

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

MAR 29 1999



Prepared for:

**New York State
Department of
Environmental Conservation**

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

Division of Environmental Remediation
Michael J. O'Toole, Director

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

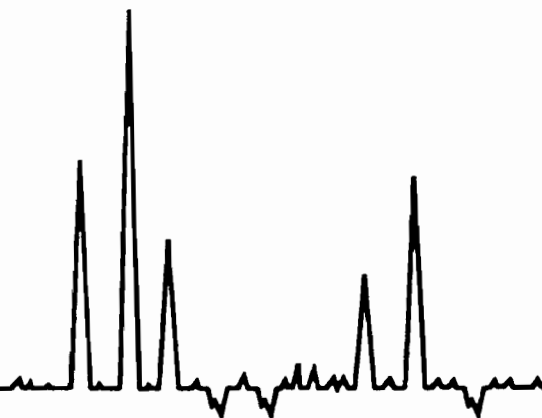
CASE #: RA096 SDG #: 0122

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

SEMIVOLATILES

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H2M LABS, INC.

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B 0002

5/1/12 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

B 0003

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	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	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.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

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:

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

H2M LABS, INC.

II. SAMPLE DATA PACKAGE FOR SEMIVOLATILES

- A. REPORTS
- B. RAW DATA

B 0013

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

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

and df = dilution factor

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

$$\frac{(330 \text{ U}) \times 10}{0.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

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 JJ.) 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.

H2M LABS, INC.

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
TENTATIVELY IDENTIFIED COMPOUNDS

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

CONCENTRATION UNITS:

Number TICs found: 75

(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 ¹¹⁸
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.33	9900	JN ¹¹⁵
3.	unknown alkane	4.49	710	J ⁶
4.	unknown alkane	4.59	820	J ⁶
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

@ 2/19/97

B 0018

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03348.D

Acq On : 18 Feb 97 9:24 pm

Sample : 9702028

Misc : B60214 H5972 5 UL BN392 => 0.5 ML

Quant Time: Feb 19 11:30 1997

Vial: 13

Operator: ANNMARIE

Inst : 5972 - GC

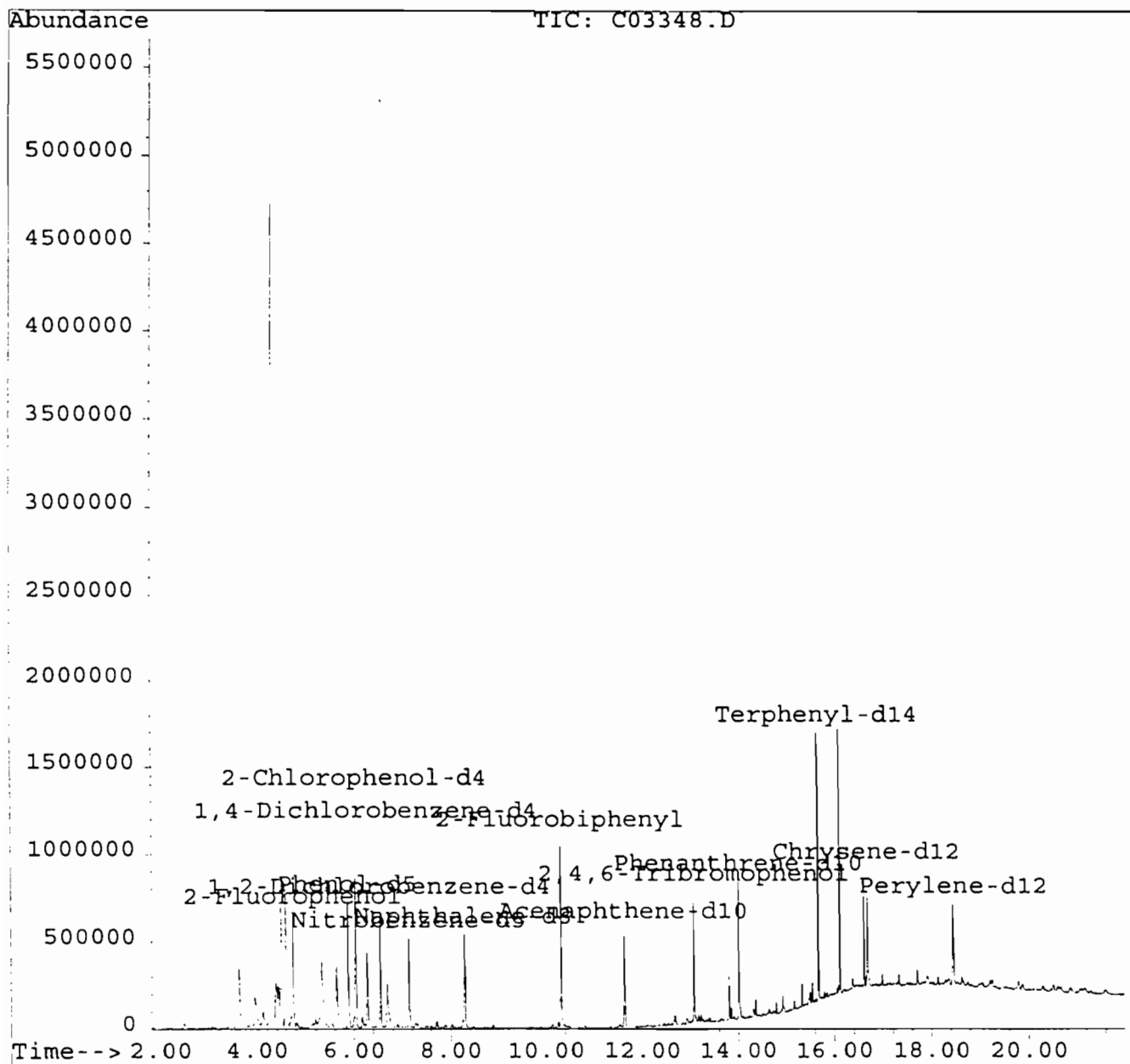
Multiplr: 1.00

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 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

CONCENTRATION UNITS:

CAS NO. COMPOUND (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

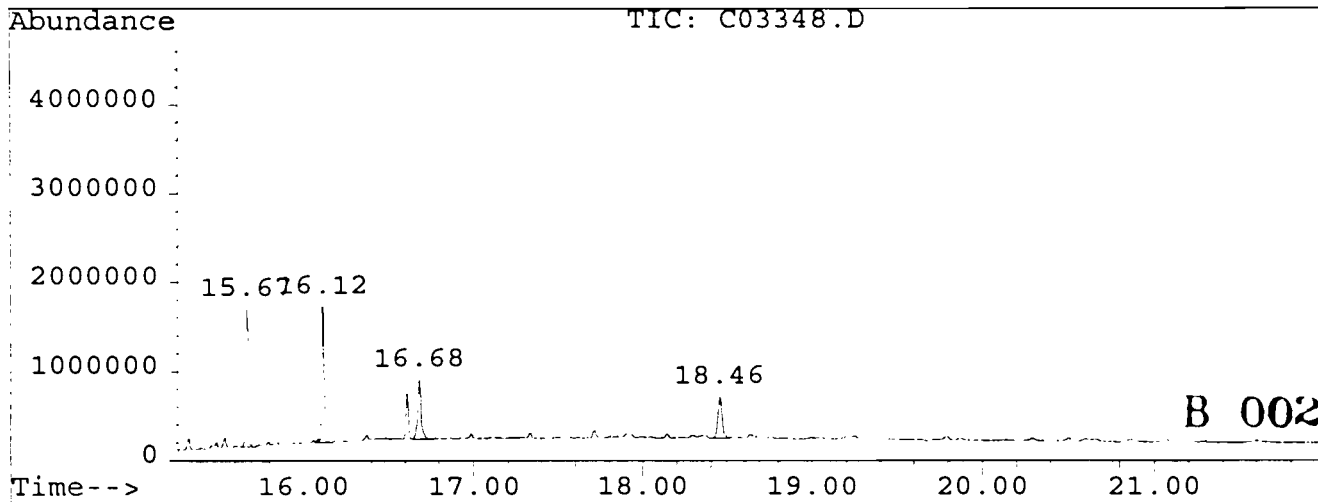
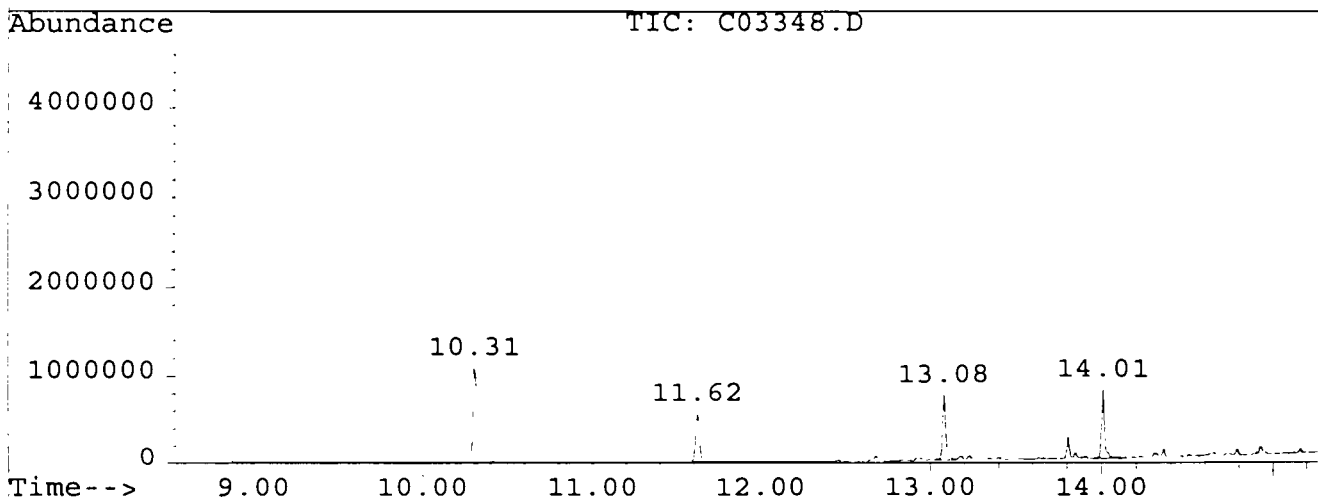
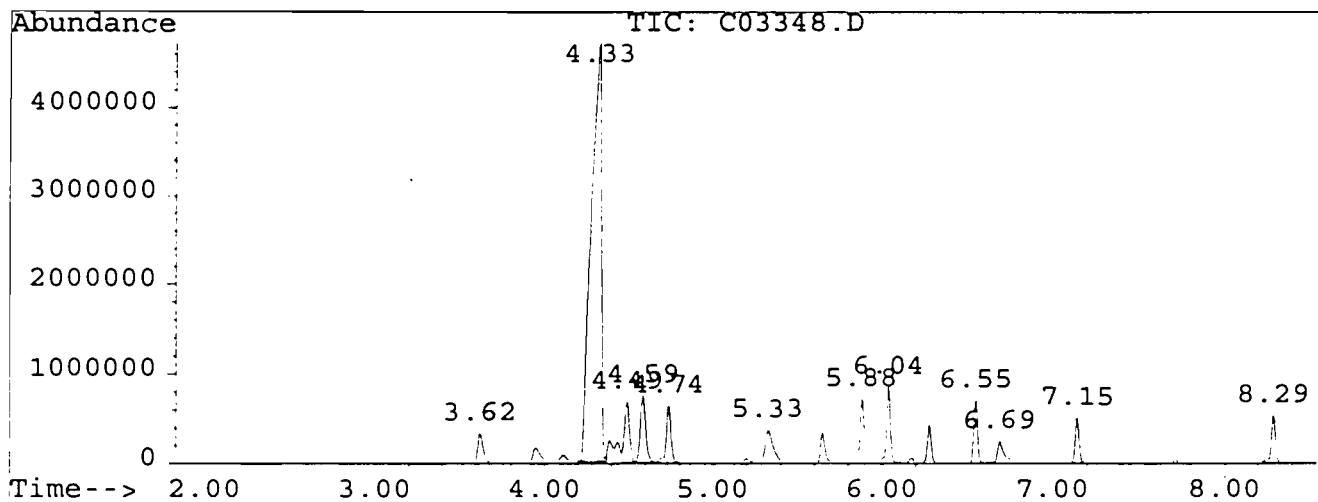
GPC Cleanup: (Y/N) Y pH: 8

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

(ea) 2/19/97

B 0021

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

C03348.D CLP2.M

Wed Feb 19 11:39:58 1997

H5890C

Page 1

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

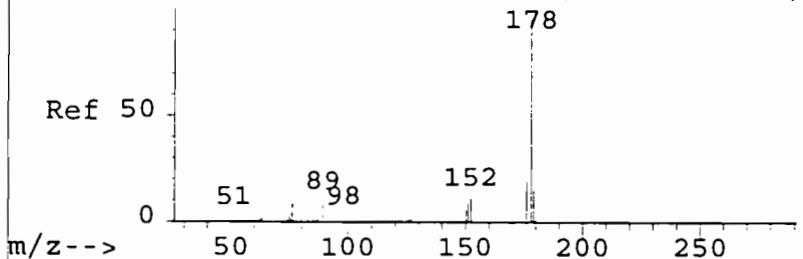
Title: CLP BNA Calibration

Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
3-Penten-2-one, 4-me	3.62	21.1	ng	745817	ISTD01	6.28	1414813	40.0
2-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
Octane, 3-methyl-	4.59	46.5	ng	1645235	ISTD01	6.28	1414813	40.0
4-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

AbundanceScan 1378 (14.224 min): C01424.D (



#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

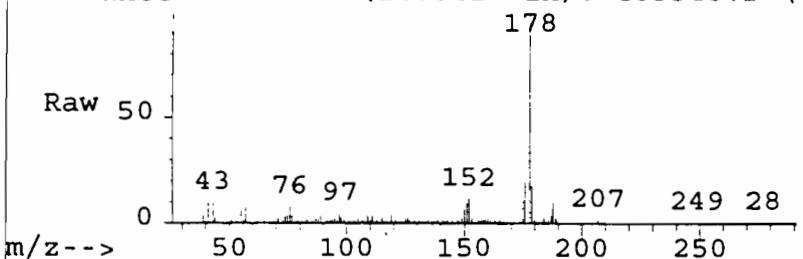
178 100

179 17.6 12.2 18.3

176 23.1 14.9 22.4#

0 0.0 0.0 0.0

AbundanceScan 1683 (14.041 min): C03348.D (



AbundanceIon 178.00 (177

30000 Ion 179.00 (178

Ion 176.00 (175

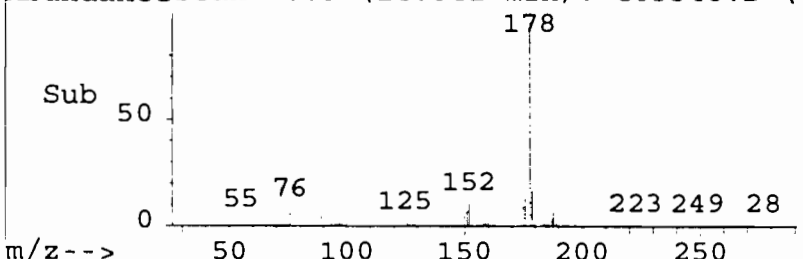
14.04

20000

10000

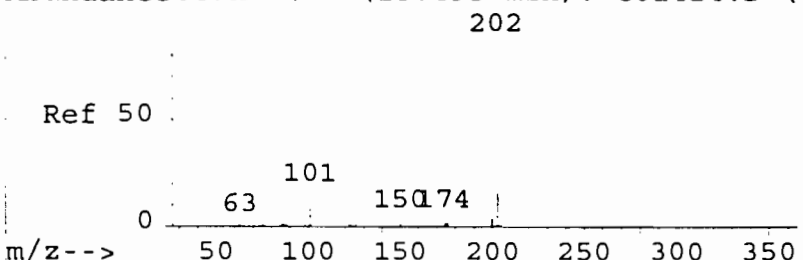
0

AbundanceScan 1683 (14.041 min): C03348.D (



Time-->13.84 14.10

AbundanceScan 1553 (15.495 min): C01424.D (



#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

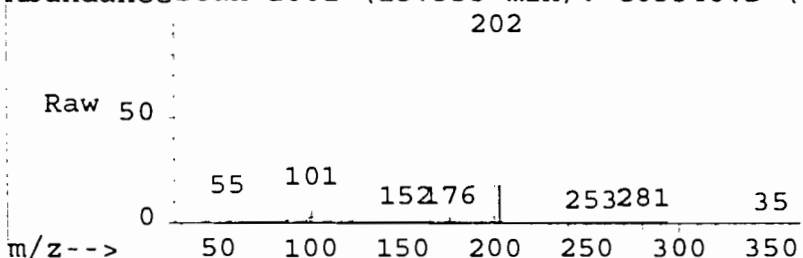
202 100

101 13.0 12.0 17.9

0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceScan 1861 (15.333 min): C03348.D (



AbundanceIon 202.05 (201

60000 Ion 101.00 (100

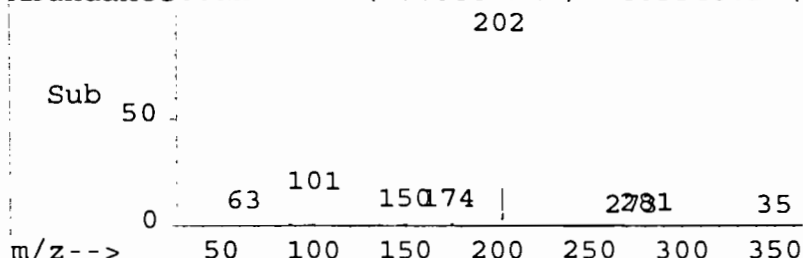
15.33

40000

20000

0

AbundanceScan 1861 (15.333 min): C03348.D (



Time-->15.18 15.40

Sample Name: 9702028

Misc. Info: B60214

C03348.D CLP2.M

H5972 5 UL BN392 => 0.5 ML

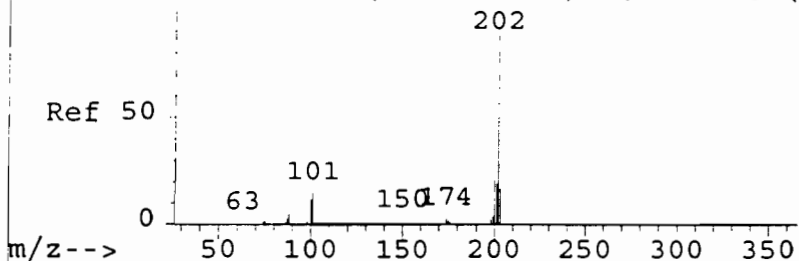
Wed Feb 19 11:40:15 1997

H5890C

B 0023

Page 3

AbundanceScan 1583 (15.712 min): C01424.D (



#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

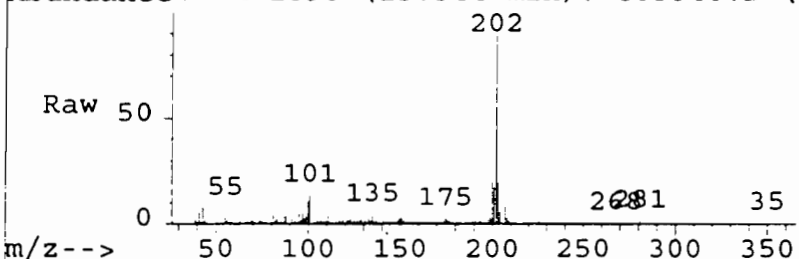
202 100

101 15.8 14.4 21.5

100 15.1 12.0 17.9

0 0.0 0.0 0.0

AbundanceScan 1890 (15.544 min): C03348.D (



AbundanceIon 202.00 (201

Ion 101.00 (100

Ion 100.00 (99.

15.54

60000

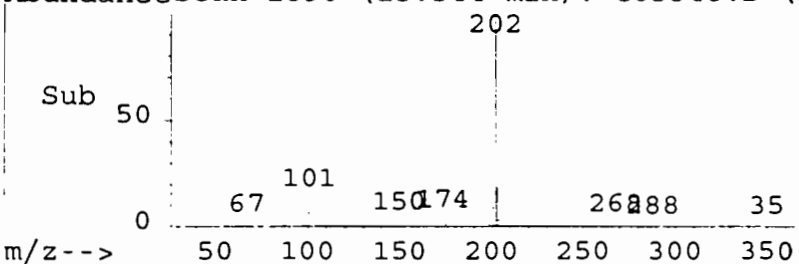
40000

20000

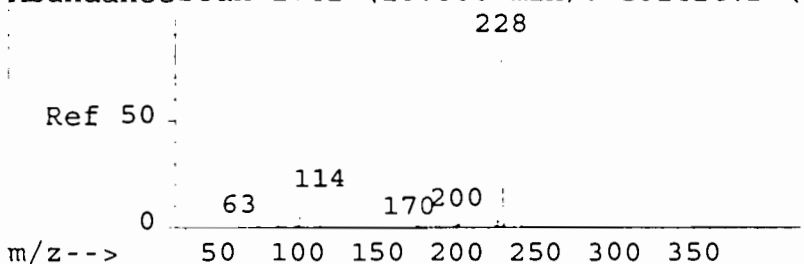
0

Time-->15.40 15.62

AbundanceScan 1890 (15.544 min): C03348.D (



AbundanceScan 1741 (16.860 min): C01424.D (



#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

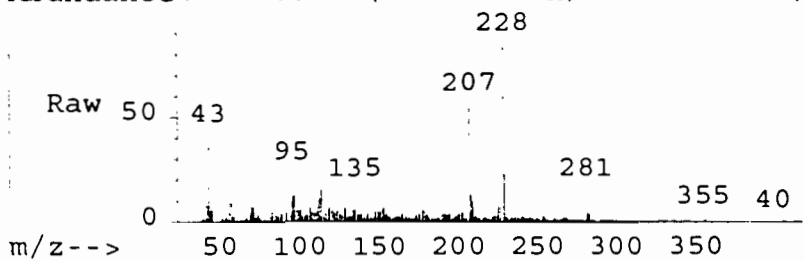
228 100

229 23.4 15.9 23.8

226 28.3 20.1 30.2

0 0.0 0.0 0.0

AbundanceScan 2044 (16.662 min): C03348.D (



AbundanceIon 228.00 (227

Ion 229.00 (228

Ion 226.00 (225

16.66

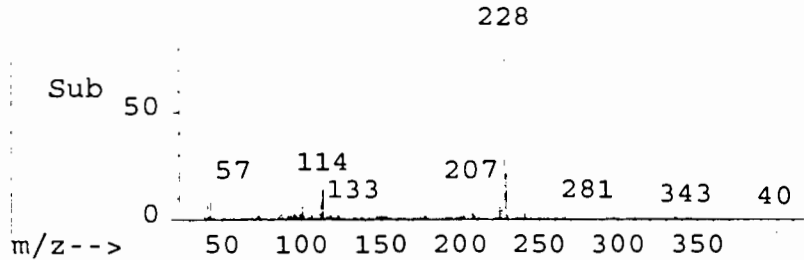
20000

10000

0

Time-->16.60 16.69

AbundanceScan 2044 (16.662 min): C03348.D (



Sample Name: 9702028

Misc. Info: B60214

C03348.D CLP2.M

H5972 5 UL BN392 => 0.5 ML

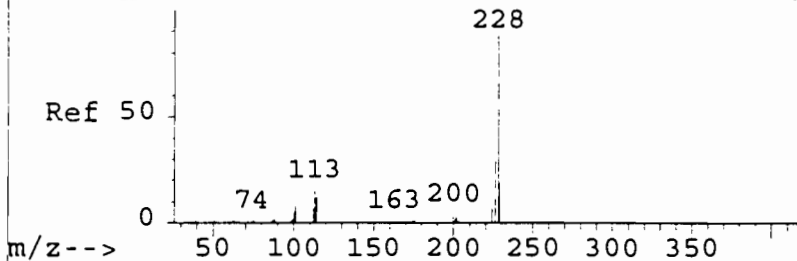
Wed Feb 19 11:40:21 1997

H5890C

B 0024

Page 4

AbundanceScan 1748 (16.910 min): C01424.D (



#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

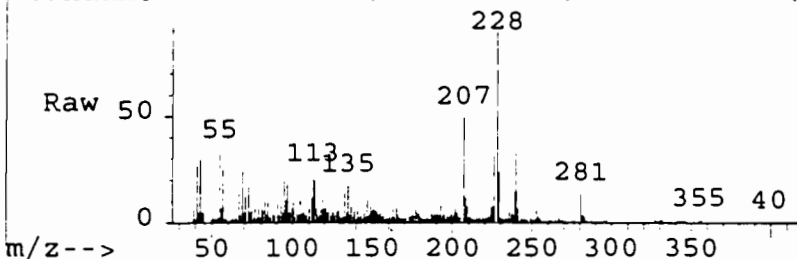
228 100

226 31.4 21.8 32.7

229 24.8 15.7 23.5#

0 0.0 0.0 0.0

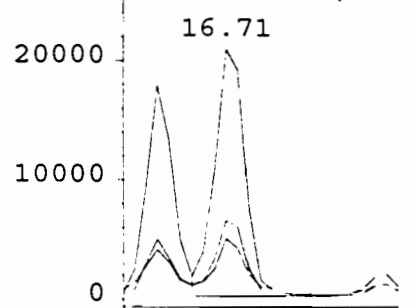
AbundanceScan 2050 (16.706 min): C03348.D (



