	1.9312	.0024	.0084	.0025	554.5
#3	2.8639	497.3	3.0138	.0039	.0083	.0025	551.7
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.0033	.0005	-.0052	208.3	.0782	535.1
SDev	.0005	.0002	.0002	.0006	.9	.0029	1.9
%RSD	26.71	5.778	35.63	11.11	.4299	3.773	.3531
#1	-.0022	.0031	.0007	-.0059	209.1	.0793	536.7
#2	-.0019	.0035	.0004	-.0051	208.6	.0805	535.5
#3	-.0013	.0032	.0005	-.0048	207.3	.0749	533.0
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0143	.0011	.1183	.0031	7.7929	-1.1699	1.8151
SDev	.0004	.0010	.0011	.0009	2.6176	1.3204	.7033
%RSD	2.999	94.24	.9756	30.44	33.590	112.87	38.750
#1	.0139	.0019	.1196	.0025	10.233	-2.6658	1.6297
#2	.0142	-.0000	.1177	.0042	5.0278	-.57702	1.2230
#3	.0148	.0013	.1176	.0026	8.1185	-.16679	2.5925
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150			.0400			6.0000
Low	-.0150			-.0400			-6.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.65114	1.4600	1.9759	-1.9631	2.7706	.80533	-.0677
SDev	.64388	.8243	2.1035	.4697	3.1145	1.5410	.0022
%RSD	98.885	56.456	106.46	23.927	112.41	191.35	3.197
#1	-.49598	1.4409	3.4904	-2.4866	-.54067	2.4298	-.0701
#2	-.09902	2.2937	2.8633	-1.5784	5.6415	.62191	-.0662
#3	-1.3584	.64547	-.42591	-1.8244	3.2109	-.63573	-.0667
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Sn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.4159	-.0126	5.9859	-.0001	.0001		
SDev	.0029	.0001	1.9345	.0005	.0002		
%RSD	.6936	.9187	32.317	484.6	239.7		
#1	-.4182	-.0127	4.5787	-.0001	-.0001		
#2	-.4169	-.0127	5.1872	.0004	.0001		
#3	-.4127	-.0125	8.1919	-.0006	.0003		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30060	--	--	--	--	--	--
SDev	139.1857	--	--	--	--	--	--
%RSD	.4630335	--	--	--	--	--	--
#1	29932	--	--	--	--	--	--
#2	30039	--	--	--	--	--	--
#3	30208	--	--	--	--	--	--

M 0056

Method: PROFCLP2 Sample Name: ICSABI Operator: CGZ
Run Time: 02/26/97 12:47:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1026.7	513.9	1000.3	.9910	.5021	.5147	572.3
SDev	1.3	1.1	1.4	.0008	.0006	.0009	1.3
%RSD	.12886	.2104	.13705	.0775	.1220	.1742	.2249
#1	1028.2	515.1	1000.6	.9902	.5028	.5150	572.3
#2	1025.8	513.0	1001.5	.9918	.5016	.5155	573.6
#3	1026.0	513.6	998.77	.9911	.5019	.5137	571.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
Low	800.00	400.0	800.00	.8000	.4000	.4000	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9627	.4765	.4880	.5005	215.1	.0067	551.4
SDev	.0023	.0013	.0013	.0015	.5	.0044	1.0
%RSD	.2378	.2651	.2600	.3051	.2330	66.13	.1760
#1	.9643	.4759	.4873	.5020	215.5	.0036	551.8
#2	.9637	.4779	.4894	.4990	215.3	.0118	552.1
#3	.9601	.4756	.4872	.5006	214.5	.0048	550.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1.200	.6000	.6000	.6000	240.0		600.0
Low	.8000	.4000	.4000	.4000	160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5022	.9718	.0533	.9445	935.43	927.13	929.89
SDev	.0002	.0006	.0021	.0016	3.81	5.33	4.48
%RSD	.0426	.0622	3.949	.1727	.40777	.57530	.48219
#1	.5022	.9724	.0524	.9452	936.52	923.56	927.88
#2	.5024	.9717	.0557	.9456	938.57	933.26	935.03
#3	.5019	.9712	.0519	.9426	931.18	924.57	926.77
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.6000			1.200			1200.0
Low	.4000			.8000			800.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-6.7633	975.49	.59829	-10.434	970.85	977.81	-.0717
SDev	1.8194	4.53	2.4135	3.665	9.05	8.34	.0024
%RSD	26.902	.46467	411.11	35.127	.93197	.85336	3.401
#1	-4.7762	976.16	-1.8875	-6.2137	981.14	973.67	-.0715
#2	-8.3476	979.66	.70722	-12.869	964.12	987.41	-.0742
#3	-7.1661	970.66	2.9451	-12.215	967.31	972.34	-.0694
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		1200.0					

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Low		800.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.4284	-.0157	924.15	.4801	1.026		
SDev	.0018	.0001	1.08	.0012	.002		
%RSD	.4276	.7260	.11678	.2438	.1969		
#1	-.4278	-.0158	925.00	.4806	1.026		
#2	-.4305	-.0156	922.94	.4808	1.027		
#3	-.4270	-.0156	924.51	.4787	1.024		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			1200.0	.6000	1.200		
Low			800.00	.4000	.8000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29367	--	--	--	--	--	--
SDev	71.53062	--	--	--	--	--	--
%RSD	.2435743	--	--	--	--	--	--
#1	29347	--	--	--	--	--	--
#2	29308	--	--	--	--	--	--
#3	29447	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCV1 Operator: CGZ
Run Time: 02/26/97 12:55:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	992.89	50.84	497.42	2.519	2.462	2.579	54.01
SDev	.96	.08	1.65	.006	.002	.001	.04
%RSD	.09627	.1609	.33115	.2292	.0730	.0578	.0745
#1	993.66	50.93	498.71	2.513	2.464	2.577	53.97
#2	993.19	50.78	495.57	2.519	2.461	2.580	54.03
#3	991.82	50.81	497.99	2.525	2.461	2.580	54.05
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.566	2.541	2.543	2.446	51.44	80.10	50.74
SDev	.000	.003	.001	.002	.04	.02	.02
%RSD	.0096	.1002	.0444	.0837	.0747	.0227	.0350
#1	2.566	2.538	2.542	2.448	51.48	80.12	50.72
#2	2.566	2.543	2.543	2.444	51.43	80.08	50.75
#3	2.567	2.542	2.544	2.446	51.41	80.11	50.74
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.519	2.491	80.43	2.534	487.34	486.93	487.07
SDev	.002	.001	.11	.002	1.11	1.76	1.01
%RSD	.0670	.0514	.1390	.0626	.22858	.36214	.20660
#1	2.517	2.492	80.33	2.533	488.24	487.29	487.61
#2	2.519	2.492	80.42	2.533	487.69	485.02	485.91
#3	2.520	2.489	80.55	2.536	486.10	488.49	487.69
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1022.7	495.45	1029.7	1019.2	492.56	496.89	5.144
SDev	4.2	.93	2.9	4.9	1.79	.96	.016
%RSD	.41397	.18842	.28374	.48027	.36432	.19236	.3150
#1	1021.2	495.63	1028.9	1017.3	491.45	497.72	5.126
#2	1019.5	494.44	1027.3	1015.6	491.61	495.85	5.150
#3	1027.5	496.27	1033.0	1024.8	494.63	497.09	5.157
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

M 0959

Low	900.00	450.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0899	2.484	489.75	2.483	2.596		
SDev	.0002	.001	.40	.001	.001		
%RSD	.1760	.0259	.08070	.0310	.0548		
#1	-.0898	2.484	489.35	2.483	2.594		
#2	-.0900	2.485	490.14	2.483	2.597		
#3	-.0897	2.485	489.76	2.484	2.597		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30752	--	--	--	--	--	--
SDev	42.09203	--	--	--	--	--	--
%RSD	.1368766	--	--	--	--	--	--
#1	30728	--	--	--	--	--	--
#2	30800	--	--	--	--	--	--
#3	30727	--	--	--	--	--	--

Method: PRCFCLP2 Sample Name: CCVL1 Operator: CGZ
Run Time: 02/26/97 13:02:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.1324	.0970	.43811	.0045	.0005	.0012	.1274
SDev	.3416	.0198	.74857	.0020	.0003	.0003	.0273
%RSD	30.164	20.37	170.86	44.48	55.85	21.99	21.44
#1	1.4424	.1181	1.2989	.0063	.0009	.0015	.1557
#2	1.1886	.0939	.07599	.0047	.0004	.0012	.1254
#3	.76623	.0790	-.06054	.0024	.0003	.0010	.1012
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0017	.0016	.0010	2.547	.0579	.1086
SDev	.0002	.0006	.0006	.0002	.003	.0129	.0287
%RSD	12.49	34.31	40.46	20.40	.1117	22.22	26.41
#1	.0017	.0024	.0023	.0011	2.550	.0720	.1402
#2	.0014	.0013	.0011	.0010	2.547	.0467	.1012
#3	.0014	.0015	.0013	.0008	2.544	.0552	.0843
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0013	.0013	2.686	.0021	-3.4307	1.7454	.02212
SDev	.0004	.0006	.008	.0005	2.9414	.5777	.74421
%RSD	33.13	45.82	.2980	25.05	85.738	33.101	3365.1
#1	.0018	.0020	2.679	.0017	-.22621	1.1333	.68088
#2	.0009	.0009	2.695	.0019	-4.0580	2.2812	.17060
#3	.0011	.0010	2.689	.0027	-6.0078	1.8217	-.78514
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2063/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.81385	3.3877	3.3501	-.45276	2.3724	3.8942	.0010
SDev	1.0477	1.7033	2.4022	2.63533	2.2010	3.3543	.0032
%RSD	128.74	50.279	71.705	582.06	92.778	86.136	325.8
#1	1.6146	2.3717	.64026	2.1006	4.8905	1.1138	.0033
#2	1.1989	2.4373	4.1919	-.29584	1.4112	2.9492	-.0026
#3	-.37190	5.3541	5.2180	-3.1630	.31540	7.6197	.0022
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0002	.0016	3.0572	.0017	.0020
SDev	.0002	.0000	1.8327	.0002	.0003
%RSD	70.76	2.238	59.946	11.46	14.29
#1	-.0002	.0016	1.1159	.0015	.0023
#2	-.0004	.0016	3.2984	.0018	.0018
#3	-.0001	.0017	4.7573	.0019	.0018
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31072	--	--	--	--	--	--
SDev	67.03971	--	--	--	--	--	--
%RSD	.2157574	--	--	--	--	--	--
#1	31017	--	--	--	--	--	--
#2	31052	--	--	--	--	--	--
#3	31146	--	--	--	--	--	--

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Method: PROFCLP2 Sample Name: CCB1 Operator: CGZ
Run Time: 02/26/97 13:09:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.21707	.0245	.94709	.0014	-.0005	.0002	.0460
SDev	.43500	.0046	2.3779	.0006	.0002	.0001	.0078
%RSD	200.40	18.66	251.07	43.57	44.47	44.25	16.93
#1	.03408	.0244	.95130	.0020	-.0003	.0004	.0549
#2	-.71937	.0291	-1.4329	.0014	-.0007	.0002	.0427
#3	.03409	.0199	3.3229	.0008	-.0004	.0002	.0404
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0006	.0004	-.0003	.0183	.0130	.0346
SDev	.0002	.0013	.0013	.0003	.0032	.0175	.0127
%RSD	36.53	214.5	322.6	112.8	17.43	134.6	36.70
#1	.0004	.0007	.0005	.0001	.0211	.0144	.0433
#2	.0008	-.0007	-.0009	-.0005	.0169	-.0052	.0301
#3	.0007	.0019	.0016	-.0005	.0149	.0298	.0399
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0005	.0002	.0548	.0013	.25484	.06024	.12539
SDev	.0006	.0006	.0033	.0015	4.0164	2.7037	.46654
%RSD	116.7	286.3	6.041	115.9	1576.1	4488.5	372.06
#1	.0006	.0002	.0510	.0016	4.7891	-2.9814	-.39347
#2	-.0001	-.0004	.0564	-.0003	-1.1685	.97165	.25937
#3	.0010	.0008	.0569	.0027	-2.8561	2.1905	.51028
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.43691	.67622	-.70685	-.30253	2.9130	-.44089	.0005
SDev	.61154	1.7868	5.31170	3.26445	5.9799	5.03459	.0037
%RSD	139.97	264.23	751.46	1079.1	205.28	1187.3	801.0
#1	-.15328	-1.2731	-6.7227	3.1261	9.1308	-6.4661	.0028
#2	-.01869	2.2383	1.2658	-.66035	2.4049	2.1548	-.0038
#3	-1.1388	1.0624	3.3363	-3.3733	-2.7966	2.9886	.0024
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

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Low	-60.000	-5.0000			
lem	Sr4215	Ti	T11908	V	In
nits	ppm	ppm	ppb	ppm	ppm
Avge	-.0000	.0006	1.7300	.0002	.0005
Dev	.0003	.0004	1.8381	.0005	.0002
RSD	1457.	73.57	106.25	239.5	43.01
#1	-.0000	.0001	-.39241	-.0003	.0005
2	-.0003	.0008	2.7768	.0001	.0003
3	.0003	.0009	2.8056	.0008	.0007
rrors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
igh			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

ntStd	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	31308	--	--	--	--	--	--
SDev	89.39015	--	--	--	--	--	--
RSD	.2855161	--	--	--	--	--	--
-1	31326	--	--	--	--	--	--
#2	31211	--	--	--	--	--	--
3	31387	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: PBS1 Operator: CGZ
Run Time: 02/26/97 13:26:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.4526	-.0044	-1.3065	.0002	-.0010	-.0002	.0205
SDev	2.6728	.0121	4.2089	.0009	.0004	.0001	.0057
%RSD	184.01	276.8	321.99	386.0	34.83	65.96	27.98
#1	.93274	.0095	2.8877	-.0005	-.0007	-.0001	.0257
#2	-4.3413	-.0120	-5.5260	-.0000	-.0014	-.0004	.0143
#3	-.94916	-.0106	-1.2813	.0013	-.0009	-.0002	.0214
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0004	.0019	-.0021	.0054	.0111	.0052
SDev	.0004	.0021	.0024	.0019	.0025	.0324	.0231
%RSD	163.9	545.5	131.5	88.61	45.82	291.2	444.8
#1	.0008	.0021	.0041	-.0006	.0082	.0391	.0253
#2	.0000	-.0019	-.0008	-.0042	.0038	-.0244	-.0201
#3	.0000	.0010	.0022	-.0015	.0041	.0187	.0104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0002	.0002	.0886	.0017	-2.8326	2.9901	1.0515
SDev	.0010	.0011	.0104	.0026	5.3828	2.4035	.3740
%RSD	453.5	512.7	11.80	150.8	190.03	80.383	35.567
#1	.0011	.0011	.0999	.0041	-4.9999	3.4478	.63497
#2	-.0009	-.0010	.0793	-.0010	3.2960	.39065	1.3585
#3	.0005	.0006	.0864	.0021	-6.7939	5.1319	1.1610
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1.0251	1.4963	6.3147	-1.6161	-10.598	7.5338	.0274
SDev	.9868	2.1536	5.9467	4.1639	6.588	6.3492	.0071
%RSD	96.266	143.93	94.173	257.65	62.164	84.277	26.10
#1	1.5783	1.0640	8.0696	-1.6628	-12.708	7.9391	.0338
#2	1.6111	-.40833	-.31202	2.5709	-3.2131	.99158	.0197
#3	-.11423	3.8332	11.186	-5.7565	-15.872	13.671	.0296
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	.0000	.0005	-.55780	.0015	.0057		
SDev	.0005	.0007	3.22270	.0015	.0005		
%RSD	1515.	134.5	577.75	105.2	8.927		
#1	.0005	.0013	3.1478	.0019	.0062		
#2	-.0006	-.0000	-2.7062	-.0003	.0052		
#3	.0002	.0003	-2.1150	.0027	.0058		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			10.000	.0500	.0200		
Low			-10.000	-.0500	-.0200		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31832	--	--	--	--	--	--
SDev	194.1457	--	--	--	--	--	--
%RSD	.6099049	--	--	--	--	--	--
#1	32020	--	--	--	--	--	--
#2	31633	--	--	--	--	--	--
#3	31843	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: PBS2 Operator: CGE
Run Time: 02/26/97 13:34:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.54803	.0083	-.83357	-.0012	-.0012	-.0003	.0792
SDev	2.0832	.0195	2.98351	.0010	.0002	.0001	.0023
%RSD	380.12	235.1	357.92	79.74	19.06	25.86	2.953
#1	2.9491	.0086	-3.6305	-.0001	-.0014	-.0003	.0781
#2	-.52733	.0277	2.3068	-.0020	-.0010	-.0002	.0819
#3	-.77772	-.0114	-1.1770	-.0015	-.0013	-.0002	.0777
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0004	.0009	-.0008	.0059	.0074	.0071
SDev	.0007	.0009	.0010	.0015	.0041	.0160	.0104
%RSD	86.28	221.9	109.4	189.7	68.99	215.4	146.9
#1	.0003	-.0002	.0002	.0009	.0057	-.0061	.0000
#2	.0014	.0014	.0021	-.0019	.0101	.0251	.0191
#3	.0001	.0000	.0005	-.0014	.0020	.0032	.0022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0002	.0002	.1540	.0011	-.50409	1.4782	.81846
SDev	.0005	.0008	.0153	.0007	7.48873	3.2475	.36334
%RSD	291.3	452.8	10.28	63.19	1485.6	219.69	44.394
#1	-.0003	-.0005	.1553	.0005	-7.4381	4.6297	.61147
#2	.0007	.0012	.1691	.0018	7.4374	-1.8576	1.2380
#3	.0001	-.0001	.1376	.0010	-1.5115	1.6626	.60591
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.5728	1.1235	1.4948	-3.1047	-1.1696	2.2680	.0155
SDev	1.3427	.4415	6.6648	3.5885	8.4016	3.9004	.0026
%RSD	85.366	39.299	445.88	115.58	718.31	171.98	16.84
#1	-2.4303	1.3146	7.1017	-7.1896	-7.0727	5.5016	.0133
#2	-2.2627	1.4373	-5.8740	-.46021	8.4491	-2.0638	.0184
#3	-.02549	.61861	3.2565	-1.6644	-4.8853	3.3661	.0148
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

Low	-60.000	-5.0000			
Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0013	2.8210	.0011	.0041
SDev	.0003	.0011	4.9963	.0021	.0001
%RSD	423.2	90.01	177.11	196.5	3.652
#1	-.0003	.0012	2.9405	.0031	.0040
#2	.0003	.0024	7.7564	-.0011	.0043
#3	-.0002	.0002	-2.2340	.0013	.0041
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32267	--	--	--	--	--	--
SDev	154.2749	--	--	--	--	--	--
%RSD	.4781149	--	--	--	--	--	--
#1	32276	--	--	--	--	--	--
#2	32417	--	--	--	--	--	--
#3	32109	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: LCSS1 Operator: CGZ
Run Time: 02/26/97 13:41:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	624.18	53.80	537.80	.6603	2.232	.7917	24.73
SDev	1.61	.07	3.09	.0010	.005	.0023	.11
%RSD	.25841	.1356	.57441	.1554	.2403	.2927	.4284
#1	624.30	53.88	541.17	.6608	2.228	.7943	24.85
#2	622.51	53.73	537.12	.6592	2.232	.7909	24.70
#3	625.73	53.80	535.11	.6611	2.238	.7900	24.65

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6744	.9005	.6605	.4798	127.8	17.86	14.94
SDev	.0039	.0029	.0020	.0010	.6	.01	.08
%RSD	.5731	.3249	.3024	.2113	.4668	.0700	.5357
#1	.6787	.9038	.6628	.4794	128.5	17.85	15.03
#2	.6732	.8996	.6591	.4791	127.6	17.87	14.92
#3	.6713	.8991	.6597	.4810	127.4	17.85	14.88

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.041	1.299	3.866	1.442	965.23	970.96	969.05
SDev	.005	.004	.012	.008	4.17	7.28	5.96
%RSD	.2213	.3220	.3090	.5602	.43217	.74932	.60498
#1	2.046	1.303	3.853	1.450	970.03	976.99	974.67
#2	2.040	1.298	3.870	1.440	962.49	973.01	969.51
#3	2.038	1.295	3.876	1.435	963.16	962.88	962.97

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	331.47	744.28	341.51	326.46	722.35	755.23	1.695
SDev	1.72	2.72	2.91	3.71	3.41	5.04	.009
%RSD	.51796	.36556	.85351	1.1352	.47274	.66795	.5337
#1	332.72	747.13	342.04	328.07	722.35	759.49	1.695
#2	329.51	744.01	344.11	322.22	718.94	756.52	1.681
#3	332.18	741.70	338.36	329.10	725.77	749.66	1.679

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.5873	2.758	453.06	1.252	.9787
SDev	.0011	.001	2.04	.002	.0025
%RSD	.1960	.0522	.44869	.1399	.2526
#1	.5861	2.759	457.32	1.254	.9815
#2	.5873	2.756	454.51	1.252	.9776
#3	.5884	2.758	453.35	1.250	.9769

Method: PROFCLP2 Sample Name: LCSS2 Operator: CGZ
Run Time: 02/26/97 13:48:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	335.79	32.89	296.98	.3732	1.179	.4238	13.96
SDev	.60	.10	1.48	.0004	.001	.0006	.03
%RSD	.17848	.3060	.49895	.1217	.1163	.1537	.1875
#1	336.09	32.85	295.90	.3727	1.178	.4243	13.97
#2	336.18	33.00	296.37	.3733	1.180	.4241	13.97
#3	335.10	32.81	298.67	.3736	1.178	.4231	13.93

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3656	.4879	.3576	.2552	74.18	10.35	8.573
SDev	.0007	.0009	.0008	.0004	.19	.02	.025
%RSD	.1840	.1955	.2281	.1509	.2522	.2254	.2893
#1	.3659	.4889	.3576	.2550	74.15	10.32	8.594
#2	.3661	.4876	.3584	.2556	74.38	10.36	8.590
#3	.3648	.4871	.3568	.2549	74.02	10.36	8.545

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.142	.6792	2.123	.7782	525.22	526.79	526.27
SDev	.001	.0015	.005	.0024	2.75	2.68	2.06
%RSD	.1237	.2157	.2565	.3112	.52361	.50947	.39173
#1	1.142	.6802	2.126	.7802	526.86	529.54	528.65
#2	1.143	.6798	2.116	.7791	526.75	524.18	525.04
#3	1.140	.6775	2.125	.7755	522.04	526.66	525.12

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	142.20	417.64	146.81	139.90	408.31	422.30	.8932
SDev	1.33	1.84	.92	2.26	4.83	.46	.0005
%RSD	.93718	.44073	.62561	1.6144	1.1836	.10913	.0579
#1	141.87	416.93	147.82	138.91	405.84	422.47	.8926
#2	143.66	419.73	146.03	142.48	413.97	422.65	.8935
#3	141.06	416.26	146.57	139.30	405.20	421.78	.8935

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.3103	1.646	246.73	.6766	.5505
SDev	.0002	.002	1.49	.0012	.0012
%RSD	.0640	.0961	.60217	.1722	.2199
#1	.3100	1.646	247.80	.6773	.5513
#2	.3104	1.648	247.37	.6772	.5510
#3	.3103	1.645	245.04	.6752	.5491

Method: PROFCLP2 Sample Name: XX0012 Operator: CGZ
Run Time: 02/26/97 13:55:58
Comment: 4703234 211147 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-3.0168	14.00	139.72	.2801	2.415	.0011	32.39
SDev	.3035	.03	1.34	.0015	.004	.0001	.04
%RSD	10.060	.1847	.95912	.5421	.1524	4.322	.1144
#1	-2.7213	14.02	138.88	.2795	2.411	.0012	32.39
#2	-3.3277	13.97	139.02	.2791	2.414	.0011	32.36
#3	-3.0016	14.01	141.27	.2819	2.419	.0011	32.43

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	.0069	.0338	1.269	12.45	3.549	5.543
SDev	.0001	.0001	.0004	.003	.04	.001	.015
%RSD	3.456	1.191	1.251	.2235	.2956	.0276	.2728
#1	.0024	.0070	.0333	1.266	12.48	3.550	5.539
#2	.0024	.0069	.0342	1.269	12.45	3.550	5.530
#3	.0023	.0068	.0339	1.272	12.41	3.548	5.559

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.669	.0103	2.326	.4537	105.19	128.96	121.04
SDev	.002	.0001	.011	.0019	1.84	.66	1.04
%RSD	.0928	.6833	.4577	.4284	1.7469	.51426	.85837
#1	1.669	.0102	2.314	.4560	104.16	128.39	120.32
#2	1.667	.0103	2.330	.4524	104.09	128.80	120.57
#3	1.671	.0102	2.334	.4528	107.31	129.69	122.23

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-8.7100	-2.1567	-14.416	-5.8619	-30.764	12.125	.0956
SDev	1.5321	.9128	1.209	2.8523	.225	1.358	.0008
%RSD	17.590	42.325	8.3768	48.658	.73152	11.203	.8078
#1	-7.9868	-1.2065	-14.378	-4.7963	-30.622	13.479	.0952
#2	-10.470	-3.0269	-13.227	-9.0936	-30.647	10.762	.0951
#3	-7.6734	-2.2367	-15.641	-3.6958	-31.024	12.135	.0965

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1755	.3010	2.3264	.0132	.6102
SDev	.0001	.0003	.7071	.0003	.0011
%RSD	.0800	.0850	30.396	2.346	.1813
#1	.1754	.3010	1.9691	.0135	.6099
#2	.1757	.3008	3.1409	.0134	.6093
#3	.1755	.3013	1.9693	.0129	.6114

Method: PROFCLP2 Sample Name: XX0012D Operator: CGE
Run Time: 02/26/97 14:03:14
Comment: [illegible]
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-1.8924	13.75	146.37	.2915	2.523	.0009	36.51
SDev	.1292	.03	1.16	.0001	.003	.0000	.04
%RSD	6.8261	.2431	.79311	.0224	.1034	2.538	.1036
#1	-2.0328	13.79	146.54	.2916	2.526	.0009	36.55
#2	-1.7786	13.75	147.44	.2915	2.523	.0009	36.50
#3	-1.8656	13.72	145.13	.2915	2.521	.0008	36.48

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0069	.0350	1.383	14.28	3.457	5.665
SDev	.0000	.0003	.0003	.001	.04	.003	.007
%RSD	2.004	3.980	.7754	.1056	.2546	.0744	.1240
#1	.0022	.0067	.0348	1.384	14.32	3.457	5.672
#2	.0022	.0072	.0349	1.383	14.24	3.454	5.663
#3	.0023	.0068	.0353	1.381	14.28	3.459	5.659

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.905	.0103	2.230	.5028	113.03	140.18	131.14
SDev	.002	.0001	.006	.0017	2.04	1.25	1.37
%RSD	.0992	1.432	.2913	.3342	1.8009	.89263	1.0471
#1	1.907	.0101	2.222	.5045	115.36	141.24	132.62
#2	1.905	.0103	2.233	.5027	112.12	138.80	129.91
#3	1.904	.0104	2.234	.5011	111.61	140.50	130.88

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-9.3147	-2.3665	-12.383	-7.7835	-30.220	11.539	.1087
SDev	.3029	.9186	1.590	.4806	1.668	1.807	.0022
%RSD	3.2520	38.826	12.844	6.1743	5.5201	15.660	1.977
#1	-8.9706	-3.3168	-11.043	-7.9363	-28.894	9.4524	.1081
#2	-9.5409	-1.4828	-14.140	-7.2450	-29.672	12.590	.1111
#3	-9.4327	-2.2998	-11.965	-8.1690	-32.093	12.574	.1070

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1857	.0918	1.7724	.0130	.6602
SDev	.0002	.0005	.3213	.0003	.0009
%RSD	.1261	.5899	18.126	2.663	.1443
#1	.1859	.0923	1.6032	.0130	.6610
#2	.1858	.0919	2.1429	.0126	.6605
#3	.1854	.0912	1.5710	.0133	.6591

Method: PROFCLP2 Sample Name: XX0012S Operator: CGS
Run Time: 02/26/97 14:10:31
Comment: [illegible]
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	44.223	15.98	1958.0	.3056	4.620	.0490	36.86
SDev	.121	.04	1.3	.0008	.005	.0000	.03
%RSD	.27430	.2299	.06481	.2600	.1036	.0683	.0806
#1	44.163	16.02	1958.6	.3062	4.625	.0490	36.88
#2	44.362	15.95	1956.5	.3047	4.616	.0490	36.83
#3	44.143	15.97	1958.8	.3059	4.620	.0490	36.87

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0495	.4831	.2265	1.732	14.79	3.565	5.651
SDev	.0001	.0002	.0001	.001	.03	.006	.004
%RSD	.2817	.0444	.0504	.0856	.1730	.1587	.0644
#1	.0497	.4833	.2266	1.732	14.82	3.567	5.652
#2	.0494	.4830	.2264	1.730	14.78	3.558	5.647
#3	.0494	.4830	.2265	1.733	14.78	3.569	5.654

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.439	.0992	2.271	.9874	573.89	598.70	590.44
SDev	.002	.0010	.005	.0027	1.71	2.22	.92
%RSD	.0756	1.051	.2128	.2738	.29792	.37048	.15542
#1	2.441	.1004	2.267	.9905	571.92	601.26	591.49
#2	2.437	.0985	2.270	.9859	574.74	597.31	589.79
#3	2.440	.0986	2.276	.9857	575.00	597.54	590.03

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1399
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	348.06	1731.9	346.36	348.90	1688.2	1753.7	.1010
SDev	1.68	7.2	2.93	1.08	5.0	8.4	.0026
%RSD	.48370	.41703	.84709	.31012	.29360	.47845	2.526
#1	349.49	1731.8	349.11	349.68	1687.2	1754.0	.0995
#2	346.20	1724.7	343.27	347.67	1683.8	1745.2	.1039
#3	348.47	1739.2	346.71	349.36	1693.5	1762.0	.0994

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1998	.0715	1770.7	.4887	1.187
SDev	.0001	.0002	4.8	.0006	.001
%RSD	.0491	.2273	.26965	.1301	.0990
#1	.1999	.0714	1774.9	.4893	1.187
#2	.1998	.0717	1765.5	.4881	1.185
#3	.1997	.0716	1771.7	.4887	1.188

Method: PROFCLP2 Sample Name: XX0013 Operator: CGZ
Run Time: 02/26/97 14:17:49
Comment: 9701235 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-2.0599	22.78	127.60	.2713	2.312	.0012	80.94
SDev	.2918	.06	.42	.0002	.003	.0000	.10
%RSD	14.167	.2525	.33265	.0878	.1463	.9387	.1280
#1	-1.7229	22.73	128.08	.2710	2.308	.0011	80.89
#2	-2.2252	22.77	127.28	.2713	2.312	.0011	80.88
#3	-2.2315	22.85	127.45	.2715	2.315	.0012	81.06

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0152	.0481	1.156	33.82	8.944	11.80
SDev	.0001	.0002	.0001	.002	.05	.008	.01
%RSD	5.693	1.367	.3047	.1484	.1377	.0878	.0801
#1	.0022	.0154	.0483	1.154	33.79	8.944	11.80
#2	.0023	.0150	.0480	1.157	33.79	8.936	11.79
#3	.0020	.0151	.0480	1.157	33.87	8.952	11.81

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.572	.0098	4.016	.4207	160.21	180.74	173.91
SDev	.002	.0006	.006	.0026	1.72	.56	.42
%RSD	.0786	6.095	.1464	.6111	1.0711	.30780	.24324
#1	2.571	.0095	4.009	.4203	162.12	180.20	174.19
#2	2.570	.0104	4.018	.4188	158.80	180.72	173.42
#3	2.574	.0093	4.020	.4234	159.71	181.31	174.12

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-4.4368	.31119	-2.8448	-5.2320	-22.287	11.593	.0822
SDev	.5502	.40415	.5935	.9949	2.041	.492	.0016
%RSD	12.400	129.87	20.864	19.016	9.1580	4.2404	1.909
#1	-5.0498	.08344	-2.3844	-6.3809	-24.058	12.136	.0839
#2	-4.2748	.77781	-3.5147	-4.6547	-20.055	11.178	.0809
#3	-3.9857	.07231	-2.6352	-4.6604	-22.747	11.464	.0817

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2206	.1244	4.5917	.0290	.7621
SDev	.0002	.0001	2.0961	.0002	.0010
%RSD	.0826	.0852	45.650	.6051	.1271
#1	.2204	.1243	6.8585	.0289	.7613
#2	.2205	.1245	4.1933	.0292	.7618
#3	.2208	.1245	2.7234	.0289	.7632

Method: PROFCLP2 Sample Name: XX0014 Operator: CGC
Run Time: 02/26/97 14:25:05
Comment: 9702236 2/27/97 CG2
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.1764	2.065	-.38265	.0144	.1352	-.0001	11.01
SDev	.1285	.002	1.48634	.0004	.0006	.0000	.04
%RSD	10.925	.0931	388.43	2.964	.4034	5.259	.3255
#1	1.3176	2.065	-1.8201	.0146	.1358	-.0001	11.05
#2	1.0661	2.063	1.1481	.0147	.1349	-.0001	11.01
#3	1.1456	2.067	-.47595	.0139	.1348	-.0001	10.99

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0006	.0067	.1317	1.736	2.162	1.793
SDev	.0001	.0002	.0001	.0007	.007	.005	.006
%RSD	13.79	36.96	.7694	.4979	.4164	.2205	.3579
#1	.0006	.0009	.0067	.1321	1.743	2.159	1.801
#2	.0007	.0005	.0066	.1309	1.735	2.159	1.791
#3	.0005	.0004	.0067	.1320	1.729	2.167	1.798

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1767	.0020	1.296	.0069	7.9187	8.9346	8.5966
SDev	.0008	.0004	.006	.0008	2.1106	.5494	.5076
%RSD	.4596	17.62	.4918	11.25	26.654	6.1493	5.9049
#1	.1775	.0024	1.297	.0078	6.3600	9.5652	8.4982
#2	.1767	.0018	1.290	.0062	10.321	8.5595	9.1462
#3	.1759	.0018	1.302	.0067	7.0755	8.6791	8.1454

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1.7823	3.0800	4.6737	.33838	-7.2422	8.2329	.0419
SDev	1.2344	.7153	2.6734	2.4153	3.7324	2.0267	.0012
%RSD	69.257	23.225	57.200	713.85	51.537	24.617	2.864
#1	2.0419	2.6254	7.6128	-.73967	-11.119	9.4883	.0406
#2	2.8662	2.7089	2.3867	3.1052	-3.6731	5.8948	.0421
#3	.43876	3.9046	4.0217	-1.3504	-6.9346	9.3157	.0430

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0616	.0317	.05105	.0019	.1297
SDev	.0002	.0007	.66029	.0002	.0005
%RSD	.2646	2.188	1293.5	8.335	.3634
#1	.0618	.0323	.24537	.0020	.1302
#2	.0616	.0309	.59237	.0018	.1296
#3	.0614	.0317	-.69460	.0019	.1292

Method: PROFCLP2 Sample Name: XX00131 Operator: CGS
Run Time: 02/26/97 14:32:22
Comment: 9702335L 2/27/97 CGS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.89572	4.712	25.432	.0577	.4657	.0001	16.91
SDev	.40354	.016	.579	.0004	.0009	.0000	.05
%RSD	45.051	.3392	2.2762	.7044	.1980	9.783	.2910
#1	-.84254	4.714	26.050	.0581	.4664	.0001	16.96
#2	-1.3232	4.726	25.344	.0573	.4660	.0001	16.90
#3	-.52142	4.695	24.902	.0576	.4647	.0001	16.86

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0029	.0093	.2335	6.947	1.748	2.547
SDev	.0001	.0003	.0003	.0007	.020	.007	.011
%RSD	9.807	10.49	2.764	.3143	.2815	.3893	.4396
#1	.0006	.0031	.0096	.2343	6.966	1.755	2.560
#2	.0007	.0029	.0093	.2335	6.949	1.741	2.544
#3	.0006	.0025	.0091	.2328	6.927	1.747	2.538

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5316	.0017	.8520	.0891	35.694	38.935	37.190
SDev	.0015	.0004	.0041	.0008	.146	1.464	1.017
%RSD	.2911	20.95	.4799	.8389	.43385	3.7594	2.7350
#1	.5335	.0021	.8563	.0896	33.754	38.553	36.955
#2	.5315	.0016	.8482	.0895	33.801	40.551	38.304
#3	.5304	.0014	.8515	.0892	33.528	37.700	36.311

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.67523	-1.0950	-.60913	-.70859	-3.2385	-.02513	.0156
SDev	1.30553	.8836	1.08726	1.73937	4.4604	1.97892	.0014
%RSD	193.35	80.697	178.49	245.47	137.73	7873.5	9.213
#1	.79889	-.08848	.25133	1.0719	-1.5731	.65237	.0173
#2	-1.6855	-1.7431	-.24764	-2.4037	-8.2920	1.5261	.0150
#3	-1.1391	-1.4533	-1.8311	-.79397	.14955	-2.2538	.0146

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0370	.0269	.87681	.0065	.1618
SDev	.0001	.0005	.38723	.0003	.0003
%RSD	.2305	1.788	44.163	4.587	.2063
#1	.0370	.0266	1.0677	.0068	.1621
#2	.0371	.0275	.43119	.0063	.1617
#3	.0370	.0267	1.1315	.0063	.1615

M 0976

Method: PROFCLP2 Sample Name: CCV2 Operator: CGC
Run Time: 02/26/97 14:39:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1015.8	52.28	503.23	2.582	2.520	2.604	54.45
SDev	.5	.05	.72	.001	.002	.005	.13
%RSD	.05272	.1012	.14251	.0544	.0743	.1936	.2469
#1	1015.5	52.22	503.54	2.580	2.520	2.608	54.53
#2	1016.4	52.30	503.74	2.582	2.519	2.607	54.54
#3	1015.5	52.32	502.41	2.583	2.522	2.599	54.30
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.583	2.570	2.568	2.512	51.82	82.27	51.06
SDev	.007	.005	.004	.003	.13	.18	.12
%RSD	.2776	.1969	.1618	.1184	.2440	.2132	.2342
#1	2.588	2.572	2.571	2.510	51.87	82.07	51.12
#2	2.588	2.573	2.570	2.512	51.91	82.34	51.14
#3	2.575	2.564	2.563	2.516	51.67	82.40	50.93
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.547	2.518	83.10	2.561	489.35	492.19	491.25
SDev	.004	.003	.22	.008	2.46	2.85	1.23
%RSD	.1373	.1314	.2615	.3072	.50355	.57864	.25062
#1	2.549	2.520	82.88	2.564	489.85	493.18	492.07
#2	2.550	2.520	83.32	2.567	486.68	494.42	491.84
#3	2.543	2.514	83.09	2.552	491.53	488.98	489.83
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1044.0	502.66	1057.0	1037.5	499.31	504.33	5.196
SDev	2.4	3.72	4.9	3.0	6.73	3.54	.018
%RSD	.22819	.74052	.46589	.29398	1.3475	.70182	.3487
#1	1045.9	506.82	1055.6	1041.0	506.48	506.99	5.205
#2	1044.8	501.51	1062.5	1036.0	493.13	505.69	5.209
#3	1041.3	499.65	1052.9	1035.5	498.31	500.32	5.176
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

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Low	900.00	450.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0920	2.525	494.04	2.517	2.637		
SDev	.0002	.001	.71	.003	.004		
%RSD	.1814	.0259	.14432	.1237	.1539		
#1	-.0919	2.525	493.22	2.519	2.639		
#2	-.0920	2.525	494.50	2.519	2.640		
#3	-.0922	2.524	494.40	2.513	2.633		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30960	--	--	--	--	--	--
SDev	14.31173	--	--	--	--	--	--
%RSD	.0462272	--	--	--	--	--	--
#1	30956	--	--	--	--	--	--
#2	30948	--	--	--	--	--	--
#3	30975	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCVL2 Operator: CGZ
Run Time: 02/26/97 14:46:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.14944	.0236	1.6604	.0040	.0009	.0013	.0535
SDev	.20785	.0066	1.7341	.0014	.0004	.0002	.0063
%RSD	139.08	27.84	104.44	35.96	38.61	19.12	11.83
#1	.34217	.0309	3.3427	.0056	.0013	.0015	.0603
#2	-.07079	.0215	1.7597	.0028	.0008	.0012	.0525
#3	.17694	.0183	-.12124	.0036	.0007	.0010	.0477
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0014	.0011	.0010	2.451	.0586	.0319
SDev	.0003	.0003	.0002	.0003	.004	.0086	.0065
%RSD	19.86	21.12	19.11	34.00	.1585	14.74	20.51
#1	.0018	.0017	.0014	.0013	2.456	.0678	.0394
#2	.0016	.0012	.0010	.0007	2.449	.0571	.0319
#3	.0012	.0013	.0010	.0009	2.449	.0509	.0253
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0013	.0013	2.699	.0017	-2.7452	2.2397	.58012
SDev	.0003	.0001	.006	.0006	1.6515	1.6854	.95533
%RSD	26.71	7.503	.2388	35.93	60.161	75.253	164.69
#1	.0017	.0013	2.698	.0015	-4.3449	4.0019	1.2228
#2	.0012	.0012	2.705	.0024	-2.9443	.64335	-.51767
#3	.0010	.0014	2.692	.0012	-1.0463	2.0738	1.0352
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.44747	.23133	1.8258	-1.5828	-1.1205	.90586	.0011
SDev	.72142	.61303	1.7269	.3348	.5527	.73155	.0005
%RSD	161.22	265.00	94.583	21.151	49.325	80.758	48.32
#1	.26998	.04250	3.2213	-1.2039	-1.6494	.88681	.0017
#2	-1.1728	-.26507	-.10550	-1.7061	-1.1653	.18402	.0009
#3	-.43960	.91656	2.3617	-1.8385	-.54676	1.6467	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

Elem	Sr4215	Ti	T11908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0016	3.0033	.0016	.0029
SDev	.0000	.0003	1.1356	.0002	.0003
%RSD	6.760	16.64	37.811	13.74	10.96
#1	-.0001	.0019	4.1425	.0019	.0032
#2	-.0001	.0016	2.9962	.0015	.0028
#3	-.0001	.0014	1.8713	.0015	.0026
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31601	--	--	--	--	--	--
SDev	60.43383	--	--	--	--	--	--
%RSD	.1912382	--	--	--	--	--	--
#1	31645	--	--	--	--	--	--
#2	31626	--	--	--	--	--	--
#3	31532	--	--	--	--	--	--

M 0080

Method: PROFCLP2 Sample Name: CCB2 Operator: CGC
Run Time: 02/26/97 14:54:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.16359	.0033	.32331	.0011	-.0002	.0002	.0172
SDev	.38827	.0006	.84862	.0004	.0002	.0001	.0029
%RSD	237.34	19.52	262.47	34.20	115.5	39.36	16.71
#1	-.38707	.0040	.19428	.0016	-.0000	.0003	.0205
#2	.28475	.0030	1.2291	.0010	-.0001	.0002	.0164
#3	-.38845	.0029	-.45340	.0008	-.0004	.0001	.0149
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0004	.0001	.0002	.0099	.0096	.0042
SDev	.0001	.0003	.0003	.0001	.0023	.0059	.0034
%RSD	18.45	95.34	461.7	33.46	23.10	61.06	80.06
#1	.0007	.0003	.0003	.0003	.0123	.0135	.0065
#2	.0005	.0007	.0001	.0002	.0095	.0124	.0059
#3	.0005	.0000	-.0002	.0002	.0079	.0029	.0003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0002	.0403	.0006	-3.1159	2.7026	.76539
SDev	.0002	.0002	.0039	.0003	2.1511	1.4317	.39609
%RSD	41.14	109.2	9.558	51.59	69.037	52.975	52.011
#1	.0005	.0001	.0447	.0009	-3.7942	3.7217	1.2193
#2	.0005	.0004	.0398	.0003	-.70740	1.0657	.47567
#3	.0002	.0000	.0371	.0008	-4.8462	3.3202	.60119
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.87850	1.1562	2.9851	-.17362	-.12937	1.7977	-.0001
SDev	.85040	.5239	1.0727	1.22362	5.14244	2.2257	.0020
%RSD	96.801	45.314	35.936	704.75	3975.0	123.81	1336.
#1	.48018	1.3215	3.9110	-1.2330	-3.9589	3.9573	.0002
#2	.30037	1.5775	1.8096	-.45352	5.7155	-.48862	.0016
#3	1.8550	.56960	3.2347	1.1657	-2.1447	1.9243	-.0023
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

M 0051

Low	-60.000	-5.0000

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0006	1.6269	.0008	.0005
SDev	.0000	.0002	.4017	.0001	.0001
%RSD	67.27	35.80	24.689	10.35	17.88
#1	-.0000	.0008	1.9846	.0008	.0006
#2	-.0000	.0006	1.7035	.0007	.0005
#3	-.0001	.0004	1.1924	.0008	.0004
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31078	--	--	--	--	--	--
SDev	87.25892	--	--	--	--	--	--
%RSD	.2807733	--	--	--	--	--	--
#1	31072	--	--	--	--	--	--
#2	31168	--	--	--	--	--	--
#3	30994	--	--	--	--	--	--

Analysis Report Wed 02-26-97 03:08:39 PM page 1

Method: PROFCLP2 Sample Name: B60240 Operator: CGZ
Run Time: 02/26/97 15:01:30
Comment: 970236S 1137M7 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.32848	6.555	1.8786	-.0001	.0283	.0005	.8271
SDev	.52565	.022	.1825	.0003	.0002	.0000	.0030
%RSD	160.03	.3426	9.7160	216.1	.6895	7.112	.3679
#1	-.92805	6.572	1.6898	.0001	.0284	.0005	.8284
#2	-.11052	6.564	2.0541	-.0005	.0284	.0006	.8293
#3	.05313	6.530	1.8920	-.0001	.0281	.0005	.8236

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0048	.0862	.0150	17.55	1.127	1.708
SDev	.0001	.0003	.0003	.0003	.07	.005	.009
%RSD	329.1	7.163	.3930	1.694	.3811	.4396	.4479
#1	.0001	.0045	.0860	.0148	17.60	1.126	1.708
#2	-.0001	.0052	.0866	.0153	17.57	1.132	1.715
#3	-.0001	.0046	.0860	.0150	17.47	1.123	1.700

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1766	.0312	.1875	.0133	2.5654	8.1408	6.2345
SDev	.0006	.0005	.0019	.0003	.6031	1.8073	1.0526
%RSD	.3308	1.592	1.012	2.213	23.510	22.200	16.749
#1	.1767	.0310	.1884	.0132	2.7340	8.9631	6.8391
#2	.1771	.0318	.1887	.0131	1.8959	9.3906	6.8952
#3	.1759	.0308	.1853	.0137	3.0663	6.0685	5.0691

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.63174	.62249	3.6578	-.87939	-3.6988	2.7795	.0058
SDev	1.0849	.97130	.9803	1.18600	2.9122	.6207	.0017
%RSD	171.73	156.03	26.801	134.87	78.734	22.333	29.30
#1	.91112	1.1041	3.4829	-.37321	-3.6519	3.4782	.0041
#2	1.5496	-.49550	4.7138	-.03047	-6.6342	2.5689	.0075
#3	-.56551	1.2589	2.7767	-2.2345	-.81032	2.2915	.0059

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0034	.3453	1.5156	.0225	.0294
SDev	.0000	.0008	.9705	.0003	.0002
%RSD	1.072	.2316	64.035	1.442	.5398
#1	.0034	.3459	.74945	.0229	.0295
#2	.0035	.3457	2.6070	.0225	.0296
#3	.0034	.3444	1.1904	.0222	.0293

M 0053

ethod: PROFCLP2 Sample Name: B60240D Operator: CGI
Run Time: 02/26/97 15:09:47
Comment: 9702305.0 211747 CGI
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.42443	6.822	3.4155	-.0006	.0299	.0005	1.314
SDev	.21932	.014	1.7520	.0004	.0001	.0000	.002
%RSD	51.673	.2019	51.296	62.83	.2989	.1595	.1139
#1	-.17547	6.828	3.7538	-.0006	.0299	.0005	1.315
#2	-.58906	6.831	4.9736	-.0002	.0298	.0006	1.312
#3	-.50877	6.806	1.5190	-.0010	.0300	.0005	1.314

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0046	.0423	.0147	21.99	1.070	1.881
SDev	.0000	.0003	.0004	.0001	.02	.001	.003
%RSD	13.38	7.112	.8509	1.049	.0917	.1163	.1576
#1	-.0002	.0048	.0424	.0146	22.01	1.070	1.882
#2	-.0002	.0043	.0419	.0149	21.97	1.068	1.883
#3	-.0002	.0049	.0425	.0146	21.98	1.070	1.878

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.1898	.0105	.1966	.0114	3.6380	7.7028	6.3495
SDev	.0002	.0004	.0011	.0006	2.1280	1.8170	.5199
%RSD	.0892	3.437	.5404	5.734	58.492	23.588	8.1872
#1	.1900	.0109	.1977	.0110	2.3520	8.6457	6.7167
#2	.1897	.0103	.1964	.0121	6.0472	5.6082	5.7547
#3	.1897	.0102	.1956	.0110	2.0149	8.8544	6.5771

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1399
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.58166	.72929	3.9715	-1.1111	-3.2496	2.7154	.0036
SDev	.49525	1.1815	2.4946	.5438	1.8567	1.1052	.0008
%RSD	85.144	162.01	62.560	49.396	57.138	40.702	21.30
#1	.53542	-.37305	3.0632	-.72702	-5.3888	2.1307	.0033
#2	.11115	.58436	2.0689	-.96663	-2.3025	2.0253	.0044
#3	1.0984	1.9766	6.7825	-1.7397	-2.0573	3.9901	.0030

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0015	.3389	2.4805	.0220	.0295
SDev	.0001	.0004	1.1317	.0004	.0000
%RSD	3.252	.1054	45.622	1.658	.1475
#1	.0015	.3392	1.1792	.0222	.0295
#2	.0015	.3389	3.2338	.0222	.0296
#3	.0016	.3385	3.0286	.0216	.0295

M 0084

Method: PROFCLP2 Sample Name: B60240S Operator: CGS
Run Time: 02/26/97 15:16:05
Comment: 9702136S 2/27/97 ag
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	46.740	8.419	1860.2	.0002	1.927	.0491	.7103
SDev	.291	.022	3.1	.0003	.003	.0001	.0005
%RSD	.62160	.2555	.16614	127.7	.1686	.1178	.0671
#1	46.436	8.420	1856.7	.0005	1.924	.0490	.7106
#2	47.015	8.440	1861.8	.0001	1.930	.0491	.7107
#3	46.768	8.397	1862.3	.0000	1.926	.0490	.7098

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0491	.4896	.2170	.2474	16.41	1.059	1.461
SDev	.0001	.0004	.0001	.0002	.04	.001	.003
%RSD	.1789	.0858	.0422	.0824	.2434	.0939	.1767
#1	.0491	.4899	.2169	.2472	16.41	1.059	1.463
#2	.0491	.4896	.2170	.2476	16.46	1.060	1.462
#3	.0490	.4891	.2171	.2473	16.38	1.058	1.458

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.6501	.0052	.1751	.4970	475.55	478.33	477.41
SDev	.0005	.0005	.0016	.0013	2.72	.90	.95
%RSD	.0769	10.43	.9429	.2617	.57273	.18808	.19845
#1	.6499	.0058	.1769	.4955	472.43	478.48	476.46
#2	.6507	.0048	.1736	.4980	477.44	477.37	477.39
#3	.6497	.0050	.1747	.4975	476.77	479.15	478.36

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	373.56	1811.7	378.34	371.17	1789.5	1822.7	.0063
SDev	.37	4.8	3.21	2.15	10.4	5.3	.0000
%RSD	.09812	.26278	.84868	.57931	.58206	.29006	.6603
#1	373.36	1806.2	379.77	370.15	1781.0	1818.7	.0063
#2	373.98	1814.2	374.66	373.64	1801.1	1820.9	.0063
#3	373.34	1814.6	380.58	369.72	1786.3	1828.7	.0062

Elem	Sr4215	Ti	T11908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0025	.3282	1835.0	.4902	.5268
SDev	.0000	.0004	2.6	.0008	.0009
%RSD	.3245	.1372	.14151	.1739	.1676
#1	.0025	.3281	1833.2	.4910	.5267
#2	.0024	.3288	1838.0	.4905	.5277
#3	.0025	.3279	1833.8	.4893	.5260

ethod: PROFCLP2 Sample Name: B60240L Operator: CGI
Run Time: 02/26/97 15:23:22
omment: 9702305L 2/27/97 CG2
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.66629	1.334	.38834	-.0001	.0062	.0000	.1809
SDev	.48622	.004	1.1456	.0003	.0002	.0000	.0006
%RSD	72.974	.2793	128.96	279.0	3.588	266.7	.3447
#1	-.38515	1.336	1.6170	.0000	.0064	.0000	.1815
#2	-.38600	1.336	1.4802	.0001	.0062	-.0000	.1811
#3	-1.2277	1.330	-.43214	-.0005	.0060	.0000	.1803

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0011	.0170	.0032	3.469	.2282	.3505
SDev	.0002	.0004	.0004	.0002	.004	.0042	.0027
%RSD	1233.	35.58	2.370	7.641	.1271	1.844	.7621
#1	-.0000	.0014	.0173	.0035	3.474	.2321	.3521
#2	.0002	.0012	.0171	.0030	3.469	.2286	.3519
#3	-.0002	.0007	.0166	.0030	3.465	.2238	.3474

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0360	.0062	.0722	.0028	-3.4403	4.1390	1.6155
SDev	.0003	.0001	.0013	.0004	1.5745	2.0900	1.0787
%RSD	.7079	1.401	1.824	13.99	45.766	50.252	66.772
#1	.0362	.0063	.0720	.0026	-1.6232	2.4842	1.1168
#2	.0360	.0061	.0736	.0033	-4.2979	3.4590	.87637
#3	.0357	.0062	.0709	.0027	-4.3998	6.4739	2.8533

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.89429	1.4348	4.2667	-3.4713	-1.3565	2.9280	-.0002
SDev	1.45049	.3903	1.8644	2.8285	1.7232	1.3019	.0021
%RSD	162.19	27.202	43.698	81.482	127.03	46.039	1055.
#1	.76386	.99412	2.7565	-.23136	-.15178	1.5508	.0019
#2	-1.5189	1.6616	6.3505	-5.4482	-3.3303	4.1534	-.0003
#3	-1.9278	1.6587	3.6929	-4.7344	-.58740	2.7796	-.0022

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0006	.0700	4.0500	.0049	.0075
SDev	.0001	.0002	2.4003	.0002	.0001
%RSD	8.906	.3175	59.268	4.651	1.542
#1	.0007	.0703	5.7167	.0048	.0076
#2	.0006	.0701	5.1344	.0052	.0074
#3	.0006	.0698	1.2988	.0048	.0074

M 0086

Method: PROFCLP2 Sample Name: B60240P Operator: CGZ
Run Time: 02/26/97 15:30:39
Comment: 9702305P 2/27/97 CGZ
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.202	6.572	23.327	.0003	.0286	.0105	.8309
SDev	.153	.042	.300	.0002	.0002	.0001	.0026
%RSD	.79711	.6357	1.2844	68.29	.8320	.5139	.3090
#1	19.352	6.620	23.667	.0001	.0289	.0106	.8332
#2	19.208	6.542	23.213	.0003	.0284	.0105	.8281
#3	19.046	6.555	23.102	.0005	.0285	.0105	.8315

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0100	.1063	.2856	.0638	17.64	1.130	1.714
SDev	.0001	.0008	.0012	.0002	.11	.007	.005
%RSD	1.270	.7510	.4129	.3803	.6343	.6028	.3123
#1	.0101	.1072	.2870	.0640	17.77	1.135	1.720
#2	.0101	.1057	.2849	.0636	17.55	1.132	1.709
#3	.0099	.1061	.2851	.0639	17.60	1.122	1.714

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.2075	.0311	.1366	.0949	10.117	12.625	11.790
SDev	.0009	.0003	.0013	.0003	.439	.923	.498
%RSD	.4178	1.128	.7030	.7966	4.3413	7.3134	4.2216
#1	.2085	.0308	.1372	.0959	10.028	12.227	11.495
#2	.2069	.0314	.1376	.0946	10.593	11.967	11.510
#3	.2071	.0310	.1352	.0943	9.7282	13.680	12.364

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	120.69	10.670	125.35	118.36	6.2281	12.887	.0078
SDev	3.26	.366	3.07	3.37	1.3817	.253	.0043
%RSD	2.7039	3.4276	2.4514	2.8507	22.184	1.9635	54.95
#1	123.56	10.782	127.76	121.46	6.1110	13.114	.0067
#2	117.14	10.966	121.89	114.77	7.6646	12.614	.0126
#3	121.37	10.261	126.40	118.86	4.9089	12.933	.0042

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0035	.3470	22.969	.1202	.0718
SDev	.0000	.0018	.604	.0005	.0003
%RSD	.7300	.5282	2.6317	.3902	.4703
#1	.0035	.3491	22.525	.1207	.0722
#2	.0035	.3458	23.658	.1198	.0716
#3	.0035	.3461	22.725	.1200	.0716

M 0087

ethod: PROFCLP2 Sample Name: B60223 Operator: DGZ
un Time: 02/26/97 15:37:56
Comment: 9701640 2/27/97 DGZ
ode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	136.79	14.62	75.185	.0278	.0544	.0013	2.233
SDev	.36	.04	.953	.0003	.0004	.0000	.002
%RSD	.26619	.2430	1.2671	3.034	.6622	.0091	.0867
#1	136.60	14.58	76.284	.0284	.0541	.0013	2.231
#2	137.21	14.65	74.674	.0269	.0548	.0013	2.234
#3	136.57	14.63	74.597	.0282	.0543	.0013	2.234

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	.0057	.2357	.0743	127.5	4.250	2.522
SDev	.0001	.0004	.0004	.0002	.3	.009	.002
%RSD	5.066	6.389	.1646	.2933	.2716	.2043	.0765
#1	-.0025	.0060	.2355	.0740	127.2	4.254	2.521
#2	-.0028	.0057	.2361	.0744	127.9	4.240	2.521
#3	-.0027	.0053	.2354	.0744	127.4	4.256	2.524

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.3186	.0244	2.377	.0357	14.801	25.457	21.909
SDev	.0003	.0002	.009	.0001	1.882	.289	.789
%RSD	.0842	.8143	.3667	.1289	12.713	1.1304	3.5992
#1	.3183	.0242	2.378	.0357	13.370	25.432	21.416
#2	.3188	.0244	2.368	.0357	14.100	25.193	21.493
#3	.3187	.0246	2.385	.0357	16.932	25.757	22.819

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	2.2109	1.7185	8.3504	.14387	-.04352	2.5978	-.0365
SDev	.5107	1.4083	1.1808	.72074	2.25311	2.3638	.0019
%RSD	23.101	81.955	18.594	500.97	5176.7	90.994	5.301
#1	2.5434	.55664	8.7029	.96570	-1.9165	1.7909	-.0343
#2	1.6223	1.3139	5.6351	-.38066	2.4568	.74301	-.0376
#3	2.4664	3.2848	7.7133	-.15344	-.67089	5.2593	-.0376

Elem	Sr4215	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0479	.7216	5.8739	.0867	.7953
SDev	.0000	.0019	.5219	.0006	.0015
%RSD	.0174	.2511	8.8866	.6715	.1898
#1	.0479	.7198	5.6782	.0861	.7936
#2	.0479	.7234	5.4588	.0867	.7964
#3	.0479	.7216	4.6847	.0873	.7960

M 0055

Method: PROFCLP2 Sample Name: B60224 Operator: CGS
Run Time: 02/26/97 15:45:14
Comment: 97/02/47 2147/47 ICP
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	140.45	34.40	110.85	.0976	.1682	.0022	24.46
SDev	.96	.23	1.36	.0011	.0011	.0000	.11
%RSD	.68527	.6578	1.2258	1.122	.6363	.3397	.4609
#1	139.35	34.14	109.99	.0964	.1670	.0022	24.33
#2	140.82	34.51	112.41	.0981	.1689	.0022	24.51
#3	141.17	34.56	110.14	.0984	.1688	.0022	24.53

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0031	.0176	.3058	.1363	156.6	9.114	11.46
SDev	.0001	.0001	.0015	.0011	.8	.055	.05
%RSD	4.315	.6201	.4985	.7780	.5284	.6017	.4369
#1	-.0030	.0176	.3042	.1351	155.7	9.056	11.40
#2	-.0033	.0175	.3059	.1371	157.0	9.119	11.48
#3	-.0031	.0177	.3073	.1369	157.2	9.166	11.49

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.7732	.0639	15.85	.0832	28.993	42.090	37.729
SDev	.0041	.0013	.08	.0013	.583	.117	.226
%RSD	.5342	2.002	.4944	1.524	2.0122	.27809	.59900
#1	.7685	.0630	15.76	.0818	28.961	42.219	37.905
#2	.7749	.0635	15.89	.0837	29.592	42.058	37.907
#3	.7762	.0654	15.89	.0842	28.426	41.992	37.475

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	3.0025	4.6798	7.7977	.600607	4.9847	4.5272	-.0433
SDev	1.0195	1.5531	3.0295	.19722	.6382	2.6375	.0009
%RSD	33.955	33.189	38.861	32.434	13.204	58.258	1.949
#1	4.1758	3.9321	11.292	.62274	5.0768	3.2103	-.0429
#2	2.3331	3.7350	6.1966	.40393	5.5920	2.8076	-.0428
#3	2.4985	6.4723	5.9047	.79755	4.2853	7.5638	-.0443

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2645	.9792	6.8215	.1521	2.227
SDev	.0016	.0058	.3371	.0010	.011
%RSD	.6133	.5886	4.9422	.6497	.4943
#1	.2627	.9726	6.7525	.1510	2.214
#2	.2651	.9815	7.1877	.1524	2.223
#3	.2656	.9834	6.5241	.1530	2.234

Method: PROFCLP2 Sample Name: CRIF Operator: CGI
Run Time: 02/26/97 15:52:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.545	.0160	20.811	.2023	-.0003	.0104	.0298
SDev	.109	.0054	.274	.0004	.0001	.0000	.0012
%RSD	.55919	33.89	1.3175	.2014	17.58	.1257	3.973
#1	19.478	.0220	20.725	.2020	-.0002	.0104	.0305
#2	19.671	.0149	21.118	.2020	-.0003	.0104	.0305
#3	19.487	.0113	20.590	.2027	-.0003	.0104	.0285

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0109	.1070	.0209	.0505	.1063	.0164	.0057
SDev	.0001	.0004	.0001	.0001	.0144	.0026	.0039
%RSD	.8336	.4132	.4822	.2712	13.54	15.55	67.80
#1	.0109	.1066	.0208	.0505	.1214	.0160	.0084
#2	.0110	.1075	.0210	.0507	.1049	.0192	.0075
#3	.0108	.1070	.0210	.0504	.0927	.0141	.0013

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0316	.0201	.0560	.0854	4.8735	7.0823	5.3472
SDev	.0001	.0004	.0004	.0008	.8884	1.2235	.6009
%RSD	.3064	2.051	.7417	.9378	18.228	17.275	9.4677
#1	.0317	.0197	.0555	.0845	4.6536	8.1232	5.9715
#2	.0317	.0205	.0564	.0856	4.1089	7.3893	6.2973
#3	.0315	.0200	.0560	.0860	5.8480	5.7346	5.7728

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	125.66	9.4332	127.67	124.65	11.352	8.4746	.1639
SDev	.55	1.3528	.48	.73	1.501	1.9402	.0010
%RSD	.43440	14.341	.37432	.62449	13.225	22.894	.6130
#1	125.28	10.608	127.98	123.92	10.653	10.585	.1628
#2	125.42	9.7370	127.12	124.56	13.076	8.0697	.1645
#3	126.28	7.9543	127.91	125.47	10.328	6.7688	.1644

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0001	.1004	22.046	.1006	.0486
SDev	.0001	.0000	.699	.0004	.0001
%RSD	44.82	.0406	3.1695	.4260	.3071
#1	.0001	.1004	21.982	.1013	.0487
#2	.0002	.1004	22.774	.1005	.0487
#3	.0001	.1005	21.381	.1006	.0484

Method: PROFCLP2 Sample Name: ICSAP Operator: CGZ
Run Time: 02/26/97 16:06:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.3916	510.6	1.1458	.0033	.0090	.0025	554.9
SDev	.2248	.3	.9011	.0006	.0001	.0000	1.1
%RSD	9.4001	.0529	78.645	19.52	1.035	.4573	.2043
#1	2.4376	510.3	2.1511	.0026	.0089	.0025	556.1
#2	2.5899	510.7	.41054	.0039	.0090	.0025	554.8
#3	2.1474	510.8	.87584	.0034	.0091	.0025	553.8
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0034	.0002	-.0047	207.2	.0786	537.5
SDev	.0002	.0001	.0001	.0001	.6	.0030	.9
%RSD	38.40	2.311	75.74	2.129	.2710	3.837	.1761
#1	-.0008	.0033	.0003	-.0047	207.9	.0757	538.5
#2	-.0004	.0035	.0001	-.0048	207.0	.0817	537.2
#3	-.0005	.0034	.0001	-.0047	206.8	.0784	536.7
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0089	.0014	.1156	.0037	-1.3392	2.8021	1.4234
SDev	.0002	.0006	.0010	.0001	.9910	1.9068	.9710
%RSD	2.110	42.90	.8580	2.042	73.995	68.048	68.221
#1	.0089	.0014	.1165	.0036	-.51187	1.8619	1.0718
#2	.0088	.0007	.1159	.0036	-2.4375	4.9964	2.5212
#3	.0091	.0019	.1145	.0037	-1.0684	1.5480	.67710
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150			.0400			6.0000
Low	-.0150			-.0400			-6.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.02158	-.88082	.68037	-.37246	5.3866	-4.0102	-.0671
SDev	.21340	1.99941	2.5909	1.07849	3.1482	4.3403	.0050
%RSD	988.66	226.99	380.81	289.56	58.445	108.23	7.412
#1	.06590	-2.4256	3.3476	-1.5729	8.9710	-8.1157	-.0639
#2	-.26483	1.3775	-1.8269	.51463	3.0702	.53195	-.0728
#3	.13418	-1.5944	.52045	-.05908	4.1185	-4.4469	-.0646
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

N 0091

Method: PROFCLP2 Sample Name: ICSAF Operator: CGZ
Run Time: 02/26/97 16:06 Filename: RS896
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: H2M LABS Cust. Smpl. ID.: Cust. ID.:

reprinted mtm 3/5/97 2nd page of original ICSAF Missing

Elems	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avge	2.3916	510.6	1.1458	.0033	.0090	.0025
SDev	.22481	.2694	.90111	.0006	.0001	0
%RSD	9.4001	.0528	78.645	19.52	1.035	.4573

Elems	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	554.9	-.0006	.0034	.0002	-.0047	207.2
SDev	1.134	.0002	.0001	.0001	.0001	.5616
%RSD	.2043	38.4	2.311	75.74	2.129	.271

Elems	K	Mg	Mn	Mo2020	Na	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0786	537.5	.0089	.0014	.1156	.0037
SDev	.003	.9465	.0002	.0006	.001	.0001
%RSD	3.837	.1761	2.11	42.9	.858	2.042

Elems	2203/1	2203/2	Pb2203	Sb2068	Se1960	2068/1
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.3392	2.8021	1.4234	-.02158	-.88082	.68036
SDev	.99095	1.9068	.97104	.2134	1.9994	2.5909
%RSD	73.995	68.048	68.221	988.66	226.99	380.81

Elems	2068/2	1960/1	1960/2	Sn1899	Sr4215	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm
Avge	-.37246	5.3866	-4.0102	-.0671	-.4294	-.0133
SDev	1.0785	3.1481	4.3403	.005	.0017	.0001
%RSD	289.56	58.445	108.23	7.412	.3941	.4983

Elems	Tl1908	V	Zn	*Y
Units	ppb	ppm	ppm	
Avge	4.9847	-.0001	.0006	29178.7
SDev	2.1428	.0003	.0001	53.9846
%RSD	42.988	244.5	8.951	.18501

Method: PROFCLP2 Sample Name: ICSABF Operator: CGZ
Run Time: 02/26/97 16:13:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1021.4	506.0	968.92	.9837	.5029	.5004	549.0
SDev	2.8	1.3	3.30	.0036	.0013	.0011	2.9
%RSD	.27299	.2562	.34098	.3641	.2612	.2308	.3669
#1	1022.5	505.6	969.57	.9855	.5035	.5001	547.9
#2	1018.2	504.9	965.34	.9796	.5014	.4995	547.9
#3	1023.5	507.5	971.85	.9961	.5038	.5017	551.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
Low	800.00	400.0	800.00	.8000	.4000	.4000	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9228	.4636	.4729	.5010	205.3	.0041	533.3
SDev	.0030	.0017	.0010	.0015	.7	.0014	1.9
%RSD	.3277	.3642	.2090	.2954	.3246	34.01	.3496
#1	.9220	.4635	.4727	.5015	205.0	.0036	532.7
#2	.9203	.4621	.4721	.4993	204.8	.0056	531.8
#3	.9262	.4654	.4740	.5022	206.0	.0030	535.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1.200	.6000	.6000	.6000	240.0		600.0
Low	.8000	.4000	.4000	.4000	160.0		400.0

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.4837	.9453	.0456	.9138	903.08	903.37	903.28
SDev	.0011	.0038	.0012	.0029	6.70	2.67	3.98
%RSD	.2252	.4024	2.540	.3141	.74140	.29575	.44060
#1	.4836	.9449	.0448	.9134	900.96	903.30	902.52
#2	.4827	.9418	.0469	.9111	897.71	900.74	899.73
#3	.4848	.9493	.0451	.9168	910.58	906.08	907.59
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.6000			1.200			1200.0
Low	.4000			.8000			800.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-6.7484	954.86	-4.5597	-7.8415	955.03	954.77	-.0690
SDev	2.8248	4.88	2.0828	4.3245	10.52	4.33	.0012
%RSD	41.859	.51070	45.678	57.700	1.1013	.45359	1.713
#1	-3.4879	953.33	-5.0256	-2.7207	959.21	950.40	-.0678
#2	-8.2965	950.92	-2.2934	-11.299	943.07	954.95	-.0695
#3	-8.4606	960.31	-6.3701	-9.5048	962.82	959.06	-.0698
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		1200.0					

M 0093

Low		800.00					
Elem	Sr4215	Ti	Tl1908	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.4281	-.0156	893.62	.4696	1.006		
SDev	.0010	.0002	7.05	.0004	.003		
%RSD	.2306	1.358	.78900	.0770	.3043		
#1	-.4274	-.0157	888.53	.4692	1.006		
#2	-.4276	-.0153	890.67	.4697	1.003		
#3	-.4292	-.0157	901.67	.4699	1.009		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			1200.0	.6000	1.200		
Low			800.00	.4000	.8000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29403	--	--	--	--	--	--
SDev	48.62033	--	--	--	--	--	--
%RSD	.1653561	--	--	--	--	--	--
#1	29402	--	--	--	--	--	--
#2	29453	--	--	--	--	--	--
#3	29356	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCV3 Operator: CSC
Run Time: 02/26/97 16:20:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	987.34	50.28	484.19	2.503	2.457	2.511	52.40
SDev	2.00	.07	2.25	.004	.003	.001	.06
%RSD	.20221	.1400	.46472	.1558	.1285	.0510	.1075
#1	986.79	50.36	486.36	2.498	2.455	2.512	52.46
#2	986.58	50.23	484.35	2.505	2.456	2.511	52.40
#3	990.14	50.24	481.87	2.506	2.461	2.510	52.35
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.471	2.471	2.470	2.438	49.59	79.70	49.37
SDev	.006	.000	.003	.003	.11	.08	.10
%RSD	.2347	.0058	.1098	.1353	.2256	.0973	.2041
#1	2.477	2.471	2.473	2.436	49.71	79.67	49.46
#2	2.469	2.471	2.469	2.437	49.55	79.64	49.39
#3	2.466	2.471	2.468	2.442	49.50	79.79	49.26
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.456	2.426	80.33	2.452	466.54	473.11	470.92
SDev	.001	.004	.15	.004	1.17	.43	.25
%RSD	.0281	.1574	.1834	.1431	.25133	.09089	.05265
#1	2.457	2.430	80.37	2.456	465.31	473.33	470.66
#2	2.456	2.425	80.55	2.449	466.66	473.39	471.15
#3	2.456	2.423	80.67	2.450	467.64	472.62	470.96
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		88.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	1006.1	483.41	1017.8	1000.3	479.46	485.39	4.988
SDev	4.8	1.86	3.7	7.0	3.31	4.13	.005
%RSD	.47596	.38401	.36057	.70303	.68994	.85121	.1002
#1	1004.2	482.70	1013.6	999.54	482.88	482.62	4.985
#2	1002.5	485.52	1020.4	993.63	476.23	490.14	4.984
#3	1011.5	482.02	1019.4	1007.6	479.23	483.41	4.993
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

Low	900.00	450.00					
Elem	Sr4215	Ti	Ti1903	V	Zn		
Units	ppm	ppm	ppb	ppm	ppm		
Avge	-.0899	2.440	477.50	2.428	2.540		
SDev	.0001	.001	.65	.001	.000		
%RSD	.0775	.0329	.13560	.0359	.0133		
#1	-.0899	2.440	478.25	2.429	2.541		
#2	-.0898	2.439	477.14	2.427	2.540		
#3	-.0899	2.441	477.12	2.427	2.540		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			550.00	2.750	2.750		
Low			450.00	2.250	2.250		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30847	--	--	--	--	--	--
SDev	77.13015	--	--	--	--	--	--
%RSD	.2500405	--	--	--	--	--	--
#1	30904	--	--	--	--	--	--
#2	30873	--	--	--	--	--	--
#3	30759	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCVL3 Operator: CGZ
Run Time: 02/26/97 16:28:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.54236	.0933	.73159	.0064	.0008	.0012	.1298
SDev	.21159	.0271	.94875	.0026	.0003	.0003	.0319
%RSD	39.012	29.06	129.66	39.97	39.99	20.94	24.59
#1	.51579	.1212	1.5347	.0089	.0012	.0015	.1633
#2	.76598	.0916	.97525	.0064	.0008	.0012	.1263
#3	.34532	.0670	-.31523	.0038	.0005	.0010	.0997
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0018	.0017	.0011	2.463	.0579	.1074
SDev	.0003	.0004	.0004	.0003	.002	.0106	.0307
%RSD	21.20	21.39	25.14	26.27	.0773	18.24	28.62
#1	.0017	.0023	.0021	.0013	2.464	.0679	.1388
#2	.0014	.0018	.0017	.0012	2.464	.0589	.1060
#3	.0011	.0015	.0012	.0008	2.461	.0468	.0774
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0012	.0014	2.687	.0020	-.55462	.40465	.08553
SDev	.0004	.0006	.008	.0002	1.58925	1.4745	.46808
%RSD	32.52	39.00	.3071	12.54	286.54	364.37	547.30
#1	.0016	.0019	2.697	.0022	1.2684	-1.2353	-.40117
#2	.0012	.0017	2.683	.0019	-1.2838	.92838	.12528
#3	.0008	.0008	2.682	.0017	-1.6484	1.6208	.53245
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			2.750				
Low			2.250				

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	.25448	1.5406	-.73845	.74979	3.4118	.60597	.0029
SDev	.33384	.9562	1.77530	.38973	3.3662	2.6228	.0029
%RSD	131.18	62.070	240.41	51.978	98.662	432.83	99.08
#1	-.11601	.55326	-2.7483	1.1980	3.2707	-.80382	.0038
#2	.34752	1.6061	-.08022	.56073	6.8463	-1.0104	.0052
#3	.53192	2.4623	.61331	.49065	.11844	3.6321	-.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

Low

Elem	Sr4215	Ti	Tl190S	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0002	.0013	2.2957	.0016	.0021
SDev	.0001	.0002	.4640	.0004	.0002
%RSD	26.06	12.10	20.213	23.60	7.916
#1	-.0003	.0015	2.2319	.0014	.0022
#2	-.0002	.0013	1.8668	.0021	.0021
#3	-.0002	.0013	2.7883	.0014	.0019
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30999	--	--	--	--	--	--
SDev	117.5791	--	--	--	--	--	--
%RSD	.3793039	--	--	--	--	--	--
#1	30863	--	--	--	--	--	--
#2	31056	--	--	--	--	--	--
#3	31076	--	--	--	--	--	--

Method: PROFCLP2 Sample Name: CCB3 Operator: CGC
Run Time: 02/26/97 16:35:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.71098	.0238	1.1209	.0022	-.0003	.0002	.0466
SDev	.44097	.0048	.5469	.0007	.0001	.0001	.0083
%RSD	62.023	20.04	48.791	31.55	34.59	30.04	17.91
#1	.45681	.0293	.56316	.0030	-.0002	.0003	.0553
#2	.45596	.0208	1.1433	.0020	-.0003	.0002	.0459
#3	1.2202	.0214	1.6563	.0016	-.0004	.0002	.0386
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.0200	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.0200	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0005	.0004	.0009	.0190	.0140	.0358
SDev	.0001	.0005	.0004	.0005	.0038	.0031	.0058
%RSD	23.03	98.97	93.26	54.22	20.15	21.85	16.19
#1	.0004	.0005	.0004	.0013	.0231	.0149	.0423
#2	.0006	.0000	.0000	.0004	.0183	.0106	.0311
#3	.0006	.0011	.0007	.0009	.0156	.0165	.0341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0003	.0477	.0006	-.44077	-.10913	-.21924
SDev	.0001	.0003	.0025	.0001	1.79700	1.22500	.22760
%RSD	32.39	78.93	5.293	16.68	407.70	1122.5	103.81
#1	.0004	.0006	.0486	.0005	.13934	-.62541	-.37042
#2	.0003	.0001	.0449	.0004	.99453	-.99149	-.32982
#3	.0005	.0003	.0497	.0006	-2.4562	1.2895	.04252
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.0150		5.000	.0400			3.0000
Low	-.0150		-5.000	-.0400			-3.0000

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.0084	.26947	-2.0679	-.47987	3.0488	-1.1185	.0009
SDev	.7969	1.2963	3.4347	2.82054	.9499	1.4770	.0010
%RSD	79.024	481.05	166.10	587.77	31.158	132.05	109.9
#1	-1.1801	1.4293	-3.3023	-.12075	3.7787	.25594	.0014
#2	-.13968	-1.1299	-4.7145	2.1439	1.9747	-2.6802	-.0002
#3	-1.7055	.50896	1.8135	-3.4628	3.3929	-.93122	.0016
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

M 0039

Low	-60.000	-5.0000			
Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0005	2.1913	.0008	.0009
SDev	.0001	.0002	1.0292	.0008	.0001
%RSD	205.1	45.71	46.968	101.2	8.942
#1	-.0001	.0005	2.7149	.0013	.0010
#2	-.0001	.0002	1.0056	-.0001	.0008
#3	.0001	.0006	2.8535	.0012	.0009
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			10.000	.0500	.0200
Low			-10.000	-.0500	-.0200

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30809	--	--	--	--	--	--
SDev	38.87730	--	--	--	--	--	--
%RSD	.1261892	--	--	--	--	--	--
#1	30738	--	--	--	--	--	--
#2	30854	--	--	--	--	--	--
#3	30785	--	--	--	--	--	--

M 0190

Hg DEC 124.wks

NDEC01261
NDEC 124
NDECB0012
NDECB0122

H2M LABS, INC.

Cal. std's prep'd 1/31/97
Source: High Purity

MERCURY ANALYSIS LOGBOOK

	Intensity	Time
Blank	47	7:58
0.2	3852	
1.0	18782	
2.0	37942	
5.0	94593	
10.0	184187	

ELEMENT Hg

DATE 1/31/97

INSTRUMENT ID: Leeman PS-200 r = .9999

ANALYST SIGNATURE [signature]

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
1		ICV	6.05	100.8% rec				TV = 6.00
2		ICB	<.10					
3		CCV1	6.17	102.8%				TV = 6.00
4		CCB1	<.10					
5		PB_w F	<.10					
6		PB_w	<.10					
7		PB_s	<.10		.20			
8		LCS_s	4.87		.20		2.44 mg/kg 97.2%	TV = 2.51 mg/kg
9		9702040	3.4					B60223
10		041	<.10					0223AX
11		042	.52					B60224
12		033	.13		.24			B60219
13		033D	<.10		.24			D
14	1	033S	1.14	101.0%	.24			S
15		CCV2	6.53	108.8%				
16		CCB2	<.10					
17		9702043	<.10					0224AX
18		235	.38		.21			XX0013
19		236	<.10		.24			XX0014
20		440	<.10					XX0025
21		616	<.20					"
22		617	<.20					↓
23		618	.27					
24		044	.56					B60225
25		044D	.56					D

Reviewed By: [signature]

Date: 3/4/97

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT Hg DATE 1/31/97

INSTRUMENT ID: _____ ANALYST SIGNATURE [signature]

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
26	1	9702044S	1.62	106.0%				BB0225S
27		CCV3	6.38	106.3%				
28		CCB3	<.10					
29		9702619	<.20					"
30		620	<.20					
31		621	<.20					
32		622	.37					
33		623	<.20					
34		624	<.20					
35		625	<.20					
36		045	<.10					0225AX
37		045D	<.10					D
39	1	045S	1.05	105.0%				S
39		CCV4	6.14	102.3%				
40		CCB4	<.10					
41		9702626	<.20					"
42		627	<.20					
43		628	<.20					
44		629	<.20					
45		630	<.20					
2		631	<.20					
3		141	.65		.22	12.5	2.4 mg/Kgm	
4		305	<.10		.23			BB0240
5		305D	<.10		.23			D
6	1	305S	1.12	112.0%	.23			S

M 0102 P 0034

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT Hg DATE 1/31/97

INSTRUMENT ID: _____ ANALYST SIGNATURE William Fitter

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mg/kg	SAMPLE ID/NOTES
7		CCV5	6.26	104.3%				
8		CCB5	<.10					
9		9702431	<.20		.21			ZZZZZZ
10		687	<.20					
11		688	<.20					
12		689	<.20					
13		690	<.20					
14		691	<.20					
15		708	<.20					
16		438	<.10					XX0023
17		438D	<.10					D
18	1	438S	1.01	101.0%				S
19		CCV6	6.08	101.3%				
20		CCB6	<.10					
21		9702234	.41		.20			XX0012
22		234D	.57		.20			D
23	1	234S	1.47	106.0%	.20			S
24		CCV7	6.17	102.8%				
25		CCB7	<.10					

M 0103

P 0035

H2M LABS, INC.