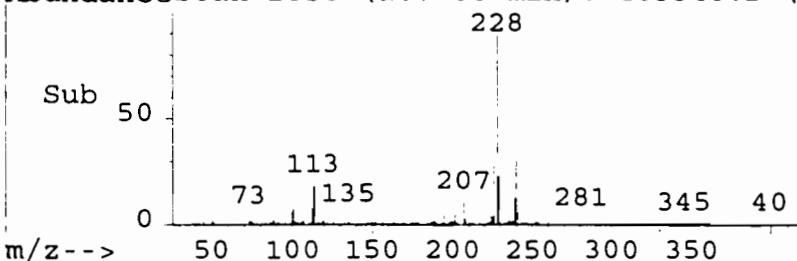
AbundanceIon 228.00 (227

Ion 226.00 (225

Ion 229.00 (228

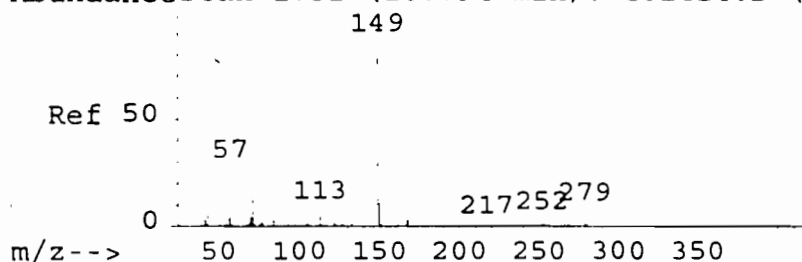


AbundanceScan 2050 (16.706 min): C03348.D (



Time-->16.64 16.79

AbundanceScan 1732 (16.794 min): C01424.D (



#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

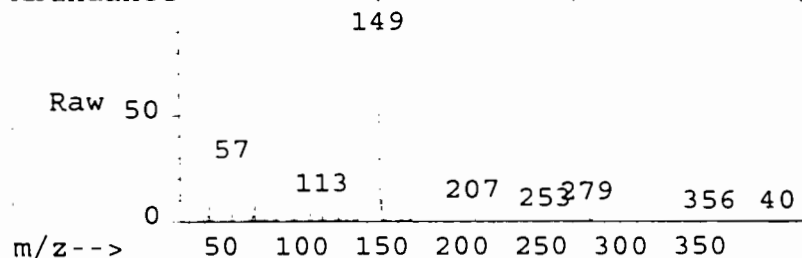
149 100

167 30.0 25.6 38.3

279 4.8 4.9 7.4#

0 0.0 0.0 0.0

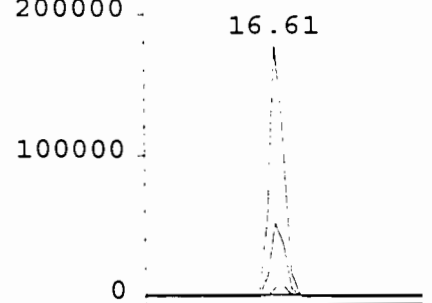
AbundanceScan 2037 (16.611 min): C03348.D (



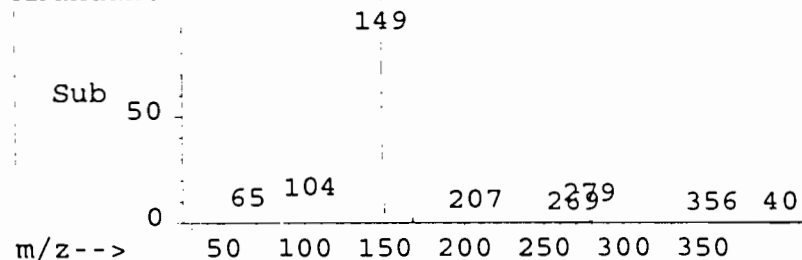
AbundanceIon 149.00 (148

Ion 167.00 (166

Ion 279.00 (278



AbundanceScan 2037 (16.611 min): C03348.D (



Time-->16.49 16.71

Sample Name: 9702028

Misc. Info: B60214

H5972 5 UL BN392 => 0.5 ML

C03348.D CLP2.M

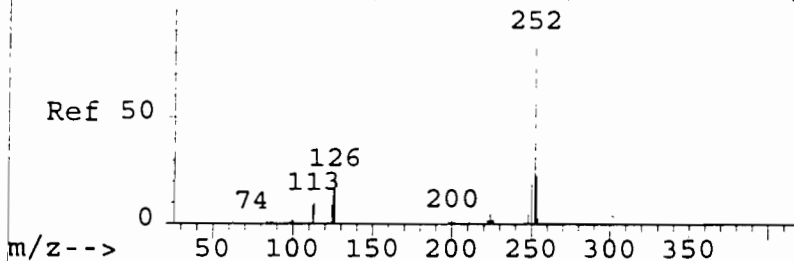
Wed Feb 19 11:40:26 1997

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AbundanceScan 1919 (18.152 min): C01424.D (

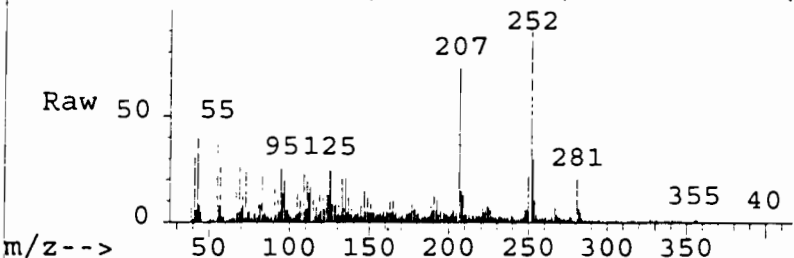


#73

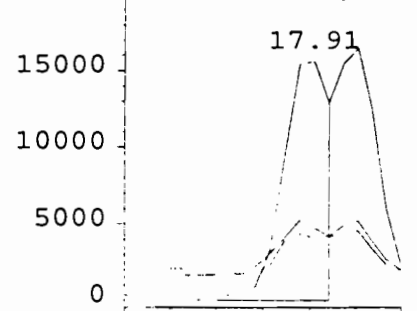
Benzo[b]fluoranthene
Concen: 3.64 ng m
RT: 17.91 min Scan# 2216
Delta R.T. -0.00 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion	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

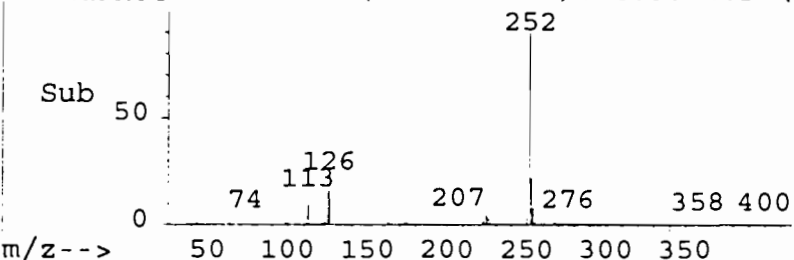
AbundanceScan 2216 (17.911 min): C03348.D (



AbundanceIon 252.00 (251
Ion 253.00 (252
Ion 125.00 (124

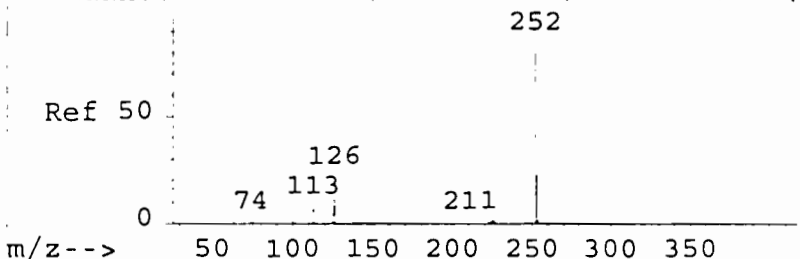


AbundanceScan 2216 (17.911 min): C03348.D (



Time-->17.82 17.93

AbundanceScan 1924 (18.188 min): C01424.D (

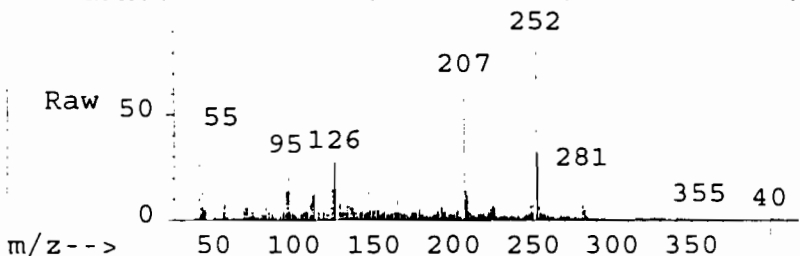


#74

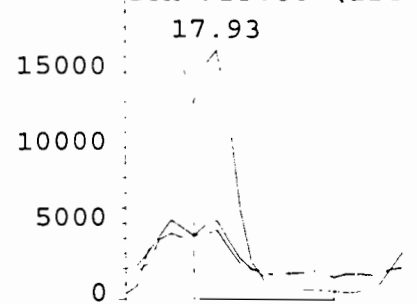
Benzo[k]fluoranthene
Concen: 3.94 ng m
RT: 17.93 min Scan# 2219
Delta R.T. -0.01 min
Lab File: C03348.D
Acq: 18 Feb 97 9:24 pm

Tgt Ion	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

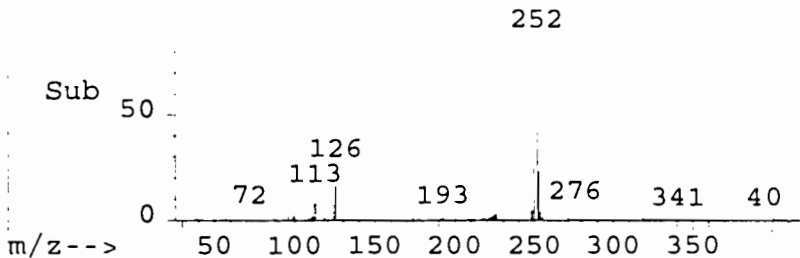
AbundanceScan 2219 (17.933 min): C03348.D (



AbundanceIon 252.00 (251
Ion 253.00 (252
Ion 125.00 (124



AbundanceScan 2219 (17.933 min): C03348.D (



Time-->17.87 18.02

Sample Name: 9702028

Misc. Info: B60214

C03348.D CLP2.M

H5972 5 UL BN392 => 0.5 ML

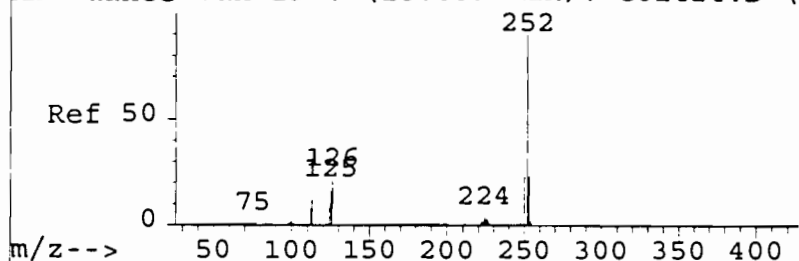
Wed Feb 19 11:40:31 1997

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AbundanceScan 1986 (18.639 min): C01424.D (



#75

Benzo[a]pyrene

Concen: 3.15 ng

RT: 18.37 min Scan# 2279

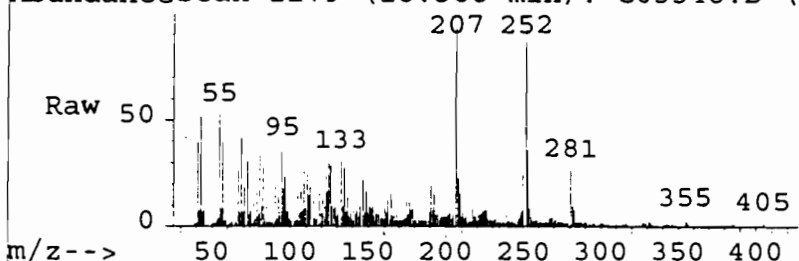
Delta R.T. -0.01 min

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

AbundanceScan 2279 (18.368 min): C03348.D (



AbundanceIon 252.00 (251

Ion 253.00 (252

Ion 125.00 (124

18.37

15000

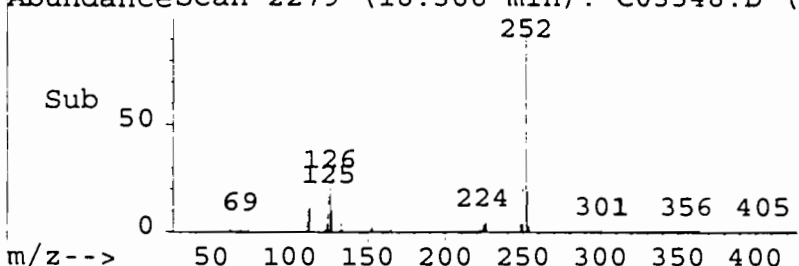
10000

5000

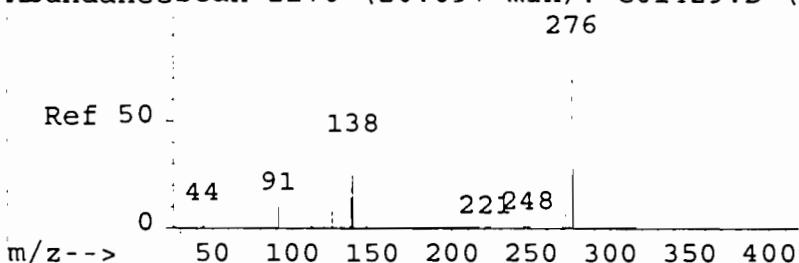
0

Time-->18.30 18.44

AbundanceScan 2279 (18.368 min): C03348.D (



AbundanceScan 2270 (20.697 min): C01429.D (



#76

Indeno[1,2,3-cd]pyrene

Concen: 2.80 ng

RT: 20.30 min Scan# 2545

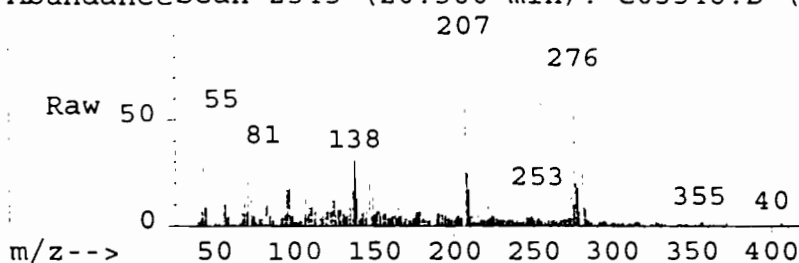
Delta R.T. -0.01 min

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

AbundanceScan 2545 (20.300 min): C03348.D (



AbundanceIon 276.00 (275

Ion 138.00 (137

20.30

8000

6000

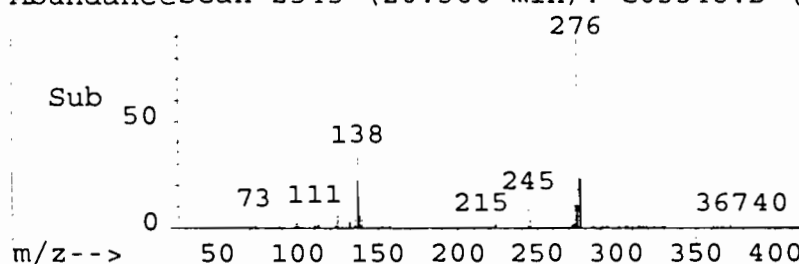
4000

2000

0

Time-->20.13 20.49

AbundanceScan 2545 (20.300 min): C03348.D (



Sample Name: 9702028

Misc. Info: B60214

C03348.D CLP2.M

H5972 5 UL BN392 => 0.5 ML

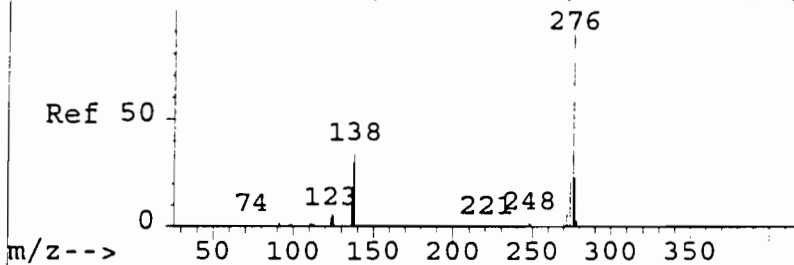
Wed Feb 19 11:40:36 1997

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AbundanceScan 2350 (21.282 min): C01424.D (



#78

Benzo[g,h,i]perylene

Concen: 3.94 ng

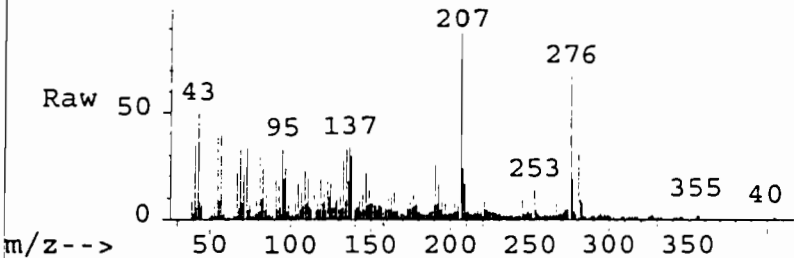
RT: 20.87 min Scan# 2623

Delta R.T. -0.01 min

Lab File: C03348.D

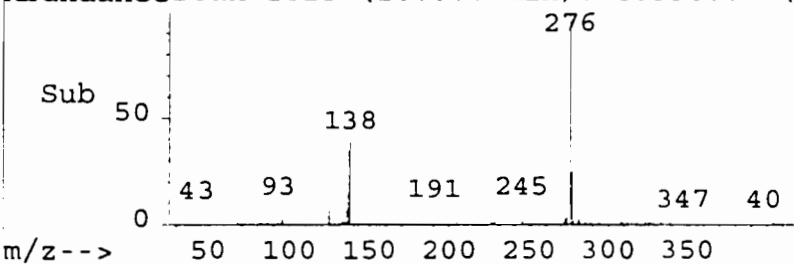
Acq: 18 Feb 97 9:24 pm

AbundanceScan 2623 (20.866 min): C03348.D (

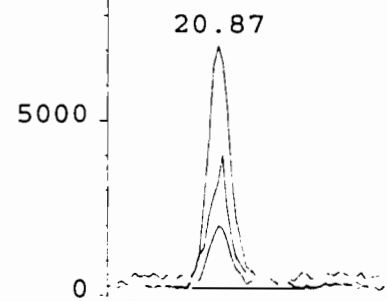


Tgt Ion:	276	Resp:	18700
Ion	Ratio	Lower	Upper
276	100		
138	42.8	33.3	49.9
277	29.9	19.3	28.9#
0	0.0	0.0	0.0

AbundanceScan 2623 (20.866 min): C03348.D (



AbundanceIon 276.00 (275
10000 Ion 138.00 (137
Ion 277.00 (276



Time-->20.69 21.05

Sample Name: 9702028

Misc. Info: B60214

C03348.D CLP2.M

H5972 5 UL BN392 => 0.5 ML

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B 0028

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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

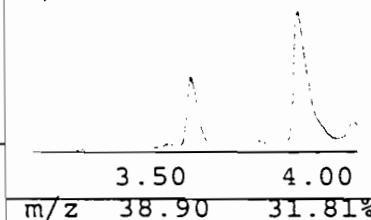
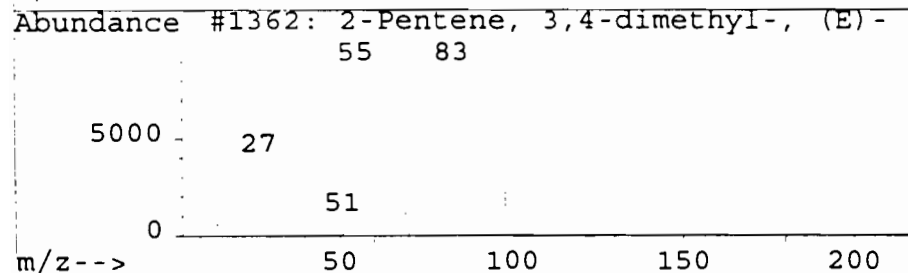
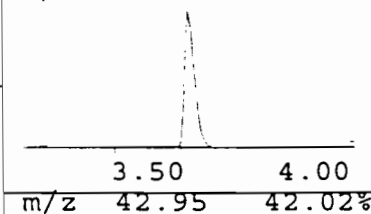
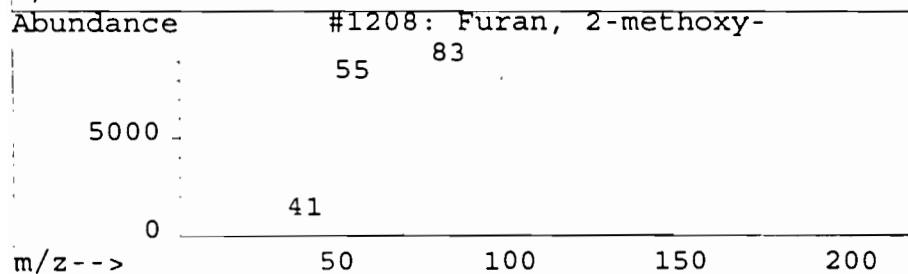
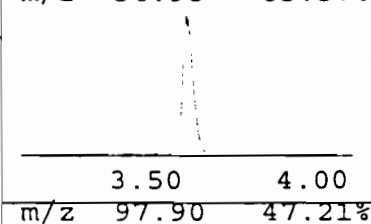
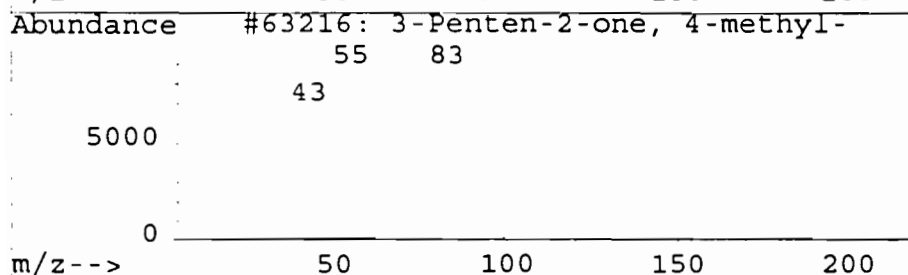
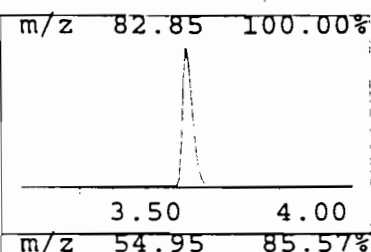
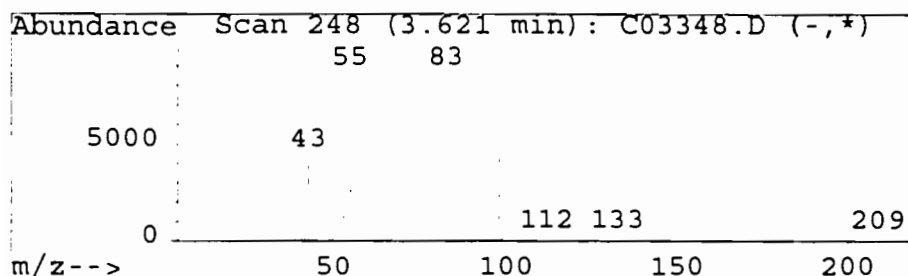
Misc : B60214 H5972 5 UL BN392 => 0.5 ML Multiplr: 1.00