SDG NO.: DEC 124
DATE: 1/31/97
ANALYST: M Tibbetts
ELEMENT: Hg

METALS QC CHECKLIST

	YES	NO	NA
GENERAL			
1. ICV, CCV'S WITHIN 90-110% REC? IF NO, RECALIBRATE	✓		
1A. ARE THERE ONLY 10 SAMPLES BETWEEN CCV/CCB?	✓		
2. LCS WITHIN 80-120% REC? IF NO, REDIGESTION	✓		
3. PREP BLANK - ABSOLUTE VALUE AT OR BELOW CRDL? IF NO, REDIGESTION	✓		
4. ARE THE "S" SPIKE RECOVERIES CHECKED?	✓		
5. IS THE LCS SAMPLE LABELLED AS WATER OR SOIL?	✓		
6. IS THE PREP BLANK LABELLED AS WATER OR SOIL?	✓		
7. WERE DILUTIONS REQUIRED FOR ANY SAMPLES?		✓	
8. WAS REANALYSIS OF DILUTED SAMPLES PERFORMED AND CALCULATED CORRECTLY?			✓
9. ARE SAMPLES CHECKED AGAINST COC FOR PROPER LAB NO. & ID?	✓		
10. ARE ALL PAGES SIGNED AND DATED?	✓		
11. WAS A CRA/CRI STD. ANALYZED?			✓
12. ARE ALL RESULTS REPORTED TO THE CORRECT DEC.?	✓		
13. IS THE INITIAL CAL. COEFF. > 0.995?	✓		
14. ARE ALL ERRORS/CHANGES CORRECTED BY ONE LINE CROSSOUT WITH INITIALS AND DATE?	✓		
FURNACE			
15. PREP BLANK SPIKE WITHIN 85-115%? IF NO, REANALYZE ONCE			
16. RSD'S WITHIN 20% CONCENTRATION >CRDL IF NO, REPEAT ONCE			
17. RESULTS, POST SPIKES, MSA'S WITHIN CALIBR. RANGE? IF NO, DILUTE			
18. DID ANY SAMPLES REQUIRE MSA ANALYSIS?			
19. WAS MSA ANALYSIS COMPLETED DURING THIS RUN?			
20. ARE TIMES RECORDED FOR START/ICV/ICB/CCV/CCB?			
ICP			
21. ARE ALL TCLP/EPTOX SAMPLES MATRIX CORRECTED OR ANALYZED BY MSA?			
22. WAS A SERIAL DILUTION ANALYZED FOR EACH MATRIX AND DILUTION?			

COMMENTS

POST SPIKE RECOVERIES WITHIN 85-115% : NO FLAG, NO ACTION REQUIRED
NOT WITHIN 85-115% AND SAMPLE ABS. <50% OF SPIKE ABS. FLAG "W"
NOT WITHIN 85-115% AND SAMPLE ABS. >50% OF SPIKE ABS. MSA
RECOVERY <40% , DILUTE, SPIKE, REANALYZE

M 0104

William Fitzsimmons

07:58:58 31 Jan 1997 Folder: HGDEC124 Protocol: MERCURY

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 07:58:58 31 Jan 1997 HG

Hg .000 ppb 47
Ave. Int. = 47 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 08:01:20 31 Jan 1997 HG

Hg .200 ppb 3852
Ave. Int. = 3852 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 08:03:42 31 Jan 1997 HG

Hg 1.00 ppb 18782
Ave. Int. = 18782 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 08:06:05 31 Jan 1997 HG

Hg 2.00 ppb 37942
Ave. Int. = 37942 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 08:08:32 31 Jan 1997 HG

Hg 5.00 ppb 94593
Ave. Int. = 94593 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 08:11:10 31 Jan 1997 HG

Hg 10.0 ppb 184187
Ave. Int. = 184187 S. D. = 0

Protocol: MERCURY

Rev: 3.001 Time: 08:12:12 31 Jan 1997

Folder: HGDEC124 Seq: 6 Print: On

User: W.FITTERER Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

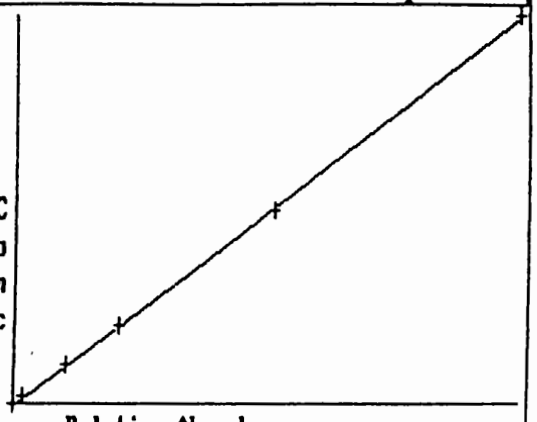
Line: Hg

	Conc.	Calc.	Dev.
S1	.000	-.029	-.029
S2	.200	.177	-.023
S3	1.00	.986	-.014
S4	2.00	2.02	.024
S5	5.00	5.09	.094
S6	10.0	9.95	-.051

Accepted
LiNear
Quadratic
WtdLinear
Accept
StdAdd

Coefficients

A	.0000000	r	.999989
B	5.41878e-5	C	-3.19157e-2



	Mean	%RSD	
S1	47	0	47
S2	3852	0	3852
S3	18782	0	18782
S4	37942	0	37942
S5	94593	0	94593
S6	184187	0	184187

New calibration coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV				Seq: 6		08:14:13 31 Jan 1997 HG		
Hg	6.05	ppb	.000	6.05				
*** Sample ID: ICB				Seq: 7		08:16:50 31 Jan 1997 HG		
Hg	-.058	ppb	.000	-.058				
*** Sample ID: CCV1				Seq: 8		08:19:06 31 Jan 1997 HG		
Hg	6.17	ppb	.000	6.17				
*** Sample ID: CCB1				Seq: 9		08:21:44 31 Jan 1997 HG		
Hg	-.045	ppb	.000	-.045				
*** Sample ID: PBWF				Seq: 10		08:24:02 31 Jan 1997 HG		
Hg	-.025	ppb	.000	-.025				
*** Sample ID: PBW				Seq: 11		08:26:19 31 Jan 1997 HG		
Hg	-.019	ppb	.000	-.019				
*** Sample ID: PBS				Seq: 12		08:28:36 31 Jan 1997 HG		
Hg	-.006	ppb	.000	-.006				
*** Sample ID: LCSS				Seq: 13		08:30:53 31 Jan 1997 HG		
Hg	4.87	ppb	.000	4.87				
*** Sample ID: B60223				Seq: 14		08:33:24 31 Jan 1997 HG		
Hg	3.39	ppb	.000	3.39				
*** Sample ID: 0223AX				Seq: 15		08:35:54 31 Jan 1997 HG		
Hg	-.059	ppb	.000	-.059				
*** Sample ID: B60224				Seq: 16		08:38:12 31 Jan 1997 HG		
Hg	.520	ppb	.000	.520				
*** Sample ID: B60219				Seq: 17		08:40:28 31 Jan 1997 HG		
Hg	.129	ppb	.000	.129				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60219D @				Seq: 18		08:42:43 31 Jan 1997 HG		
Hg	-.011	ppb	.000	-.011				
*** Sample ID: B60219S				Seq: 19		08:44:58 31 Jan 1997 HG		
Hg	1.14	ppb	.000	1.14				
*** Sample ID: CCV2				Seq: 20		08:47:15 31 Jan 1997 HG		
Hg	6.53	ppb	.000	6.53				
*** Sample ID: CCB2				Seq: 21		08:49:46 31 Jan 1997 HG		
Hg	-.042	ppb	.000	-.042				
*** Sample ID: 0224AX				Seq: 22		08:52:01 31 Jan 1997 HG		
Hg	-.038	ppb	.000	-.038				
*** Sample ID: XX0013				Seq: 23		08:54:16 31 Jan 1997 HG		
Hg	.381	ppb	.000	.381				
*** Sample ID: XX0014				Seq: 24		08:56:31 31 Jan 1997 HG		
Hg	.030	ppb	.000	.030				
*** Sample ID: XX0025				Seq: 25		08:58:46 31 Jan 1997 HG		
Hg	-.031	ppb	.000	-.031				
*** Sample ID: ZZZZZZ				Seq: 26		09:01:01 31 Jan 1997 HG		
Hg	.001	ppb	.000	.001				
*** Sample ID: ZZZZZZ				Seq: 27		09:03:16 31 Jan 1997 HG		
Hg	-.024	ppb	.000	-.024				
*** Sample ID: ZZZZZZ				Seq: 28		09:05:31 31 Jan 1997 HG		
Hg	.268	ppb	.000	.268				
*** Sample ID: B60225				Seq: 29		09:07:45 31 Jan 1997 HG		
Hg	.556	ppb	.000	.556				

M 0108

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60225D				Seq: 30	09:09:59 31 Jan 1997 HG			
Hg	.558	ppb	.000	.558				
*** Sample ID: B60225S				Seq: 31	09:12:13 31 Jan 1997 HG			
Hg	1.62	ppb	.000	1.62				
*** Sample ID: CCV3				Seq: 32	09:14:31 31 Jan 1997 HG			
Hg	6.38	ppb	.000	6.38				
*** Sample ID: CCB3				Seq: 33	09:16:56 31 Jan 1997 HG			
Hg	-.047	ppb	.000	-.047				
*** Sample ID: ZZZZZZ				Seq: 34	09:19:10 31 Jan 1997 HG			
Hg	-.024	ppb	.000	-.024				
*** Sample ID: ZZZZZZ				Seq: 35	09:21:24 31 Jan 1997 HG			
Hg	-.025	ppb	.000	-.025				
*** Sample ID: ZZZZZZ				Seq: 36	09:23:38 31 Jan 1997 HG			
Hg	.020	ppb	.000	.020				
*** Sample ID: ZZZZZZ				Seq: 37	09:25:53 31 Jan 1997 HG			
Hg	.371	ppb	.000	.371				
*** Sample ID: ZZZZZZ				Seq: 38	09:28:08 31 Jan 1997 HG			
Hg	-.032	ppb	.000	-.032				
*** Sample ID: ZZZZZZ				Seq: 39	09:30:22 31 Jan 1997 HG			
Hg	-.016	ppb	.000	-.016				
*** Sample ID: ZZZZZZ				Seq: 40	09:32:35 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: 0225AX				Seq: 41	09:34:49 31 Jan 1997 HG			
Hg	-.028	ppb	.000	-.028				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 0225AXD				Seq: 42	09:37:03 31 Jan 1997 HG			
Hg	-.032	ppb	.000	-.032				
*** Sample ID: 0225AXS				Seq: 43	09:39:17 31 Jan 1997 HG			
Hg	1.05	ppb	.000	1.05				
*** Sample ID: CCV4				Seq: 44	09:41:33 31 Jan 1997 HG			
Hg	6.14	ppb	.000	6.14				
*** Sample ID: CCB4				Seq: 45	09:44:02 31 Jan 1997 HG			
Hg	-.051	ppb	.000	-.051				
*** Sample ID: ZZZZZZ				Seq: 46	09:46:16 31 Jan 1997 HG			
Hg	-.011	ppb	.000	-.011				
*** Sample ID: ZZZZZZ				Seq: 47	09:48:30 31 Jan 1997 HG			
Hg	-.021	ppb	.000	-.021				
*** Sample ID: ZZZZZZ				Seq: 48	09:50:45 31 Jan 1997 HG			
Hg	-.028	ppb	.000	-.028				
*** Sample ID: ZZZZZZ				Seq: 49	09:53:00 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ				Seq: 50	09:55:16 31 Jan 1997 HG			
Hg	.123	ppb	.000	.123				
*** Sample ID: ZZZZZZ				Seq: 51	09:57:31 31 Jan 1997 HG			
Hg	-.041	ppb	.000	-.041				
*** Sample ID: ZZZZZZ				Seq: 52	09:59:46 31 Jan 1997 HG			
Hg	.646	ppb	.000	.646				
*** Sample ID: B60240				Seq: 53	10:02:02 31 Jan 1997 HG			
Hg	-.046	ppb	.000	-.046				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: B60240D				Seq: 54	10:04:17 31 Jan 1997 HG			
Hg	-.015	ppb	.000	-.015				
*** Sample ID: B60240S				Seq: 55	10:06:33 31 Jan 1997 HG			
Hg	1.12	ppb	.000	1.12				
*** Sample ID: CCV5				Seq: 56	10:08:50 31 Jan 1997 HG			
Hg	6.26	ppb	.000	6.26				
*** Sample ID: CCB5				Seq: 57	10:11:19 31 Jan 1997 HG			
Hg	-.051	ppb	.000	-.051				
*** Sample ID: ZZZZZZ				Seq: 58	10:13:34 31 Jan 1997 HG			
Hg	.011	ppb	.000	.011				
*** Sample ID: ZZZZZZ				Seq: 59	10:15:49 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ				Seq: 60	10:18:04 31 Jan 1997 HG			
Hg	-.027	ppb	.000	-.027				
*** Sample ID: ZZZZZZ				Seq: 61	10:20:21 31 Jan 1997 HG			
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ				Seq: 62	10:22:37 31 Jan 1997 HG			
Hg	.001	ppb	.000	.001				
*** Sample ID: ZZZZZZ				Seq: 63	10:24:53 31 Jan 1997 HG			
Hg	-.037	ppb	.000	-.037				
*** Sample ID: ZZZZZZ				Seq: 64	10:27:10 31 Jan 1997 HG			
Hg	.015	ppb	.000	.016				
*** Sample ID: XX0023				Seq: 65	10:29:27 31 Jan 1997 HG			
Hg	-.025	ppb	.000	-.025				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: XX0023D				Seq: 66	10:31:44 31 Jan 1997 HG			
Hg	-.028	ppb	.000	-.028				
*** Sample ID: XX0023S				Seq: 67	10:34:01 31 Jan 1997 HG			
Hg	1.01	ppb	.000	1.01				
*** Sample ID: CCV6				Seq: 68	10:36:18 31 Jan 1997 HG			
Hg	6.08	ppb	.000	6.08				
*** Sample ID: CCB6				Seq: 69	10:38:46 31 Jan 1997 HG			
Hg	-.056	ppb	.000	-.056				
*** Sample ID: XX0012				Seq: 70	10:41:03 31 Jan 1997 HG			
Hg	.410	ppb	.000	.410				
*** Sample ID: XX0012D				Seq: 71	10:43:20 31 Jan 1997 HG			
Hg	.573	ppb	.000	.573				
*** Sample ID: XX0012S				Seq: 72	10:45:38 31 Jan 1997 HG			
Hg	1.47	ppb	.000	1.47				
*** Sample ID: CCV7				Seq: 73	10:47:57 31 Jan 1997 HG			
Hg	6.17	ppb	.000	6.17				
*** Sample ID: CCB7				Seq: 74	10:50:26 31 Jan 1997 HG			
Hg	-.051	ppb	.000	-.051				

IV. DOCUMENTATION FOR METALS

A. DIGESTION LOG SHEETS
B. TOTAL SOLIDS LOG SHEETS
C. REPORTING ANALYST SIGNATURE PAGE

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLP DIGESTION LOG Time Start 20:03

CLIENT: NDECB - NDEC
SDG #: 0012 - 124
MATRIX: SOIL
METHOD: CLP AS70 - AC70

ANALYST SIGNATURE: M E Wilson
DATE: Feb 18, 97

SAMPLE ID#	LAB NO.	DIG TYPE	INITIAL VOL.	FINAL VOL	SPIKE / NOTES	DESCRIPTION BEFORE	DESCRIPTION AFTER
0012 MS/	9702234	FE	1.00g	100ml		Dk GREY COARSE	TINGE YELLO CLEAR
MSD					Dup Spike + 1.0ml LOT 690423 Hg/FE Hg/purity		NDEC3 0012
0013	35						YELLO CLEAR
0014	36					BROWN WET FINE	colorless clear
Blank		R				colorless clear	
LCS					(LOT 23C - ERA)	TBROWN FINE	YELLO clear
0240 MS/	9702305	FE	1.00g	200ml		BROWN & MEDIUM	colorless clear
MSD					Dup Spike +2.0ml LOT # 690423 Hg/FE Hg/purity		NDEC 124
Blank		R				colorless clear	
LCS					LOT 23D ERA)	BROWN FINE	LITE YELLO clear

COMMENTS:

- Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
- Description of texture: fine, medium, coarse.
- Description of clarity: clear, cloudy, opaque.
- Description of artifacts: yes or no and describe.

Hg DEC 124.wks NDEC 01261
NDEC 124
NDECB0012
NDECB 0122

H2M LABS, INC.

Digestion 12:00-14:00

NAME: William Bittner
DATE: 1/30/97

HG DIGESTIONS

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
ICV	TV=6.00		0.6ml/100	100		
ICB			100			
CCV1	TV=6.00		0.6ml/100			
CCB1			100			
PBW			100			
PBS		.20				
LCSS	ERA 230	.20				
9702040	B60223		100			
041	0223AX	.22				
042	B60224		100			
033	B60219	.24				
033D	D	.24				
033S	S	.24				1
043	0224AX		100			
235	XX0013	.21				
236	XX0014	.24				
440	XX0025		100			
044	B60225					
044D	D					
044S	S					1
045	0225AX					
045D	D					
045S	S					1
305	B60240	.23				
305D	D	.23				

M 0115

H2M LABS, INC.

NAME: William Fitton
DATE: 1/30/97

HG DIGESTIONS

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
9702305	B60240 S	.23		100		1
436	XX0023		100			
436D	D					
436S	S					1
234	XX0012	.20				
234D	D	.20				
234S	S	.20				1
	Cal std prep			1/31/97		
0.2 ppb			.02ml/100	100		
1.0			.10ml/100			
2.0			.20ml/100			
5.0			.50ml/100			
10.0			1.0ml/100			

M 0116

NDEC
#123 ; #124

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 11:45 (MFM) ~~4:30 (24)~~

END TIME: 8:30 (30)

DATE: 1/29/97

ANALYST: MFM

LAB# 9702300 (B60231)	PAN/CRUCIBLE NJ	
%TS 97.3%	%TVS	
INITIAL WEIGHT 10.1461	DRY WEIGHT 9.9031	DRY WEIGHT
-TARE WEIGHT - 1.2980	-TARE WEIGHT - 1.2980	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.8481	=SOLID WEIGHT = 8.6051	=VOLATILE WEIGHT =

LAB# 9702301 (B60232)	PAN/CRUCIBLE NI	
%TS 96.6%	%TVS	
INITIAL WEIGHT 11.2670	DRY WEIGHT 10.9244	DRY WEIGHT
-TARE WEIGHT - 1.3217	-TARE WEIGHT - 1.3217	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.9453	=SOLID WEIGHT = 9.6027	=VOLATILE WEIGHT =

LAB# 9702302 (B60233)	PAN/CRUCIBLE NH	
%TS 97.4%	%TVS	
INITIAL WEIGHT 10.6596	DRY WEIGHT 10.4125	DRY WEIGHT
-TARE WEIGHT - 1.3146	-TARE WEIGHT - 1.3146	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.345	=SOLID WEIGHT = 9.0979	=VOLATILE WEIGHT =

LAB# 9702303 (B60234)	PAN/CRUCIBLE NG	
%TS 96.4%	%TVS	
INITIAL WEIGHT 12.2328	DRY WEIGHT 11.8449	DRY WEIGHT
-TARE WEIGHT - 1.3080	-TARE WEIGHT - 1.308	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 10.9248	=SOLID WEIGHT = 10.5369	=VOLATILE WEIGHT =

LAB# 9702304 (B60236)	PAN/CRUCIBLE NF	
%TS 89.7%	%TVS	
INITIAL WEIGHT 10.1974	DRY WEIGHT 9.2850	DRY WEIGHT
-TARE WEIGHT - 1.3127	-TARE WEIGHT - 1.3127	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.8847	=SOLID WEIGHT = 7.9723	=VOLATILE WEIGHT =

LAB# 9702305 (B60240)	PAN/CRUCIBLE NA	
%TS 97.9%	%TVS	
INITIAL WEIGHT 12.0063	DRY WEIGHT 11.7790	DRY WEIGHT
-TARE WEIGHT - 1.3215	-TARE WEIGHT - 1.3215	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 10.6848	=SOLID WEIGHT = 10.4575	=VOLATILE WEIGHT =

M 0111

NDEC
#123, #124

OTAL SOLIDS FOR SLUDGES AND SOILS

TART TIME: 11:45 (29)

ND TIME: 8:30 (30)

DATE: 1/30/97 (29) MFM 3/7/97

ANALYST: MFM

LAB# 9702306 (Blk 241)	PAN/CRUCIBLE NE		LAB# 9702308 DUP	PAN/CRUCIBLE NB	
%TS 98.3%	%TVS		%TS 96.4%	%TVS RPD = 0.31	
INITIAL WEIGHT 10.9650	DRY WEIGHT 10.8055	DRY WEIGHT	INITIAL WEIGHT 12.6461	DRY WEIGHT 12.2380	DRY WEIGHT
-TARE WEIGHT - 1.3159	-TARE WEIGHT - 1.3158	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3123	-TARE WEIGHT - 1.3123	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.6492	=SOLID WEIGHT = 9.4897	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 11.3338	=SOLID WEIGHT = 10.9257	=VOLATILE WEIGHT =
LAB# 9702307 (Blk 242)	PAN/CRUCIBLE ND		LAB# 9702305 DUP	PAN/CRUCIBLE NZ	
%TS 96.9%	%TVS		%TS 97.8%	%TVS RPD = 0.16	
INITIAL WEIGHT 10.3530	DRY WEIGHT 10.0718	DRY WEIGHT	INITIAL WEIGHT 12.4957	DRY WEIGHT 12.2543	DRY WEIGHT
-TARE WEIGHT - 1.3093	-TARE WEIGHT - 1.3093	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3163	-TARE WEIGHT - 1.3163	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.0437	=SOLID WEIGHT = 8.7625	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 11.1794	=SOLID WEIGHT = 10.958	=VOLATILE WEIGHT =
LAB# 9702308 (Blk 243)	PAN/CRUCIBLE NC		LAB#	PAN/CRUCIBLE	
%TS 96.7%	%TVS		%TS	%TVS MFM 1/30/97	
INITIAL WEIGHT 10.5730	DRY WEIGHT 10.2692	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 1.3194	-TARE WEIGHT - 1.3194	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
SAMPLE WEIGHT 9.2536	=SOLID WEIGHT = 8.9498	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

M 0110

H2M LABS, INC.

CASE #: [illegible]

SDG #: [illegible]

SCAN: [illegible]

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: [illegible]

Date: [illegible]

M 011[illegible]

H2M LABS, INC.

An Employee-Owned Company

575 Broad Hollow Road, Melville, NY 11747-5076
(516) 694-3040 • FAX: 516-420-8436

February 17, 1997

Mr. Joseph Jones
NYSDEC Region 0
50 Wolf Road
Albany, NY 12233-7010

Re: Contract: C003180
Case No.: RA096
SDG No.: 0123

Dear Mr. Jones,

Enclosed please find copies of the analytical data and summary packages for the water and soil samples received at our laboratory on January 24, 1997. These samples were analyzed for volatile organics in accordance with the NYSDEC ASP CLP protocol (9/93 revision).

The original copy of the report has been forwarded to Mr. Jack Ryan of the Albany Office.

Please contact me at anytime if you have any questions.

Very truly yours,

Joanne Duignan
QA/QC Section Supervisor

Enclosures

c:\windoc\declet97.doc

MEMBER ACIL

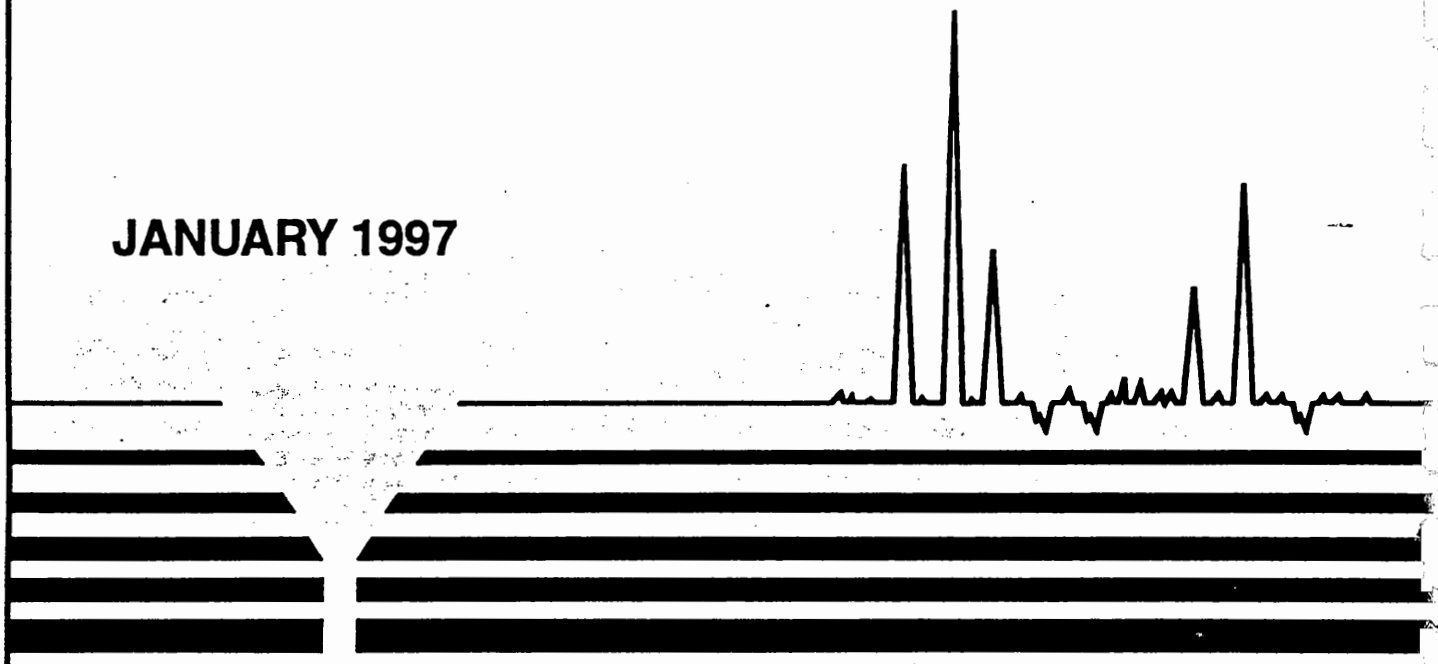
Analytical Data Package For

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT NO.: C003180
CASE NO.: RA096
SDG NO.: 0123
ASP CLP PACKAGE

RECEIVED: JANUARY 24, 1997

VOLATILE DATA PACKAGE

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

ANALYTICAL DATA PACKAGE

TABLE OF CONTENTS

NYS DEC
CONTRACT NO.: CO03180
CASE NO.: RA096
SDG NO.: 0123
SAMPLE RECEIVED: 01/24/97
WATER AND SOIL SAMPLES

I. NYS DEC SUMMARY FORMS

II. SDG NARRATIVES

III. CONTRACT LAB SAMPLE INFORMATION SHEETS

IV. CHAIN OF CUSTODY DOCUMENTATION

V. ANALYTICAL DATA PACKAGE

A. VOLATILES

VI. CSF PURGE PACKAGE (BTSR ONLY)

DATA PACKAGE FOR CLIENT INFORMATION PURPOSES ONLY

H2M LABS, INC.

I. NYS DEC SUMMARY FORMS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
NYS DEC
CONTRACT NO.: C003180
CASE NO.: RA096
SAMPLES RECEIVED: 01/24/97
SDG NO: 0123

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*PEST PCBs	*HERB	*METALS	OTHER
B60226	9702290	X					
B60227	9702291	X					
B60228	9702292	X					
B60229	9702293	X					
B60230	9702294	X					
B60231	9702300	X					
B60232	9702301	X					
B60233	9702302	X					
B60234	9702303	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) ASP CLP 9/93
* TCL/TAL, HSL, Priority Pollutant VOA only

VOLATILE SAMPLE ANALYSIS SUMMARY

SDG: 123

SAMPLE ID	MATRIX	PROT-OCOL	LEVEL	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
B60226	WATER	CLP	LOW	1	1/23/97	1/24/97	1/28/97
B60227	WATER	CLP	LOW	1	1/23/97	1/24/97	1/28/97
B60227DL	WATER	CLP	LOW	5	1/23/97	1/24/97	1/29/97
B60228	WATER	CLP	LOW	1	1/23/97	1/24/97	1/28/97
B60229	WATER	CLP	LOW	1	1/23/97	1/24/97	1/28/97
B60230	WATER	CLP	LOW	1	1/23/97	1/24/97	1/28/97
B60231	SOIL	CLP	LOW	1	1/23/97	1/24/97	1/27/97
B60232	SOIL	CLP	LOW	1	1/23/97	1/24/97	1/27/97
B60233	SOIL	CLP	LOW	1	1/23/97	1/24/97	1/27/97
B60234	SOIL	CLP	LOW	1	1/23/97	1/24/97	1/27/97

II. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR
VOLATILE ORGANICS
NYS DEC
CONTRACT #C003180
CASE #RA096
SDG #0123
SAMPLES RECEIVED: 01/24/97

FOR SAMPLES:	B60226	B60231
	B60227	B60232
	B60228	B60233
	B60229	B60234
	B60230	

The above soil and water samples were analyzed according to the requirements of the NYS DEC ASP method 91-1 for the TCL volatile organic analytes. No matrix spike/matrix spike duplicate was submitted for this SDG.

Sample B60227 was analyzed at a dilution due to levels of targeted analytes above the calibration range. The diluted analysis had high recoveries for the surrogate standard d-4 1,4-dichloroethane. Both sets of data are submitted.

All quality control and calibration requirements were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 17, 1997

****
* Sign for Joann Slavin *
****

Joann M. Slavin
Quality Assurance Manager

A 0096

III. CONTRACT LAB SAMPLE INFORMATION SHEETS

Send This Sheet with Sample to Contract Lab

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC'MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: J G Jones	TELEPHONE NUMBER: 518 457-1708	REGION NO: 7
CONTRACT LAB: H2M	COUNTY: Nassau	SAMPLING DATE: 1/23/97
		MILITARY TIME: 14:35

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
RA1096	01123	B61012216	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B. unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 6008

4-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9 BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
J C Jones	516-477-1705	1

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
H2M	Nassau	01/23/97	15:00

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
K 0 0 9 6	0 1 2 3	B 6 0 2 2 7	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0099

74-15-1 (4/91.—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

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- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5 Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21 Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64 Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
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- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
J S J...	[illegible] 1708	1

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
H, M	N...	1/23/97	17:25

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
R A 0 9 6	0 1 2 3	B 6 0 2 2 8	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week ☐ Report via Catagory B. unless checked

SAMPLING POINT	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0010

4-15-1 (4/91):—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

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Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

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- ☐ 8 Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11 COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17 Total Phosphorus
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- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

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- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
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- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

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- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: J C J	TELEPHONE NUMBER: 518 457-1707	REGION NO: 1
CONTRACT LAB: H. M	COUNTY: N. [illegible]	SAMPLING DATE: 1/23/87
MILITARY TIME: 12:00		

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
R A 0 9 6	0 1 2 3	B 6 0 2 2 9	☐ This Sample	☐ Composite ☐ Grab ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week. Report via Catagory B. unless checked ☐

SAMPLING POINT	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 6011

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3 Volatiles—(USEPA 624 GC MS)
- ☐ 6 Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC MS)
- ☐ 5. Cyanide
- ☐ 9 BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15 Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18 Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60 PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64 Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☑ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34 Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
J. G. J[illegible]	1-5[illegible]4-[illegible]17[illegible]	1

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
H[illegible]	N[illegible]	1/23/97	13:30

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
RA096	0123	B60230	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week ☐ Report via Catagory B. unless checked

SAMPLING POINT

Check if field duplicate ☐ Outfall Number ☐ Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

A 0012

...ract Lab

4-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3 Volatiles—(USEPA 624 GC/MS)
- ☐ 6 Pesticides/PCB's (USEPA 608-GC)
- ☐ 4 Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5 Cyanide
- ☐ 9 BOD
- ☐ 7 Halogenated Volatiles (USEPA 601-GC)
- ☐ 8 Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15 Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64 Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: J G J...	TELEPHONE NUMBER: 518-457-17[illegible]	REGION NO: 1
CONTRACT LAB: H M	COUNTY: N...sau	SAMPLING DATE: 01/23/97
		MILITARY TIME: 14:50

SAMPLE MATRIX:

☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
R A 0 9 6	0 1 2 3	B C 0 2 3 1	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week ☐ Report via Catagory B. unless checked

SAMPLING POINT	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0013

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6 Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9 BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11 COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18 Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21 Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64 Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☑ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
J.G. J...	518 43? 170[illegible]	1

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
H2M	N...	01/23/97	15:25

SAMPLE MATRIX:
☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
RA0196	01123	B60232	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B. unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

4-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6 Pesticides/PCB s (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5 Cyanide
- ☐ 9 BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8 Aromatic Volatiles (USEPA 602-GC
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15 Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: J G Jr.,	TELEPHONE NUMBER: [illegible]	REGION NO: 1
CONTRACT LAB: H, M	COUNTY: N...	SAMPLING DATE: 1/23/97
		MILITARY TIME: 16:00

SAMPLE MATRIX:

☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
R A 0 9 6	0 1 2 3	B 6 0 2 3 3	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B. unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ | Outfall Number | Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER | FLOW GPD MGD

A 6015

Send This Sheet With Sample to Contract Lab

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

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Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12 TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64 Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: J. C Jones	TELEPHONE NUMBER: 518-457-1764	REGION NO: 7
CONTRACT LAB: H2M	COUNTY: Nassau	SAMPLING DATE: 1/23/97
		MILITARY TIME: 1613

SAMPLE MATRIX:
☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
RA1096	01123	B60234	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0016

IV. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

No 6401

EXTERNAL CHAIN OF CUSTODY

NDEC 0123/0124

PROJ. NO.	PROJECT NAME
RAOIC	Atlas Graphics

SAMPLERS: (Signature)/Client
J. G Jonn - NYSDEC

DELIVERABLES:
AC-70

Refrigerator #

NOTES: Soil

9702300-308

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. No.	REMARKS
1/23/97	14:15	Soil	B60231	1	1					9702300	AGSP-03 (5-7)
1/23/97	15:25	Soil	B60232							01	AGSP-03 (10-12)
1/23/97	16:00	Soil	B60233							02	AGSP-03 (22-24)
1/23/97	16:35	Soil	B60234							03	AGSP-03 (30-32)
1/24/97	09:15	Soil	B60236							04	AGSP-03 (40-42)
1/24/97	15:15	Soil	B60241							06	AGSP-04 (5-7)
1/24/97	15:25	Soil	B60242							07	AGSP-04 (10-12)
1/24/97	15:25	Soil	B60240		JJ 1/29/97			3		05	MS/MSD
1/24/97	16:07	Soil	B60243							308	

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
J. G. Jonn	1/24/97	16:47			
Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
Relinquished by: (Signature)	Date	time	Received for Laboratory by: (Signature)	Date	time
				1/24/97	16:45

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or N
NOTES:

LABORATORY USE ONLY

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill # _____
2) Ambient or Chilled
3) Recieved in Good Condition Y or N
4) Properly Preserved Y or N
5) Samples returned to lab. ___ hours from Collection

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) COC Record Present and Complete Upon Sample Rec'd. Y or N

ORIGINAL COPY

A 0019

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

EXTERNAL CHAIN OF CUSTODY

NDEC 0123/0124

PROJ. NO.	PROJECT NAME
RA096	Atlas Graphics

SAMPLERS: (Signature)/Client
T.G. Jones - NYSDEC

DELIVERABLES:
ASP-70

Refrigerator #

SAMPLE CONTAINER DESCRIPTION →

40 ml. Vial

TOTAL NO. OF CONTAINERS ↓

ANALYSIS REQUESTED

ORGANIC: VOA | BNA | Pest/PCB

INORG.: Metal | CN

NOTES:
Water

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	VOA	BNA	Pest/PCB	Metal	CN	LAB I.D. No.	REMARKS
1/23/97	17:25	Water	BG0228	2	2					9702290-	• LI-11813
1/23/97	15:40	Water	BG0227							2298	• NC-2
1/23/97	17:35	Water	BG0226								• NC-20
1/23/97	12:00	Water	BG0229								• NC-17
1/24/97	17:15	Water	BG0235							9702295	A66W-01 (76.70)
1/24/97	17:30	Water	BG0230								A66W-01 (56.60)
1/24/97	14:00	Water	BG0237 JT 1/24/97								A66W-03 (76.90)
1/24/97	14:15	Water	BG0238								A66W-03 (66.70)
1/24/97	14:30	Water	BG0239								(56.60)
		Water	TRIP BLANK	↓	↓					9702299	—

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
T.G. Jones	1/24/97	16:45			
Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
Relinquished by: (Signature)	Date	time	Received for Laboratory by: (Signature)	Date	time
				1/24/97	16:45

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or N
NOTES:

LABORATORY USE ONLY

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill # _____
2) Ambient or Chilled 4°C
3) Recieved in Good Condition Y or N
4) Properly Preserved Y or N
5) Samples returned to lab. ___ hours from Collection

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) COC Record Present and Complete Upon Sample Rec't. Y or N

ORIGINAL COPY

A 6018

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: AC-70 TURN AROUND TIME Stand

SDG #: 123 CASE #: RA096 MATRIX: GW/SO pH CHECK Y or N

REMARKS:

RECEIVED BY: TAJ SIGNATURE [signature] DATE 1-24-97 TIME: 16:45

	CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	B60226	9702290	1-23-97	TAJ 1/24/97 A D	TAJ 1/24/97 2	PUTCL
2	B60227	291				
3	B60228	292				
4	B60229	293				
5	B60230	294				
6	B60231	9702300		A		
7	B60232	301				
8	B60233	302				
9	B60234	303				
10	~~236~~ 230 TAJ 1/24/97					
11						
12						
13						
14						
15						
16						
17						
18						
19	TAJ 1-24-97					
20						

P 0031

A 0020

TRIM LABS, INC.
Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

EXTERNAL CHAIN OF CUSTODY

0122

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)/Client

DELIVERABLES: AS-70

Refrigerator #

NOTES: Matrix - GW

COPY ORIGINAL LOCATED
Cust. Engr. Site: 0127
INIT JH DATE 3/2/11

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	SAMPLE CONTAINER DESCRIPTION	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. No.	REMARKS
					40 ml Vials				1 l PLASTIC			
1/22/97	14:45	Water	B60220 (66-70)	2	2						9702037	
1/22/97	15:15	Water	B60221 (66-70)	2								
	15:50	Water	B60222 (56-60)	2							V039	
	15:50		B60225 (56-60)	3					3		9702044	MS/MSD INCLUDED
	15:50		B60225A (56-60)	3					3		V 045	MS/MSD INCLUDED
	15:15		B60224 (66-70)	1					1		9702042	UNFILTERED
	15:15		B60224A (66-70)	1					1		V 043	FILTERED
	14:45		B60223 (56-60)	1					1		9702040	UNFILTERED
	14:45		B60223A (56-60)	1					1		V 041	FILTERED
			Trip Blank	2							9702046	TRIP BLANK

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
Barbara Wilson	1/15/97	16:30	Jerry G. Jones	1/23/97	10:25
Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
J. G. Jones	1/23/97	10:25			
Relinquished by: (Signature)	Date	time	Received for Laboratory by: (Signature)	Date	time
			Tara A J	1/23/97	10:25

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or (N)
NOTES:

LABORATORY USE ONLY

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill # _____
2) Ambient or Chilled 4°C
3) Recieved in Good Condition (Y) or N
4) Properly Preserved (Y) or N
5) Samples returned to lab. ___ hours from Collection

COC Tape was:
1) Present on Outer Package Y or (N)
2) Unbroken on Outer Package Y or (N)
3) COC Record Present and Complete Upon Sample Rec't (Y) or N

ORIGINAL COPY

A 0033

H2M LABS, INC.

CLIENT: NDEC

SDG #: 123

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEVIED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
TAT 1/24/97 1 24 97 1/23/97	1804	SIGN	SIGN	All D, A	analysis	
1/27/97	1600	SIGN	SIGN	All A, D	Analysis	
1/29/97	1145	SIGN	SIGN	All A	T.S. Analysis	
1/29/97	1245	SIGN	SIGN	All A	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

P 0032

A 0021

H2M LABS, INC.

V. ANALYTICAL DATA PACKAGE

A. VOLATILES

[illegible], INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: ~~8:30~~ 11:45 (MFM) (29)

END TIME: 8:30 (30)

DATE: 1/29/97

ANALYST: MFM

LAB# 9702300	PAN/CRUCIBLE NJ		LAB# 9702303	PAN/CRUCIBLE NG	
%TS 97.3%	%TVS		%TS 96.4%	%TVS	
INITIAL WEIGHT 10.1461	DRY WEIGHT 9.9031	DRY WEIGHT	INITIAL WEIGHT 12.2328	DRY WEIGHT 11.8449	DRY WEIGHT
-TARE WEIGHT - 1.2980	-TARE WEIGHT - 1.2980	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3080	-TARE WEIGHT - 1.308	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.8481	=SOLID WEIGHT = 8.6051	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 10.9248	=SOLID WEIGHT = 10.5369	=VOLATILE WEIGHT =
LAB# 9702301	PAN/CRUCIBLE NI		LAB# 9702304	PAN/CRUCIBLE NF	
%TS 96.6%	%TVS		%TS 89.7%	%TVS	
INITIAL WEIGHT 11.2670	DRY WEIGHT 10.9244	DRY WEIGHT	INITIAL WEIGHT 10.1974	DRY WEIGHT 9.2850	DRY WEIGHT
-TARE WEIGHT - 1.3217	-TARE WEIGHT - 1.3217	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3127	-TARE WEIGHT - 1.3127	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.9453	=SOLID WEIGHT = 9.6027	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 8.8847	=SOLID WEIGHT = 7.9723	=VOLATILE WEIGHT =
LAB# 9702302	PAN/CRUCIBLE NH		LAB# 9702305	PAN/CRUCIBLE NA	
%TS 97.4%	%TVS		%TS 97.9%	%TVS	
INITIAL WEIGHT 10.6596	DRY WEIGHT 10.4125	DRY WEIGHT	INITIAL WEIGHT 12.0063	DRY WEIGHT 11.7790	DRY WEIGHT
-TARE WEIGHT - 1.3146	-TARE WEIGHT - 1.3146	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3215	-TARE WEIGHT - 1.3215	-IGNITED WEIGHT -
=SAMPLE WEIGHT A= 9.345	=SOLID WEIGHT = 9.0979	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 10.6848	=SOLID WEIGHT = 10.4575	=VOLATILE WEIGHT =

C023

P 0016

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: _____ DATE: 1/30/97

END TIME: _____ ANALYST: MFM

LAB# 9702306	PAN/CRUCIBLE NE		LAB# 9702309 DUP	PAN/CRUCIBLE NB	
%TS 98.3%	%TVS		%TS 96.4%	%TVS	
INITIAL WEIGHT 10.9650	DRY WEIGHT 10.8055	DRY WEIGHT	INITIAL WEIGHT 12.6461	DRY WEIGHT 12.2380	DRY WEIGHT
-TARE WEIGHT - 1.3158	-TARE WEIGHT - 1.3158	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3123	-TARE WEIGHT - 1.3123	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.6492	=SOLID WEIGHT = 9.4897	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 11.3338	=SOLID WEIGHT = 10.9257	=VOLATILE WEIGHT =
LAB# 9702307	PAN/CRUCIBLE ND		LAB# 9702305 DUP	PAN/CRUCIBLE NZ	
%TS 96.9%	%TVS		%TS 97.8%	%TVS	
INITIAL WEIGHT 10.3530	DRY WEIGHT 10.0718	DRY WEIGHT	INITIAL WEIGHT 12.4957	DRY WEIGHT 12.2543	DRY WEIGHT
-TARE WEIGHT - 1.3093	-TARE WEIGHT - 1.3093	-IGNITED WEIGHT -	-TARE WEIGHT - 1.3163	-TARE WEIGHT - 1.3163	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.0437	=SOLID WEIGHT = 8.7623	=VOLATILE WEIGHT =	=SAMPLE WEIGHT = 11.1794	=SOLID WEIGHT = 10.938	=VOLATILE WEIGHT =
LAB# 9702308	PAN/CRUCIBLE NC		LAB#	PAN/CRUCIBLE MFM 1/30/97	
%TS 96.7%	%TVS		%TS	%TVS	
INITIAL WEIGHT 10.5730	DRY WEIGHT 10.2692	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 1.3194	-TARE WEIGHT - 1.3194	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 9.2536	=SOLID WEIGHT = 8.9498	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

A 0024

P 0017

H2M LABS, INC.

VOLATILE ORGANICS

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H2M LABS, INC.

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D. METHOD BLANK FORM
E. GC/MS TUNING FORM
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G. INSTRUMENT DETECTION LIMITS

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK01	107	96	98	0
02	B60231	108	98	103	0
03	B60232	105	99	98	0
04	B60233	103	98	98	0
05	B60234	106	98	97	0

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(70-121)
SMC2	(TOL)	=	Toluene-d8	(84-138)
SMC3	(BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK01	104	102	101	0
02	B60226	106	101	104	0
03	B60227	104	100	101	0
04	B60228	106	104	101	0
05	B60229	106	104	107	0
06	B60230	108	101	104	0
07	VBLK02	106	97	100	0
08	B60227DL	118 *	98	109	1

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(76-114)
SMC2	(TOL)	=	Toluene-d8	(88-110)
SMC3	(BFB)	=	Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05485.D Lab Sample ID: VBLK27

Date Analyzed: 01/27/97 Time Analyzed: 16:00

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60231	9702300	P05489.D	18:17
02	B60232	9702301	P05490.D	18:47
03	B60233	9702302	P05491.D	19:18
04	B60234	9702303	P05492.D	19:49

COMMENTS:

V 000

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05499.D Lab Sample ID: VBLK28

Date Analyzed: 01/28/97 Time Analyzed: 13:02

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60226	9702290	P05509.D	18:19
02	B60227	9702291	P05510.D	18:49
03	B60228	9702292	P05511.D	19:19
04	B60229	9702293	P05512.D	19:49
05	B60230	9702294	P05513.D	20:18

COMMENTS:

V 0004

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK02

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05520.D Lab Sample ID: VBLK29

Date Analyzed: 01/29/97 Time Analyzed: 14:36

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60227DL	9702291DL 1:5	P05533.D	20:43

COMMENTS:

V 0007

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05319.D BFB Injection Date: 12/31/96

Instrument ID: H5970-3 BFB Injection Time: 09:05

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	5.5 (8.0)1
176	95.0 - 101.0% of mass 174	68.0 (98.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	P05325.D	12/31/96	13:23
02	VSTD020	VSTD020	P05326.D	12/31/96	13:54
03	VSTD050	VSTD050	P05327.D	12/31/96	14:25
04	VSTD100	VSTD100	P05328.D	12/31/96	14:56
05	VSTD200	VSTD200	P05329.D	12/31/96	15:27

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Lab File ID: P05319.D BFB Injection Date: 12/31/96

Instrument ID: H5970-3 BFB Injection Time: 09:05

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	5.5 (8.0)1
176	95.0 - 101.0% of mass 174	68.0 (98.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	VSTD020	P05321.D	12/31/96	11:19
02	VSTD050	VSTD050	P05322.D	12/31/96	11:50
03	VSTD100	VSTD100	P05323.D	12/31/96	12:21
04	VSTD200	VSTD200	P05324.D	12/31/96	12:52
05	VSTD010	VSTD010	P05330.D	12/31/96	16:42

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05483.D BFB Injection Date: 01/27/97

Instrument ID: H5970-3 BFB Injection Time: 12:46

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.4
75	30.0 - 60.0% of mass 95	57.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.1 (7.3)1
176	95.0 - 101.0% of mass 174	70.0 (100.4)1
177	5.0 - 9.0% of mass 176	5.0 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05484.D	01/27/97	15:21
02	VBLK01	VBLK27	P05485.D	01/27/97	16:00
03	B60231	9702300	P05489.D	01/27/97	18:17
04	B60232	9702301	P05490.D	01/27/97	18:47
05	B60233	9702302	P05491.D	01/27/97	19:18
06	B60234	9702303	P05492.D	01/27/97	19:49

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05495.D BFB Injection Date: 01/28/97

Instrument ID: H5970-3 BFB Injection Time: 09:31

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.2
75	30.0 - 60.0% of mass 95	56.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	5.0 (7.5)1
176	95.0 - 101.0% of mass 174	67.0 (100.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05498.D	01/28/97	12:21
02	VBLK01	VBLK28	P05499.D	01/28/97	13:02
03	B60226	9702290	P05509.D	01/28/97	18:19
04	B60227	9702291	P05510.D	01/28/97	18:49
05	B60228	9702292	P05511.D	01/28/97	19:19
06	B60229	9702293	P05512.D	01/28/97	19:49
07	B60230	9702294	P05513.D	01/28/97	20:18

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID: P05518.D BFB Injection Date: 01/29/97

Instrument ID: H5970-3 BFB Injection Time: 13:06

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	54.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.6 (8.0)1
176	95.0 - 101.0% of mass 174	70.8 (100.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05519.D	01/29/97	13:49
02	VBLK02	VBLK29	P05520.D	01/29/97	14:36
03	B60227DL	9702291DL 1:5	P05533.D	01/29/97	20:43

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Lab File ID (Standard): P05484.D Date Analyzed: 01/27/97

Instrument ID: H5970-3 Time Analyzed: 15:21

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	98034	11.26	366979	12.66	293533	17.95
	UPPER LIMIT	196068	10.76	733958	12.16	587066	17.45
	LOWER LIMIT	49017	11.76	183490	13.16	146767	18.45
	EPA SAMPLE NO.						
01	VBLK01	101911	11.26	382720	12.66	316692	17.95
02	B60231	110617	11.25	394981	12.66	325509	17.95
03	B60232	95111	11.23	362895	12.65	301197	17.94
04	B60233	92425	11.25	357282	12.65	293628	17.94
05	B60234	90712	11.24	352351	12.65	295342	17.94

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

V 0013

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID (Standard): P05498.D Date Analyzed: 01/28/97

Instrument ID: H5970-3 Time Analyzed: 12:21

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	78170	10.95	306444	12.36	243567	17.63
	UPPER LIMIT	156340	10.45	612888	11.86	487134	17.13
	LOWER LIMIT	39085	11.45	153222	12.86	121784	18.13
	EPA SAMPLE NO.						
01	VBLK01	81220	10.97	314671	12.38	248528	17.64
02	B60226	71042	11.00	270954	12.41	216066	17.68
03	B60227	69165	11.00	261175	12.41	210877	17.68
04	B60228	68527	11.01	260723	12.42	202915	17.68
05	B60229	69756	11.01	263841	12.43	208940	17.70
06	B60230	71143	11.01	285137	12.42	223068	17.69

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Lab File ID (Standard): P05519.D Date Analyzed: 01/29/97

Instrument ID: H5970-3 Time Analyzed: 13:49

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CBZ) AREA	#	RT	#
	12 HOUR STD	84715		11.05		357408		12.47		281348		17.73	
	UPPER LIMIT	169430		10.55		714816		11.97		562696		17.23	
	LOWER LIMIT	42358		11.55		178704		12.97		140674		18.23	
	EPA SAMPLE NO.												
01	VBLK02	80883		11.05		321665		12.46		254883		17.72	
02	B60227DL	72304		11.06		269301		12.46		217389		17.72	

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

VOLATILES INSTRUMENT DETECTION LIMIT STUDY

SPIKE AMOUNT: 5 ppb INSTRUMENT ID: H5970-3 DATE ANALYZED: 01/21/97

COMPOUND	P05432.D	P05433.D	P05434.D	P05435.D	P05436.D	P05437.D	P05438.D	S	IDL (ng)	CRDL
Chloromethane	5.25	5.57	4.82	5.14	4.78	5.34	5.99	0.42	7	50 ng
Vinyl Chloride	5.29	5.43	4.62	4.97	4.79	5.14	5.89	0.43	7	50 ng
Bromomethane	5.24	5.94	5.05	5.55	5.09	5.63	6.27	0.45	7	50 ng
Chloroethane	5.05	5.60	4.44	4.93	4.57	4.81	5.38	0.42	7	50 ng
1,1-Dichloroethene	4.81	5.14	4.16	4.50	4.27	4.44	5.31	0.44	7	50 ng
Carbon Disulfide	4.87	5.04	4.31	4.47	4.36	4.58	5.39	0.40	6	50 ng
Acetone	10.99	8.80	7.45	7.61	7.90	8.10	5.52	1.11	17	50 ng
Methylene Chloride	5.95	6.43	5.74	5.82	5.69	6.10	6.88	0.43	7	50 ng
trans-1,2-Dichloroethene	4.80	4.83	4.18	4.30	4.35	4.58	5.45	0.43	7	50 ng
cis-,1,2-Dichloroethene	4.72	5.04	4.39	4.53	4.60	4.79	5.63	0.42	7	50 ng
,2-Dichloroethene (total)	9.67	10.91	9.52	9.94	9.76	10.32	11.89	0.85	13	50 ng
1,1-Dichloroethane	4.87	5.06	4.69	4.87	4.47	4.83	5.61	0.36	6	50 ng
Chloroform	4.66	5.01	4.47	4.77	4.56	4.84	5.75	0.43	7	50 ng
,2-Dichloroethane	4.92	5.36	5.09	5.23	5.39	5.43	6.38	0.47	7	50 ng
2-Butanone	6.66	7.86	7.18	6.97	6.98	6.72	5.56	0.69	11	50 ng
,1,1-Trichloroethane	4.71	5.38	4.85	5.14	5.07	4.97	6.36	0.55	9	50 ng
Carbon Tetrachloride	4.57	5.24	4.67	5.00	4.96	4.64	6.26	0.58	9	50 ng
Trichloroethene	4.74	5.23	4.61	5.03	5.53	4.89	5.94	0.47	7	50 ng
Benzene	5.28	5.42	4.67	5.00	4.90	5.04	6.13	0.48	7	50 ng
,2-Dichloropropane	4.93	5.52	4.99	5.45	5.16	5.46	6.23	0.44	7	50 ng
Bromodichloromethane	4.61	5.58	5.04	5.23	5.22	5.45	6.46	0.57	9	50 ng
cis-1,3-Dichloropropene	4.56	5.13	4.78	4.67	4.86	4.95	5.87	0.43	7	50 ng
ans-1,3-Dichloropropene	4.25	5.21	4.76	4.94	4.92	5.08	6.11	0.56	9	50 ng
1,1,2-Trichloroethane	4.65	5.62	5.45	5.60	5.39	5.83	6.87	0.66	10	50 ng
Dibromochloromethane	4.28	5.30	4.96	5.24	5.31	5.50	6.54	0.68	11	50 ng
romoform	4.16	5.08	5.01	5.11	5.18	5.36	6.14	0.58	9	50 ng
4-Methyl-2-Pentanone	6.48	6.95	6.81	5.96	6.70	6.52	7.41	0.45	7	50 ng
Toluene	4.98	5.13	4.88	4.74	4.81	4.59	5.79	0.39	6	50 ng
etrachloroethene	4.62	4.91	4.38	4.42	4.40	3.89	5.70	0.57	9	50 ng
2-Hexanone	5.71	6.20	5.85	6.59	5.88	5.27	5.50	0.44	7	50 ng
Chlorobenzene	4.80	5.31	4.74	4.94	4.94	4.76	5.99	0.45	7	50 ng
thylbenzene	4.71	5.22	5.04	4.84	4.67	4.26	5.69	0.45	7	50 ng
ylene (total)	4.79	5.12	4.92	4.69	4.53	4.22	5.82	0.50	8	50 ng
Styrene	4.78	5.25	4.68	4.79	4.69	4.37	5.76	0.46	7	50 ng
m/p-Xylene	9.88	9.97	8.94	9.15	8.88	8.47	11.00	0.86	14	50 ng
,1,2,2-Tetrachloroethane	4.96	5.74	5.71	5.47	4.29	5.61	6.51	0.70	11	50 ng

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

A. REPORTS
B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330\ U)}{D} \times df \quad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

Monitoring well

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
B60226

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

NC-2D

Matrix: (soil/water) WATER Lab Sample ID: 9702290

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05509.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	7	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	29	
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	81	
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	160	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60226

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702290

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05509.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 1

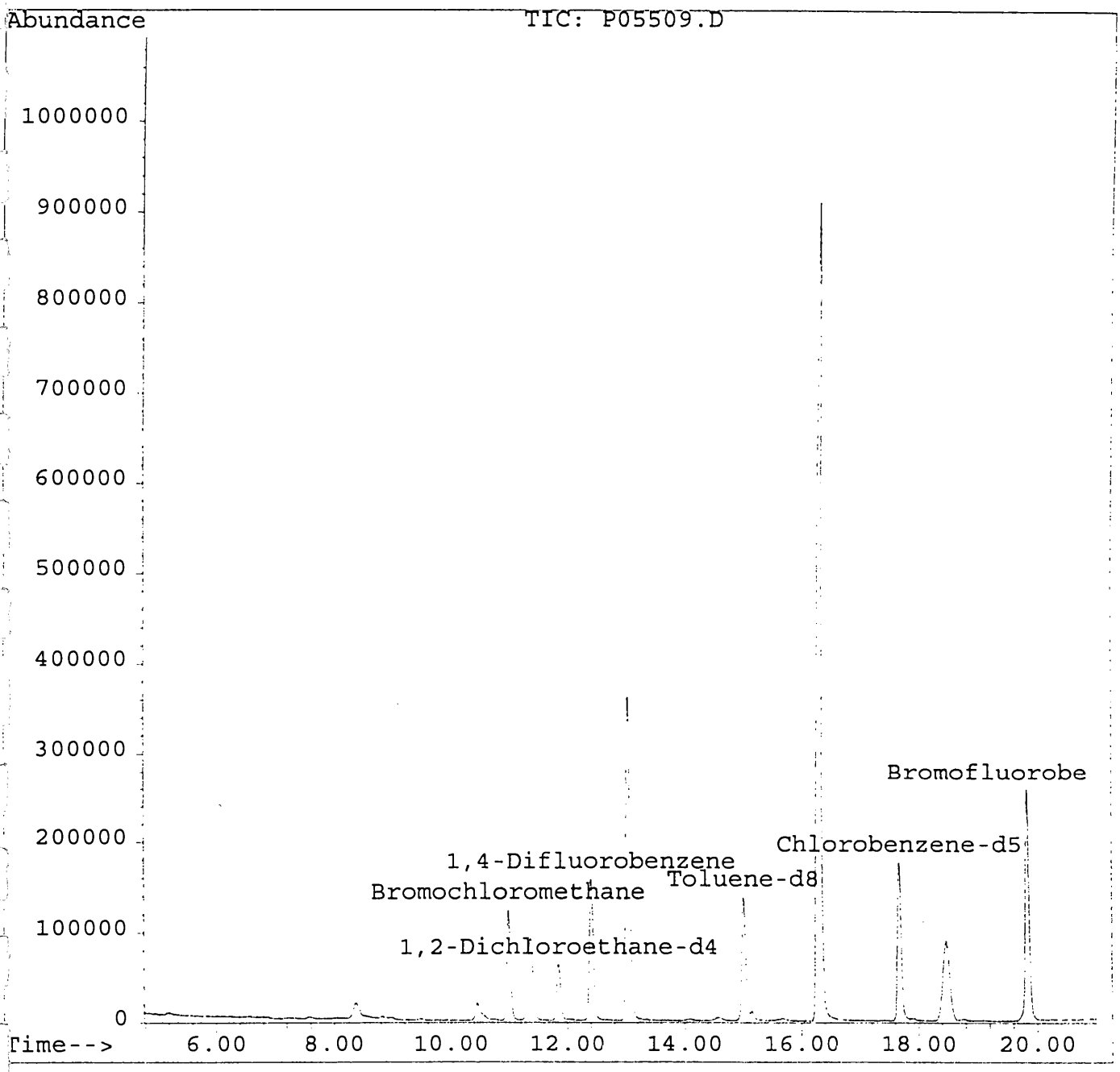
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.46	21	JN

Quantitation Report

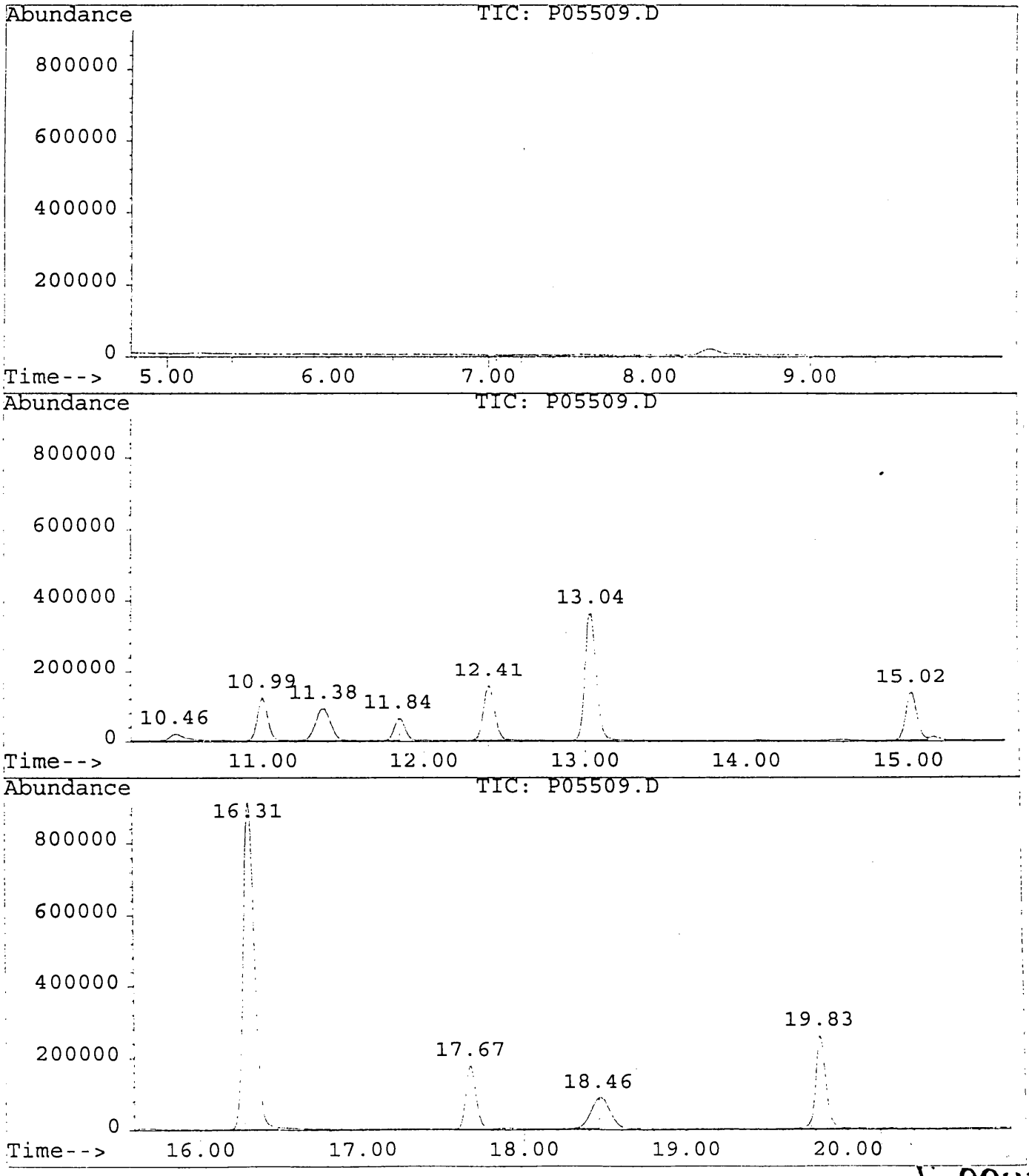
Data File : C:\HPCHEM\1\DATA\P05509.D
Acq On : 28 Jan 97 6:19 pm
Sample : 9702290
Misc : B60226 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:37 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



File : C:\HPCHEM\1\DATA\P05509.D
Operator : GLENN
Acquired : 28 Jan 97 18:19 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702290
Misc Info : B60226 H5970-3 1/27/97 5.0ML
Vial Number: 14



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05509.D
Acq On : 28 Jan 97 18:19
Sample : 9702290
Misc : B60226 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:37 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.00	128	71042	50.00	UG/L	0.05
21) 1,4-Difluorobenzene	12.41	114	270954	50.00	UG/L	0.05
33) Chlorobenzene-d5	17.68	117	216066	50.00	UG/L	0.05
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.85	65	113928m	52.75	UG/L	105.49%
34) Toluene-d8	15.02	98	218388	50.50	UG/L	100.99%
43) Bromofluorobenzene	19.83	95	216186	51.99	UG/L	103.99%
Target Compounds						Qvalue
14) cis-,1,2-Dichloroethene	10.45	96	15450	5.58	UG/L	89
15) 1,2-Dichloroethene (total)	10.45	96	19919m	6.92	UG/L	86
22) 1,1,1-Trichloroethane	11.38	97	176620	29.16	UG/L	93
24) Trichloroethene	13.03	130	271985	80.98	UG/L	95
36) Toluene	15.16	91	15162	2.71	UG/L	92
37) Tetrachloroethene	16.31	164	522865	159.38	UG/L	98

UKB 2/11/97

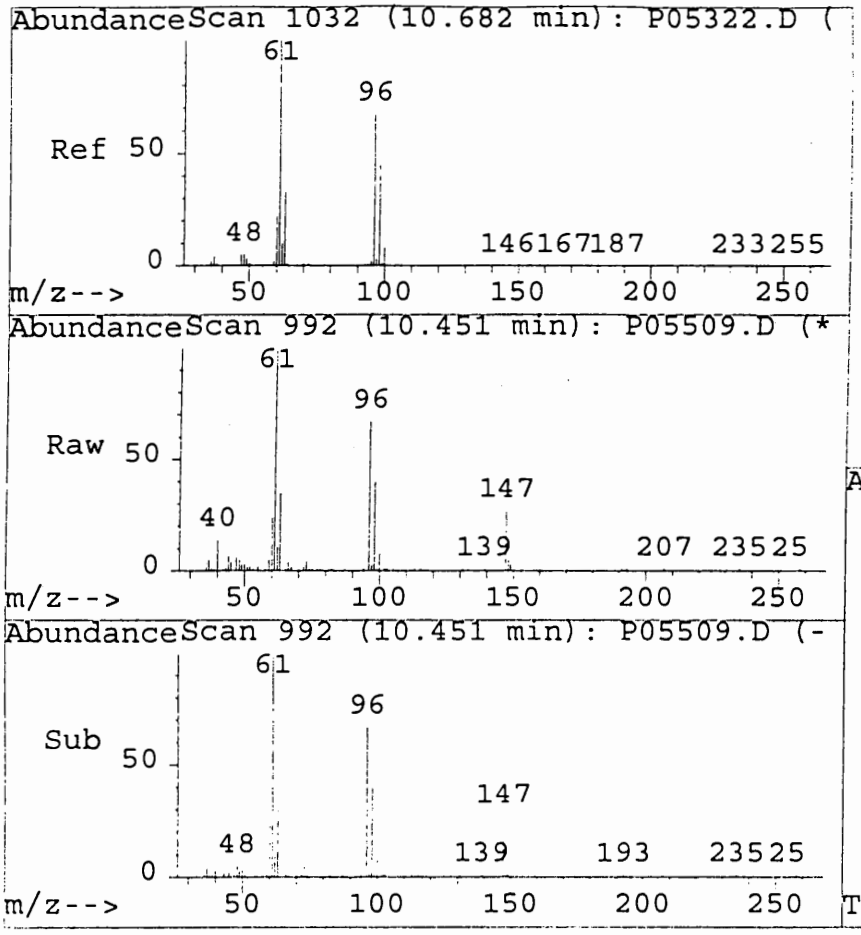
(#) = qualifier out of range (m) = manual integration

V 0021

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 18:19
Data File: C:\HPCHEM\1\DATA\P05509.D
Name: 9702290
Misc: B60226 H5970-3 1/27/97 5.0ML
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

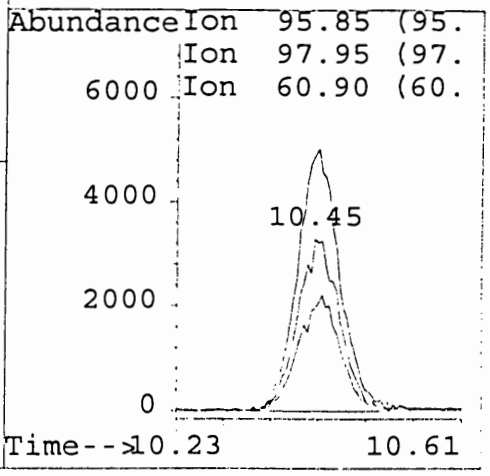
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotetrasiloxane,	18.46	20.8	UG/L	326168	ISTD03	17.68	782814	50.0

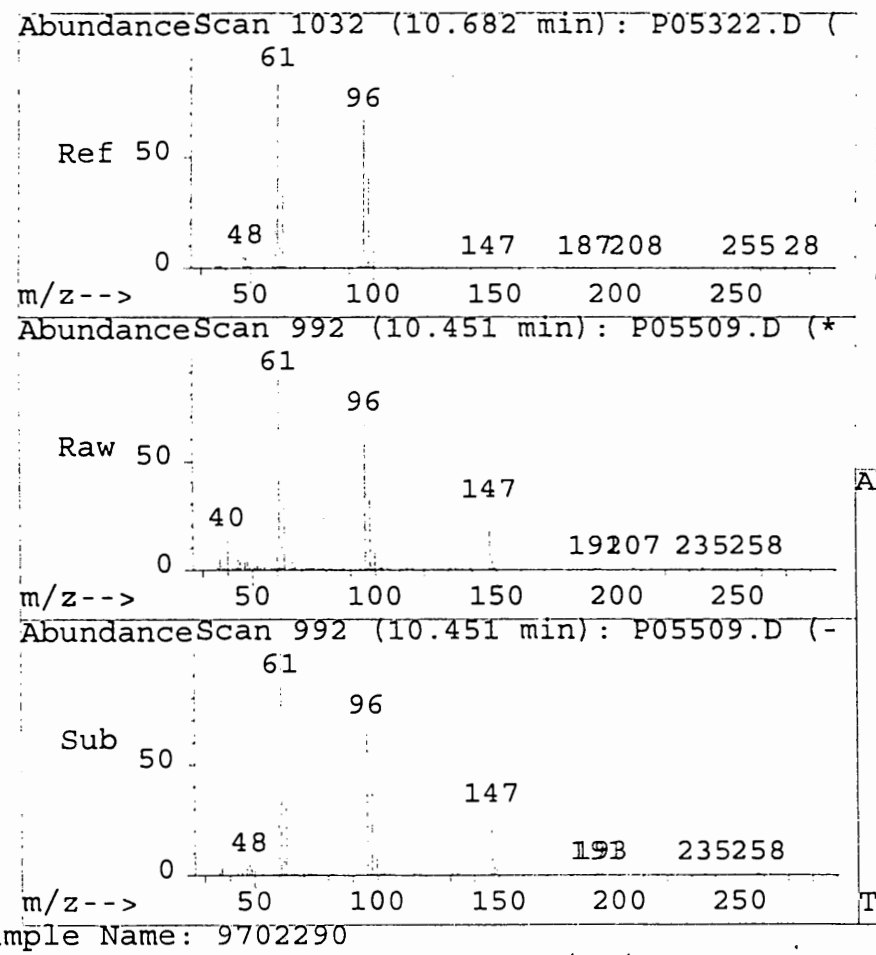


#14
cis-,1,2-Dichloroethene
Concen: 5.58 UG/L
RT: 10.45 min Scan# 992
Delta R.T. 0.04 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

Tgt Ion:95.85 Resp: 15450

Ion	Ratio	Lower	Upper
96	100		
98	66.8	53.1	79.6
61	150.9	105.0	157.5
0	0.0	0.0	0.0

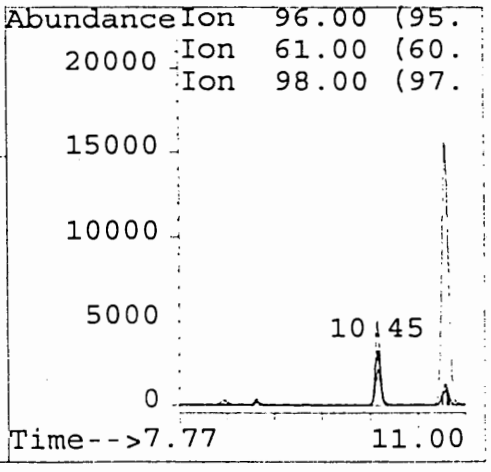




#15
1,2-Dichloroethene (total)
Concen: 6.92 UG/L m
RT: 10.45 min Scan# 992
Delta R.T. 1.65 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

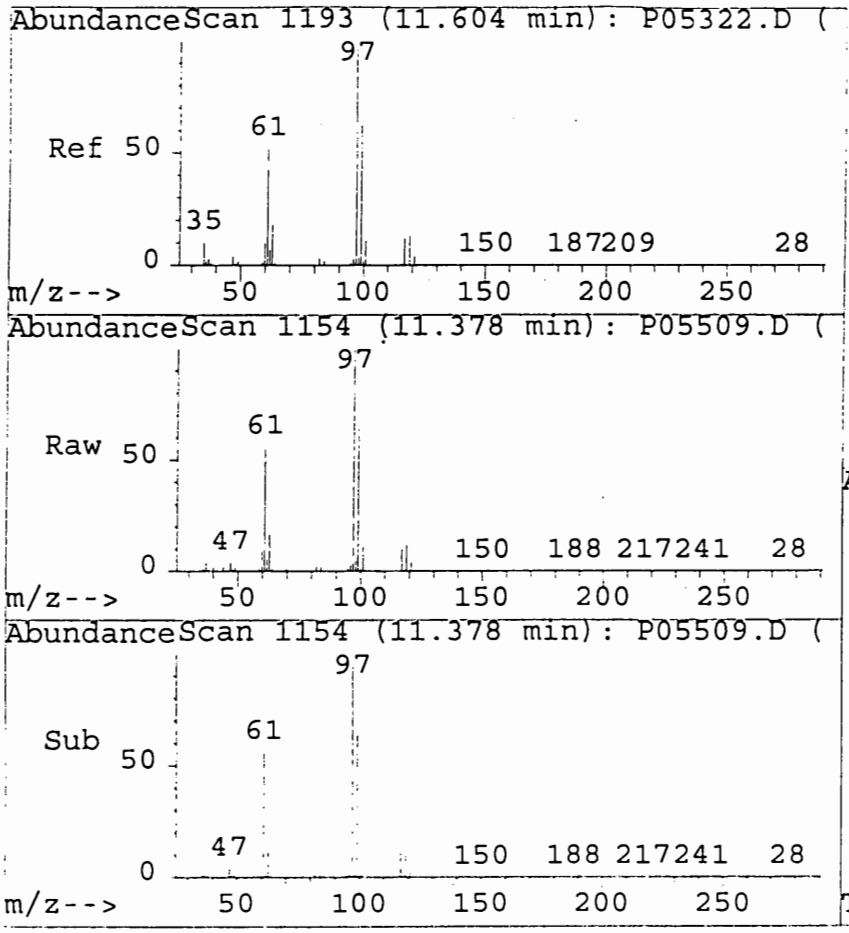
Tgt Ion:96 Resp: 19919

Ion	Ratio	Lower	Upper
96	100		
61	148.6	111.6	151.6
98	59.7	44.6	84.6
0	0.0	0.0	0.0



Sample Name: 9702290
Misc. Info: B60226 H5970-3 1/27/97 5.0ML
P05509.D CLPW.M Tue Feb 11 08:57:03 1997 MASSPEC1 Page 3

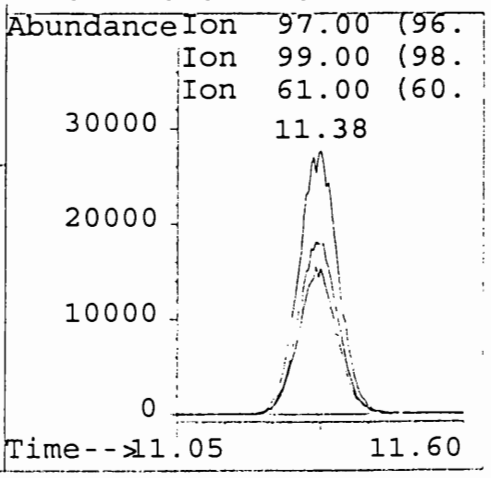
V 0026

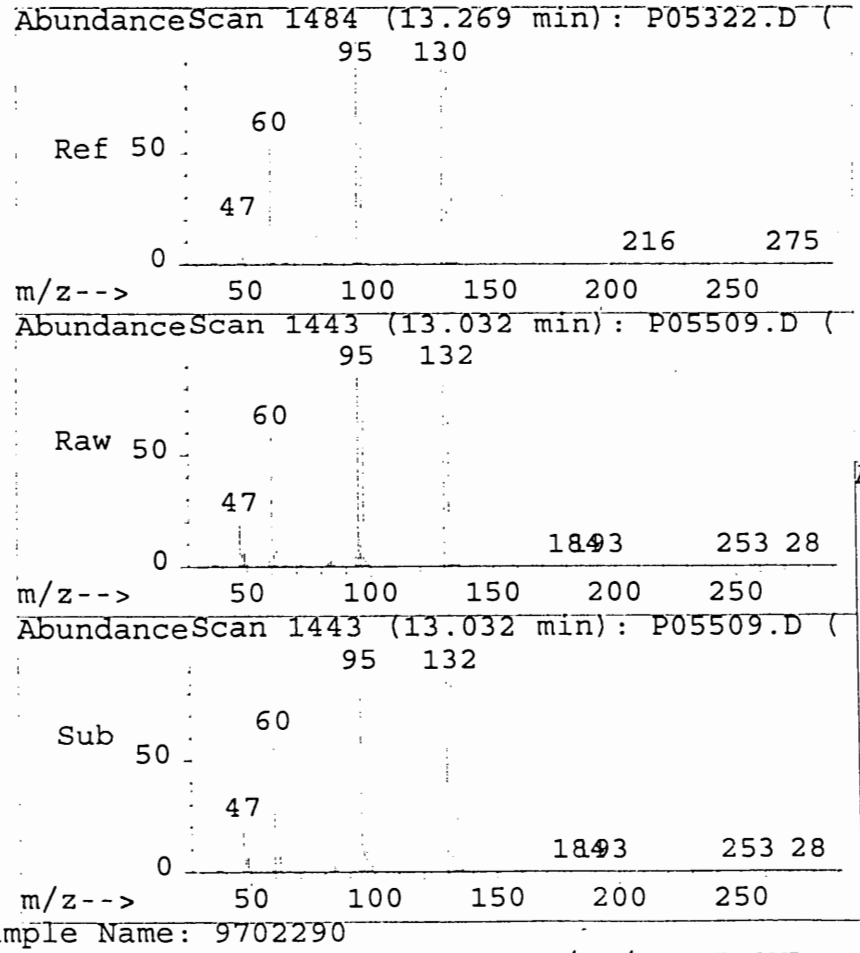


#22
1,1,1-Trichloroethane
Concen: 29.16 UG/L
RT: 11.38 min Scan# 1154
Delta R.T. 0.05 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

Tgt Ion:97 Resp: 176620

Ion	Ratio	Lower	Upper
97	100		
99	64.5	46.6	86.6
61	55.5	27.5	67.5
0	0.0	0.0	0.0

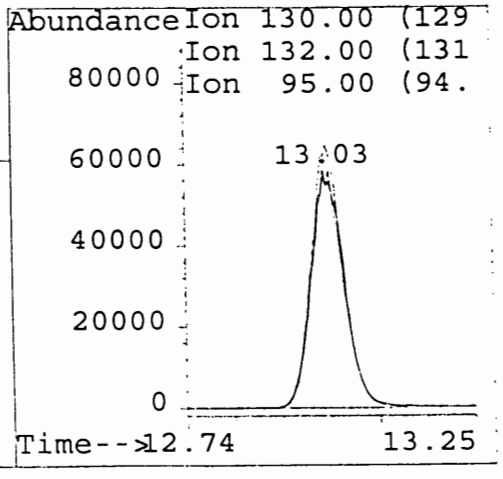




#24
Trichloroethene
Concen: 80.98 UG/L
RT: 13.03 min Scan# 1443
Delta R.T. 0.05 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

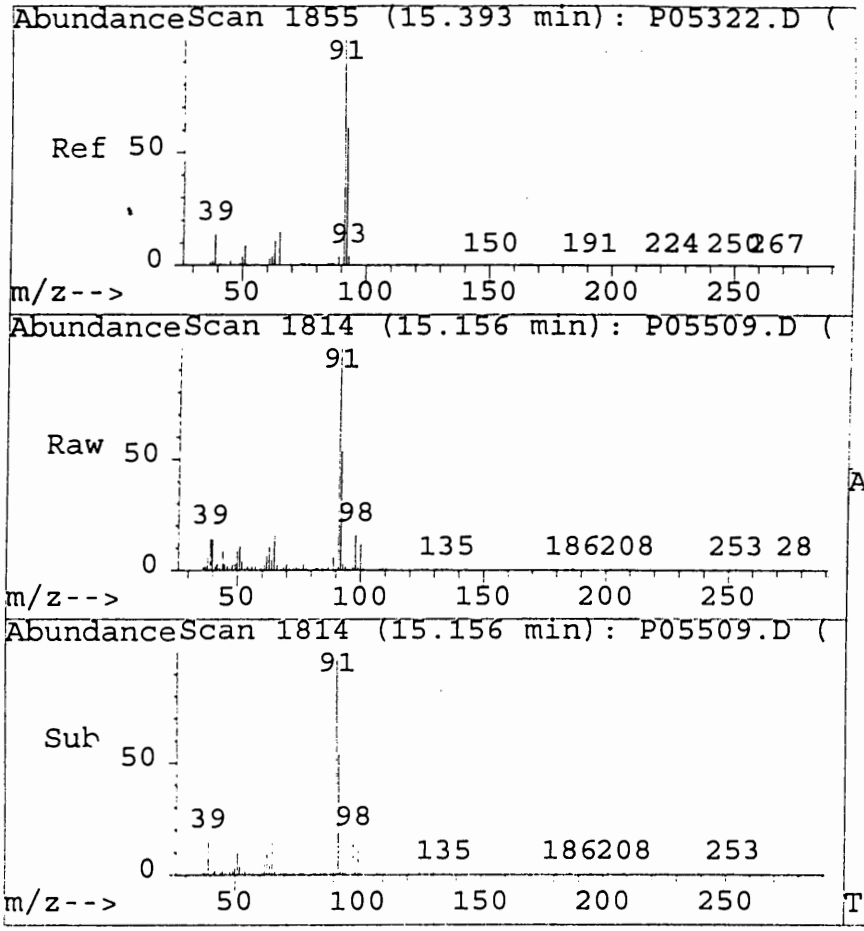
Tgt Ion:130 Resp: 271985

Ion	Ratio	Lower	Upper
130	100		
132	102.9	82.0	122.0
95	108.6	80.0	120.0
0	0.0	0.0	0.0



Sample Name: 9702290
Misc. Info: B60226 H5970-3 1/27/97 5.0ML
P05509.D CLPW.M Tue Feb 11 08:57:06 1997 MASSPEC1

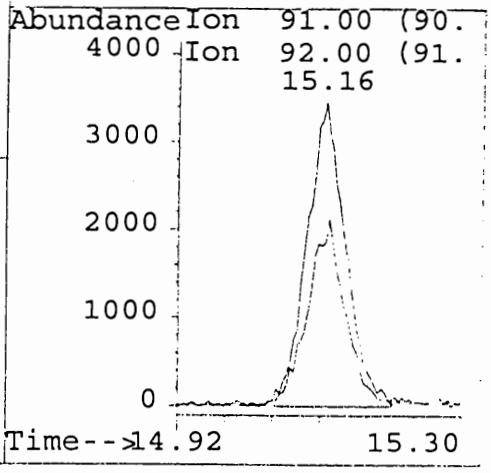
00027

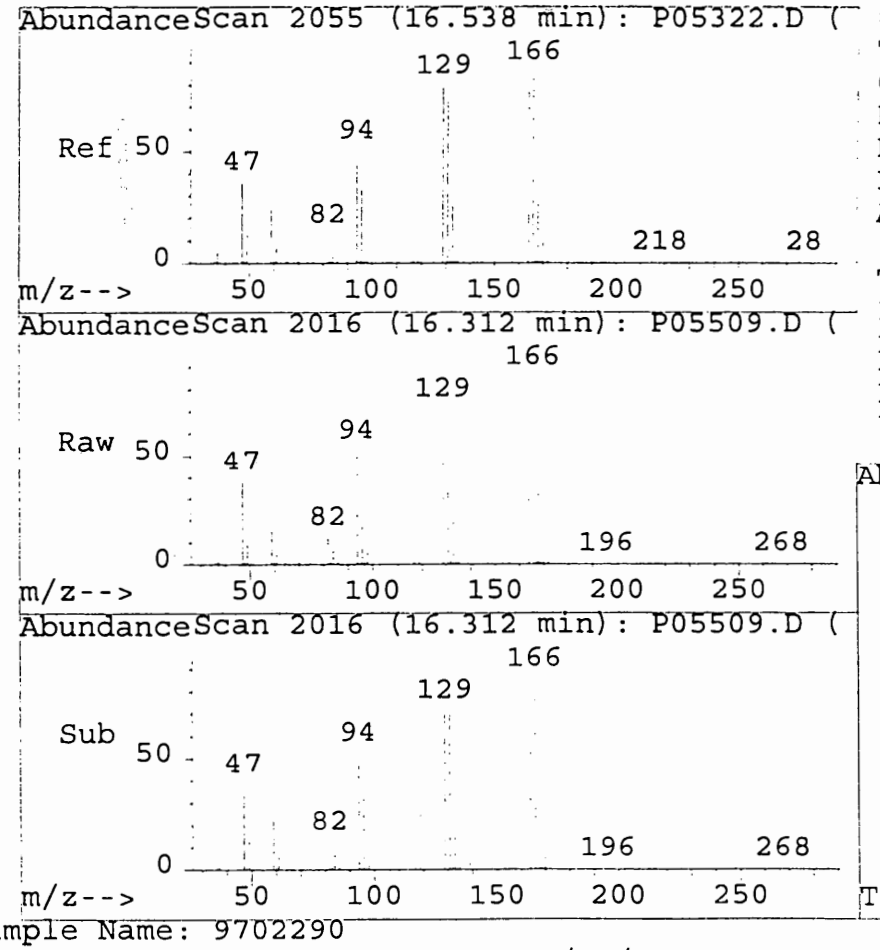


#36
Toluene
Concen: 2.71 UG/L
RT: 15.16 min Scan# 1814
Delta R.T. 0.06 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

Tgt Ion:91 Resp: 15162

Ion	Ratio	Lower	Upper
91	100		
92	53.9	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

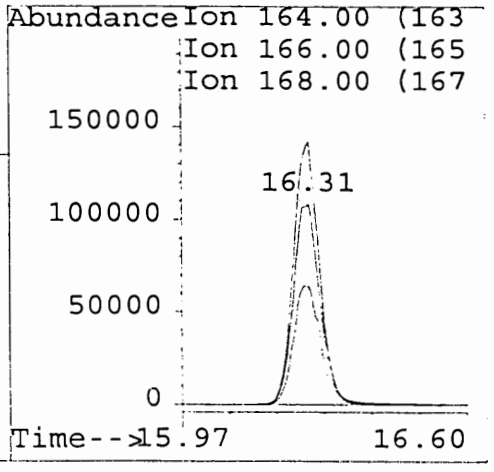




#37
Tetrachloroethene
Concen: 159.38 UG/L
RT: 16.31 min Scan# 2016
Delta R.T. 0.05 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

Tgt Ion:164 Resp: 522865

Ion	Ratio	Lower	Upper
164	100		
166	131.1	109.5	149.5
168	59.3	42.4	82.4
0	0.0	0.0	0.0



Sample Name: 9702290
Misc. Info: B60226 H5970-3 1/27/97 5.0ML
P05509.D CLPW.M Tue Feb 11 08:57:09 1997 MASSPEC1 Page 5

Library Search Compound Report

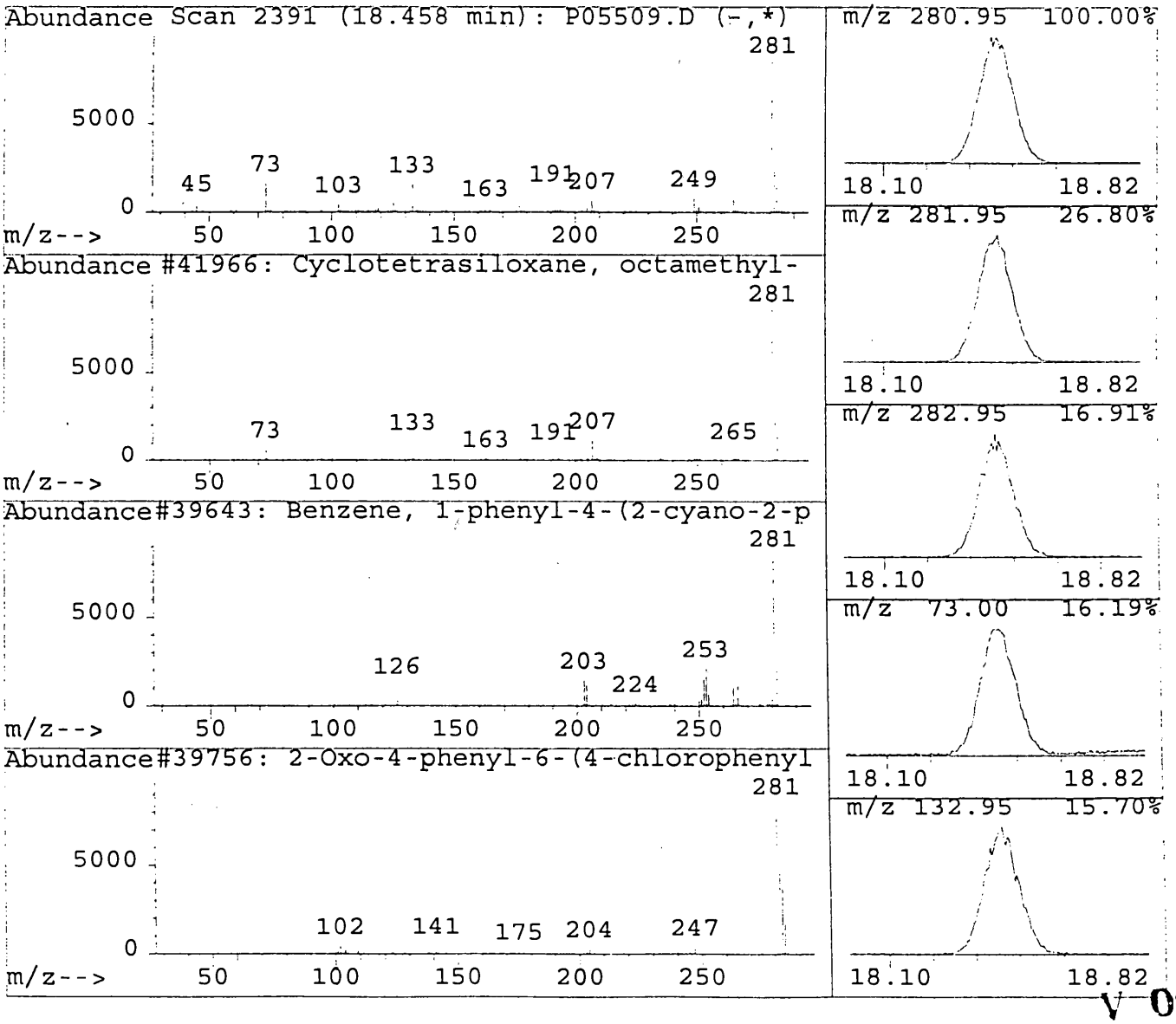
Data File : C:\HPCHEM\1\DATA\P05509.D
Acq On : 28 Jan 97 18:19
Sample : 9702290
Misc : B60226 H5970-3 1/27/97 5.0ML

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.46	20.83 UG/L	326168	Chlorobenzene-d5	17.68

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	74
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	12
4	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	9
5	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	7



V 0029

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60227

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702291

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05510.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Monitoring well

NC-2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	24	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	100	
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	250	E
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	470	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60227

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702291

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05510.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 2

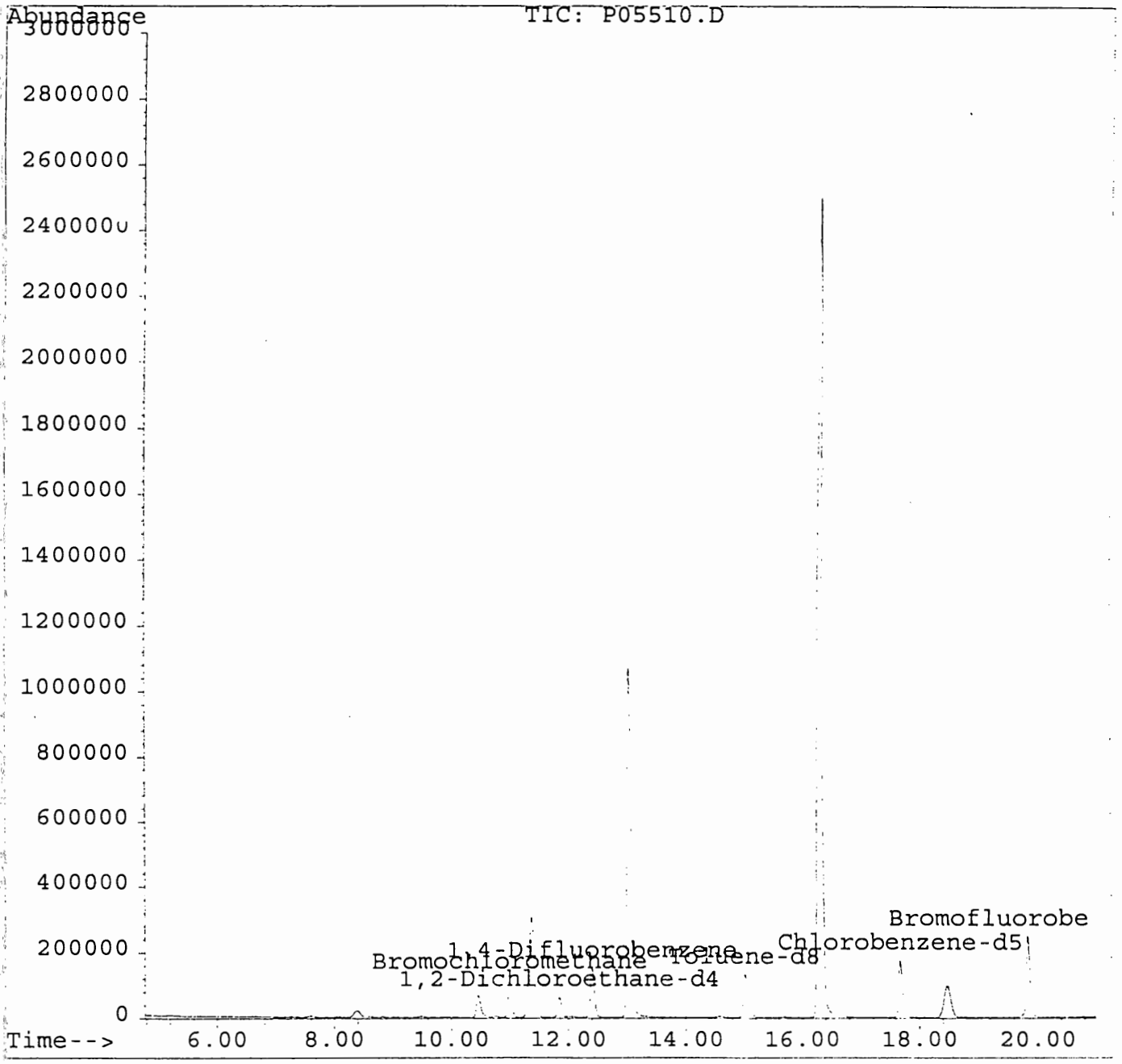
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	14	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	30	JN

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 6:49 pm
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:39 1997

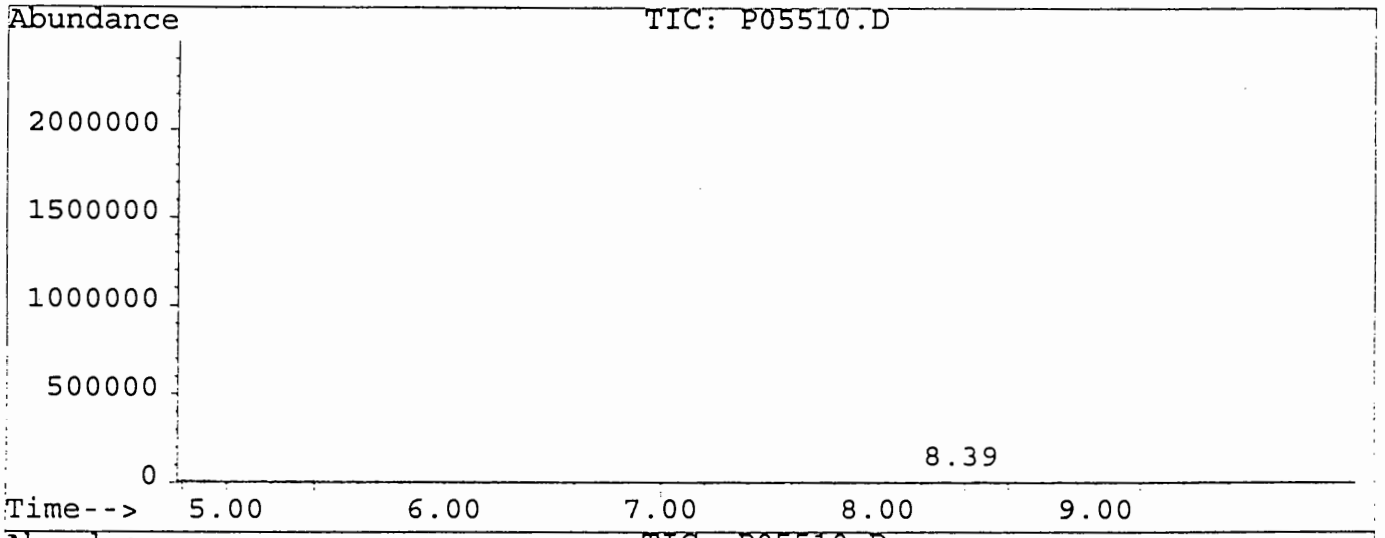
Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

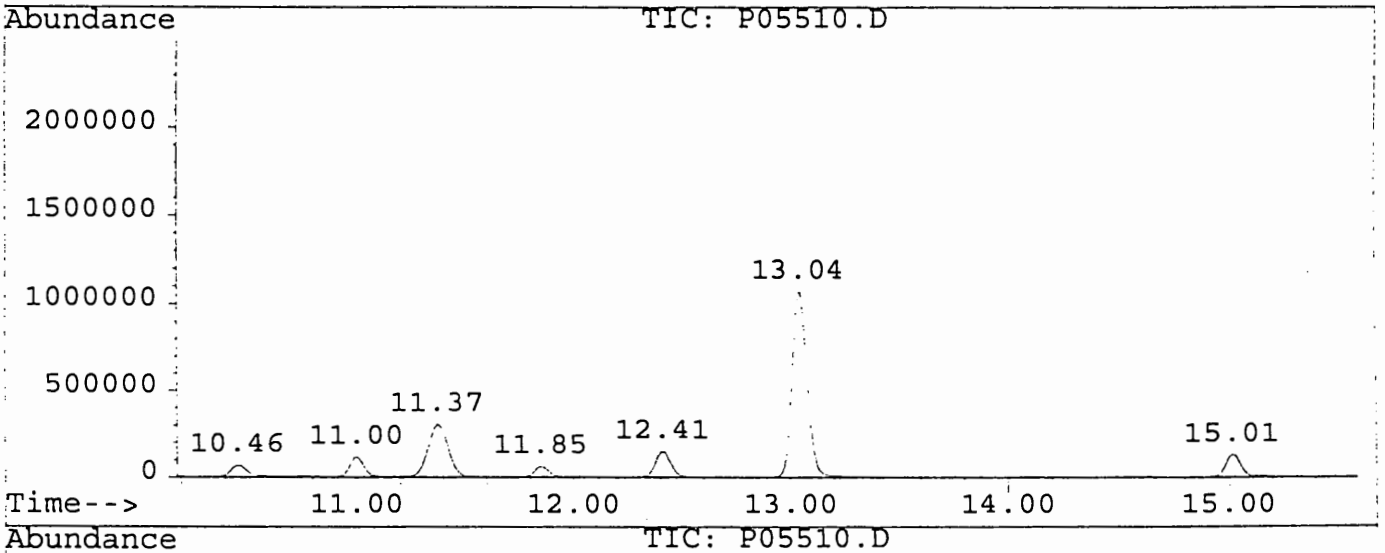
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration

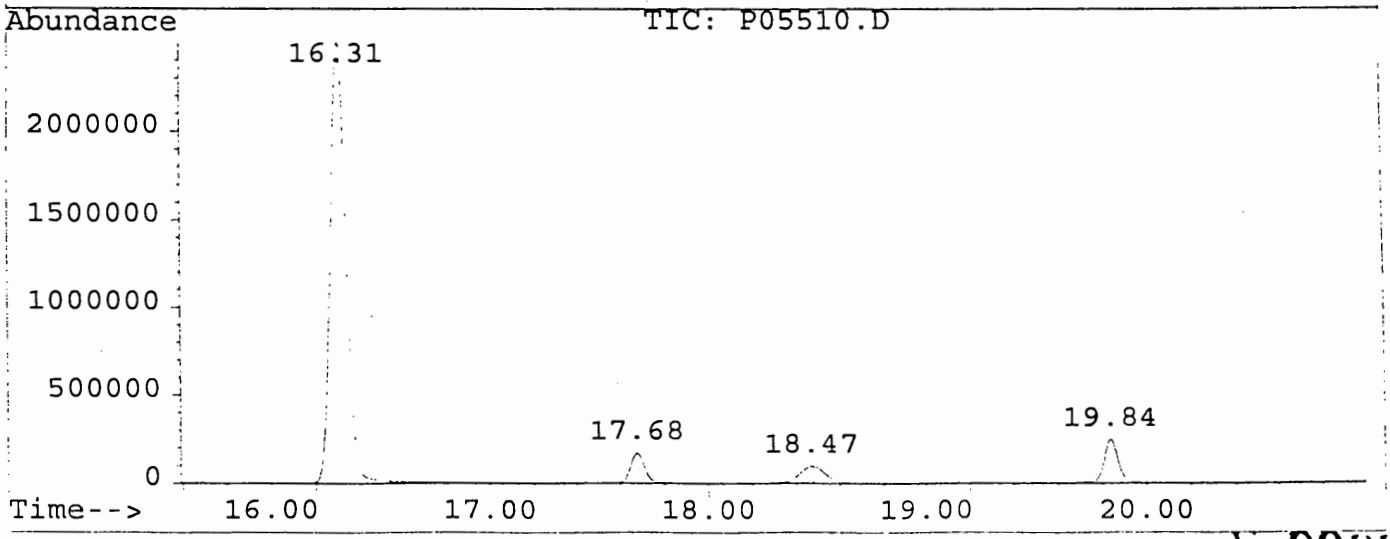


V 0032

File : C:\HPCHEM\1\DATA\P05510.D
Operator : GLENN
Acquired : 28 Jan 97 18:49 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702291
Misc Info : B60227 H5970-3 1/27/97 5.0ML
Vial Number: 15







Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 18:49
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:39 1997

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.00	128	69165	50.00	UG/L	0.05
21) 1,4-Difluorobenzene	12.41	114	261175	50.00	UG/L	0.05
33) Chlorobenzene-d5	17.68	117	210877	50.00	UG/L	0.05
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.85	65	109629	52.13	UG/L	104.27%
34) Toluene-d8	15.02	98	211862	50.19	UG/L	100.39%
43) Bromofluorobenzene	19.84	95	205785	50.71	UG/L	101.42%
Target Compounds						Qvalue
14) cis-,1,2-Dichloroethene	10.47	96	61693	22.88	UG/L	88
15) 1,2-Dichloroethene (total)	10.47	96	66366m	23.67	UG/L	92
16) 1,1-Dichloroethane	9.49	63	8135	1.62	UG/L	99
22) 1,1,1-Trichloroethane	11.37	97	594491	101.81	UG/L	95
24) Trichloroethene	13.03	130	807549	249.44	UG/L	97
36) Toluene	15.15	91	10805	1.98	UG/L	98
37) Tetrachloroethene	16.31	164	1501877	469.07	UG/L	98

GKB 2/11/97

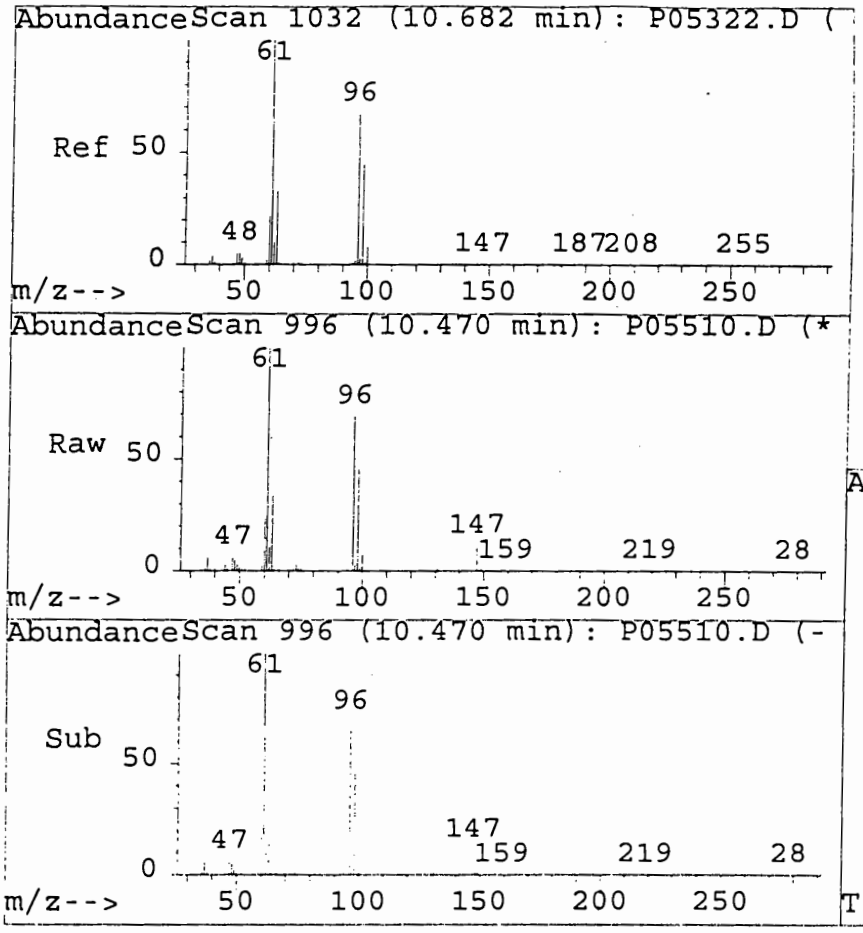
V-0031

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 18:49
Data File: C:\HPCHEM\1\DATA\P05510.D
Name: 9702291
Misc: B60227 H5970-3 1/27/97 5.0ML
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

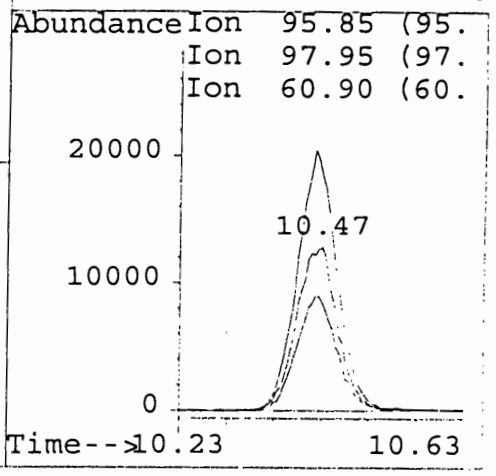
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Silanol, trimethyl-	8.39	13.6	UG/L	142136	ISTD01	11.00	523934	50.0
Cyclotetrasiloxane,	18.47	29.7	UG/L	450671	ISTD03	17.68	758549	50.0

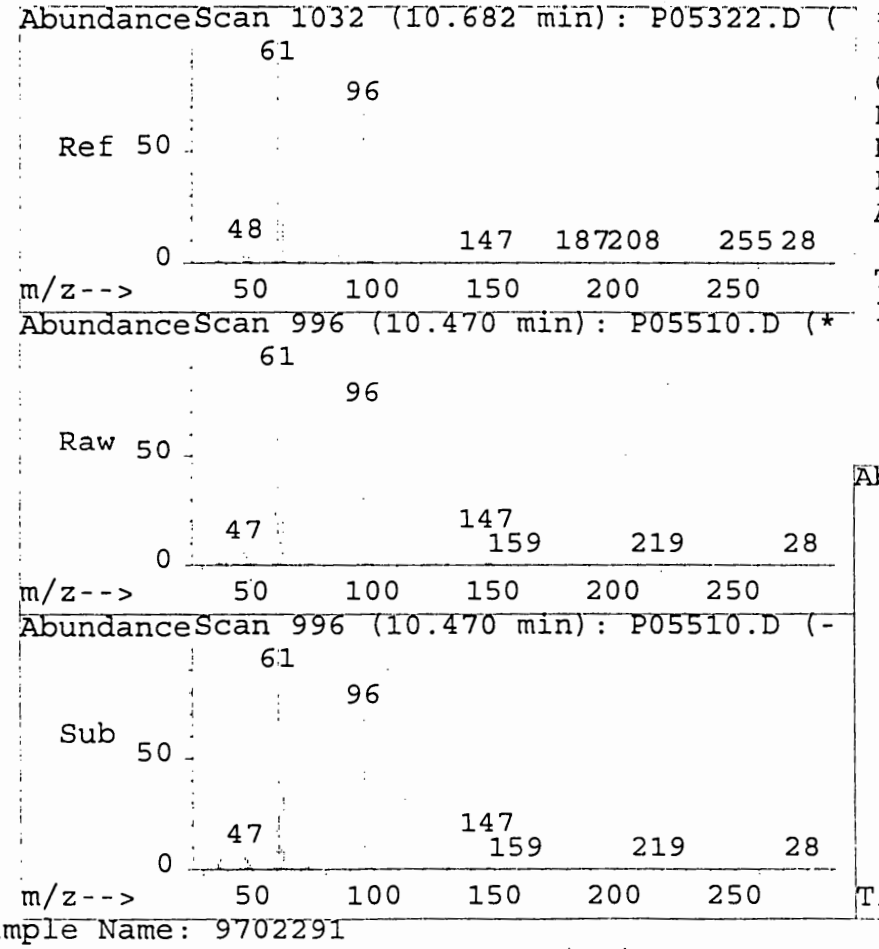


#14
cis-,1,2-Dichloroethene
Concen: 22.88 UG/L
RT: 10.47 min Scan# 996
Delta R.T. 0.06 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

Tgt Ion:95.85 Resp: 61693

Ion	Ratio	Lower	Upper
96	100		
98	68.4	53.1	79.6
61	151.5	105.0	157.5
0	0.0	0.0	0.0

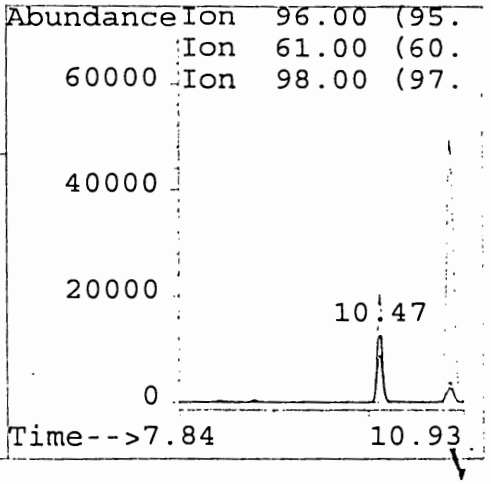




#15
1,2-Dichloroethene (total)
Concen: 23.67 UG/L m
RT: 10.47 min Scan# 996
Delta R.T. 1.67 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

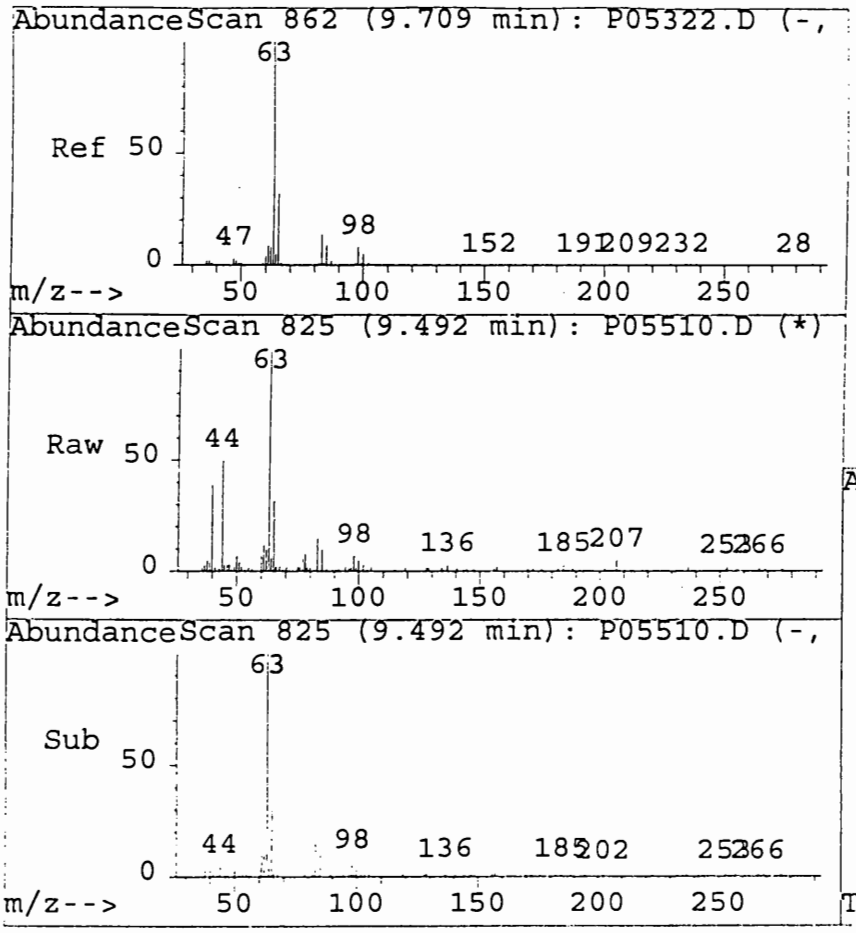
Tgt Ion:96 Resp: 66366

Ion	Ratio	Lower	Upper
96	100		
61	144.1	111.6	151.6
98	66.1	44.6	84.6
0	0.0	0.0	0.0



Sample Name: 9702291
Misc. Info: B60227 H5970-3 1/27/97 5.0ML
P05510.D CLPW.M Tue Feb 11 08:57:27 1997 MASSPEC1 Page 3

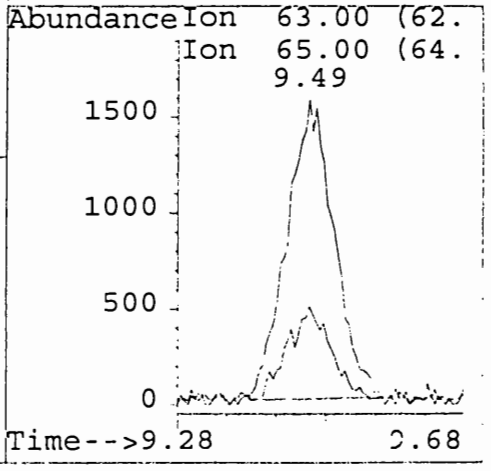
00:36

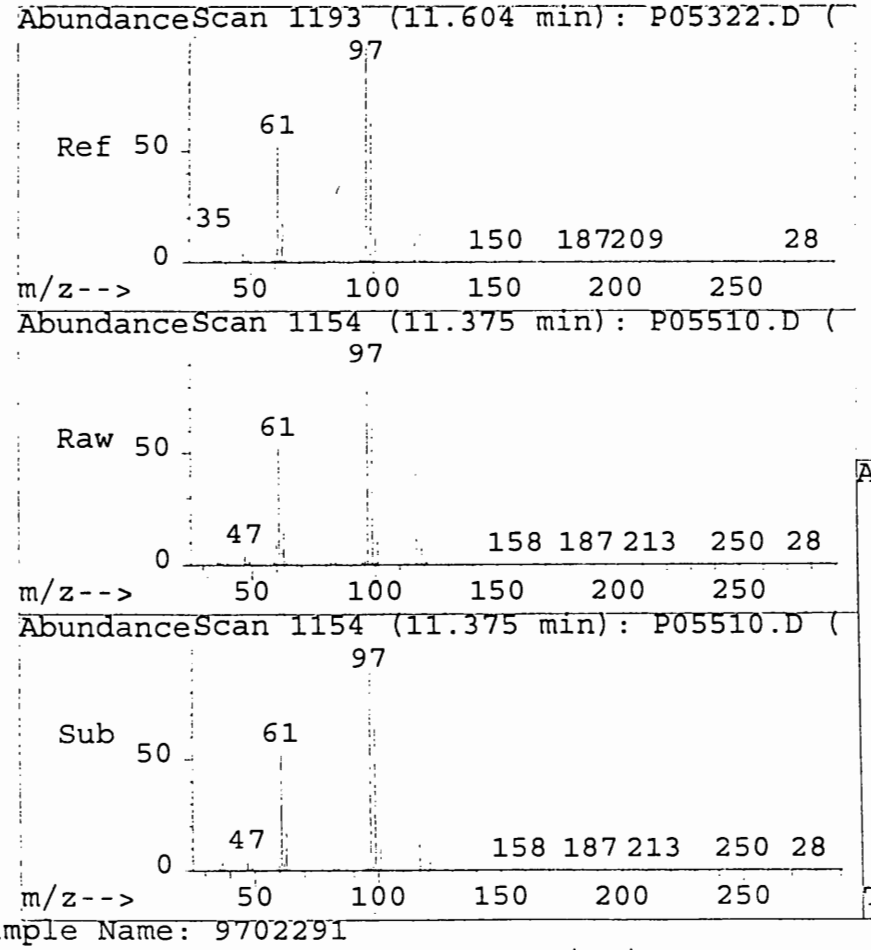


#16
1,1-Dichloroethane
Concen: 1.62 UG/L
RT: 9.49 min Scan# 825
Delta R.T. 0.03 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

Tgt Ion:63 Resp: 8135

Ion	Ratio	Lower	Upper
63	100		
65	31.1	10.4	50.4
0	0.0	0.0	0.0
0	0.0	0.0	0.0

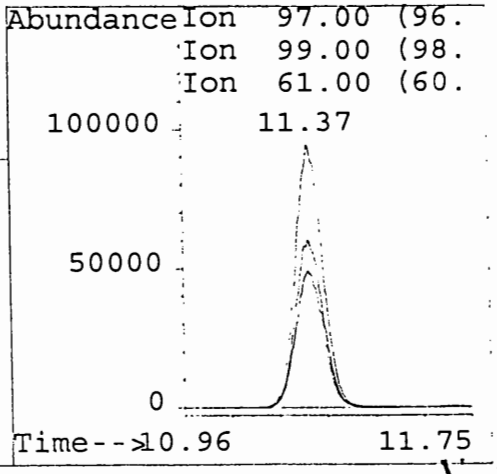




#22
1,1,1-Trichloroethane
Concen: 101.81 UG/L
RT: 11.37 min Scan# 1154
Delta R.T. 0.05 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

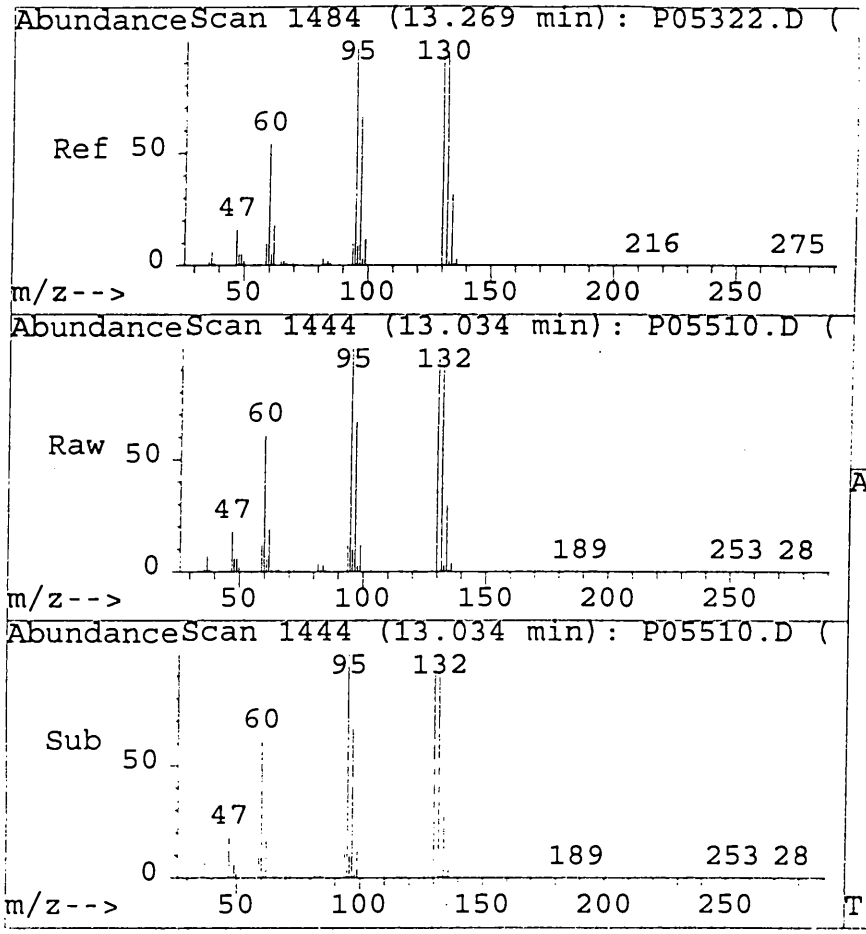
Tgt Ion:97 Resp: 594491

Ion	Ratio	Lower	Upper
97	100		
99	64.0	46.6	86.6
61	52.1	27.5	67.5
0	0.0	0.0	0.0



Sample Name: 9702291
Misc. Info: B60227 H5970-3 1/27/97 5.0ML

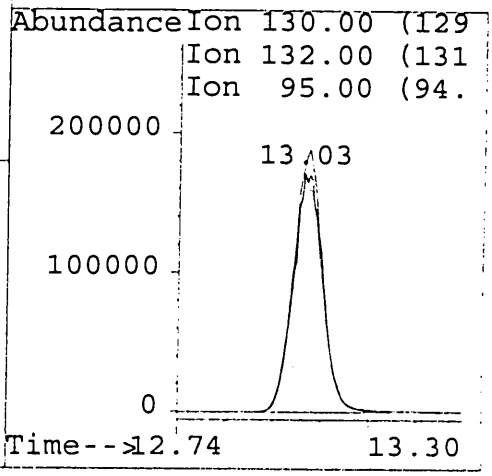
V 0037

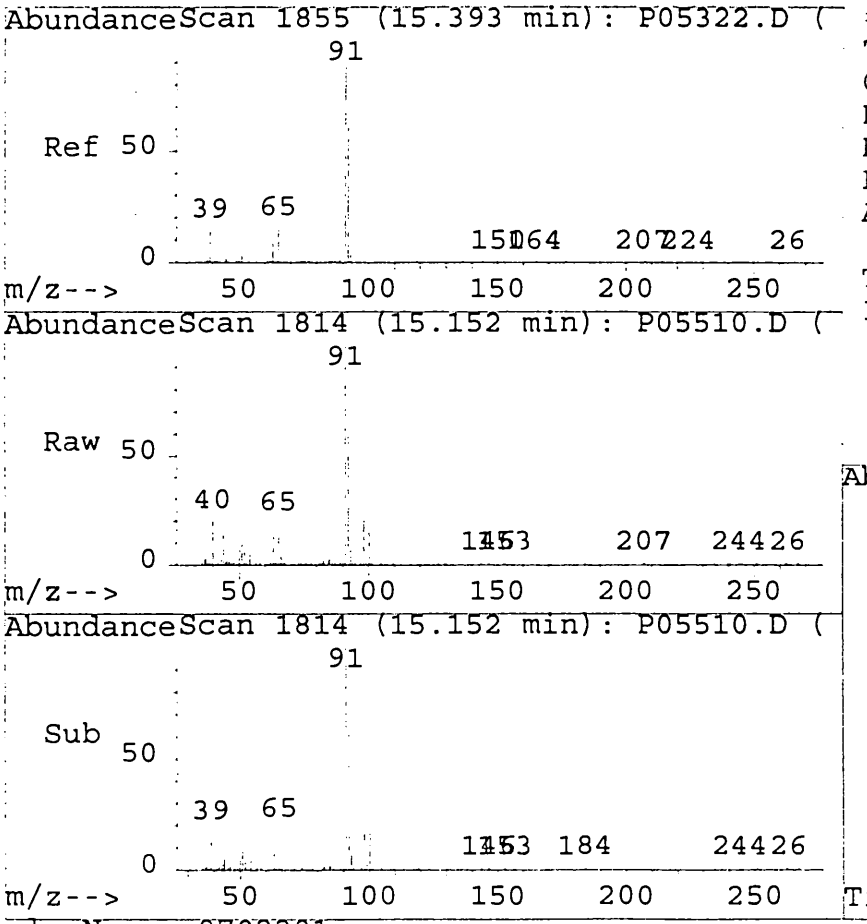


#24
Trichloroethene
Concen: 249.44 UG/L
RT: 13.03 min Scan# 1444
Delta R.T. 0.05 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

Tgt Ion:130 Resp: 807549

Ion	Ratio	Lower	Upper
130	100		
132	101.6	82.0	122.0
95	105.6	80.0	120.0
0	0.0	0.0	0.0

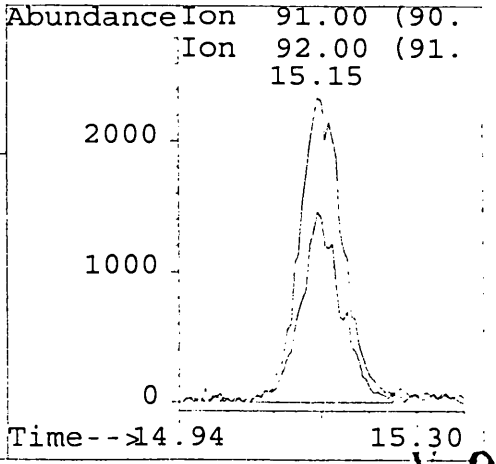




#36
Toluene
Concen: 1.98 UG/L
RT: 15.15 min Scan# 1814
Delta R.T. 0.06 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

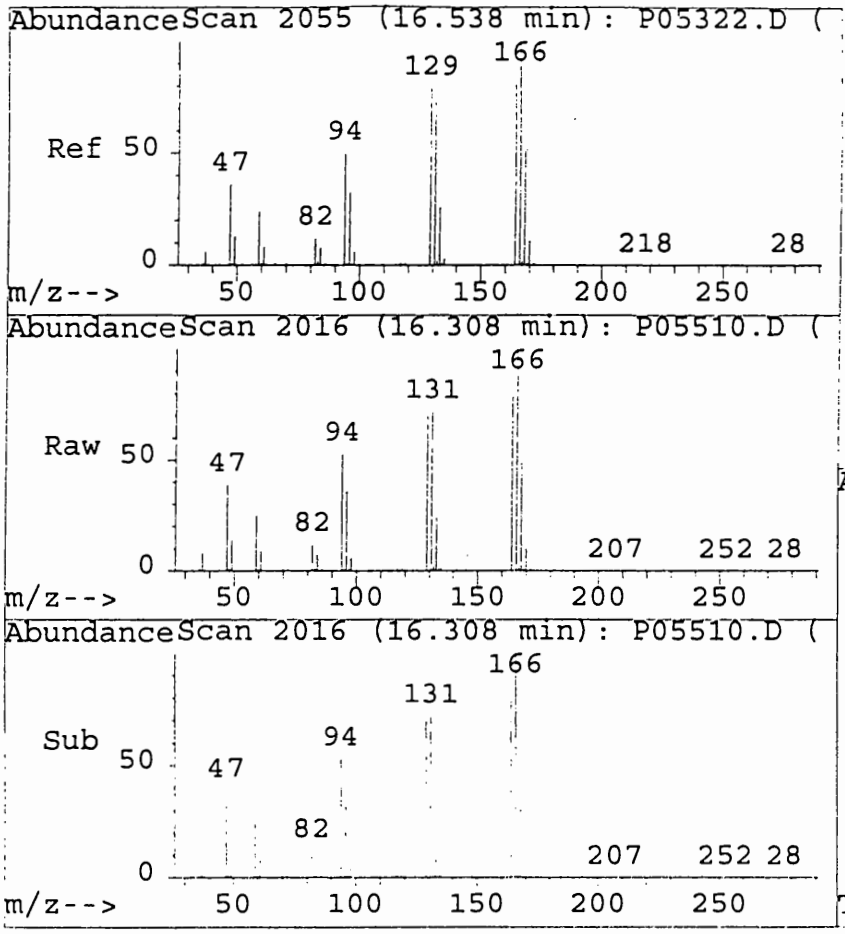
Tgt Ion:91 Resp: 10805

Ion	Ratio	Lower	Upper
91	100		
92	61.3	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Sample Name: 9702291
Misc. Info: B60227 H5970-3 1/27/97 5.0ML
P05510.D CLPW.M Tue Feb 11 08:57:33 1997 MASSPEC1 Page 5

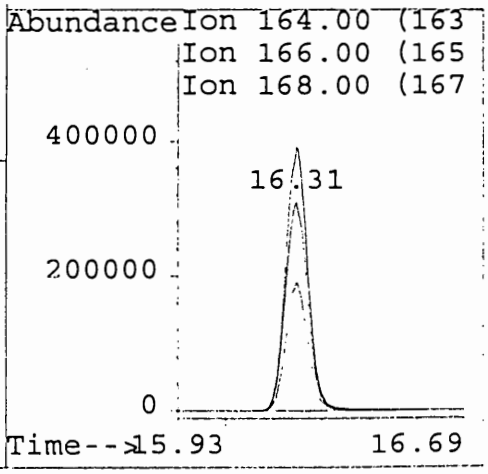
V 0035



#37
Tetrachloroethene
Concen: 469.07 UG/L
RT: 16.31 min Scan# 2016
Delta R.T. 0.05 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

Tgt Ion:164 Resp: 1501877

Ion	Ratio	Lower	Upper
164	100		
166	126.6	109.5	149.5
168	61.5	42.4	82.4
0	0.0	0.0	0.0



Sample Name: 9702291
Misc. Info: B60227 H5970-3 1/27/97 5.0ML
P05510.D CLPW.M Tue Feb 11 08:57:35 1997 MASSPEC1

V 0039

Library Search Compound Report

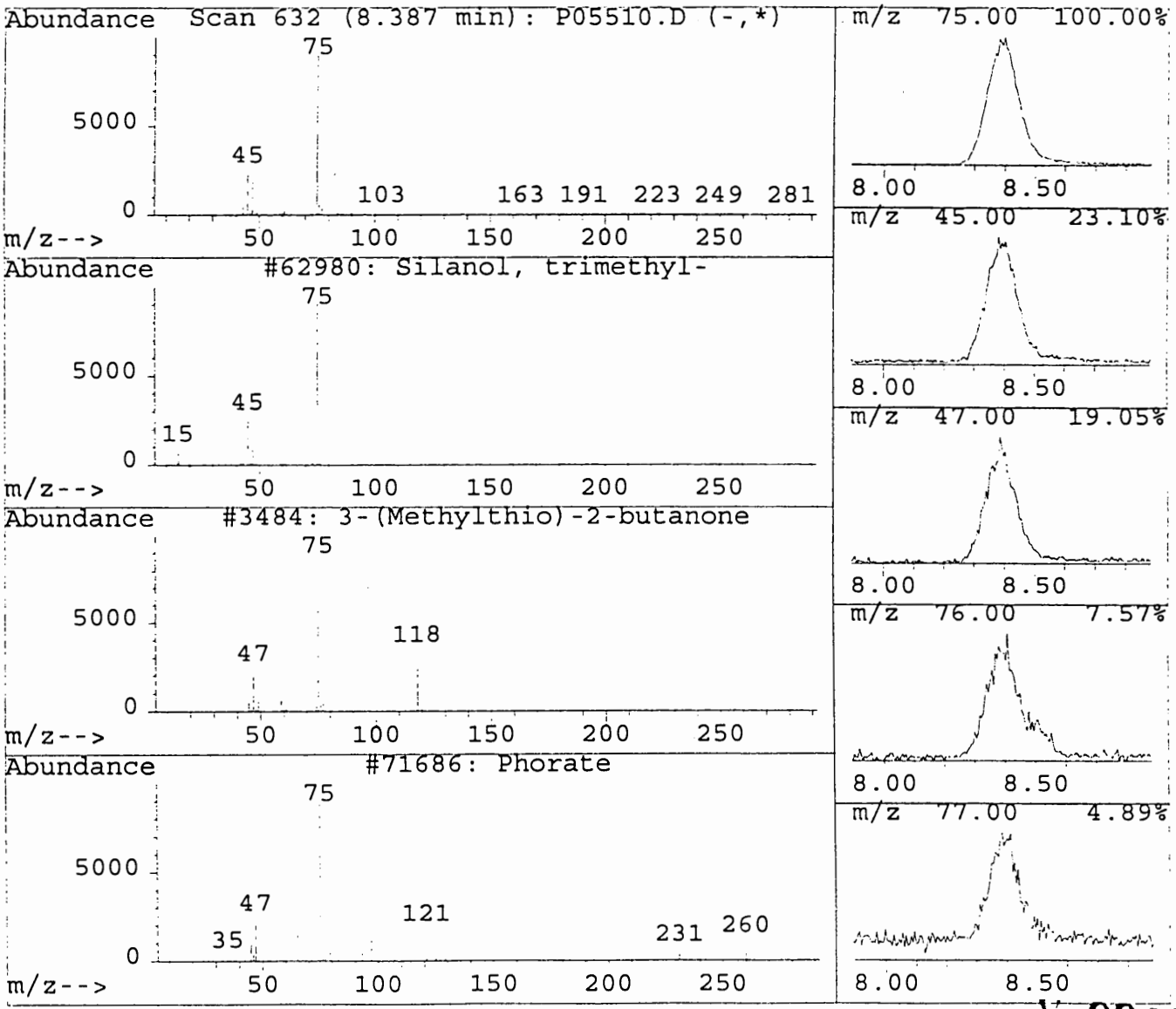
Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 18:49
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.39	13.56 UG/L	142136	Bromochloromethane	11.00

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	42
2	3-(Methylthio)-2-butanone	118	C5H10OS	053475-15-3	40
3	Phorate	260	C7H17O2PS3	000298-02-2	39
4	Benzene, (2,2-diethoxyethyl)-	194	C12H18O2	006314-97-2	38
5	Acetic acid, (trimethylsilyl)-	132	C5H12O2Si	002345-38-2	38



V 0040

Library Search Compound Report

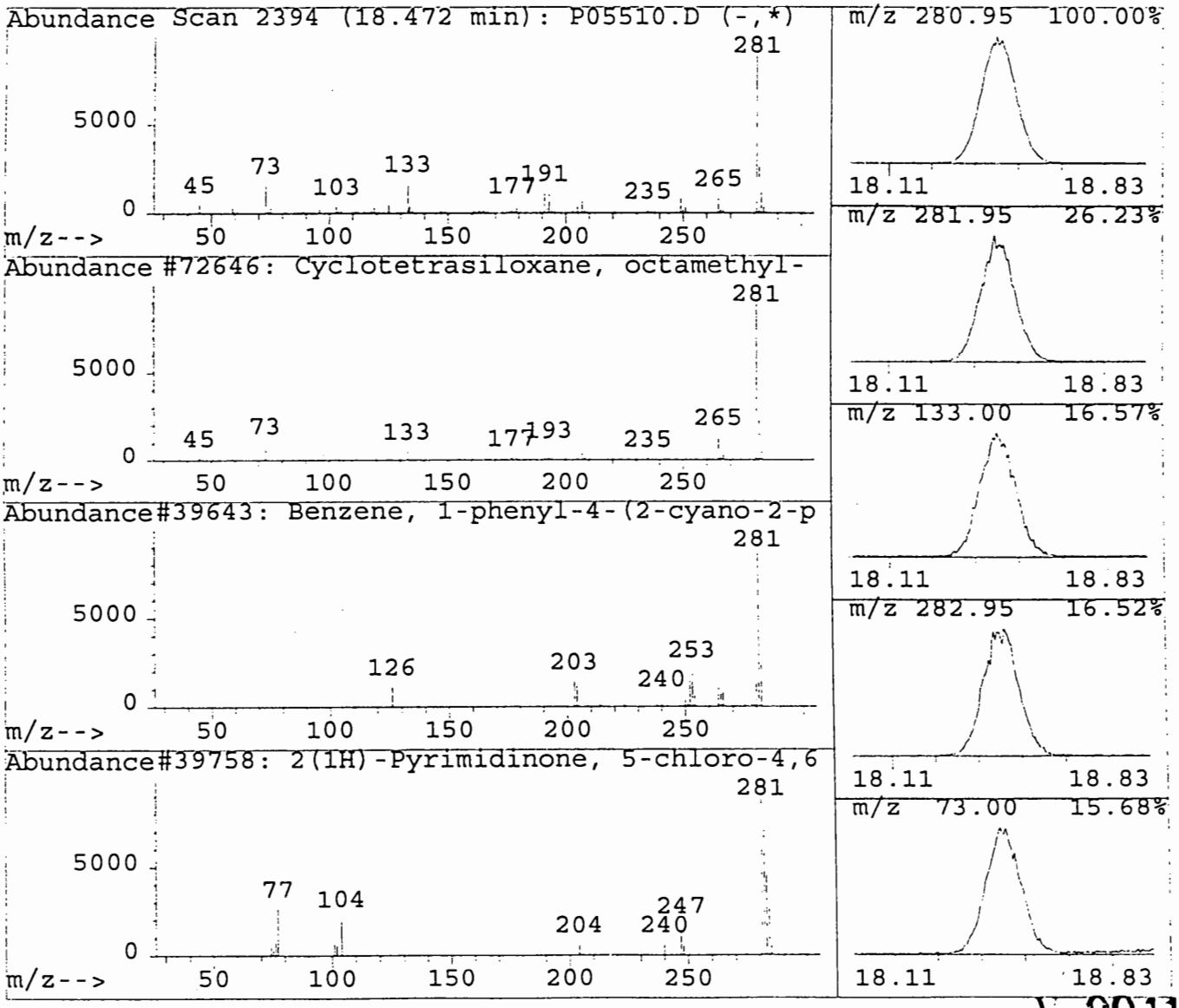
Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 18:49
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.47	29.71 UG/L	450671	Chlorobenzene-d5	17.68

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	56
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	47
3	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	9
4	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	9
5	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	7



V 0041

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60227DL

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702291DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05533.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	50	U
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-4	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	26	JD
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	130	D
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	290	D
71-43-2	Benzene	50	U
124-48-1	Dibromochloromethane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	510	D
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60227DL

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702291DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05533.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 1

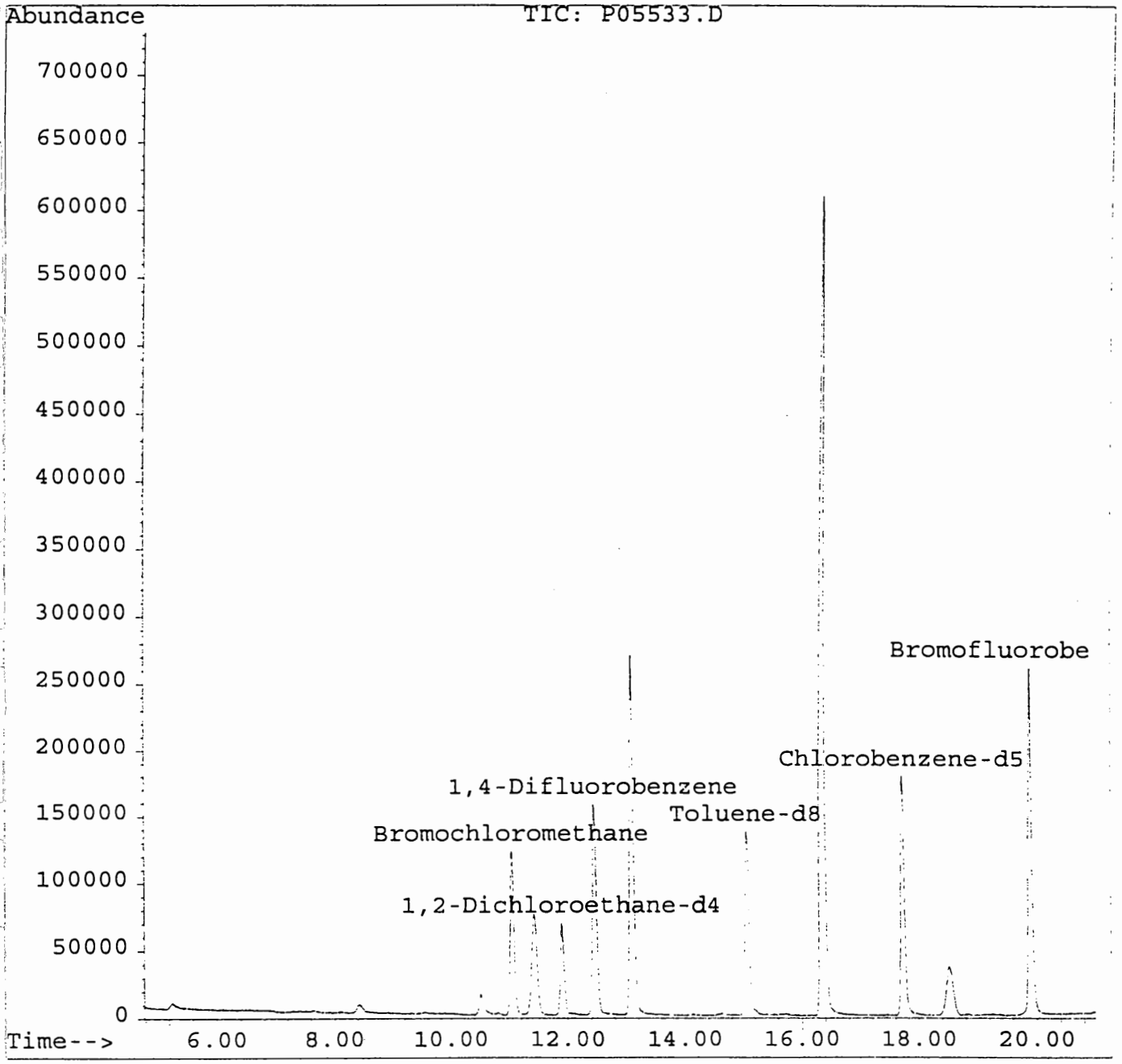
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.51	45	JND

V 0043

Quantitation Report

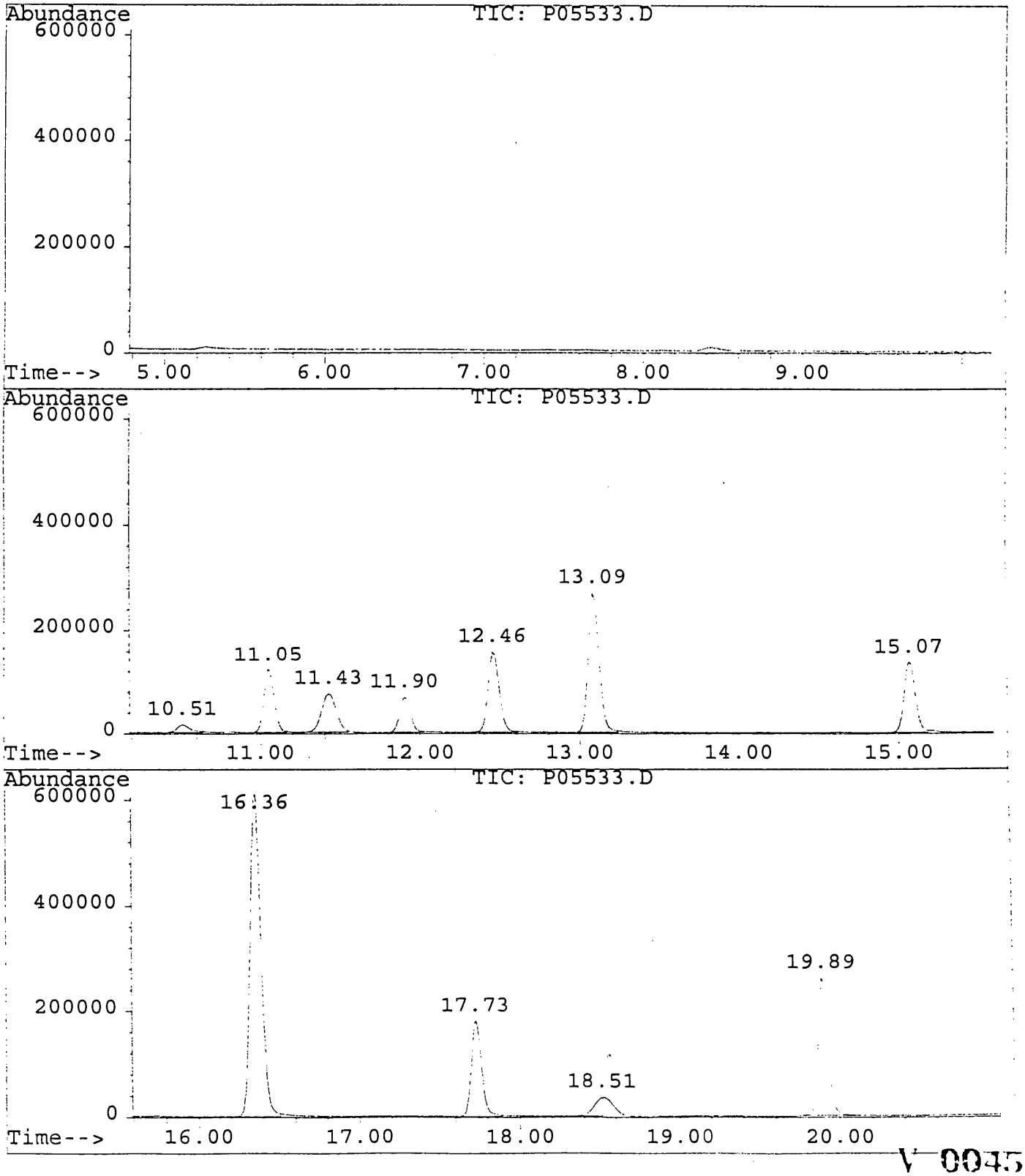
Data File : C:\HPCHEM\1\DATA\P05533.D Vial: 15
Acq On : 29 Jan 97 8:43 pm Operator: GLENN
Sample : 9702291DL 1:5 Inst : 5970 - In
Misc : B60227 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
Quant Time: Feb 11 8:48 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0041

File : C:\HPCHEM\1\DATA\P05533.D
Operator : GLENN
Acquired : 29 Jan 97 20:43 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702291DL 1:5
Misc Info : B60227 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Vial Number: 15



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05533.D Vial: 15
Acq On : 29 Jan 97 20:43 Operator: GLENN
Sample : 9702291DL 1:5 Inst : 5970 - In
Misc : B60227 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
Quant Time: Feb 11 8:48 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 29 14:26:15 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.06	128	72304	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.46	114	269301	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.72	117	217389	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.90	65	120631	59.24	UG/L	118.47%
34) Toluene-d8	15.07	98	220739	48.99	UG/L	97.99%
43) Bromofluorobenzene	19.89	95	219769	54.32	UG/L	108.64%
Target Compounds						Qvalue
14) cis-,1,2-Dichloroethene	10.52	96	13084	4.09	UG/L	92
15) 1,2-Dichloroethene (total)	10.52	96	16513m	5.22	UG/L	14
22) 1,1,1-Trichloroethane	11.43	97	143841	25.45	UG/L	95
24) Trichloroethene	13.09	130	198362	58.52	UG/L	95
37) Tetrachloroethene	16.36	164	349343	102.63	UG/L	94

GKB 2/11/97

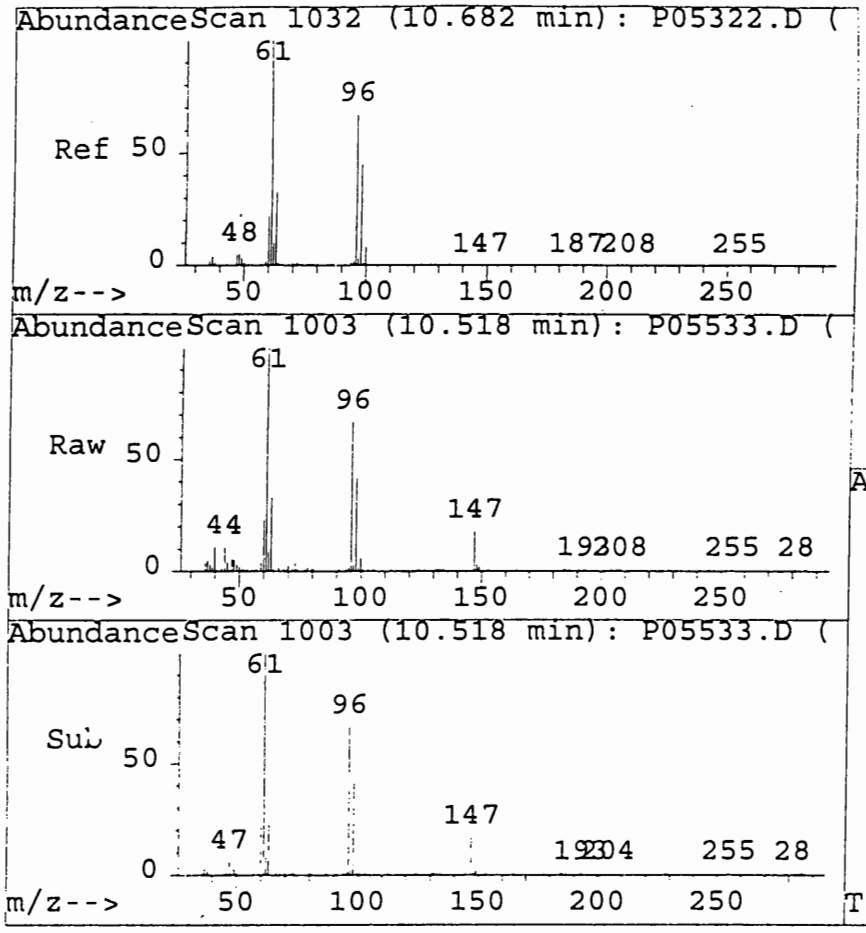
(#) = qualifier out of range (m) = manual integration

V 0046

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 29 Jan 97 20:43
Data File: C:\HPCHEM\1\DATA\P05533.D
Name: 9702291DL 1:5
Misc: B60227 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

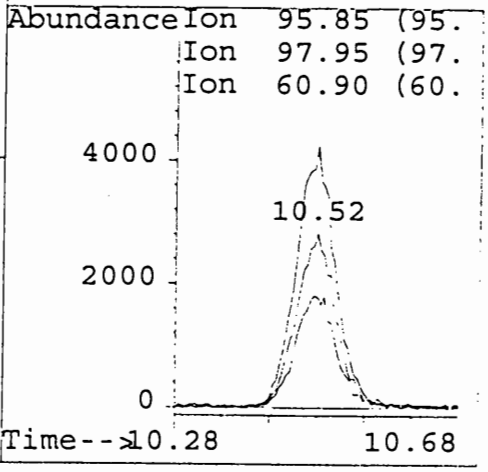
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotetrasiloxane,	18.51	9.0	UG/L	141067	ISTD03	17.72	785833	50.0

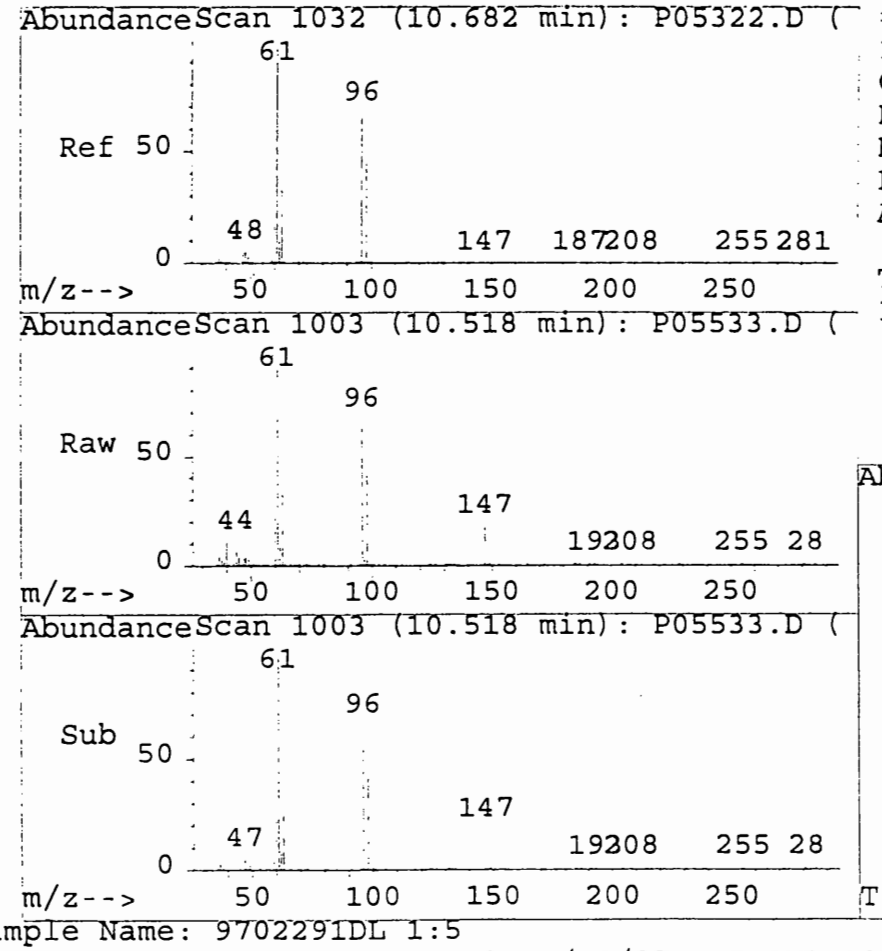


#14
cis-,1,2-Dichloroethene
Concen: 4.09 UG/L
RT: 10.52 min Scan# 1003
Delta R.T. -0.00 min
Lab File: P05533.D
Acq: 29 Jan 97 8:43 pm

Tgt Ion:95.85 Resp: 13084

Ion	Ratio	Lower	Upper
96	100		
98	66.8	53.1	79.6
61	145.3	105.0	157.5
0	0.0	0.0	0.0

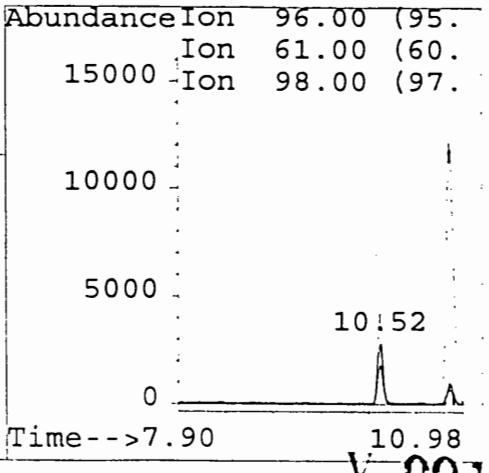




#15
1,2-Dichloroethene (total)
Concen: 5.22 UG/L m
RT: 10.52 min Scan# 1003
Delta R.T. 1.63 min
Lab File: P05533.D
Acq: 29 Jan 97 8:43 pm

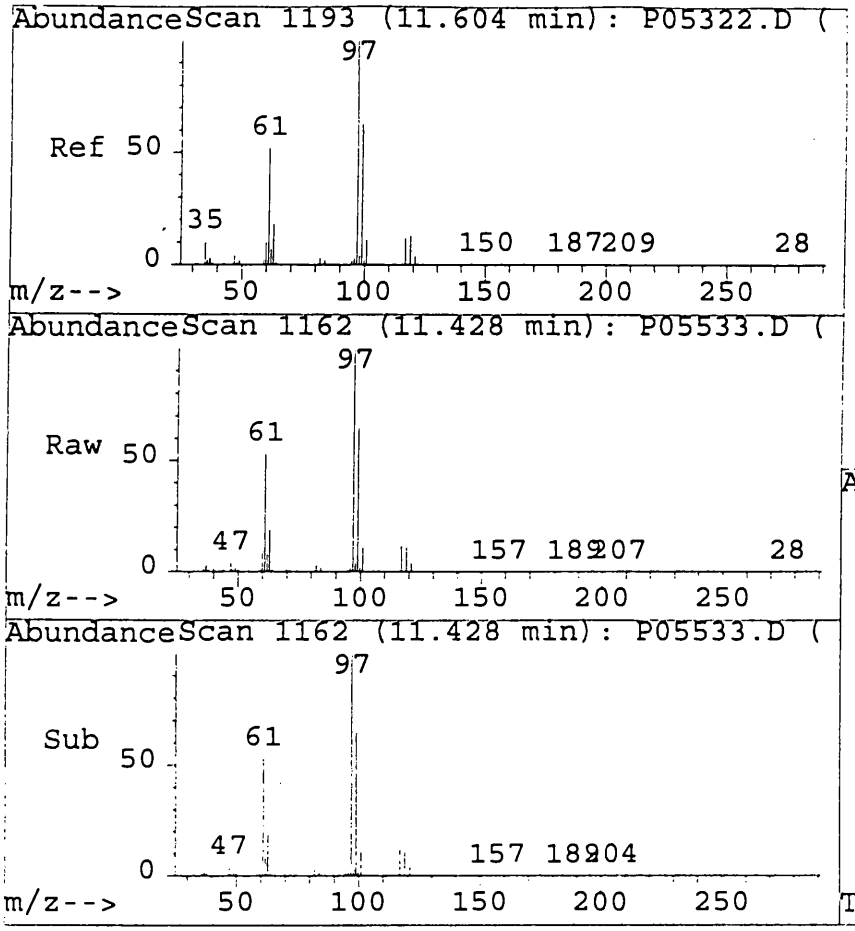
Tgt Ion:96 Resp: 16513

Ion	Ratio	Lower	Upper
96	100		
61	150.1	111.6	151.6
98	63.2	44.6	84.6
0	0.0	0.0	0.0



Sample Name: 9702291DL 1:5
Misc. Info: B60227 H5970-3 1/29/97 5.0ML 10UL ANTIFO

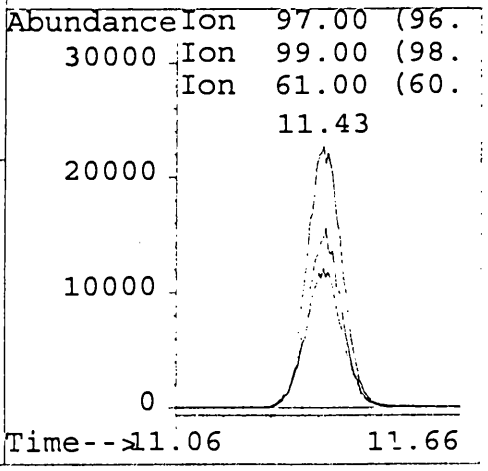
V 0045

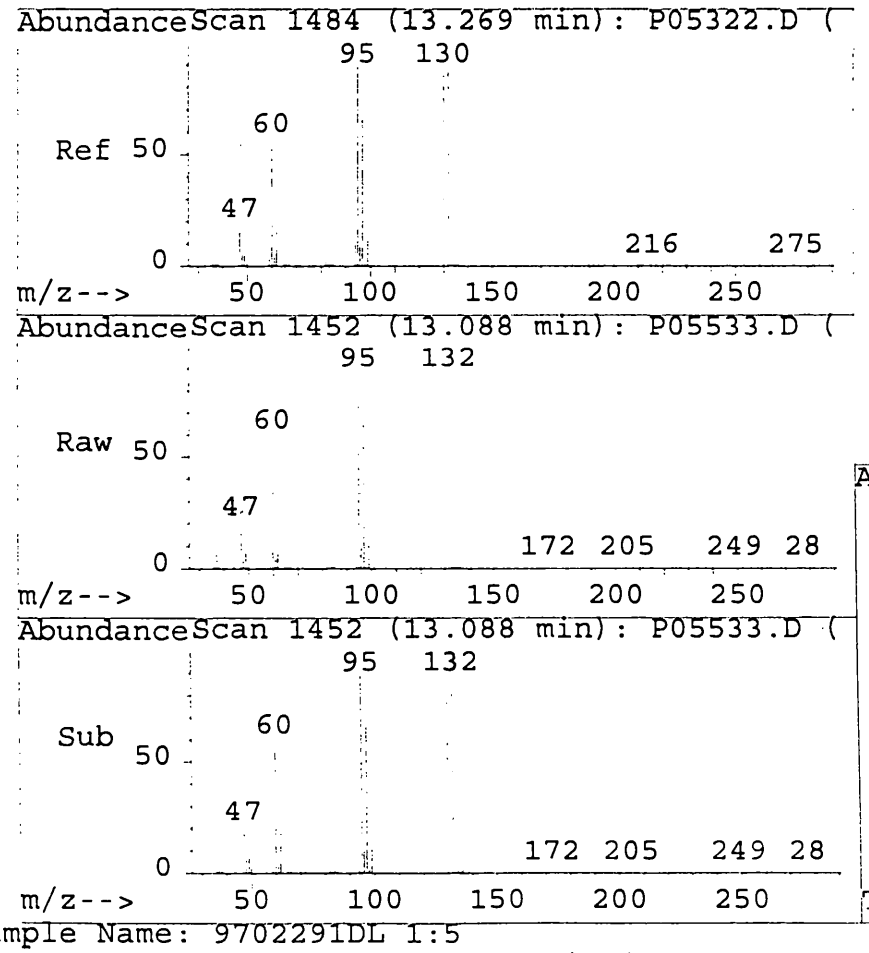


#22
1,1,1-Trichloroethane
Concen: 25.45 UG/L
RT: 11.43 min Scan# 1162
Delta R.T. -0.00 min
Lab File: P05533.D
Acq: 29 Jan 97 8:43 pm