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.	
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

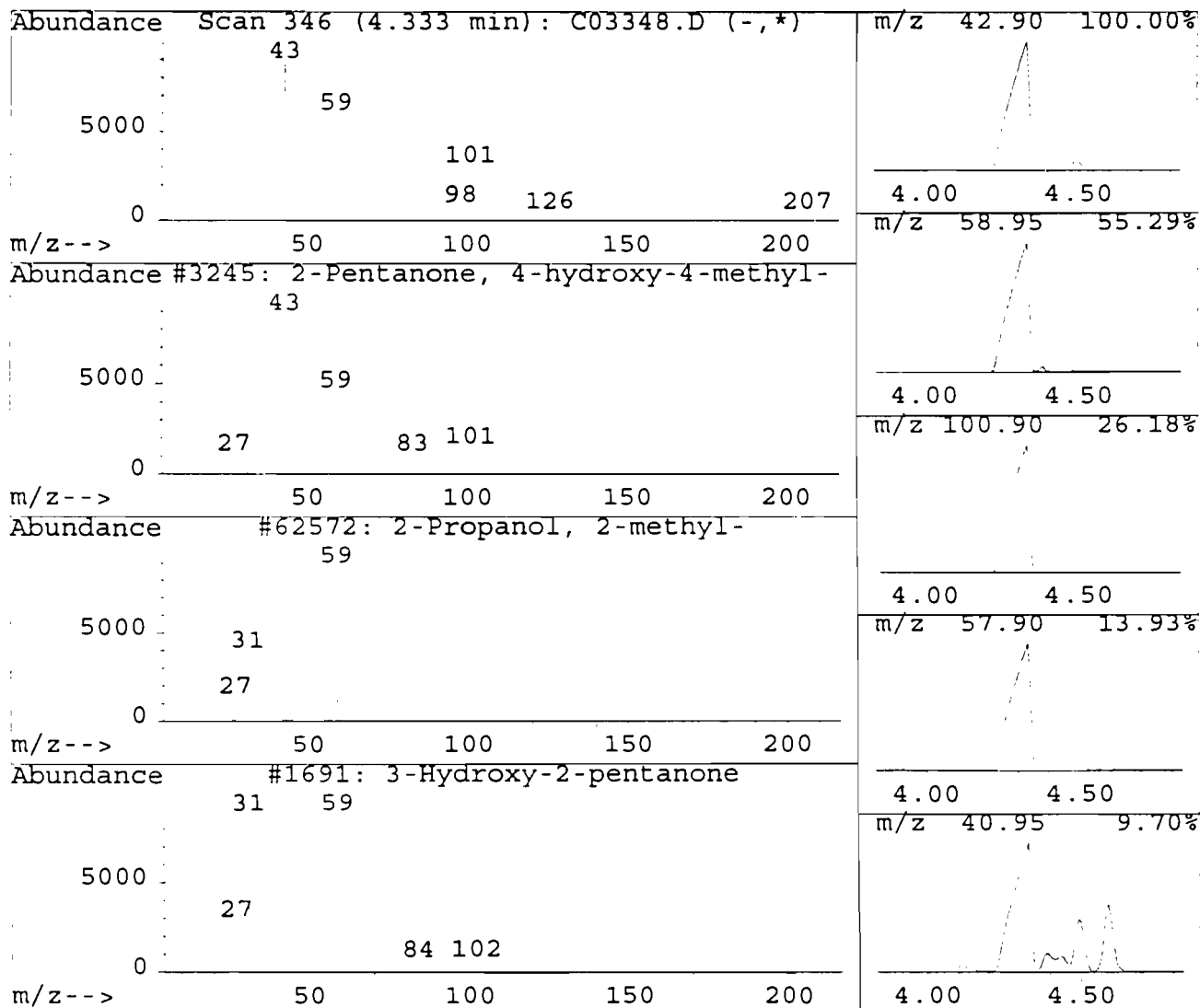
Method : C:\HPCHEM\1\METHODS\CLP2.M

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

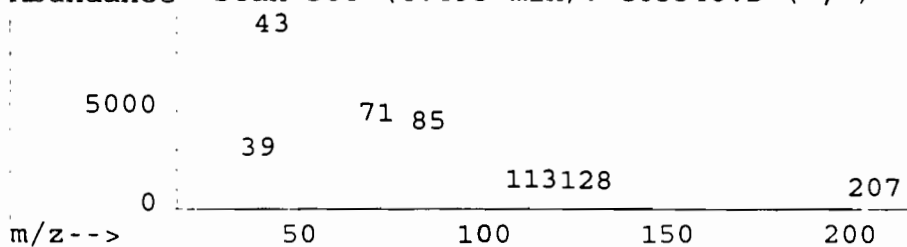
Method : C:\HPCHEM\1\METHODS\CLP2.M

Title : CLP BNA Calibration

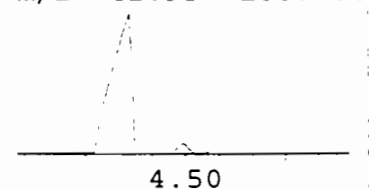
Library : C:\DATABASE\NBS75K.L

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

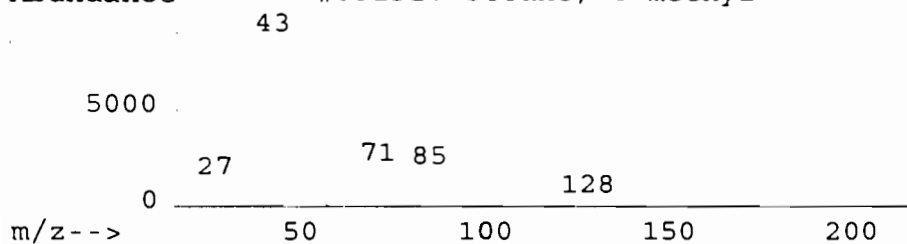
Abundance Scan 368 (4.493 min): C03348.D (-,*)



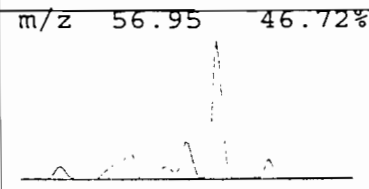
m/z 42.95 100.00%



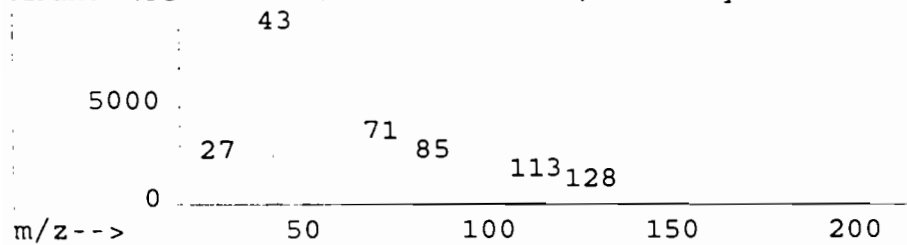
Abundance #65131: Octane, 4-methyl-



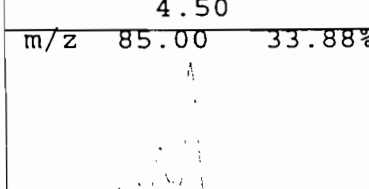
m/z 56.95 46.72%



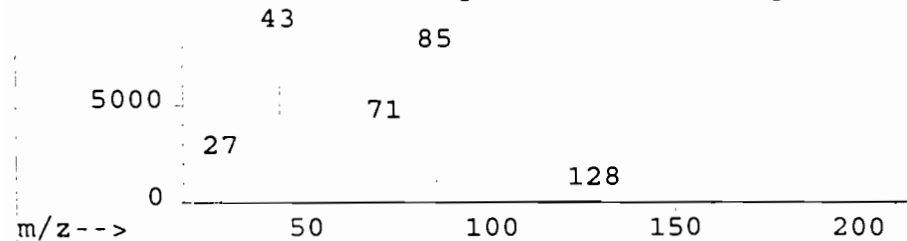
Abundance #65117: Octane, 2-methyl-



m/z 85.00 33.88%



Abundance #65121: Heptane, 2,4-dimethyl-



B 0031

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

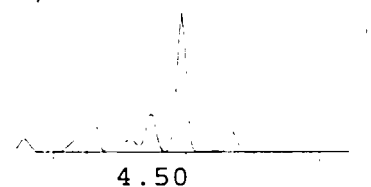
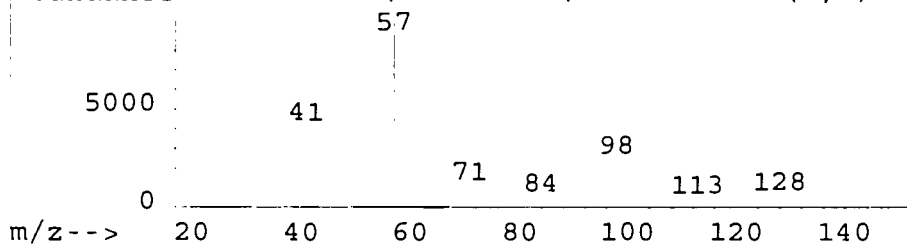
Vial: 13
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

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

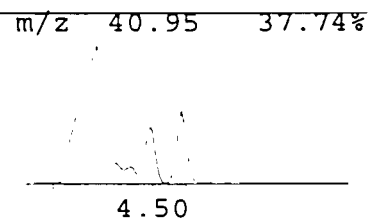
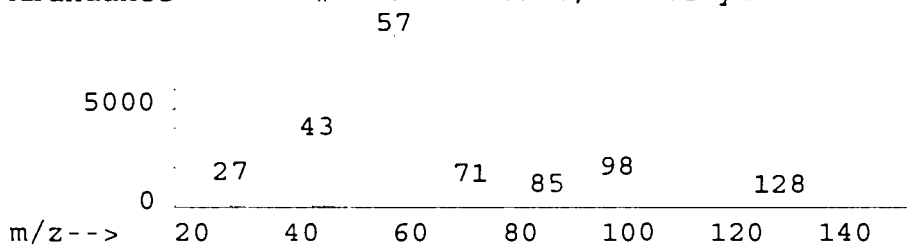
R.T.	Conc	Area	Relative to ISTD	R.T.
4.59	46.51 ng	1645235	1,4-Dichlorobenzene-d4	6.28

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

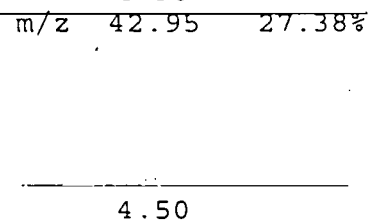
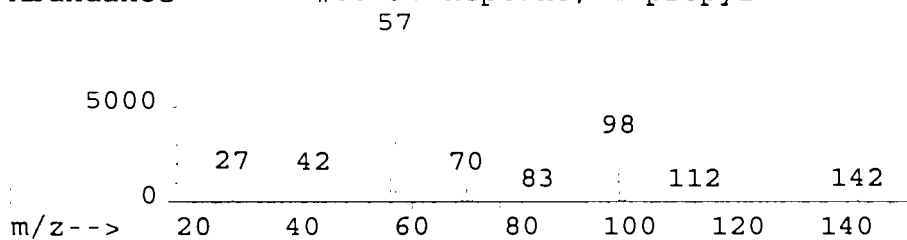
Abundance Scan 381 (4.587 min): C03348.D (-,*) m/z 56.95 100.00%



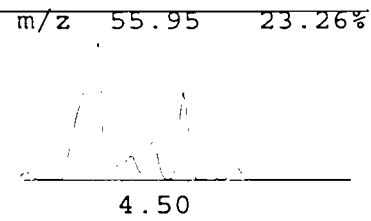
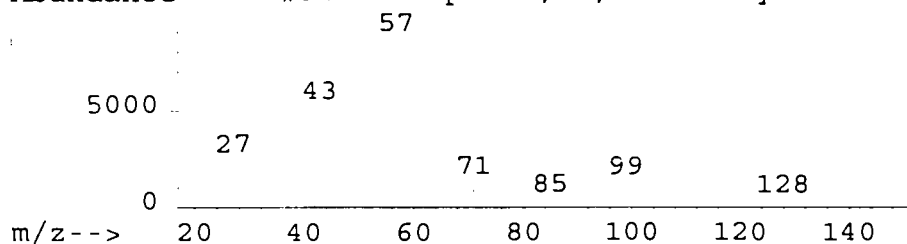
Abundance #65130: Octane, 3-methyl-



Abundance #8079: Heptane, 4-propyl-



Abundance #5143: Heptane, 2,5-dimethyl-



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

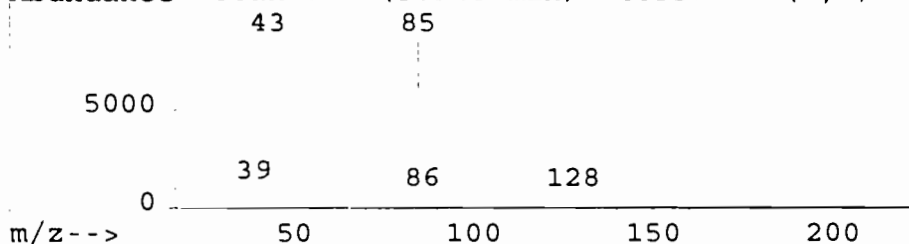
Method : C:\HPCHEM\1\METHODS\CLP2.M

Title : CLP BNA Calibration

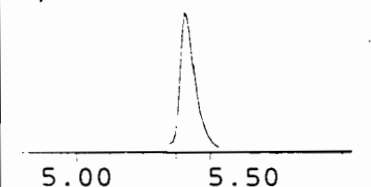
Library : C:\DATABASE\NBS75K.L

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

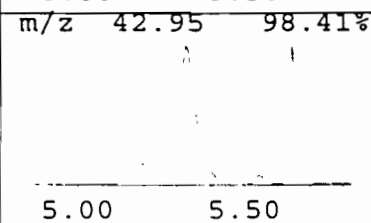
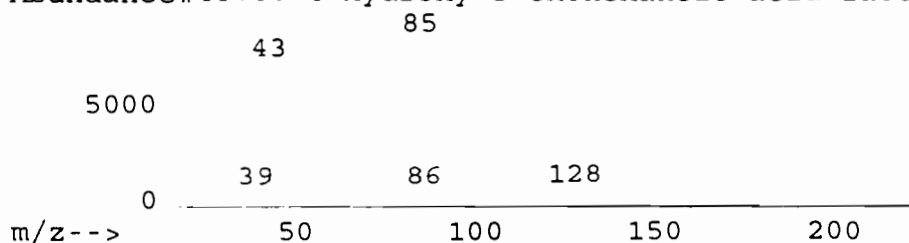
Abundance Scan 483 (5.328 min): C03348.D (-,*)



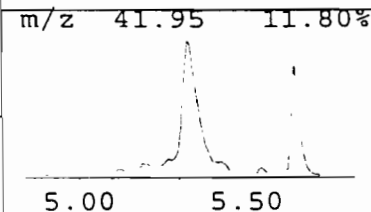
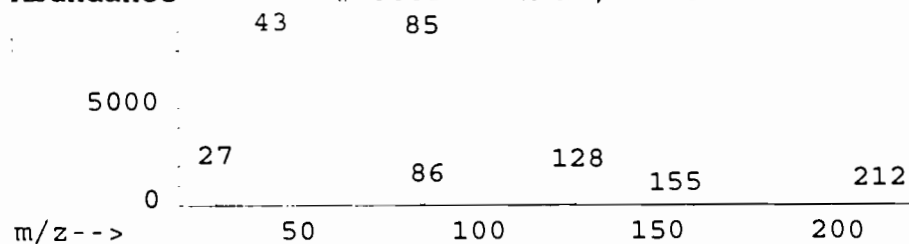
m/z 84.85 100.00%



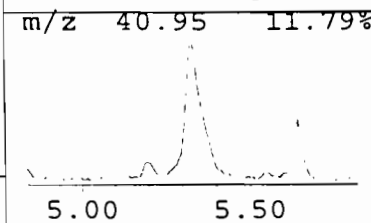
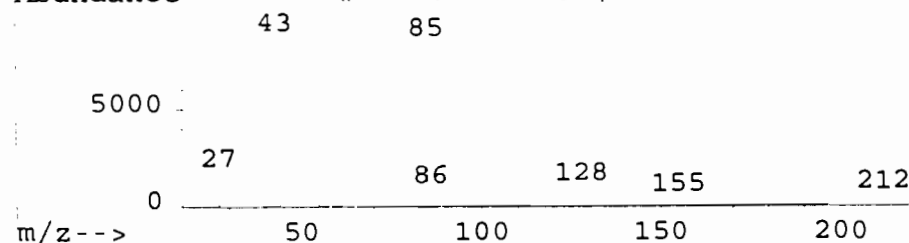
Abundance#4870: 4-Hydroxy-5-oxohexanoic acid lact



Abundance #25665: Hexane, 3-iodo-



Abundance #25663: Hexane, 2-iodo-



B 0033

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

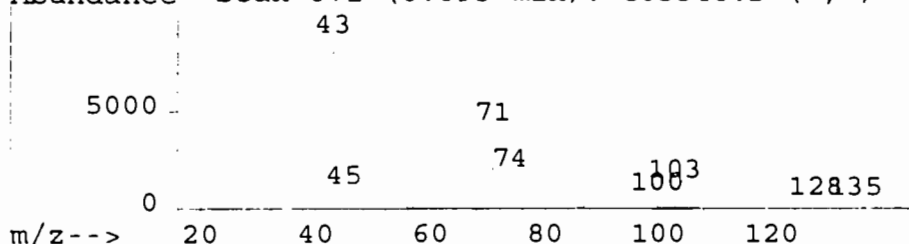
Vial: 13
Operator: ANNMARIE
Inst : 5972 - GC
Multiplr: 1.00

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

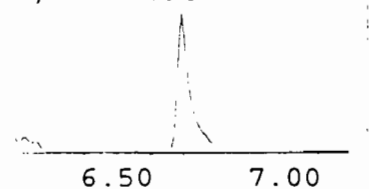
R.T.	Conc	Area	Relative to ISTD	R.T.
6.69	19.34 ng	683907	1,4-Dichlorobenzene-d4	6.28

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

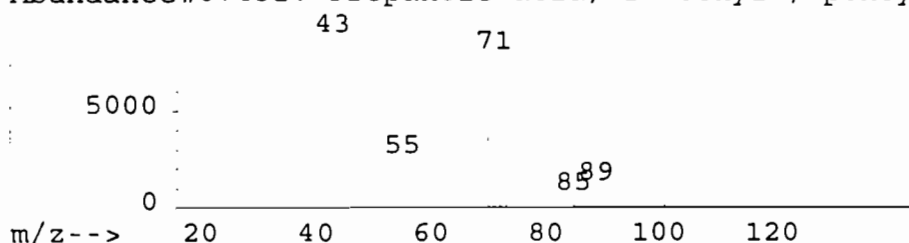
Abundance Scan 671 (6.693 min): C03348.D (-,*)



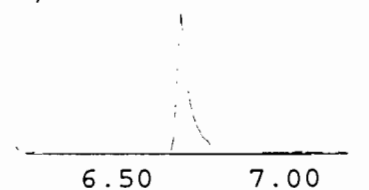
m/z 42.95 100.00%



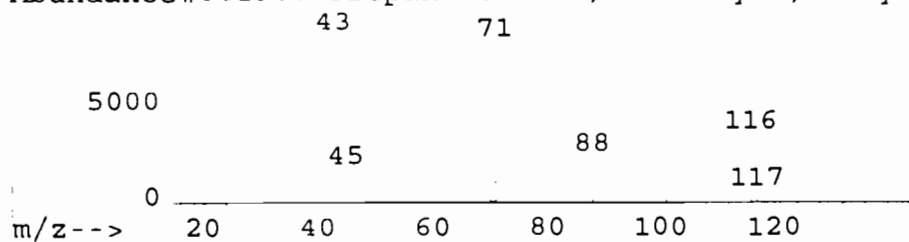
Abundance#67432: Propanoic acid, 2-methyl-, pentyl



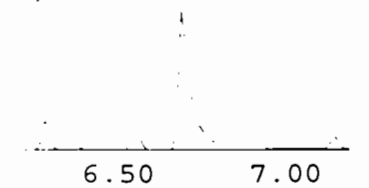
m/z 70.85 38.55%



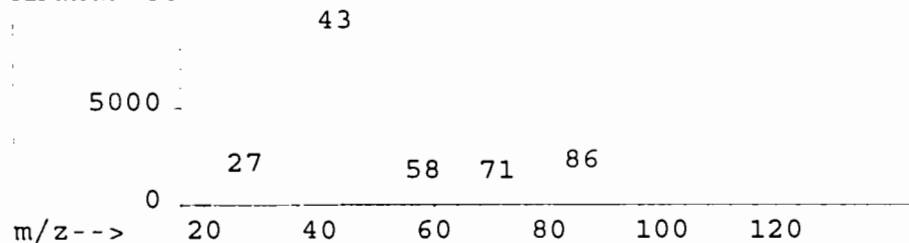
Abundance#64290: Propanoic acid, 2-methyl-, ethyl



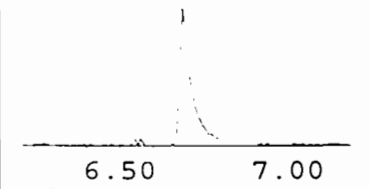
m/z 73.90 14.78%



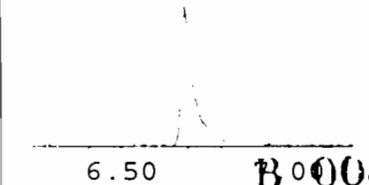
Abundance #706: 2-Pentanone



m/z 85.90 13.73%



m/z 102.95 9.13%



B00034

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-methylpropyl)	258	C14H26O4	038447-22-2	38

Abundance Scan 1969 (16.117 min): C03348.D (-,*)						m/z 128.85	100.00%
129							
5000	57	112	157	241	259	313	356
0						40	
m/z-->	50	100	150	200	250	300	350
Abundance#73987: Hexanedioic acid, bis(2-ethylhexyl)						15.76	16.48
129						m/z 56.95	38.05%
5000	57	70					
0				241			
m/z-->	50	100	150	200	250	300	350
Abundance#35514: Hexanedioic acid, mono(2-ethylhexyl)						15.76	16.48
129						m/z 54.95	30.11%
5000	70						
0				241	259		
m/z-->	50	100	150	200	250	300	350
Abundance#35514: Hexanedioic acid, mono(2-ethylhexyl)						15.76	16.48
129						m/z 111.90	24.59%
5000	70						
0				241	259		
m/z-->	50	100	150	200	250	300	350
Abundance#51386: Hexanedioic acid, dioctyl ester						15.76	16.48
129						m/z 40.95	21.46%
5000	57	70					
0				241	259	370	
m/z-->	50	100	150	200	250	300	350

B 0035

H2M LABS, INC.

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	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.

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.