Tgt Ion:97 Resp: 143841

Ion	Ratio	Lower	Upper
97	100		
99	65.2	46.6	86.6
61	53.3	27.5	67.5
0	0.0	0.0	0.0

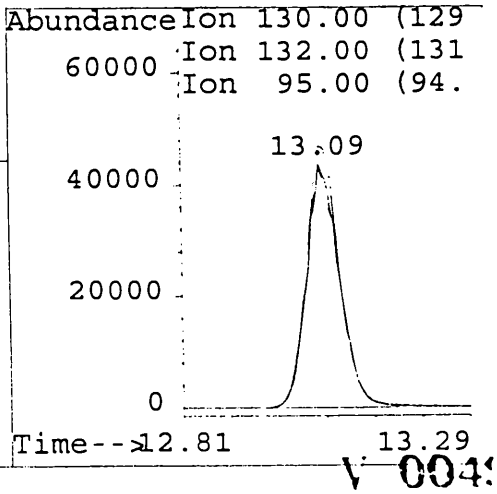




#24
Trichloroethene
Concen: 58.52 UG/L
RT: 13.09 min Scan# 1452
Delta R.T. -0.01 min
Lab File: P05533.D
Acq: 29 Jan 97 8:43 pm

Tgt Ion:130 Resp: 198362

Ion	Ratio	Lower	Upper
130	100		
132	101.7	82.0	122.0
95	109.4	80.0	120.0
0	0.0	0.0	0.0



Sample Name: 9702291DL 1:5
Misc. Info: B60227 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05533.D CLPW.M Tue Feb 11 08:59:44 1997 MASSPEC1

V 0049

Library Search Compound Report

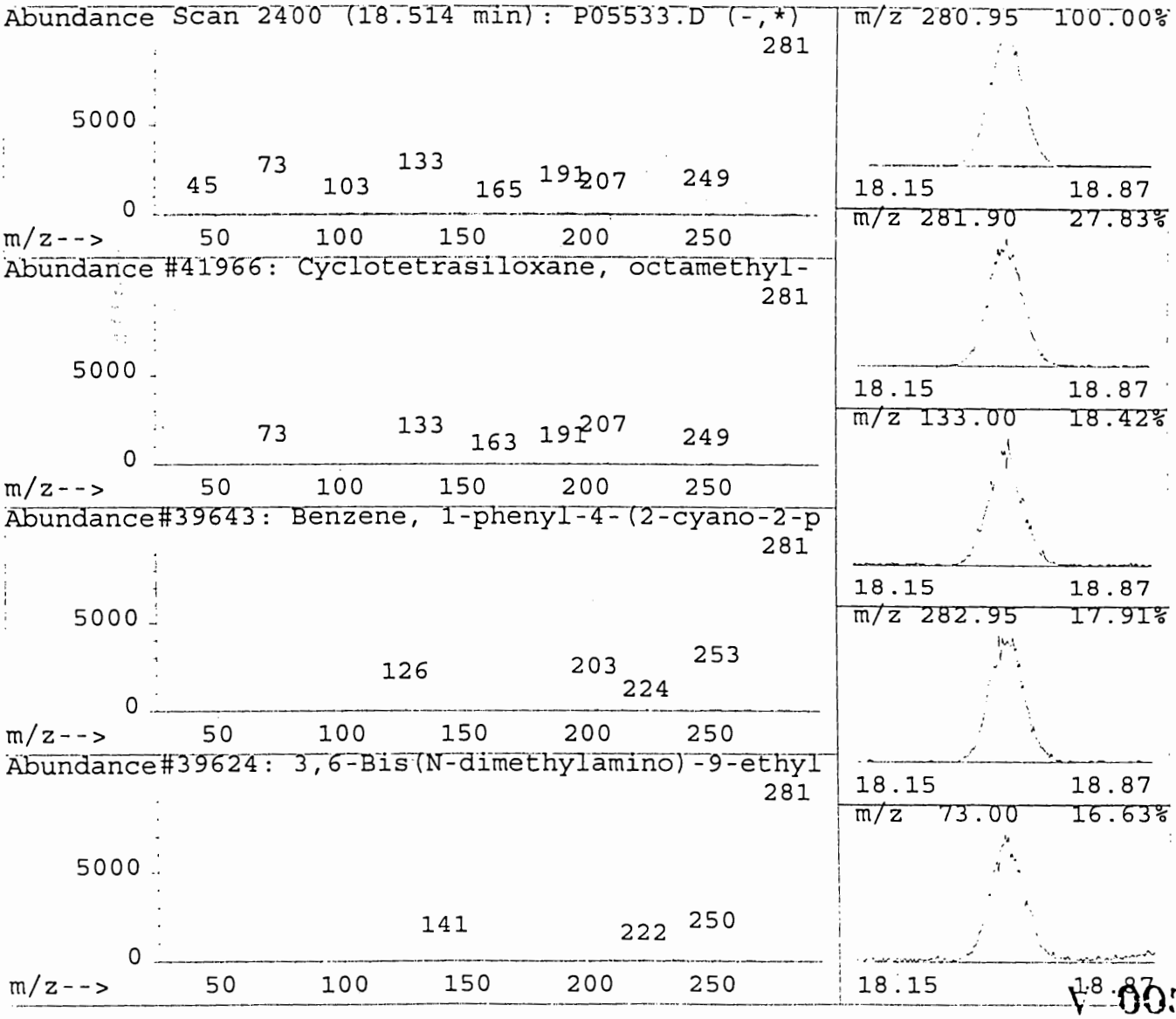
Data File : C:\HPCHEM\1\DATA\P05533.D
Acq On : 29 Jan 97 20:43
Sample : 9702291DL 1:5
Misc : B60227 H5970-3 1/29/97 5.0ML 10UL AN

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.51	8.98 UG/L	141067	Chlorobenzene-d5	17.72

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	28
4	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	12
5	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	7



V-0051

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60228

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702292

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05511.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Monitoring well

N-11843

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	7	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	19	
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	20	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60228

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702292

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05511.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 2

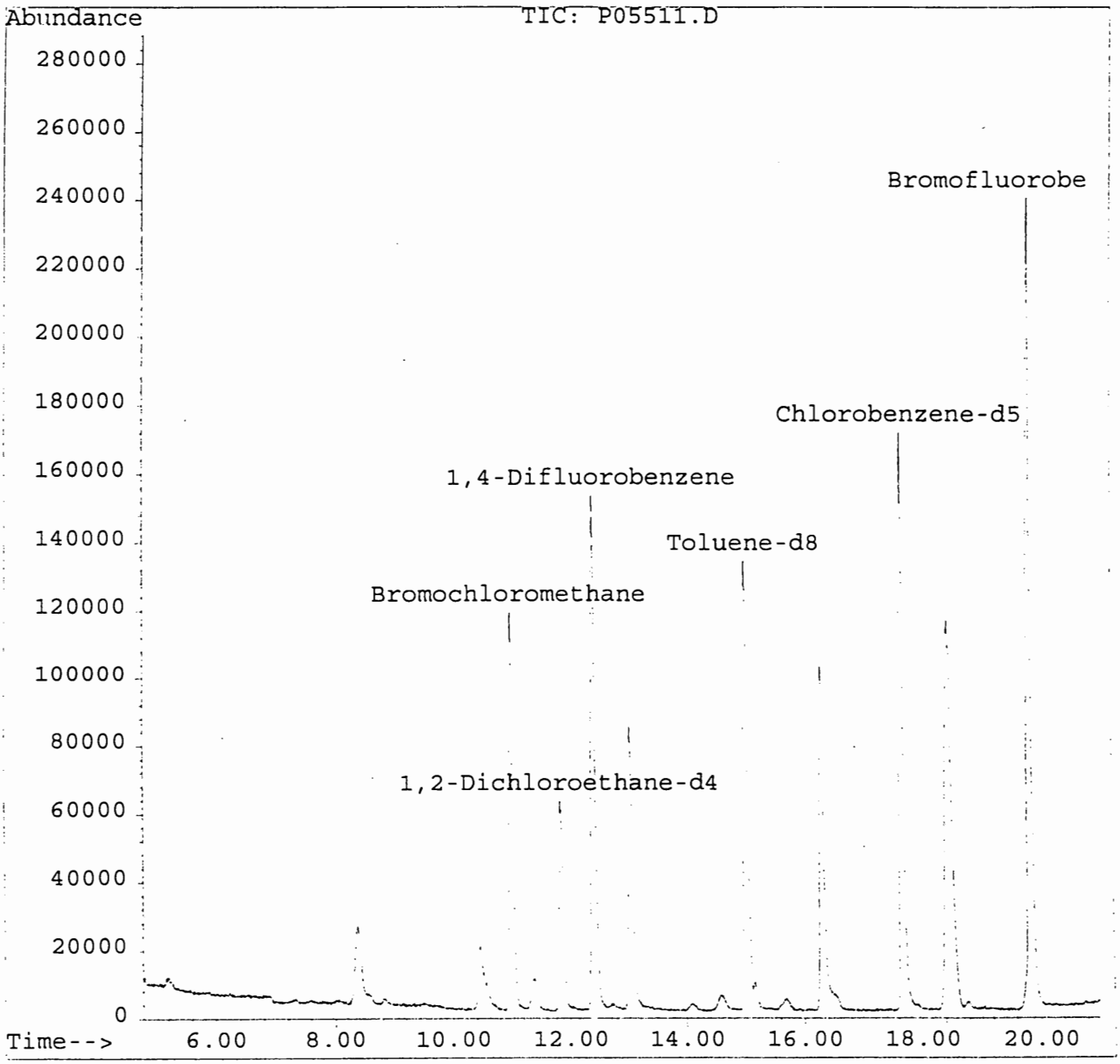
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	16	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	31	JN

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05511.D
Acq On : 28 Jan 97 7:19 pm
Sample : 9702292
Misc : B60228 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:41 1997

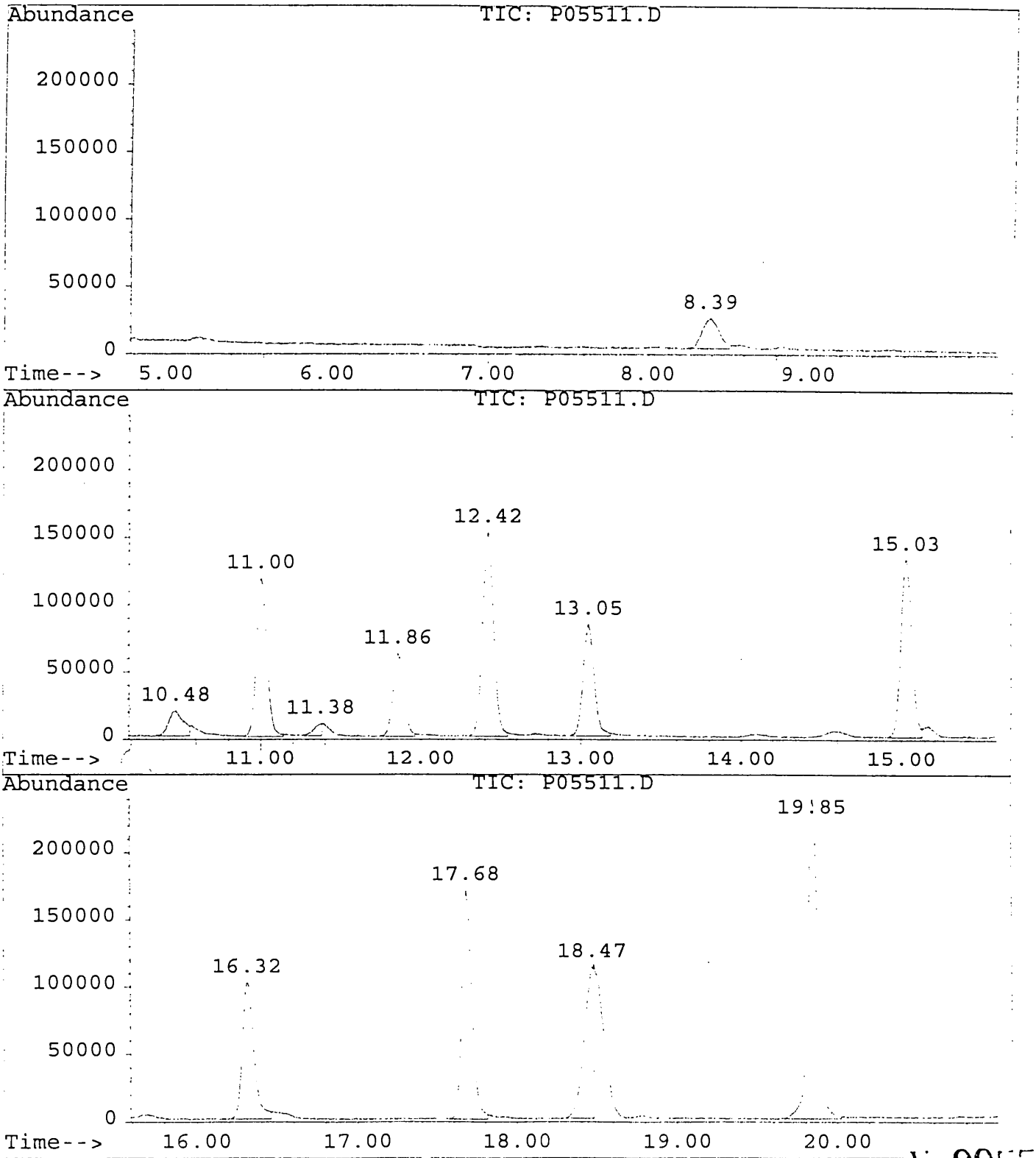
Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 00514

File : C:\HPCHEM\1\DATA\P05511.D
Operator : GLENN
Acquired : 28 Jan 97 19:19 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702292
Misc Info : B60228 H5970-3 1/27/97 5.0ML
Vial Number: 16



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05511.D Vial: 16
Acq On : 28 Jan 97 19:19 Operator: GLENN
Sample : 9702292 Inst : 5970 - In
Misc : B60228 H5970-3 1/27/97 5.0ML Multiplr: 1.00
Quant Time: Feb 11 8:41 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.01	128	68527	50.00	UG/L	0.06
21) 1,4-Difluorobenzene	12.42	114	260723	50.00	UG/L	0.06
33) Chlorobenzene-d5	17.68	117	202915	50.00	UG/L	0.05
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.86	65	110299	52.94	UG/L	105.88%
34) Toluene-d8	15.02	98	210605	51.85	UG/L	103.71%
43) Bromofluorobenzene	19.85	95	196570	50.34	UG/L	100.68%
Target Compounds						Qvalue
14) cis-,1,2-Dichloroethene	10.46	96	13550	5.07	UG/L	# 74
15) 1,2-Dichloroethene (total)	10.46	96	18302m	6.59	UG/L	79
22) 1,1,1-Trichloroethane	11.39	97	17844	3.06	UG/L	92
24) Trichloroethene	13.05	130	61527	19.04	UG/L	93
36) Toluene	15.17	91	11435	2.18	UG/L	90
37) Tetrachloroethene	16.32	164	60270	19.56	UG/L	98

CKB 2/11/97

V-0056

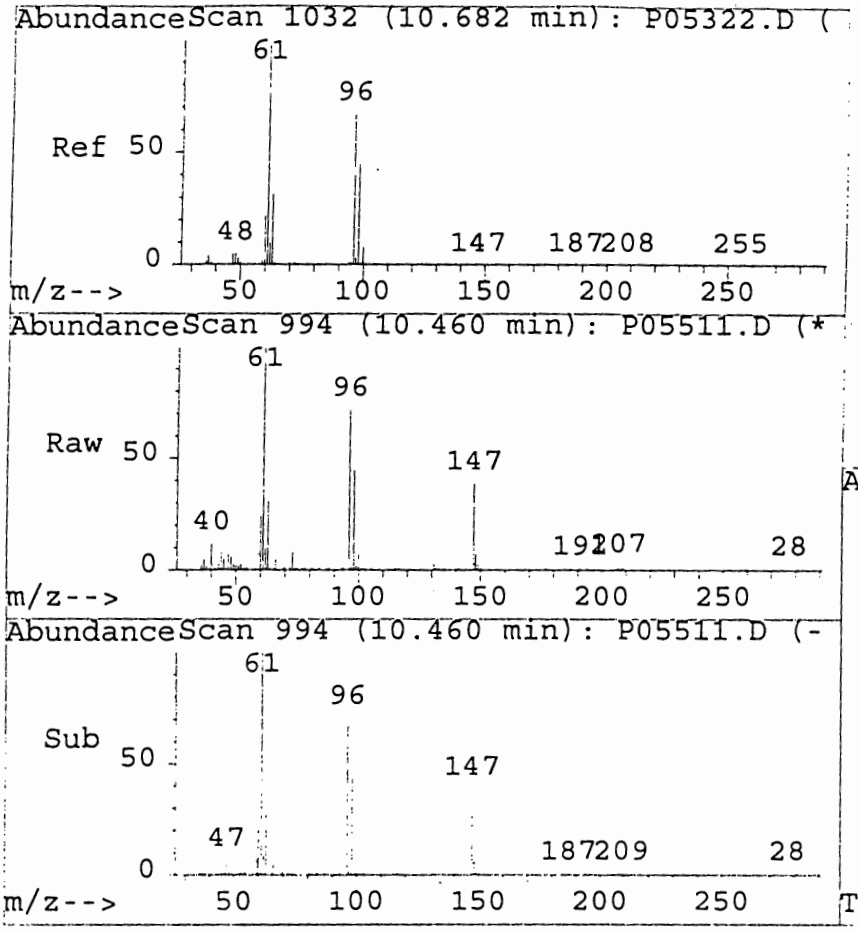
(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 19:19
Data File: C:\HPCHEM\1\DATA\P05511.D
me: 9702292
sc: B60228 H5970-3 1/27/97 5.0ML
Method: CLPW
tle: VOA CLP WATER METHOD
brary Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
lanol, trimethyl-	8.39	15.9	UG/L	166858	ISTD01	11.01	524248	50.0
clotetrasiloxane,	18.47	31.2	UG/L	458376	ISTD03	17.68	735425	50.0

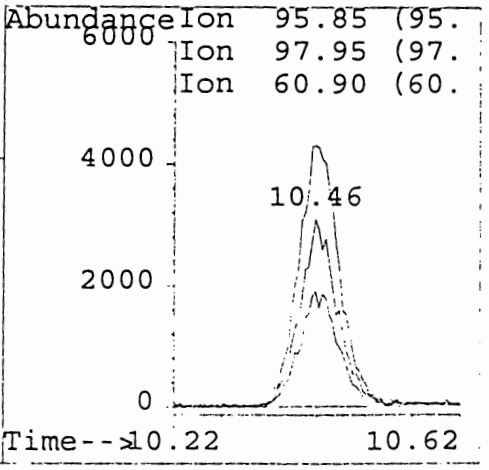
V 0057

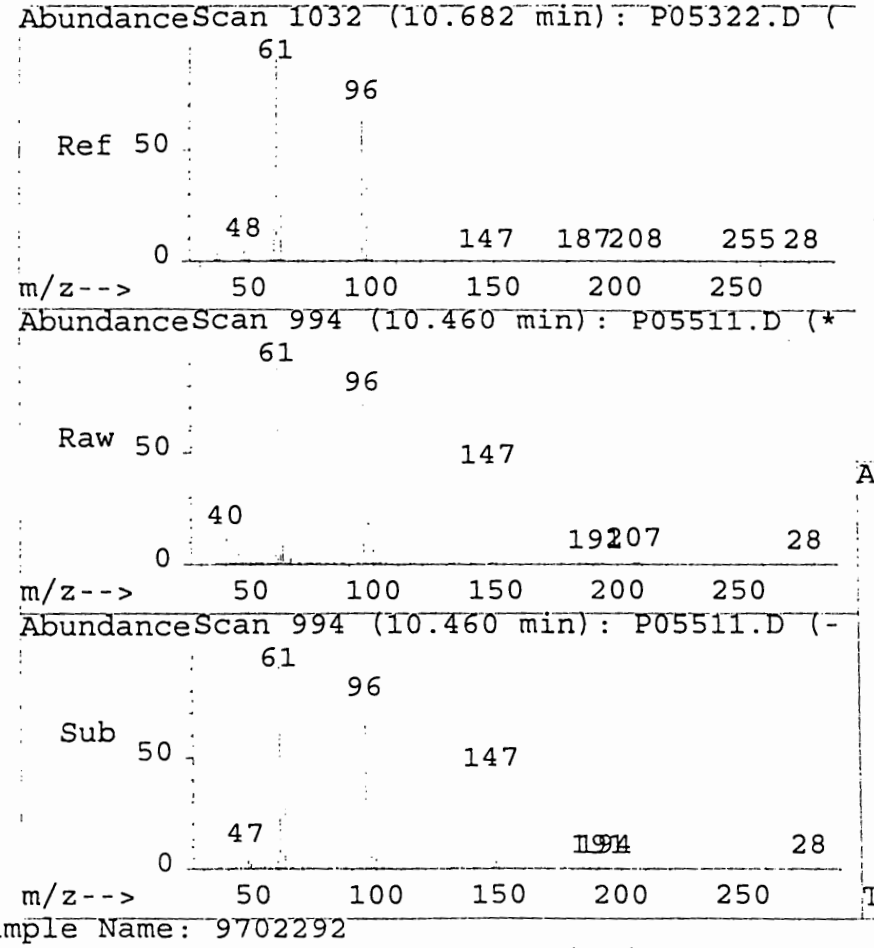


#14
cis-,1,2-Dichloroethene
Concen: 5.07 UG/L
RT: 10.46 min Scan# 994
Delta R.T. 0.05 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:95.85 Resp: 13550

Ion	Ratio	Lower	Upper
96	100		
98	34.2	53.1	79.6#
61	152.5	105.0	157.5
0	0.0	0.0	0.0

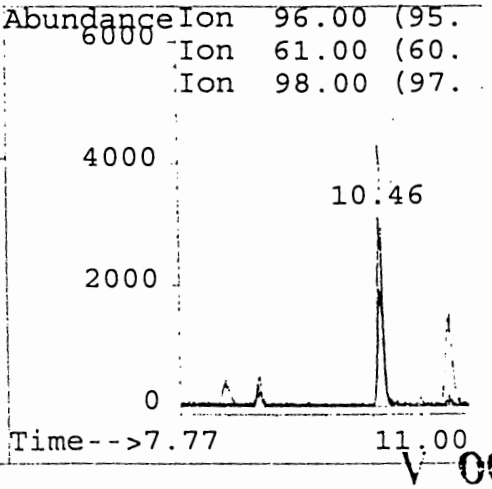




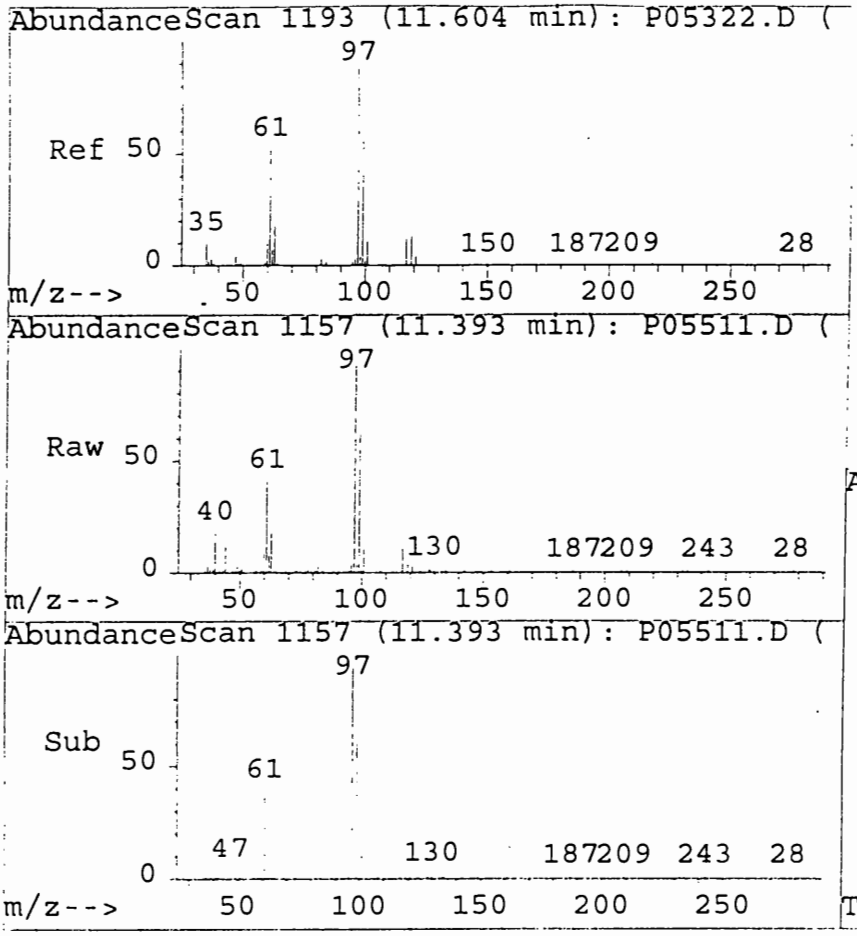
#15
1,2-Dichloroethene (total)
Concen: 6.59 UG/L m
RT: 10.46 min Scan# 994
Delta R.T. 1.66 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:96 Resp: 18302

Ion	Ratio	Lower	Upper
96	100		
61	138.8	111.6	151.6
98	62.1	44.6	84.6
0	0.0	0.0	0.0



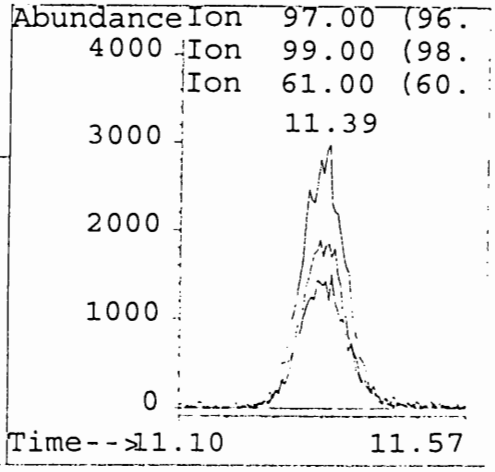
Sample Name: 9702292
Misc. Info: B60228 H5970-3 1/27/97 5.0ML
P05511.D CLPW.M Tue Feb 11 08:57:53 1997 MASSPEC1 Page 3

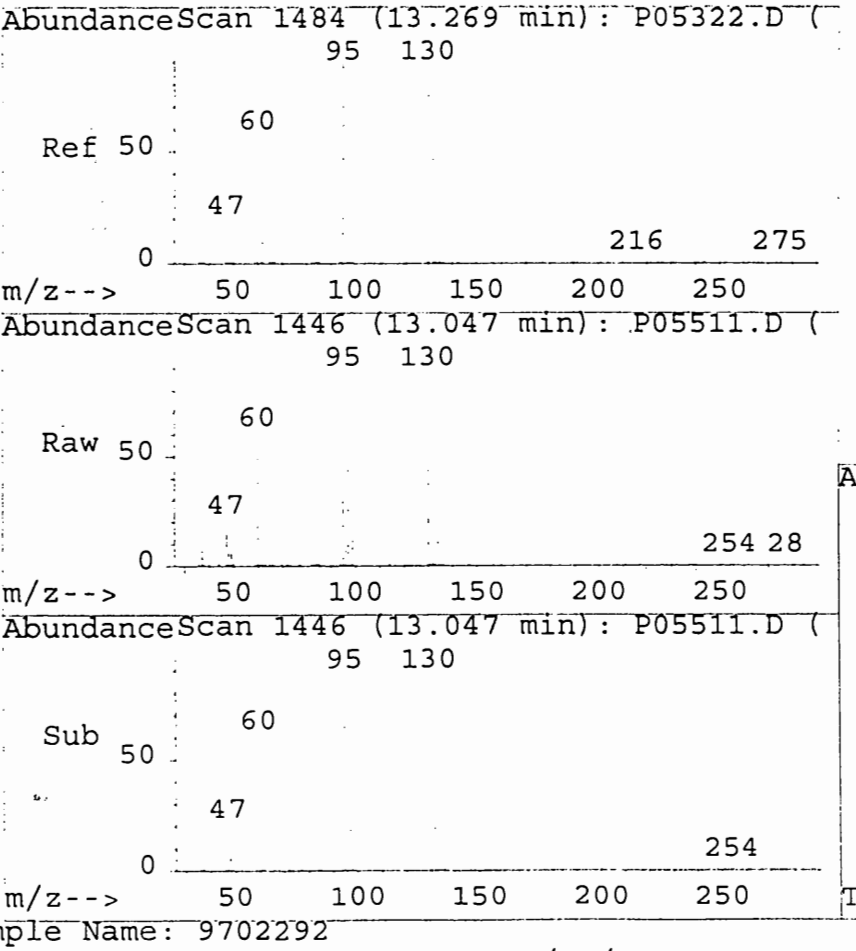


#22
1,1,1-Trichloroethane
Concen: 3.06 UG/L
RT: 11.39 min Scan# 1157
Delta R.T. 0.07 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:97 Resp: 17844

Ion	Ratio	Lower	Upper
97	100		
99	61.5	46.6	86.6
61	40.8	27.5	67.5
0	0.0	0.0	0.0

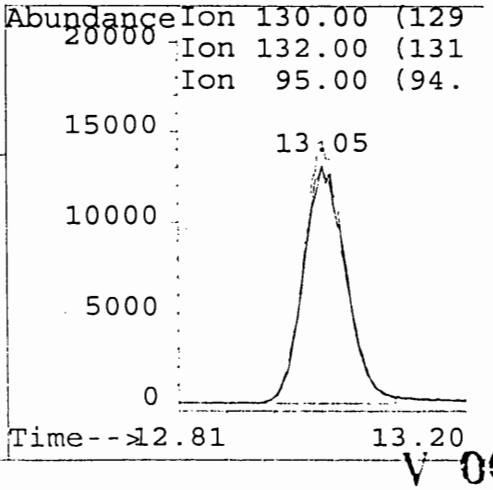


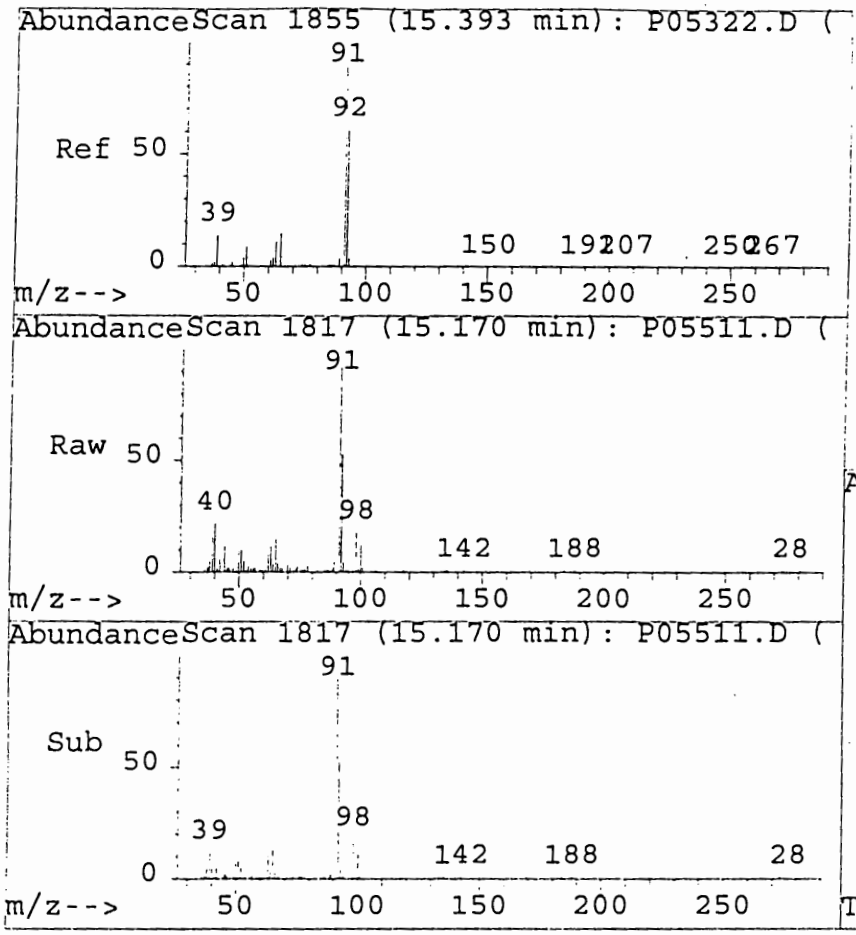


#24
Trichloroethene
Concen: 19.04 UG/L
RT: 13.05 min Scan# 1446
Delta R.T. 0.06 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:130 Resp: 61527

Ion	Ratio	Lower	Upper
130	100		
132	98.8	82.0	122.0
95	110.0	80.0	120.0
0	0.0	0.0	0.0

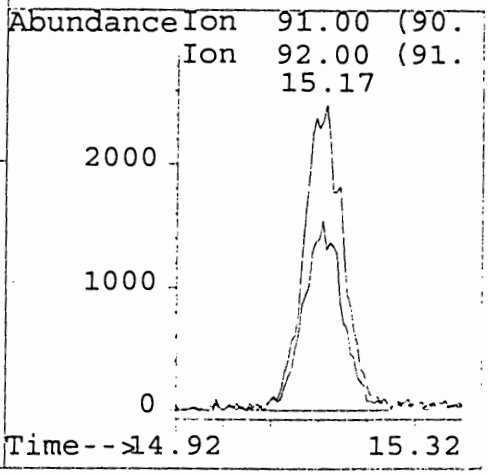


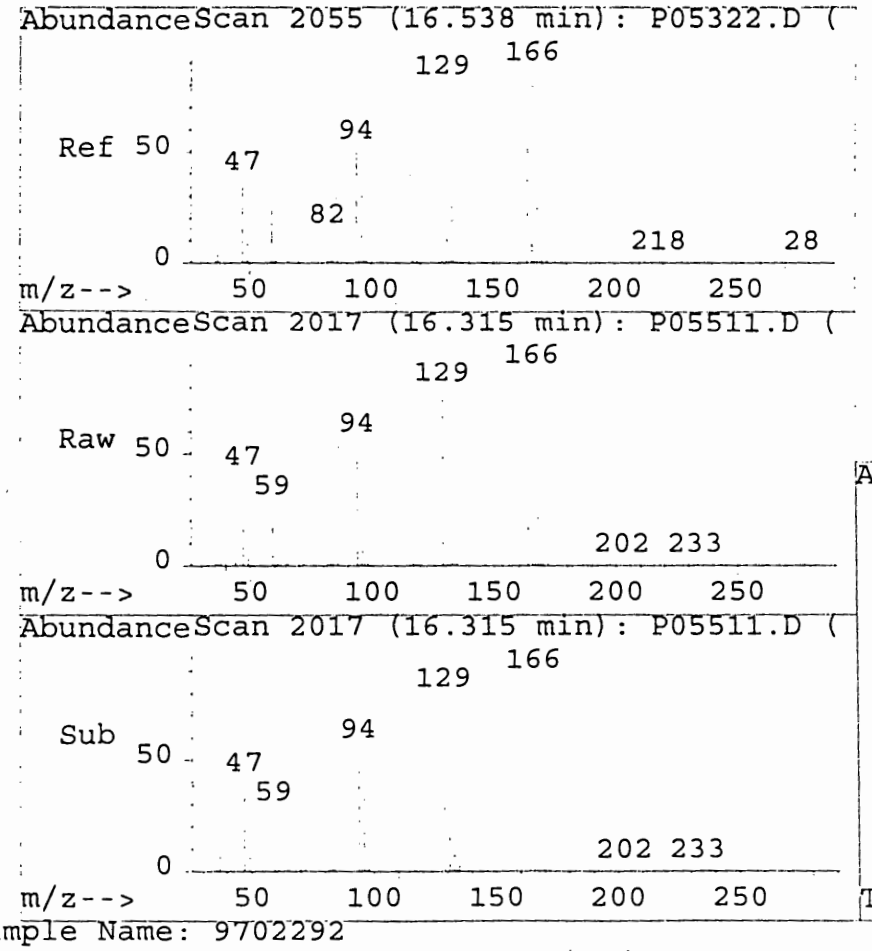


#36
Toluene
Concen: 2.18 UG/L
RT: 15.17 min Scan# 1817
Delta R.T. 0.08 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:91 Resp: 11435

Ion	Ratio	Lower	Upper
91	100		
92	52.6	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

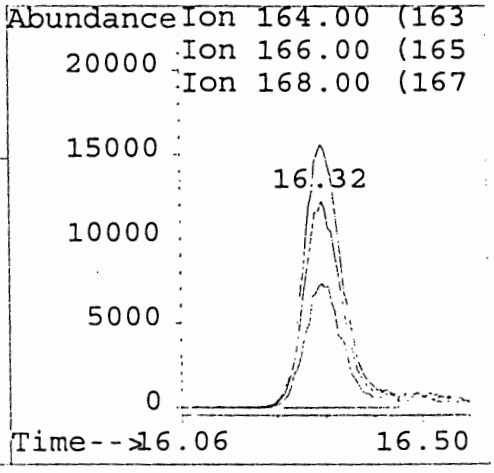




#37
Tetrachloroethene
Concen: 19.56 UG/L
RT: 16.32 min Scan# 2017
Delta R.T. 0.06 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

Tgt Ion:164 Resp: 60270

Ion	Ratio	Lower	Upper
164	100		
166	127.5	109.5	149.5
168	59.9	42.4	82.4
0	0.0	0.0	0.0



Sample Name: 9702292
Misc. Info: B60228 H5970-3 1/27/97 5.0ML
P05511.D CLPW.M Tue Feb 11 08:57:59 1997 MASSPEC1

V 0060

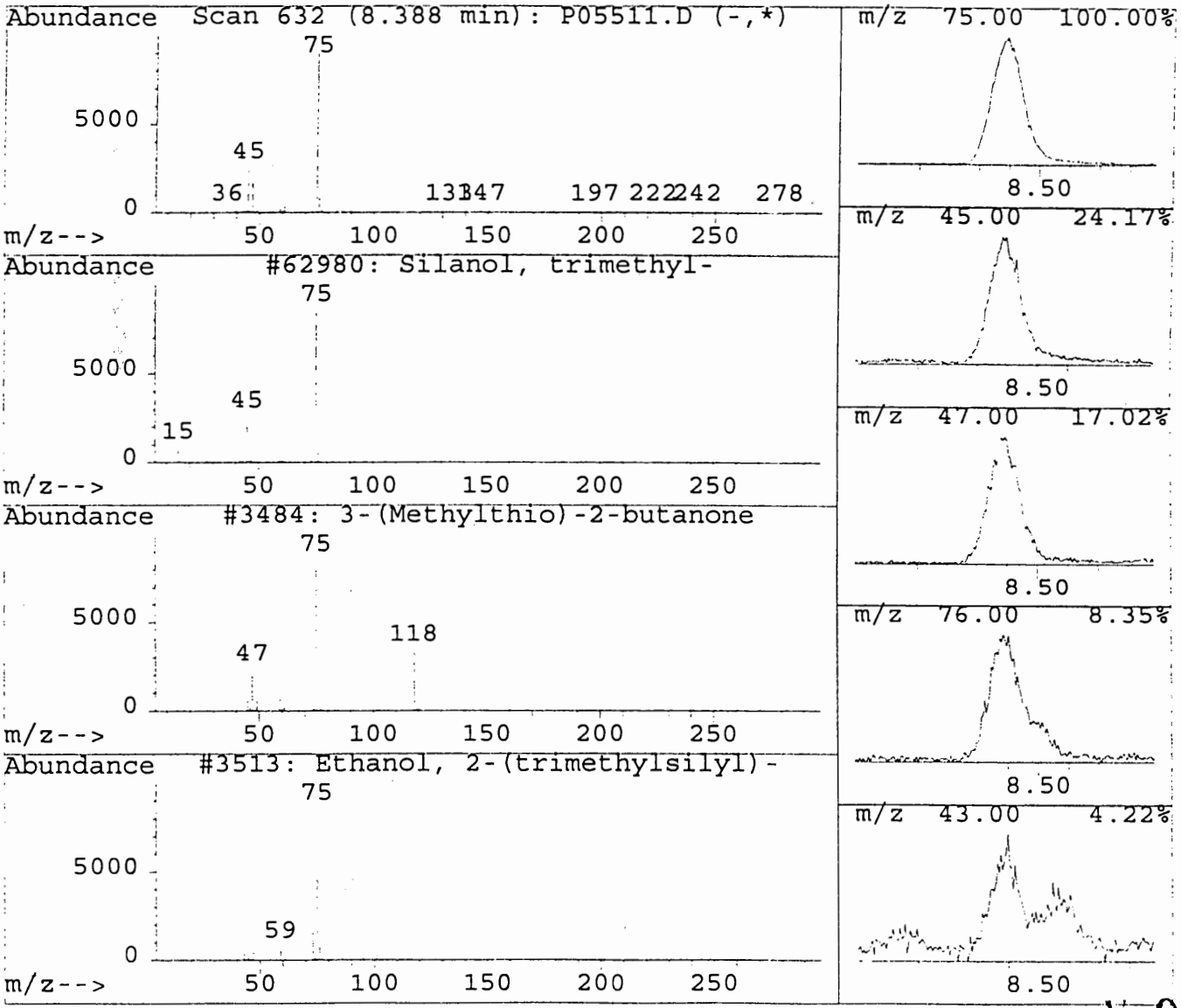
Data File : C:\HPCHEM\1\DATA\P05511.D
Acq On : 28 Jan 97 19:19
Sample : 9702292
Misc : B60228 H5970-3 1/27/97 5.0ML

Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.39	15.91 UG/L	166858	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	87
2	3-(Methylthio)-2-butanone	118	C5H10OS	053475-15-3	50
3	Ethanol, 2-(trimethylsilyl)-	118	C5H14OSi	002916-68-9	38
4	Acetic acid, (trimethylsilyl)-	132	C5H12O2Si	002345-38-2	38
5	Phorate	260	C7H17O2PS3	000298-02-2	23



V 0061

Library Search Compound Report

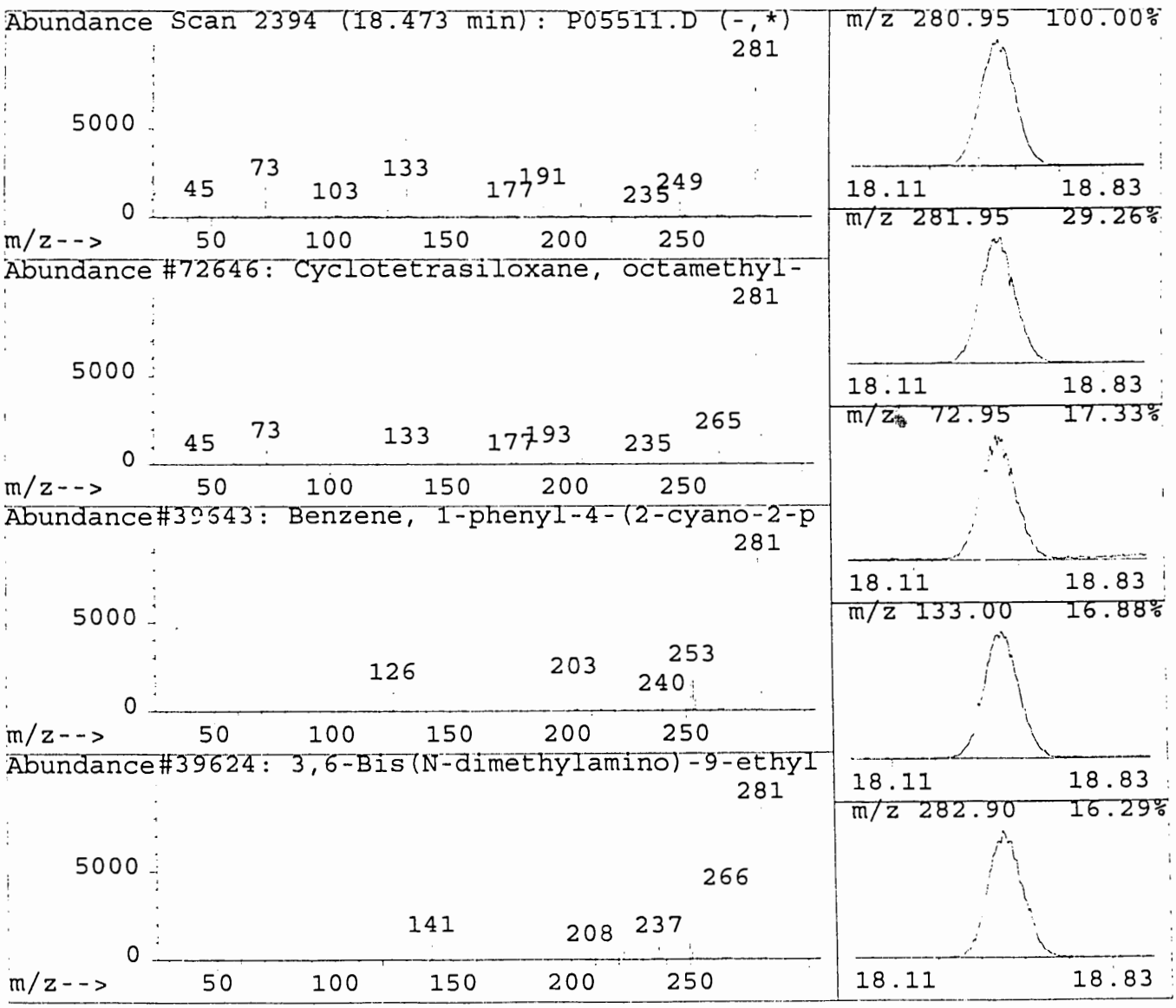
Data File : C:\HPCHEM\1\DATA\P05511.D
Acq On : 28 Jan 97 19:19
Sample : 9702292
Misc : B60228 H5970-3 1/27/97 5.0ML

Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.47	31.16 UG/L	458376	Chlorobenzene-d5	17.68

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	56
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	28
4	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	12
5	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	9



V 0062

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B60229

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702293

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05512.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Monitoring well

NC-17

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	3	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	5	J
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	41	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60229

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702293

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05512.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 2

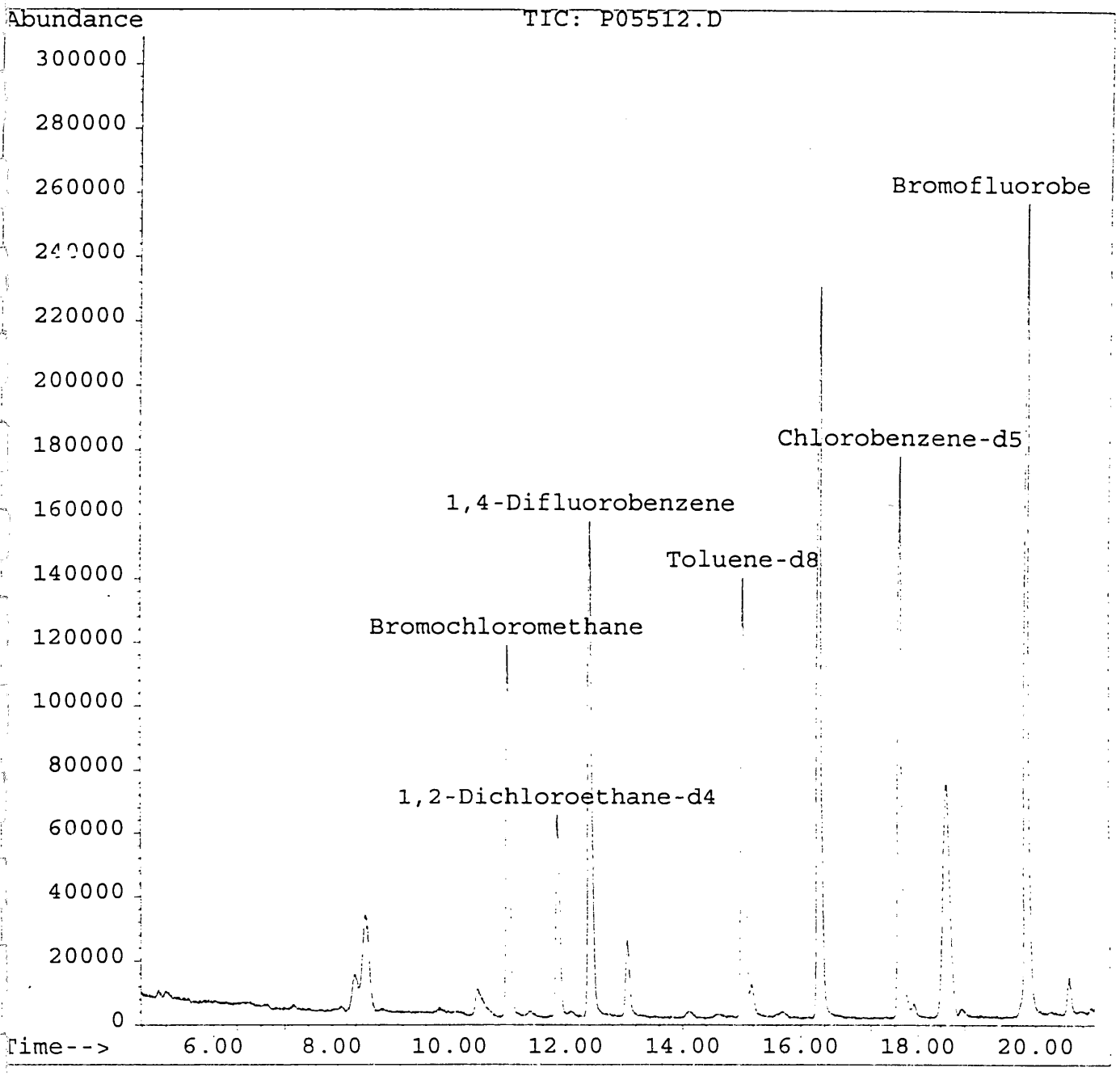
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	6	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	8.57	6	JN

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 7:49 pm
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:43 1997

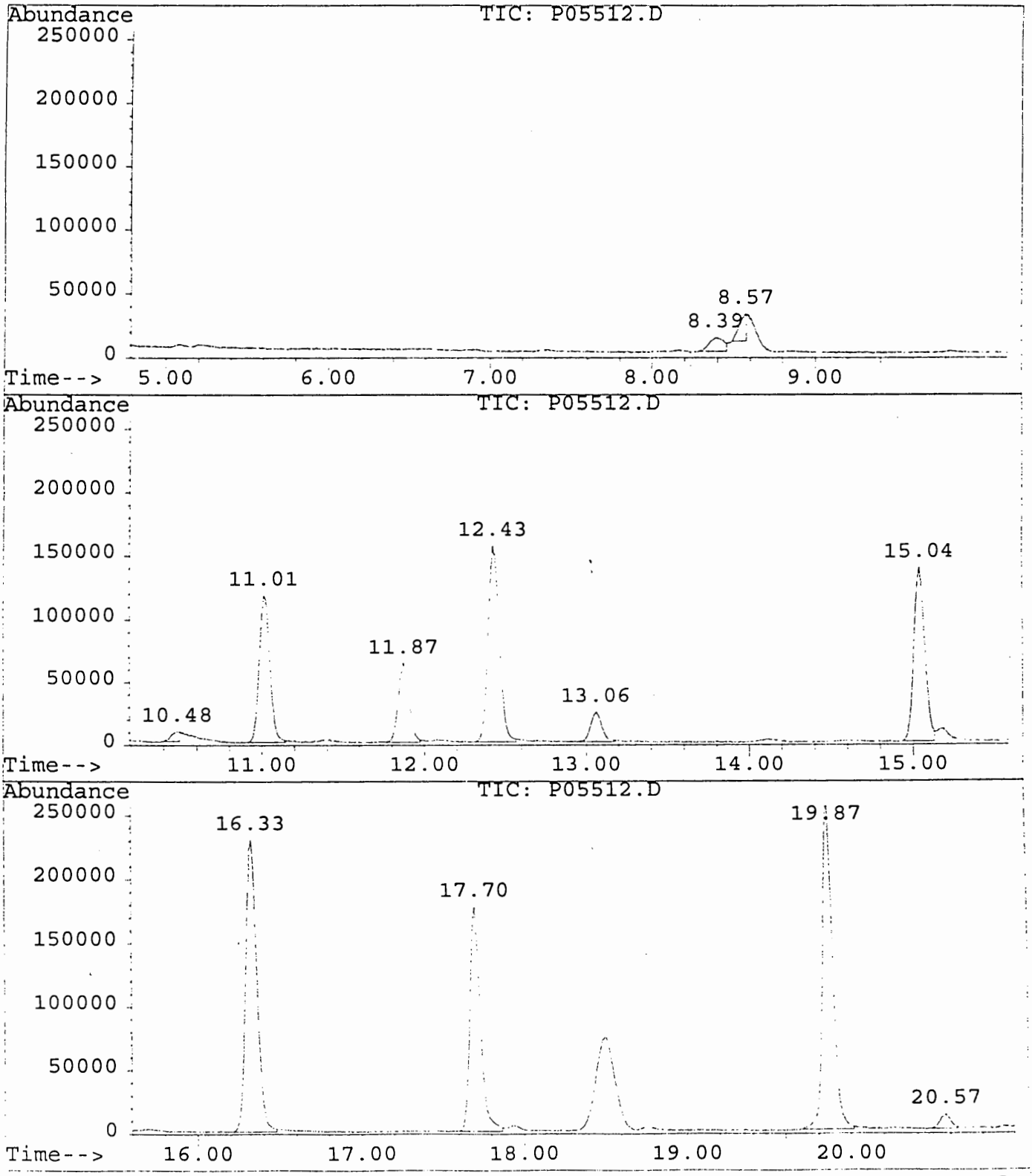
Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0065

File : C:\HPCHEM\1\DATA\P05512.D
Operator : GLENN
Acquired : 28 Jan 97 19:49 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702293
Misc Info : B60229 H5970-3 1/27/97 5.0ML
Vial Number: 1



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 19:49
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:43 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.01	128	69756	50.00	UG/L	0.06
21) 1,4-Difluorobenzene	12.43	114	263841	50.00	UG/L	0.07
33) Chlorobenzene-d5	17.70	117	208940	50.00	UG/L	0.07
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.87	65	112724	53.15	UG/L	106.30%
34) Toluene-d8	15.04	98	217957	52.12	UG/L	104.23%
43) Bromofluorobenzene	19.87	95	214469	53.34	UG/L	106.68%
Target Compounds						Qvalue
8) Acetone	7.35	43	5346	9.83	UG/L	65
14) cis-,1,2-Dichloroethene	10.48	96	5336	1.96	UG/L #	81
15) 1,2-Dichloroethene (total)	10.48	96	9565m	3.38	UG/L	44
24) Trichloroethene	13.06	130	17087	5.22	UG/L	95
36) Toluene	15.19	91	14537	2.69	UG/L	97
37) Tetrachloroethene	16.33	164	128718	40.57	UG/L	93

GKB 2/11/97

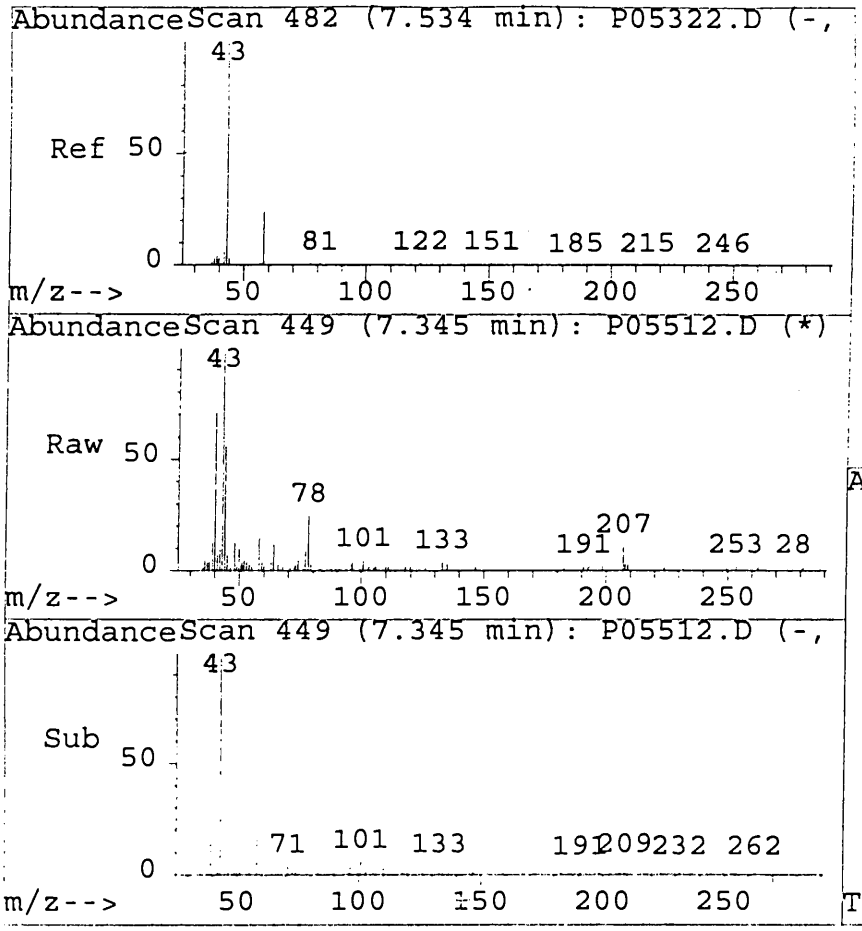
(#) = qualifier out of range (m) = manual integration

V 0067

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 19:49
Data File: C:\HPCHEM\1\DATA\P05512.D
Name: 9702293
Misc: B60229 H5970-3 1/27/97 5.0ML
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

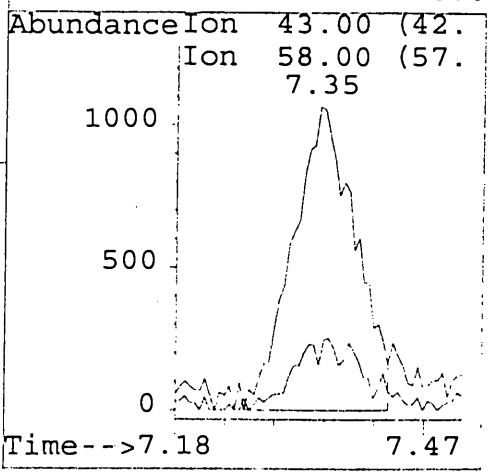
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Silanol, trimethyl-	8.39	6.4	UG/L	67480	ISTD01	11.01	526917	50.0
Propane, 2-methoxy-2	8.57	6.1	UG/L	64688	ISTD01	11.01	526917	50.0

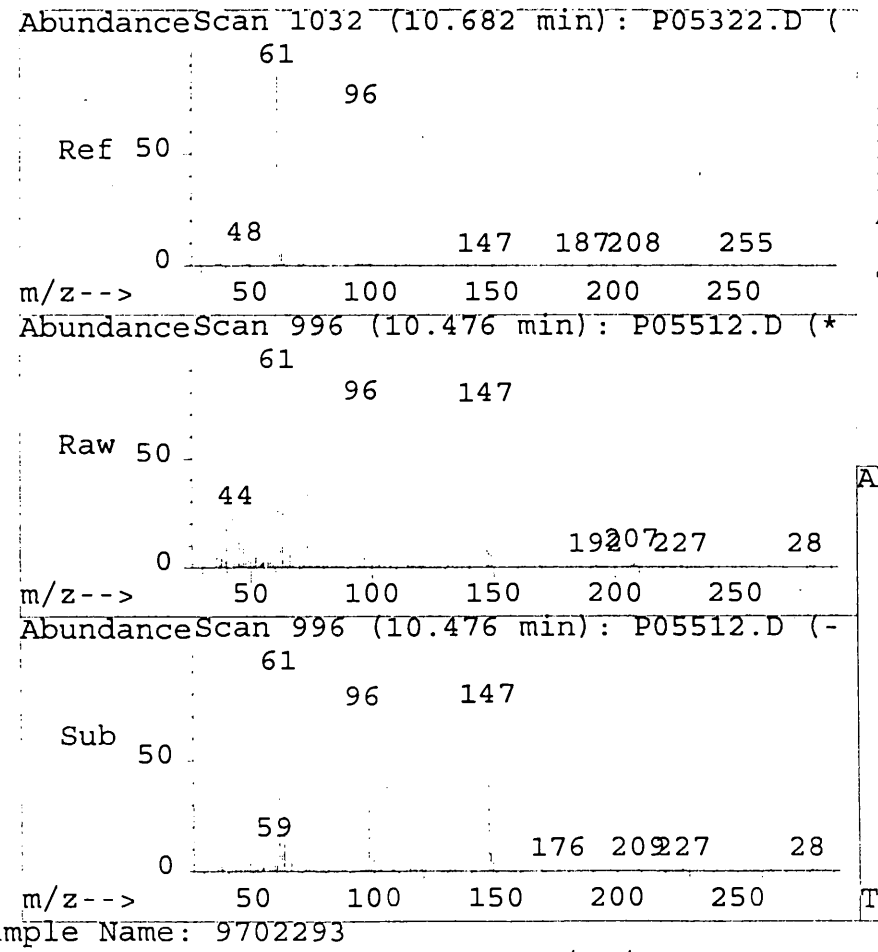


#8
Acetone
Concen: 9.83 UG/L
RT: 7.35 min Scan# 449
Delta R.T. 0.01 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

Tgt Ion:43 Resp: 5346

Ion	Ratio	Lower	Upper
43	100		
58	10.9	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

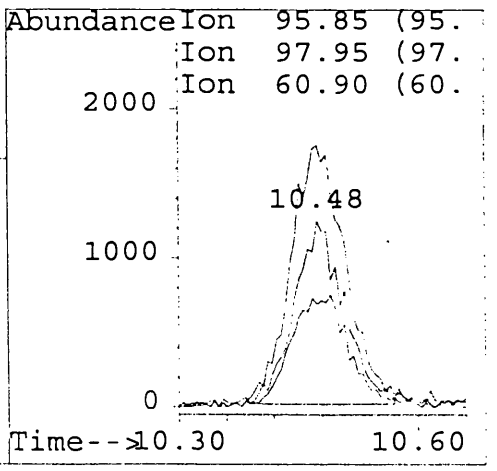




#14
cis-,1,2-Dichloroethene
Concen: 1.96 UG/L
RT: 10.48 min Scan# 996
Delta R.T. 0.06 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

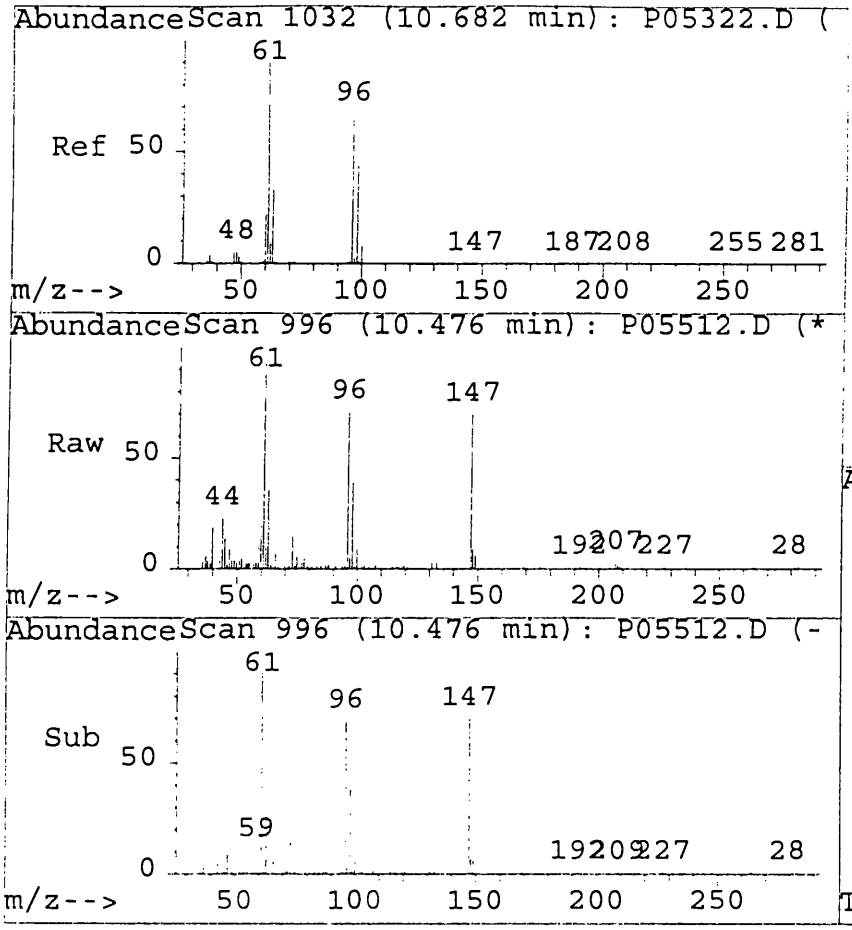
Tgt Ion:95.85 Resp: 5336

Ion	Ratio	Lower	Upper
96	100		
98	71.9	53.1	79.6
61	161.4	105.0	157.5#
0	0.0	0.0	0.0



Sample Name: 9702293
Misc. Info: B60229 H5970-3 1/27/97 5.0ML
P05512.D CLPW.M Tue Feb 11 08:58:16 1997 MASSPEC1 Page 3

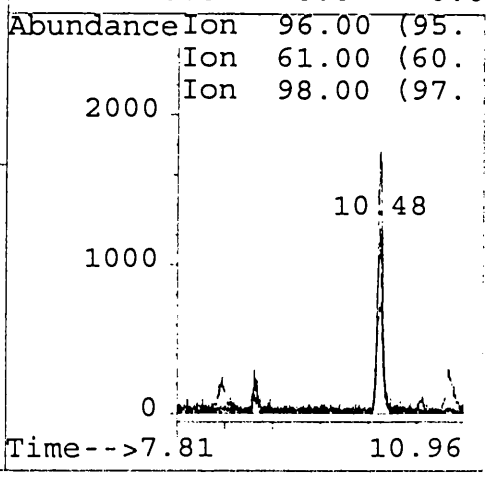
V 0063

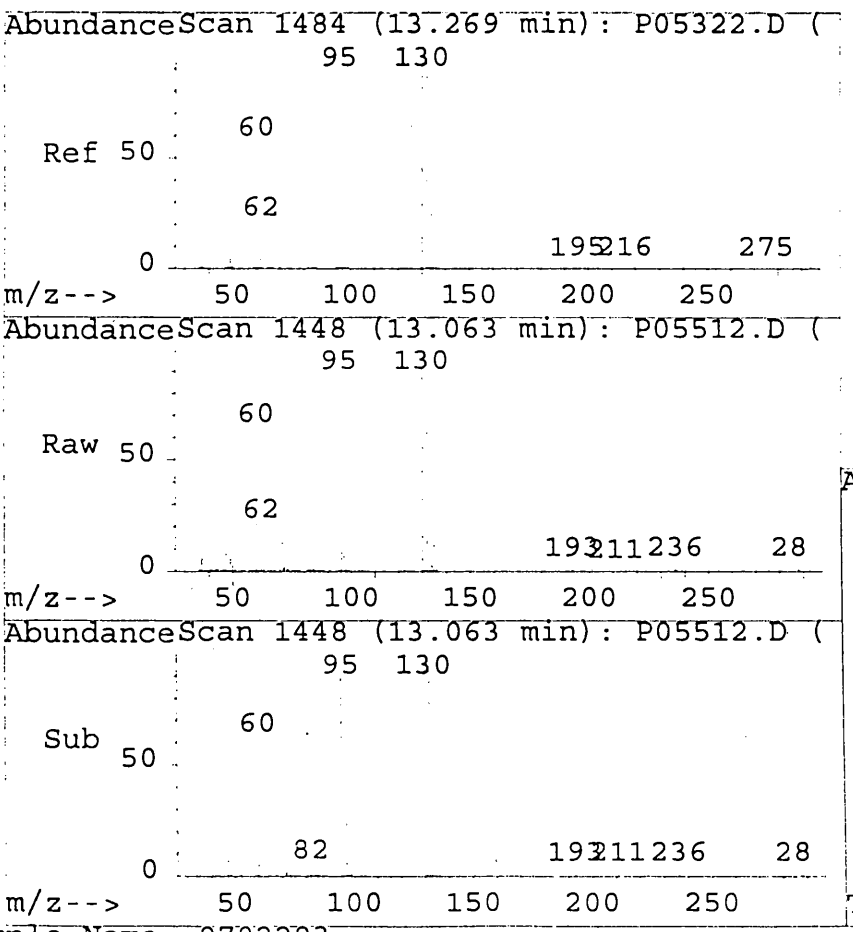


#15
1,2-Dichloroethene (total)
Concen: 3.38 UG/L m
RT: 10.48 min Scan# 996
Delta R.T. 1.67 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

Tgt Ion:96 Resp: 9565

Ion	Ratio	Lower	Upper
96	100		
61	140.8	111.6	151.6
98	55.3	44.6	84.6
0	0.0	0.0	0.0

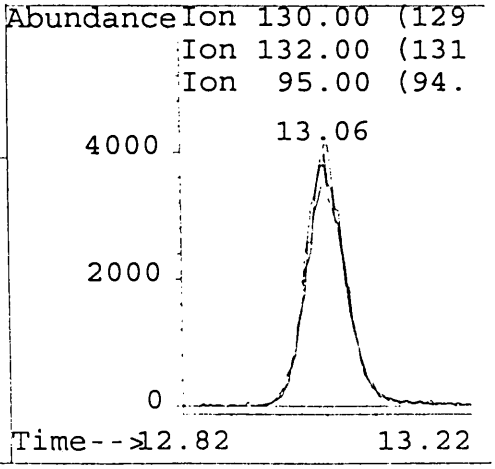




#24
Trichloroethene
Concen: 5.22 UG/L
RT: 13.06 min Scan# 1448
Delta R.T. 0.08 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

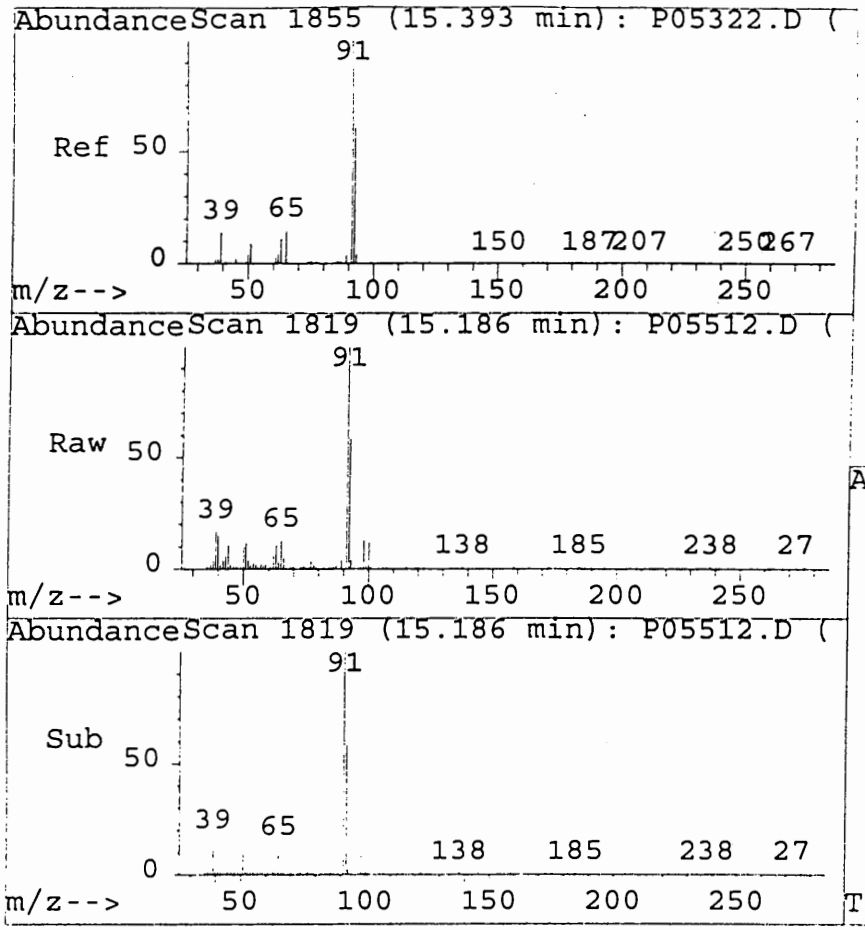
Tgt Ion:130 Resp: 17087

Ion	Ratio	Lower	Upper
130	100		
132	95.2	82.0	122.0
95	103.6	80.0	120.0
0	0.0	0.0	0.0



Sample Name: 9702293
Misc. Info: B60229 H5970-3 1/27/97 5.0ML
P05512.D CLPW.M Tue Feb 11 08:58:20 1997 MASSPEC1

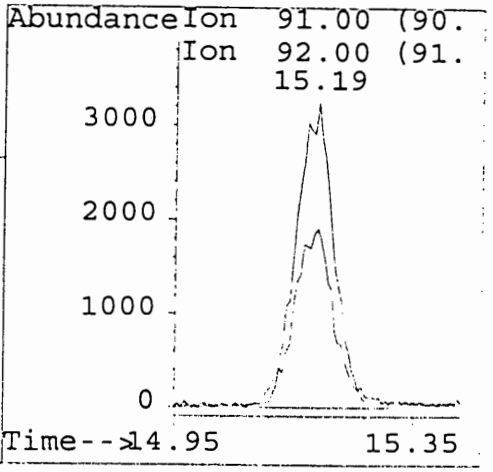
V 0070

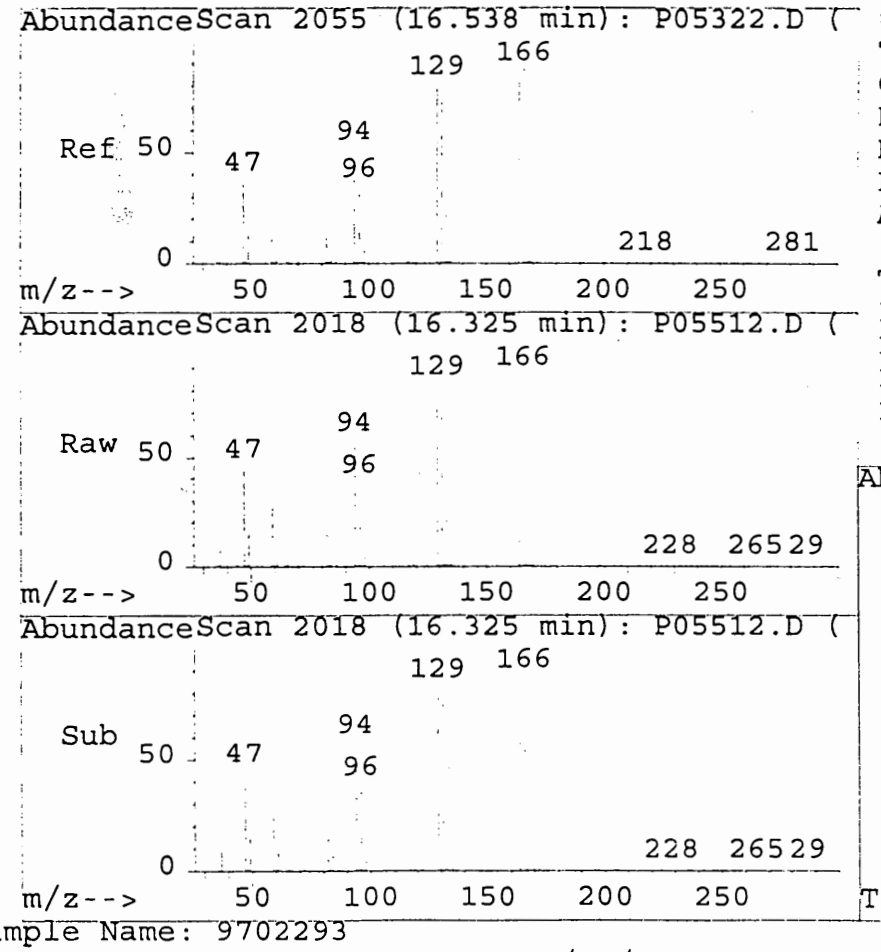


#36
Toluene
Concen: 2.69 UG/L
RT: 15.19 min Scan# 1819
Delta R.T. 0.09 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

Tgt Ion:91 Resp: 14537

Ion	Ratio	Lower	Upper
91	100		
92	58.1	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

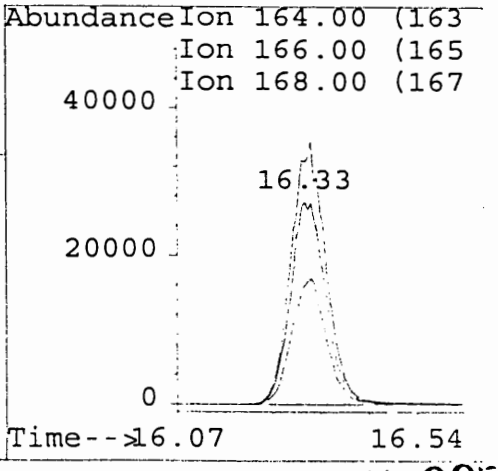




#37
Tetrachloroethene
Concen: 40.57 UG/L
RT: 16.33 min Scan# 2018
Delta R.T. 0.07 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

Tgt Ion:164 Resp: 128718

Ion	Ratio	Lower	Upper
164	100		
166	120.1	109.5	149.5
168	59.0	42.4	82.4
0	0.0	0.0	0.0



Sample Name: 9702293
Misc. Info: B60229 H5970-3 1/27/97 5.0ML

Library Search Compound Report

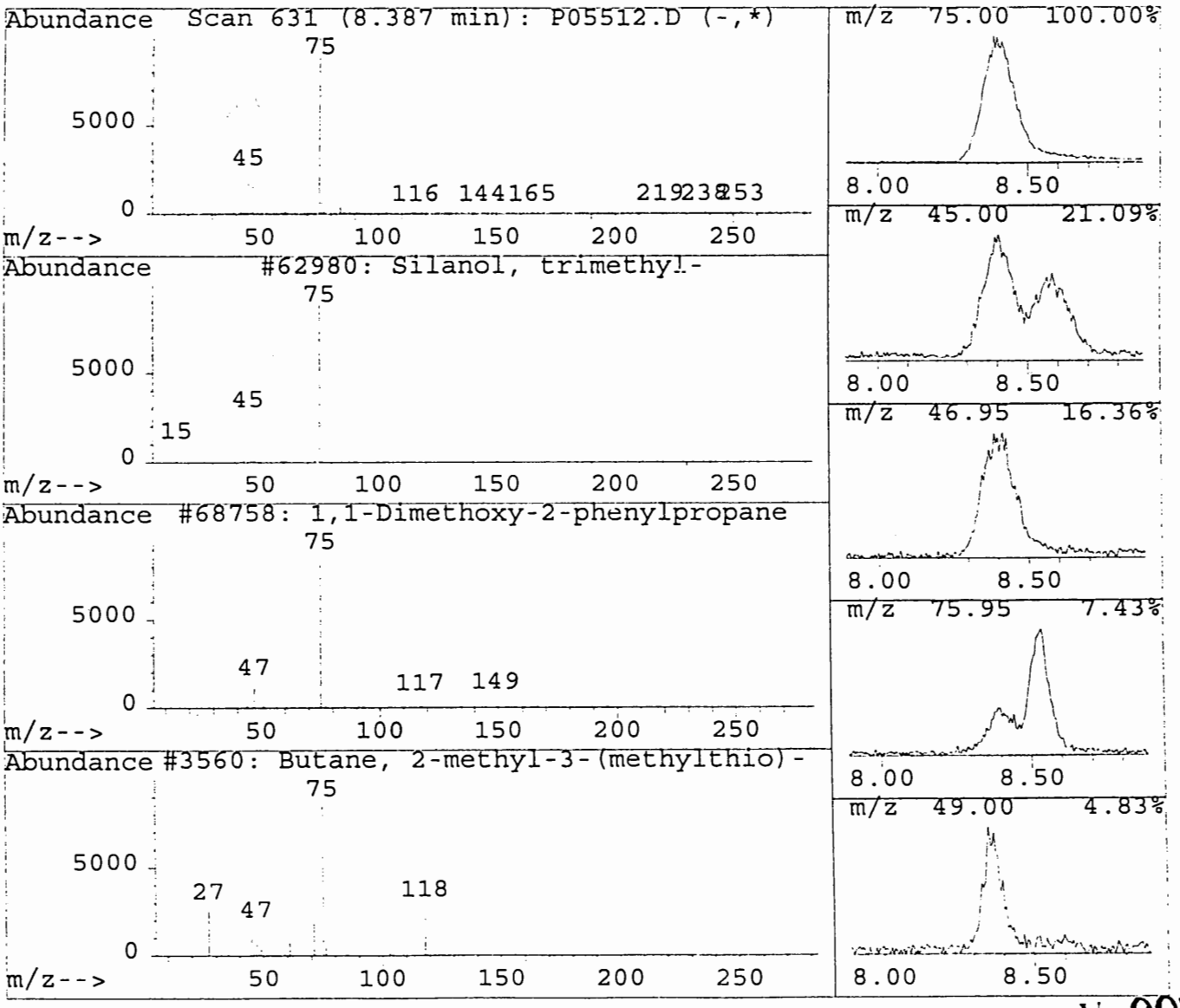
Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 19:49
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.39	6.40 UG/L	67480	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	49
2	1,1-Dimethoxy-2-phenylpropane	180	C11H16O2	000090-87-9	42
3	Butane, 2-methyl-3-(methylthio)-	118	C6H14S	053897-51-1	40
4	Acetic acid, (trimethylsilyl)-	132	C5H12O2Si	002345-38-2	40
5	Ethane, 1,1-bis(methylthio)-	122	C4H10S2	007379-30-8	38



V 0072

Library Search Compound Report

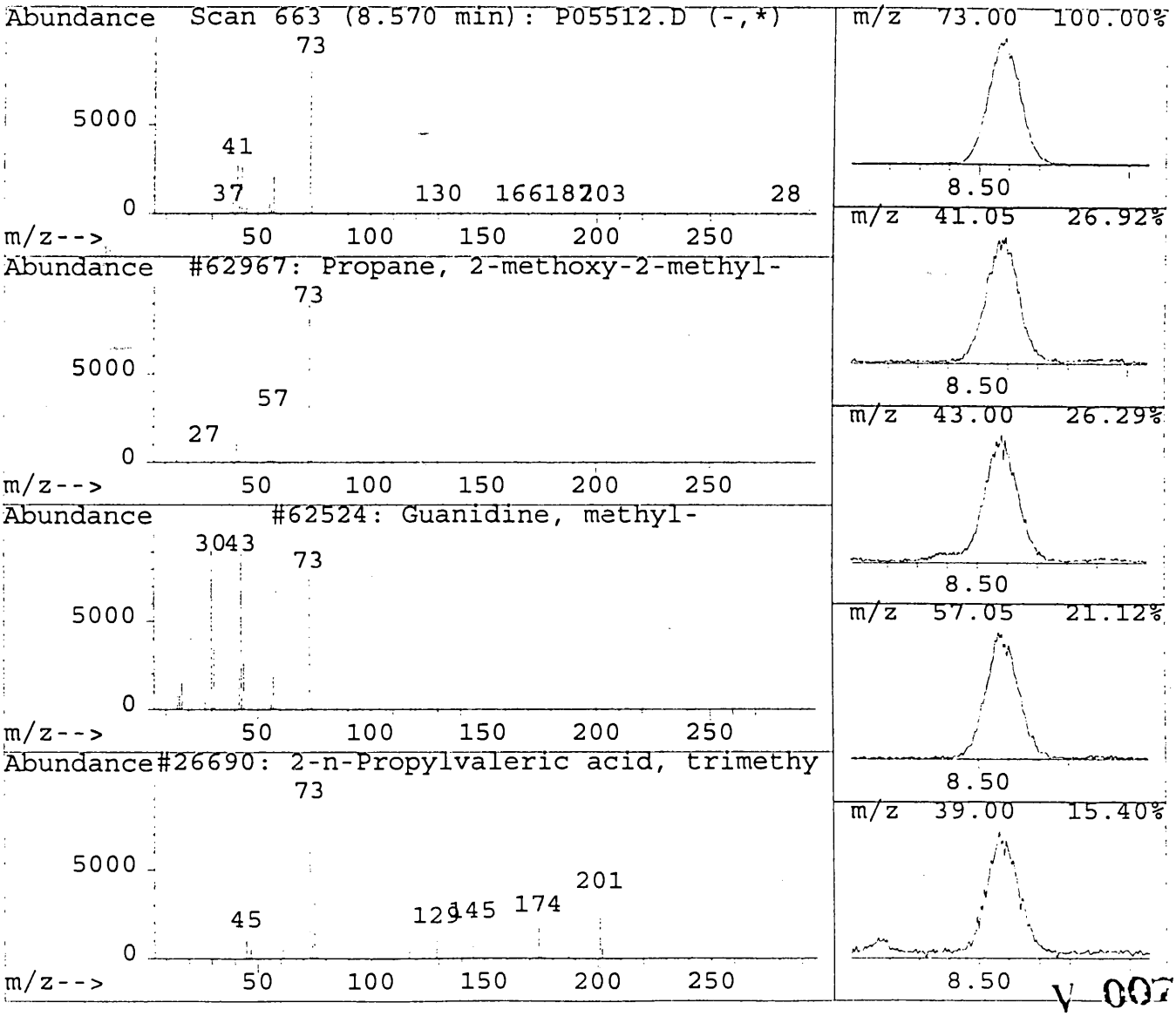
Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 19:49
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.57	6.14 UG/L	64688	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	56
2	Guanidine, methyl-	73	C2H7N3	000471-29-4	7
3	2-n-Propylvaleric acid, trimethylsi	216	C11H24O2Si	000000-00-0	4
4	N-Ethylformamide	73	C3H7NO	000627-45-2	4
5	1,3-Dioxolane, 2-(1-methylethyl)-	116	C6H12O2	000822-83-3	4



V 0073

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B60230

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702294

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05513.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	150	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	40	
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	J
71-43-2	Benzene	2	J
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	9	J
591-78-6	2-Hexanone	5	J
127-18-4	Tetrachloroethene	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	1	J
1330-20-7	Xylene (total)	2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60230

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: 9702294

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05513.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

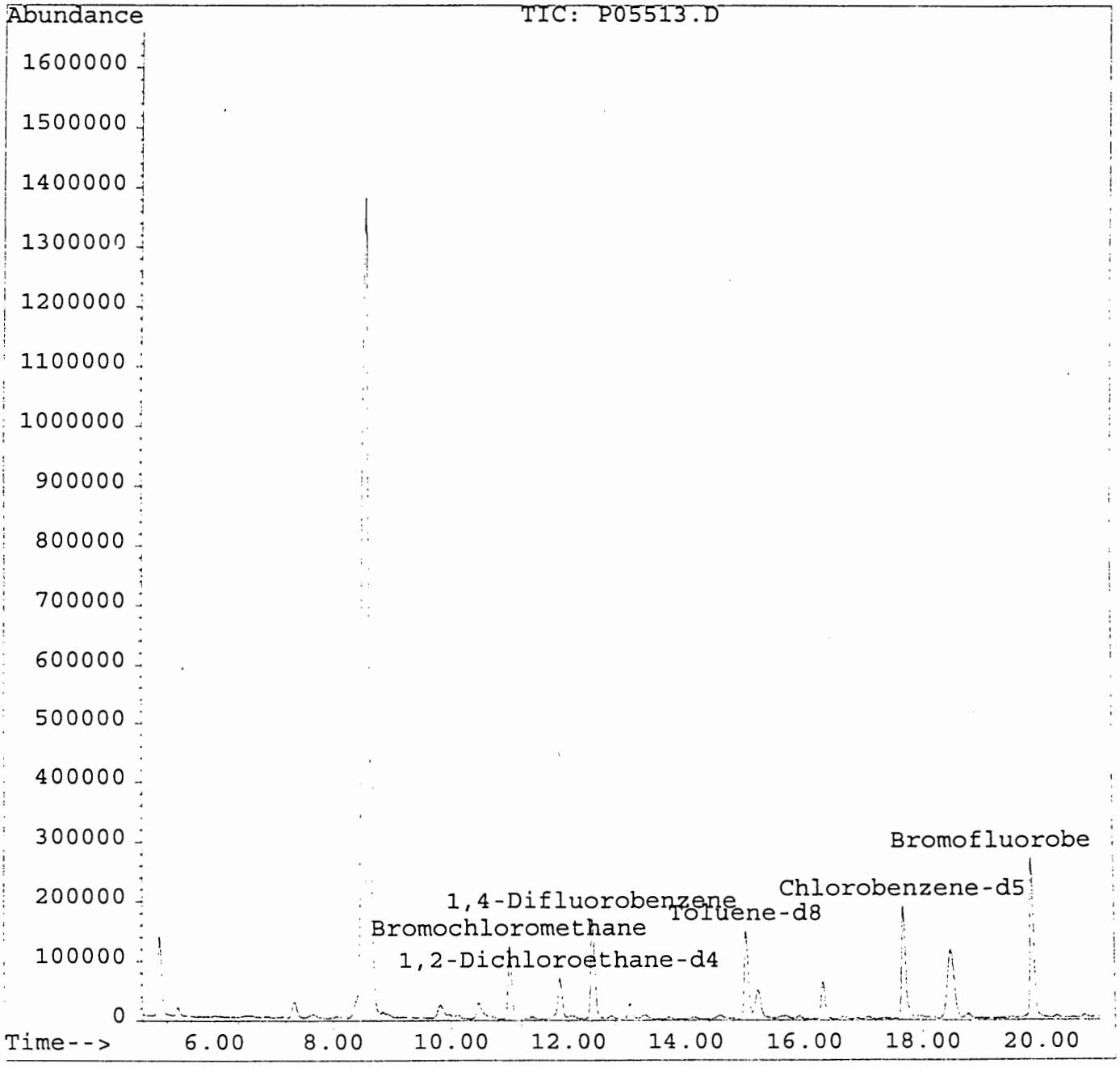
Number TICs found: 5

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000115-11-7	1-Propene, 2-methyl-	5.07	52	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	8.57	990	JN
3.	unknown	9.82	14	J
4. 000590-50-1	2-Pentanone, 4,4-dimethyl-	15.22	17	JN
5. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	25	JN

Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 8:18 pm
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:46 1997

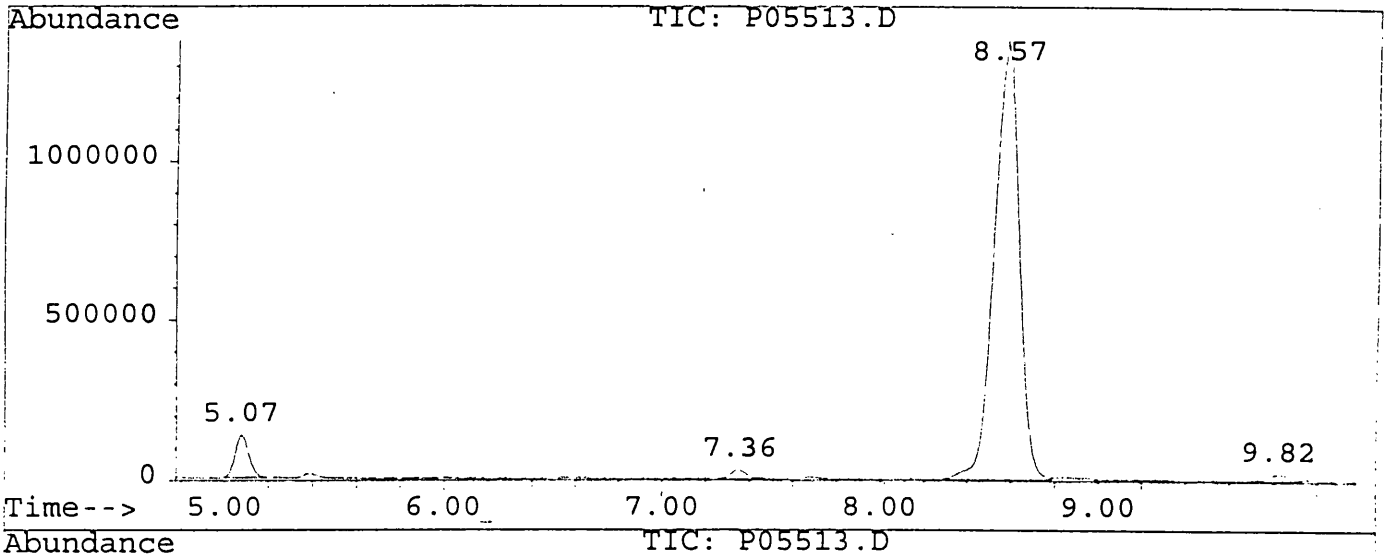
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

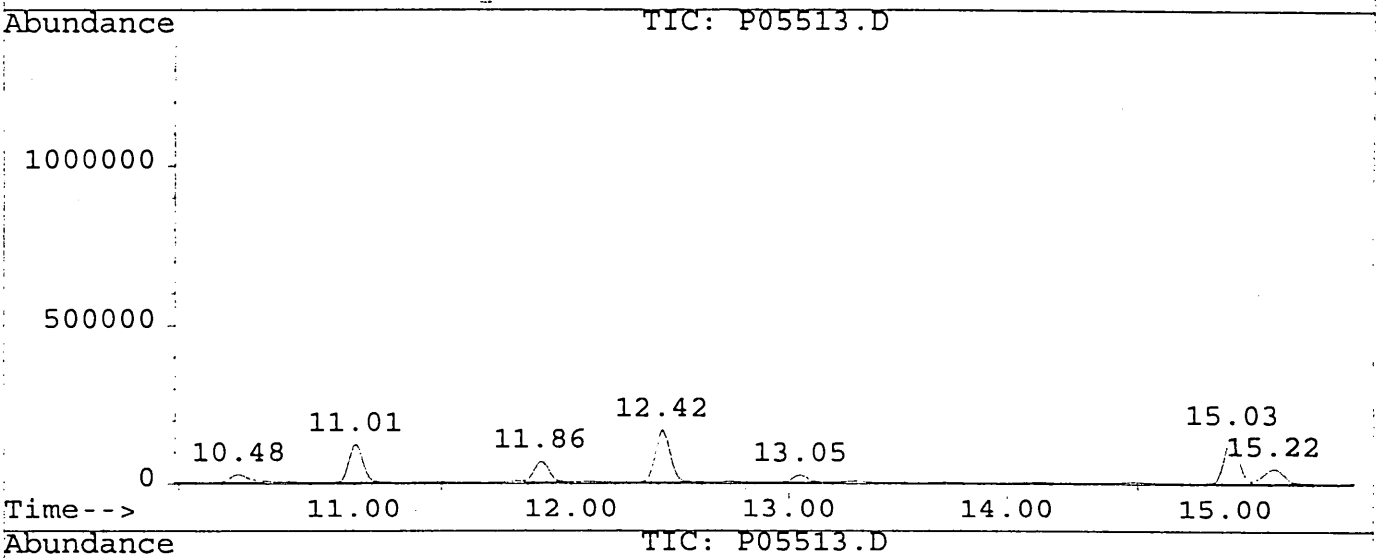
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration

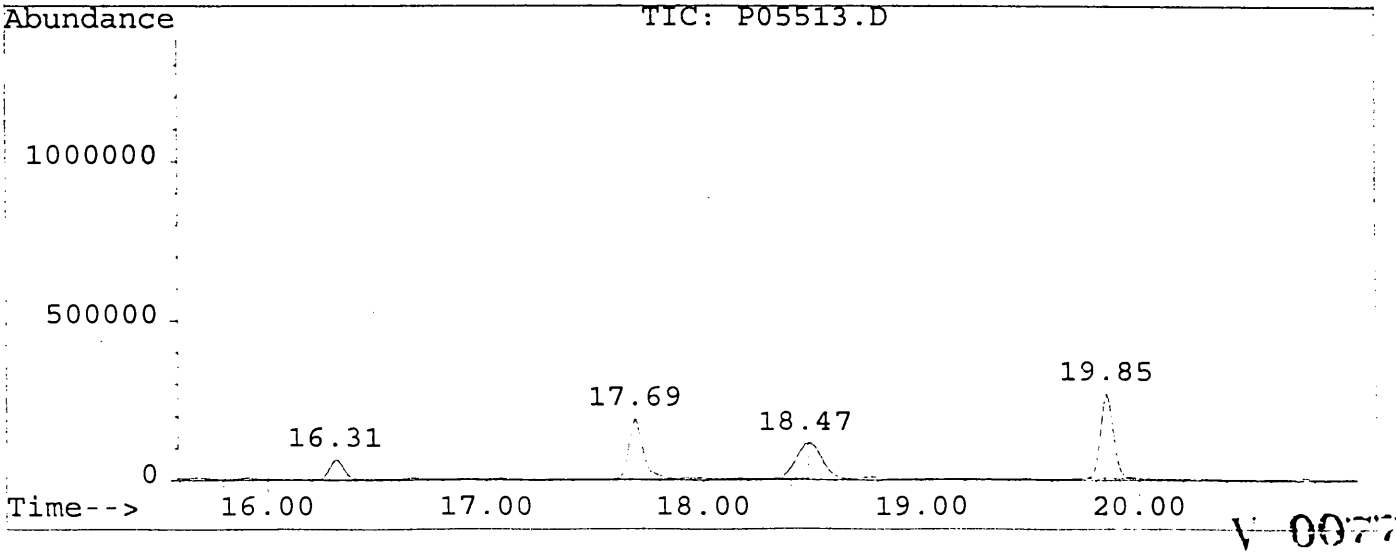


V 0076

File : C:\HPCHEM\1\DATA\P05513.D
Operator : GLENN
Acquired : 28 Jan 97 20:18 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702294
Misc Info : B60230 H5970-3 1/27/97 5.0ML
Vial Number: 2







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05513.D Vial: 2
Acq On : 28 Jan 97 20:18 Operator: GLENN
Sample : 9702294 Inst : 5970 - In
Misc : B60230 H5970-3 1/27/97 5.0ML Multiplr: 1.00
Quant Time: Feb 11 8:46 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.01	128	71143	50.00	UG/L	0.06
21) 1,4-Difluorobenzene	12.42	114	285137	50.00	UG/L	0.06
33) Chlorobenzene-d5	17.69	117	223068	50.00	UG/L	0.06
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.86	65	116764	53.98	UG/L	107.97%
34) Toluene-d8	15.03	98	225307	50.46	UG/L	100.92%
43) Bromofluorobenzene	19.85	95	222186	51.76	UG/L	103.52%
Target Compounds						Qvalue
8) Acetone	7.35	43	85785	154.64	UG/L	97
13) trans-1,2-Dichloroethene	8.84	96	4807	1.68	UG/L	97
14) cis-,1,2-Dichloroethene	10.46	96	21995	7.93	UG/L	90
15) 1,2-Dichloroethene (total)	10.46	96	30168m	10.46	UG/L	91
20) 2-Butanone	10.10	43	21562	39.82	UG/L	95
24) Trichloroethene	13.05	130	15889	4.50	UG/L	92
25) Benzene	12.09	78	8205	1.46	UG/L	86
35) 4-Methyl-2-Pentanone	14.15	43	7268m	8.69	UG/L	97
36) Toluene	15.17	91	19489	3.37	UG/L	100
37) Tetrachloroethene	16.31	164	34532	10.20	UG/L	100
38) 2-Hexanone	15.60	43	4340	5.04	UG/L	84
41) Xylene (total)	18.74	106	5957m	2.41	UG/L	85
42) Styrene	18.78	104	4354	1.09	UG/L	88

GKB 2/11/97

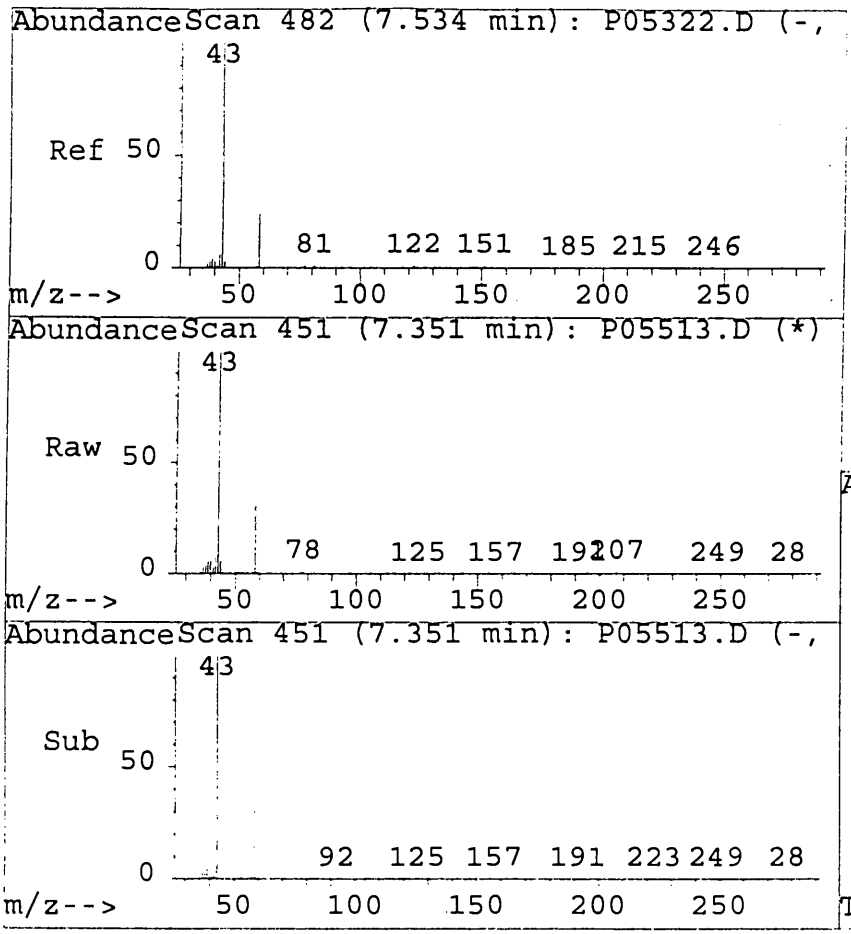
(#) = qualifier out of range (m) = manual integration

V 0075

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 20:18
Data File: C:\HPCHEM\1\DATA\P05513.D
Name: 9702294
Misc: B60230 H5970-3 1/27/97 5.0ML
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

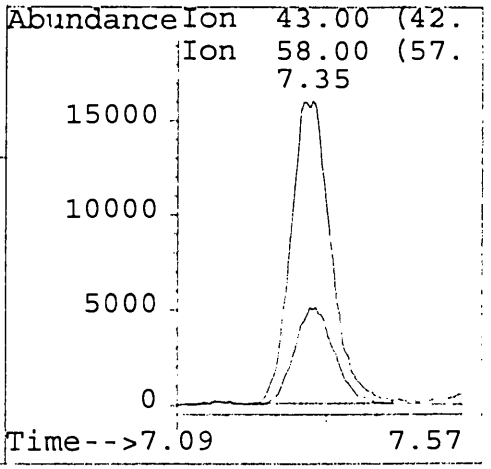
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propene, 2-methyl-	5.07	52.4	UG/L	577121	ISTD01	11.01	550350	50.0
Propane, 2-methoxy-2	8.57	993.0	UG/L	10930403	ISTD01	11.01	550350	50.0
3-Heptanone, 5-ethyl	9.82	13.9	UG/L	152553	ISTD01	11.01	550350	50.0
2-Pentanone, 4,4-dim	15.22	17.3	UG/L	303642	ISTD03	17.69	878803	50.0
Cyclotetrasiloxane,	18.47	25.4	UG/L	446134	ISTD03	17.69	878803	50.0

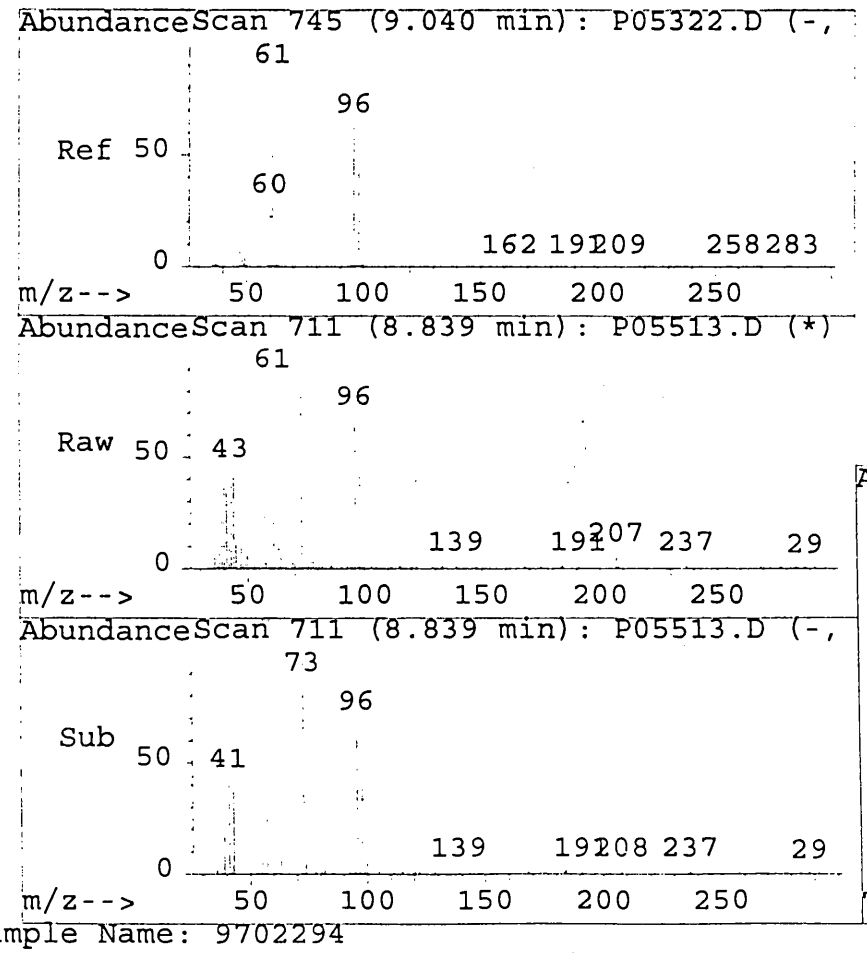


#8
Acetone
Concen: 154.64 UG/L
RT: 7.35 min Scan# 451
Delta R.T. 0.02 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:43 Resp: 85785

Ion	Ratio	Lower	Upper
43	100		
58	31.1	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

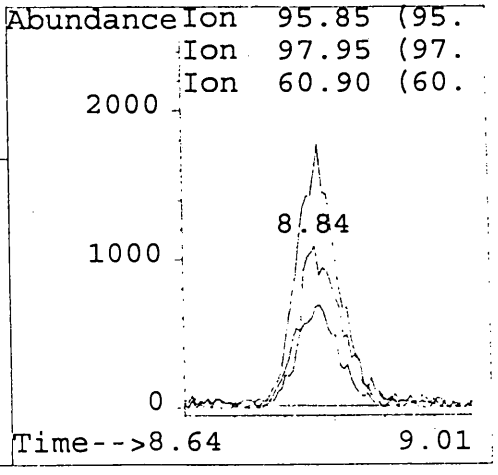




#13
trans-1,2-Dichloroethene
Concen: 1.68 UG/L
RT: 8.84 min Scan# 711
Delta R.T. 0.03 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

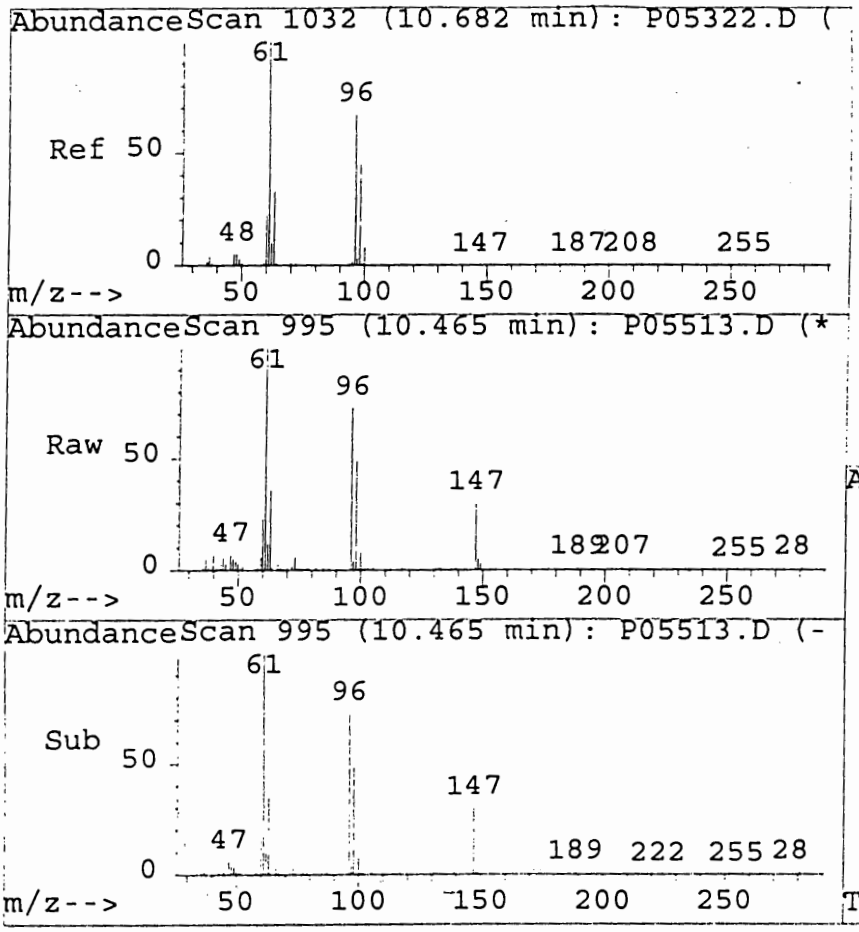
Tgt Ion:95.85 Resp: 4807

Ion	Ratio	Lower	Upper
96	100		
98	62.2	46.2	86.2
61	149.1	131.2	171.2
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:40 1997 MASSPEC1

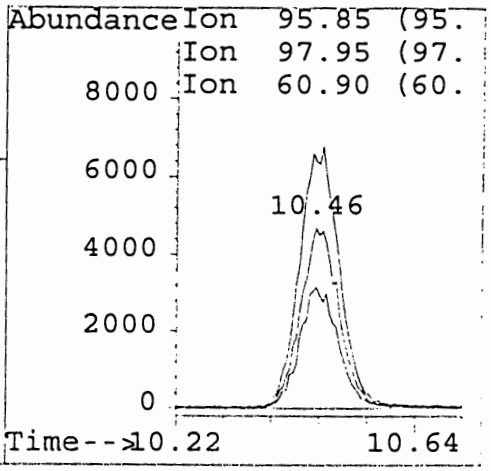
V 0050

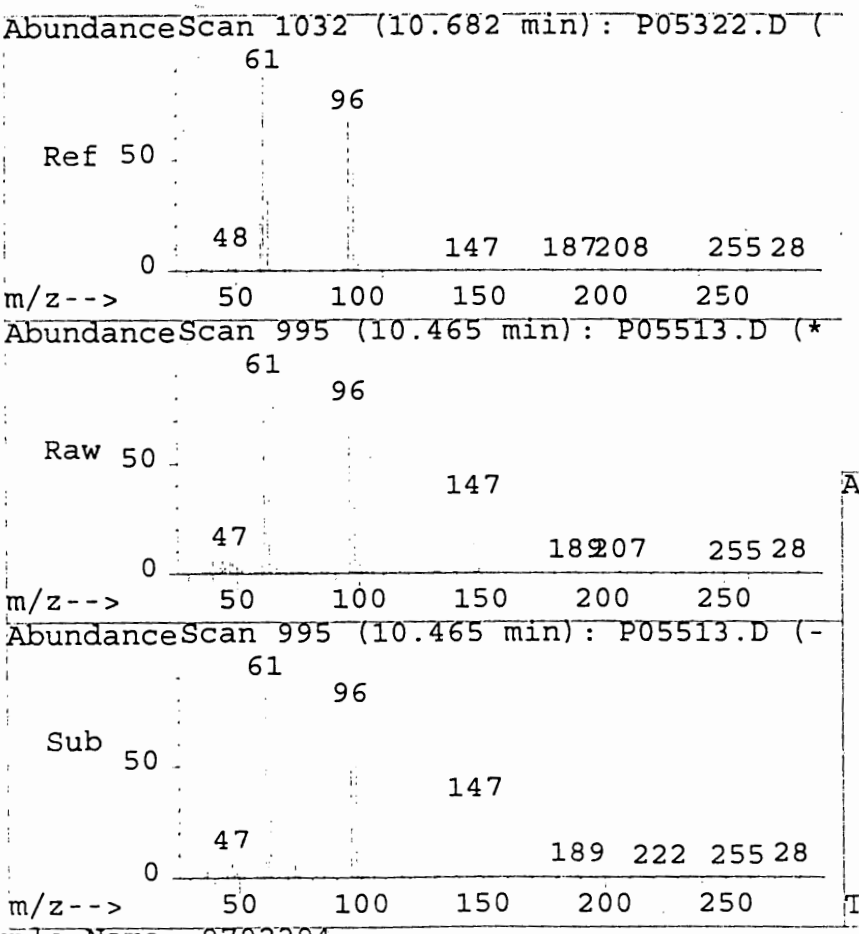


#14
cis-,1,2-Dichloroethene
Concen: 7.93 UG/L
RT: 10.46 min Scan# 995
Delta R.T. 0.05 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:95.85 Resp: 21995

Ion	Ratio	Lower	Upper
96	100		
98	67.7	53.1	79.6
61	147.2	105.0	157.5
0	0.0	0.0	0.0

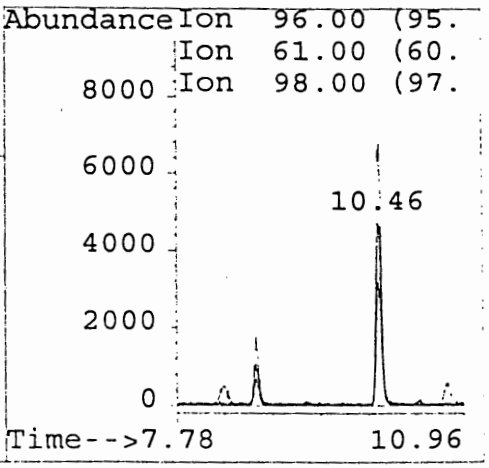




#15
1,2-Dichloroethene (total)
Concen: 10.46 UG/L m
RT: 10.46 min Scan# 995
Delta R.T. 1.66 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

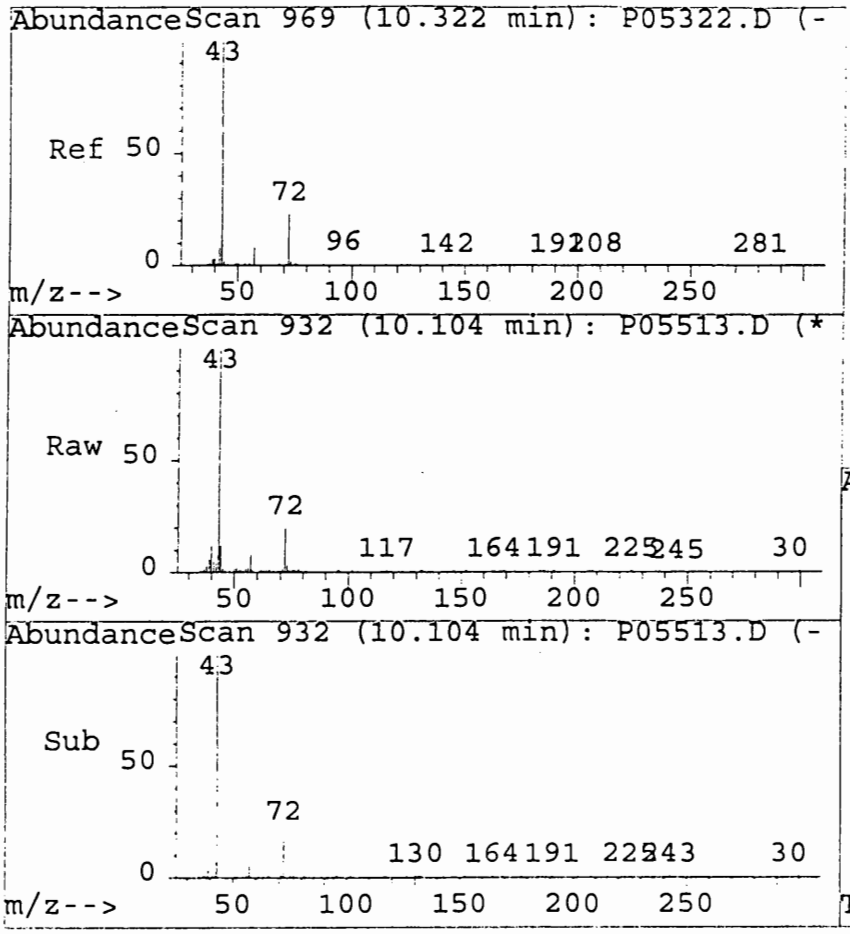
Tgt Ion:96 Resp: 30168

Ion	Ratio	Lower	Upper
96	100		
61	136.1	111.6	151.6
98	67.1	44.6	84.6
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:44 1997 MASSPEC1

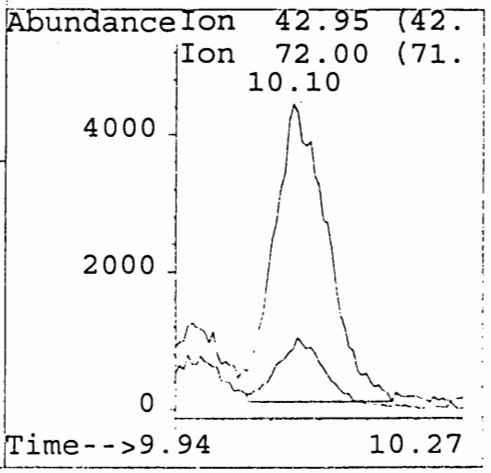
V 0081

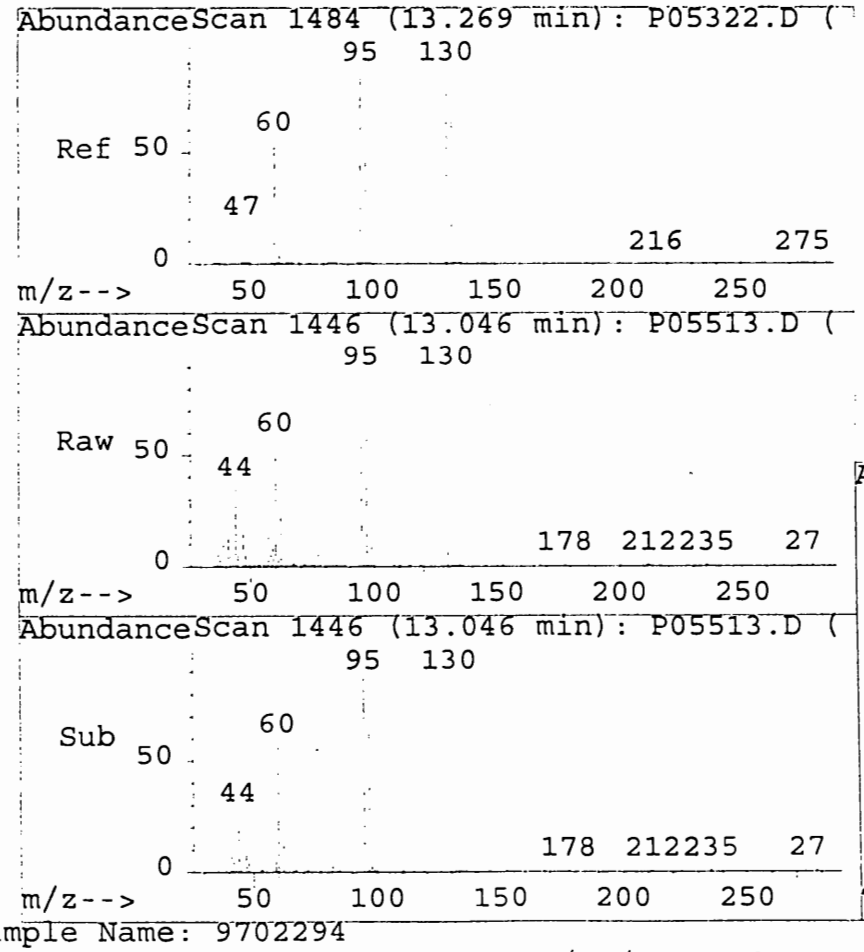


#20
2-Butanone
Concen: 39.82 UG/L
RT: 10.10 min Scan# 932
Delta R.T. 0.05 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:42.95 Resp: 21562

Ion	Ratio	Lower	Upper
43	100		
72	21.3	3.6	43.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

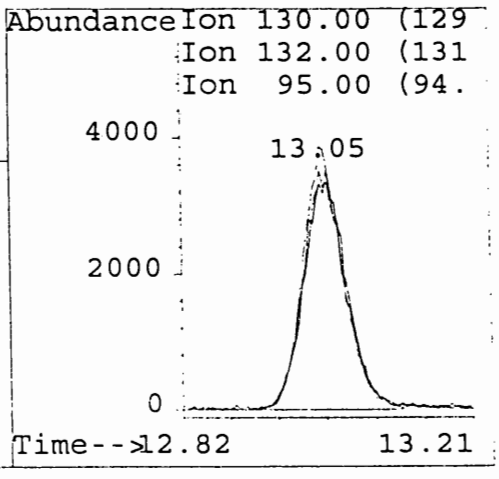




#24
Trichloroethene
Concen: 4.50 UG/L
RT: 13.05 min Scan# 1446
Delta R.T. 0.06 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

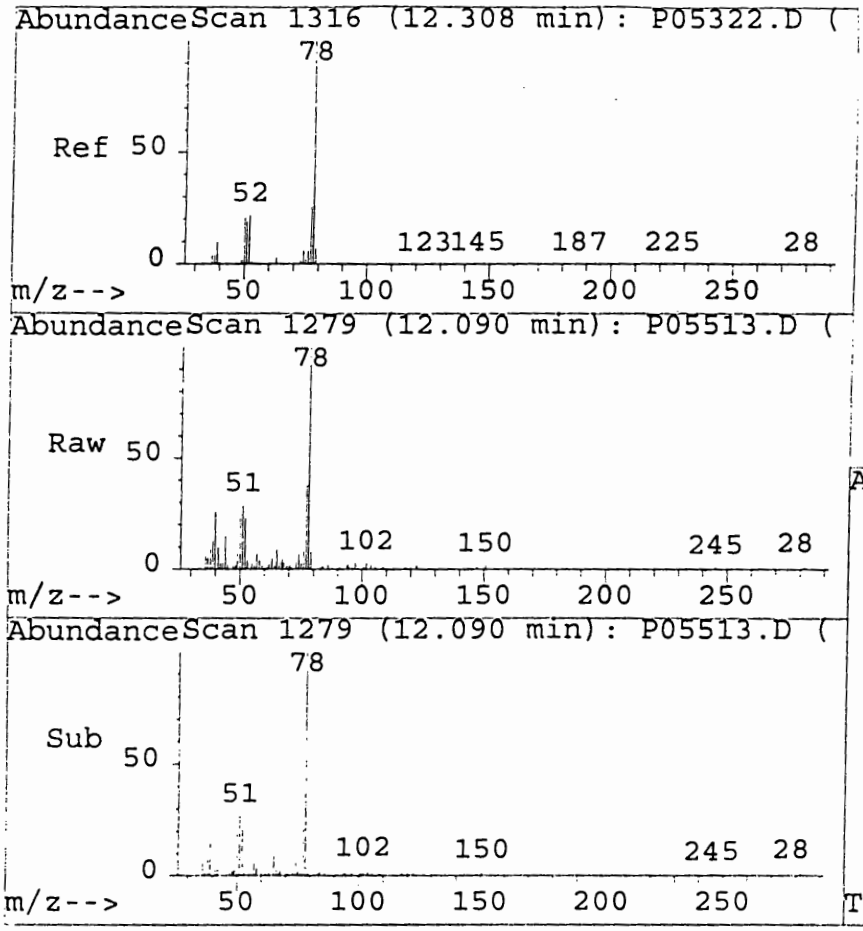
Tgt Ion:130 Resp: 15889

Ion	Ratio	Lower	Upper
130	100		
132	94.7	82.0	122.0
95	109.3	80.0	120.0
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:46 1997 MASSPEC1

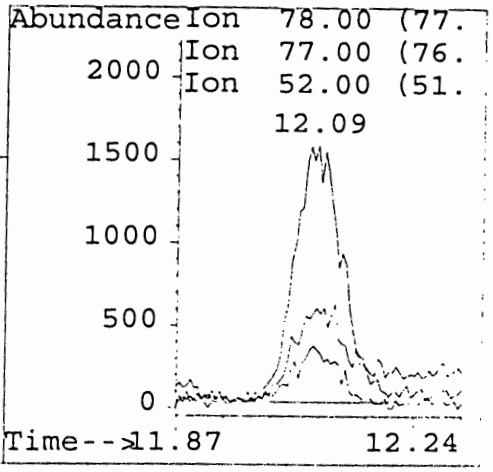
V 0052

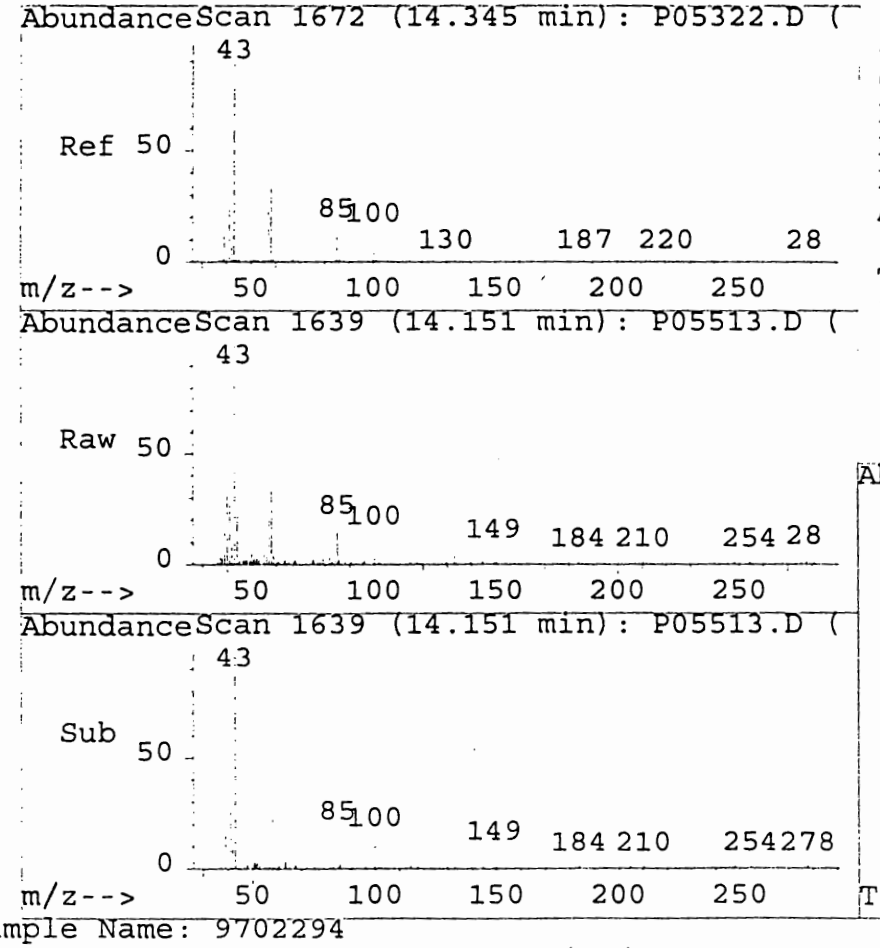


#25
Benzene
Concen: 1.46 UG/L
RT: 12.09 min Scan# 1279
Delta R.T. 0.06 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:78 Resp: 8205

Ion	Ratio	Lower	Upper
78	100		
77	35.8	5.9	45.9
52	23.1	0.1	40.1
0	0.0	0.0	0.0

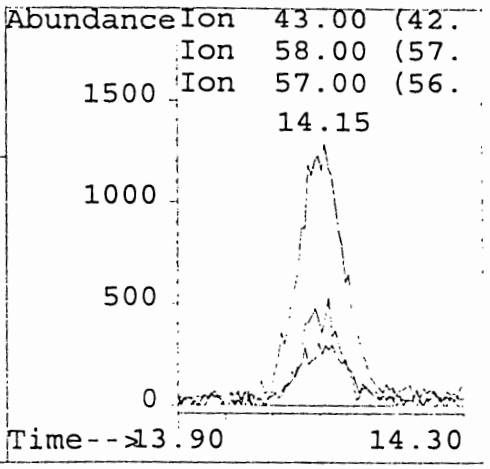




#35
4-Methyl-2-Pentanone
Concen: 8.69 UG/L m
RT: 14.15 min Scan# 1639
Delta R.T. 0.06 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

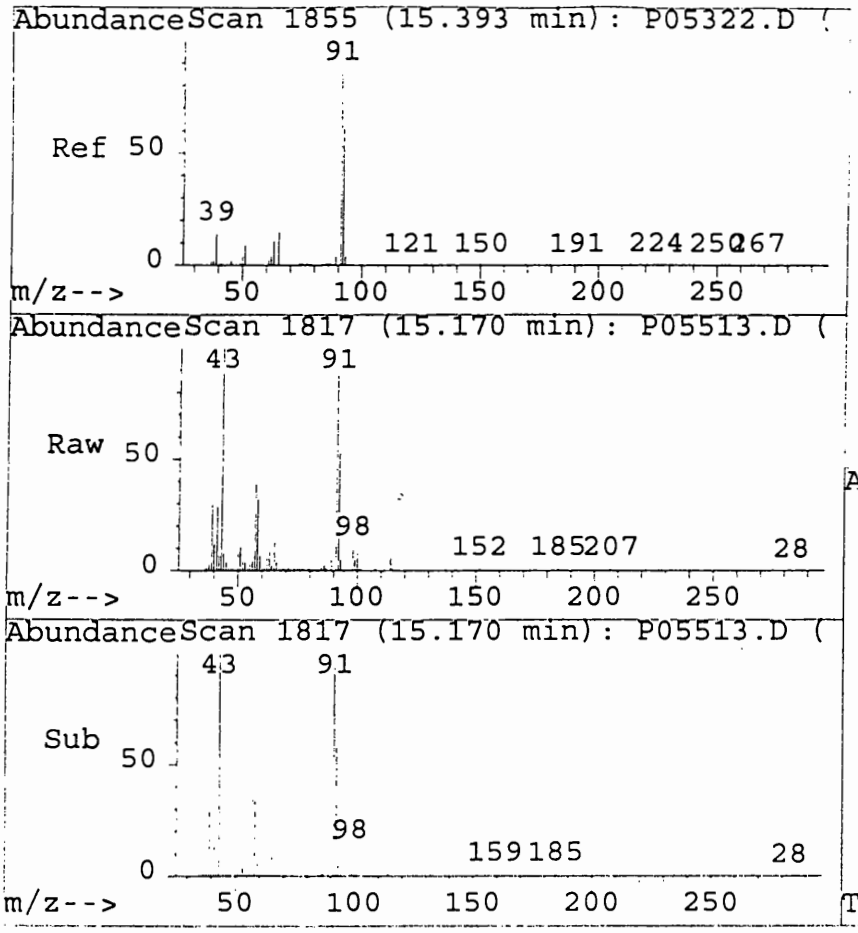
Tgt Ion:43 Resp: 7268

Ion	Ratio	Lower	Upper
43	100		
58	34.7	17.4	57.4
57	23.1	1.0	41.0
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:49 1997 MASSPEC1 Page 6

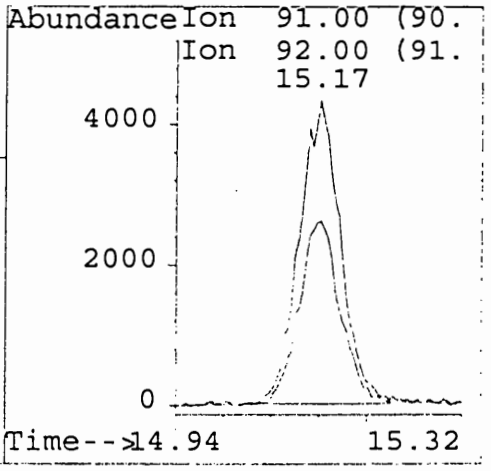
V 0083

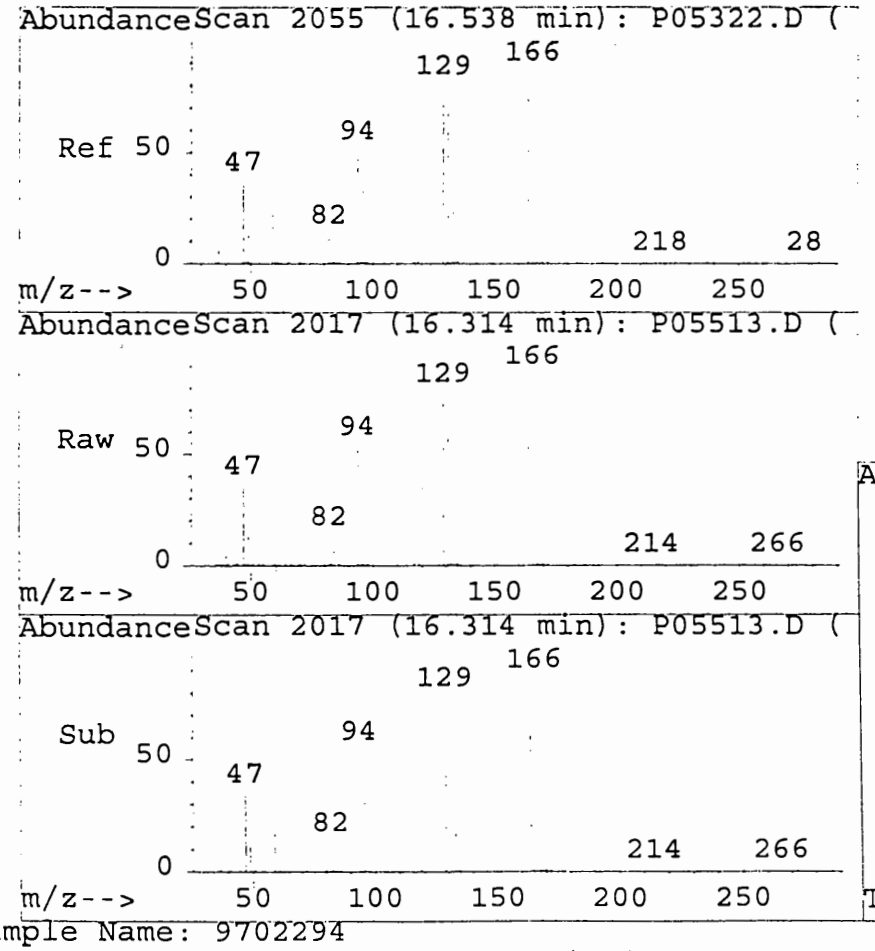


#36
Toluene
Concen: 3.37 UG/L
RT: 15.17 min Scan# 1817
Delta R.T. 0.07 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:91 Resp: 19489

Ion	Ratio	Lower	Upper
91	100		
92	59.9	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

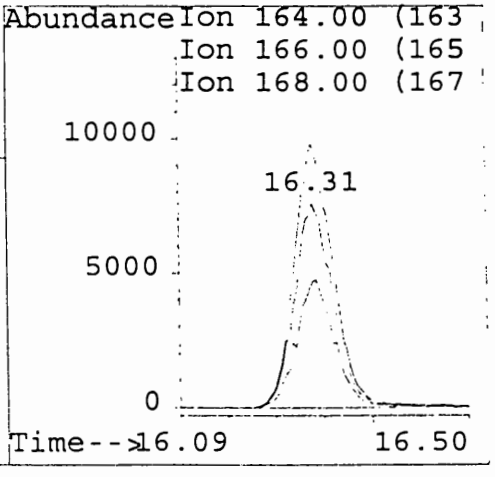




#37
Tetrachloroethene
Concen: 10.20 UG/L
RT: 16.31 min Scan# 2017
Delta R.T. 0.06 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

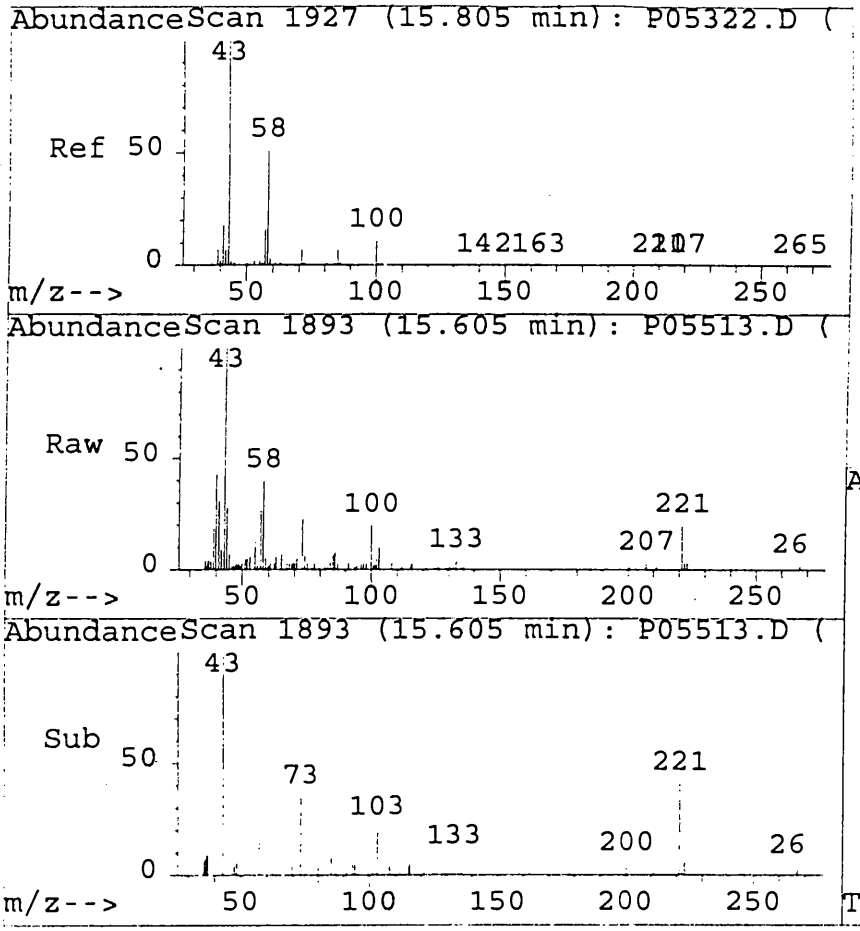
Tgt Ion:164 Resp: 34532

Ion	Ratio	Lower	Upper
164	100		
166	129.4	109.5	149.5
168	61.5	42.4	82.4
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:52 1997 MASSPEC1

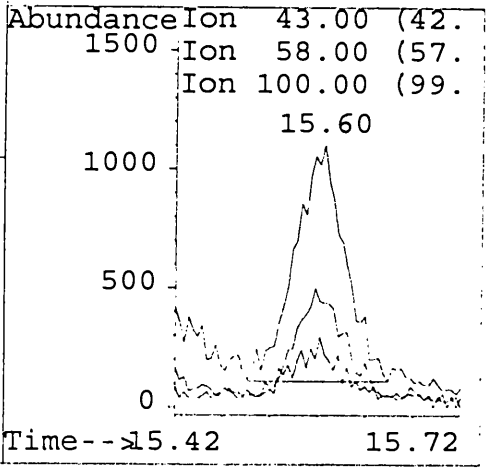
V 005.1

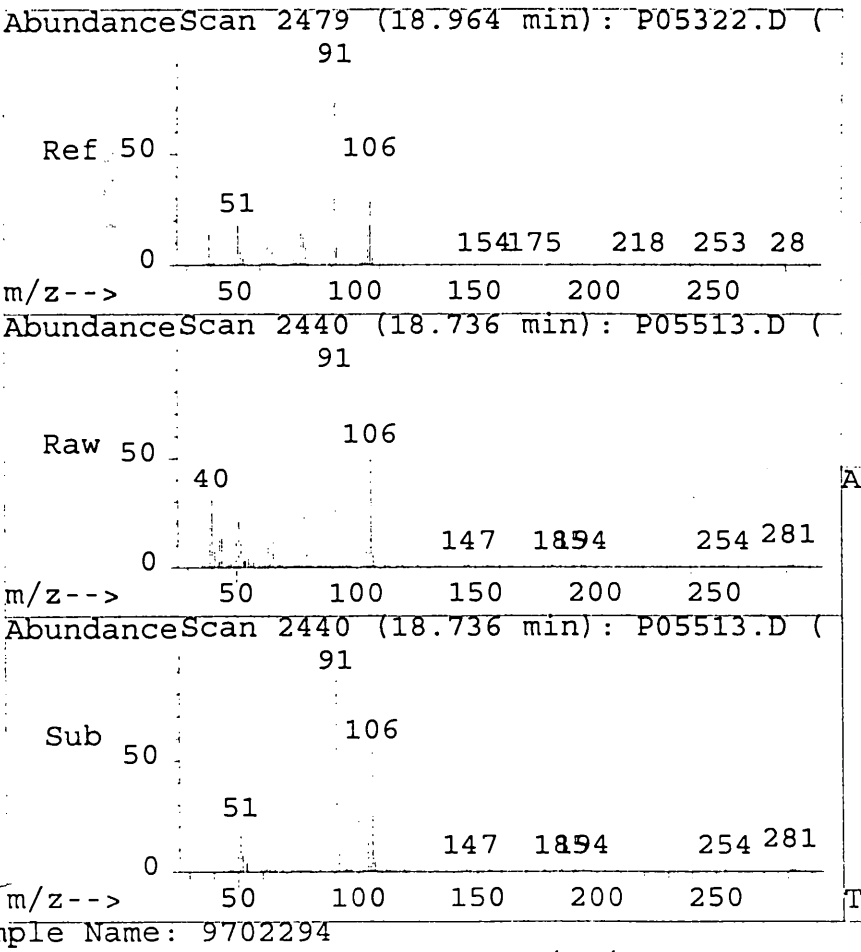


#38
2-Hexanone
Concen: 5.04 UG/L
RT: 15.60 min Scan# 1893
Delta R.T. 0.07 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:43 Resp: 4340

Ion	Ratio	Lower	Upper
43	100		
58	40.0	31.2	71.2
100	17.3	0.0	32.0
0	0.0	0.0	0.0

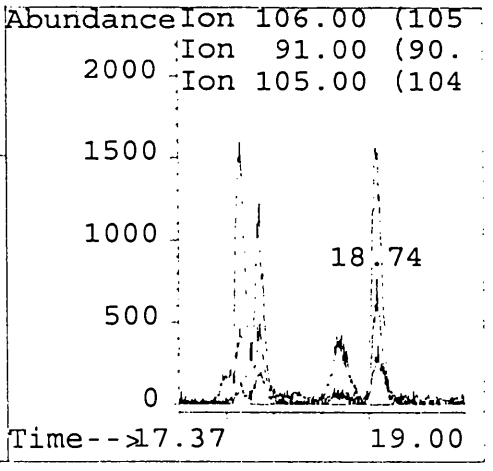




#41
Xylene (total)
Concen: 2.41 UG/L m
RT: 18.74 min Scan# 2440
Delta R.T. 0.07 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

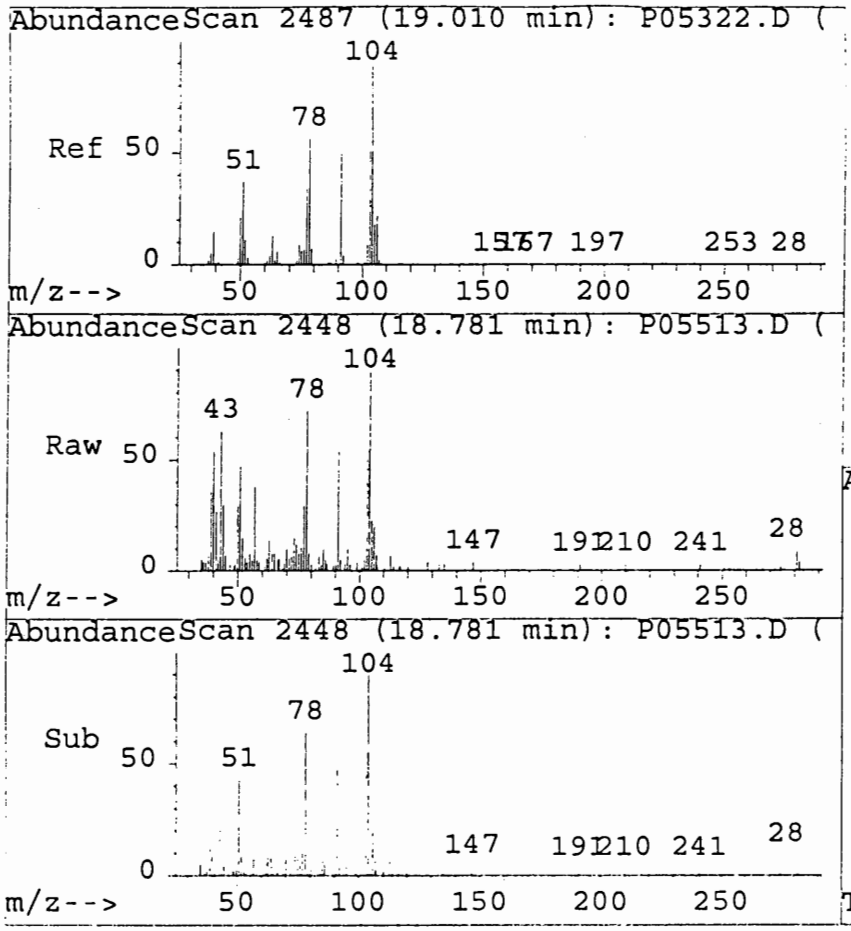
Tgt Ion:106 Resp: 5957

Ion	Ratio	Lower	Upper
106	100		
91	195.2	194.5	234.5
105	34.2	22.1	62.1
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML

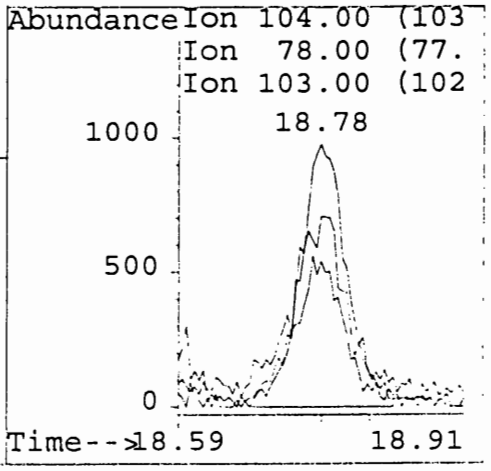
V 0055



#42
Styrene
Concen: 1.09 UG/L
RT: 18.78 min Scan# 2448
Delta R.T. 0.07 min
Lab File: P05513.D
Acq: 28 Jan 97 8:18 pm

Tgt Ion:104 Resp: 4354

Ion	Ratio	Lower	Upper
104	100		
78	63.5	28.0	68.0
103	51.9	33.0	73.0
0	0.0	0.0	0.0



Sample Name: 9702294
Misc. Info: B60230 H5970-3 1/27/97 5.0ML
P05513.D CLPW.M Tue Feb 11 08:58:57 1997 MASSPEC1 Page 9

Library Search Compound Report

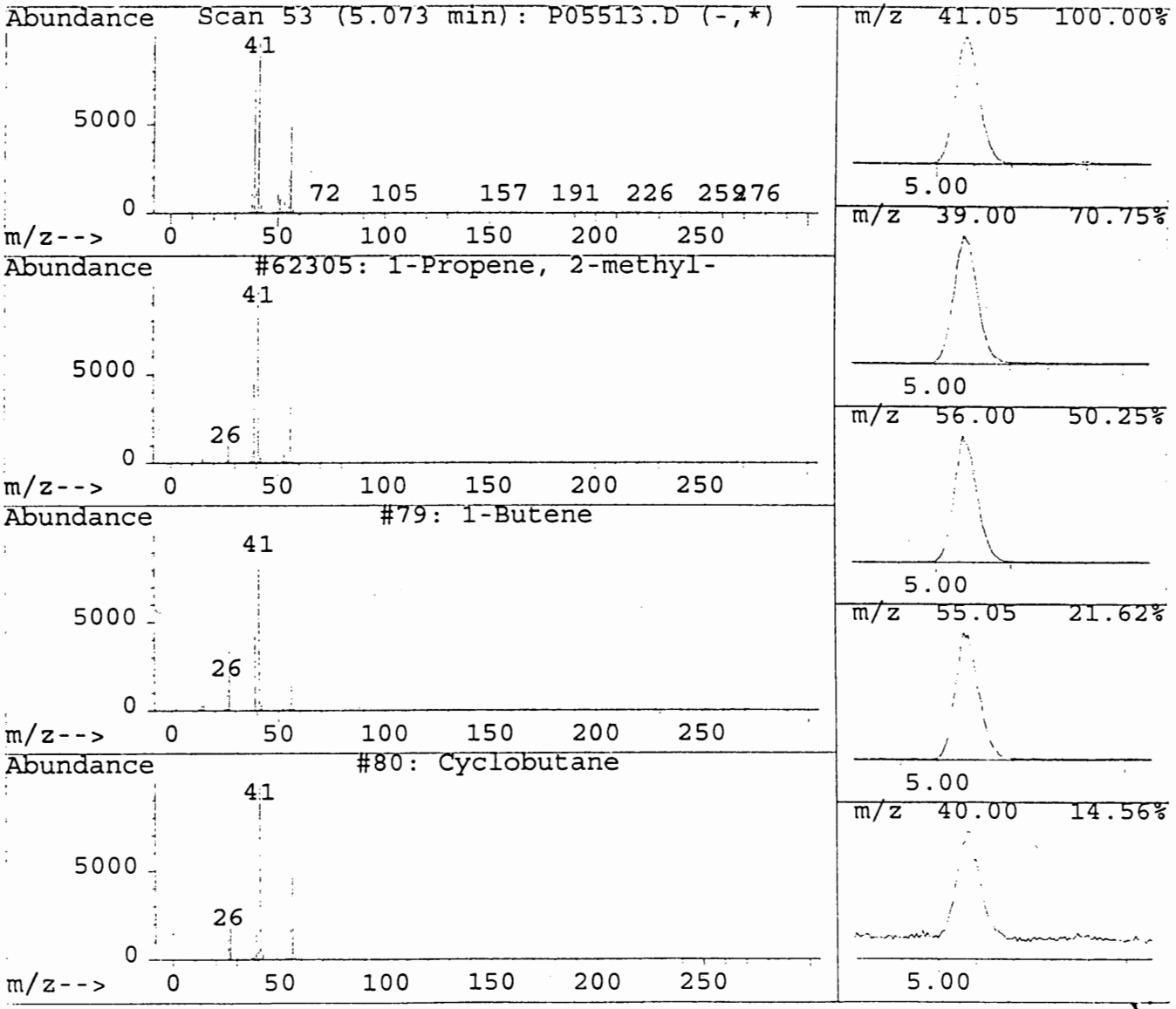
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
5.07	52.43 UG/L	577121	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	86
2	1-Butene	56	C4H8	000106-98-9	59
3	Cyclobutane	56	C4H8	000287-23-0	43
4	2-Butene, (E)-	56	C4H8	000624-64-6	43



Library Search Compound Report

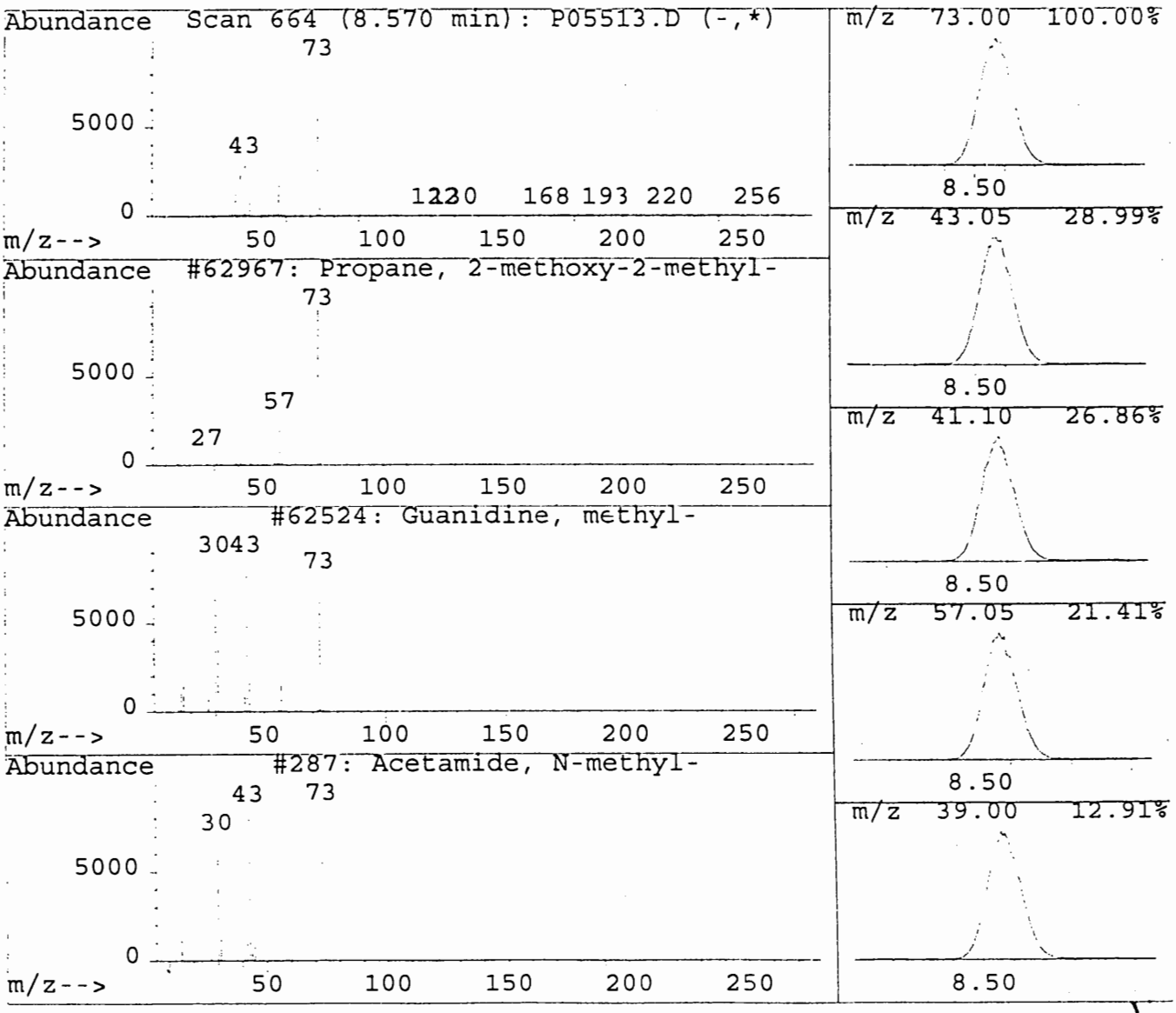
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.57	993.04 UG/L	10930403	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	83
2	Guanidine, methyl-	73	C2H7N3	000471-29-4	7
3	Acetamide, N-methyl-	73	C3H7NO	000079-16-3	4
4	N-Ethylformamide	73	C3H7NO	000627-45-2	4
5	Butane, 2-nitro-	103	C4H9NO2	000600-24-8	4



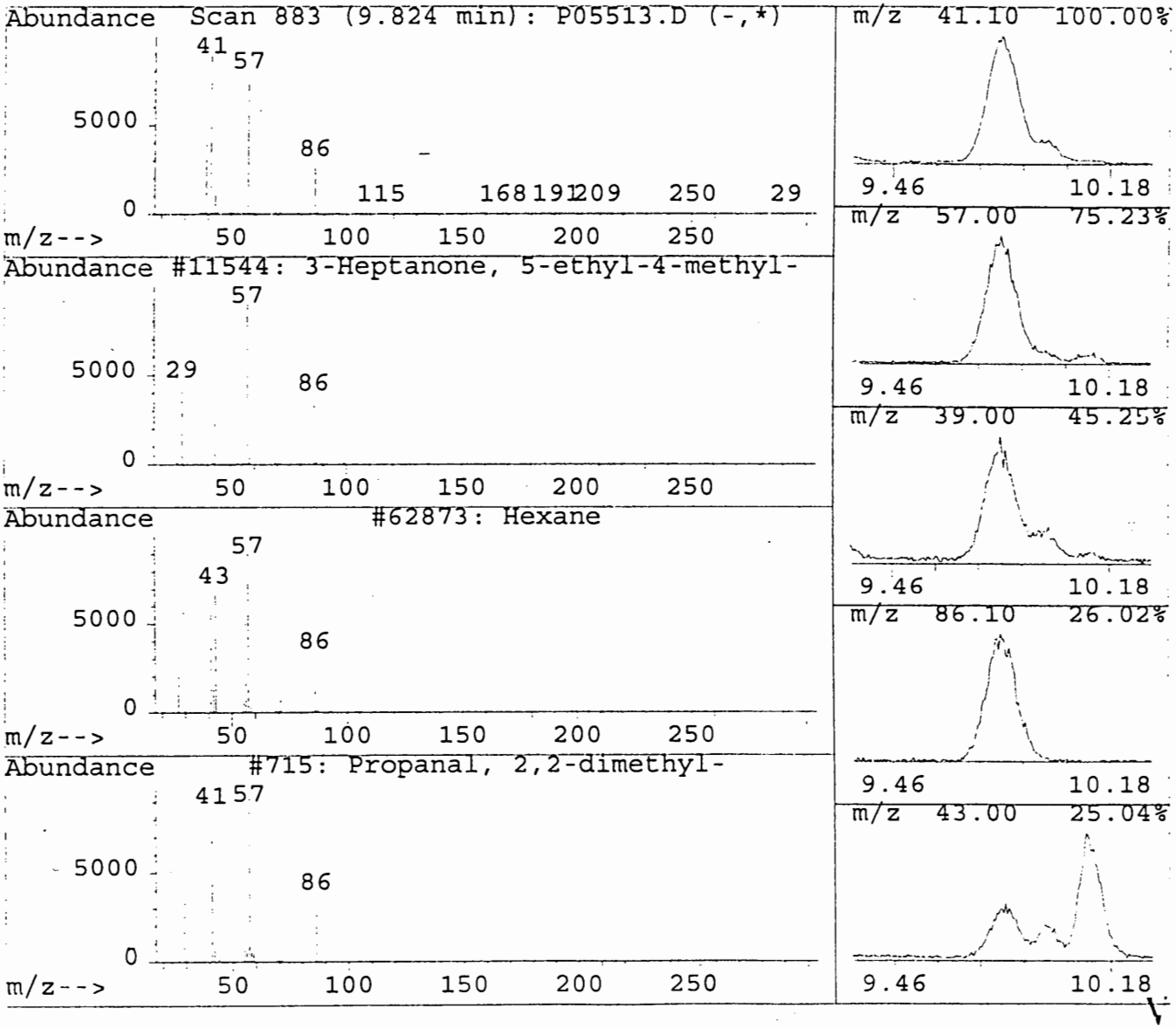
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
9.82	13.86 UG/L	152553	Bromochloromethane	11.01

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptanone, 5-ethyl-4-methyl-	156	C10H20O	027607-63-2	22
2	Hexane	86	C6H14	000110-54-3	22
3	Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	17
4	Propane, 1-bromo-2-methyl-	136	C4H9Br	000078-77-3	16
5	2-Propenoic acid, 2-methyl-	86	C4H6O2	000079-41-4	9



0959

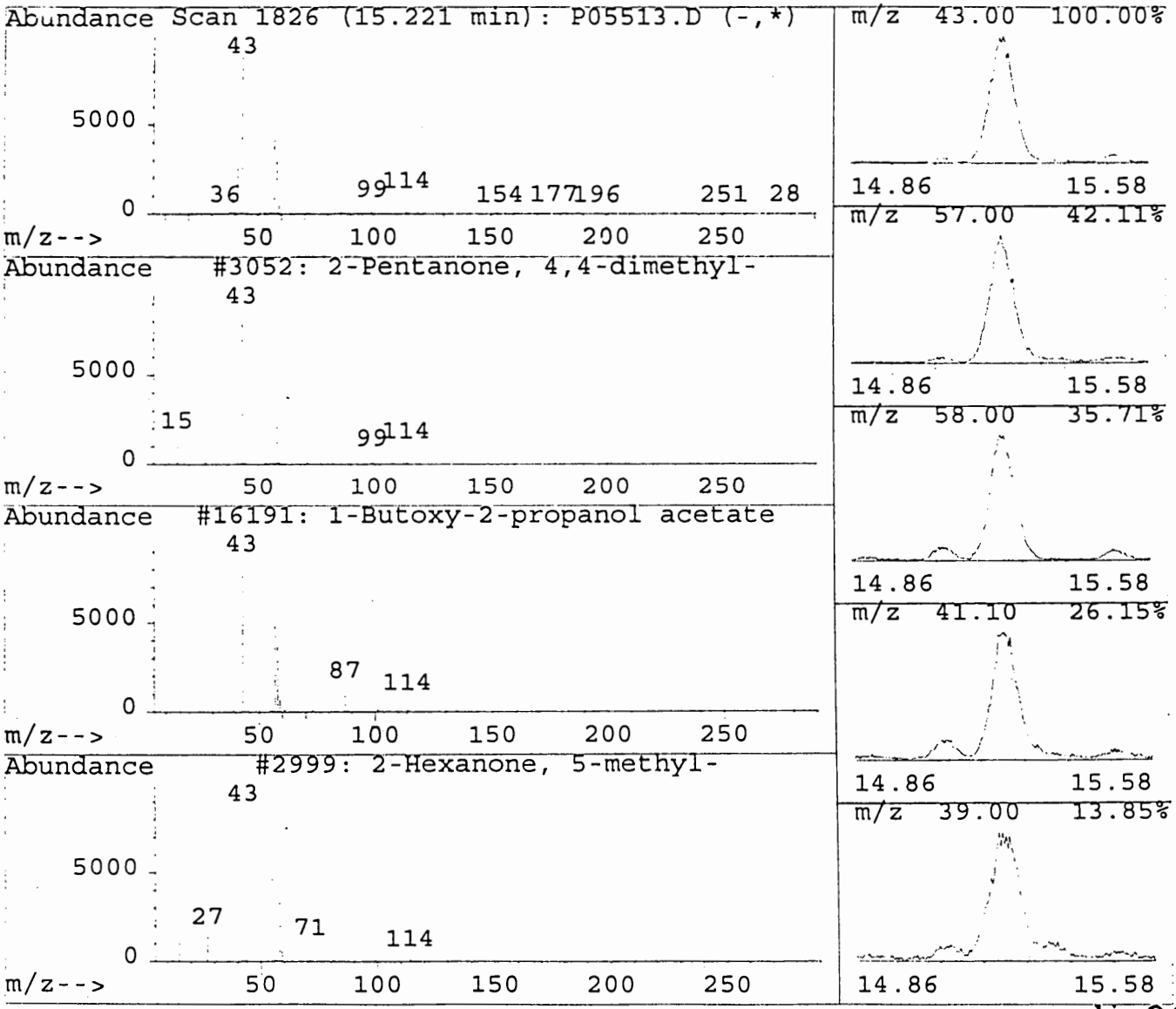
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
15.22	17.28 UG/L	303642	Chlorobenzene-d5	17.69