FORM VI SV-2

B 0038

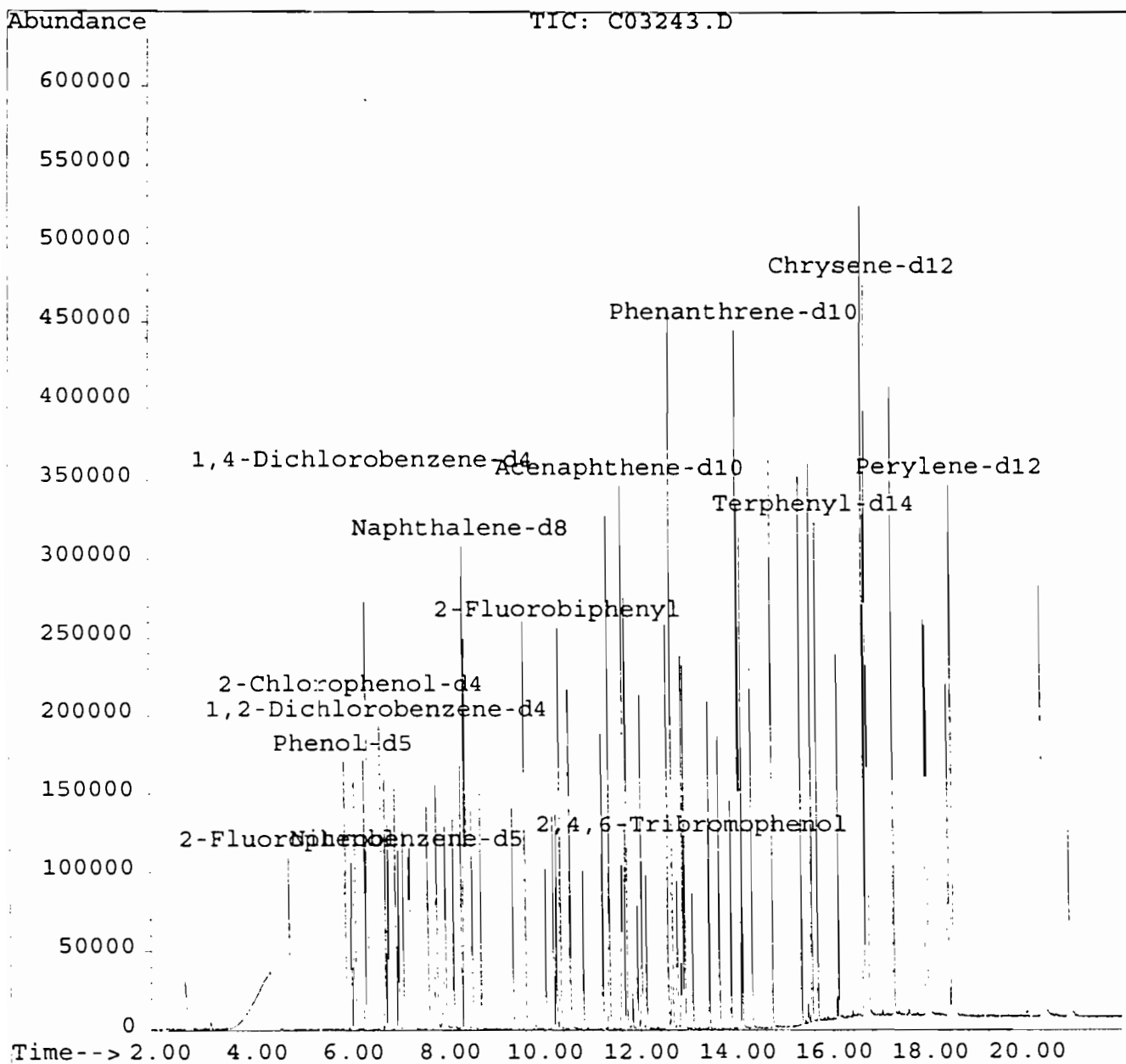
3/90

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
 Acq On : 10 Feb 97 12:18
 Sample : SST020
 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

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

C03243.D CLP2.M

Wed Feb 19 11:41:01 1997

H5890C

Page 1

B-0040

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03243.D
Acq On : 10 Feb 97 12:18
Sample : SST020
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-00411

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

C03243.D CLP2.M

Wed Feb 19 11:41:06 1997

H5890C

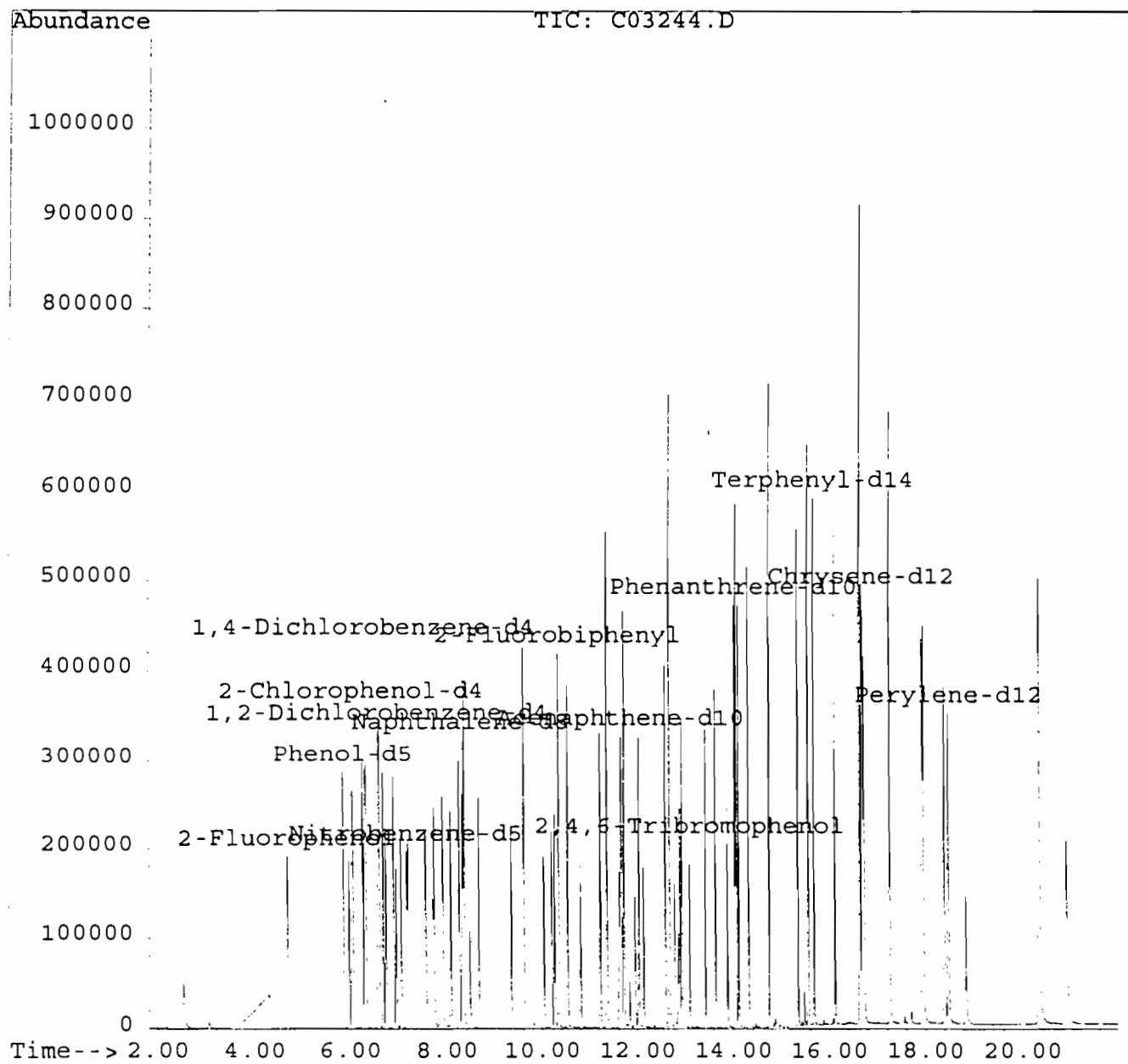
Page 2

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
 Acq On : 10 Feb 97 13:25
 Sample : SST050
 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

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

C03244.D CLP2.M Wed Feb 19 11:41:38 1997 H5890C

B 0043

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03244.D
 Acq On : 10 Feb 97 13:25
 Sample : SST050
 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

2/16/97

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

C03244.D CLP2.M

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H5890C

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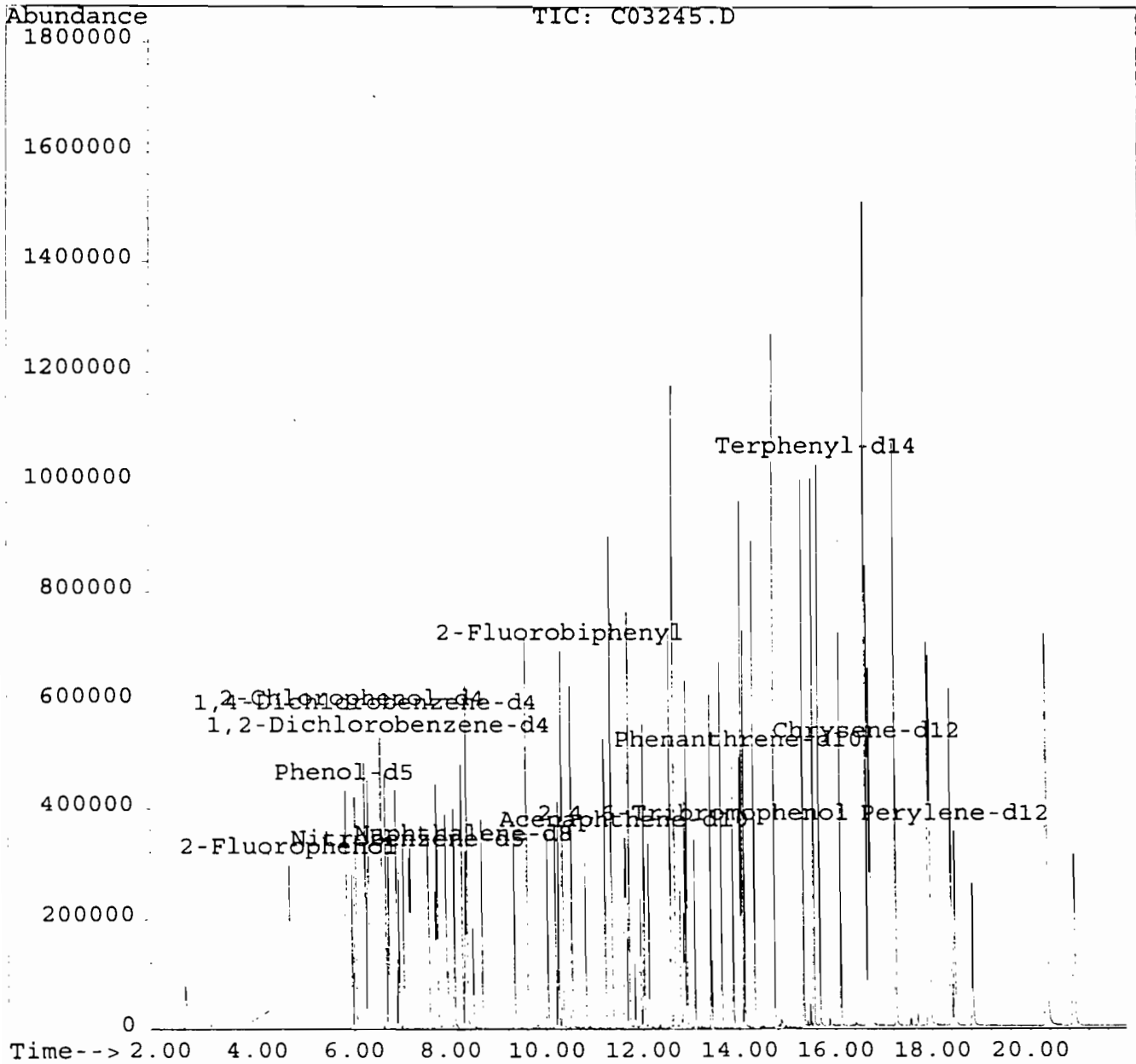
B-0041

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

C03245.D CLP2.M Wed Feb 19 11:42:08 1997 H5890C

B 0046
 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C03245.D
 Acq On : 10 Feb 97 13:56
 Sample : SST080
 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

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

C03245.D CLP2.M

Wed Feb 19 11:42:13 1997

H5890C

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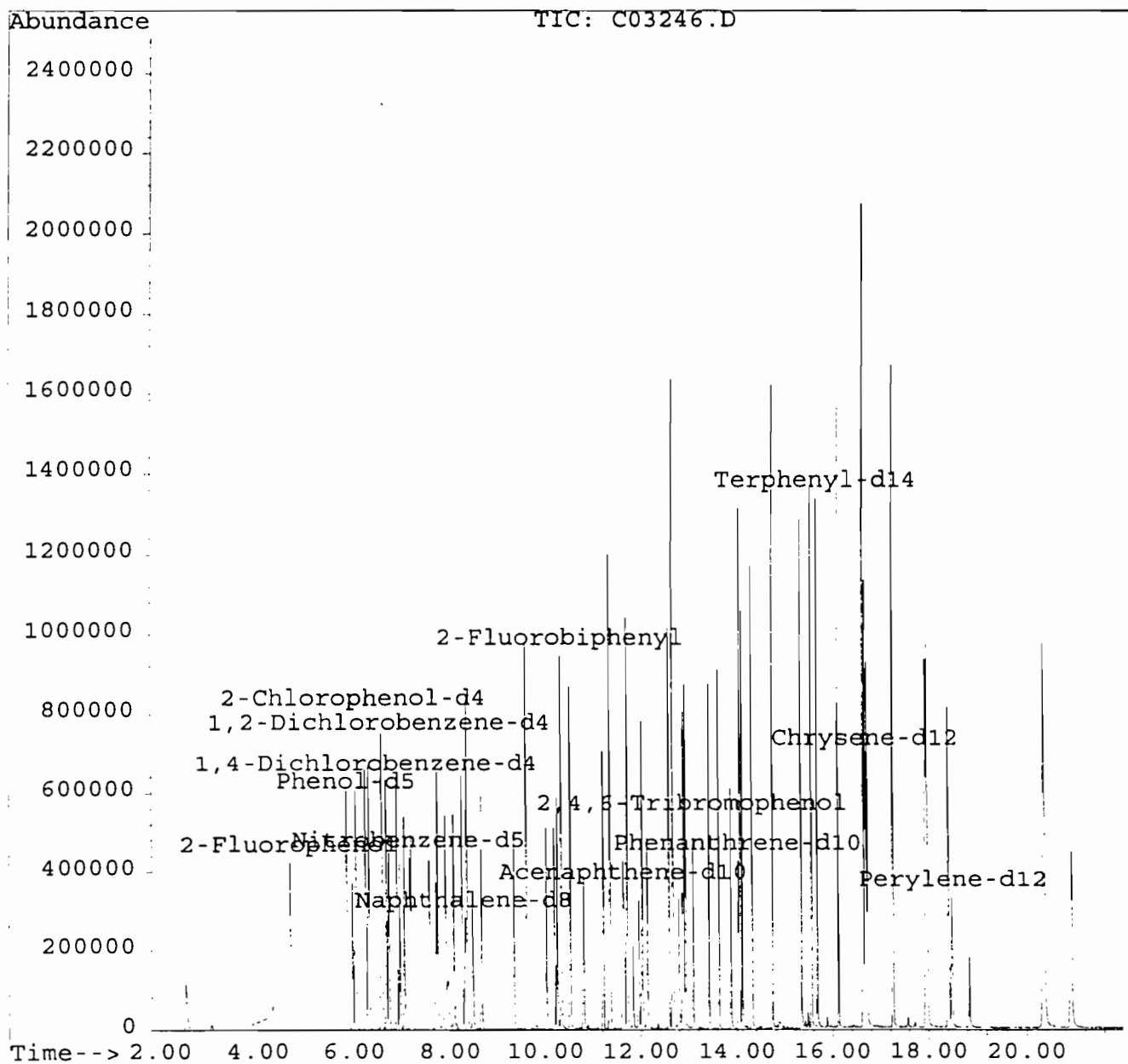
B-0047

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

C03246.D CLP2.M Wed Feb 19 11:42:38 1997 H5890C

Page 1

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

B-0050

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

C03246.D CLP2.M

Wed Feb 19 11:42:43 1997

H5890C

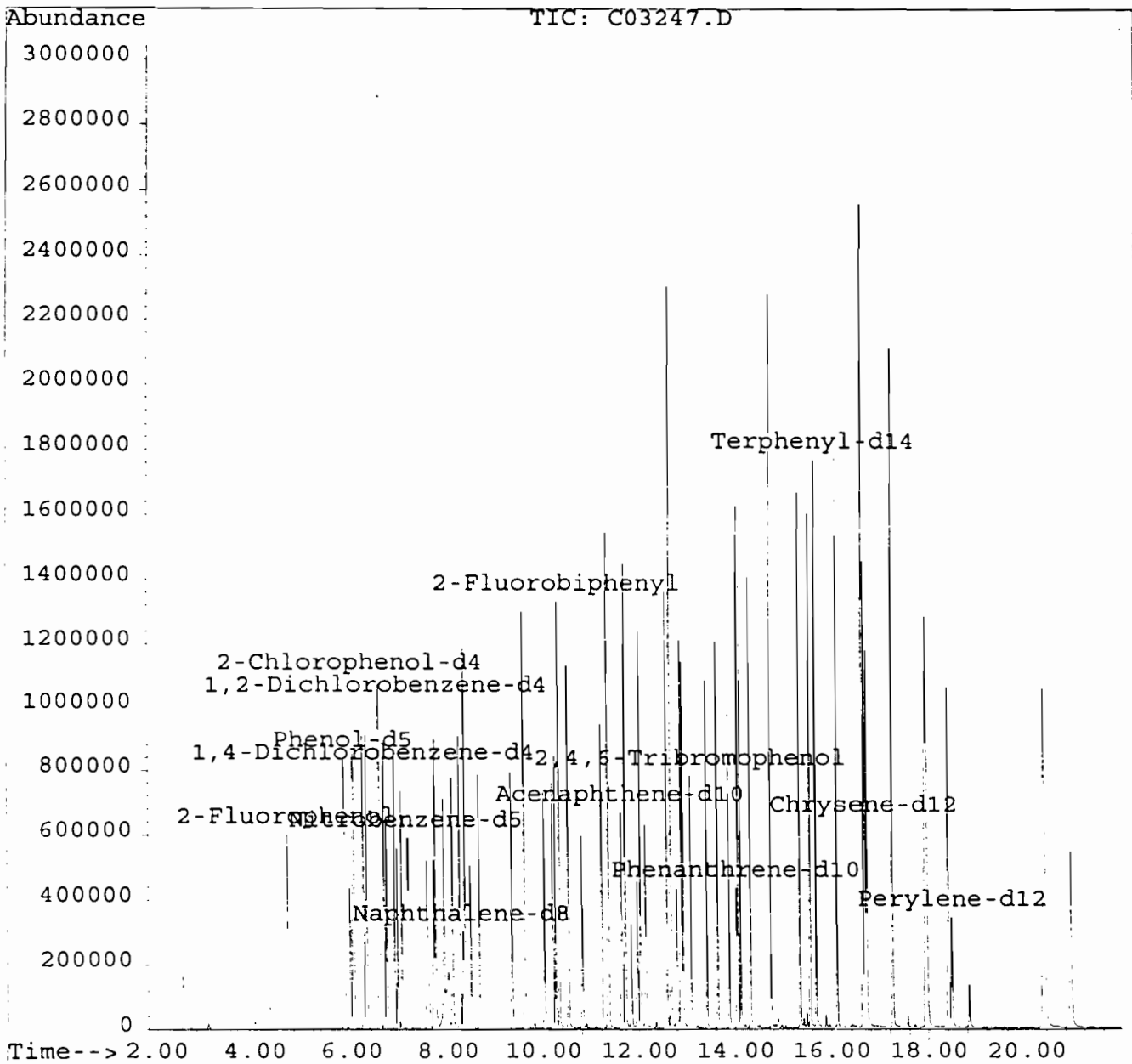
Page 2

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
 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

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

C03247.D CLP2.M Wed Feb 19 11:43:11 1997 H5890C

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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

C03247.D CLP2.M

Wed Feb 19 11:43:27 1997

H5890C

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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

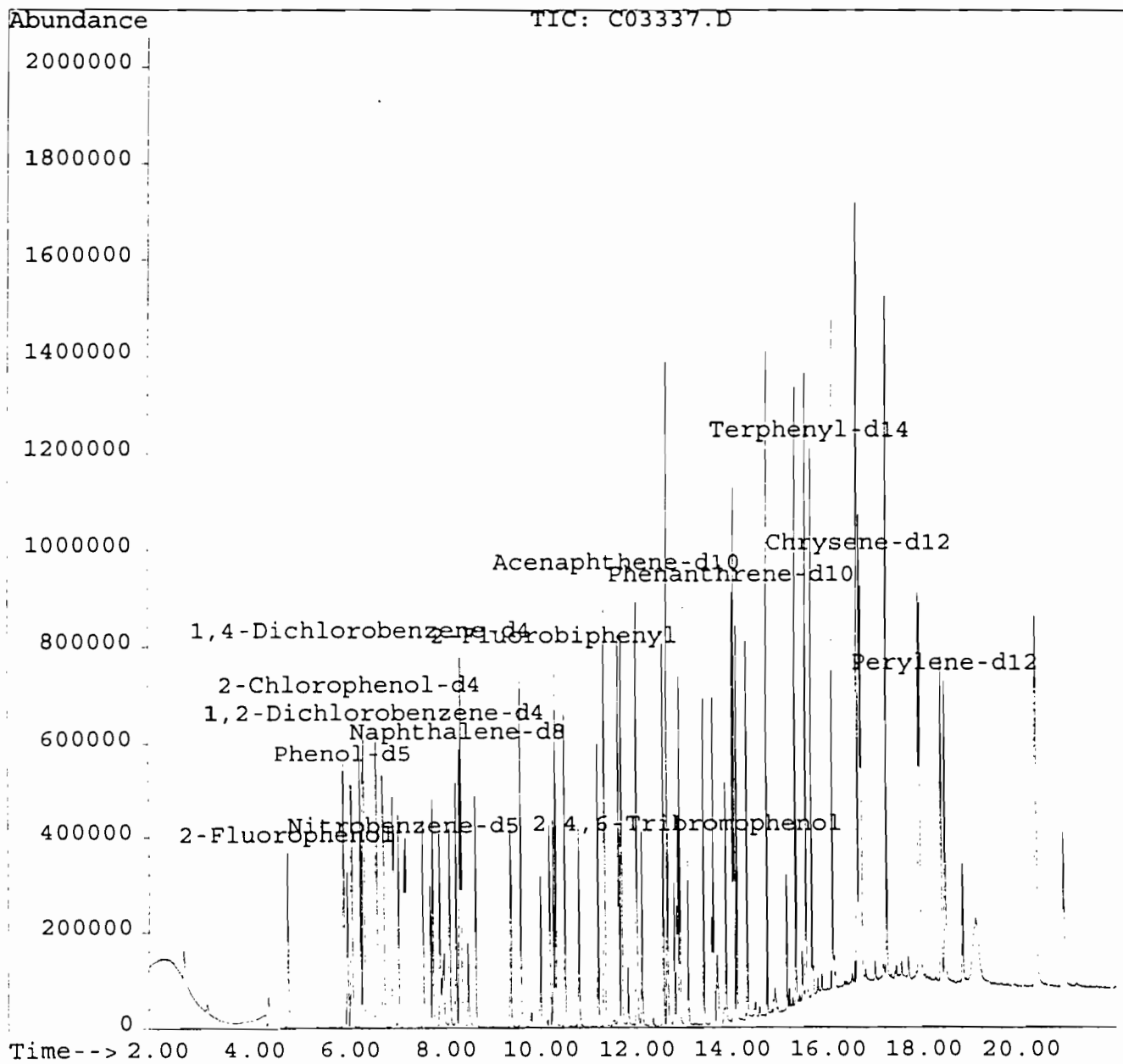
All other compounds must meet a minimum RRF of 0.010.

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 : SST050
 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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

B-0058

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

H2M LABS, INC.