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4,4-dimethyl-	114	C7H14O	000590-50-1	90
2	1-Butoxy-2-propanol acetate	174	C9H18O3	000000-00-0	50
3	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	43
4	2-Heptanone	114	C7H14O	000110-43-0	32
5	3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	12



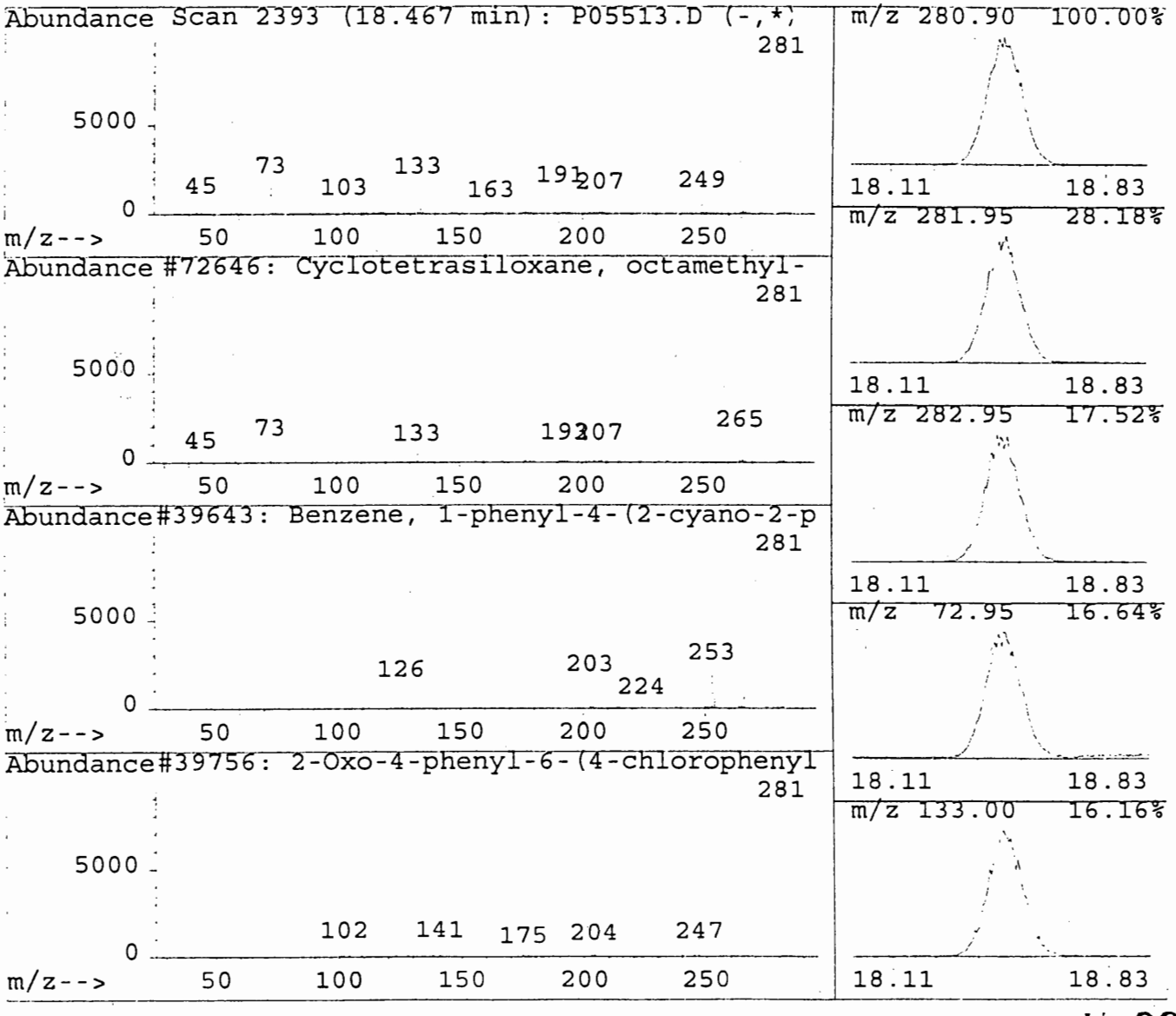
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.47	25.38 UG/L	446134	Chlorobenzene-d5	17.69

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	64
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	9
3	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	8
4	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	7
5	3',6-Dimethoxyaurone	282	C17H14O4	077764-84-2	5



V 0991

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60231

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702300

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05489.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 2.7 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	2	JB
540-59-0	1,2-Dichloroethene (total)	10	U
75-34-4	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

V 00912

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60231

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702300

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05489.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 2.7 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

JMW H2M 2/13/97

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

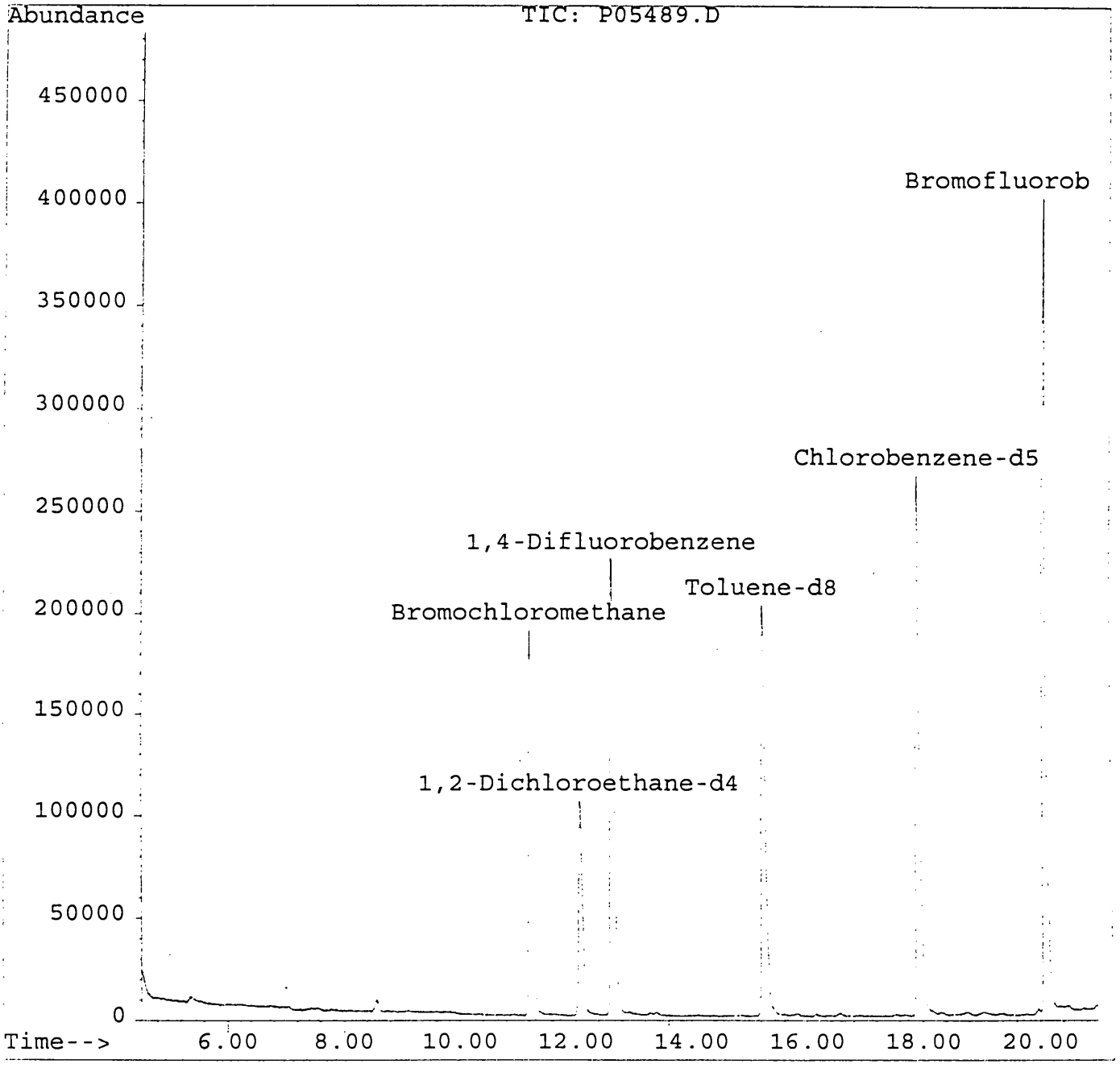
V 0093

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05489.D
Acq On : 27 Jan 97 6:17 pm
Sample : 9702300
Misc : B60231 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:50 1997

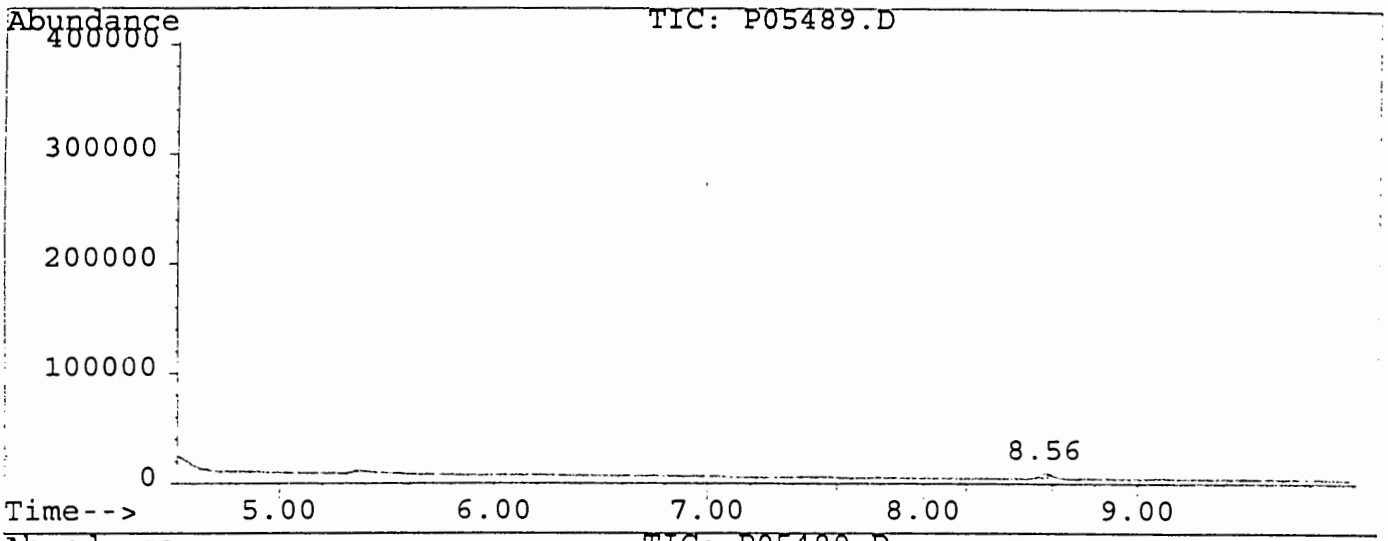
Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

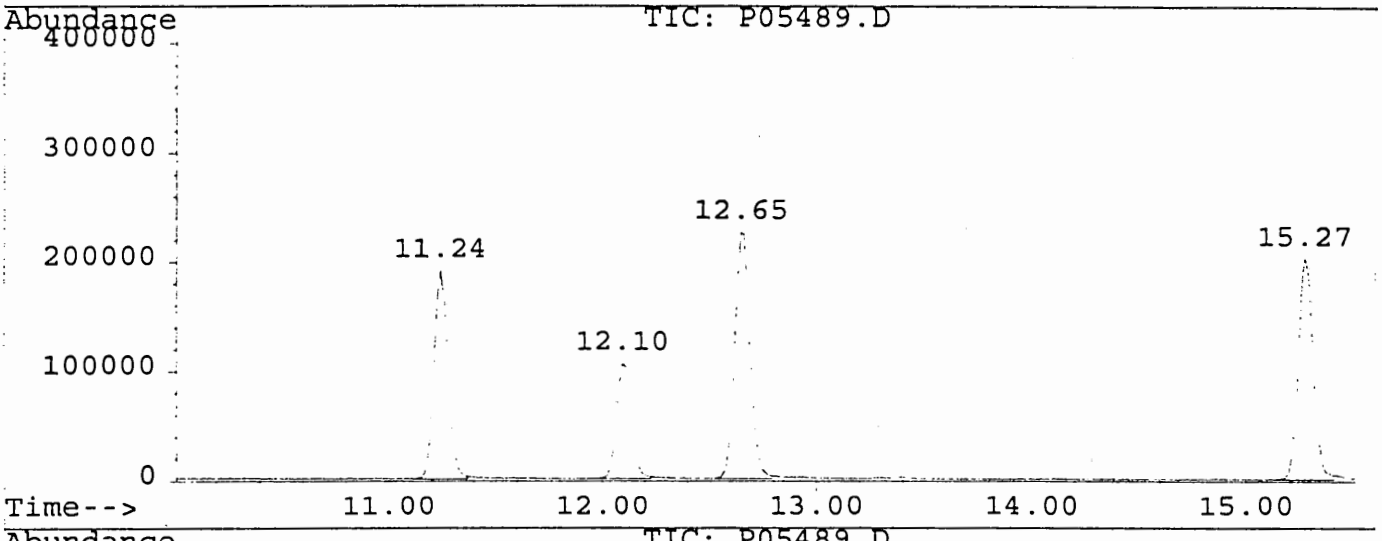
Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration

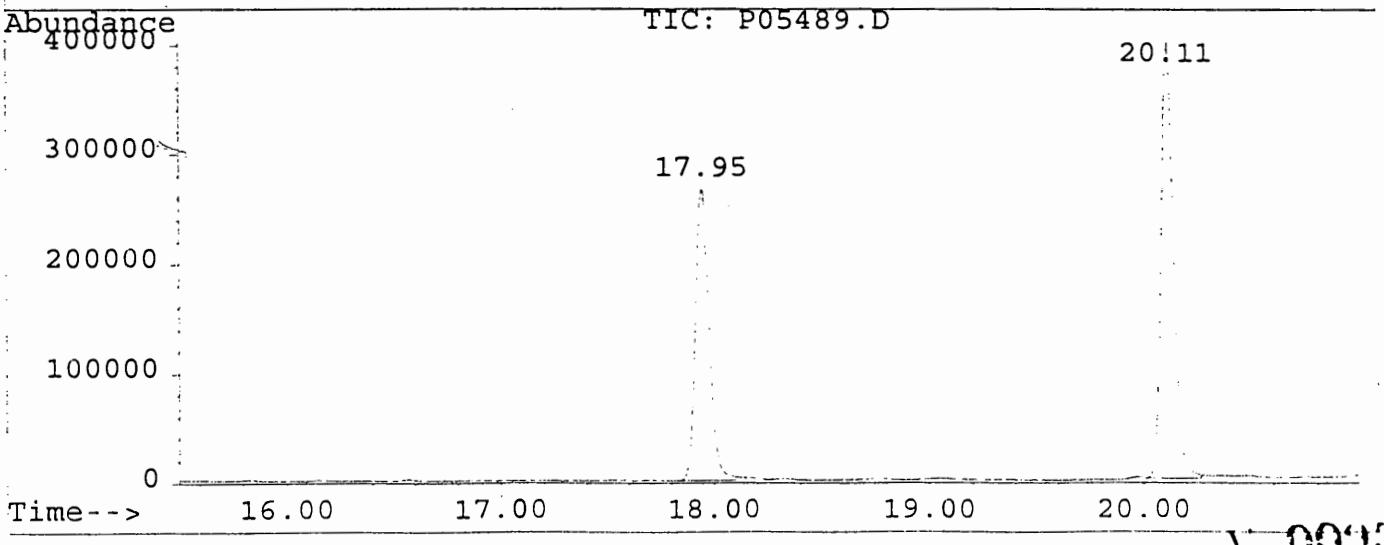


V 0001

File : C:\HPCHEM\1\DATA\P05489.D
Operator : GLENN
Acquired : 27 Jan 97 18:17 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702300
Misc Info : B60231 H5970-3 1/27/97 5.0G
Vial Number: 6







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05489.D
Acq On : 27 Jan 97 18:17
Sample : 9702300
Misc : B60231 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:50 1997

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Mon Jan 27 15:49:29 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	110617	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.66	114	394981	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.95	117	325509	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	184833	54.11	UG/L	108.22%
34) Toluene-d8	15.28	98	326256	48.78	UG/L	97.56%
43) Bromofluorobenzene	20.11	95	321185	51.39	UG/L	102.77%
Target Compounds						Qvalue
9) Methylene Chloride	8.57	84	5955	1.57	UG/L	86

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

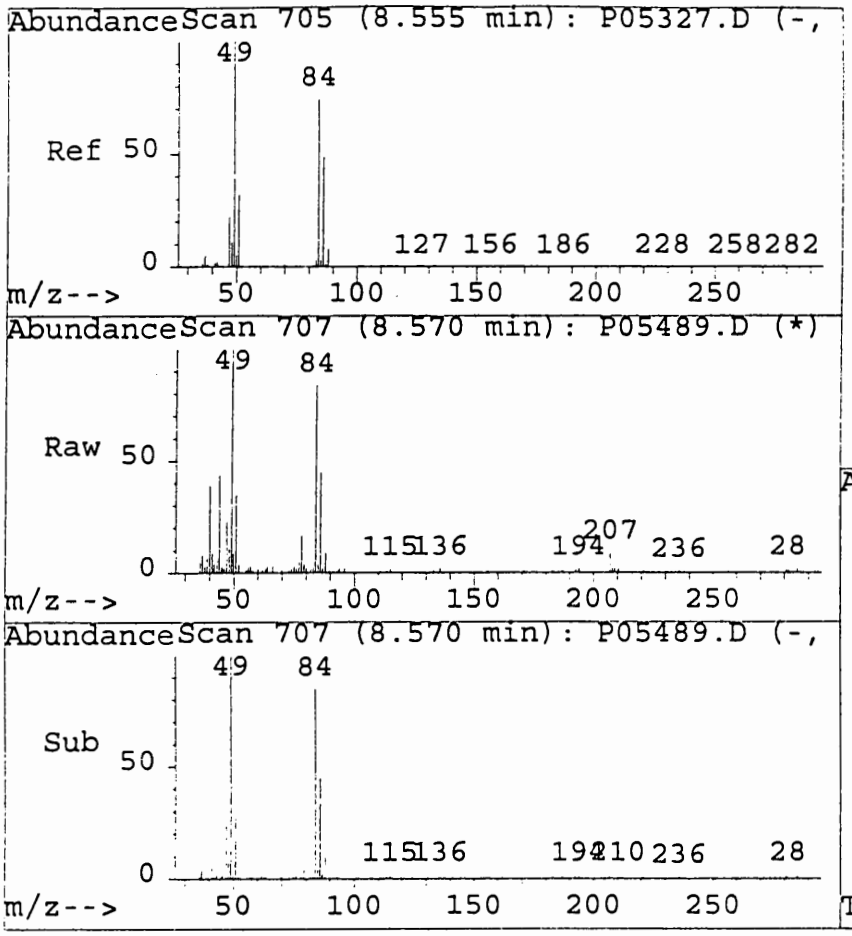
Data File : C:\HPCHEM\1\DATA\P05489.D
Acq On : 27 Jan 97 18:17
Sample : 9702300
Misc : B60231 H5970-3 1/27/97 5.0G

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

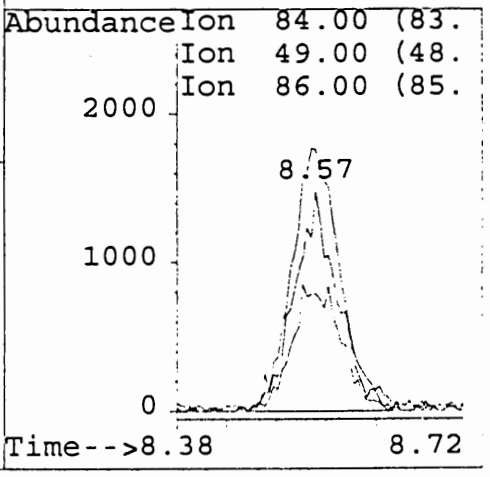
V 0097



#9
Methylene Chloride
Concen: 1.57 UG/L
RT: 8.57 min Scan# 707
Delta R.T. -0.02 min
Lab File: P05489.D
Acq: 27 Jan 97 6:17 pm

Tgt Ion:84 Resp: 5955

Ion	Ratio	Lower	Upper
84	100		
49	119.4	113.6	153.6
86	53.5	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702300
Misc. Info: B60231 H5970-3 1/27/97 5.0G
P05489.D CLPS.M Tue Feb 11 11:00:53 1997 MASSPEC1 Page 3

V 0035

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60232

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702301

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05490.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 3.4 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	2	JB
540-59-0	1,2-Dichloroethene (total)	10	U
75-34-4	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60232

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702301

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05490.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 3.4 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

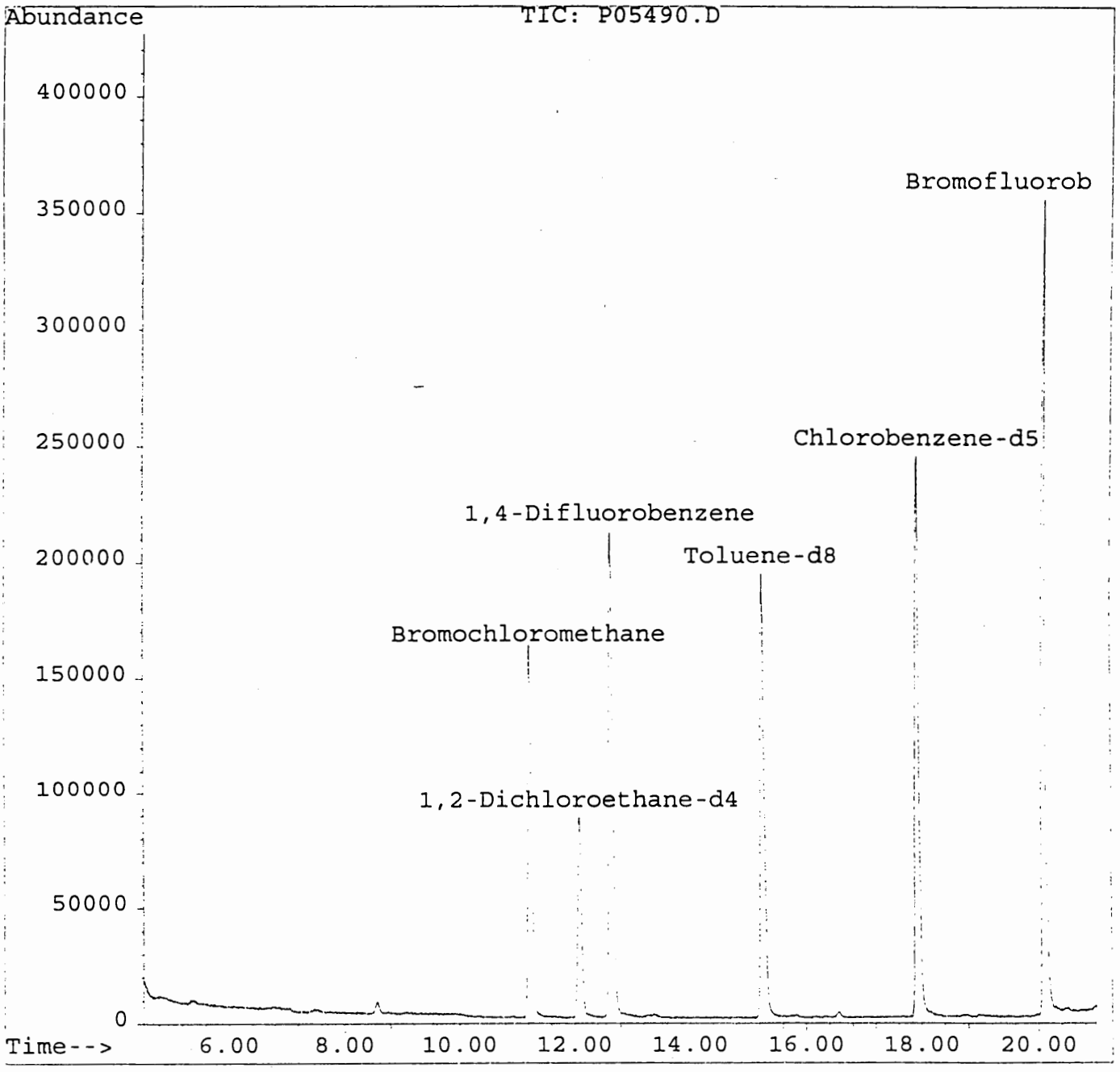
V 0100

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05490.D
Acq On : 27 Jan 97 6:47 pm
Sample : 9702301
Misc : B60232 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:51 1997

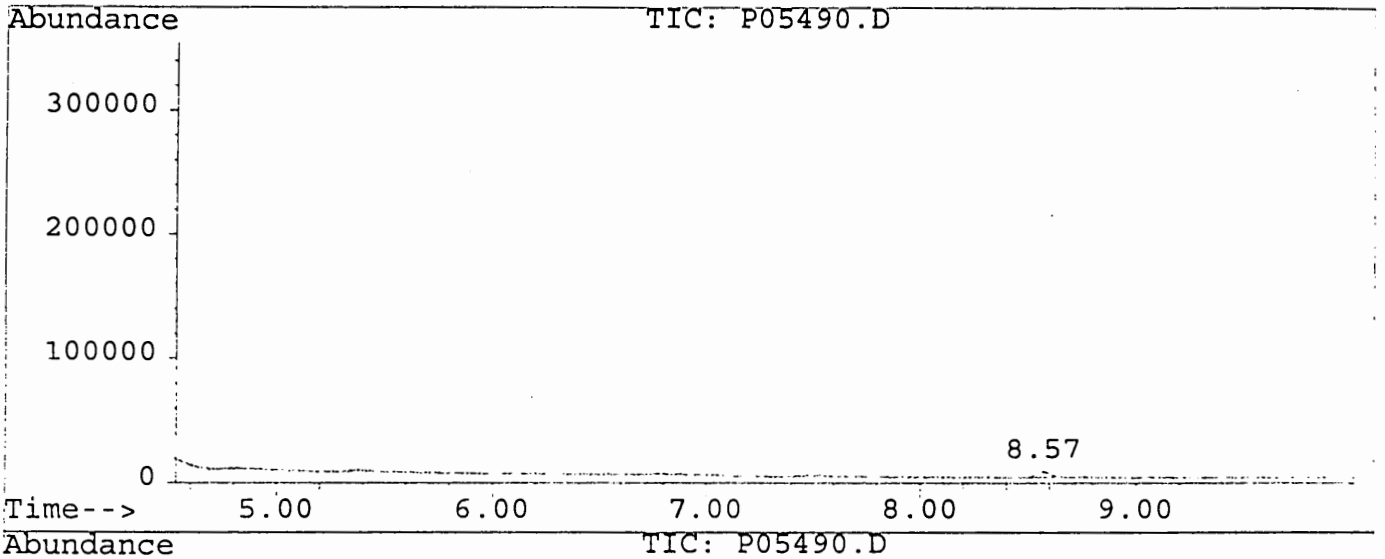
Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

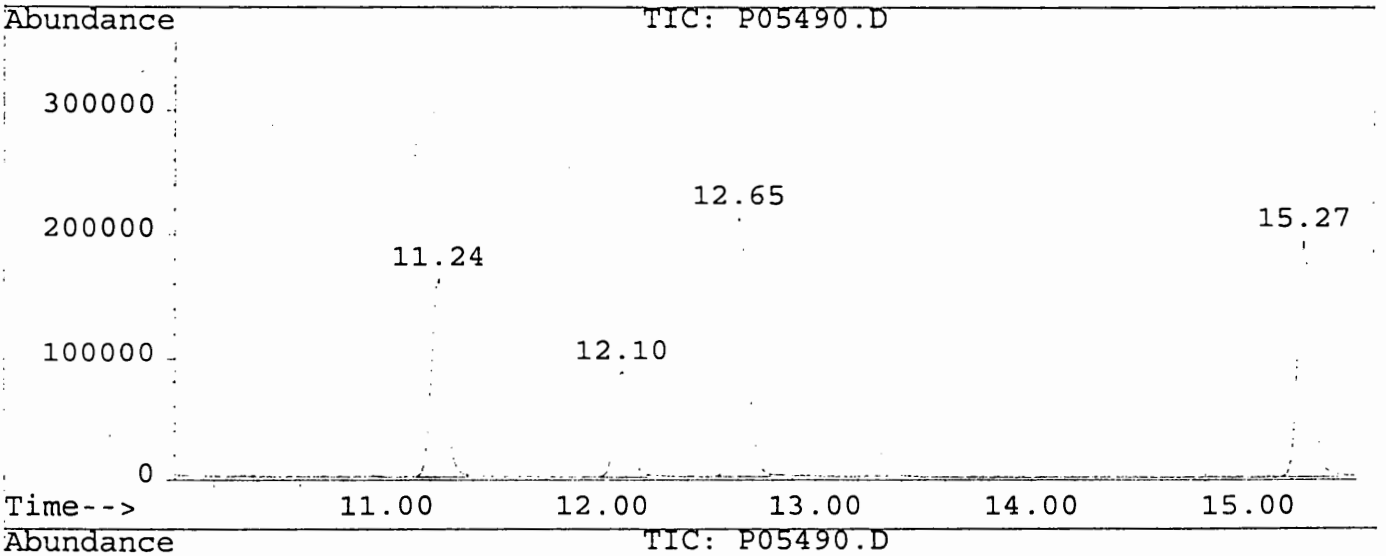
Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration

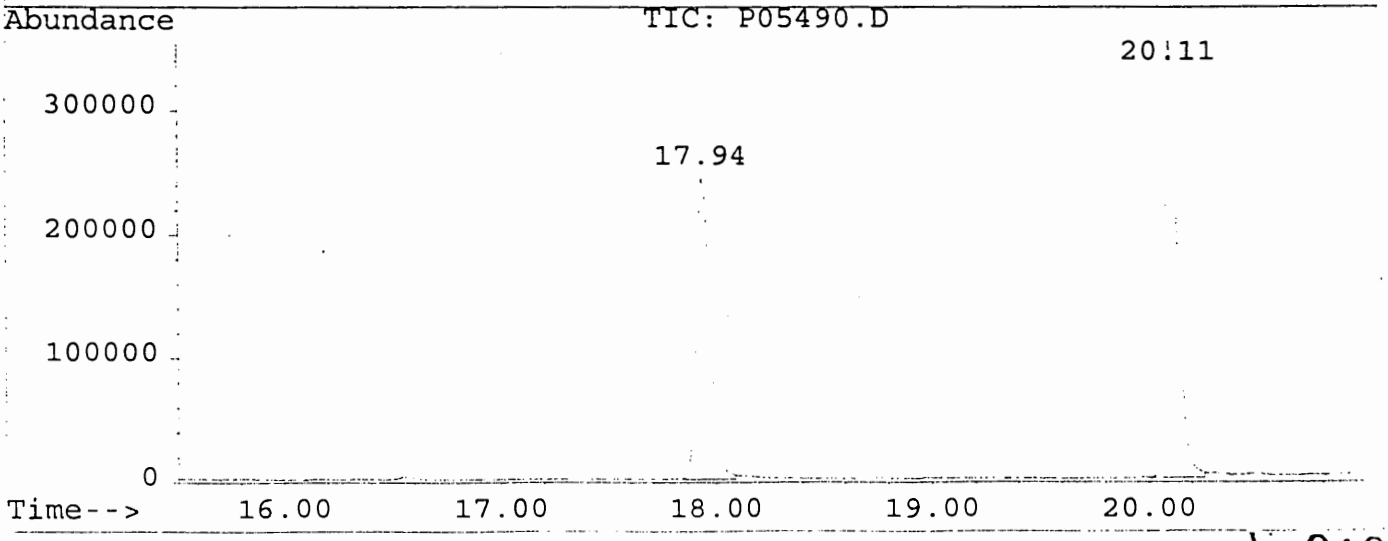


0101

File : C:\HPCHEM\1\DATA\P05490.D
Operator : GLENN
Acquired : 27 Jan 97 18:47 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702301
Misc Info : B60232 H5970-3 1/27/97 5.0G
Vial Number: 7







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05490.D
Acq On : 27 Jan 97 18:47
Sample : 9702301
Misc : B60232 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:51 1997

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Mon Jan 27 15:49:29 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	95111	50.00	UG/L	-0.02
21) 1,4-Difluorobenzene	12.65	114	362895	50.00	UG/L	-0.02
33) Chlorobenzene-d5	17.94	117	301197	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	154011	52.44	UG/L	104.88%
34) Toluene-d8	15.27	98	306399	49.51	UG/L	99.02%
43) Bromofluorobenzene	20.11	95	282824	48.90	UG/L	97.80%
Target Compounds						Qvalue
9) Methylene Chloride	8.57	84	5311	1.63	UG/L	94

(#) = qualifier out of range (m) = manual integration

V 0103

Library Search Compound Report

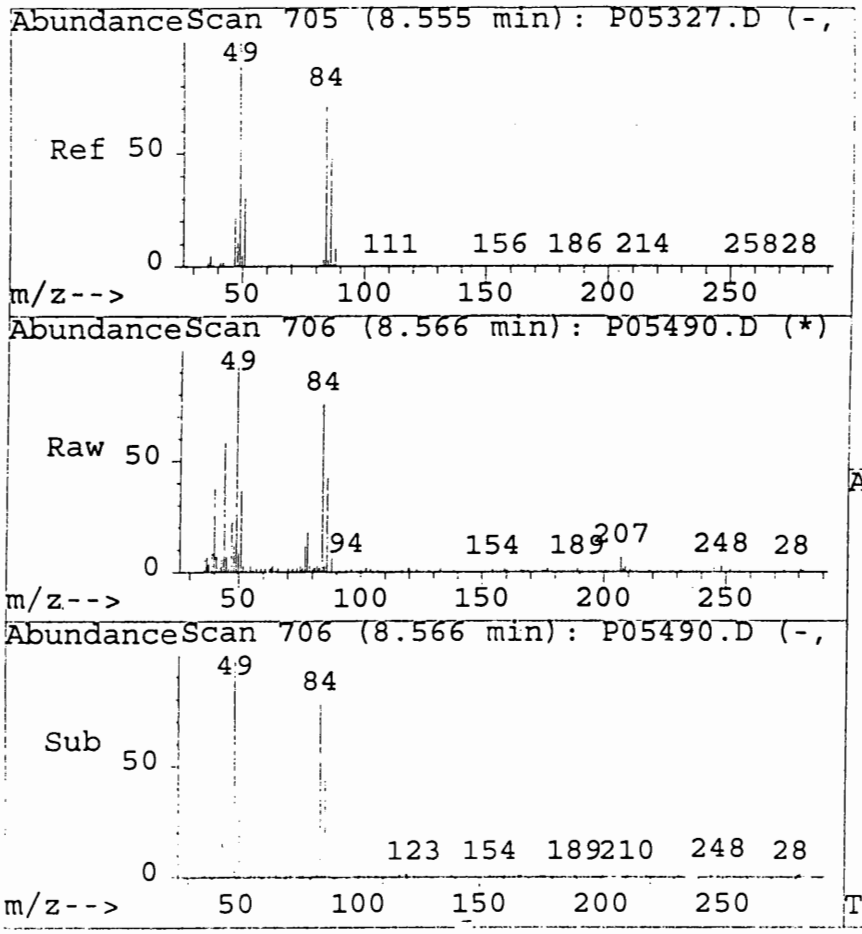
Data File : C:\HPCHEM\1\DATA\P05490.D
Acq On : 27 Jan 97 18:47
Sample : 9702301
Misc : B60232 H5970-3 1/27/97 5.0G

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

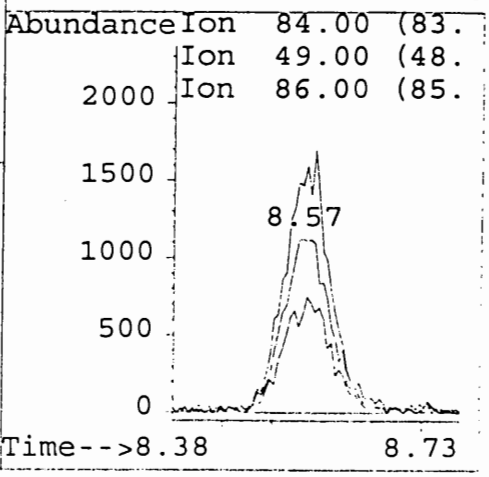
V 0101



#9
Methylene Chloride
Concen: 1.63 UG/L
RT: 8.57 min Scan# 706
Delta R.T. -0.03 min
Lab File: P05490.D
Acq: 27 Jan 97 6:47 pm

Tgt Ion:84 Resp: 5311

Ion	Ratio	Lower	Upper
84	100		
49	130.9	113.6	153.6
86	56.4	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702301
Misc. Info: B60232 H5970-3 1/27/97 5.0G
P05490.D CLPS.M Tue Feb 11 11:01:12 1997 MASSPEC1 Page 3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60233

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702302

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05491.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 2.6 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	2	JB
540-59-0	1,2-Dichloroethene (total)	10	U
75-34-4	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60233

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702302

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05491.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 2.6 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

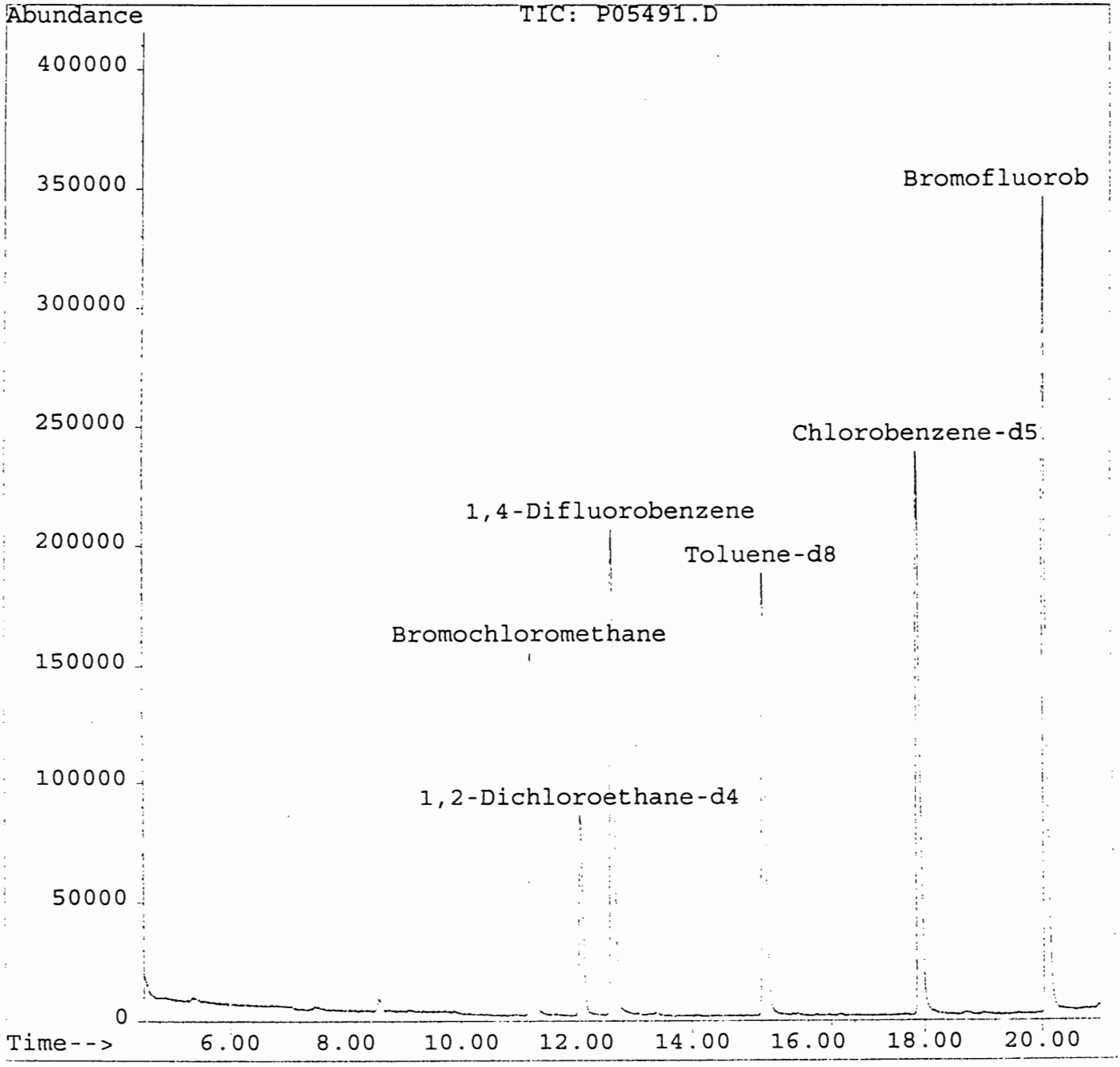
Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Data File : C:\HPCHEM\1\DATA\P05491.D
Acq On : 27 Jan 97 7:18 pm
Sample : 9702302
Misc : B60233 H5970-3 1/27/97 5.0G
Quant Time: Jan 27 19:43 1997

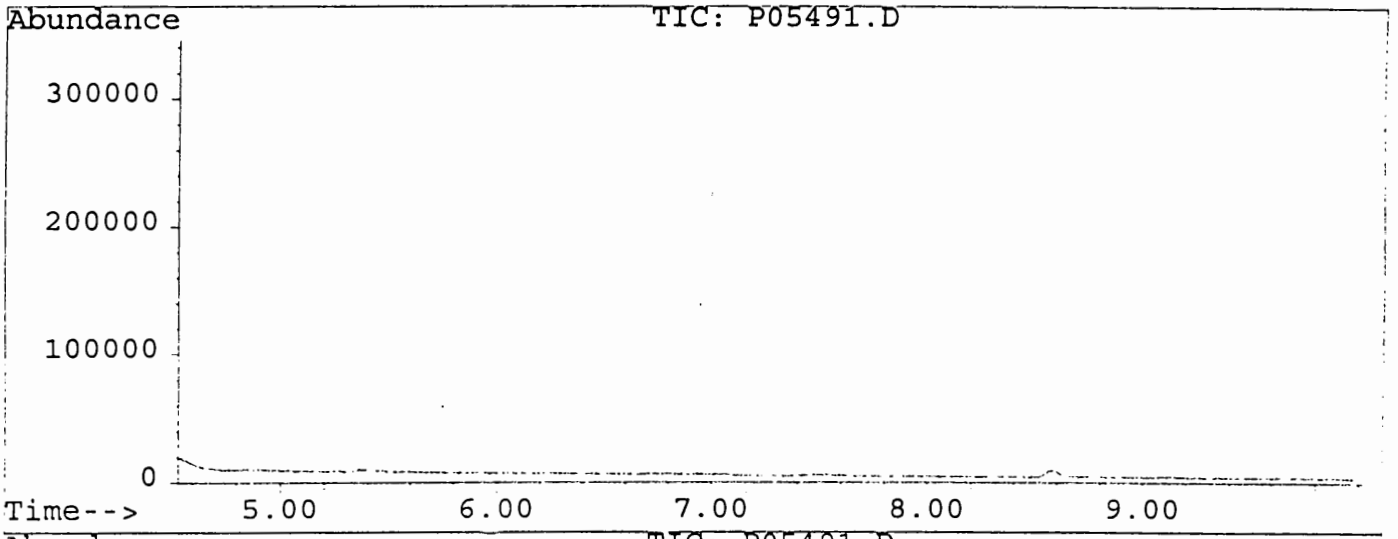
Vial: 8
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

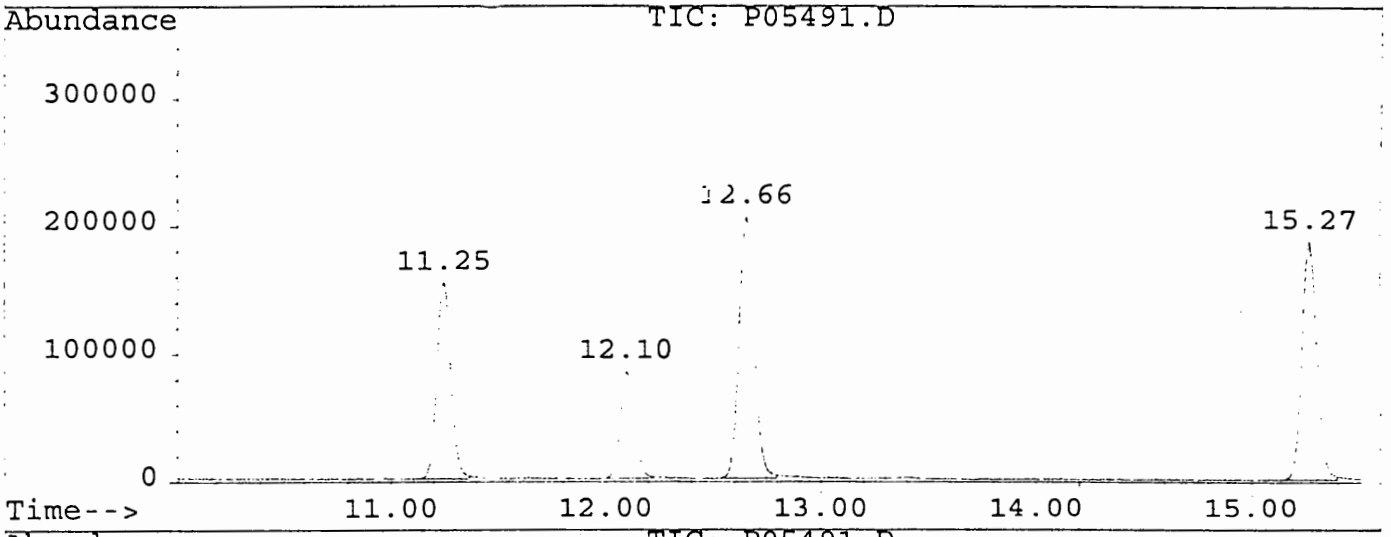
Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration

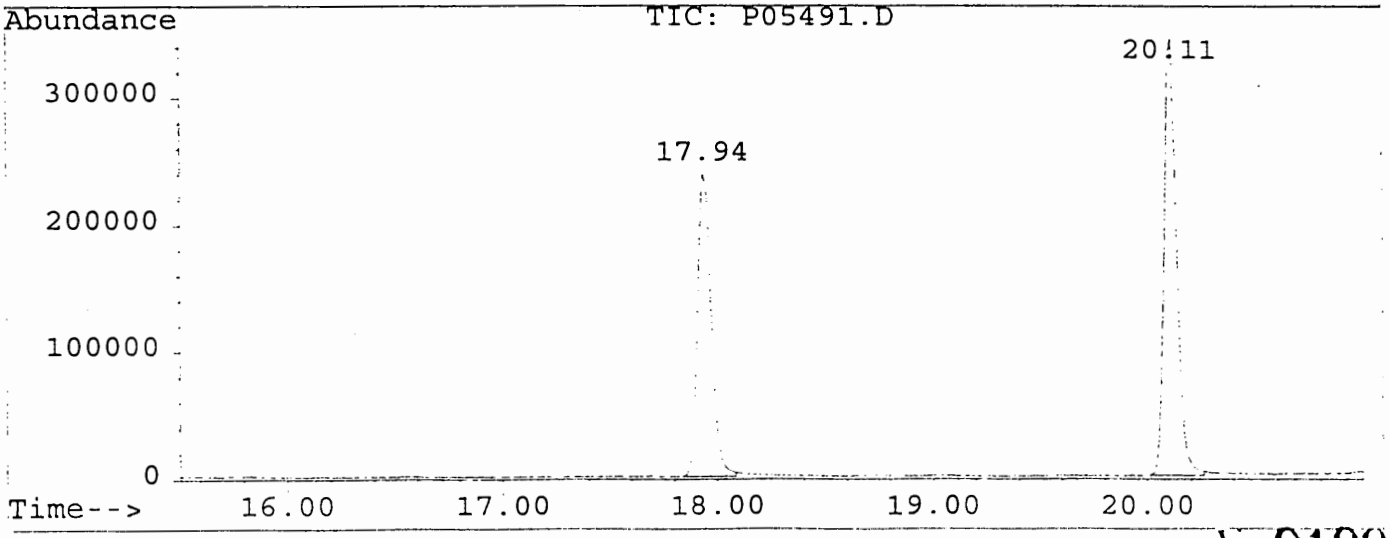


V 0105

File : C:\HPCHEM\1\DATA\P05491.D
Operator : GLENN
Acquired : 27 Jan 97 19:18 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702302
Misc Info : B60233 H5970-3 1/27/97 5.0G
Vial Number: 8







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05491.D Vial: 8
Acq On : 27 Jan 97 19:18 Operator: GLENN
Sample : 9702302 Inst : 5970 - In
Misc : B60233 H5970-3 1/27/97 5.0G Multiplr: 1.00
Quant Time: Jan 27 19:43 1997

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Mon Jan 27 15:49:29 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	92425	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.65	114	357282	50.00	UG/L	-0.01
33) Chlorobenzene-d5	17.94	117	293628	50.00	UG/L	-0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	147520	51.69	UG/L	103.38%
34) Toluene-d8	15.27	98	296607	49.16	UG/L	98.33%
43) Bromofluorobenzene	20.11	95	275904	48.93	UG/L	97.87%
Target Compounds						Qvalue
9) Methylene Chloride	8.57	84	5107	1.61	UG/L	94

(#) = qualifier out of range (m) = manual integration

V 0110

Library Search Compound Report

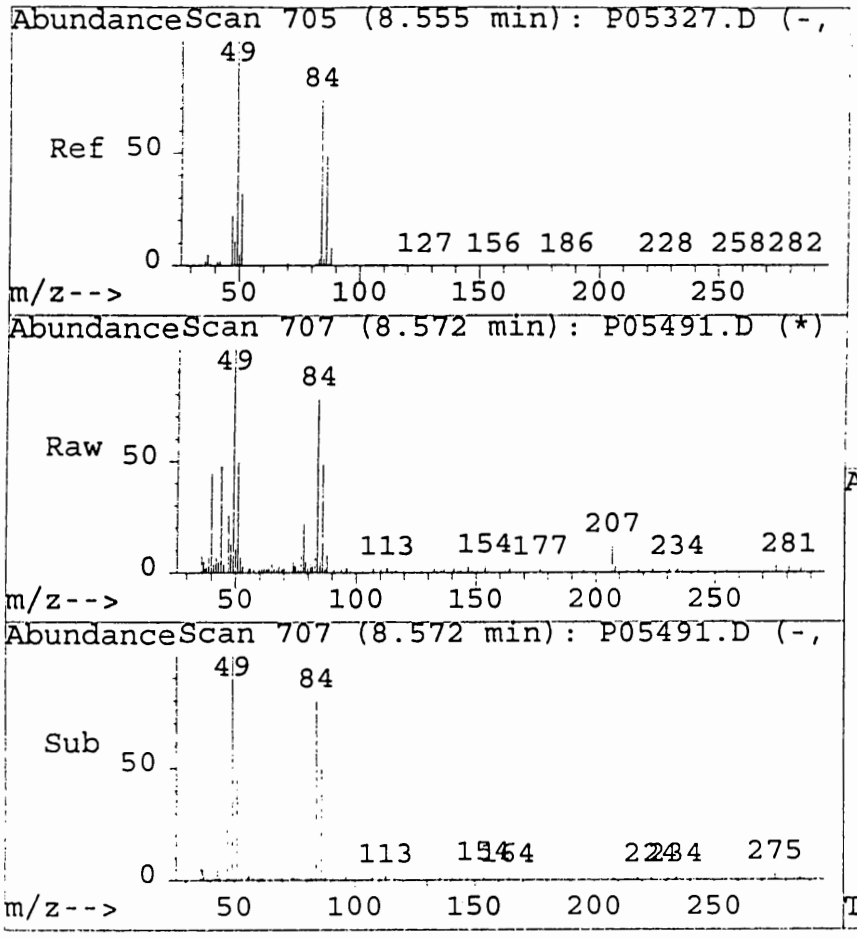
Data File : C:\HPCHEM\1\DATA\P05491.D
Acq On : 27 Jan 97 19:18
Sample : 9702302
Misc : B60233 H5970-3 1/27/97 5.0G

Vial: 8
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

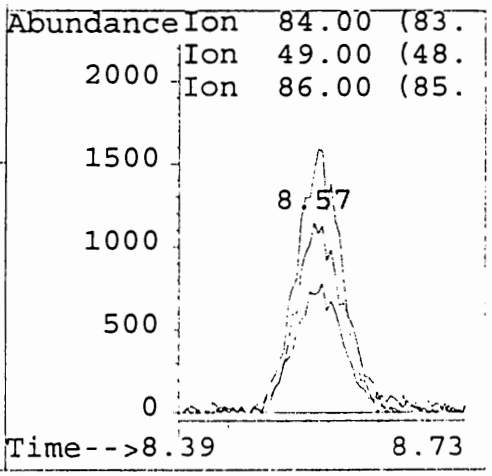
V 0111



#9
Methylene Chloride
Concen: 1.61 UG/L
RT: 8.57 min Scan# 707
Delta R.T. -0.02 min
Lab File: P05491.D
Acq: 27 Jan 97 7:18 pm

Tgt Ion:84 Resp: 5107

Ion	Ratio	Lower	Upper
84	100		
49	127.5	113.6	153.6
86	62.2	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702302
Misc. Info: B60233 H5970-3 1/27/97 5.0G
P05491.D CLPS.M Tue Feb 11 11:01:28 1997 MASSPEC1 Page 3

V 0112

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B60234

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702303

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05492.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 3.6 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	2	JB
540-59-0	1,2-Dichloroethene (total)	10	U
75-34-4	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60234

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: 9702303

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05492.D

Level: (low/med) LOW Date Received: 01/24/97

% Moisture: not dec. 3.6 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

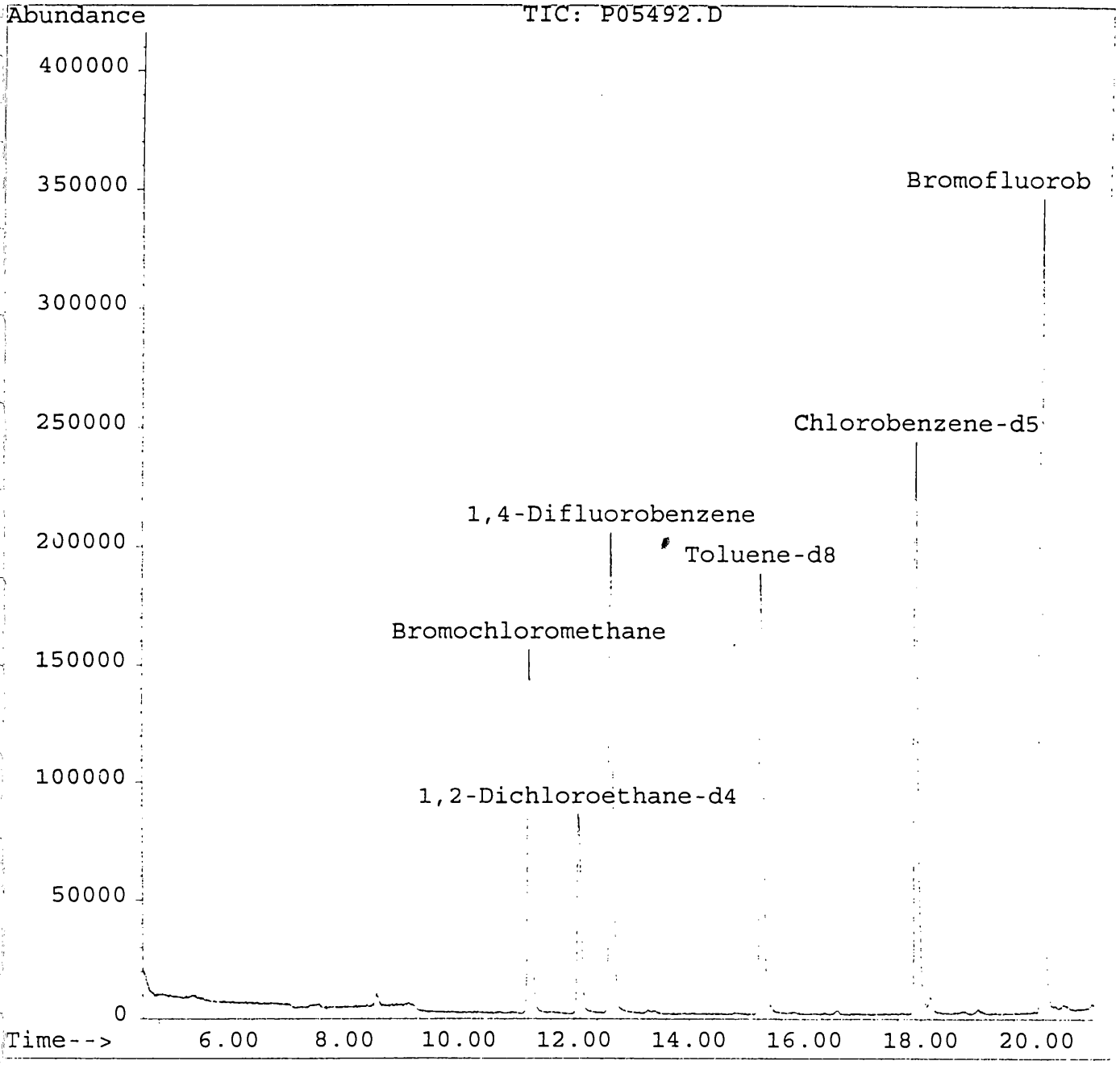
V 011.1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05492.D
Acq On : 27 Jan 97 7:49 pm
Sample : 9702303
Misc : B60234 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:51 1997

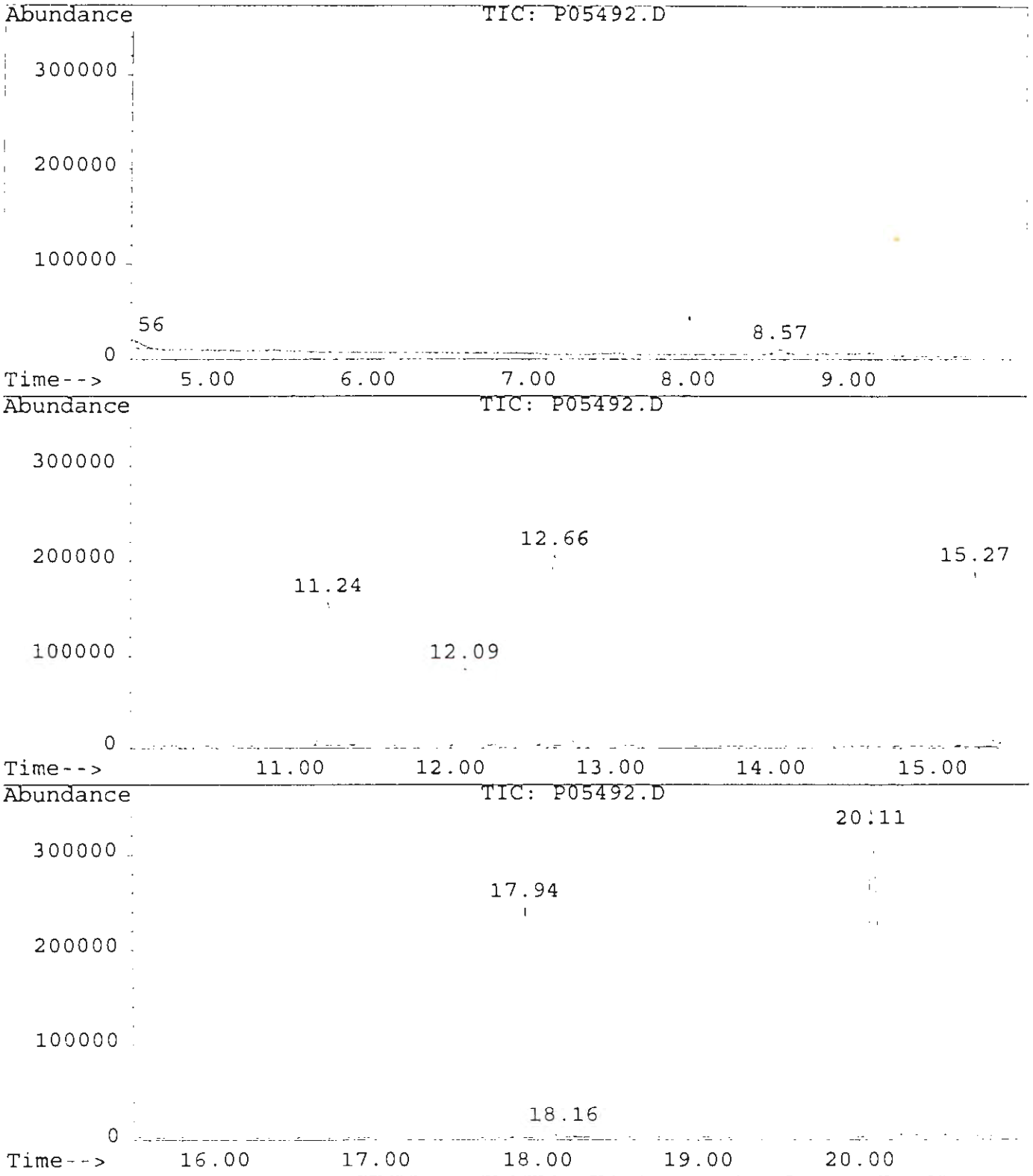
Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 011[illegible]

File : C:\HPCHEM\1\DATA\P05492.D
Operator : GLENN
Acquired : 27 Jan 97 19:49 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702303
Misc Info : B60234 H5970-3 1/27/97 5.0G
Vial Number: 9



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05492.D
Acq On : 27 Jan 97 19:49
Sample : 9702303
Misc : B60234 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:51 1997

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Mon Jan 27 15:49:29 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	90712	50.00	UG/L	-0.01
21) 1,4-Difluorobenzene	12.65	114	352351	50.00	UG/L	-0.01
33) Chlorobenzene-d5	17.94	117	295342	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	148559	53.03	UG/L	106.07%
34) Toluene-d8	15.27	98	297425	49.01	UG/L	98.03%
43) Bromofluorobenzene	20.11	95	275343	48.55	UG/L	97.10%
Target Compounds						Qvalue
9) Methylene Chloride	8.57	84	4901	1.58	UG/L	95

(#) = qualifier out of range (m) = manual integration

V 0117

Library Search Compound Report

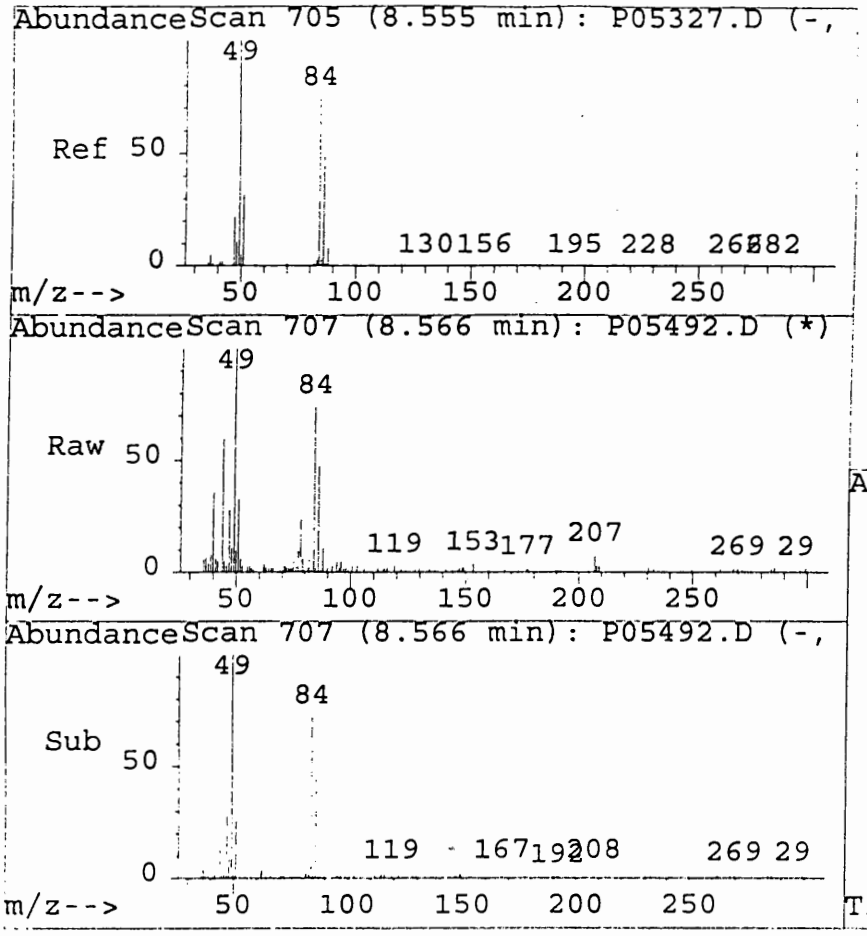
Data File : C:\HPCHEM\1\DATA\P05492.D
Acq On : 27 Jan 97 19:49
Sample : 9702303
Misc : B60234 H5970-3 1/27/97 5.0G

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

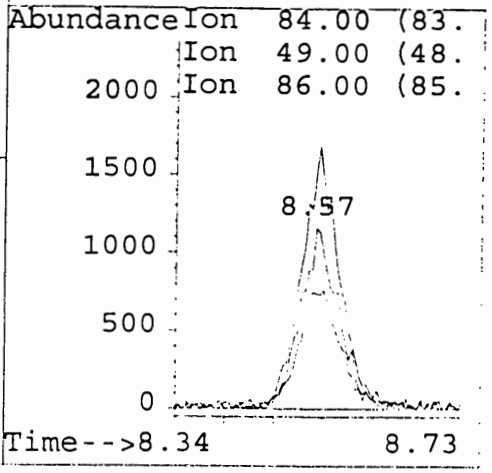
V 0115



#9
Methylene Chloride
Concen: 1.58 UG/L
RT: 8.57 min Scan# 707
Delta R.T. -0.03 min
Lab File: P05492.D
Acq: 27 Jan 97 7:49 pm

Tgt Ion:84 Resp: 4901

Ion	Ratio	Lower	Upper
84	100		
49	129.9	113.6	153.6
86	61.8	48.1	88.1
0	0.0	0.0	0.0



V 0119

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

A. INITIAL CALIBRATION FORM
B. STANDARD GC/MS CHROMATOGRAMS
C. DATA SYSTEM REPORT
D. CONTINUING CALIBRATION FORM
E. STANDARD GC/MS CHROMATOGRAMS
F. DATA SYSTEM REPORT

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Instrument ID: H5970-3 Calibration Date(s): 12/31/96 12/31/96

Heated Purge (Y/N): Y Calibration Times: 13:23 15:27

GC Column: RTX502.2 ID: 0.53 (mm)

LAB FILE ID: RRF10 = P05325.D RRF20 = P05326.D
RRF50 = P05327.D RRF100 = P05328.D RRF200 = P05329.D

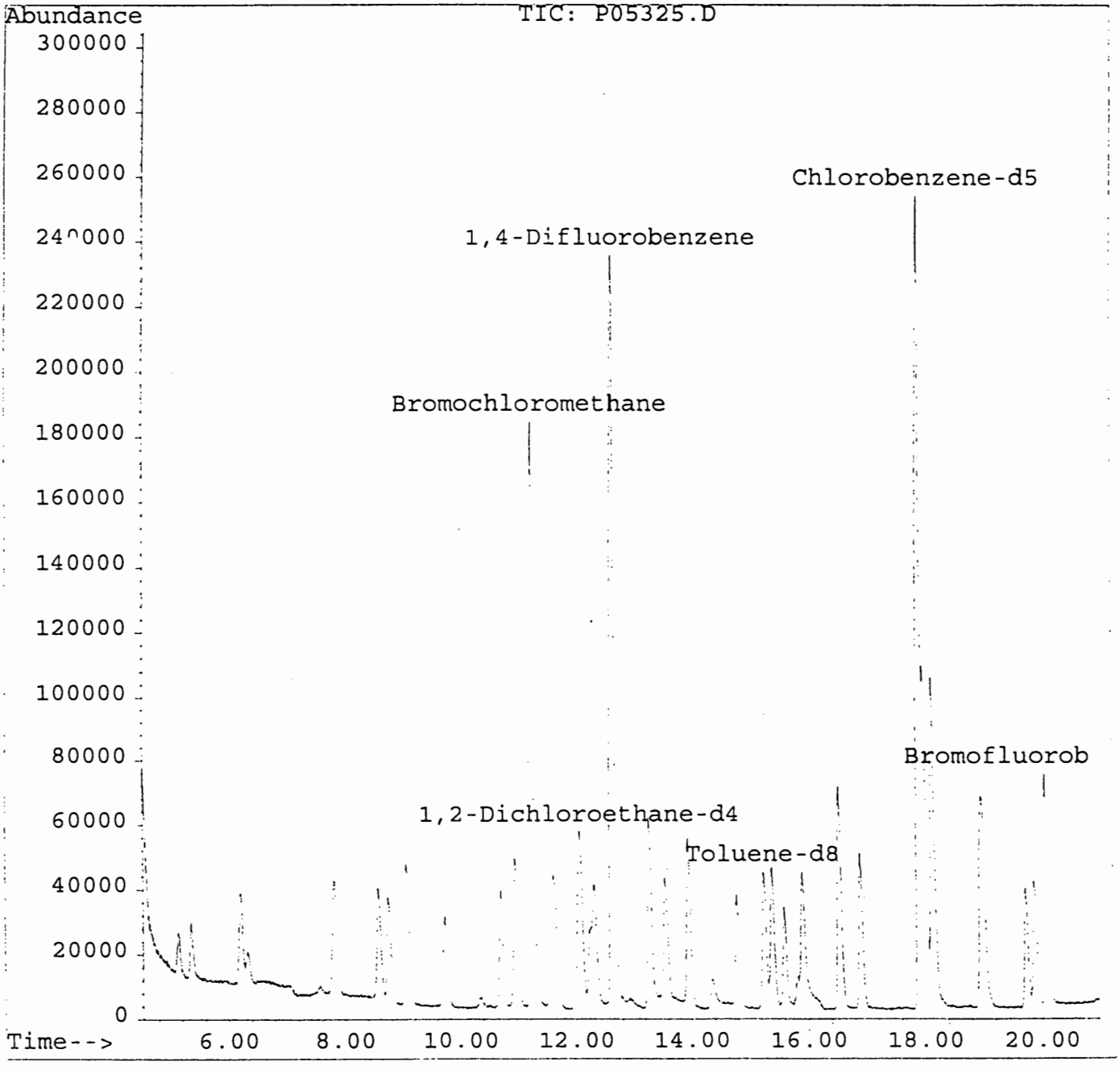
	COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
	Chloromethane	1.244	1.004	1.023	1.000	1.035	1.061	9.7	
*	Bromomethane	2.151	1.704	1.765	1.762	1.780	1.832	9.9	*
*	Vinyl Chloride	1.496	1.103	1.089	1.044	0.962	1.139	18.2	*
	Chloroethane	0.976	0.790	0.820	0.818	0.815	0.844	8.9	
	Methylene Chloride	1.705	1.534	1.469	1.510	1.473	1.538	6.3	
	Acetone	0.441	0.479	0.455	0.440	0.392	0.441	7.3	
	Carbon Disulfide	4.996	4.095	4.253	4.250	4.007	4.320	9.1	
*	1,1-Dichloroethene	1.852	1.414	1.470	1.497	1.342	1.515	13.0	*
*	1,1-Dichloroethane	3.215	2.829	2.893	2.967	2.674	2.916	6.8	*
	1,2-Dichloroethene (total)	1.980	1.577	1.616	1.644	1.458	1.655	11.8	
*	Chloroform	3.915	3.499	3.612	3.734	3.412	3.634	5.5	*
*	1,2-Dichloroethane	2.002	2.016	1.941	2.062	1.888	1.982	3.4	*
	2-Butanone	0.483	0.565	0.507	0.534	0.477	0.513	7.2	
*	1,1,1-Trichloroethane	0.914	0.900	0.912	0.934	0.859	0.904	3.1	*
*	Carbon Tetrachloride	0.843	0.854	0.867	0.903	0.791	0.852	4.8	*
*	Bromodichloromethane	0.963	1.147	1.153	1.195	1.098	1.111	8.1	*
	1,2-Dichloropropane	0.402	0.450	0.448	0.457	0.438	0.439	5.0	
*	cis-1,3-Dichloropropene	0.527	0.657	0.657	0.694	0.637	0.634	10.0	*
*	Trichloroethene	0.554	0.571	0.561	0.588	0.538	0.562	3.3	*
*	Benzene	0.873	0.928	0.935	0.939	0.877	0.910	3.6	*
*	Dibromochloromethane	0.677	0.914	0.881	0.936	0.890	0.860	12.1	*
*	trans-1,3-Dichloropropene	0.429	0.578	0.559	0.597	0.559	0.544	12.2	*
*	1,1,2-Trichloroethane	0.382	0.432	0.393	0.421	0.395	0.404	5.2	*
*	Bromoform	0.445	0.664	0.615	0.675	0.666	0.613	15.8	*
	4-Methyl-2-Pentanone	0.339	0.352	0.301	0.348	0.322	0.332	6.3	
	2-Hexanone	0.457	0.332	0.279	0.309	0.302	0.336	20.9	
*	Tetrachloroethene	0.613	0.661	0.665	0.688	0.573	0.640	7.2	*
*	1,1,2,2-Tetrachloroethane	0.885	0.912	0.789	0.872	0.821	0.856	5.8	*
*	Toluene	1.199	1.250	1.268	1.309	1.145	1.234	5.1	*
*	Chlorobenzene	1.127	1.115	1.104	1.138	1.026	1.102	4.0	*
*	Ethylbenzene	0.432	0.446	0.440	0.457	0.397	0.434	5.2	*
*	Styrene	0.877	0.893	0.910	0.968	0.888	0.907	4.0	*
*	Xylene (total)	0.504	0.548	0.533	0.561	0.514	0.532	4.4	*
	1,2-Dichloroethane-d4	1.470	1.461	1.343	1.385	1.325	1.397	4.8	
	Toluene-d8	1.091	1.039	1.045	1.056	1.017	1.050	2.6	
*	Bromofluorobenzene	0.952	0.900	0.879	0.898	0.905	0.907	3.0	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Data File : C:\HPCHEM\1\DATA\P05325.D
Acq On : 31 Dec 96 1:23 pm
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:58 1996

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0122

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05325.D
Acq On : 31 Dec 96 13:23
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:58 1996

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.26	128	109163	50.00	UG/L		0.14
21) 1,4-Difluorobenzene	12.65	114	423386	50.00	UG/L		0.13
33) Chlorobenzene-d5	17.92	117	317725	50.00	UG/L		0.16
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	32096	8.71	UG/L		
34) Toluene-d8	15.25	98	69294	10.38	UG/L		
43) Bromofluorobenzene	20.09	95	60489	9.31	UG/L		
Target Compounds							Qvalue
2) Chloromethane	5.14	50	27169	33.50	UG/L		93
3) Vinyl Chloride	5.36	62	32669	23.24	UG/L		98
4) Bromomethane	6.21	94	46967	17.97	UG/L		95
5) Chloroethane	6.33	64	21301	20.13	UG/L		98
6) 1,1-Dichloroethene	7.82	96	40433m	18.14	UG/L		89
7) Carbon Disulfide	8.75	76	109078	42.60	UG/L		95
8) Acetone	7.56	43	9624	7.38	UG/L		98
9) Methylene Chloride	8.59	84	37213	13.35	UG/L		95
13) trans-1,2-Dichloroethene	9.08	96	39750	15.15	UG/L		97
14) cis-,1,2-Dichloroethene	10.71	96	36965	10.79	UG/L		89
15) 1,2-Dichloroethene (total)	9.08	96	86466m	28.02	UG/L		94
16) 1,1-Dichloroethane	9.74	63	70186	12.47	UG/L		92
17) Chloroform	10.96	83	85468	9.19	UG/L		97
19) 1,2-Dichloroethane	12.25	62	43711	8.53	UG/L		93
20) 2-Butanone	10.36	43	10538	5.99	UG/L		66
22) 1,1,1-Trichloroethane	11.63	97	77433	7.94	UG/L		95
23) Carbon Tetrachloride	12.07	117	71387	7.38	UG/L		96
24) Trichloroethene	13.29	130	46897	8.95	UG/L		95
25) Benzene	12.34	78	73918	10.68	UG/L		99
26) 1,2-Dichloropropane	13.56	63	34007	9.80	UG/L		94
27) Bromodichloromethane	13.96	83	81528	6.52	UG/L		99
28) cis-1,3-Dichloropropene	14.79	75	44612	7.58	UG/L		96
29) trans-1,3-Dichloropropene	15.61	75	36316	6.33	UG/L		95
30) 1,1,2-Trichloroethane	15.92	97	32338	7.35	UG/L		90
31) Dibromochloromethane	16.91	129	57357	4.94	UG/L		96
32) Bromoform	19.74	173	37687	4.11	UG/L		98
35) 4-Methyl-2-Pentanone	14.36	43	21513	7.02	UG/L		99
36) Toluene	15.41	91	76212	9.79	UG/L		98
37) Tetrachloroethene	16.55	164	38938	8.94	UG/L		95
38) 2-Hexanone	15.81	43	29009m	9.13	UG/L		90
39) Chlorobenzene	18.00	112	71626	8.96	UG/L		84
40) Ethylbenzene	18.03	106	27455	8.86	UG/L	#	88
41) Xylene (total)	18.97	106	32035	8.22	UG/L	#	86

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0123

Data File : C:\HPCHEM\1\DATA\P05325.D
Acq On : 31 Dec 96 13:23
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:58 1996

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42)	Styrene	19.03	104	55713	7.96	UG/L	98
44)	m/p-Xylene	18.16	106	68209	17.87	UG/L	94
45)	1,1,2,2-Tetrachloroethane	19.89	83	56257	8.17	UG/L	93

(#) = qualifier out of range (m) = manual integration

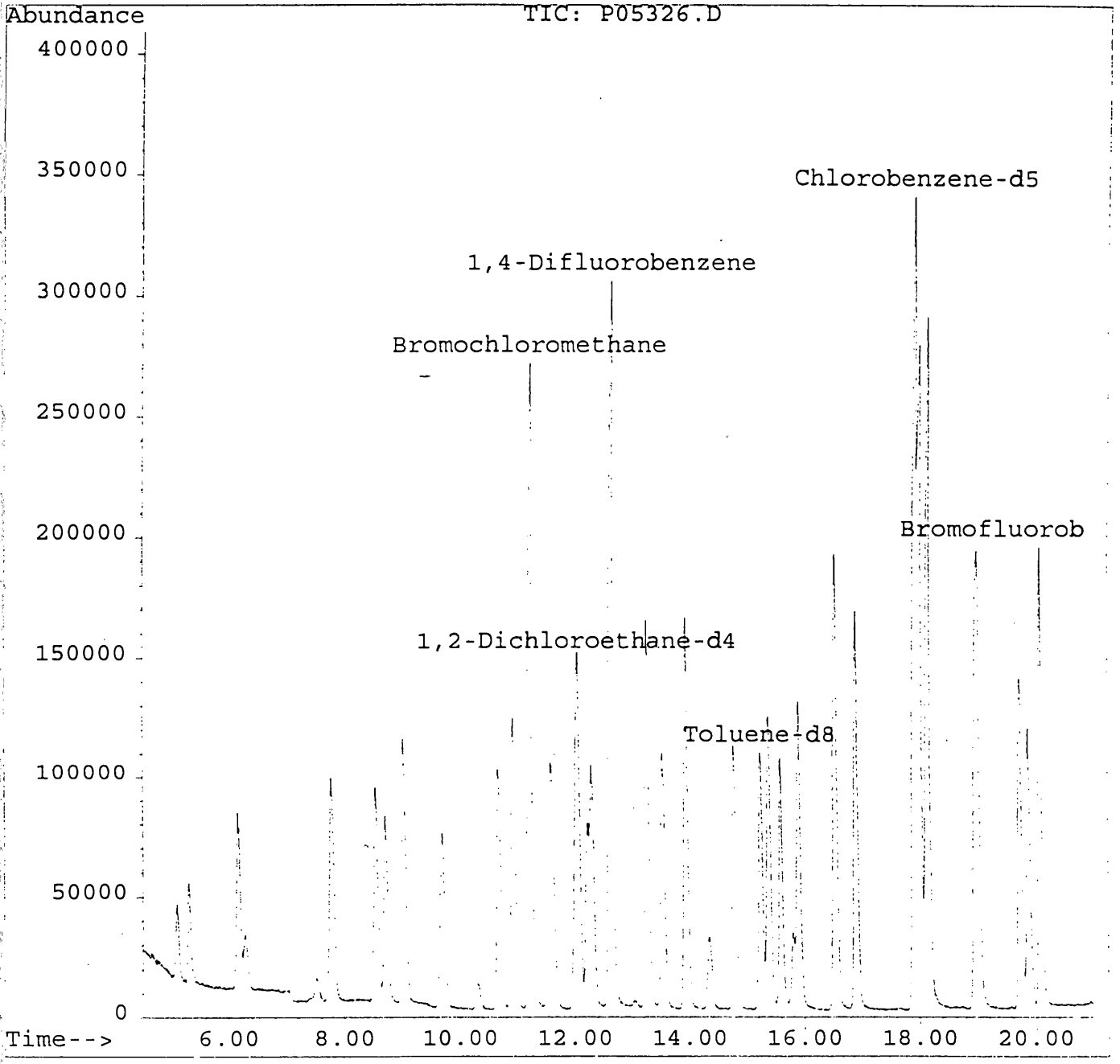
V 0124

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05326.D
Acq On : 31 Dec 96 1:54 pm
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:25 1996

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0125

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05326.D
Acq On : 31 Dec 96 13:54
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:25 1996

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	165771	50.00	UG/L	0.10
21) 1,4-Difluorobenzene	12.63	114	544949	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.92	117	432788	50.00	UG/L	0.16
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	96880	17.31	UG/L	
34) Toluene-d8	15.25	98	179910	19.78	UG/L	
43) Bromofluorobenzene	20.08	95	155838	17.61	UG/L	
Target Compounds						Qvalue
2) Chloromethane	5.12	50	66596	54.07	UG/L	93
3) Vinyl Chloride	5.32	62	73154	34.27	UG/L	99
4) Bromomethane	6.17	94	113004	28.47	UG/L	97
5) Chloroethane	6.29	64	52362	32.59	UG/L	100
6) 1,1-Dichloroethene	7.79	96	93785	27.71	UG/L	90
7) Carbon Disulfide	8.72	76	271517	69.82	UG/L	97
8) Acetone	7.53	43	31781	16.04	UG/L	89
9) Methylene Chloride	8.56	84	101725	24.03	UG/L	97
13) trans-1,2-Dichloroethene	9.04	96	98189	24.65	UG/L	94
14) cis-,1,2-Dichloroethene	10.68	96	102471	19.71	UG/L	91
15) 1,2-Dichloroethene (total)	10.68	96	209107m	44.63	UG/L	91
16) 1,1-Dichloroethane	9.71	63	187565	21.95	UG/L	94
17) Chloroform	10.94	83	232008	16.42	UG/L	94
19) 1,2-Dichloroethane	12.24	62	133674	17.17	UG/L	96
20) 2-Butanone	10.32	43	37466	14.03	UG/L	97
22) 1,1,1-Trichloroethane	11.60	97	196074	15.62	UG/L	94
23) Carbon Tetrachloride	12.04	117	186113	14.95	UG/L	91
24) Trichloroethene	13.27	130	124399	18.44	UG/L	97
25) Benzene	12.30	78	202353	22.72	UG/L	98
26) 1,2-Dichloropropane	13.54	63	97992	21.94	UG/L	95
27) Bromodichloromethane	13.95	83	250008	15.53	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	143214	18.90	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	125875	17.06	UG/L	95
30) 1,1,2-Trichloroethane	15.91	97	94066	16.60	UG/L	94
31) Dibromochloromethane	16.90	129	199214	13.34	UG/L	99
32) Bromoform	19.74	173	144770	12.25	UG/L	97
35) 4-Methyl-2-Pentanone	14.35	43	60999	14.62	UG/L	93
36) Toluene	15.39	91	216400	20.41	UG/L	98
37) Tetrachloroethene	16.55	164	114448	19.30	UG/L	91
38) 2-Hexanone	15.81	43	57477	13.29	UG/L	93
39) Chlorobenzene	17.99	112	193003	17.73	UG/L	85
40) Ethylbenzene	18.02	106	77149	18.28	UG/L	93
41) Xylene (total)	18.97	106	94926	17.88	UG/L	97

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0126

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05326.D
Acq On : 31 Dec 96 13:54
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:25 1996

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42)	Styrene	19.02	104	154616	16.21	UG/L	95
44)	m/p-Xylene	18.15	106	186624	35.90	UG/L	94
45)	1,1,2,2-Tetrachloroethane	19.89	83	157818	16.82	UG/L	92

(#) = qualifier out of range (m) = manual integration

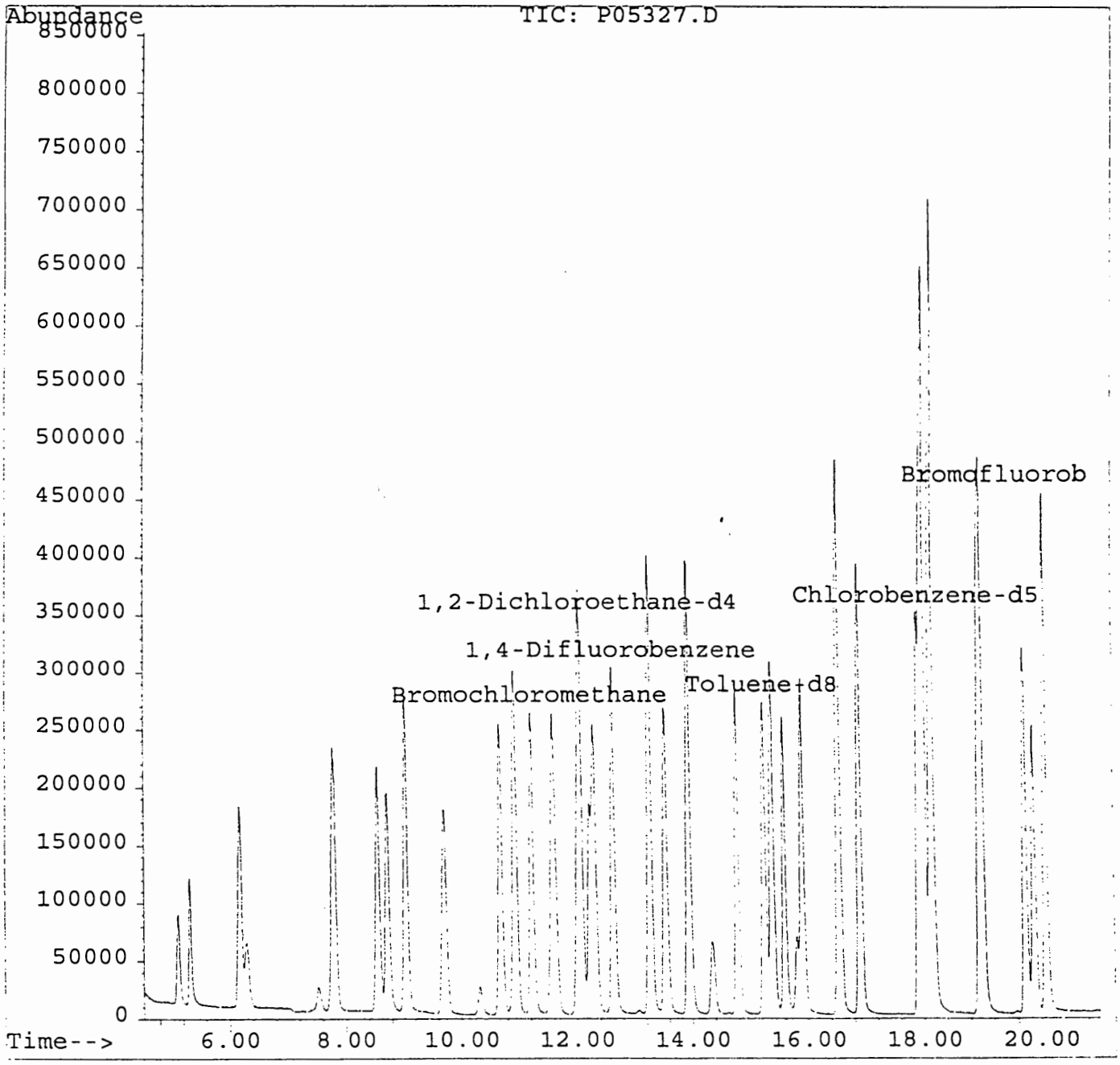
V 0127

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D
Acq On : 31 Dec 96 2:25 pm
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:26 1996

Vial: 11
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0125

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D
Acq On : 31 Dec 96 14:25
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:26 1996

Vial: 11
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.22	128	160031	50.00	UG/L		0.11
21) 1,4-Difluorobenzene	12.64	114	543573	50.00	UG/L		0.12
33) Chlorobenzene-d5	17.91	117	426386	50.00	UG/L		0.15
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	214961	39.79	UG/L		
34) Toluene-d8	15.25	98	445738	49.75	UG/L		
43) Bromofluorobenzene	20.09	95	374832	42.99	UG/L	#	
Target Compounds							Qvalue
2) Chloromethane	5.12	50	163743	137.71	UG/L		93
3) Vinyl Chloride	5.32	62	174221	84.54	UG/L		99
4) Bromomethane	6.17	94	282476	73.72	UG/L		98
5) Chloroethane	6.30	64	131232	84.60	UG/L		99
6) 1,1-Dichloroethene	7.79	96	235264	72.00	UG/L	#	86
7) Carbon Disulfide	8.73	76	680574	181.29	UG/L		96
8) Acetone	7.52	43	72851	38.09	UG/L		90
9) Methylene Chloride	8.56	84	235103	57.54	UG/L		99
13) trans-1,2-Dichloroethene	9.04	96	250025	65.02	UG/L		96
14) cis-,1,2-Dichloroethene	10.68	96	257229	51.24	UG/L		90
15) 1,2-Dichloroethene (total)	9.04	96	517169m	114.33	UG/L		91
16) 1,1-Dichloroethane	9.70	63	462925	56.13	UG/L		92
17) Chloroform	10.93	83	578022	42.39	UG/L		94
19) 1,2-Dichloroethane	12.22	62	310688	41.34	UG/L		96
20) 2-Butanone	10.33	43	81206	31.51	UG/L		96
22) 1,1,1-Trichloroethane	11.60	97	495768	39.61	UG/L		94
23) Carbon Tetrachloride	12.04	117	471511	37.97	UG/L		93
24) Trichloroethene	13.27	130	305092	45.34	UG/L		97
25) Benzene	12.30	78	508057	57.20	UG/L		99
26) 1,2-Dichloropropane	13.55	63	243355	54.62	UG/L		94
27) Bromodichloromethane	13.94	83	626644	39.03	UG/L		98
28) cis-1,3-Dichloropropene	14.78	75	357066	47.24	UG/L		96
29) trans-1,3-Dichloropropene	15.60	75	303749	41.26	UG/L		95
30) 1,1,2-Trichloroethane	15.91	97	213720	37.82	UG/L		94
31) Dibromochloromethane	16.91	129	478838	32.14	UG/L		98
32) Bromoform	19.73	173	334238	28.36	UG/L		98
35) 4-Methyl-2-Pentanone	14.35	43	128448	31.25	UG/L		97
36) Toluene	15.38	91	540683	51.76	UG/L		98
37) Tetrachloroethene	16.54	164	283683	48.55	UG/L		99
38) 2-Hexanone	15.81	43	119153	27.95	UG/L		98
39) Chlorobenzene	17.99	112	470848	43.90	UG/L		87
40) Ethylbenzene	18.02	106	187463	45.07	UG/L	#	81
41) Xylene (total)	18.97	106	227434	43.49	UG/L	#	77

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0129

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D Vial: 11
Acq On : 31 Dec 96 14:25 Operator: GLENN
Sample : VSTD050 Inst : 5970 - In
Misc : H5970-3 12/31/96 Multiplr: 1.00
Quant Time: Dec 31 15:26 1996

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42)	Styrene	19.01	104	388085	41.31	UG/L	92
44)	m/p-Xylene	18.15	106	472616	92.27	UG/L	91
45)	1,1,2,2-Tetrachloroethane	19.88	83	336208	36.38	UG/L	91

(#) = qualifier out of range (m) = manual integration

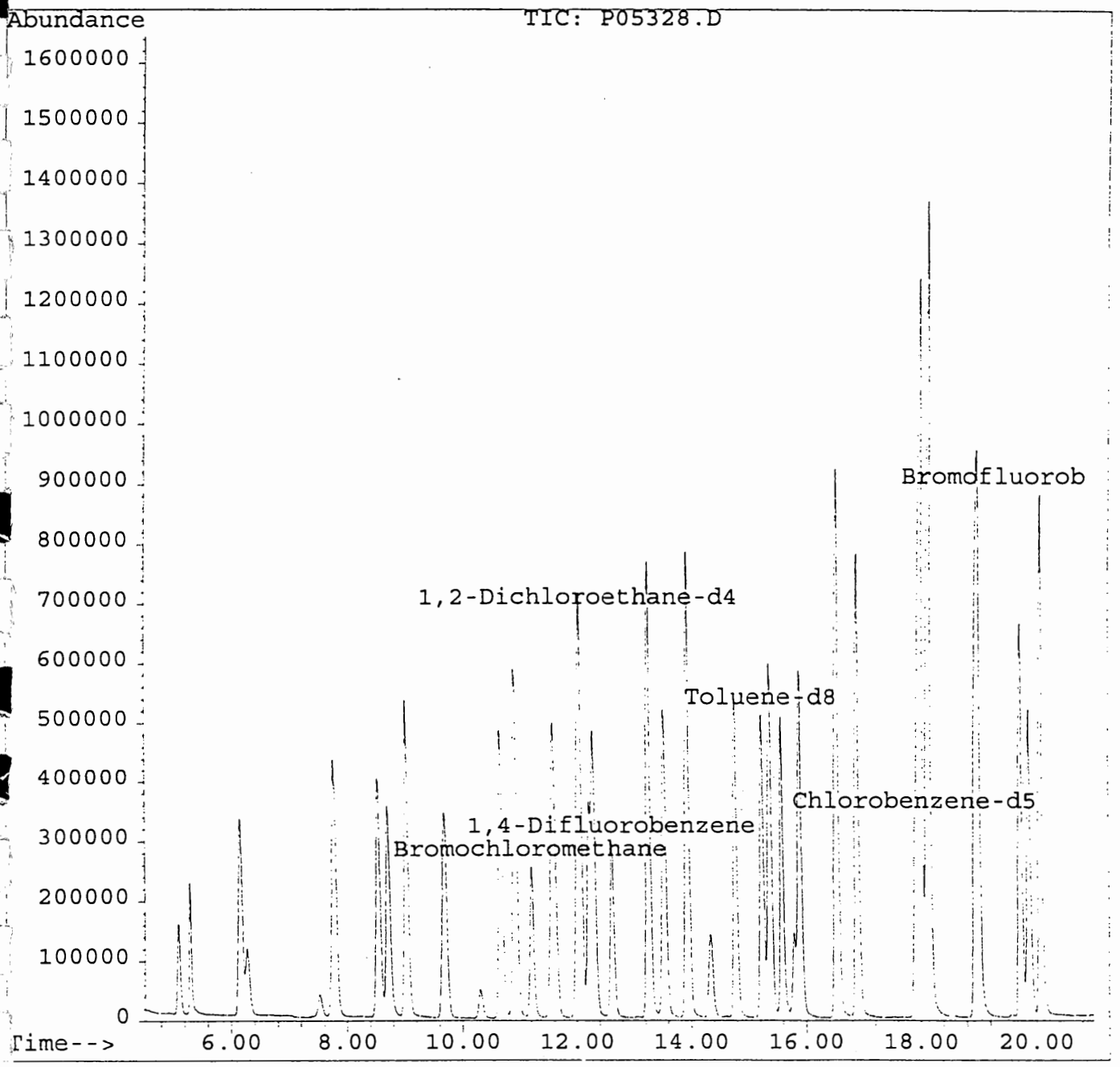
V 0130

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D
Acq On : 31 Dec 96 2:56 pm
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:27 1996

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 01131

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D
Acq On : 31 Dec 96 14:56
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:27 1996

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	153530	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.62	114	515151	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.91	117	400942	50.00	UG/L	0.15
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	425320	82.07	UG/L	
34) Toluene-d8	15.25	98	847130	100.55	UG/L	
43) Bromofluorobenzene	20.08	95	720083	87.84	UG/L	
Target Compounds						Qvalue
2) Chloromethane	5.12	50	306958	269.09	UG/L	94
3) Vinyl Chloride	5.31	62	320675	162.20	UG/L	100
4) Bromomethane	6.16	94	540918	147.14	UG/L	98
5) Chloroethane	6.28	64	251025	168.68	UG/L	98
6) 1,1-Dichloroethene	7.78	96	459625	146.63	UG/L	89
7) Carbon Disulfide	8.72	76	1305109	362.38	UG/L	95
8) Acetone	7.53	43	135040	73.60	UG/L	91
9) Methylene Chloride	8.55	84	463576	118.25	UG/L	95
13) trans-1,2-Dichloroethene	9.03	96	486625	131.90	UG/L	96
14) cis-,1,2-Dichloroethene	10.67	96	507760	105.43	UG/L	92
15) 1,2-Dichloroethene (total)	10.67	96	1009753m	232.68	UG/L	97
16) 1,1-Dichloroethane	9.69	63	911138	115.14	UG/L	96
17) Chloroform	10.92	83	1146559	87.64	UG/L	93
19) 1,2-Dichloroethane	12.22	62	633046	87.80	UG/L	93
20) 2-Butanone	10.31	43	164103	66.37	UG/L	97
22) 1,1,1-Trichloroethane	11.59	97	961876	81.08	UG/L	97
23) Carbon Tetrachloride	12.04	117	930523	79.06	UG/L	94
24) Trichloroethene	13.27	130	605692	94.99	UG/L	95
25) Benzene	12.30	78	966958	114.87	UG/L	99
26) 1,2-Dichloropropane	13.53	63	470744	111.48	UG/L	94
27) Bromodichloromethane	13.94	83	1231089	80.91	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	714759	99.77	UG/L	97
29) trans-1,3-Dichloropropene	15.59	75	615207	88.18	UG/L	94
30) 1,1,2-Trichloroethane	15.90	97	434107	81.06	UG/L	95
31) Dibromochloromethane	16.89	129	964667	68.31	UG/L	95
32) Bromoform	19.73	173	695850	62.31	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	279042	72.19	UG/L	96
36) Toluene	15.38	91	1049404	106.83	UG/L	98
37) Tetrachloroethene	16.54	164	551491	100.37	UG/L	99
38) 2-Hexanone	15.80	43	247368	61.72	UG/L	98
39) Chlorobenzene	17.99	112	912723	90.50	UG/L	88
40) Ethylbenzene	18.02	106	366224	93.64	UG/L #	80
41) Xylene (total)	18.97	106	449495	91.41	UG/L #	84

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0132

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D
Acq On : 31 Dec 96 14:56
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:27 1996

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42)	Styrene	19.02	104	775922	87.83	UG/L	93
44)	m/p-Xylene	18.15	106	914717	189.92	UG/L	95
45)	1,1,2,2-Tetrachloroethane	19.88	83	699283	80.47	UG/L	95

(#) = qualifier out of range (m) = manual integration

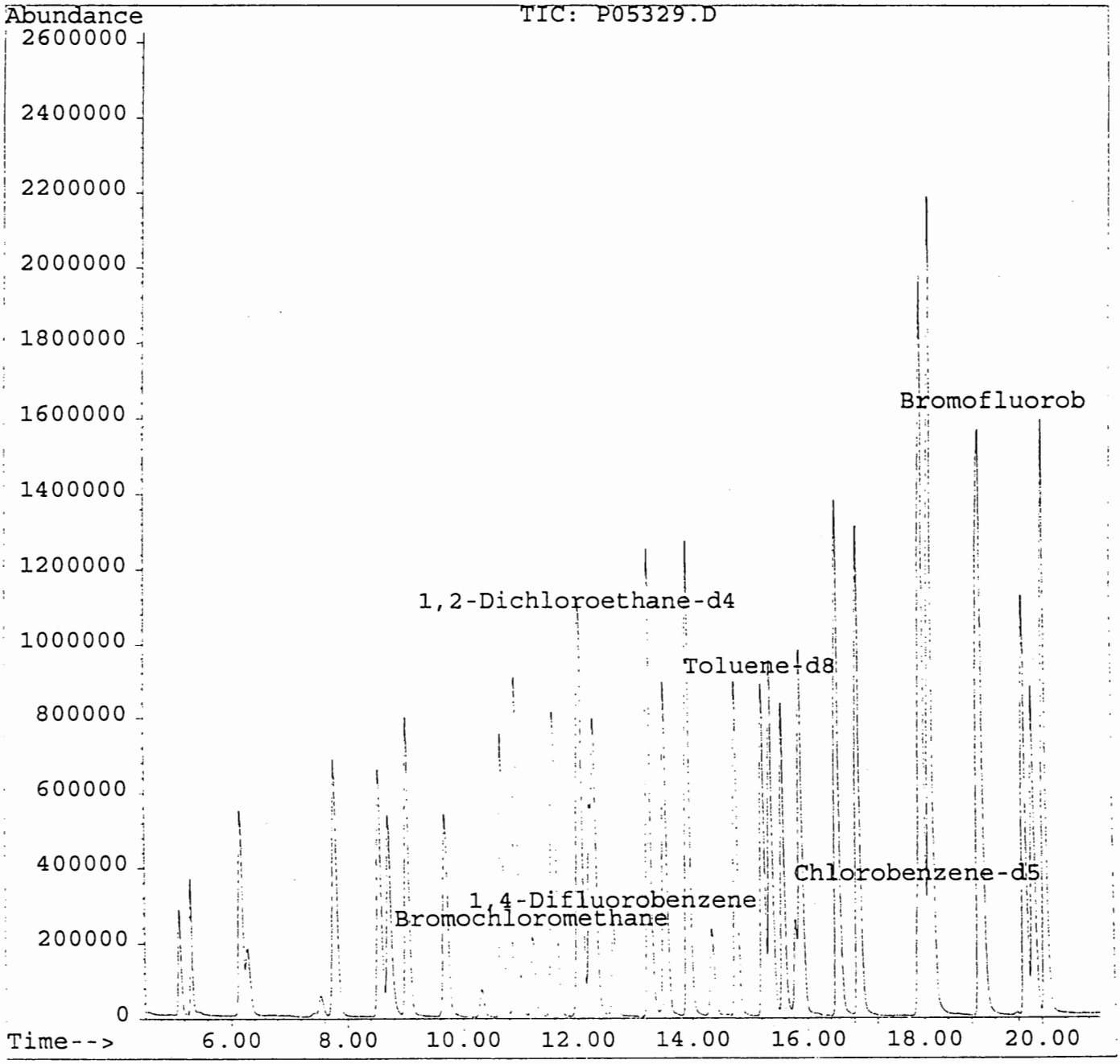
V 01333

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05329.D
Acq On : 31 Dec 96 3:27 pm
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:54 1996

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0134

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05329.D
Acq On : 31 Dec 96 15:27
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:54 1996

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.22	128	130356	50.00	UG/L		0.11
21) 1,4-Difluorobenzene	12.64	114	462132	50.00	UG/L		0.12
33) Chlorobenzene-d5	17.91	117	364829	50.00	UG/L		0.15
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	690794	157.00	UG/L		
34) Toluene-d8	15.25	98	1483978	193.57	UG/L		
43) Bromofluorobenzene	20.08	95	1320691	177.05	UG/L		
Target Compounds							Qvalue
2) Chloromethane	5.13	50	539905	557.43	UG/L		93
3) Vinyl Chloride	5.33	62	501691	298.87	UG/L		100
4) Bromomethane	6.17	94	927896	297.27	UG/L		99
5) Chloroethane	6.30	64	424956	336.32	UG/L		97
6) 1,1-Dichloroethene	7.79	96	699768	262.92	UG/L	#	88
7) Carbon Disulfide	8.73	76	2089241	683.23	UG/L		94
8) Acetone	7.55	43	204154	131.06	UG/L		88
9) Methylene Chloride	8.57	84	767869	230.69	UG/L		93
13) trans-1,2-Dichloroethene	9.05	96	731493	233.52	UG/L		97
14) cis-,1,2-Dichloroethene	10.68	96	768317	187.89	UG/L		92
15) 1,2-Dichloroethene (total)	10.68	96	1520793m	412.74	UG/L		94
16) 1,1-Dichloroethane	9.70	63	1394477	207.55	UG/L		97
17) Chloroform	10.94	83	1778880	160.14	UG/L		95
19) 1,2-Dichloroethane	12.23	62	984221	160.78	UG/L		95
20) 2-Butanone	10.32	43	248637	118.44	UG/L		96
22) 1,1,1-Trichloroethane	11.60	97	1586964	149.13	UG/L		96
23) Carbon Tetrachloride	12.05	117	1463009	138.57	UG/L		89
24) Trichloroethene	13.26	130	993648	173.71	UG/L		96
25) Benzene	12.31	78	1621637	214.74	UG/L		99
26) 1,2-Dichloropropane	13.55	63	810012	213.84	UG/L		94
27) Bromodichloromethane	13.95	83	2028675	148.63	UG/L		96
28) cis-1,3-Dichloropropene	14.78	75	1177066	183.16	UG/L		96
29) trans-1,3-Dichloropropene	15.59	75	1033739	165.16	UG/L		93
30) 1,1,2-Trichloroethane	15.91	97	729180	151.79	UG/L		95
31) Dibromochloromethane	16.91	129	1645590	129.90	UG/L		100
32) Bromoform	19.74	173	1230643	122.84	UG/L		98
35) 4-Methyl-2-Pentanone	14.35	43	469585	133.50	UG/L		95
36) Toluene	15.39	91	1671037	186.95	UG/L		97
37) Tetrachloroethene	16.54	164	836252	167.26	UG/L		99
38) 2-Hexanone	15.81	43	440020	120.65	UG/L		96
39) Chlorobenzene	17.98	112	1497326	163.16	UG/L		94
40) Ethylbenzene	18.02	106	579355	162.81	UG/L	#	77
41) Xylene (total)	18.96	106	750039	167.63	UG/L		90

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0135

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05329.D
Acq On : 31 Dec 96 15:27
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:54 1996

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Styrene	19.01	104	1296307	161.26 UG/L	95
44) m/p-Xylene	18.15	106	1499552	342.16 UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.88	83	1198209	151.53 UG/L	97

(#) = qualifier out of range (m) = manual integration

V 0136

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Instrument ID: H5970-3 Calibration Date(s): 12/31/96 12/31/96

Heated Purge (Y/N): N Calibration Times: 11:19 16:42

GC Column: RTX502.2 ID: 0.53 (mm)

LAB FILE ID: RRF10 = P05330.D RRF20 = P05321.D
RRF50 = P05322.D RRF100 = P05323.D RRF200 = P05324.D

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Chloromethane		1.166	1.404	1.270	1.271	1.247	1.272	6.7	
Bromomethane	*	2.191	2.126	2.023	2.075	2.063	2.096	3.1	*
Vinyl Chloride	*	1.436	1.549	1.376	1.314	1.278	1.391	7.7	*
Chloroethane		0.983	1.029	0.958	0.964	0.947	0.976	3.3	
Methylene Chloride		1.752	1.660	1.613	1.618	1.564	1.641	4.3	
Acetone		0.444	0.384	0.302	0.290	0.289	0.342	20.2	
Carbon Disulfide		4.917	4.980	4.938	5.055	4.994	4.977	1.1	
1,1-Dichloroethene	*	1.784	1.776	1.687	1.755	1.691	1.739	2.7	*
1,1-Dichloroethane	*	3.319	3.319	3.266	3.324	3.314	3.308	0.7	*
1,2-Dichloroethene (total)		2.009	1.854	1.794	1.823	1.814	1.859	4.7	
Chloroform	*	4.216	3.992	3.985	4.089	3.990	4.054	2.5	*
1,2-Dichloroethane	*	1.972	1.983	2.003	2.016	2.041	2.003	1.4	*
2-Butanone		0.473	0.364	0.352	0.327	0.317	0.367	17.0	
1,1,1-Trichloroethane	*	0.964	0.944	0.946	0.916	0.959	0.946	2.0	*
Carbon Tetrachloride	*	0.923	0.912	0.911	0.899	0.915	0.912	1.0	*
Bromodichloromethane	*	1.067	1.068	1.126	1.113	1.128	1.100	2.8	*
1,2-Dichloropropane		0.436	0.446	0.449	0.440	0.447	0.443	1.2	
cis-1,3-Dichloropropene	*	0.599	0.614	0.652	0.622	0.660	0.629	4.1	*
Trichloroethene	*	0.640	0.645	0.579	0.572	0.596	0.606	5.6	*
Benzene	*	0.984	0.953	0.965	0.938	0.977	0.963	1.9	*
Dibromochloromethane	*	0.732	0.749	0.807	0.794	0.802	0.777	4.4	*
trans-1,3-Dichloropropene	*	0.457	0.487	0.520	0.458	0.540	0.492	7.5	*
1,1,2-Trichloroethane	*	0.353	0.344	0.362	0.346	0.358	0.353	2.2	*
Bromoform	*	0.464	0.456	0.531	0.520	0.545	0.503	8.1	*
4-Methyl-2-Pentanone		0.374	0.227	0.231	0.211	0.231	0.255	26.4	
2-Hexanone		0.290	0.201	0.192	0.167	0.210	0.212	22.0	
Tetrachloroethene	*	0.744	0.725	0.716	0.715	0.724	0.725	1.6	*
1,1,2,2-Tetrachloroethane	*	0.671	0.417	0.712	0.668	0.696	0.633	19.2	*
Toluene	*	1.380	1.348	1.332	1.342	1.391	1.359	1.9	*
Chlorobenzene	*	1.219	1.164	1.162	1.163	1.169	1.175	2.1	*
Ethylbenzene	*	0.477	0.478	0.464	0.463	0.489	0.474	2.2	*
Styrene	*	0.956	0.929	0.947	0.966	0.991	0.958	2.4	*
Xylene (total)	*	0.575	0.582	0.574	0.579	0.590	0.580	1.1	*
1,2-Dichloroethane-d4		1.386	1.301	1.341	1.348	1.371	1.349	2.4	
Toluene-d8		1.092	1.085	1.095	1.096	1.176	1.109	3.4	
Bromofluorobenzene	*	0.905	0.859	0.888	0.880	0.930	0.892	3.0	*

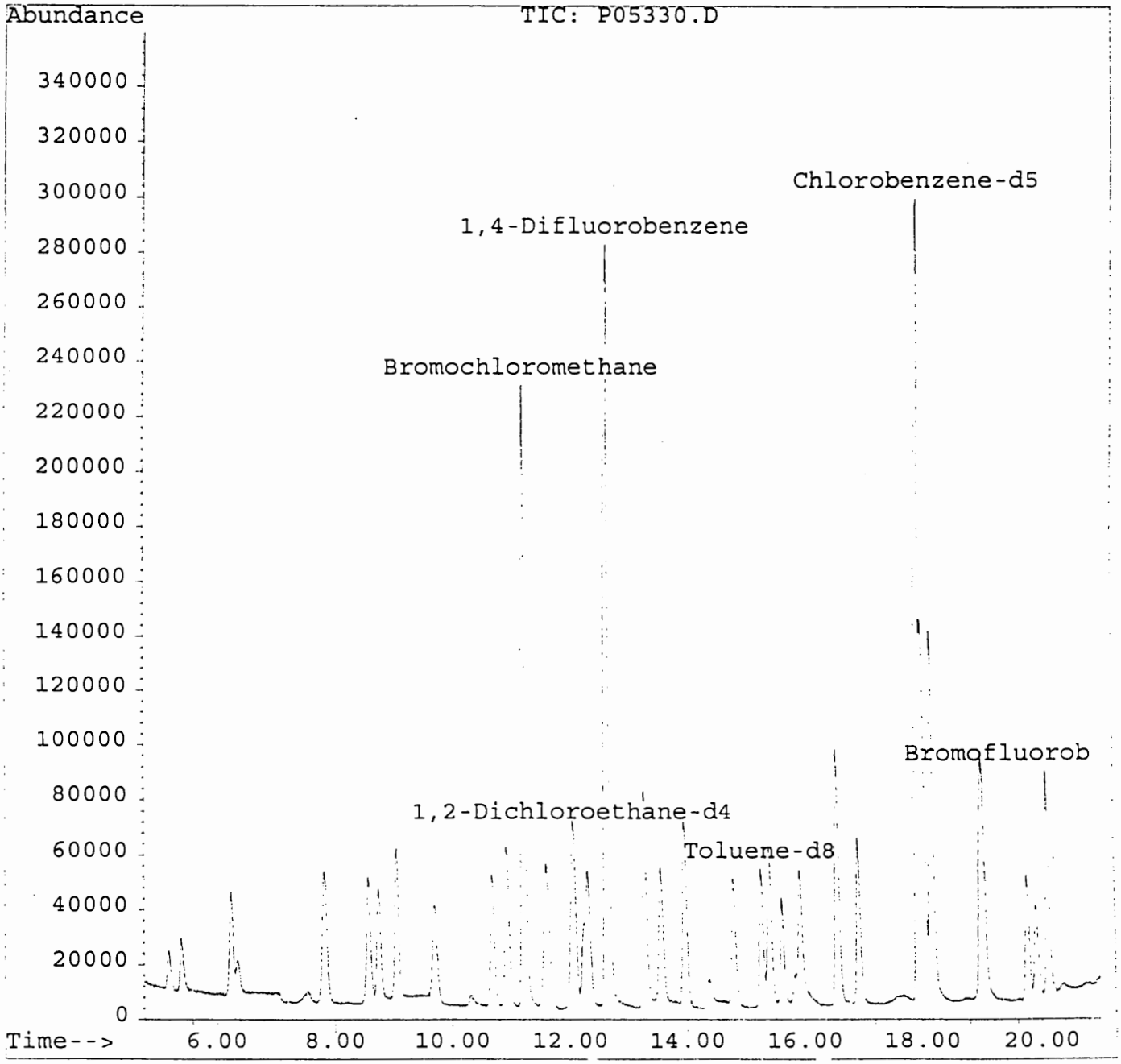
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05330.D
Acq On : 31 Dec 96 4:42 pm
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Jan 2 8:43 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0135

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05330.D
Acq On : 31 Dec 96 16:42
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Jan 2 8:43 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Dec 31 15:20:47 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05322.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.24	128	136095	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	12.65	114	510750	50.00	UG/L		0.00
33) Chlorobenzene-d5	17.96	117	378876	50.00	UG/L		0.02
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	37724	10.34	UG/L		20.67%
34) Toluene-d8	15.27	98	82748	9.98	UG/L		19.95%
43) Bromofluorobenzene	20.12	95	68568	10.20	UG/L		20.39%
Target Compounds							Qvalue
2) Chloromethane	5.21	50	31746	9.18	UG/L		91
3) Vinyl Chloride	5.42	62	39080	10.43	UG/L		100
4) Bromomethane	6.25	94	59631	10.83	UG/L		100
5) Chloroethane	6.37	64	26766	10.26	UG/L		99
6) 1,1-Dichloroethene	7.83	96	48555	10.57	UG/L	#	85
7) Carbon Disulfide	8.75	76	133824	9.96	UG/L		96
8) Acetone	7.56	43	12079	14.69	UG/L		87
9) Methylene Chloride	8.58	84	47691	10.87	UG/L		97
13) trans-1,2-Dichloroethene	9.06	96	48892	10.33	UG/L		97
14) cis-,1,2-Dichloroethene	10.68	96	51540	10.69	UG/L		91
15) 1,2-Dichloroethene (total)	10.68	96	109352m	22.39	UG/L		88
16) 1,1-Dichloroethane	9.72	63	90327	10.16	UG/L		93
17) Chloroform	10.94	83	114751	10.58	UG/L		93
19) 1,2-Dichloroethane	12.25	62	53679	9.84	UG/L		89
20) 2-Butanone	10.31	43	12873	13.42	UG/L		80
22) 1,1,1-Trichloroethane	11.61	97	98449	10.19	UG/L		95
23) Carbon Tetrachloride	12.07	117	94321	10.14	UG/L		92
24) Trichloroethene	13.29	130	65323	11.04	UG/L		98
25) Benzene	12.33	78	100535	10.20	UG/L		97
26) 1,2-Dichloropropane	13.57	63	44540	9.70	UG/L		97
27) Bromodichloromethane	13.97	83	109029	9.48	UG/L		97
28) cis-1,3-Dichloropropene	14.81	75	61146	9.18	UG/L		97
29) trans-1,3-Dichloropropene	15.63	75	46708	8.79	UG/L		97
30) 1,1,2-Trichloroethane	15.94	97	36039	9.73	UG/L		95
31) Dibromochloromethane	16.93	129	74780	9.07	UG/L		97
32) Bromoform	19.77	173	47437	8.75	UG/L		98
35) 4-Methyl-2-Pentanone	14.38	43	28326	16.17	UG/L		96
36) Toluene	15.42	91	104541	10.36	UG/L		100
37) Tetrachloroethene	16.57	164	56376	10.39	UG/L		98
38) 2-Hexanone	15.84	43	21998	15.09	UG/L		97
39) Chlorobenzene	18.03	112	92355	10.49	UG/L		91
40) Ethylbenzene	18.05	106	36131	10.27	UG/L	#	85
41) Xylene (total)	19.01	106	43571	10.02	UG/L		95

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0133

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05330.D
Acq On : 31 Dec 96 16:42
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Jan 2 8:43 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Dec 31 15:20:47 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05322.D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42)	Styrene	19.05	104	72469	10.09 UG/L	91
44)	m/p-Xylene	18.18	106	90872	20.53 UG/L	97
45)	1,1,2,2-Tetrachloroethane	19.92	83	50813	9.42 UG/L	93

(#) = qualifier out of range (m) = manual integration

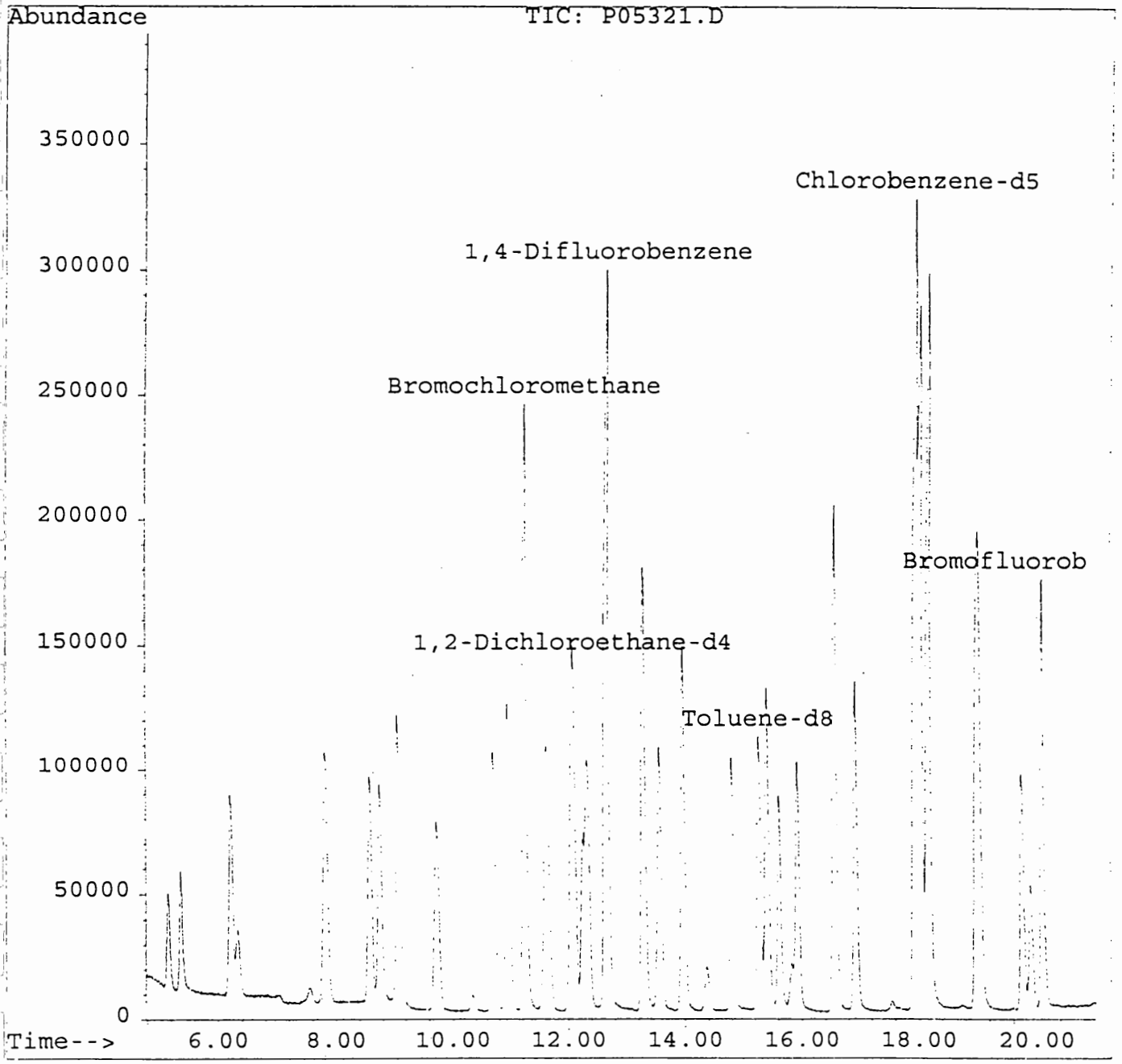
V 01410

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05321.D
Acq On : 31 Dec 96 11:19 am
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:20 1996

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0141

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05321.D
Acq On : 31 Dec 96 11:19
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:20 1996

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	147473	50.00	UG/L	0.21
21) 1,4-Difluorobenzene	12.65	114	543161	50.00	UG/L	0.19
33) Chlorobenzene-d5	17.94	117	418359	50.00	UG/L	0.22
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	76766	17.84	UG/L	35.67%
34) Toluene-d8	15.27	98	181551	23.03	UG/L	46.05%
43) Bromofluorobenzene	20.10	95	143746	19.02	UG/L	38.05%
Target Compounds						Qvalue
2) Chloromethane	5.15	50	82833	46.61	UG/L	95
3) Vinyl Chloride	5.37	62	91359	34.08	UG/L	99
4) Bromomethane	6.20	94	125403	25.20	UG/L	97
5) Chloroethane	6.33	64	60673	34.08	UG/L	98
6) 1,1-Dichloroethene	7.82	96	104769	24.40	UG/L	88
7) Carbon Disulfide	8.75	76	293769	30.07	UG/L	98
8) Acetone	7.56	43	22654m	17.94	UG/L	80
9) Methylene Chloride	8.58	84	97906	23.54	UG/L	98
13) trans-1,2-Dichloroethene	9.06	96	104245	22.73	UG/L	96
14) cis-,1,2-Dichloroethene	10.71	96	108393	22.39	UG/L	91
15) 1,2-Dichloroethene (total)	9.06	96	218780m	45.42	UG/L	93
16) 1,1-Dichloroethane	9.72	63	195805	24.83	UG/L	98
17) Chloroform	10.95	83	235463	21.06	UG/L	95
19) 1,2-Dichloroethane	12.24	62	116993	19.11	UG/L	96
20) 2-Butanone	10.33	43	21482	16.03	UG/L	80
22) 1,1,1-Trichloroethane	11.63	97	205188m	19.13	UG/L	97
23) Carbon Tetrachloride	12.06	117	198187	17.66	UG/L	93
24) Trichloroethene	13.28	130	140161	21.26	UG/L	98
25) Benzene	12.34	78	207031	23.87	UG/L	98
26) 1,2-Dichloropropane	13.56	63	96832	26.08	UG/L	97
27) Bromodichloromethane	13.97	83	232063	19.28	UG/L	98
28) cis-1,3-Dichloropropene	14.80	75	133414	21.72	UG/L	97
29) trans-1,3-Dichloropropene	15.61	75	105703	19.54	UG/L	95
30) 1,1,2-Trichloroethane	15.93	97	74748	19.17	UG/L	92
31) Dibromochloromethane	16.92	129	162677	15.76	UG/L	100
32) Bromoform	19.74	173	98974	14.27	UG/L	98
35) 4-Methyl-2-Pentanone	14.37	43	37911	17.54	UG/L	99
36) Toluene	15.41	91	225627	22.51	UG/L	98
37) Tetrachloroethene	16.56	164	121269	21.00	UG/L	97
38) 2-Hexanone	15.83	43	33557	15.90	UG/L	93
39) Chlorobenzene	18.00	112	194787	21.71	UG/L	88
40) Ethylbenzene	18.04	106	79950	22.39	UG/L #	84
41) Xylene (total)	18.99	106	97417	21.97	UG/L	94

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0142

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05321.D
Acq On : 31 Dec 96 11:19
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:20 1996

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42)	Styrene	19.03	104	155439	20.15	UG/L	99
44)	m/p-Xylene	18.16	106	194421	43.43	UG/L	98
45)	1,1,2,2-Tetrachloroethane	19.90	83	69849	14.04	UG/L	91

(#) = qualifier out of range (m) = manual integration

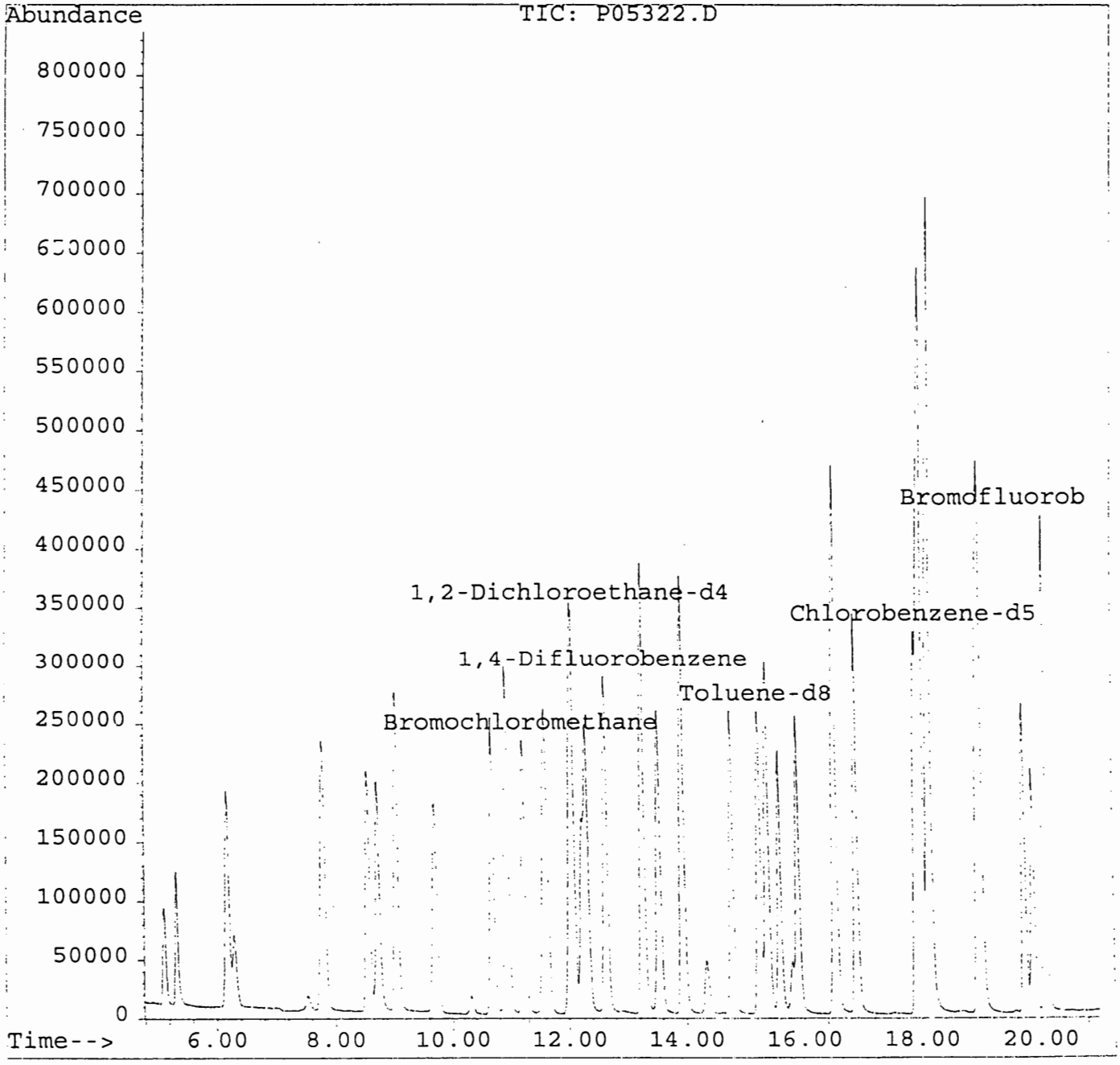
VOA

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05322.D
Acq On : 31 Dec 96 11:50 am
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:38 1996

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



01111

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05322.D
Acq On : 31 Dec 96 11:50
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:38 1996

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.23	128	142680	50.00	UG/L		0.19
21) 1,4-Difluorobenzene	12.63	114	517138	50.00	UG/L		0.17
33) Chlorobenzene-d5	17.92	117	393234	50.00	UG/L		0.20
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	191320	45.94	UG/L		91.89%
34) Toluene-d8	15.25	98	430425	58.08	UG/L		116.16%
43) Bromofluorobenzene	20.08	95	349018	49.14	UG/L		98.28%
Target Compounds							Qvalue
2) Chloromethane	5.12	50	181266	105.42	UG/L		91
3) Vinyl Chloride	5.33	62	196351	75.70	UG/L		99
4) Bromomethane	6.18	94	288624	59.96	UG/L		98
5) Chloroethane	6.30	64	136722	79.38	UG/L		96
6) 1,1-Dichloroethene	7.80	96	240717	57.95	UG/L	#	87
7) Carbon Disulfide	8.73	76	704572	74.55	UG/L		96
8) Acetone	7.53	43	43088	35.26	UG/L		88
9) Methylene Chloride	8.56	84	230082	57.17	UG/L		98
13) trans-1,2-Dichloroethene	9.04	96	248076	55.92	UG/L		95
14) cis-,1,2-Dichloroethene	10.68	96	252681	53.95	UG/L		91
15) 1,2-Dichloroethene (total)	10.68	96	511958m	109.85	UG/L		89
16) 1,1-Dichloroethane	9.71	63	465939	61.06	UG/L		96
17) Chloroform	10.93	83	568563	52.55	UG/L		93
19) 1,2-Dichloroethane	12.23	62	285832	48.25	UG/L		96
20) 2-Butanone	10.32	43	50270	38.78	UG/L		97
22) 1,1,1-Trichloroethane	11.60	97	489041	47.88	UG/L		95
23) Carbon Tetrachloride	12.05	117	470945	44.08	UG/L		94
24) Trichloroethene	13.27	130	299455	47.71	UG/L		95
25) Benzene	12.31	78	499051	60.44	UG/L		98
26) 1,2-Dichloropropane	13.54	63	232351	65.73	UG/L		95
27) Bromodichloromethane	13.94	83	582209	50.81	UG/L		96
28) cis-1,3-Dichloropropene	14.77	75	337228	57.67	UG/L		97
29) trans-1,3-Dichloropropene	15.60	75	269060	52.24	UG/L		96
30) 1,1,2-Trichloroethane	15.90	97	187425	50.48	UG/L		95
31) Dibromochloromethane	16.90	129	417251	42.45	UG/L		95
32) Bromoform	19.73	173	274570	41.58	UG/L		98
35) 4-Methyl-2-Pentanone	14.35	43	90892	44.75	UG/L		97
36) Toluene	15.39	91	523672	55.58	UG/L		98
37) Tetrachloroethene	16.54	164	281466	51.84	UG/L		96
38) 2-Hexanone	15.80	43	75665	38.15	UG/L		99
39) Chlorobenzene	17.99	112	456985	54.19	UG/L		88
40) Ethylbenzene	18.02	106	182544	54.40	UG/L	#	79
41) Xylene (total)	18.96	106	225651	54.14	UG/L		91

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0145

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05322.D
Acq On : 31 Dec 96 11:50
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:38 1996

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	Styrene	19.01	104	372566	51.38	UG/L		93
44)	m/p-Xylene	18.15	106	459502	109.19	UG/L	#	89
45)	1,1,2,2-Tetrachloroethane	19.88	83	279790	59.82	UG/L		92

(#) = qualifier out of range (m) = manual integration

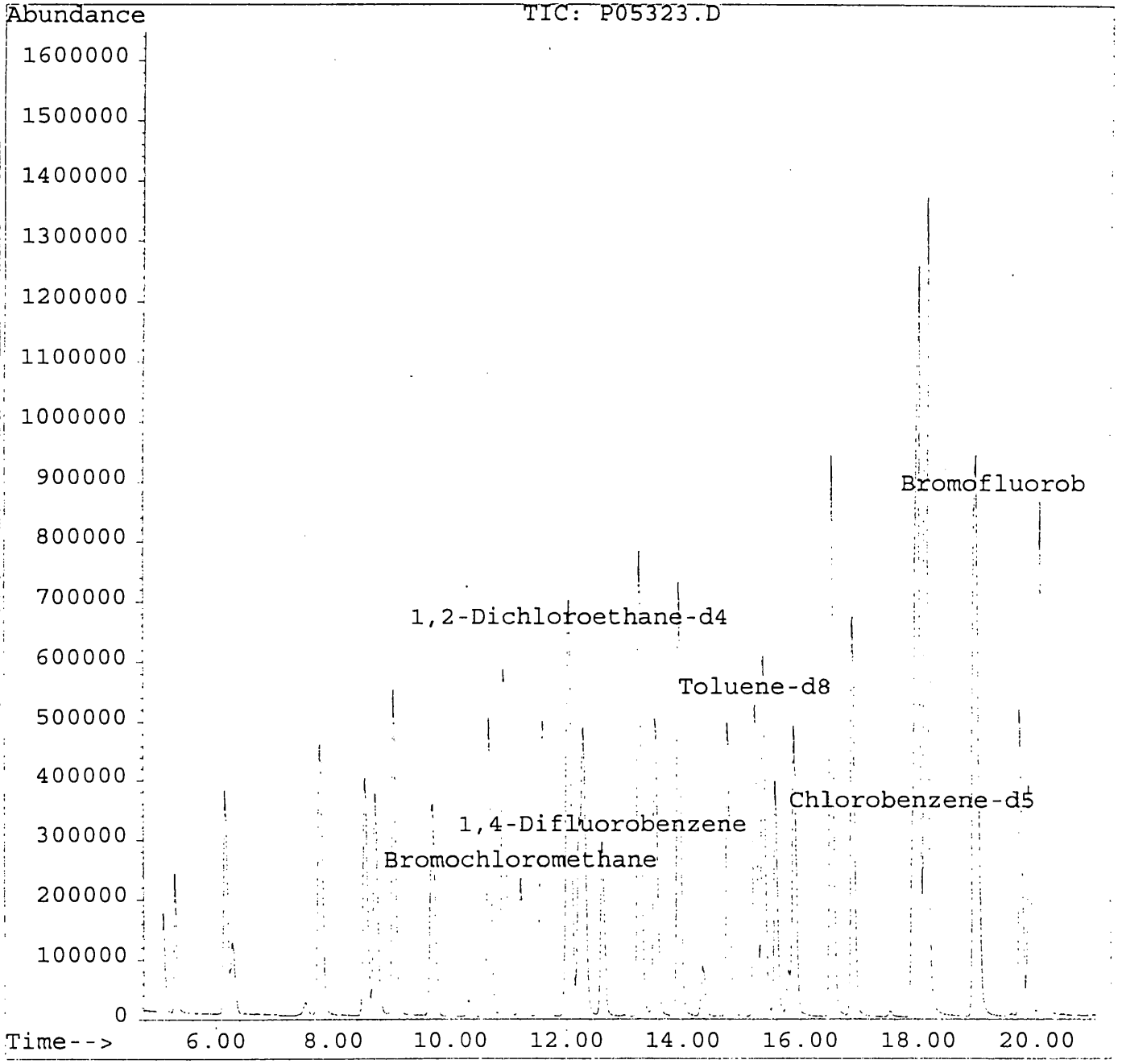
V 0146

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05323.D
Acq On : 31 Dec 96 12:21 pm
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:49 1996

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0147

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05323.D
Acq On : 31 Dec 96 12:21
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:49 1996

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	139592	50.00	UG/L	0.18
21) 1,4-Difluorobenzene	12.63	114	525241	50.00	UG/L	0.17
33) Chlorobenzene-d5	17.91	117	396259	50.00	UG/L	0.18
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	376350	92.38	UG/L	184.76%
34) Toluene-d8	15.24	98	868457	116.30	UG/L	232.59%
43) Bromofluorobenzene	20.08	95	697471	97.45	UG/L	194.89%
Target Compounds						Qvalue
2) Chloromethane	5.11	50	354937	210.99	UG/L	93
3) Vinyl Chloride	5.31	62	366800	144.54	UG/L	99
4) Bromomethane	6.17	94	579196	122.99	UG/L	97
5) Chloroethane	6.29	64	269136	159.72	UG/L	96
6) 1,1-Dichloroethene	7.78	96	489992	120.56	UG/L	92
7) Carbon Disulfide	8.73	76	1411261	152.63	UG/L	98
8) Acetone	7.53	43	81046m	67.79	UG/L	87
9) Methylene Chloride	8.54	84	451797	114.75	UG/L	98
13) trans-1,2-Dichloroethene	9.03	96	497129	114.53	UG/L	97
14) cis-,1,2-Dichloroethene	10.67	96	505863	110.39	UG/L	91
15) 1,2-Dichloroethene (total)	9.03	96	1017717m	223.19	UG/L	93
16) 1,1-Dichloroethane	9.70	63	928118	124.32	UG/L	94
17) Chloroform	10.92	83	1141639	107.85	UG/L	98
19) 1,2-Dichloroethane	12.22	62	562937	97.13	UG/L	94
20) 2-Butanone	10.32	43	91197	71.91	UG/L	97
22) 1,1,1-Trichloroethane	11.59	97	961959	92.73	UG/L	95
23) Carbon Tetrachloride	12.04	117	944277	87.01	UG/L	96
24) Trichloroethene	13.26	130	601100	94.29	UG/L	95
25) Benzene	12.30	78	985080	117.45	UG/L	99
26) 1,2-Dichloropropane	13.53	63	461670	128.58	UG/L	96
27) Bromodichloromethane	13.93	83	1169202	100.46	UG/L	99
28) cis-1,3-Dichloropropene	14.78	75	653441	110.02	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	481168	91.98	UG/L	94
30) 1,1,2-Trichloroethane	15.91	97	363376	96.36	UG/L	94
31) Dibromochloromethane	16.90	129	833517	83.50	UG/L	97
32) Bromoform	19.73	173	546155	81.44	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	166819	81.51	UG/L	97
36) Toluene	15.39	91	1063482	112.01	UG/L	95
37) Tetrachloroethene	16.54	164	566605	103.57	UG/L	97
38) 2-Hexanone	15.80	43	132432	66.27	UG/L	98
39) Chlorobenzene	17.99	112	921650	108.47	UG/L	88
40) Ethylbenzene	18.02	106	367190	108.59	UG/L	97
41) Xylene (total)	18.97	106	458927	109.27	UG/L #	82

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0148

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05323.D
Acq On : 31 Dec 96 12:21
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:49 1996

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42)	Styrene	19.02	104	765322	104.75 UG/L	96
44)	m/p-Xylene	18.15	106	918759	216.66 UG/L	93
45)	1,1,2,2-Tetrachloroethane	19.88	83	529585	112.37 UG/L	96

(#) = qualifier out of range (m) = manual integration

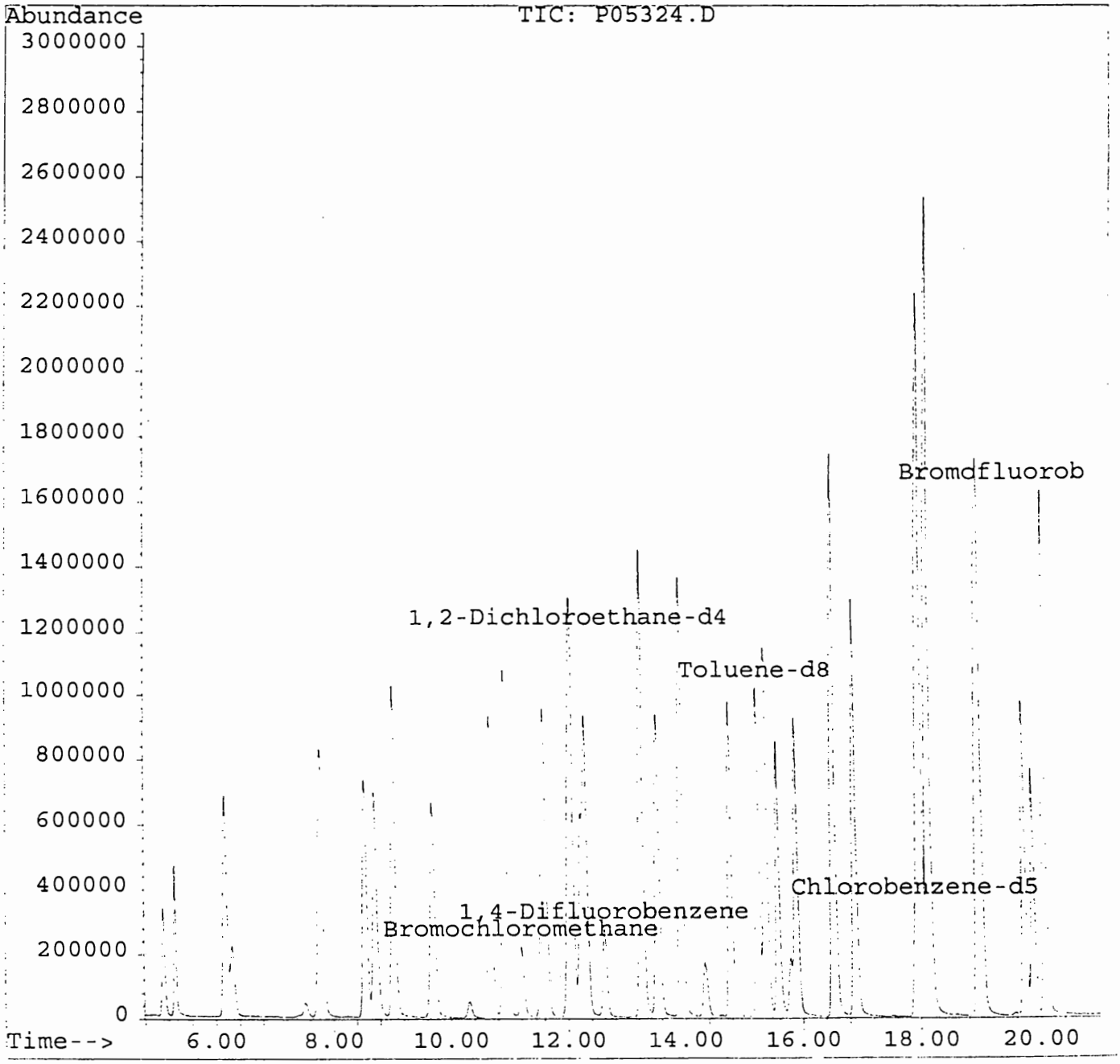
V 0149

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05324.D
Acq On : 31 Dec 96 12:52 pm
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:14 1996

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 01150

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05324.D
Acq On : 31 Dec 96 12:52
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:14 1996

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.22	128	133470	50.00	UG/L		0.18
21) 1,4-Difluorobenzene	12.63	114	486324	50.00	UG/L		0.18
33) Chlorobenzene-d5	17.91	117	362200	50.00	UG/L		0.19
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	731699	187.84	UG/L		375.68%
34) Toluene-d8	15.24	98	1703015	249.50	UG/L		498.99%
43) Bromofluorobenzene	20.08	95	1347935	206.04	UG/L		412.07%
Target Compounds							Qvalue
2) Chloromethane	5.10	50	665566	413.80	UG/L		93
3) Vinyl Chloride	5.30	62	682318	281.20	UG/L		99
4) Bromomethane	6.16	94	1101583	244.64	UG/L		97
5) Chloroethane	6.28	64	505415	313.69	UG/L		98
6) 1,1-Dichloroethene	7.78	96	902727	232.30	UG/L	#	88
7) Carbon Disulfide	8.71	76	2666089	301.57	UG/L		95
8) Acetone	7.52	43	154500	135.15	UG/L		94
9) Methylene Chloride	8.54	84	835003	221.81	UG/L		97
13) trans-1,2-Dichloroethene	9.02	96	944258	227.52	UG/L		96
14) cis-,1,2-Dichloroethene	10.67	96	968722	221.09	UG/L		92
15) 1,2-Dichloroethene (total)	10.67	96	1937204m	444.33	UG/L		94
16) 1,1-Dichloroethane	9.69	63	1769464	247.90	UG/L		95
17) Chloroform	10.92	83	2130329	210.48	UG/L		92
19) 1,2-Dichloroethane	12.22	62	1089685	196.64	UG/L		94
20) 2-Butanone	10.32	43	169425	139.71	UG/L		98
22) 1,1,1-Trichloroethane	11.59	97	1865356	194.21	UG/L		96
23) Carbon Tetrachloride	12.03	117	1779368	177.09	UG/L		94
24) Trichloroethene	13.26	130	1158746	196.31	UG/L		99
25) Benzene	12.31	78	1900391	244.72	UG/L		99
26) 1,2-Dichloropropane	13.53	63	869280	261.48	UG/L		96
27) Bromodichloromethane	13.94	83	2194524	203.65	UG/L		96
28) cis-1,3-Dichloropropene	14.78	75	1284152	233.51	UG/L		97
29) trans-1,3-Dichloropropene	15.59	75	1050797	216.94	UG/L		93
30) 1,1,2-Trichloroethane	15.90	97	695958	199.32	UG/L		95
31) Dibromochloromethane	16.89	129	1560553	168.84	UG/L		94
32) Bromoform	19.73	173	1060981	170.86	UG/L		99
35) 4-Methyl-2-Pentanone	14.35	43	335280	179.22	UG/L		97
36) Toluene	15.38	91	2015396	232.23	UG/L		100
37) Tetrachloroethene	16.54	164	1049069	209.79	UG/L		95
38) 2-Hexanone	15.81	43	304252	166.56	UG/L		99
39) Chlorobenzene	17.99	112	1694177	218.13	UG/L		88
40) Ethylbenzene	18.03	106	708076	229.09	UG/L		97
41) Xylene (total)	18.97	106	855121	222.75	UG/L	#	89

CKB 2/10/97

(#) = qualifier out of range (m) = manual integration

V 0151

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05324.D
Acq On : 31 Dec 96 12:52
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:14 1996

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Styrene	19.02	104	1435221	214.91 UG/L	94
44) m/p-Xylene	18.15	106	1718074	443.25 UG/L	96
45) 1,1,2,2-Tetrachloroethane	19.88	83	1008006	234.00 UG/L	96

(#) = qualifier out of range (m) = manual integration

V 0152

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Instrument ID: H5970-3 Calibration Date: 01/27/97 Time: 15:21

Lab File ID: P05484.D Init. Calib. Date(s): 12/31/96 12/31/96

Heated Purge: (Y/N) Y Init. Calib. Times: 13:23 15:27

GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.061	1.005		5.3	
Bromomethane	1.832	1.923	0.100	-5.0	25.0
Vinyl Chloride	1.139	1.210	0.100	-6.2	25.0
Chloroethane	0.844	0.954		-13.1	
Methylene Chloride	1.538	1.715		-11.5	
Acetone	0.441	0.569		-28.9	
Carbon Disulfide	4.320	4.699		-8.8	
1,1-Dichloroethene	1.515	1.721	0.100	-13.6	25.0
1,1-Dichloroethane	2.916	3.499	0.200	-20.0	25.0
1,2-Dichloroethene (total)	1.655	1.886		-14.0	
Chloroform	3.634	4.528	0.200	-24.6	25.0
1,2-Dichloroethane	1.982	2.375	0.100	-19.8	25.0
2-Butanone	0.513	0.621		-21.0	
1,1,1-Trichloroethane	0.904	1.023	0.100	-13.2	25.0
Carbon Tetrachloride	0.852	0.991	0.100	-16.3	25.0
Bromodichloromethane	1.111	1.241	0.200	-11.7	25.0
1,2-Dichloropropane	0.439	0.452		-3.1	
cis-1,3-Dichloropropene	0.634	0.688	0.200	-8.4	25.0
Trichloroethene	0.562	0.602	0.300	-7.1	25.0
Benzene	0.910	0.953	0.500	-4.7	25.0
Dibromochloromethane	0.860	0.912	0.100	-6.0	25.0
trans-1,3-Dichloropropene	0.544	0.594	0.100	-9.1	25.0
1,1,2-Trichloroethane	0.404	0.405	0.100	-0.2	25.0
Bromoform	0.613	0.650	0.100	-6.0	25.0
4-Methyl-2-Pentanone	0.332	0.316		5.0	
2-Hexanone	0.336	0.315		6.2	
Tetrachloroethene	0.640	0.709	0.200	-10.8	25.0
1,1,2,2-Tetrachloroethane	0.856	0.839	0.500	2.0	25.0
Toluene	1.234	1.328	0.400	-7.6	25.0
Chlorobenzene	1.102	1.166	0.500	-5.8	25.0
Ethylbenzene	0.434	0.455	0.100	-4.8	25.0
Styrene	0.907	0.957	0.300	-5.4	25.0
Xylene (total)	0.532	0.566	0.300	-6.3	25.0
1,2-Dichloroethane-d4	1.397	1.544		-10.5	
Toluene-d8	1.050	1.027		2.1	
Bromofluorobenzene	0.907	0.960	0.200	-5.9	25.0

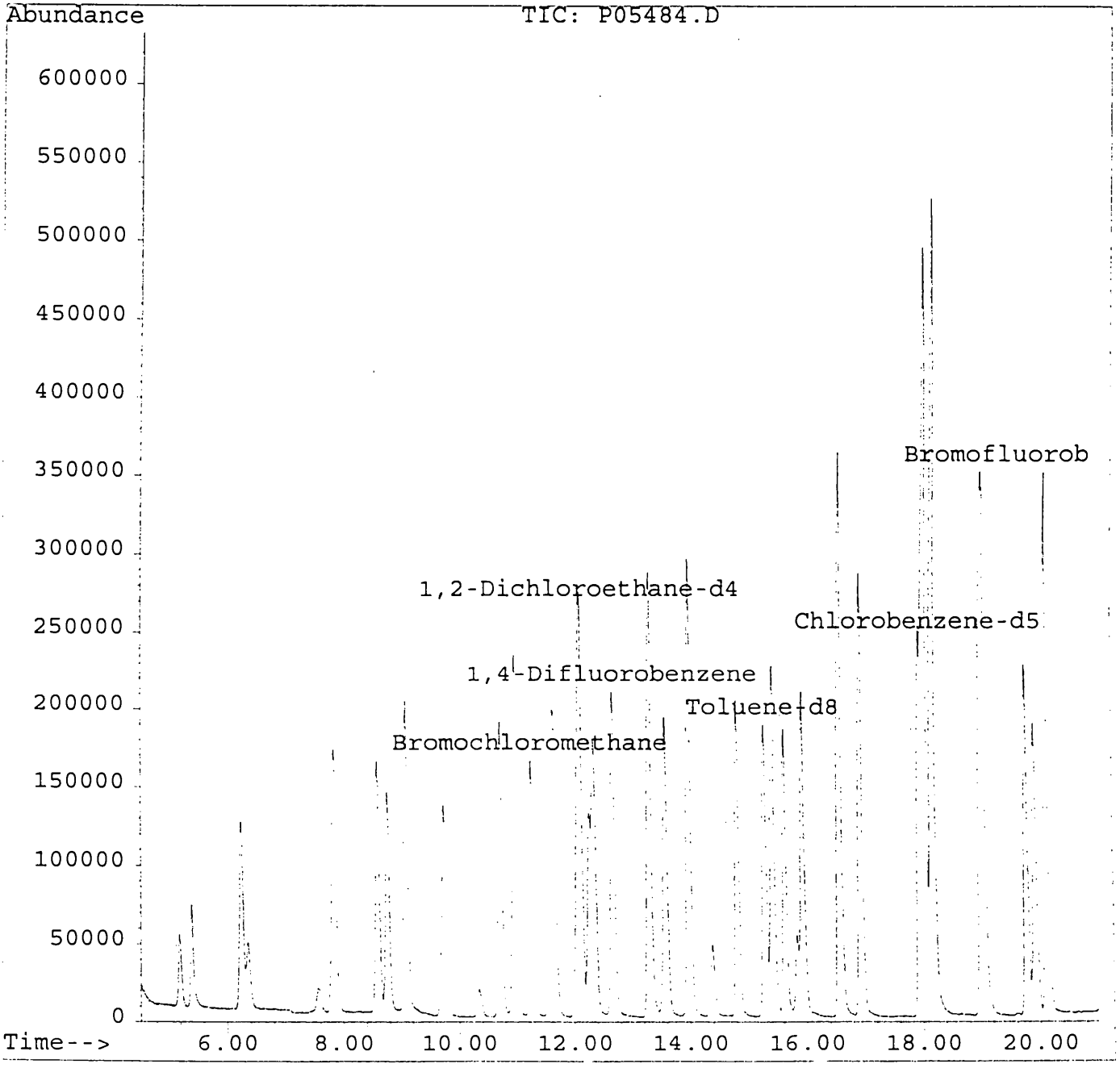
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05484.D
Acq On : 27 Jan 97 3:21 pm
Sample : VSTD050
Misc : H5970-3 1/27/97
Quant Time: Jan 27 15:48 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0154

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05484.D
Acq On : 27 Jan 97 15:21
Sample : VSTD050
Misc : H5970-3 1/27/97
Quant Time: Jan 27 15:48 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.26	128	98034	50.00	UG/L		-0.01
21) 1,4-Difluorobenzene	12.66	114	366979	50.00	UG/L		-0.02
33) Chlorobenzene-d5	17.95	117	293533	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	12.11	65	151363	51.24	UG/L		102.47%
34) Toluene-d8	15.28	98	301557	49.55	UG/L		99.09%
43) Bromofluorobenzene	20.12	95	281822	50.69	UG/L		101.38%
Target Compounds							Qvalue
2) Chloromethane	5.18	50	98492	47.15	UG/L		96
3) Vinyl Chloride	5.40	62	118586	48.25	UG/L		97
4) Bromomethane	6.24	94	188549	48.37	UG/L		96
5) Chloroethane	6.36	64	93523	47.08	UG/L		98
6) 1,1-Dichloroethene	7.83	96	168713	47.18	UG/L	#	80
7) Carbon Disulfide	8.76	76	460684	45.85	UG/L		91
8) Acetone	7.58	43	55785	52.51	UG/L		88
9) Methylene Chloride	8.59	84	168116	47.26	UG/L		94
13) trans-1,2-Dichloroethene	9.08	96	174751	45.32	UG/L		95
14) cis-,1,2-Dichloroethene	10.71	96	184563	48.13	UG/L		89
15) 1,2-Dichloroethene (total)	10.71	96	369863m	94.17	UG/L		83
16) 1,1-Dichloroethane	9.74	63	343049	51.07	UG/L		93
17) Chloroform	10.96	83	443937	50.19	UG/L		97
19) 1,2-Dichloroethane	12.26	62	232822	50.36	UG/L		93
20) 2-Butanone	10.35	43	60872	51.82	UG/L		96
22) 1,1,1-Trichloroethane	11.63	97	375265	47.85	UG/L		94
23) Carbon Tetrachloride	12.08	117	363617	47.40	UG/L		99
24) Trichloroethene	13.30	130	220883	48.12	UG/L		94
25) Benzene	12.35	78	349781	46.71	UG/L		99
26) 1,2-Dichloropropane	13.59	63	166032	47.98	UG/L		90
27) Bromodichloromethane	13.97	83	455470	48.04	UG/L		98
28) cis-1,3-Dichloropropene	14.82	75	252338	47.96	UG/L		96
29) trans-1,3-Dichloropropene	15.63	75	217912	48.45	UG/L		97
30) 1,1,2-Trichloroethane	15.94	97	148742	47.72	UG/L		94
31) Dibromochloromethane	16.93	129	334553	48.53	UG/L		99
32) Bromoform	19.77	173	238458	50.14	UG/L		98
35) 4-Methyl-2-Pentanone	14.38	43	92683	50.63	UG/L		95
36) Toluene	15.42	91	389678	48.09	UG/L		98
37) Tetrachloroethene	16.57	164	208101	48.40	UG/L		99
38) 2-Hexanone	15.84	43	92364	49.93	UG/L		99
39) Chlorobenzene	18.03	112	342112	47.09	UG/L		88
40) Ethylbenzene	18.06	106	133655	47.67	UG/L	#	90
41) Xylene (total)	19.01	106	165990	48.35	UG/L	#	82

CKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 01555

Data File : C:\HPCHEM\1\DATA\P05484.D
Acq On : 27 Jan 97 15:21
Sample : VSTD050
Misc : H5970-3 1/27/97
Quant Time: Jan 27 15:48 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42)	Styrene	19.05	104	280773	48.85 UG/L	90
44)	m/p-Xylene	18.18	106	346165	96.81 UG/L	93
45)	1,1,2,2-Tetrachloroethane	19.92	83	246266	48.86 UG/L	98

(#) = qualifier out of range (m) = manual integration

V 0156

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 123

Instrument ID: H5970-3 Calibration Date: 01/28/97 Time: 12:21

Lab File ID: P05498.D Init. Calib. Date(s): 12/31/96 12/31/96

Heated Purge: (Y/N) N Init. Calib. Times: 11:19 16:42

GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.272	1.025		19.4	
Bromomethane	2.096	2.079	0.100	0.8	25.0
Vinyl Chloride	1.391	1.313	0.100	5.6	25.0
Chloroethane	0.976	0.986		-1.0	
Methylene Chloride	1.641	1.772		-8.0	
Acetone	0.342	0.390		-14.0	
Carbon Disulfide	4.977	5.223		-5.0	
1,1-Dichloroethene	1.739	1.934	0.100	-11.2	25.0
1,1-Dichloroethane	3.308	3.629	0.200	-9.7	25.0
1,2-Dichloroethene (total)	1.859	2.027		-9.1	
Chloroform	4.054	4.813	0.200	-18.7	25.0
1,2-Dichloroethane	2.003	2.370	0.100	-18.3	25.0
2-Butanone	0.367	0.381		-3.8	
1,1,1-Trichloroethane	0.946	1.118	0.100	-18.2	25.0
Carbon Tetrachloride	0.912	1.141	0.100	-25.1	25.0
Bromodichloromethane	1.100	1.266	0.200	-15.0	25.0
1,2-Dichloropropane	0.443	0.434		2.1	
cis-1,3-Dichloropropene	0.629	0.640	0.200	-1.7	25.0
Trichloroethene	0.606	0.620	0.300	-2.2	25.0
Benzene	0.963	0.983	0.500	-2.0	25.0
Dibromochloromethane	0.777	0.862	0.100	-11.0	25.0
trans-1,3-Dichloropropene	0.492	0.518	0.100	-5.2	25.0
1,1,2-Trichloroethane	0.353	0.345	0.100	2.0	25.0
Bromoform	0.503	0.545	0.100	-8.4	25.0
4-Methyl-2-Pentanone	0.255	0.188		26.3	
2-Hexanone	0.212	0.193		8.9	
Tetrachloroethene	0.725	0.759	0.200	-4.8	25.0
1,1,2,2-Tetrachloroethane	0.633	0.614	0.500	3.0	25.0
Toluene	1.359	1.295	0.400	4.7	25.0
Chlorobenzene	1.175	1.159	0.500	1.4	25.0
Ethylbenzene	0.474	0.470	0.100	0.8	25.0
Styrene	0.958	0.897	0.300	6.4	25.0
Xylene (total)	0.580	0.554	0.300	4.4	25.0
1,2-Dichloroethane-d4	1.349	1.520		-12.7	
Toluene-d8	1.109	1.001		9.7	
Bromofluorobenzene	0.892	0.962	0.200	-7.8	25.0

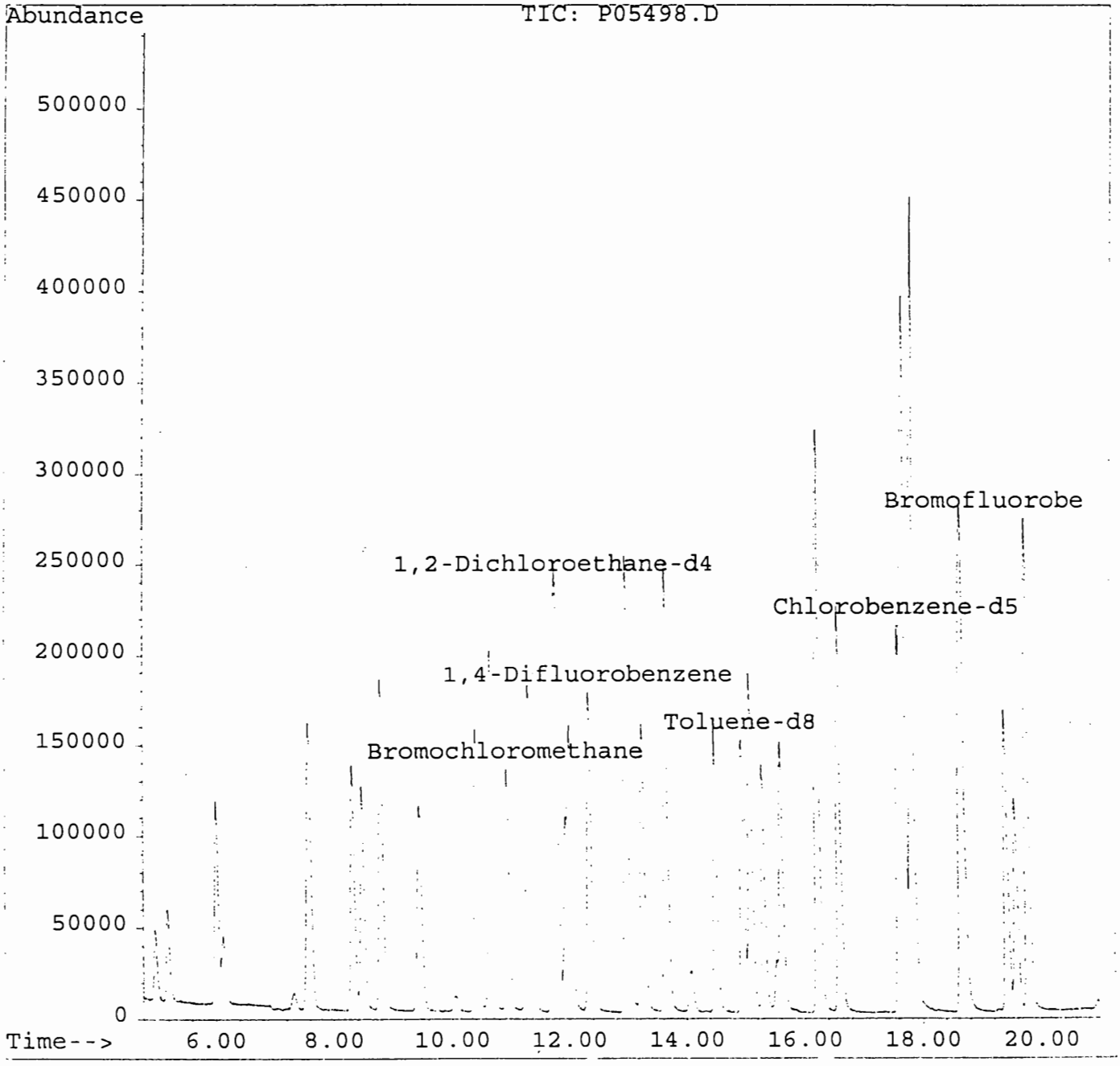
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05498.D
Acq On : 28 Jan 97 12:21 pm
Sample : VSTD050
Misc : H5970-3 1/28/97
Quant Time: Jan 28 12:52 1997