IV. RAW QC DATA PACKAGE FOR SEMIVOLATILES

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

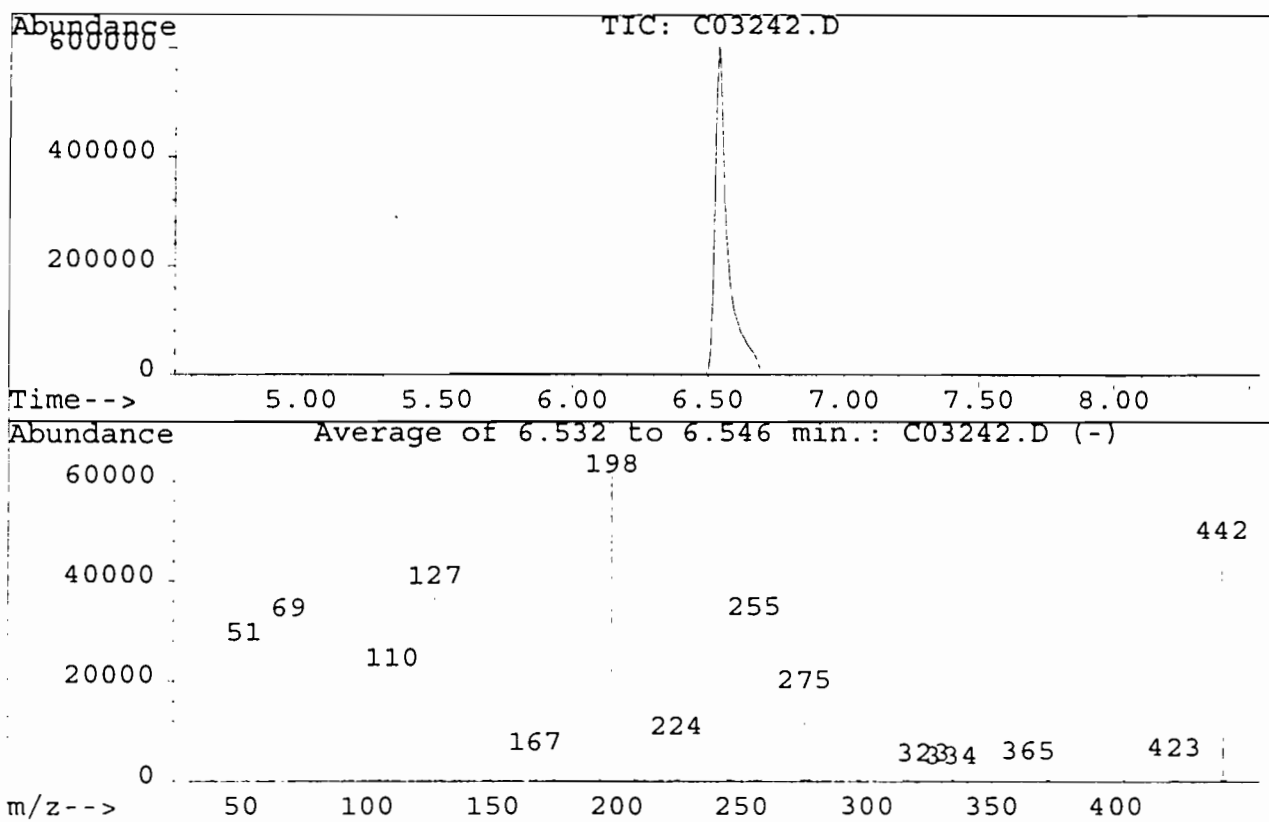
B 0059

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

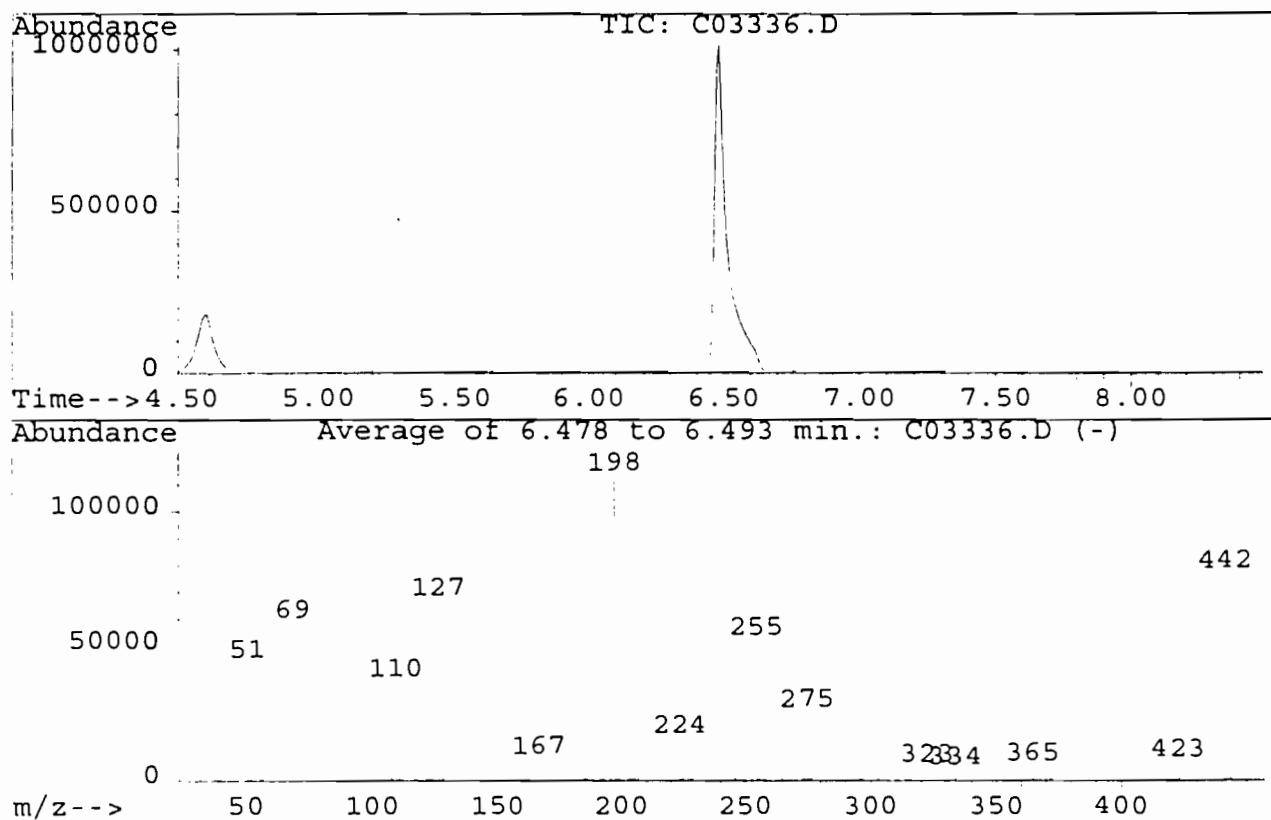
B-0060

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

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:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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:

CONCENTRATION UNITS:

CAS NO. COMPOUND (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
TENTATIVELY IDENTIFIED COMPOUNDS

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:

CONCENTRATION UNITS:

Number TICs found: 84 (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

@ 2/19/97

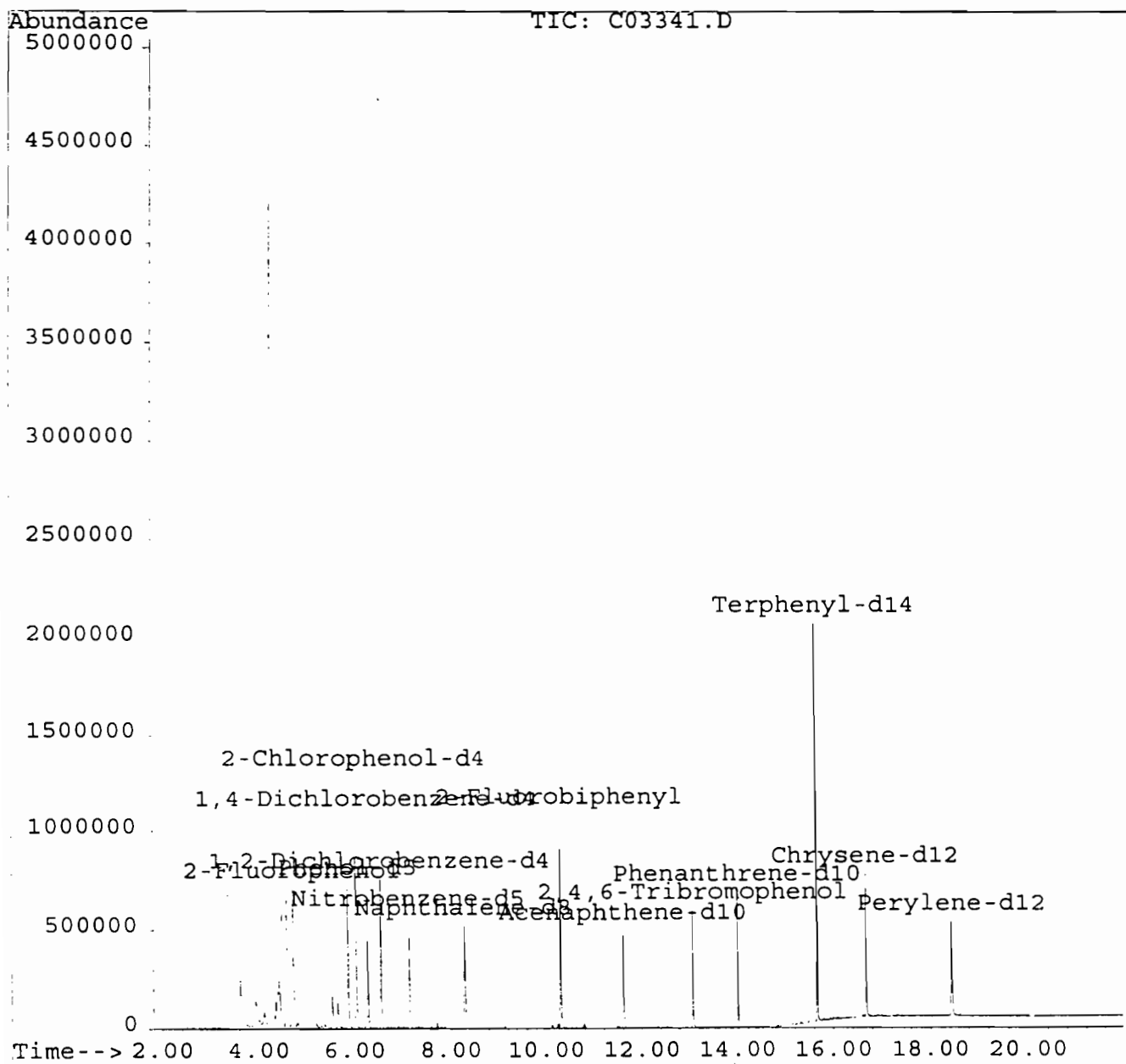
B 0064

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

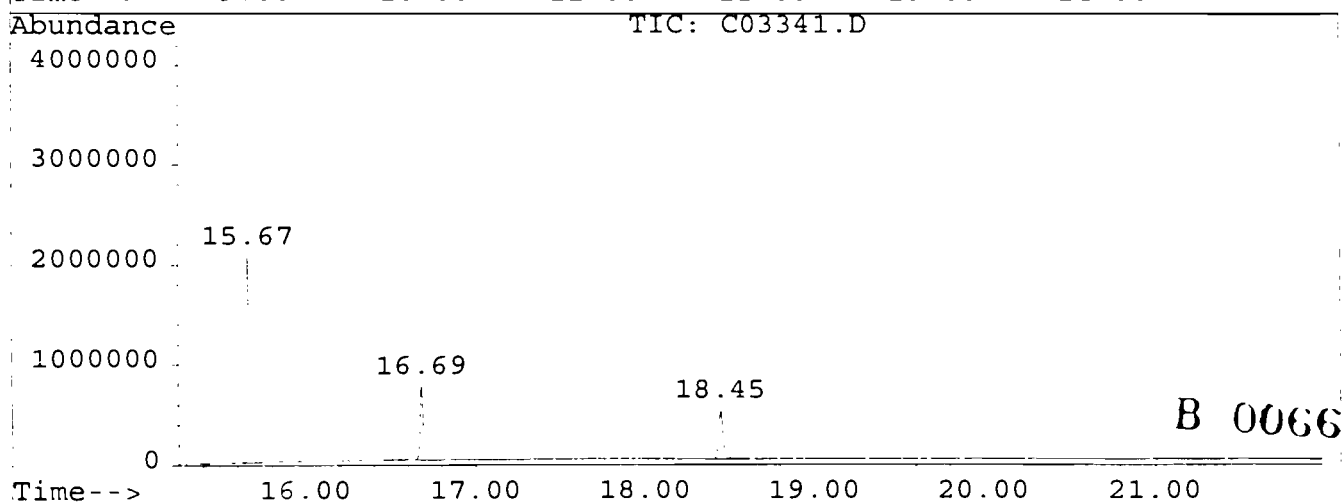
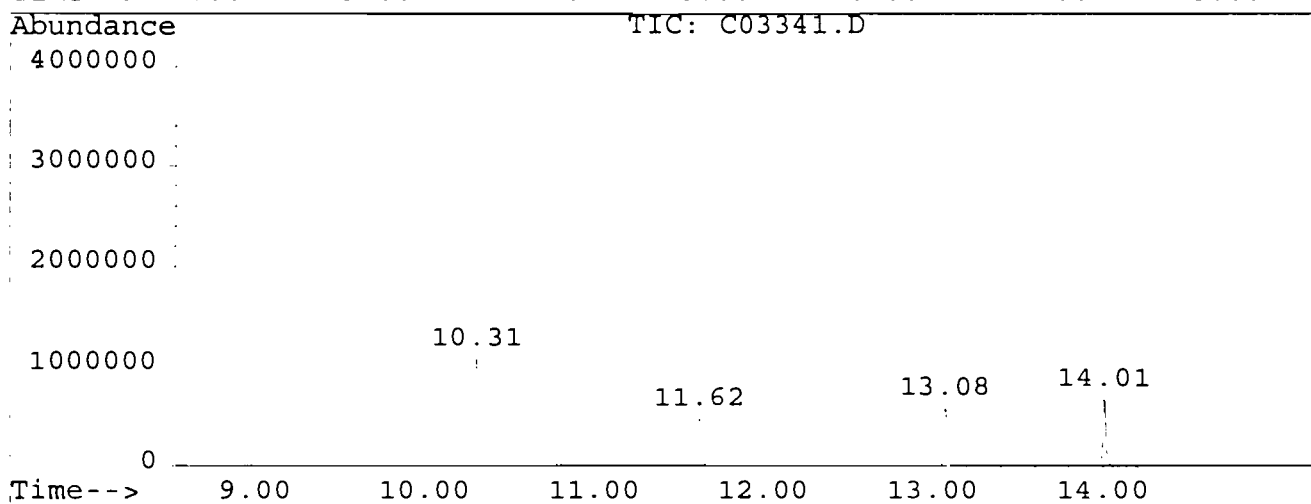
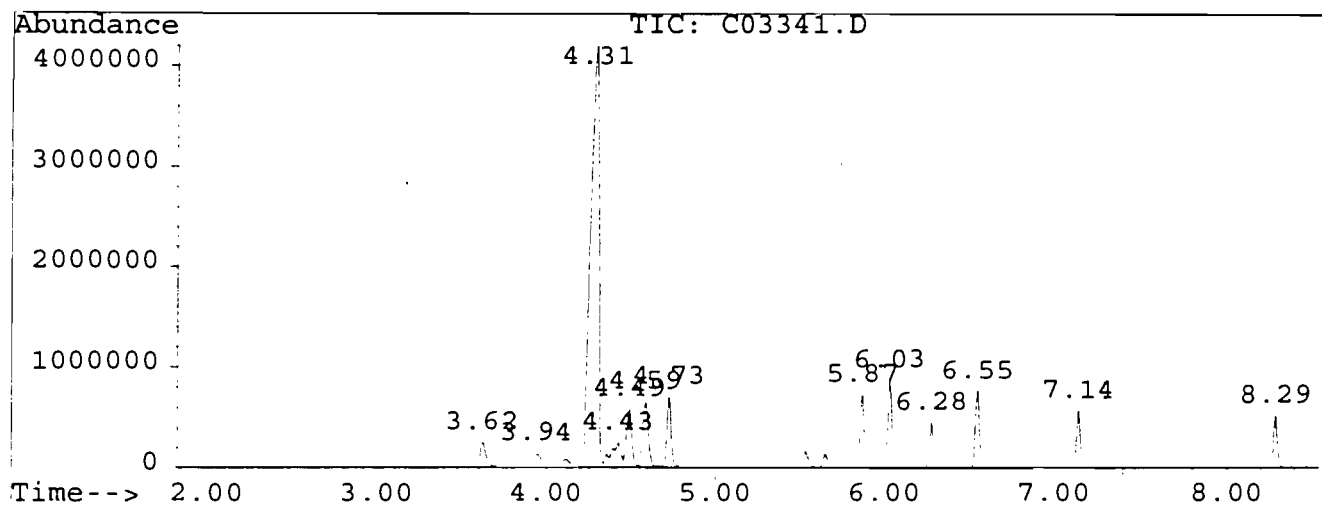
Vial: 6
 Operator: ANNMARIE
 Inst : 5972 - GC
 Multiplr: 1.00

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
Acq On : 18 Feb 97 17:43
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\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

C03341.D CLP2.M

Wed Feb 19 11:37:28 1997

H5890C

Page 1

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

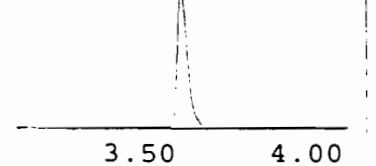
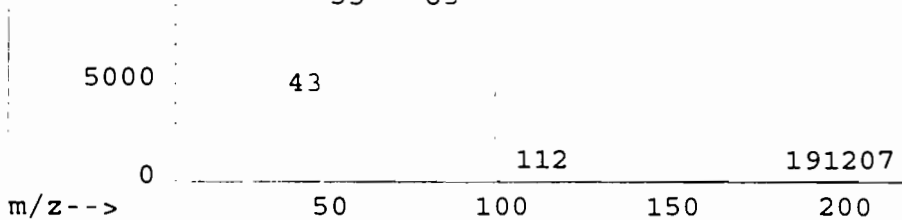
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Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

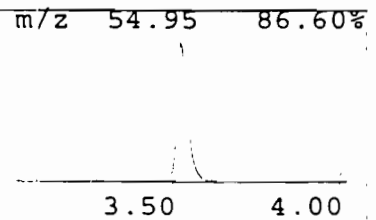
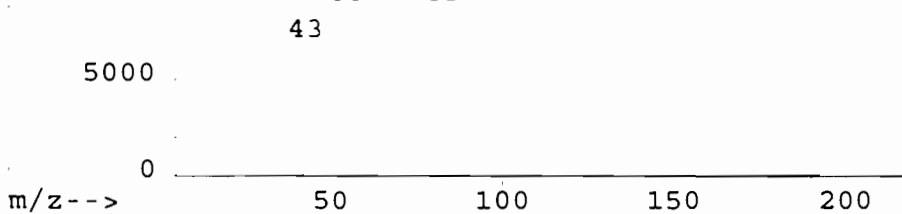
Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

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

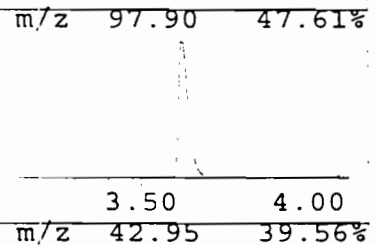
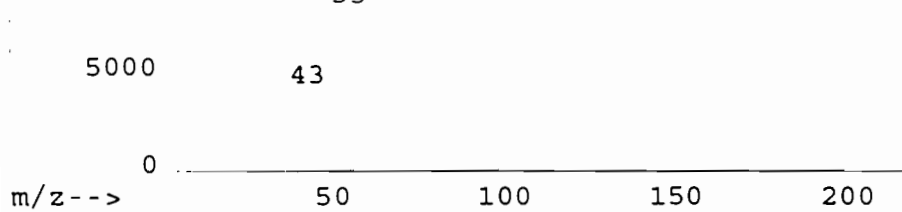
Abundance Scan 248 (3.622 min): C03341.D (-,*) m/z 82.85 100.00%



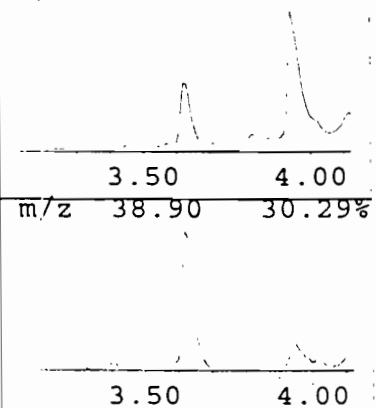
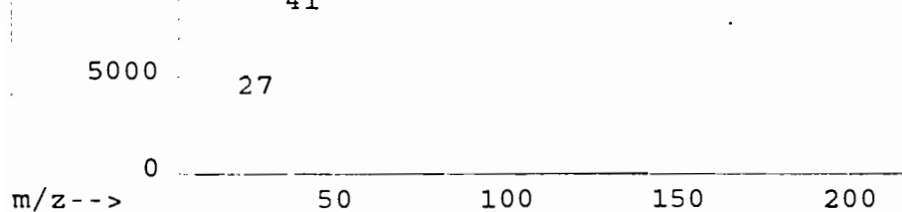
Abundance #63216: 3-Penten-2-one, 4-methyl- m/z 54.95 86.60%



Abundance #3236: 4-Hydroxy-4-methylpentanone m/z 42.95 39.56%



Abundance #1323: 2-Pentene, 2,3-dimethyl- m/z 38.90 30.29%



B 0069

Library Search Compound Report

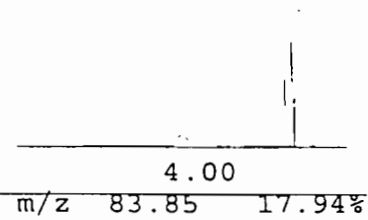
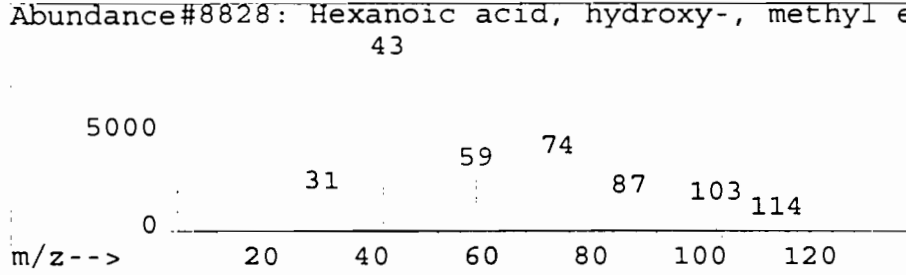
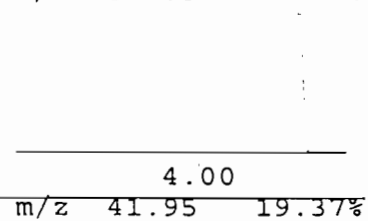
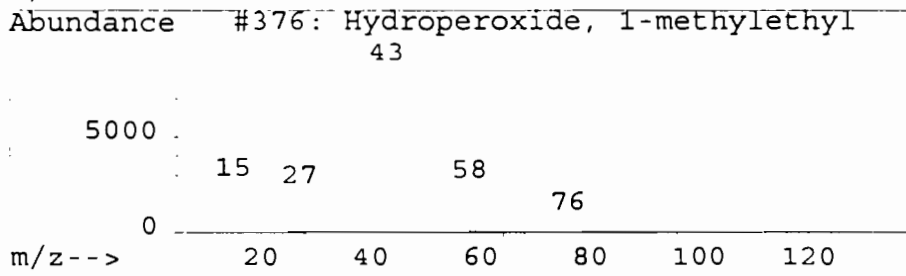
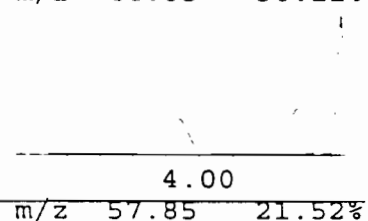
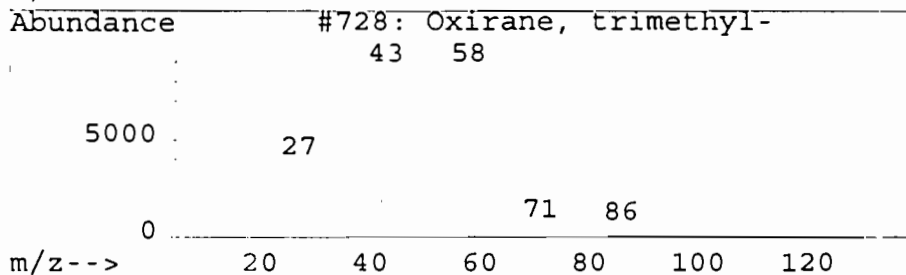
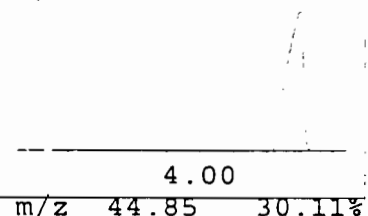
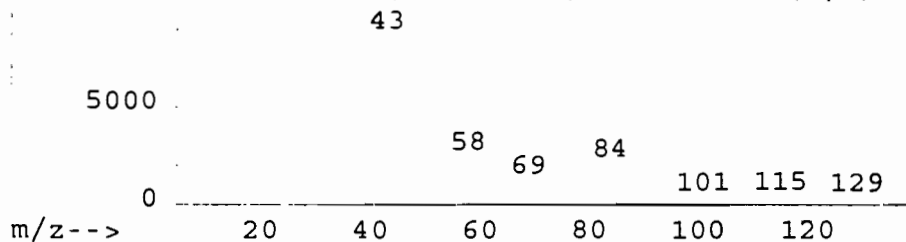
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