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0135

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05498.D
Acq On : 28 Jan 97 12:21
Sample : VSTD050
Misc : H5970-3 1/28/97
Quant Time: Jan 28 12:52 1997

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:50:21 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.95	128	78170	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	12.36	114	306444	50.00	UG/L		0.00
33) Chlorobenzene-d5	17.63	117	243567	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	11.80	65	118831	50.00	UG/L		100.00%
34) Toluene-d8	14.97	98	243763	49.66	UG/L		99.32%
43) Bromofluorobenzene	19.78	95	234361	48.88	UG/L		97.76%
Target Compounds							Qvalue
2) Chloromethane	4.98	50	80084	50.00	UG/L		91
3) Vinyl Chloride	5.18	62	102656	50.00	UG/L		95
4) Bromomethane	6.02	94	162545	50.00	UG/L		97
5) Chloroethane	6.14	64	77054	50.00	UG/L		99
6) 1,1-Dichloroethene	7.59	96	151188	50.00	UG/L	#	84
7) Carbon Disulfide	8.50	76	408295	50.00	UG/L		93
8) Acetone	7.33	43	30476	50.00	UG/L		89
9) Methylene Chloride	8.32	84	138527	50.00	UG/L		96
13) trans-1,2-Dichloroethene	8.80	96	157533	50.00	UG/L		92
14) cis-,1,2-Dichloroethene	10.41	96	152358	50.00	UG/L		89
15) 1,2-Dichloroethene (total)	8.80	96	316937m	100.08	UG/L		78
16) 1,1-Dichloroethane	9.46	63	283659	50.00	UG/L		97
17) Chloroform	10.67	83	376205	50.00	UG/L		95
19) 1,2-Dichloroethane	11.95	62	185266	50.00	UG/L		92
20) 2-Butanone	10.05	43	29750	50.00	UG/L		94
22) 1,1,1-Trichloroethane	11.32	97	342555	50.00	UG/L		94
23) Carbon Tetrachloride	11.78	117	349567m	95.95	UG/L		97
24) Trichloroethene	12.98	130	189931	50.00	UG/L		97
25) Benzene	12.03	78	301094	50.00	UG/L		100
26) 1,2-Dichloropropane	13.26	63	133020	50.00	UG/L	#	86
27) Bromodichloromethane	13.66	83	387834	50.00	UG/L		97
28) cis-1,3-Dichloropropene	14.51	75	196084	50.00	UG/L		94
29) trans-1,3-Dichloropropene	15.31	75	158727	50.00	UG/L		95
30) 1,1,2-Trichloroethane	15.63	97	105860	50.00	UG/L		95
31) Dibromochloromethane	16.61	129	264123	50.00	UG/L		96
32) Bromoform	19.43	173	167122	50.00	UG/L		97
35) 4-Methyl-2-Pentanone	14.09	43	45685	48.70	UG/L		97
36) Toluene	15.10	91	315428	49.61	UG/L		97
37) Tetrachloroethene	16.26	164	184907	49.63	UG/L		95
38) 2-Hexanone	15.54	43	47042	48.81	UG/L		97
39) Chlorobenzene	17.69	112	282361	50.76	UG/L		89
40) Ethylbenzene	17.73	106	114533	47.38	UG/L	#	79
41) Xylene (total)	18.67	106	135026	49.52	UG/L	#	83

CKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 0159

Data File : C:\HPCHEM\1\DATA\P05498.D
Acq On : 28 Jan 97 12:21
Sample : VSTD050
Misc : H5970-3 1/28/97
Quant Time: Jan 28 12:52 1997

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:50:21 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	Styrene	18.71	104	218411	49.70	UG/L		96
44)	m/p-Xylene	17.86	106	279461	98.52	UG/L	#	89
45)	1,1,2,2-Tetrachloroethane	19.58	83	149518	49.63	UG/L		91

(#) = qualifier out of range (m) = manual integration

0160

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Instrument ID: H5970-3 Calibration Date: 01/29/97 Time: 13:49

Lab File ID: P05519.D Init. Calib. Date(s): 12/31/96 12/31/96

Heated Purge: (Y/N) N Init. Calib. Times: 11:19 16:42

GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.272	1.064		16.4	
Bromomethane	2.096	2.320	0.100	-10.7	25.0
Vinyl Chloride	1.391	1.374	0.100	1.2	25.0
Chloroethane	0.976	1.070		-9.6	
Methylene Chloride	1.641	1.805		-10.0	
Acetone	0.342	0.351		-2.7	
Carbon Disulfide	4.977	5.283		-6.2	
1,1-Dichloroethene	1.739	2.107	0.100	-21.2	25.0
1,1-Dichloroethane	3.308	4.023	0.200	-21.6	25.0
1,2-Dichloroethene (total)	1.859	2.188		-17.7	
Chloroform	4.054	5.105	0.200	-25.9	25.0
1,2-Dichloroethane	2.003	2.228	0.100	-11.2	25.0
2-Butanone	0.367	0.371		-1.2	
1,1,1-Trichloroethane	0.946	1.049	0.100	-11.0	25.0
Carbon Tetrachloride	0.912	1.026	0.100	-12.5	25.0
Bromodichloromethane	1.100	1.142	0.200	-3.8	25.0
1,2-Dichloropropane	0.443	0.429		3.3	
cis-1,3-Dichloropropene	0.629	0.613	0.200	2.7	25.0
Trichloroethene	0.606	0.629	0.300	-3.8	25.0
Benzene	0.963	0.970	0.500	-0.7	25.0
Dibromochloromethane	0.777	0.771	0.100	0.7	25.0
trans-1,3-Dichloropropene	0.492	0.474	0.100	3.8	25.0
1,1,2-Trichloroethane	0.353	0.317	0.100	10.1	25.0
Bromoform	0.503	0.469	0.100	6.9	25.0
4-Methyl-2-Pentanone	0.255	0.162		36.4	
2-Hexanone	0.212	0.160		24.6	
Tetrachloroethene	0.725	0.783	0.200	-8.0	25.0
1,1,2,2-Tetrachloroethane	0.633	0.535	0.500	15.5	25.0
Toluene	1.359	1.345	0.400	1.0	25.0
Chlorobenzene	1.175	1.180	0.500	-0.4	25.0
Ethylbenzene	0.474	0.479	0.100	-1.1	25.0
Styrene	0.958	0.903	0.300	5.8	25.0
Xylene (total)	0.580	0.560	0.300	3.5	25.0
1,2-Dichloroethane-d4	1.349	1.408		-4.4	
Toluene-d8	1.109	1.036		6.5	
Bromofluorobenzene	0.892	0.931	0.200	-4.3	25.0

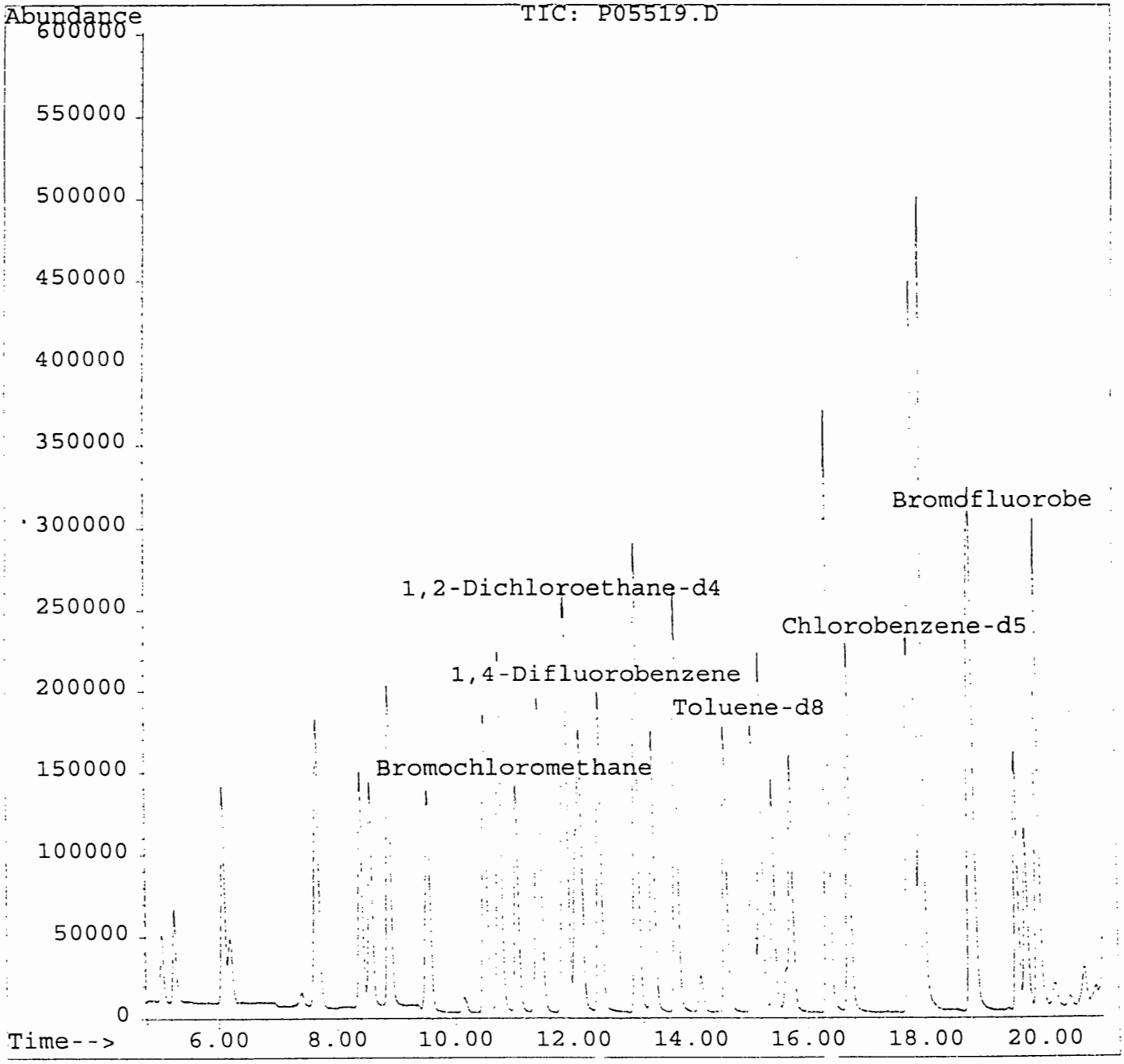
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05519.D
Acq On : 29 Jan 97 1:49 pm
Sample : VSTD050
Misc : H5970-3 1/29/97
Quant Time: Jan 29 14:25 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration



V 0162

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05519.D
Acq On : 29 Jan 97 13:49
Sample : VSTD050
Misc : H5970-3 1/29/97
Quant Time: Jan 29 14:25 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	11.05	128	84715	50.00	UG/L		0.10
21) 1,4-Difluorobenzene	12.47	114	357408	50.00	UG/L		0.11
33) Chlorobenzene-d5	17.73	117	281348	50.00	UG/L		0.10
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	11.90	65	119302	46.32	UG/L		92.64%
34) Toluene-d8	15.07	98	291546	51.77	UG/L		103.54%
43) Bromofluorobenzene	19.90	95	261809	48.36	UG/L		96.71%
Target Compounds							Qvalue
2) Chloromethane	5.05	50	90107	51.91	UG/L		92
3) Vinyl Chloride	5.26	62	116373	52.30	UG/L		99
4) Bromomethane	6.08	94	196527	55.78	UG/L		99
5) Chloroethane	6.20	64	90659	54.28	UG/L		95
6) 1,1-Dichloroethene	7.66	96	178524	54.48	UG/L	#	85
7) Carbon Disulfide	8.58	76	447554	50.57	UG/L		93
8) Acetone	7.40	43	29738	45.02	UG/L		87
9) Methylene Chloride	8.41	84	152881	50.92	UG/L		94
13) trans-1,2-Dichloroethene	8.88	96	175393	51.37	UG/L		96
14) cis-,1,2-Dichloroethene	10.52	96	187262	56.71	UG/L		91
15) 1,2-Dichloroethene (total)	8.88	96	370728m	107.93	UG/L		86
16) 1,1-Dichloroethane	9.54	63	340832	55.44	UG/L		94
17) Chloroform	10.77	83	432487	53.04	UG/L		97
19) 1,2-Dichloroethane	12.06	62	188747	47.00	UG/L		93
20) 2-Butanone	10.15	43	31421	48.73	UG/L		97
22) 1,1,1-Trichloroethane	11.43	97	375029	46.93	UG/L		95
23) Carbon Tetrachloride	11.88	117	366760	44.98	UG/L		98
24) Trichloroethene	13.10	130	224922	50.77	UG/L		99
25) Benzene	12.14	78	346573	49.35	UG/L		99
26) 1,2-Dichloropropane	13.38	63	153263	49.39	UG/L		92
27) Bromodichloromethane	13.78	83	408285	45.13	UG/L		97
28) cis-1,3-Dichloropropene	14.61	75	218914	47.86	UG/L		96
29) trans-1,3-Dichloropropene	15.42	75	169323	45.73	UG/L		95
30) 1,1,2-Trichloroethane	15.74	97	113253	45.86	UG/L		91
31) Dibromochloromethane	16.72	129	275703	44.75	UG/L		99
32) Bromoform	19.55	173	167527	42.97	UG/L		98
35) 4-Methyl-2-Pentanone	14.18	43	45561	43.17	UG/L		95
36) Toluene	15.22	91	378537	51.95	UG/L		97
37) Tetrachloroethene	16.36	164	220272	51.56	UG/L		98
38) 2-Hexanone	15.64	43	44983	41.39	UG/L		99
39) Chlorobenzene	17.80	112	331884	50.88	UG/L		91
40) Ethylbenzene	17.84	106	134809	50.95	UG/L	#	86
41) Xylene (total)	18.78	106	157458	50.48	UG/L	#	81

GKB 2/11/97

(#) = qualifier out of range (m) = manual integration

V 01633

Data File : C:\HPCHEM\1\DATA\P05519.D
Acq On : 29 Jan 97 13:49
Sample : VSTD050
Misc : H5970-3 1/29/97
Quant Time: Jan 29 14:25 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	Styrene	18.83	104	253977	50.33	UG/L		93
44)	m/p-Xylene	17.97	106	324124	100.41	UG/L	#	85
45)	1,1,2,2-Tetrachloroethane	19.70	83	150391	43.54	UG/L		99

(#) = qualifier out of range (m) = manual integration

016.1

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

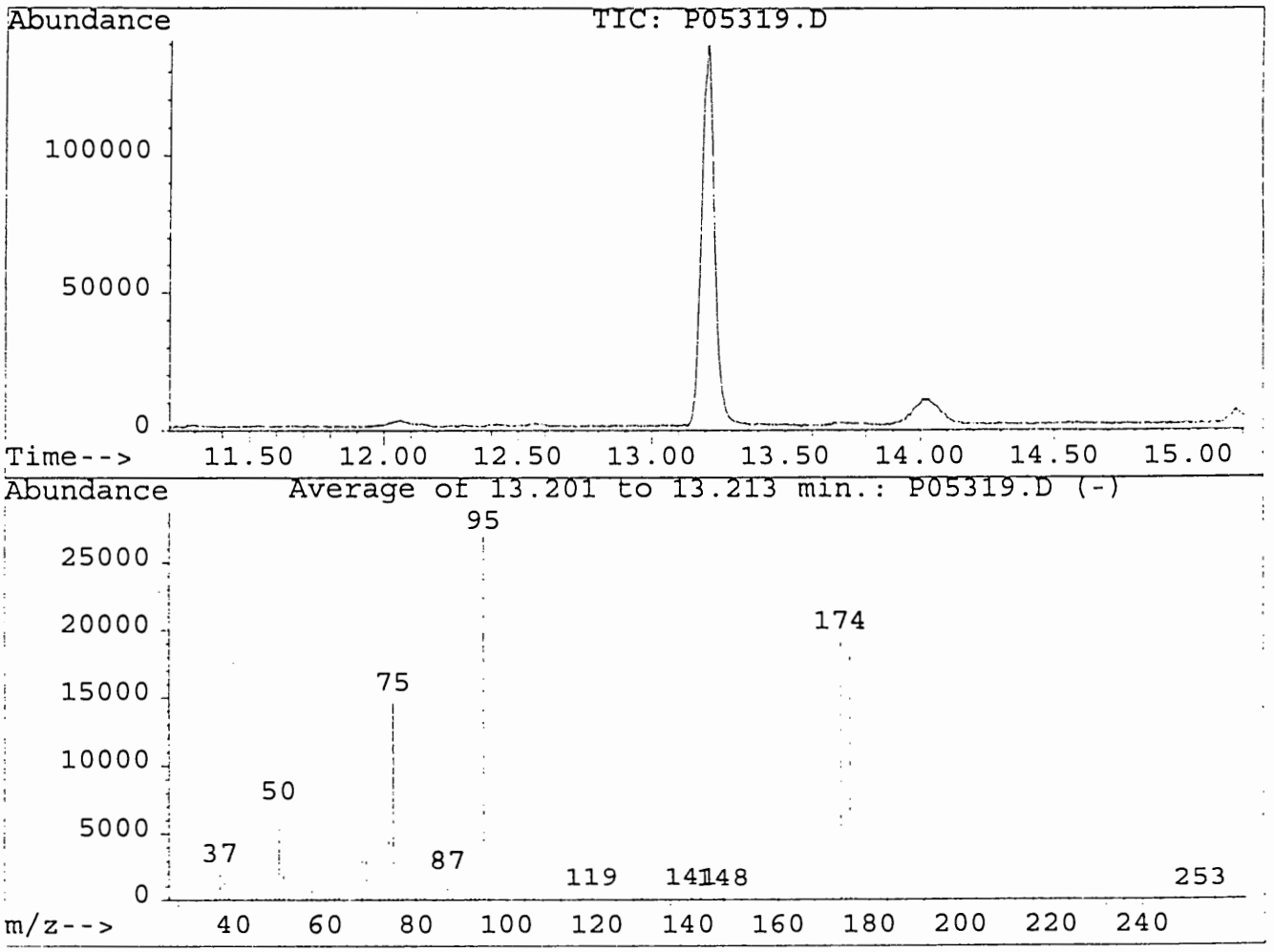
A. TUNING
B. BLANK
C. ~~MATRIX SPIKE BLANK~~
D. ~~SPIKE AND SPIKE DUPLICATE~~
E. COPY OF CALCULATIONS

BFB

Data File : C:\HPCHEM\1\DATA\P05319.D
Acq On : 31 Dec 96 9:05 am
Sample : 50 NG BFB
Misc : H5970-3 12/31/96

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1604 1605 1606 Bkg: 1587

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	6589	PASS
75	95	30	60	52.9	14581	PASS
95	95	100	100	100.0	27571	PASS
96	95	5	9	7.1	1947	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.2	19077	PASS
175	174	5	9	8.0	1529	PASS
176	174	95	101	98.2	18739	PASS
177	176	5	9	6.9	1295	PASS

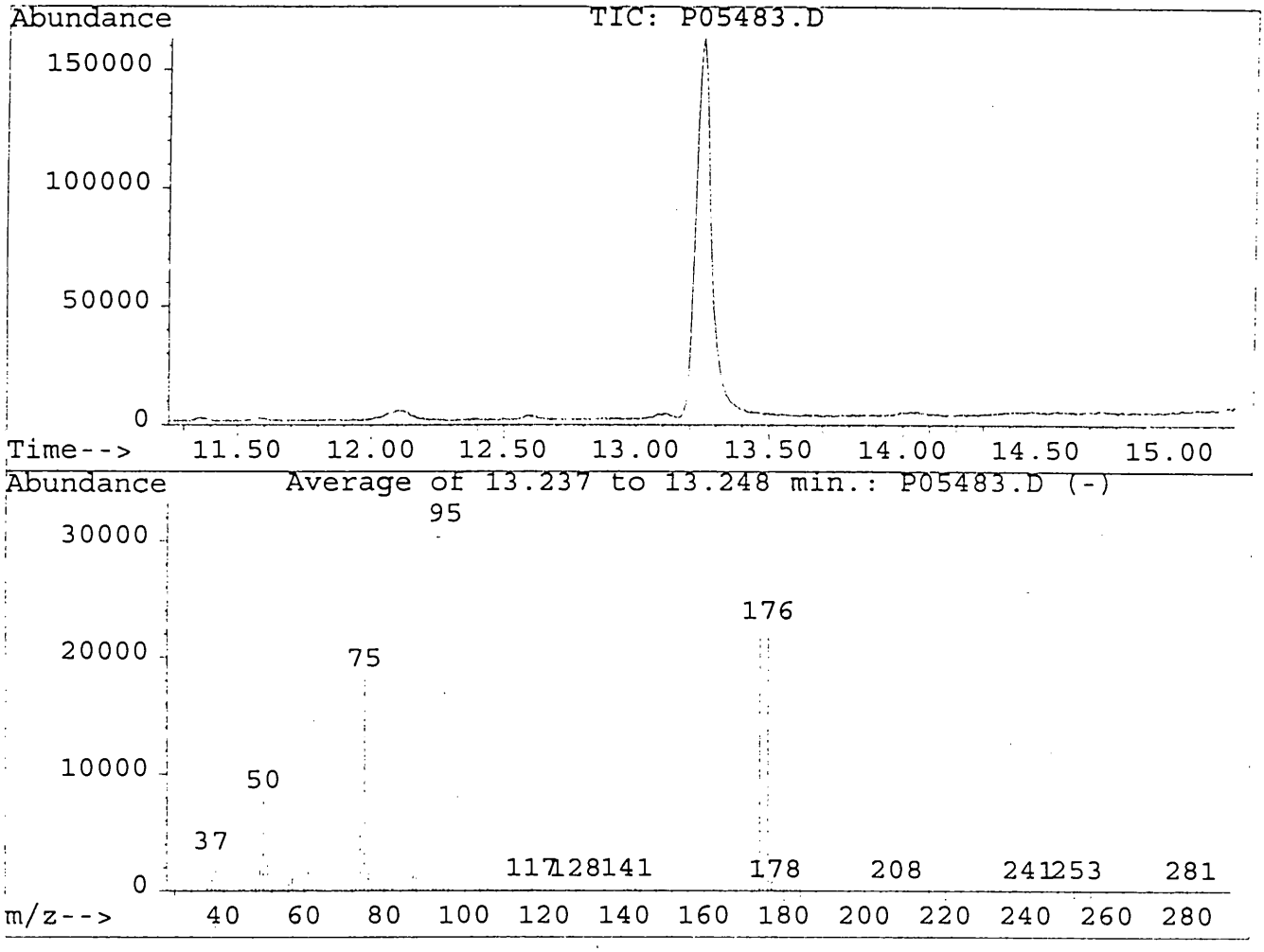
P05319.D PUHS.M Mon Feb 10 15:42:44 1997 MASSPEC1

BFB

Data File : C:\HPCHEM\1\DATA\P05483.D
Acq On : 27 Jan 97 12:46 pm
Sample : 50 NG BFB
Misc : H5970-3 1/27/97

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1610 1611 1612 Bkg: 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	7735	PASS
75	95	30	60	57.2	18112	PASS
95	95	100	100	100.0	31675	PASS
96	95	5	9	7.2	2289	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	22088	PASS
175	174	5	9	7.3	1623	PASS
176	174	95	101	100.4	22176	PASS
177	176	5	9	7.2	1591	PASS

P05483.D PUHS.M Tue Feb 11 10:56:26 1997 MASSPEC1

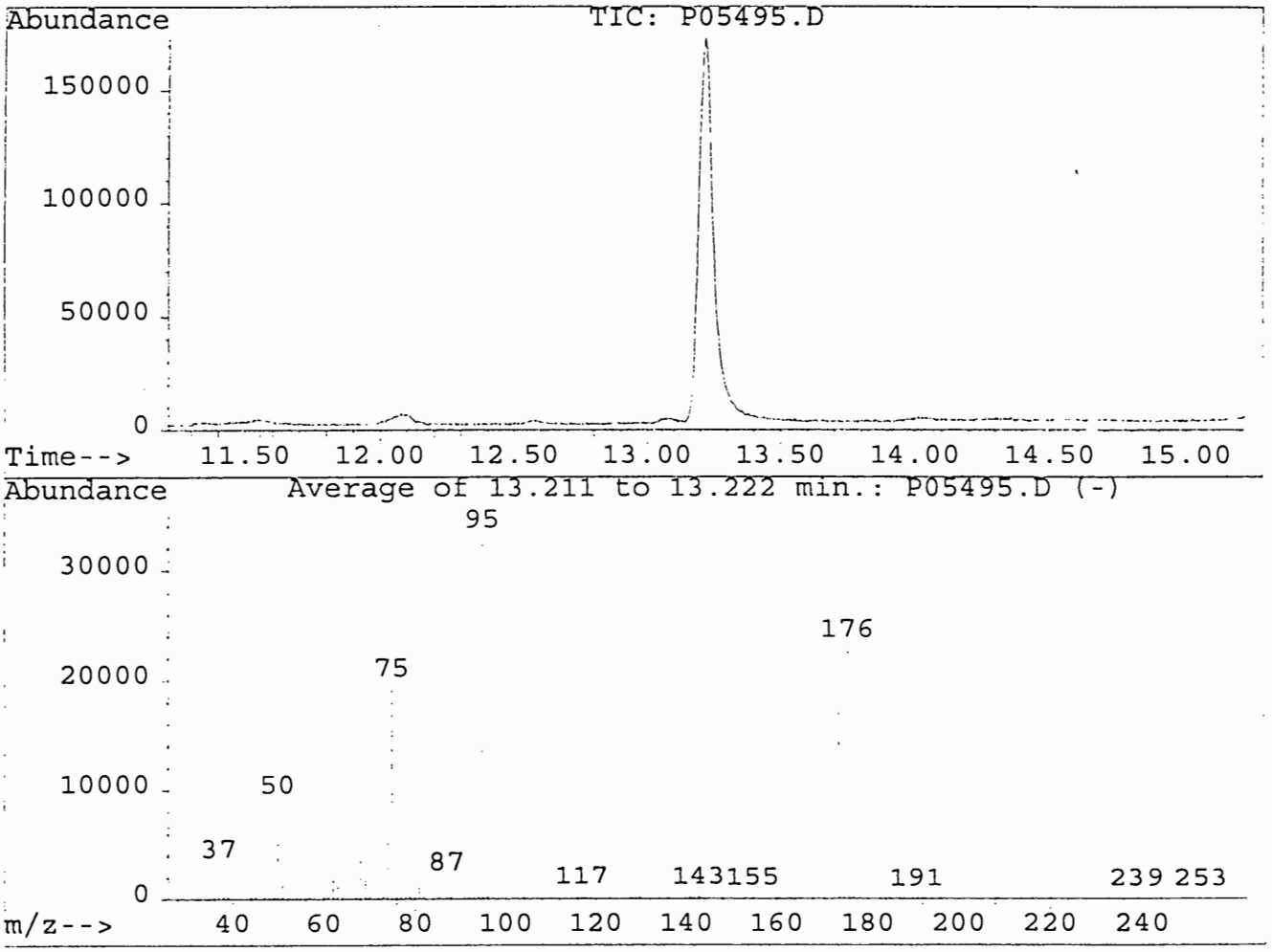
V 0167

BFB

Data File : C:\HPCHEM\1\DATA\P05495.D
Acq On : 28 Jan 97 9:31 am
Sample : 50 NG BFB
Misc : H5970-3 1/28/97

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1605 1606 1607 Bkg: 1585

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	8561	PASS
75	95	30	60	56.7	19221	PASS
95	95	100	100	100.0	33917	PASS
96	95	5	9	7.4	2502	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.6	22587	PASS
175	174	5	9	7.5	1685	PASS
176	174	95	101	100.6	22725	PASS
177	176	5	9	6.8	1540	PASS

P05495.D PUHS.M Mon Feb 10 15:43:32 1997 MASSPEC1

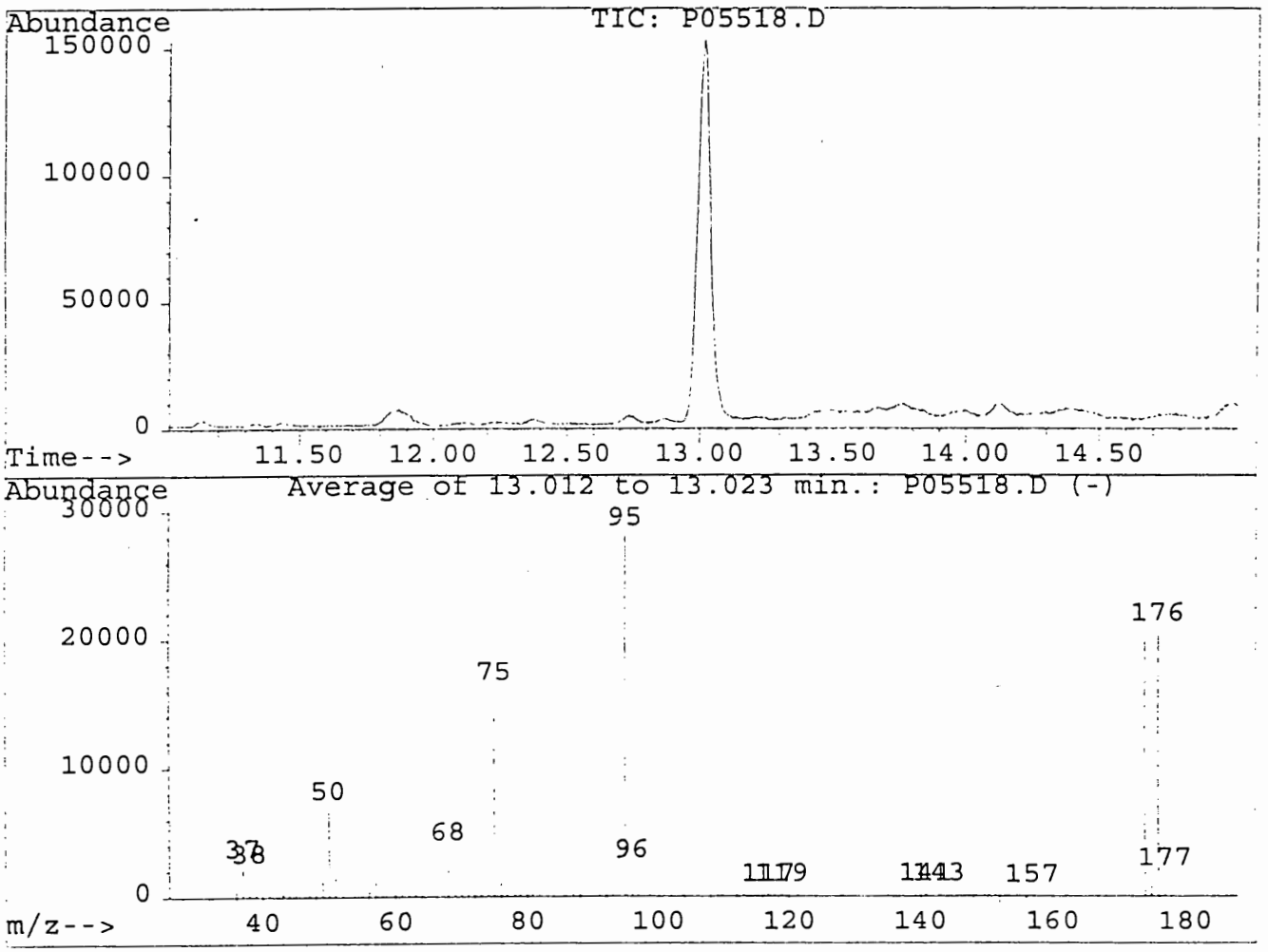
V 0165

BFB

Data File : C:\HPCHEM\1\DATA\P05518.D
Acq On : 29 Jan 97 1:06 pm
Sample : 50 NG BFB
Misc : H5970-3 1/29/97

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1571 1572 1573 Bkg: 1554

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	6587	PASS
75	95	30	60	54.8	15847	PASS
95	95	100	100	100.0	28916	PASS
96	95	5	9	6.9	1986	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.6	20429	PASS
175	174	5	9	8.0	1625	PASS
176	174	95	101	100.2	20461	PASS
177	176	5	9	6.6	1356	PASS

P05518.D PUHS.M Mon Feb 10 15:44:28 1997 MASSPEC1

V 0169

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: VBLK27

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	3	J
540-59-0	1,2-Dichloroethene (total)	10	U
75-34-4	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) SOIL Lab Sample ID: VBLK27

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

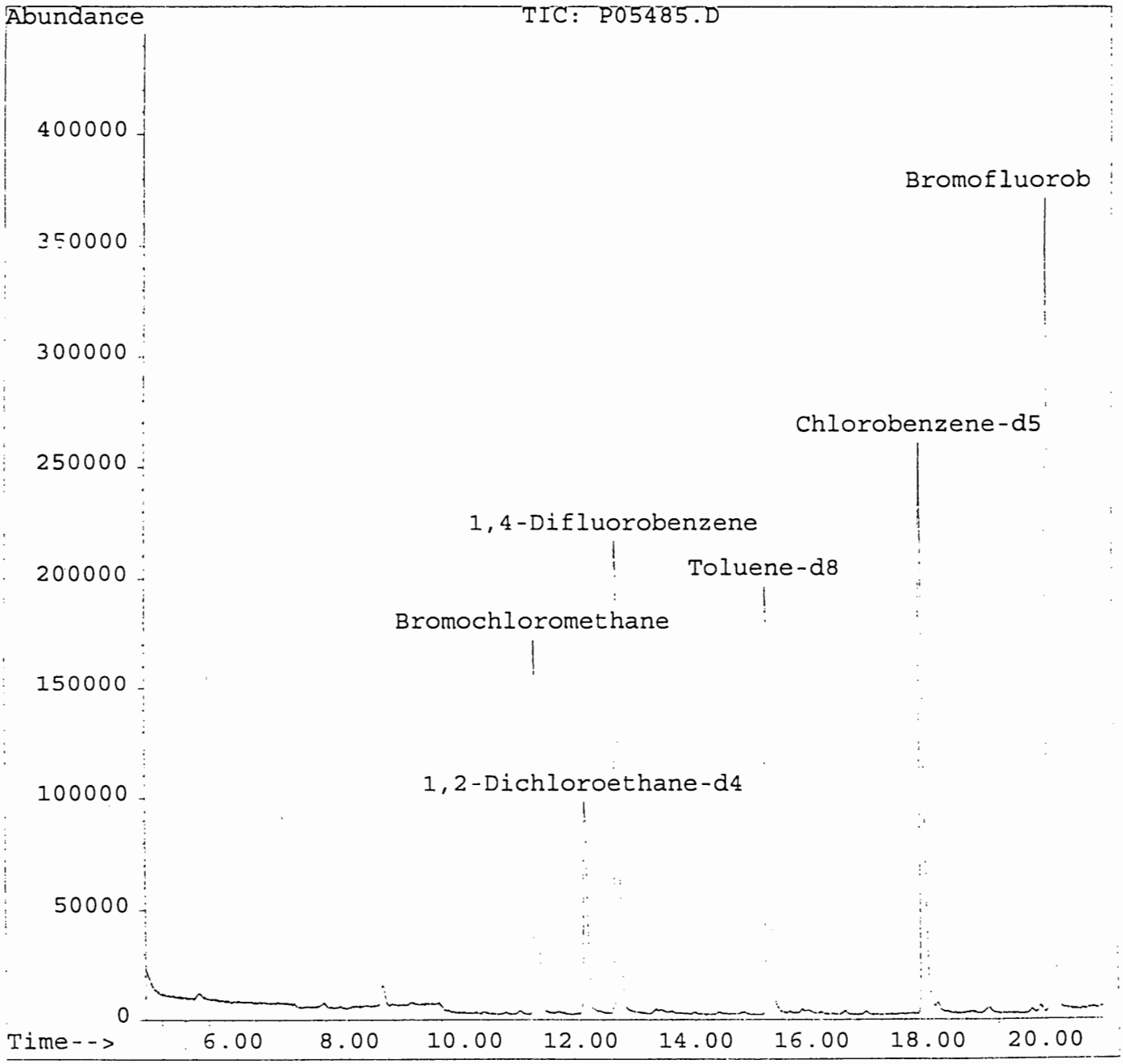
Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Data File : C:\HPCHEM\1\DATA\P05485.D
Acq On : 27 Jan 97 4:00 pm
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:50 1997

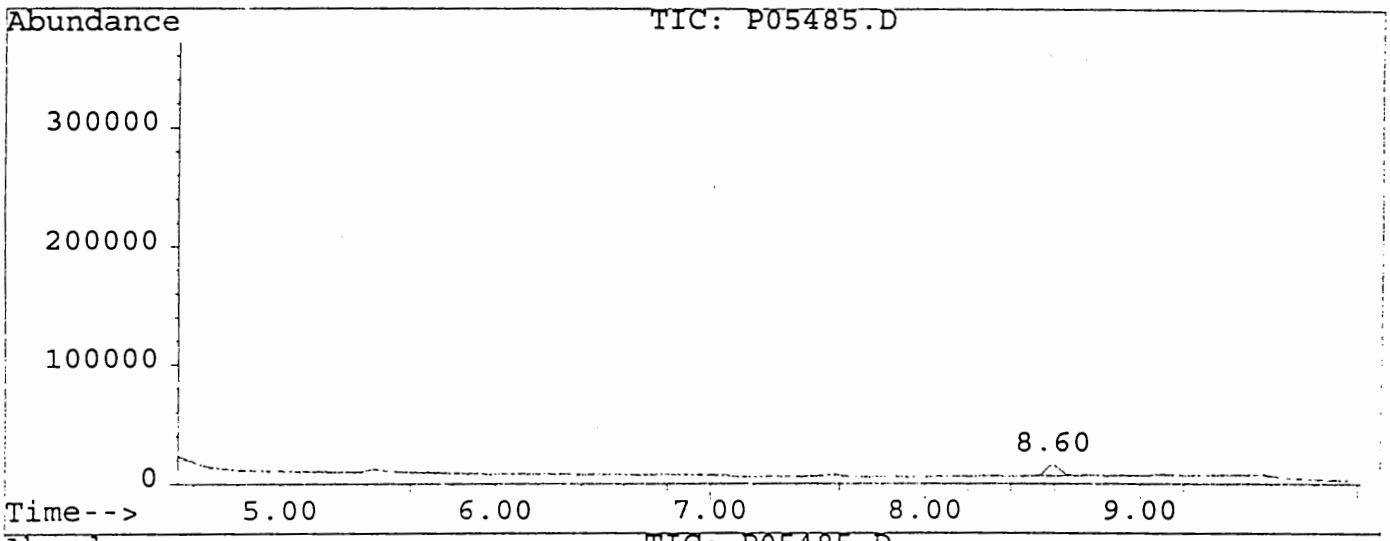
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

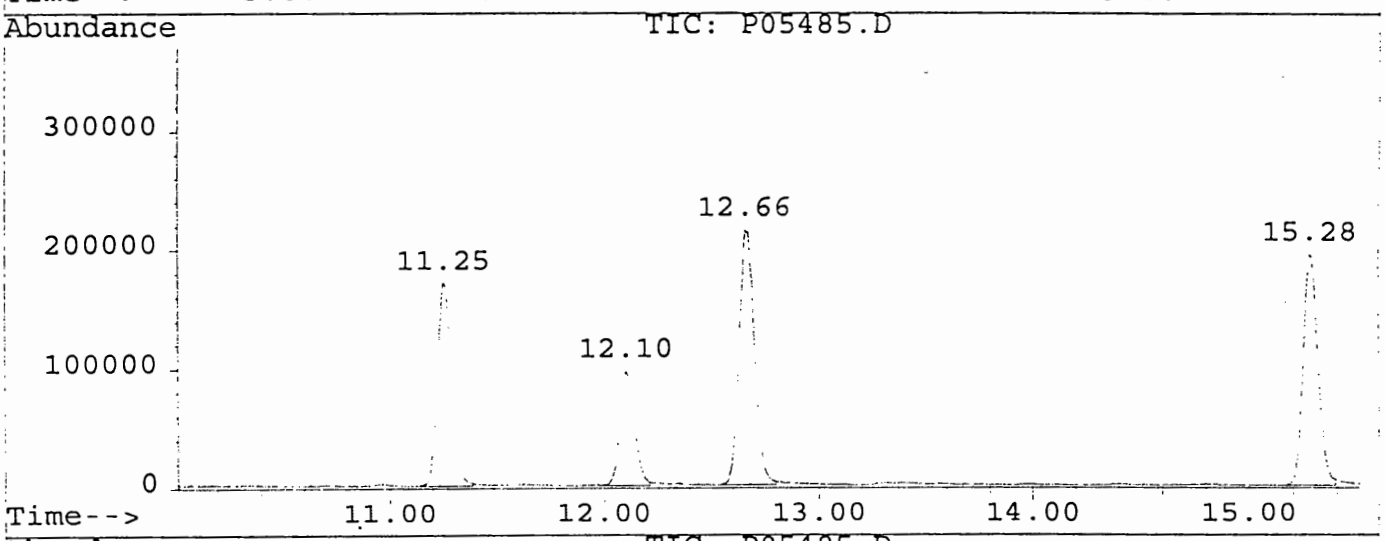
Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration

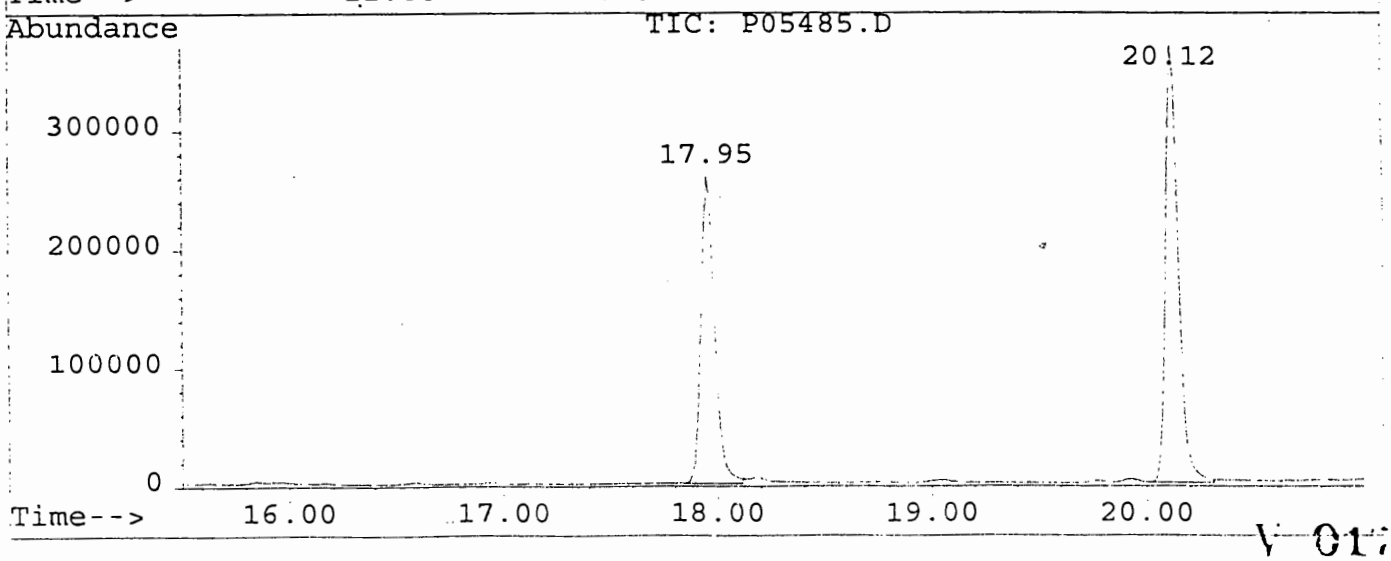


V 0172

File : C:\HPCHEM\1\DATA\P05485.D
Operator : GLENN
Acquired : 27 Jan 97 16:00 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: VBLK27
Misc Info : H5970-3 1/27/97 5.0G
Vial Number: 2







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05485.D
Acq On : 27 Jan 97 16:00
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:50 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Mon Jan 27 15:49:29 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	101911	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.66	114	382720	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.95	117	316692	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	167620	53.26	UG/L	106.53%
34) Toluene-d8	15.29	98	313901	48.24	UG/L	96.48%
43) Bromofluorobenzene	20.12	95	298652	49.11	UG/L	98.22%
Target Compounds						Qvalue
9) Methylene Chloride	8.60	84	10084	2.89	UG/L	89

(#) = qualifier out of range (m) = manual integration

V 01?.1

Library Search Compound Report

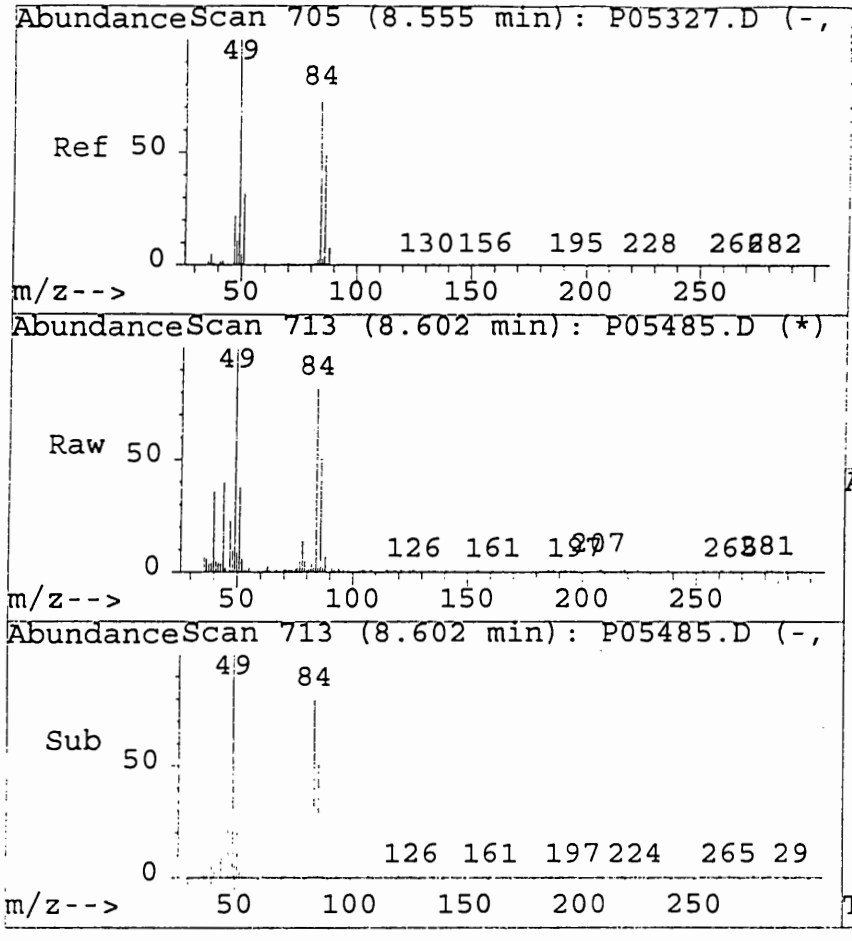
Data File : C:\HPCHEM\1\DATA\P05485.D
Acq On : 27 Jan 97 16:00
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

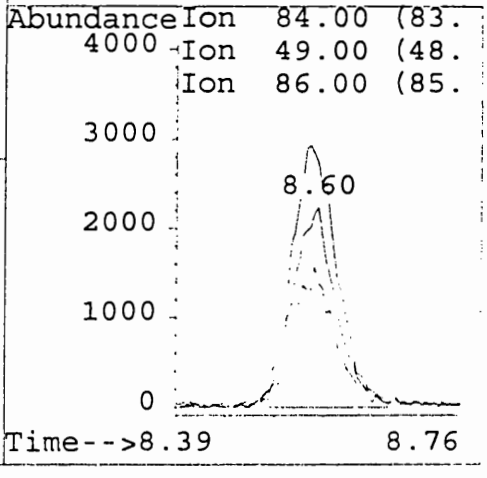
V 0175



#9
Methylene Chloride
Concen: 2.89 UG/L
RT: 8.60 min Scan# 713
Delta R.T. 0.01 min
Lab File: P05485.D
Acq: 27 Jan 97 4:00 pm

Tgt Ion:84 Resp: 10084

Ion	Ratio	Lower	Upper
84	100		
49	119.4	113.6	153.6
86	61.5	48.1	88.1
0	0.0	0.0	0.0



Sample Name: VBLK27
Misc. Info: H5970-3 1/27/97 5.0G
P05485.D CLPS.M Tue Feb 11 11:00:33 1997 MASSPEC1 Page 3

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: VBLK28

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05499.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: VBLK28

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05499.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

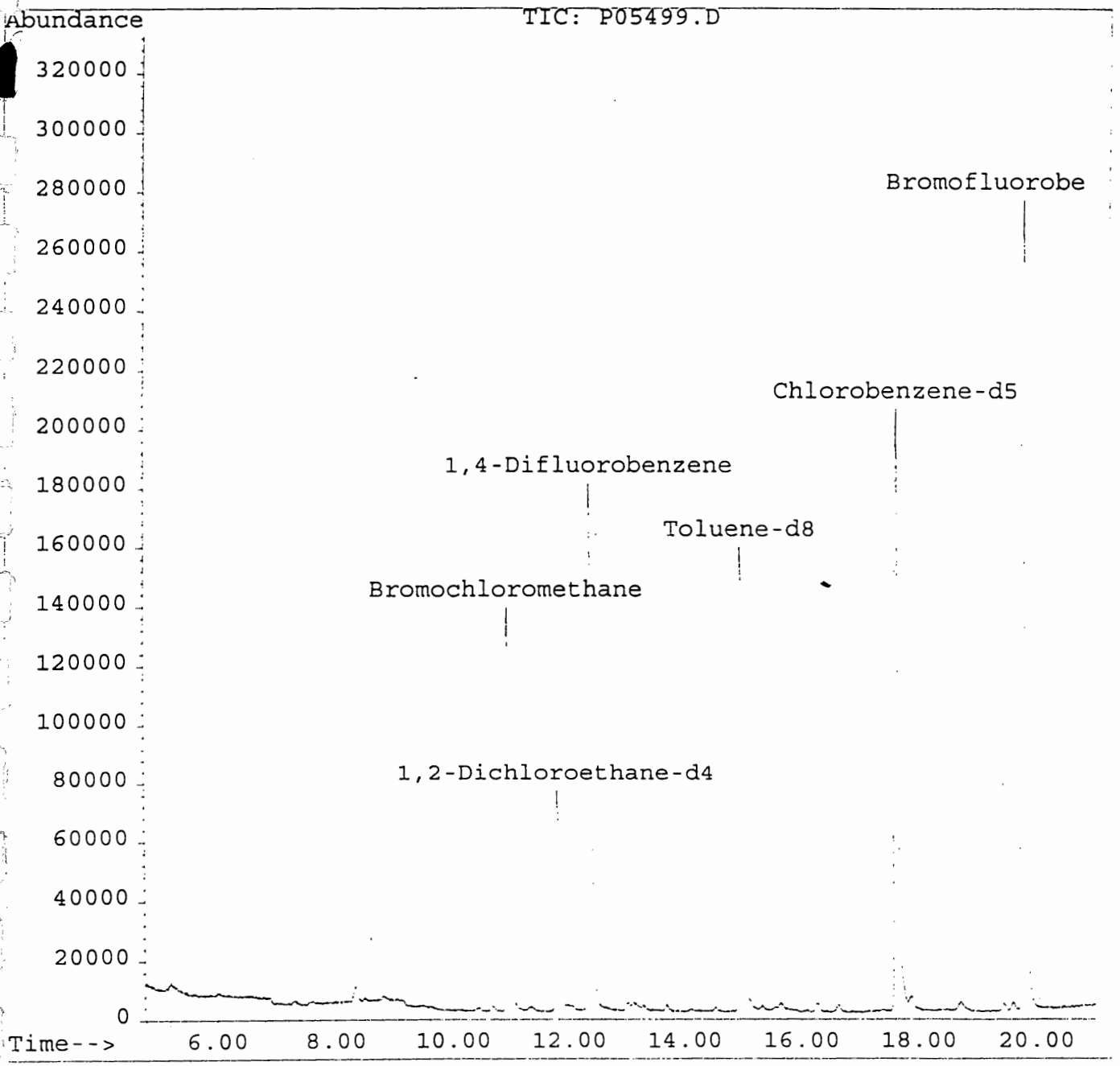
V 0175

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05499.D
Acq On : 28 Jan 97 1:02 pm
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML
Quant Time: Feb 11 8:36 1997

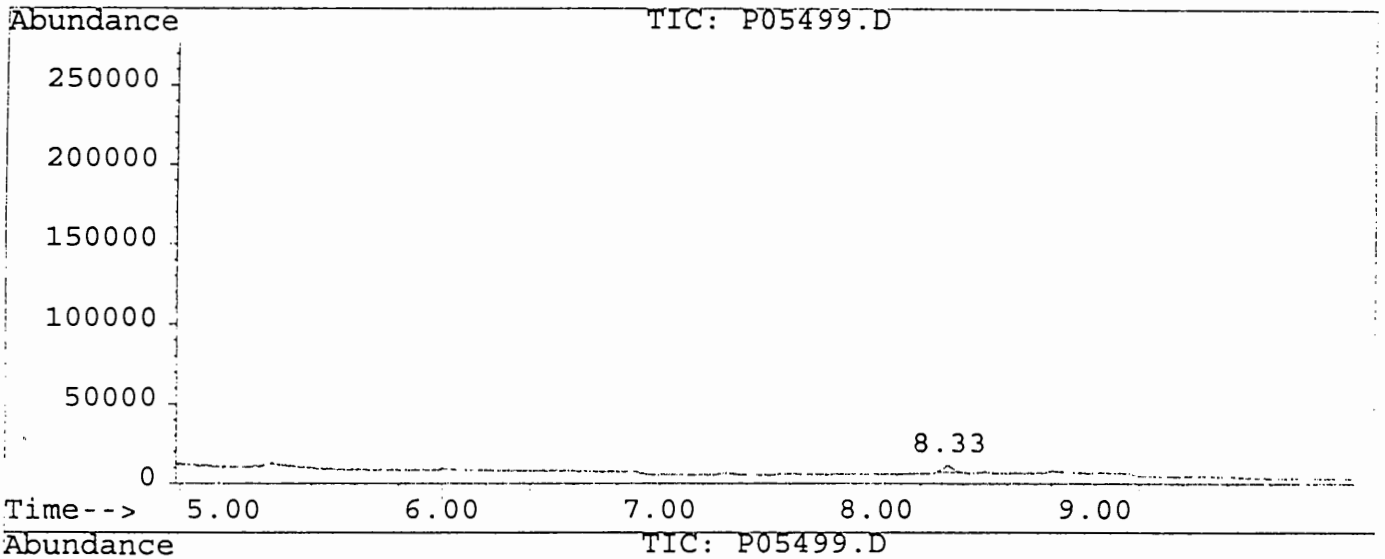
Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

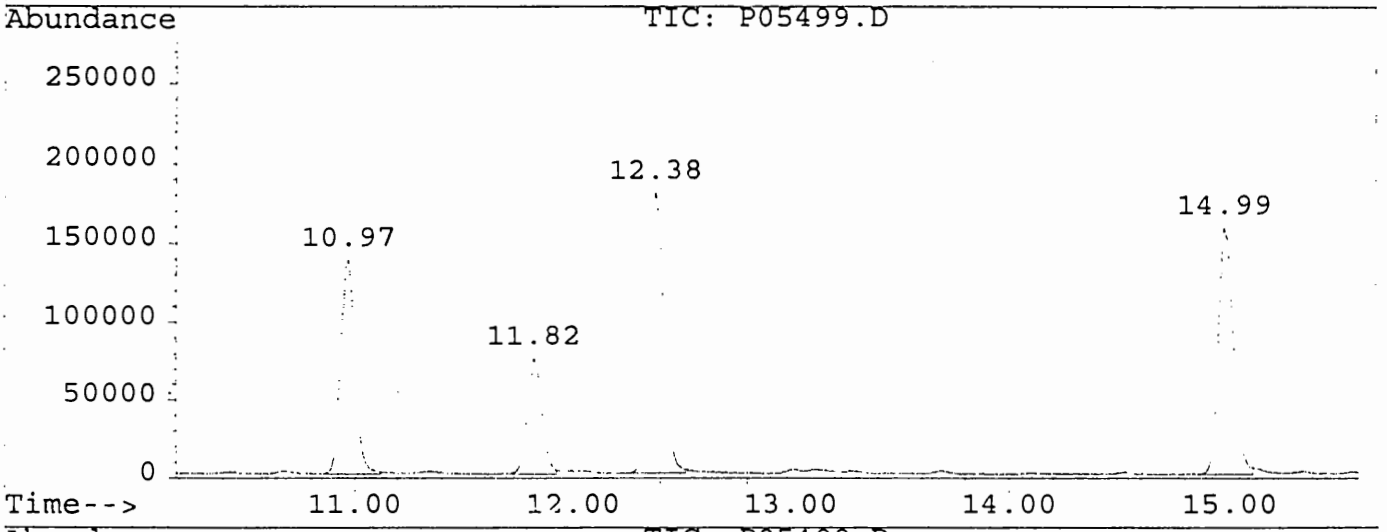
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration

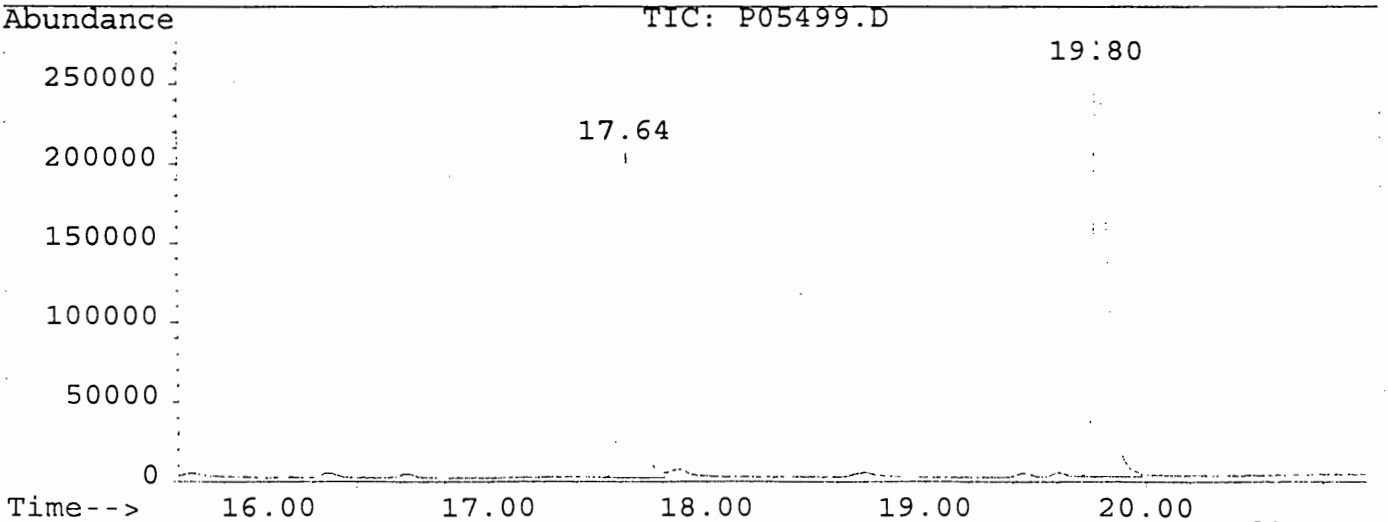


V 0179

File : C:\HPCHEM\1\DATA\P05499.D
Operator : GLENN
Acquired : 28 Jan 97 13:02 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: VBLK28
Misc Info : H5970-3 1/28/97 5.0ML
Vial Number: 4







Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05499.D
Acq On : 28 Jan 97 13:02
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML
Quant Time: Feb 11 8:36 1997

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.97	128	81220	50.00	UG/L	0.02
21) 1,4-Difluorobenzene	12.38	114	314671	50.00	UG/L	0.02
33) Chlorobenzene-d5	17.64	117	248528	50.00	UG/L	0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.82	65	128361	51.98	UG/L	103.96%
34) Toluene-d8	14.99	98	253350	50.93	UG/L	101.86%
43) Bromofluorobenzene	19.80	95	240599	50.31	UG/L	100.61%
Target Compounds						Qvalue
9) Methylene Chloride	8.32	84	5179	1.80	UG/L	89

(#) = qualifier out of range (m) = manual integration

V 0151

Library Search Compound Report

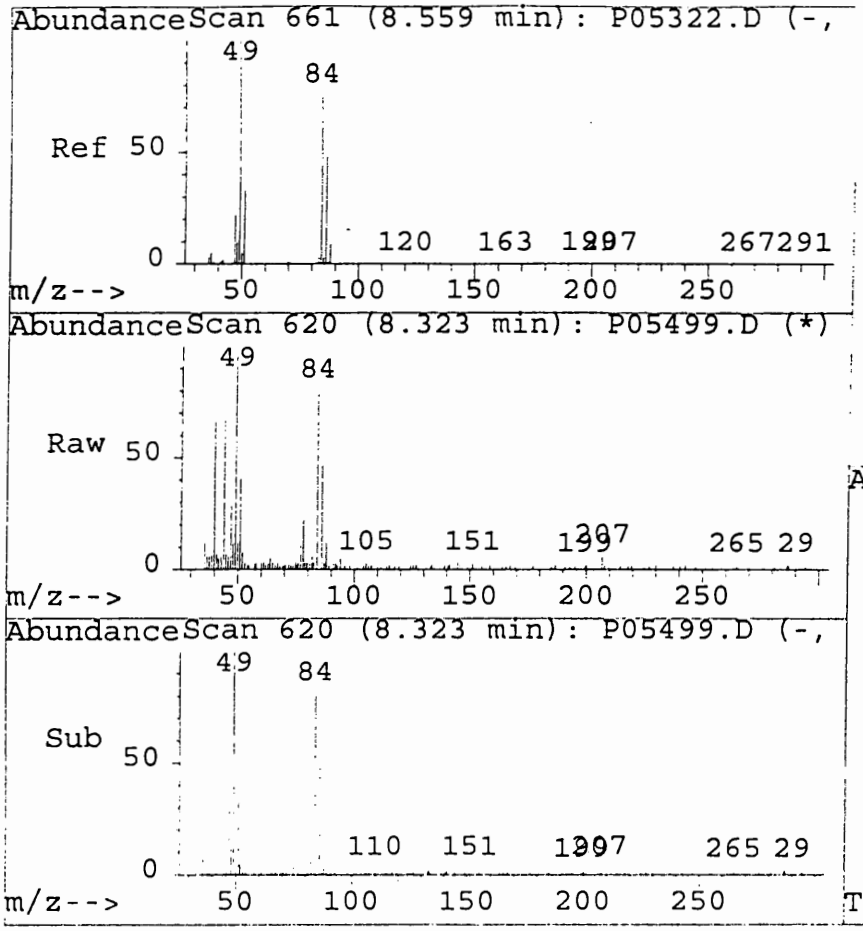
Data File : C:\HPCHEM\1\DATA\P05499.D
Acq On : 28 Jan 97 13:02
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

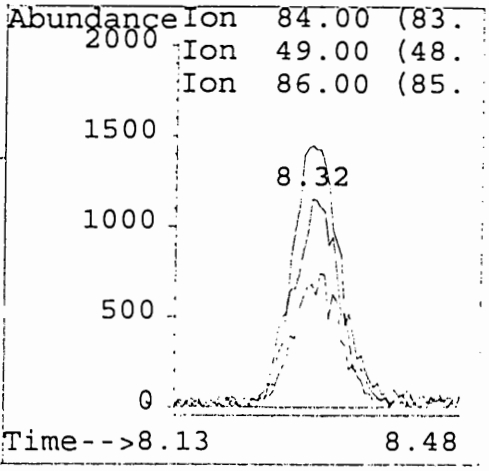
V 0152



#9
Methylene Chloride
Concen: 1.80 UG/L
RT: 8.32 min Scan# 620
Delta R.T. -0.00 min
Lab File: P05499.D
Acq: 28 Jan 97 1:02 pm

Tgt Ion:84 Resp: 5179

Ion	Ratio	Lower	Upper
84	100		
49	121.1	113.6	153.6
86	59.1	48.1	88.1
0	0.0	0.0	0.0



V 0183

Sample Name: VBLK28
Misc. Info: H5970-3 1/28/97 5.0ML
P05499.D CLPW.M Tue Feb 11 08:56:47 1997 MASSPEC1 Page 3

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 123

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

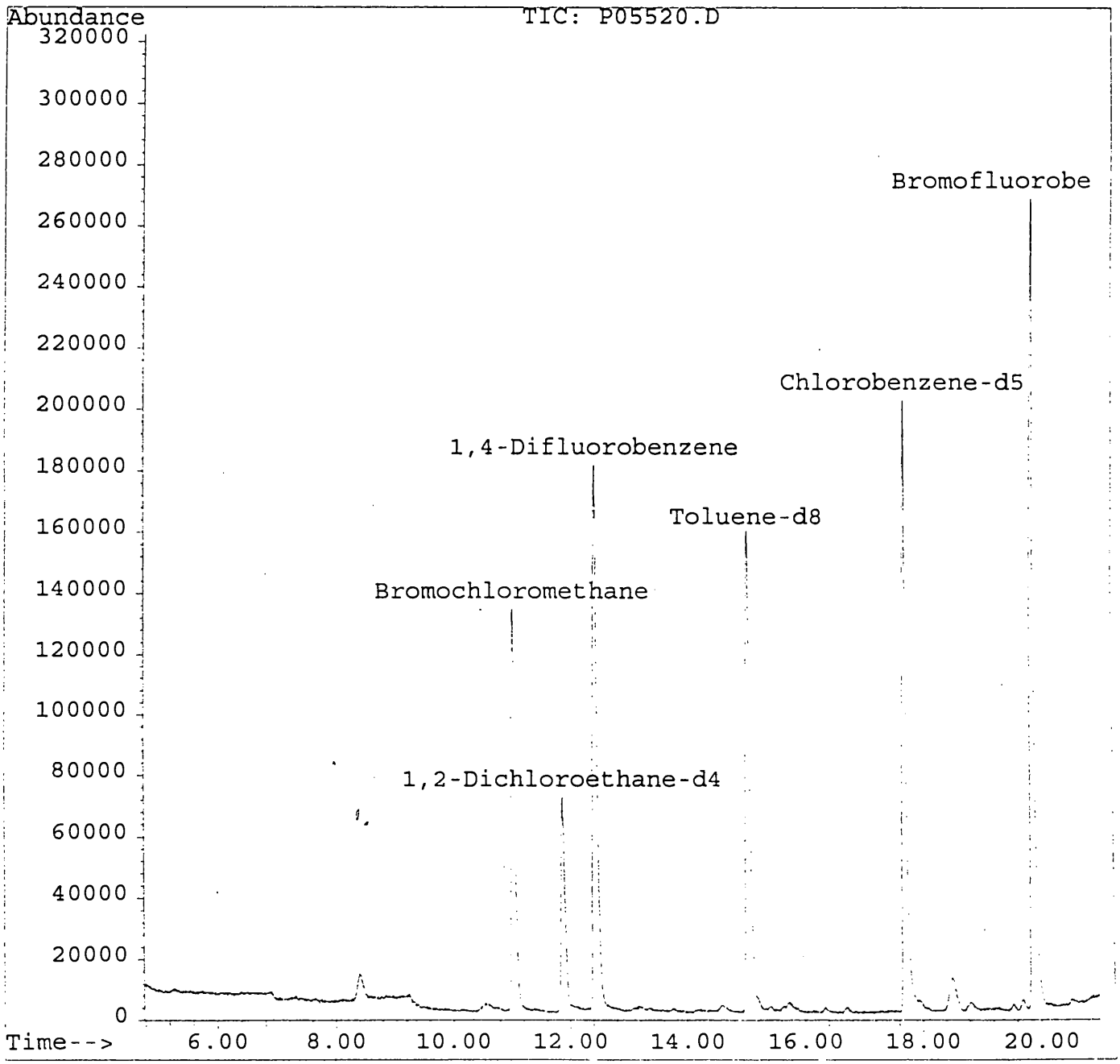
V 0155

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05520.D
Acq On : 29 Jan 97 2:36 pm
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML
Quant Time: Feb 11 10:14 1997

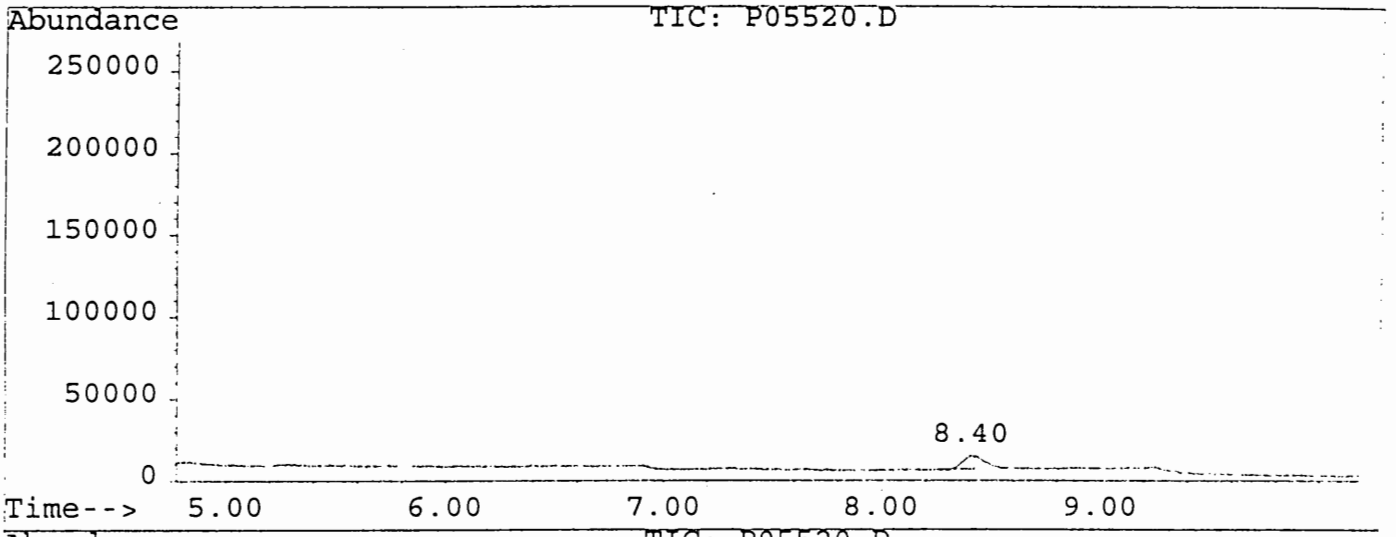
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

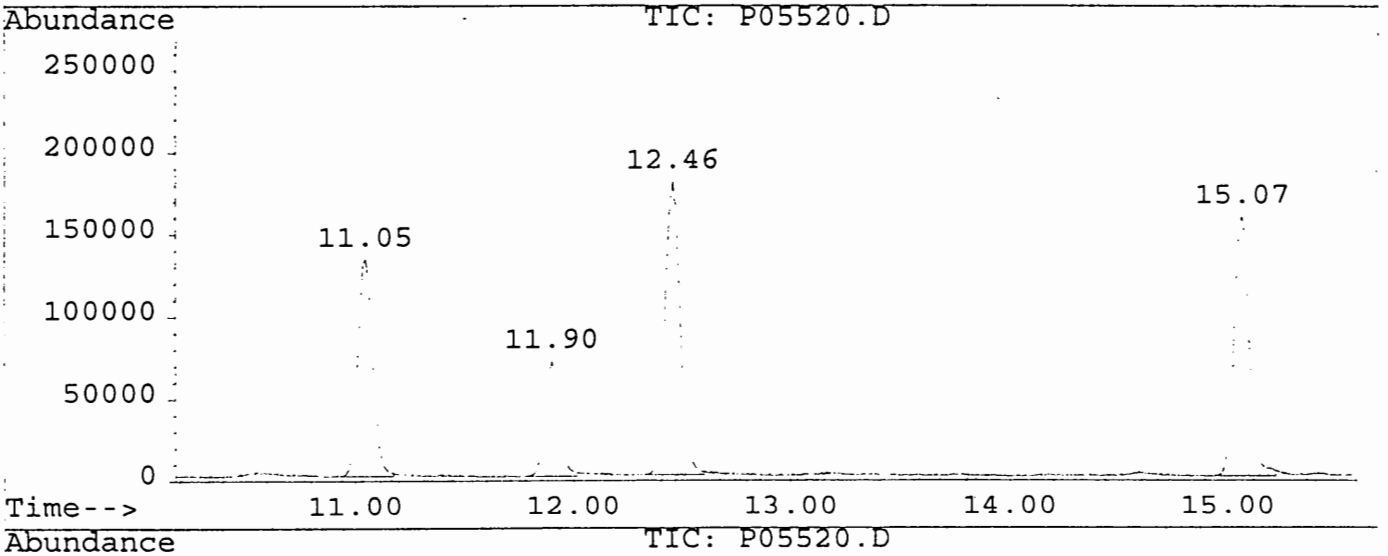
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Feb 06 11:33:19 1997
Response via : Single Level Calibration

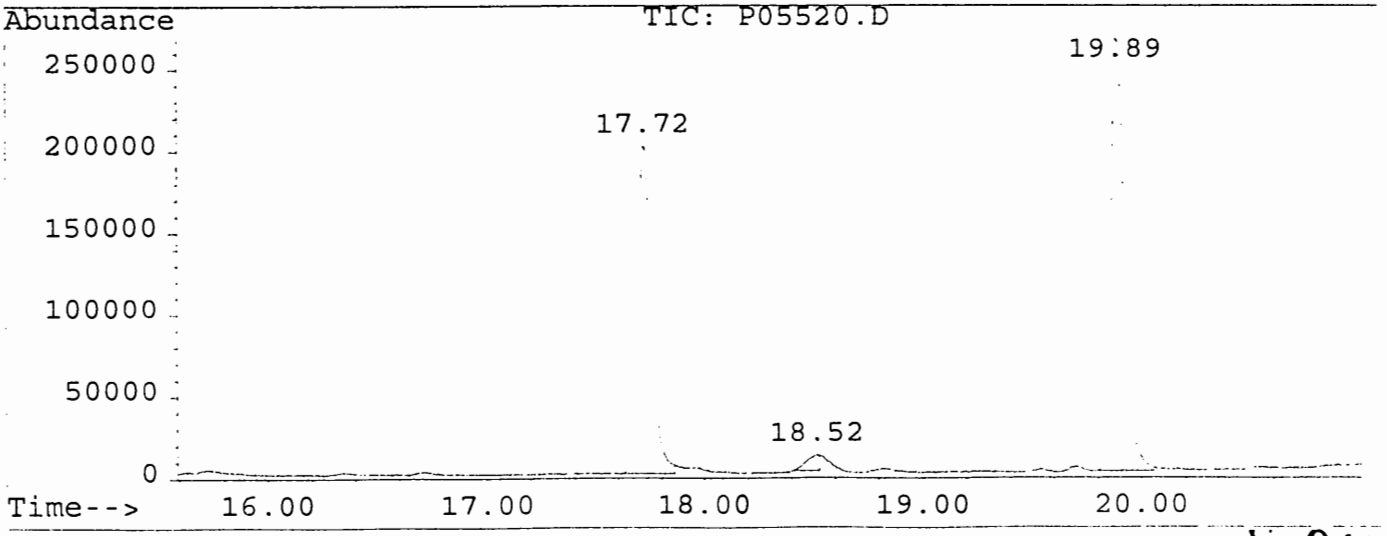


V 0156

File : C:\HPCHEM\1\DATA\P05520.D
Operator : GLENN
Acquired : 29 Jan 97 14:36 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: VBLK29
Misc Info : H5970-3 1/29/97 5.0ML
Vial Number: 2







V 0187

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05520.D
Acq On : 29 Jan 97 14:36
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML
Quant Time: Feb 11 10:14 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 29 14:26:15 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.05	128	80883	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.46	114	321665	50.00	UG/L	-0.01
33) Chlorobenzene-d5	17.72	117	254883	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.90	65	121099	53.16	UG/L	106.32%
34) Toluene-d8	15.06	98	257208	48.69	UG/L	97.38%
43) Bromofluorobenzene	19.89	95	236940	49.95	UG/L	99.90%
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05520.D
Acq On : 29 Jan 97 14:36
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0159

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS PERFORMED BY RTE DATA SYSTEM OF HP

$$CONC = \frac{Ax}{Ais \times RRF} \quad \frac{Is}{W}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

Ax = Area of characteristic ion of compound

Ais = Area of charhacteristic ion of internal standard

RRF = Relative response factor as area per (ng) of compound, divided by area per ng of respective internal standard

Is = Amount of internal standard injected (ng)

W = Volume of sample in (ml) or dry weight (g)

Generally the amount of each internal standard injected is 250 ng.

H2M LABS, INC.

V. DOCUMENTATION FOR VOLATILE ORGANICS

A. LOG BOOK PAGES
B. REPORTING ANALYST SIGNATURE PAGE

H2M LABS, INC.

	LOT #	SOLN ID
Surr.		
I.S.		
M.S.		
QC Check		

VOLATILE

SCAN: VOA **INSTRUMENT:** HS970-3 **COLUMN:** RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
12/26/96	P05317		9636749	5.0g	1	1523	JBacchi
"	P05318		9636749 DL	0.8g	2	1618	"
12/31/96	P05319	50ng BFB		5.0ml	1	0905	JBacchi
	P05320	VSTD010			3	1043	
	P05321	VSTD020 *			4	1119	
	P05322	VSTD050 *			CLPW.M 5	1150	
	P05323	VSTD100 *			6	1221	
	P05324	VSTD200 *			7	1252	
	P05325	VSTD010 *			9	1323	
	P05326	VSTD020 *			10	1354	
	P05327	VSTD050 *			CLPS.M 11	1425	
	P05328	VSTD100 *			12	1456	
	P05329	VSTD200 *			13	1527	
↓	P05330	VSTD010 *		↓	CLPW.M 14	1642	↓ Backed up 1/2/97
1/2/97	P05331	50ng BFB		5.0ml	8	1036	JBacchi
	P05332	VSTD050		"	CLPS.M 8	1153	
	P05333	VBLK2		5.0g	9	1306	
	P05334	VHBLK2			10	1402	
	P05335	EP-1	96370 60		11	1433	
	P05336	MSB2			12	1506	
	P05337	EP-1MS	9637060MS		13	1550	
↓	P05338	EP-1MSD	9637060 MSD	↓	14	1621	↓

H2M LABS, INC.

VOLATILE

	#	ID
Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA INSTRUMENT: HP5970-3 COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS		TIME INJ.	ANALYSTS SIGNATURE
1/24/97	P05471	B60206	9702020	5.0g		11	1543	
	P05472	B60207	9702021			12	1614	
	P05473	B60208	9702022			13	1645	
	P05474	B60209	9702023			14	1716	
	P05475	B60210	9702024			15	1747	
	P05476	B60211	9702025		Rec 2.0g	16	1818	
	P05477	B60212	9702026			1	1849	
	P05478	B60213	9702027			2	1920	
	P05479	B60215	9702029		Rec 2.0g	3	1950	
	P05480	B60216	9702030			4	2021	
	P05481	B60217	9702031			5	2052	
	P05482		9701628		Rec 1.0g	6	2123	
1/27/97	P05483	50ng BFB		1ul	Direct		1246	
	P05484	VSTD050		5.0ml		1	1521	
	P05485	VBLK27		5.0g		2	1600	
	P05486	B60211DL	9702025DL	2.0g		3	1644	
	P05487	B60215DL	9702029DL	2.0g		4	1715	
	P05488	B60218	9702032	5.0g		5	1746	
	P05489	B60231	9702300			6	1817	
	P05490	B60232	9702301			7	1847	
	P05491	B60233	9702302			8	1918	
	P05492	B60234	9702303			9	1949	

P 0059 V 0193

H2M LABS, INC.

VOLATILE

	#	
Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA **INSTRUMENT:** H5970-3 **COLUMN:** RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS		TIME INJ.	ANALYSTS SIGNATURE
1/27/97	P05493	B60236	9702304	5.0g		10	2020	JBoducchi
↓	P05494	B60241	9702306	↓		11	2051	↓ Backed up 1/28
1/28/97	P05495	50ng BFB		1ul	Direct		0931	JBoducchi
	P05496	VSTD050		5.0ml	CLPS.M	1	1010	
	P05497	VBLK28		5.0g		2	1103	
	P05498	VSTD050		5.0ml	CLPW.M	3	1221	
	P05499	VBLK28		"		4	1302	
	P05500	B60242	9702307	5.0g		5	1345	
	P05501	B60243	9702308			6	1416	
	P05502	B60250	9702421			7	1447	
	P05503	B60251	9702422			8	1518	
	P05504	B60252	9702423	↓	Re No purge	9	1549	
	P05505	B60220	9702037	5.0ml	Confirm then 1:20	10	1620	
	P05506	B60221	9702038		Confirm then 1:5	11	1649	
	P05507	B60222	9702039		Dilute 1:5	12	1719	
	P05508	Trip Blank	9702046		Confirm	13	1749	
	P05509	B60226	9702290			14	1819	
	P05510	B60227	9702291		Dilute 1:5	15	1849	
	P05511	B60228	9702292			16	1919	
	P05512	B60229	9702293			1	1949	
	P05513	B60230	9702294	↓		2	2018	
↓	P05514		9701628	1.0g		3	2048	↓