Abundance Scan 292 (3.942 min): C03341.D (-,*) m/z 42.95 100.00%



B 0070

Library Search Compound Report

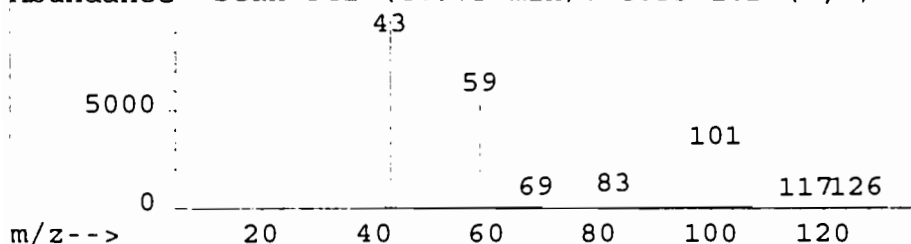
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

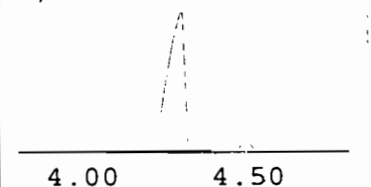
Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

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

Abundance Scan 342 (4.305 min): C03341.D (-,*)

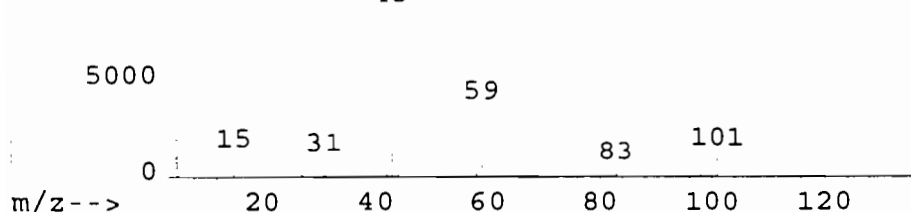


m/z 42.95 100.00%



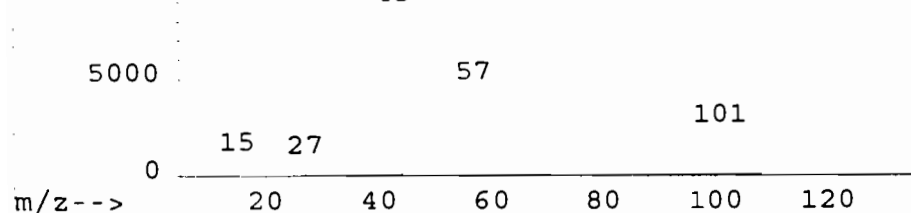
m/z 58.95 53.27%

Abundance#64275: 2-Pentanone, 4-hydroxy-4-methyl-



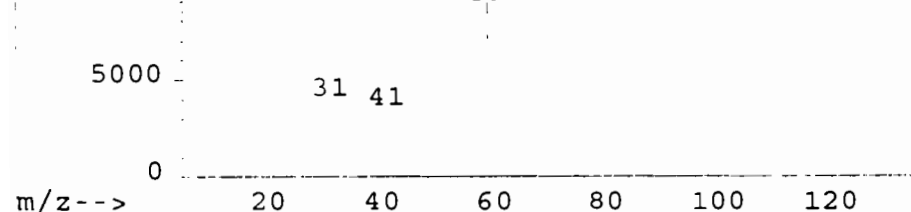
m/z 100.90 26.03%

Abundance#3292: Acetic acid, 1,1-dimethylethyl es



m/z 57.90 14.68%

Abundance#62572: 2-Propanol, 2-methyl-



m/z 40.95 9.02%

Library Search Compound Report

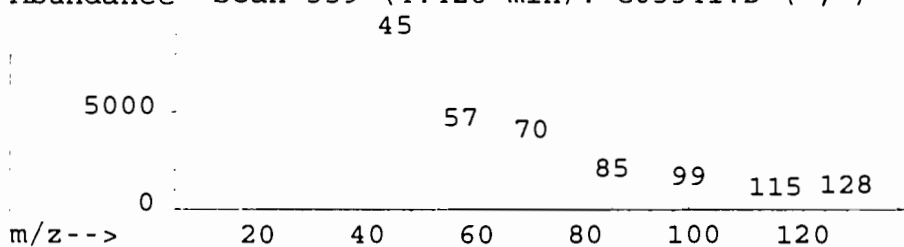
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

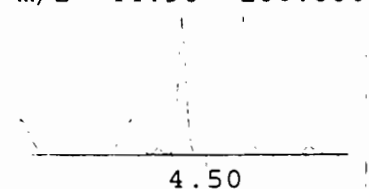
Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

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

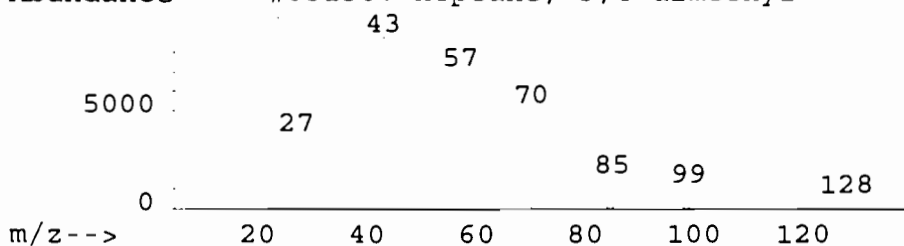
Abundance Scan 359 (4.428 min): C03341.D (-,*)



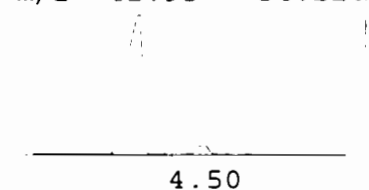
m/z 44.90 100.00%



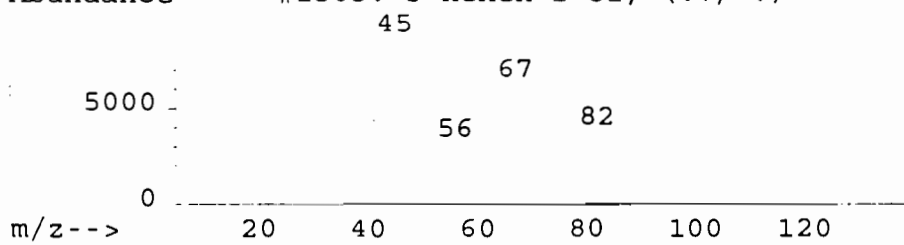
Abundance #65136: Heptane, 3,4-dimethyl-



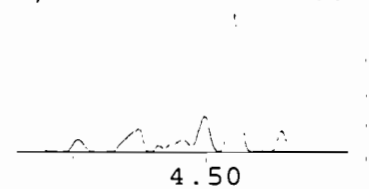
m/z 42.95 54.21%



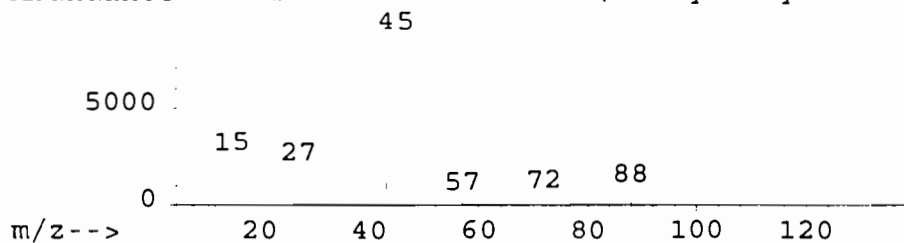
Abundance #1505: 5-Hexen-2-ol, (.+/-.)-



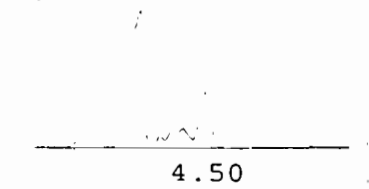
m/z 56.95 36.35%



Abundance #62900: 2-Butanone, 3-hydroxy-



m/z 69.90 30.36%



B 0072

Library Search Compound Report

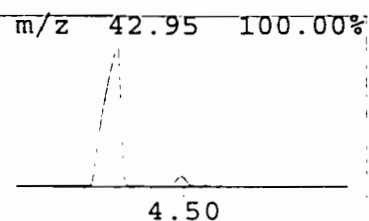
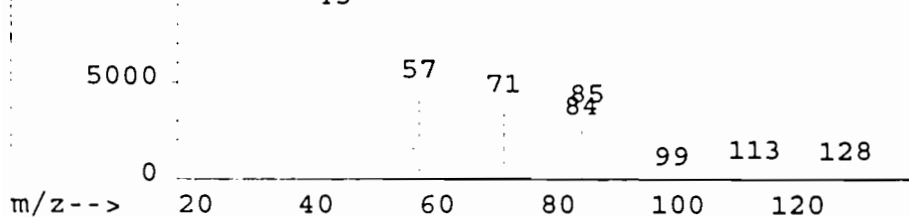
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

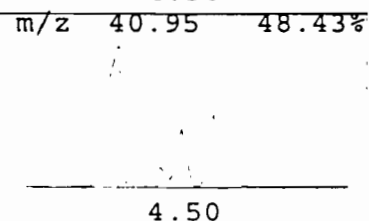
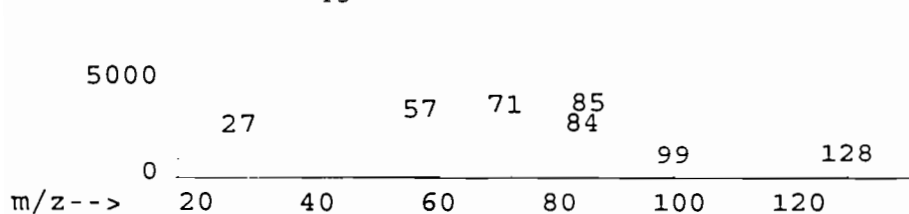
Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

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

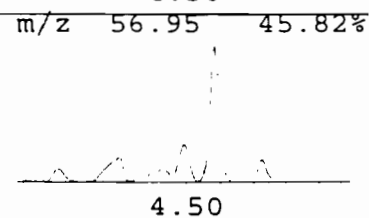
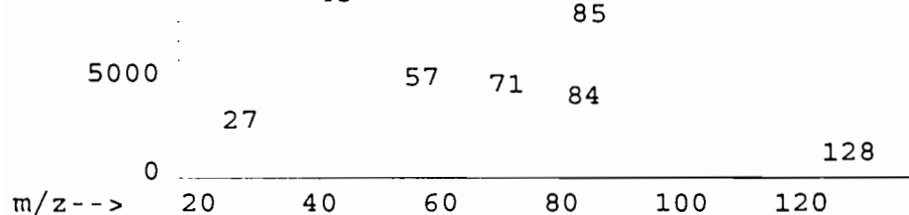
Abundance Scan 368 (4.494 min): C03341.D (-,*)



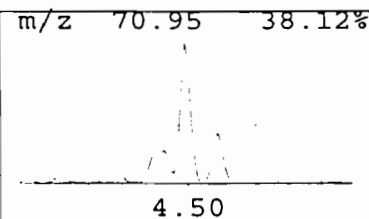
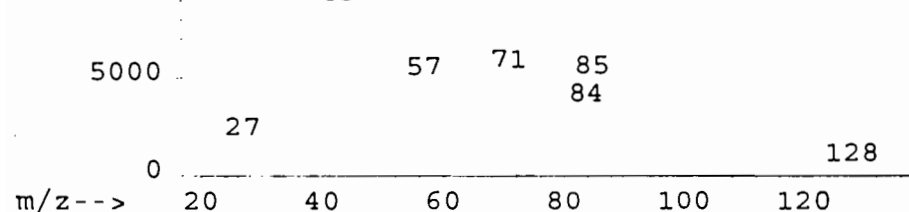
Abundance #65132: Octane, 4-methyl-



Abundance #65121: Heptane, 2,4-dimethyl-



Abundance #5147: Hexane, 2,3,4-trimethyl-



B 0073

Library Search Compound Report

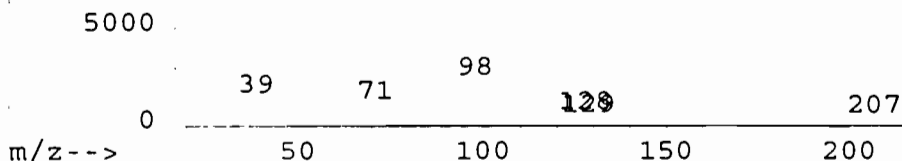
Data File : C:\HPCHEM\1\DATA\C03341.D
Acq On : 18 Feb 97 17:43
Sample : SBLK(1/24)
Misc : H5972 5 UL BN392 => 0.5 ML

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

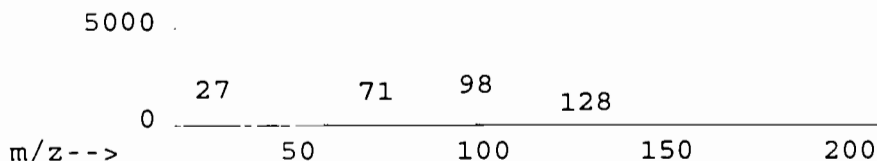
Method : C:\HPCHEM\1\METHODS\CLP2.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

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

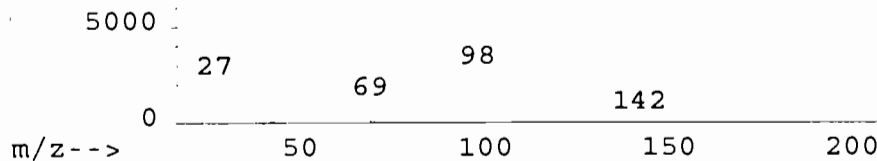
Abundance Scan 381 (4.588 min): C03341.D (-,*)
57 m/z 56.95 100.00%



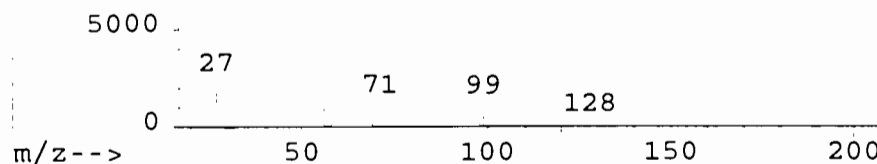
Abundance #65130: Octane, 3-methyl-
57



Abundance #8084: Heptane, 4-(1-methylethyl)-
57



Abundance #5143: Heptane, 2,5-dimethyl-
57



4.50

m/z 40.95 34.79%

4.50

m/z 42.90 28.18%

4.50

m/z 55.90 22.64%

4.50

m/z 97.95 19.61%

4.50

B 0074

1B
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: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (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: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		

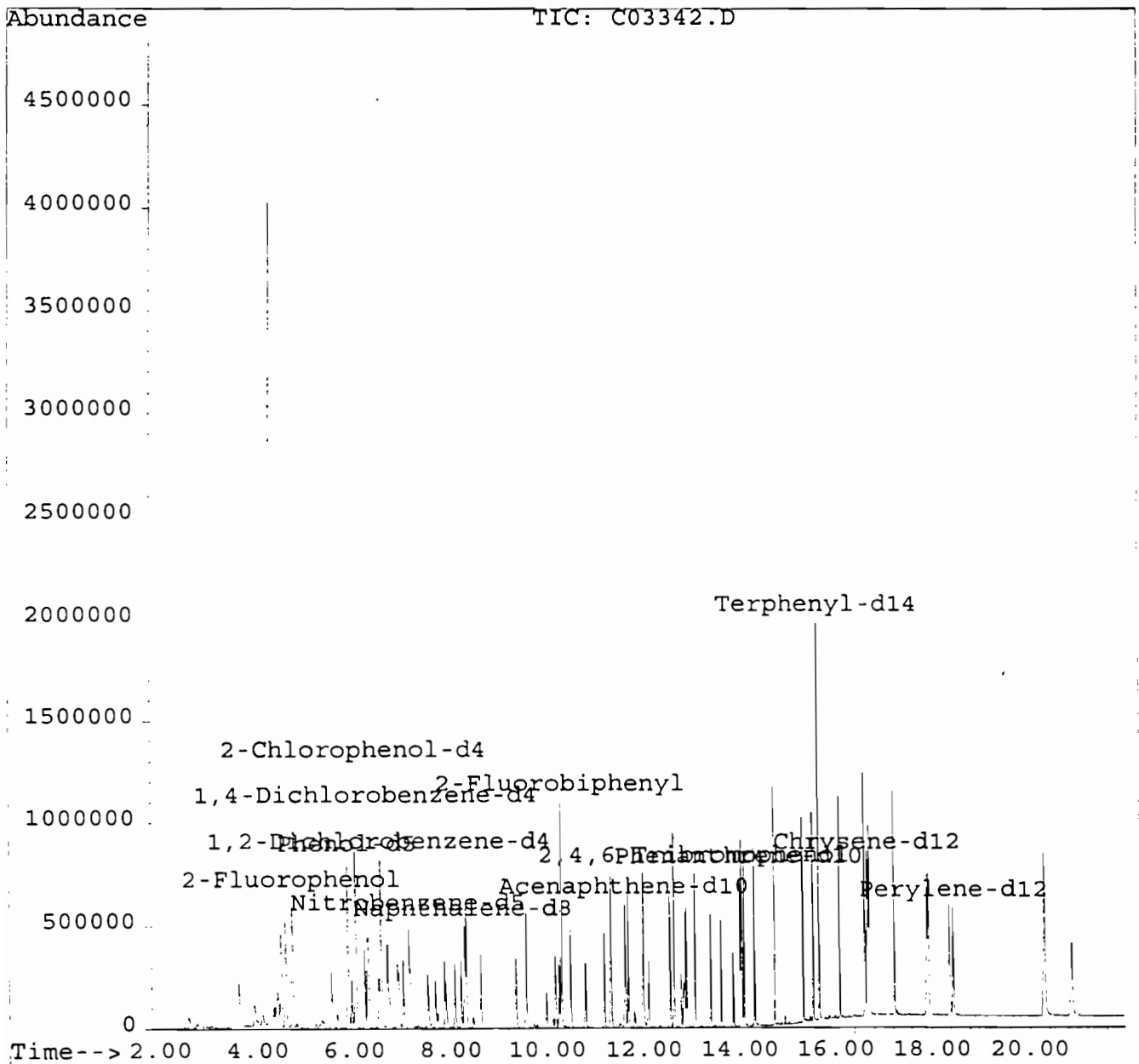
B 0076

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
 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

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

C03342.D CLP2.M

Wed Feb 19 11:45:01 1997

H5890C

Page 1

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

B 0079

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

C03342.D CLP2.M

Wed Feb 19 11:45:17 1997

H5890C

Page 2

H2M LABS, INC.

SUMMARY OF CALCULATIONS PERFORMED FOR BASE-NEUTRAL/ACID EXTRACTABLES

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

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

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

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.

H2M LABS, INC.

V. DOCUMENTATION FOR SEMIVOLATILES

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

SEMI-VOLATILES SAMPLE PREPARATION

DELIV. CODE: AL 70, RY-70 TEST CODE: XBATLL

OTHER (SPECIFY) _____

SOLID
PHASE
DIL

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[illegible]

Date: _____

2607

H2M LABS, INC.

	LOT	SOL'N ID
Sub.		
I.S.		
M.S.		
QC Check		

SEMI-VOLATILE

SCAN: BNA

INSTRUMENT: H5972

COLUMN: RTX-5MS

ANALYSTS SIGNATURE	DATE	RUN #	UL	SAMPLE #	TIME INJ.	INTERNAL UL	STD: SOLN	VOL	COMMENTS
A. Altman	2/10/97	C03242	2	50 mg DFPP	1203	-	M3166C	-	
		C03243		SS7A020	1218	10	BN392	1.0	
		C03244		SS7A050	1325				} CLP2. m
		C03245		SS7A080	1356				
		C03246		SS7A120	1428				
		C03247	✓	SS7A160	1459	✓	✓	✓	
A. Altman	2/12/97	C03248	2	50 ng DFPP	1448	-	M3166C	-	
		C03249		SS7A050	1502	10	BN392	1.0	
		C03250		GBLK(1/31)W	1536				
		C03251		MSB(1/31)W	1610				
		C03252		6329	1643				9702472
		C03253		6329 MS	1717				9702472 MS
		C03254		6329 MSΔ	1751				9702472 MSΔ
		C03255		6330	1824	✓		✓	9702473
		C03256		GBLK(1/31)S	1858	5		0.5	
		C03257		MSB(1/31)S	1933				
		C03258		GFC BIK(2/3)	2007				
		C03259		6342	2041				9702481
		C03260		6342 MS	2116				9702481 MS
		C03261		6342 MSΔ	2150	✓		✓	9702481 MSΔ
		C03262		6329 AL(1.2)	2224	10		1.0	9702472 AL
		C03263	✓	6329 AL(1.4)	2259	✓	✓	✓	9702472 AL

P 0056 B 0083

H2M LABS, INC.

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

SEMI-VOLATILE

SCAN: BNA

INSTRUMENT: H5972

COLUMN: RTK-5MS

ANALYSTS SIGNATURE	DATE	RUN #	UL	SAMPLE #	TIME INJ.	INTERNAL UL	STD: SOLN	VOL	COMMENTS
J. Altman	2/18/97	OK C03330	2	mw-13A	0135	10	BN392	1.0	9702612
		OK C03331		mw-13I	0207				9702613
		OK C03332		Fld. BIK (1/28)	0239				9702614
		* C03333		mw-34-60	0311		DIL 1:2		9702860
		OK C03334		mw-19-60	0344				9702862
✓	✓	OK C03335	✓	Fld. BIK (1/30)	0417	✓	✓	✓	9702863
J. Altman	2/18/97	C03336	2	50 mg AFAP	1521	-	M166C	-	
		C03337		S87-0050	1536	10	BN392	1.0	
		* C03338		S8LK (1/23)	1607				RIN-60d inj.
		OK C03339		MSB (1/23)	1639				
		OK C03340		LF6 (1/23)	1710	✓		✓	
		OK C03341		S8LK (1/24)	1743	5		0.5	
		OK C03342		LF6 (1/24)	1814	✓		✓	
		OK C03343		46 (1/2) mw-34-60	1846	10		1.0	9702860 AL
		OK C03344		0017	1917				9701357
		OK C03345		0017 MS	1949				9701857 MS
		OK C03346		0017 MSD	2021				9701857 MSD
		OK C03347		0018	2052	✓		✓	9701358
		OK C03348		B60214	2124	5		0.5	9702028
		OK C03349		ML #36	2156	✓		✓	9702231
		OK C03350		S8LK (2/10)	2227	10		1.0	
✓	✓	OK C03351	✓	LF6 (2/10)	2258	✓	✓	✓	

B 0084

P 0060

H2M LABS, INC.

SDG # NAECB-0122

SCAN BNR

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: *Norman A. Allen*

Date: 2/19/97

B 0085

Analytical Data Package For

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0

CONTRACT #: C003180

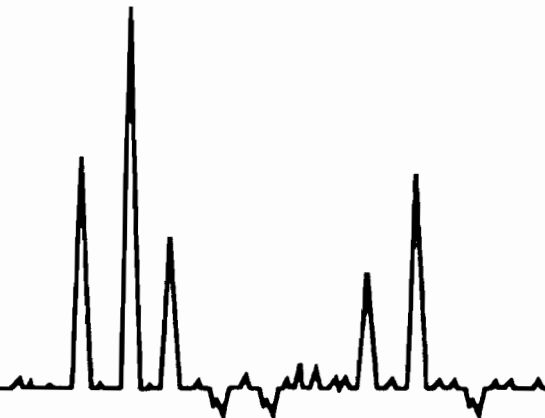
CASE #: RA096 SDG #: 0122

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.

RAC46

0122

METALS

TABLE OF CONTENTS

- I. REPORTS**
- II. QC SUMMARY**
- III. RAW DATA**
- IV. DOCUMENTATION**

3/4/97 ~~TECO H~~ H 0001

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.

B223AX
B224AX
B225AX
B225AXD
B225AXS
B60219
B60219D
B60219S
B60223
B60224
B60225
B60225D
B60225S

Lab Sample ID.

9702041
9702043
9702045
9702045D
9702045S
9702033
9702033D
9702033S
9702040
9702042
9702044
9702044D
9702044S

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?
If yes, were raw data generated before
application of background corrections?

Yes/No YES

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

COVER PAGE - IN

M C002

I. REPORTS FOR METALS

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

- E - The reported value is estimated because of the presence of interference. An explanatory note 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.

LMS Sample Designation

WAGSP-02

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B60219

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

FORM I - IN

11 0025

1
INORGANIC ANALYSIS DATA SHEET

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

FORM I - IN

H 0026

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

1
INORGANIC ANALYSIS DATA SHEET

B60224

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

FORM I - IN

H 0078

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

INORGANIC ANALYSIS DATA SHEET

B60225

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

M C010

1
INORGANIC ANALYSIS DATA SHEET

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

H2M LABS, INC.

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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

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					-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

FORM II (PART 2) - IN

M 0000

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): WATER

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

Analyte	Initial Calib. Blank (ug/L) C		Continuing Calibration Blank (ug/L)						Preparation Blank C		M
	1	C	2	C	3	C					
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											

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)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
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											

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): WATER

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

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
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											

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		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%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

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		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%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								

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		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%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

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	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	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	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	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

Lab Name: H2M LABS, INC.

Contract: C003180

B225AXS

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	500.00	102.4		P
Arsenic	75-125	2022.1460	5.1909	2000.00	100.8		P
Barium	75-125	2176.9000	73.6667	2000.00	105.2		P
Beryllium	75-125	54.0667	2.4000	50.00	103.3		P
Cadmium	75-125	49.9667	1.2333	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	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	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	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	2000.00	102.4		P
Silver	75-125	49.6496	0.5000	50.00	99.3		P
Sodium							NR
Thallium	75-125	1921.4206	3.6599	2000.00	95.9		P
Vanadium	75-125	496.9333	1.1000	500.00	99.4		P
Zinc		5551.5000	5137.4667	500.00	82.8		P
Cyanide							NR

Comments:

DISSOLVED METALS

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:

FORM V (PART 2) - IN

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BR4
3/4/17

H2M LABS, INC.

ENVIROFORMS/INORGANIC CLP

5B

SAMPLE NO.

POST DIGEST SPIKE SAMPLE RECOVERY

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) B	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony		135.37	7.48	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)	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:

DISSOLVED METALS

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~~

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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								

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								

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								

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)			Solid (mg/kg)					%R
	True	Found	%R	True	Found	C	Limits		
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									

SDG No.: XX0122

Concentration Units: ug/L

[illegible]

H2M LABS, INC.

ENVIRONMENTAL/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	% Differ- ence	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

FORM IX - IN

11 0039

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	% Differ- ence	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

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	% Differ- ence	Q	M
Aluminum	8682.53	U	8834.83	U	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

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.

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.

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.

FORM X - IN

10024

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:

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.

FORM XI (PART 1) - IN

11-0026

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:

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.

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

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

Preparation Log

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No. :

SDG No.: XX0122

Method: P

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																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V N
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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	X	X

Contract: C003180

Case No.: RA096

SAS No. :

SDG No.: XX0122

Method: P

Start Date: 02/15/97

End Date: 02/15/97

Analytes

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																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
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			
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				
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							

Contract: C003180

SDG No.: XX0122

Method: P

End Date: 02/18/97

Analytes

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																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
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		
S	1.00	1119		X	X																X								
S	1.00	1125		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																
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				
ICVL3	1.00	1207												X	X														
ICB3	1.00	1214			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				
ICSAI3	1.00	1240		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				
CCV5	1.00	1255			X	X			X	X	X		X	X	X	X	X			X	X		X	X	X				
CCVL5	1.00	1302												X	X														
CCB7	1.00	1309			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				
CCVL6	1.00	1446												X	X														
CCB8	1.00	1454			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																											

14

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

FORM XIV - IN

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																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
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		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
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		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
ZZZZZZ	1.00	0856		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
ZZZZZZ	1.00	0858		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
ZZZZZZ	1.00	0901		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
ZZZZZZ	1.00	0903		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
ZZZZZZ	1.00	0905		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
B60225	1.00	0907		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
B60225D	1.00	0909		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			
B60225S	1.00	0912		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-			

Contract: C003180

SDG No.: XX0122

Method: CV

End Date: 01/31/97

Analytes

III. RAW DATA FOR METALS

- A. ICP DATA
- B. MERCURY DATA

H2M LABS, INC.

Don't use Na,K see 2/13/97 (15461)
 Run mhm 2/24/97

Standards Prep'd: 2/15/97
 Source: High Purity

Trace 61E

CLIENT NOEC0122 (Case BA096)

DATE 2/15/97

TASK: PROFCLP2
 (Autosampler)

RESULT FILE: NOEC0122.ASC

ANALYST C. G. F.
 mhm 2/24/97

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702044S	B60225S Dilute Fe mhm 2/24/97
2	ICVL		27	9702044L	B60225L XXX225L
3	ICB		28	9702045	B2251X XXX225A
4	CAIT		29	97020450	B2251X0 XXX225A0
5	ICSAI		30	9702045S	B2251XS XXX225AS
6	ICSABI		31	9702045L	B2251XL XXX225AL
7	CCV1		32	* 9702040	B60223 Fe saturated; XXX223; + K-Coeff's mhm 2/24/97
8	CCVL1		33	CCV3	
9	CCB1		34	CCVL3	
10	PBW	DCC0122	35	CCB3	
11	PBS		36	9702040	222222 (1:5 Dilution) Needs Further Dilution XXX223; Dilute Fe K-Coeff's
12	LCSW		37	9702033P	222222 XXX219P; Not required
13	LCSS		38	9702044P	B60225P XXX225P; Sb = +120 µg/L Cr = +20 µg/L
14	9702033	XXXX219 B60219	39	9702045P	222222 XXX225AP; Not required
15	97020330	XXXX2190 B602190	40	9703628	EACOMP; BNLS014
16	9702033S	XXXX219S B60219S	41	9703820	EACOMP; BNLS014
17	9702033L	XXXX219L B60219L	42	CBIF	
18	9702041	XX223A B2259X	43	ICSAF	
19	* 9702042	B60224 Dilute Fe (1:2) XXX224; Cd = -0.0067	44	ICSABF	* SAMPLES 9702042 and 9702040 Need dilution
20	CCV2		45	CCV4	For Mg, Fe, Cu, Cd, Cr, Ca
21	CCVL2		46	CCVL4	Fe, mg, min, Pb, Sb, Se, Te
22	CCB2		47	CCB4	V, Zn - Fe over linear range
23	9702043	XX224A B2251X	48		and interference corrections applied
24	9702044	B60225 Dilute Fe (1:2) XXX225	49		to above analytes mhm 2/24/97
25	97020440	B602250 Dilute Fe XXX2250	50		

mhm 2/24/97 Dilution not required Fe in Linear Range

P 0058

M 008

H2M LABS, INC.

SDG NO.: NDEC0122 (Cu32#RA096)
 DATE: 2-15-97
 ANALYST: CGZ
 ELEMENT: TCL

METALS QC CHECKLIST

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?

YES	NO	NA
☒	☐	☐

☒	☐	☐
☒	☐	☐

☒	☐	☐

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

☐	☒	☐

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

☐	☐	☒

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

toSampler Report Table: NDEC

NDEC 0122 (Case # AA046)

Thu 02-20-97 11:14:59 AM

page 1

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

- Racks ---

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

- Sample Sets ---

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

- Preparation Info ---

Set #	Uptake	Uptake#2	Final	Dil.Factor

Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	NAK100	-NA-	1	Standard
2	1	2	FeNaL	-NA-	1	Standard
3	1	3	MULTIH	-NA-	1	Standard
4	1	4	FURNH	-NA-	1	Standard
5	1	5	ICSH	-NA-	1	Standard
6	1	6	AGSBH	-NA-	1	Standard
7	1	7	BLANK	-NA-	1	Standard
8...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	PBW	1	-NA-	Sample
11	2	3	PBS	1	-NA-	Sample
12	2	4	LCSW	1	-NA-	Sample
13	2	5	LCSS	1	-NA-	Sample
14	2	6	XXX219	1	-NA-	Sample

N 0063

ack #2

pos	Row	Col	Sample Name	Set #	#Used	Type
15	2	7	XXX219D	1	-NA-	Sample
16	2	8	XXX219S	1	-NA-	Sample
17	3	1	XXX219L	1	-NA-	Sample
18	3	2	XX223A	1	-NA-	Sample
19	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

ack #3

pos	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
10	2	2	CCVL3	1	-NA-	Sample
11	2	3	CCB3	1	-NA-	Sample
12	2	4	XXX223	1	-NA-	Sample
13	2	5	XXX219P	1	-NA-	Sample
14	2	6	XXX225P	1	-NA-	Sample
15	2	7	XX225AP	1	-NA-	Sample
16	2	8	9703628	1	-NA-	Sample
17	3	1	9703820	1	-NA-	Sample
18	3	2	CRIF	1	-NA-	Sample
19	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-

ack #4

pos	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
Standardization Rpt.
ICAP 61E Trace

Method: PROFCLP2

Standard: BLANK

NDEC 0122 (Case #AA096)

Sat 02-15-97 11:31:47 AM

page 1

Chadley Data File: NDEC0122.ASC

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Avg	-.00013	.0054	-.00188	.0023	.0000	-.0016	.0111
SD	.00004	.0004	.00091	.0000	.0000	.0000	.0006
SRSD	31.718	7.734	48.388	1.042	.0000	1.470	5.765
#1	-.00010	.0058	-.00235	.0022	.0000	-.0016	.0116
#2	-.00010	.0054	-.00083	.0023	.0000	-.0016	.0112
#3	-.00017	.0050	-.00246	.0023	.0000	-.0016	.0104
Elem	Cd	Co	Cr	Cu	Fe	Fe	K
Avg	.0008	.0000	.0004	.0027	.0000	.1166	.0080
SD	.0009	.0001	.0000	.0000	.0000	.0156	.0006
SRSD	104.1	461.2	4.894	1.610	.0000	13.36	7.032
#1	.0015	.0001	.0004	.0027	.0000	.1315	.0076
#2	.0011	-.0001	.0004	.0028	.0000	.1180	.0086
#3	-.0001	.0000	.0005	.0027	.0000	.1004	.0076
Elem	Mg	Mn	Na	Na	Ni	2203/1	2203/2
Avg	.0034	.0008	-.0435	.5910	.0002	.01683	-.00093
SD	.0007	.0002	.0026	.0045	.0001	.00329	.00110
SRSD	20.99	25.98	5.878	.7620	55.58	19.571	117.57
#1	.0041	.0007	-.0410	.5858	.0001	.01311	-.00210
#2	.0035	.0010	-.0433	.5931	.0003	.01803	.00007
#3	.0027	.0007	-.0461	.5940	.0002	.01936	-.00076
Elem	2068/1	2068/2	1960/1	1960/2	Sn	Ti	Ti1908
Avg	-.00579	.00035	-.00833	.00348	.0042	.0001	-.00918
SD	.00201	.00155	.00116	.00079	.0015	.0000	.00170
SRSD	34.778	436.10	13.925	22.673	35.06	49.43	18.542
#1	-.00348	.00214	-.00962	.00431	.0048	.0001	-.00735
#2	-.00721	-.00059	-.00738	.00274	.0025	.0000	-.01071
#3	-.00666	-.00049	-.00798	.00340	.0052	.0001	-.00947
Elem	V	Zn	Si2881	Mo2020			
Avg	.0001	.0018	.0253	.0004			
SD	.0000	.0001	.0002	.0002			
SRSD	34.56	3.547	.7649	48.93			
#1	.0001	.0019	.0251	.0003			
#2	.0000	.0018	.0255	.0002			
#3	.0001	.0017	.0252	.0006			

M 0085

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	--	--	--	--	--	--

Method: PROFCLP2 Standard: ICSH

Elem	Al	Ca	Fe	Mg
Avg	35.37	54.29	.5960	61.98
SD	.04	.11	.0009	.11
RSD	.1032	.2039	.1493	.1722
#1	35.42	54.19	.5954	61.89
#2	35.36	54.27	.5955	61.95
#3	35.35	54.40	.5970	62.10

IntStd	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Avg	371.030	--	--	--	--	--	--
SD	26268	--	--	--	--	--	--
RSD	97.75852	--	--	--	--	--	--
#1	.3721639	--	--	--	--	--	--
#1	26155	--	--	--	--	--	--
#2	26331	--	--	--	--	--	--
#3	26317	--	--	--	--	--	--

Method: PROFCLP2 Standard: FURNH

Item	As1890	2203/1	2203/2	1960/1	1960/2	T1190S	
Avg	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	
IntStd	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Item	Y	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avg	29222	--	--	--	--	--	--
Dev	25.27660	--	--	--	--	--	--
RSD	.0864989	--	--	--	--	--	--
1	29220	--	--	--	--	--	--
2	29248	--	--	--	--	--	--
3	29198	--	--	--	--	--	--

Method: PROFCLP2 Standard: MULTIH

	B	Ba	Be	Cd	Co	Cr	Cu
lem	1.312	6.212	7.424	69.64	2.070	2.420	1.500
vge	.002	.009	.017	.24	.006	.006	.002
Dev	.1875	.1475	.2225	.3508	.2853	.2590	.1345
RSD							
1	1.310	6.206	7.403	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	69.34	2.077	2.425	1.499

	Mn	Ni	Sn	Ti	V	Zn	Si2881
lem	17.46	1.984	.0156	2.245	1.133	3.898	.0770
vge	.04	.006	.0037	.004	.002	.011	.0006
Dev	.2468	.2849	23.83	.1627	.1707	.2857	.8494
RSD							
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

	Mo2020
lem	2.260
vge	.006
Dev	.2762
RSD	
1	2.253
2	2.265
3	2.263

ntStd	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	29216	--	--	--	--	--	--
Dev	65.85349	--	--	--	--	--	--
RSD	.2253996	--	--	--	--	--	--
1	29258	--	--	--	--	--	--
2	29140	--	--	--	--	--	--
3	29251	--	--	--	--	--	--

Method: PROFCLP2 Standard: FeNaL

Elem	Fe	Na
Avg	41.43	26.48
Dev	.04	.03
RSD	.0955	.1114

1	41.39	26.46
2	41.46	26.52
3	41.44	26.48

ntStd	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avg	29791	--	--	--	--	--	--
Dev	10.50397	--	--	--	--	--	--
RSD	.0352592	--	--	--	--	--	--

1	29801	--	--	--	--	--	--
2	29780	--	--	--	--	--	--
3	29790	--	--	--	--	--	--

Method: PROFCLP2 Standard: NAK100

Element	K	Na
Average	16.21	5.340
Dev	.16	.052
RSD	.9800	.9723

1	16.04	5.282
2	16.25	5.356
3	16.35	5.382

Std	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Element	Y	--	--	--	--	--	--
Average	371.030	--	--	--	--	--	--
Dev	29131	--	--	--	--	--	--
RSD	272.2664	--	--	--	--	--	--
	.9346384	--	--	--	--	--	--
1	29399	--	--	--	--	--	--
2	29138	--	--	--	--	--	--
3	28855	--	--	--	--	--	--

Method: PROFCLP2

Slope = Conc(SIR)/IR

Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
	328.058	AGSBH	BLANK	2696.38	.342455	02/15/97 12:02:53
	308.215	ICSH	BLANK	1.11312	-.000873	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
	493.409	MULTIH	BLANK	.804900	.000000	02/15/97 12:02:53
	313.042	MULTIH	BLANK	.673387	.001080	02/15/97 12:02:53
	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
	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
	257.610	MULTIH	BLANK	.286418	-.000222	02/15/97 12:02:53
	330.232	NAK100	BLANK	1.23615	.004969	02/15/97 12:02:53
	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
103/1	220.351	FURNH	BLANK	204.759	-3.44686	02/15/97 12:02:53
103/2	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
168/1	206.831	AGSBH	BLANK	594.150	3.43783	02/15/97 12:02:53
168/2	206.832	AGSBH	BLANK	1155.83	-.409770	02/15/97 12:02:53
160/1	196.021	FURNH	BLANK	1414.10	11.7799	02/15/97 12:02:53
160/2	196.022	FURNH	BLANK	1890.27	-6.58564	02/15/97 12:02:53
	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
	213.856	MULTIH	BLANK	1.28412	-.002312	02/15/97 12:02:53
2681	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

Method: PROFCLP2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	328.068	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	308.215	BLANK	.005121	.005389	-.000268
		ICSH	39.3755	35.3749	4.00064
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1890	189.042	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	249.678	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	493.409	BLANK	.000000	.000000	.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	313.042	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	317.933	BLANK	.008332	.011078	-.002747
		ICSH	57.6991	54.2859	3.41311
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	226.502	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	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
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	324.754	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
e	271.441	BLANK ICSH	-.000020 .629186	.000000 .595968	-.000020 .033219
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
e	259.940	BLANK FeNaL	.000000 5.00000	-.000000 5.00000	.000000 .000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
	766.491	BLANK NAK100	.010821 15.2509	.007952 16.2130	.002869 -.962090
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
g	279.079	BLANK ICSH	.000441 70.1095	.003438 61.9805	-.002997 8.12901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
n	257.610	BLANK MULTIH	.000000 5.00000	.000000 5.00000	-.000000 .000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
a	330.232	BLANK NAK100	-.048764 6.60571	-.043468 5.33978	-.005296 1.26593
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
a	588.995	BLANK FeNaL	.000000 5.00000	.000000 5.00000	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1	231.604	BLANK MULTIH	.000000 5.00000	-.000000 5.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
203/1	220.351	BLANK FURNH	.000000 1000.00	-.000000 1000.00	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
203/2	220.352	BLANK FURNH	.000000 1000.00	.000000 1000.00	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
b2203	220.353	NONE NONE	.000000 .000000	.000000 .000000	.000000 .000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
68/1	206.831	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000
68/2	206.832	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	.000000
60/1	196.021	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000
60/2	196.022	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	.000000
	189.989	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
	334.941	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000
1908	190.864	BLANK	.000000	-.000000	.000000
		FURNH	1000.00	1000.00	-.000061
	292.402	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
	213.856	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00300	-.003000

standardization

Readback Report

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

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

M 0076

Analysis Report

Sat 02-15-97 12:16:03 PM

page 1

Method: PROFCLP2 Sample Name: ICV

Run Time: 02/15/97 12:08:54

Operator:

Comment:

Mode: CONC Corr. Factor: 1

Element	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Average	1023.3	50.17	517.26	2.660	2.617	2.627	48.24
Dev	.5	.13	2.71	.008	.000	.007	.16
RSD	.04740	.2660	.52356	.2910	.0150	.2479	.3265
1	1022.9	50.17	518.41	2.651	2.616	2.621	48.08
2	1023.1	50.04	514.16	2.667	2.617	2.626	48.23
3	1023.8	50.31	519.20	2.661	2.616	2.634	48.40

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

Element	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average	2.559	2.495	2.566	2.568	49.47	85.96	48.78
Dev	.012	.006	.008	.001	.16	.16	.12
RSD	.4651	.2589	.2925	.0534	.3245	.1822	.2411
1	2.548	2.489	2.560	2.570	49.39	86.12	48.66
2	2.556	2.495	2.563	2.568	49.37	85.81	48.79
3	2.572	2.502	2.574	2.567	49.66	85.96	48.89

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

Element	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Average	2.521	86.67	2.488	480.77	474.37	476.50	1030.1
Dev	.005	.08	.010	2.68	2.04	1.96	8.1
RSD	.1967	.0896	.3937	.55663	.42907	.41159	.78734
1	2.517	86.65	2.478	480.17	472.15	474.82	1025.7
2	2.520	86.75	2.489	478.45	474.83	476.04	1025.2
3	2.526	86.60	2.498	483.70	476.14	478.66	1039.5

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

Element	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Average	512.14	1020.2	1035.1	518.44	509.00	3154.	2.592
Dev	3.47	3.7	10.3	4.80	3.76	10.	.003
RSD	.67763	.36608	.99620	.92582	.73948	.3162	.1037
1	509.34	1018.6	1029.2	518.16	504.93	3143.	2.590
2	511.07	1017.5	1029.1	513.78	509.71	3160.	2.592
3	516.02	1024.5	1047.0	523.37	512.35	3160.	2.595

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	550.00						

M 9077

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	--	--	--	--	--	--

Analysis Report

Sat 02-15-97 12:23:21 PM

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Method: PROFCLP2 Sample Name: ICVL
 Run Time: 02/15/97 12:16:12

Operator:

Comment:

Mode: CONC Corr. Factor: 1

Element	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Value	.37483	-.0050	.07936	.0005	.0015	.0014	-.0042
Dev	.36815	.0062	2.1011	.0006	.0002	.0002	.0025
RSD	98.219	125.0	2647.4	112.5	12.99	12.91	60.83
1	.76934	-.0008	-2.3467	.0012	.0017	.0015	-.0026
2	.04044	-.0020	1.2765	.0001	.0015	.0014	-.0028
3	.31470	-.0121	1.3083	.0003	.0013	.0012	-.0071

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Element	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Value	.0015	.0015	.0014	.0016	2.574	.0802	.0135
Dev	.0004	.0002	.0001	.0001	.000	.0043	.0006
RSD	26.72	11.38	4.670	6.203	.0054	5.426	4.616
1	.0017	.0016	.0015	.0017	2.574	.0844	.0137
2	.0017	.0017	.0013	.0015	2.574	.0804	.0141
3	.0010	.0013	.0014	.0015	2.574	.0757	.0129

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Element	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Value	.0012	2.622	.0024	-.57165	-.15481	-.29331	1.7591
Dev	.0001	.010	.0007	1.71316	.84138	.76568	1.0554
RSD	11.44	.3763	30.30	299.69	543.50	261.04	59.996
1	.0013	2.617	.0021	1.0820	.30779	.56592	1.7633
2	.0013	2.634	.0018	-2.3387	.35378	-.54250	.70161
3	.0011	2.616	.0032	-.45833	-1.1260	-.90336	2.8123

Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		2.750					
Low		2.250					

Element	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Value	1.4487	2.4341	1.4216	3.2973	.52533	.8537	.0015
Dev	2.1354	1.4934	2.1996	1.8723	2.9893	1.020	.0003
RSD	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	2.4442	4.1254	-1.0081	1.7753	2.7777	1.166	.0017
3	-1.0027	1.8801	3.2773	2.7287	-2.8660	1.681	.0012

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

4-0073

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	--	--	--	--	--	--

Analysis Report

Sat 02-15-97 12:30:38 PM

page 1

Method: PROFCLP2 Sample Name: ICB

Operator:

Run Time: 02/15/97 12:23:29

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.07774	-.0220	-.49504	.0008	.0005	.0004	-.0216
SD	.34059	.0032	.44096	.0002	.0002	.0001	.0020
RSD	438.10	14.73	89.076	24.45	34.76	28.96	9.412
#1	-.46760	-.0200	-.67181	.0009	.0006	.0005	-.0193
#2	.16205	-.0203	.00688	.0006	.0005	.0004	-.0224
#3	.07232	-.0258	-.82018	.0008	.0003	.0003	-.0232
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
Avg	.0005	.0007	.0006	.0003	-.0019	.0344	-.0056
SD	.0001	.0005	.0002	.0002	.0023	.0138	.0039
RSD	11.05	67.06	41.03	46.26	122.6	39.94	69.59
#1	.0005	.0012	.0008	.0005	.0005	.0480	-.0020
#2	.0005	.0007	.0006	.0002	-.0019	.0348	-.0049
#3	.0004	.0003	.0004	.0004	-.0041	.0205	-.0097
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
Avg	.0005	.0145	.0010	-1.3878	.74767	.03687	1.9492
SD	.0002	.0043	.0001	.7268	1.0449	.86443	.8132
RSD	34.29	30.03	4.853	52.372	139.76	2344.5	41.719
#1	.0007	.0192	.0010	-.78119	.60596	.14434	1.7738
#2	.0005	.0134	.0010	-2.1934	-.21915	-.87627	1.2380
#3	.0003	.0107	.0010	-1.1889	1.8562	.84255	2.8358
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
Avg	1.0026	1.2613	2.2922	1.0248	.99108	.8494	.0004
SD	.9205	.1803	1.1492	2.3863	2.5401	1.632	.0001
RSD	91.816	14.297	50.134	232.85	256.30	192.1	25.78
#1	1.5499	1.3553	1.9823	.40351	2.1218	2.567	.0006
#2	1.5181	1.0534	1.3298	-.98935	2.7695	.6632	.0004
#3	-.06019	1.3752	3.5646	3.6604	-1.9181	-.6815	.0003
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	5.0000						

MK0081

LOW -5.0000

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	2.0372	.0005	.0007	-.0291	.0013
SDev	.2879	.0001	.0001	.0482	.0004
SRSD	14.132	15.94	18.03	165.7	35.39

#1	2.3634	.0005	.0009	.0264	.0018
#2	1.8958	.0005	.0007	-.0530	.0012
#3	1.8473	.0006	.0006	-.0606	.0009

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	29938	--	--	--	--	--	--
SDev	32.17056	--	--	--	--	--	--
SRSD	.1074575	--	--	--	--	--	--
#1	29957	--	--	--	--	--	--
#2	29901	--	--	--	--	--	--
#3	29956	--	--	--	--	--	--

Analysis Report

Sat 02-15-97 12:37:55 PM

page 1

Method: PROFCLP2 Sample Name: CRII

Operator:

Run Time: 02/15/97 12:30:46

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	19.319	-.0278	19.068	.1974	.0001	.0103	-.0244
SD	.136	.0025	.901	.0018	.0000	.0001	.0003
RSD	.70478	9.025	4.7269	.8856	32.14	.7935	1.326
#1	19.429	-.0258	18.650	.1956	.0002	.0102	-.0245
#2	19.167	-.0269	18.452	.1975	.0001	.0103	-.0241
#3	19.361	-.0306	20.103	.1991	.0001	.0104	-.0247

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106	.1026	.0204	.0492	-.0077	.0003	-.0145
SD	.0001	.0008	.0003	.0007	.0007	.0023	.0013
RSD	.5624	.7712	1.458	1.393	9.763	868.0	8.795
#1	.0106	.1017	.0201	.0485	-.0069	-.0015	-.0131
#2	.0106	.1027	.0206	.0495	-.0078	.0029	-.0154
#3	.0107	.1033	.0207	.0497	-.0084	-.0006	-.0151

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.0309	.0065	.0833	3.7168	6.3818	5.4946	122.51
SD	.0002	.0015	.0003	.4186	.8132	.6790	3.23
RSD	.7321	22.99	.3934	11.263	12.743	12.357	2.6397
#1	.0306	.0076	.0831	3.2407	5.5171	4.7594	118.77
#2	.0308	.0072	.0831	3.9823	6.4970	5.6266	124.37
#3	.0311	.0048	.0836	4.0274	7.1312	6.0980	124.38

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	9.1299	122.18	122.67	11.704	7.8442	-.7730	.0001
SD	.7025	1.37	4.18	2.368	1.2311	.7615	.0001
RSD	7.6947	1.1192	3.4100	20.228	15.694	98.51	77.56
#1	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

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	21.772	.0998	.0422	2.306	.0200
SD	.694	.0011	.0005	.094	.0004
RSD	3.1879	1.080	1.115	4.079	1.848
#1	21.530	.0987	.0416	2.199	.0196
#2	21.232	.0997	.0425	2.345	.0201
#3	22.555	.1009	.0423	2.375	.0203

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alysis Report

Sat 02-15-97 12:45:12 PM

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

Operator:

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	203.8	.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						

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Analysis Report

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low -5.0000

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	1.7415	-.0023	.0128	.0881	-.0005
Dev	2.3564	.0003	.0005	.0900	.0004
RSD	135.31	14.95	3.722	102.2	67.90

#1	-.51556	-.0019	.0133	.1863	-.0006
#2	4.1861	-.0025	.0126	.0095	-.0002
#3	1.5540	-.0025	.0124	.0684	-.0009

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
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avge	27043	--	--	--	--	--	--
Dev	264.3626	--	--	--	--	--	--
RSD	.9775638	--	--	--	--	--	--
#1	26738	--	--	--	--	--	--
#2	27206	--	--	--	--	--	--
#3	27185	--	--	--	--	--	--

M 0085

analysis Report

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thod: PROFCLP2 Sample Name: ICSABI

Operator:

n Time: 02/15/97 12:45:25

ment:

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	1.093	.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	Se1950	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	1.2838	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						

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Analysis Report

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LOW 800.00

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	927.75	.5050	1.072	1.014	1.038
SDDev	10.66	.0060	.012	.016	.014
SRSD	1.1494	1.180	1.137	1.538	1.331
#1	939.25	.5116	1.086	1.030	1.054
#2	925.84	.5033	1.066	.9992	1.032
#3	918.18	.5000	1.064	1.013	1.028

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
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	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avge	26454	--	--	--	--	--	--
SDDev	119.2742	--	--	--	--	--	--
SRSD	.4508683	--	--	--	--	--	--
#1	26340	--	--	--	--	--	--
#2	26578	--	--	--	--	--	--
#3	26445	--	--	--	--	--	--

M 0087

alysis Report

Sat 02-15-97 12:59:50 PM

page 1

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

Operator:

Item	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	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

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

Item	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	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

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

Item	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	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	.1843	.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	2.495	85.51	2.490	478.36	471.93	474.07	1019.1

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

Item	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Tl
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	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

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	550.00						

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alysis Report

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ow 450.00

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	497.63	2.517	2.625	51.57	2.572
Dev	1.36	.007	.004	.15	.009
RSD	.27422	.2603	.1405	.2846	.3428

1	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

Errors	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	29347	--	--	--	--	--	--
Dev	111.8104	--	--	--	--	--	--
RSD	.3809935	--	--	--	--	--	--
1	29218	--	--	--	--	--	--
2	29414	--	--	--	--	--	--
3	29409	--	--	--	--	--	--

alysis Report

Sat 02-15-97 01:07:08 PM

page 1

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	17.856	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							

0090

Analysis Report

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LOW

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	3.8068	.0012	.0015	-.1402	.0031
SD	1.4085	.0003	.0003	.0288	.0013
RSD	36.999	25.51	18.10	20.54	40.79

#1	4.4077	.0014	.0018	-.1120	.0045
#2	4.8153	.0013	.0014	-.1390	.0027
#3	2.1976	.0008	.0013	-.1696	.0021

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	--	--	--	--	--	--
Avg	30010	--	--	--	--	--	--
SD	98.62022	--	--	--	--	--	--
RSD	.3286296	--	--	--	--	--	--
#1	30118	--	--	--	--	--	--
#2	29924	--	--	--	--	--	--
#3	29987	--	--	--	--	--	--

M 0091

alysis Report

Sat 02-15-97 01:14:26 PM

page 1

thod: PROFCLP2 Sample Name: CCB1

Operator:

n Time: 02/15/97 13:07:17

ment:

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						

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alysis Report

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ow -5.0000

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	1.8987	.0003	.0004	-.0360	.0009
Dev	.7718	.0003	.0002	.0133	.0003
RSD	40.648	88.63	41.65	57.02	30.94

1	1.6977	.0003	.0004	-.0273	.0012
2	2.7511	.0000	.0006	-.0513	.0006
3	1.2473	.0006	.0002	-.0293	.0008

errors	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	30278	--	--	--	--	--	--
Dev	53.00241	--	--	--	--	--	--
RSD	.1750522	--	--	--	--	--	--
1	30223	--	--	--	--	--	--
2	30283	--	--	--	--	--	--
3	30328	--	--	--	--	--	--

M 6093

Analysis Report

Sat 02-15-97 01:21:43 PM

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Method: PROFCLP2 Sample Name: PBW

Operator:

Run Time: 02/15/97 13:14:35

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.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
Avg	.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
Avg	-.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
Avg	-.42991	.98255	-.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						

MO024

Analysis Report

Sat 02-15-97 01:21:43 PM

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low -5.0000

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	.59370	.0001	.0031	7.091	.0004
SD	1.2391	.0002	.0001	.018	.0003
RSD	208.71	253.8	3.248	.2598	77.70

#1	1.2548	.0000	.0032	7.077	.0007
#2	-.83574	-.0001	.0032	7.083	.0001
#3	1.3620	.0003	.0030	7.112	.0005

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
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	30020	--	--	--	--	--	--
SD	75.63524	--	--	--	--	--	--
RSD	.2519517	--	--	--	--	--	--
#1	30102	--	--	--	--	--	--
#2	30003	--	--	--	--	--	--
#3	29954	--	--	--	--	--	--

M 0095

alysis Report

Sat 02-15-97 01:29:53 PM

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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	-.0005	-.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						

40036

Analysis Report

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bw -5.0000

lem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	-.20564	-.0002	.0029	3.450	.0006
Dev	.99602	.0001	.0002	.055	.0006
RSD	484.35	42.04	5.657	1.594	101.6

1	-1.3122	-.0001	.0031	3.483	.0013
2	.07602	-.0003	.0029	3.480	.0004
3	.61922	-.0003	.0028	3.386	.0001

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
igh	10.000	.0500	.0200		
bw	-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	29840	--	--	--	--	--	--
Dev	214.1863	--	--	--	--	--	--
RSD	.7177938	--	--	--	--	--	--

1	29608	--	--	--	--	--	--
2	29880	--	--	--	--	--	--
3	30031	--	--	--	--	--	--

M 0027

Analysis Report

Sat 02-15-97 01:37:38 PM

page 1

Method: PROFCLP2 Sample Name: LCSW

Operator:

Run Time: 02/15/97 13:30:29

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	967.11	47.97	474.98	2.514	2.512	2.488	44.44
SD	.59	.07	4.28	.006	.001	.004	.10
SRSD	.06151	.1535	.90154	.2425	.0220	.1410	.2310
#1	967.30	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
Avg	2.365	2.307	2.393	2.469	46.20	79.54	45.35
SD	.007	.006	.003	.001	.13	.06	.09
SRSD	.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
Avg	2.355	81.40	2.326	440.56	440.03	440.21	961.34
SD	.004	.10	.005	2.70	.89	1.49	8.39
SRSD	.1555	.1289	.2342	.61282	.20319	.33809	.87250
#1	2.353	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	2.355	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	Se1950	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	468.37	951.09	966.45	476.07	464.53	2863.	2.452
SD	3.53	4.82	10.17	3.66	4.90	9.	.002
SRSD	.75312	.50655	1.0526	.76939	1.0548	.3155	.0663
#1	464.39	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						

K 0028

Analysis Report

Sat 02-15-97 01:37:38 PM

page 2

Low 400.00

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	464.85	2.392	2.454	63.81	2.423
SD	1.66	.004	.004	.10	.003
SRSD	.35701	.1618	.1453	.1605	.1166

#1	463.79	2.396	2.458	63.91	2.426
#2	464.00	2.388	2.451	63.71	2.421
#3	466.76	2.393	2.455	63.82	2.423

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	600.00	3.000	3.000		
Low	400.00	2.000	2.000		

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	28593	--	--	--	--	--	--
SD	57.44588	--	--	--	--	--	--
SRSD	.2009122	--	--	--	--	--	--
#1	28649	--	--	--	--	--	--
#2	28534	--	--	--	--	--	--
#3	28595	--	--	--	--	--	--

0089

alysis Report

Sat 02-15-97 01:44:55 PM

page 1

thod: PROFCLP2 Sample Name: LCSS

Operator:

n Time: 02/15/97 13:37:46

mmment:

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 0210

Analysis Report

Sat 02-15-97 01:52:12 PM

page 1

Method: PROFCLP2 Sample Name: ~~XXX219~~

Run Time: 02/15/97 13:45:03

Operator:

Comment: 9702033 2/17/97 COZ

Mode: CONC Corr. Factor: 1

860216
mm2/24k7

Elem	Ag	Al	As1890	B	Ba	Be	Ca
nits	ppb	ppm	ppb	ppm	ppm	ppm	ppm
vge	6.3802	1.896	4.5615	-.0008	.0074	.0008	.3537
Dev	.3896	.006	1.8815	.0003	.0002	.0001	.0037
RSD	6.1060	.3247	41.247	40.99	2.716	16.71	1.042
1	6.8201	1.902	3.3235	-.0005	.0076	.0010	.3580
2	6.0789	1.894	3.6344	-.0011	.0074	.0008	.3516
3	6.2415	1.890	6.7267	-.0008	.0073	.0007	.3516

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
nits	ppm	ppm	ppm	ppm	ppm	ppm	ppm
vge	.0006	.0016	.0350	.0077	8.672	.2482	.2348
Dev	.0001	.0001	.0002	.0002	.022	.0097	.0029
RSD	21.55	6.143	.6629	2.975	.2574	3.912	1.230
1	.0007	.0015	.0353	.0079	8.693	.2593	.2382
2	.0006	.0016	.0348	.0074	8.649	.2438	.2331
3	.0005	.0016	.0350	.0076	8.674	.2414	.2333

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
nits	ppm	ppm	ppm	ppb	ppb	ppb	ppb
vge	.0169	.1602	.0190	8.7129	6.8112	7.4449	1.9093
Dev	.0002	.0046	.0004	1.3571	.3664	.6452	.8189
RSD	1.294	2.898	2.131	15.576	5.3788	8.6665	42.892
1	.0171	.1653	.0183	10.191	6.9847	8.0528	1.1490
2	.0168	.1593	.0186	7.5231	6.3904	6.7680	2.7764
3	.0167	.1561	.0194	8.4247	7.0586	7.5139	1.8025

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
nits	ppb	ppb	ppb	ppb	ppb	ppm	ppm
vge	.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	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
3	-1.2304	.51500	2.4449	-3.3615	-.16685	6.828	.1154

Elem	Tl1908	V	Zn	Si2881	Mo2020
nits	ppb	ppm	ppm	ppm	ppm
vge	2.3619	.0099	.0181	17.14	.0096
Dev	.8455	.0003	.0001	.13	.0006
RSD	35.796	3.399	.4601	.7441	5.763
1	3.3311	.0102	.0182	17.23	.0102
2	1.7754	.0101	.0181	16.99	.0097
3	1.9793	.0096	.0181	17.20	.0090

4 0101

Analysis Report

Sat 02-15-97 01:59:30 PM

page 1

Method: PROFCLP2 Sample Name: ~~XXX219D~~

Operator:

Run Time: 02/15/97 13:52:21

Comment: 97020330 2/17/97 CGZ

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	6.3920	2.059	3.0498	-0.0012	.0065	.0004	.1362
SD	.4617	.003	.9627	.0007	.0001	.0001	.0014
SRSD	7.2229	.1345	31.564	54.69	1.938	16.37	1.041

#1	6.9010	2.058	4.0449	-0.0005	.0066	.0004	.1375
#2	6.2745	2.062	2.9812	-0.0015	.0064	.0004	.1364
#3	6.0003	2.057	2.1233	-0.0018	.0064	.0003	.1347

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0007	.0177	.0049	6.553	.2255	.1495
SD	.0000	.0004	.0002	.0002	.013	.0085	.0025
SRSD	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
Avg	.0094	.1353	.0046	6.5392	5.2539	5.6823	.88556
SD	.0002	.0013	.0008	1.4827	1.0288	.2641	.64090
SRSD	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
Avg	.64727	2.0730	.29226	-5.2114	3.5718	6.560	.1530
SD	1.8719	1.1285	.69964	.5075	2.9161	.523	.0004
SRSD	289.19	54.440	239.37	9.7384	81.642	7.979	.2721

#1	-1.4903	.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
Avg	-.73386	.0094	.0171	19.52	.0024
SD	.72958	.0001	.0001	.04	.0001
SRSD	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

97020330

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XXX219S

Operator:

In Time: 02/15/97 13:59:38

Comment: 9702033S 2/17/97 C.02

Code: CONC Corr. Factor: 1

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2/24/97

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	55.820	4.458	1884.8	.0016	2.063	.0493	.1393
SDev	.167	.011	16.0	.0005	.001	.0001	.0004
SRSD	.29887	.2517	.84707	29.23	.0480	.2948	.3102
#1	56.001	4.450	1868.2	.0021	2.063	.0492	.1389
#2	55.786	4.454	1886.1	.0015	2.063	.0492	.1397
#3	55.673	4.471	1900.0	.0012	2.064	.0494	.1395

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0500	.4965	.2210	.2650	7.695	.2287	.1546
SDev	.0003	.0019	.0006	.0003	.021	.0012	.0028
SRSD	.5433	.3910	.2946	.1143	.2759	.5329	1.825
#1	.0498	.4948	.2203	.2654	7.678	.2294	.1514
#2	.0499	.4961	.2212	.2649	7.688	.2273	.1567
#3	.0503	.4986	.2216	.2648	7.718	.2295	.1555

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.5159	.1443	.5127	494.35	484.03	487.47	450.69
SDev	.0016	.0009	.0033	2.93	1.68	2.06	1.99
SRSD	.3016	.6359	.7386	.57200	.34644	.42209	.44083
#1	.5145	.1446	.5099	491.22	482.12	485.15	449.31
#2	.5156	.1440	.5112	495.11	484.66	488.14	449.30
#3	.5176	.1458	.5170	496.72	485.29	489.10	452.97

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1794.0	442.72	454.67	1802.2	1789.9	7.375	.0832
SDev	5.8	2.70	2.89	3.8	7.8	.651	.0008
SRSD	.32499	.60913	.63545	.20889	.43580	8.828	.9145
#1	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
#3	1800.7	444.01	457.44	1804.3	1798.9	6.625	.0823

Elem	Tl1908	V	Zn	Si2381	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	1893.4	.5093	.5173	28.70	.0027
SDev	8.1	.0009	.0016	.23	.0003
SRSD	.42946	.1847	.3123	.8130	12.23
#1	1885.1	.5084	.5159	28.53	.0030
#2	1893.7	.5093	.5170	28.62	.0023
#3	1901.3	.5103	.5191	28.97	.0028

M 0103

alysis Report

Sat 02-15-97 02:14:05 PM

page 1

thod: PROFCLP2 Sample Name: ~~XXX319L~~

Operator:

n Time: 02/15/97 14:06:56

mmment: 9702033L 2/17/97 CGZ

de: CONC Corr. Factor: 1

BLO 219L
mm 2/24/97

Item	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.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

Item	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0002	.0070	.0011	1.724	.0499	.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	.0005	.0070	.0011	1.741	.0551	.0337
#2	.0000	-.0001	.0068	.0008	1.714	.0371	.0312
#3	.0002	.0001	.0071	.0013	1.717	.0571	.0342

Item	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avge	.0034	.0245	.0040	-.17312	2.3469	1.5065	.63722
Dev	.0001	.0012	.0001	1.24850	1.2855	.6903	.72250
RSD	3.555	4.913	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	1.8378	.90757	1.1347

Item	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avge	1.0421	2.6138	-.35006	-.37292	1.7481	1.174	.0231
Dev	.4032	1.4414	.49141	1.66503	.2508	.986	.0004
RSD	38.694	55.148	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

Item	Tl1908	V	Zn	Si2881	Mo2000
Units	ppb	ppm	ppm	ppm	ppm
Avge	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 0104

Analysis Report

Sat 02-15-97 02:21:22 PM

page 1

Method: PROFCLP2 Sample Name: XX2225
 In Time: 02/15/97 14:14:13
 Comment: 9702041 2/17/97 C-62
 Mode: CONC Corr. Factor: 1

132333X
 num 2/24/97

Operator:

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.05065	-.0127	1.2223	.2300	.0287	.0002	17.36
SD	.14245	.0019	1.2043	.0005	.0002	.0000	.07
SRSD	281.25	14.53	96.533	.2300	.5386	13.31	.4098
#1	-.02229	-.0146	2.1668	.2294	.0289	.0002	17.27
#2	.07549	-.0109	1.6339	.2303	.0267	.0002	17.38
#3	-.20514	-.0127	1.13392	.2303	.0285	.0002	17.41

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0059	.0001	.0015	4.549	69.20	17.01
SD	.0001	.0002	.0004	.0002	.010	.18	.04
SRSD	454.9	2.710	346.5	13.93	.2117	.2541	.2423
#1	.0001	.0061	.0000	.0013	4.538	69.37	16.97
#2	-.0000	.0060	.0006	.0018	4.554	69.21	17.03
#3	-.0001	.0058	-.0002	.0015	4.555	69.02	17.04

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.4072	37.14	.0266	-.59053	-.52053	-.53013	.90029
SD	.0009	.05	.0003	.62995	.52998	.23615	.94236
SRSD	.2123	.1246	1.633	106.67	105.87	53.978	104.67
#1	.4062	37.14	.0271	.12243	-.95100	-.59316	.51096
#2	.4076	37.19	.0262	-.82212	.08340	-.21772	1.9749
#3	.4073	37.10	.0265	-1.0720	-.63414	-.77951	.21498

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.1935	-.03753	1.3680	5.2362	-.81771	-.6413	-.0004
SD	1.1658	2.12495	.7003	.1914	1.67792	1.9643	.0001
SRSD	97.266	5662.2	51.188	3.6555	205.20	306.3	30.62
#1	2.3557	-1.9059	1.7172	5.3021	.88436	-1.370	-.0004
#2	1.2155	2.2741	1.8251	5.3860	-.86712	1.583	-.0003
#3	.02438	-.48072	.56184	5.0206	-2.4704	-2.137	-.0005

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	3.2917	-.0004	.5570	61.13	.0023
SD	.7254	.0005	.0017	.06	.0001
SRSD	22.038	107.9	.3099	.1030	4.902
#1	3.8121	-.0005	.5551	61.06	.0022
#2	3.5987	.0001	.5575	61.17	.0024
#3	2.4632	-.0008	.5584	61.16	.0023

H 0205

Analysis Report

Sat 02-15-97 02:28:39 PM

page 1

Method: PROFCLP2 Sample Name: XXXX24

Run Time: 02/15/97 14:21:30

Operator:

Comment: 9702042 2/17/97 CCZ

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	290.39	68.13	222.32	.1985	.3561	.0048	41.75
SD	.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
Avg	-.0067	.0337	.6096	.3227	357.2	24.04	21.50
SD	.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
Avg	1.493	33.60	.1603	74.545	65.154	31.622	3.6425
SD	.000	.04	.0011	.864	2.373	1.699	2.4850
RSD	.0282	.1270	.6582	1.1586	2.7363	2.0318	68.223
#1	1.497	33.55	.1613	73.596	65.084	31.259	1.5709
#2	1.497	33.62	.1596	75.284	67.561	33.473	2.9588
#3	1.498	33.63	.1614	74.756	62.317	30.133	6.3978

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sr	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	27.276	7.5112	1.7106	7.7385	37.030	-60.19	2.020
SD	.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	37.916	-60.66	2.018
#2	26.369	8.9035	-.00955	12.473	33.307	-61.15	2.021
#3	28.166	9.7235	5.2363	4.5286	39.967	-58.77	2.022

Elem	Tl1908	V	Zn	512381	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	11.956	.3054	4.373	1285.	.1296
SD	.569	.0004	.003	1.	.0005
RSD	4.7632	.1344	.0745	.0578	.4026
#1	12.407	.3051	4.376	1285.	.1294
#2	11.316	.3052	4.370	1284.	.1292
#3	12.144	.3059	4.374	1285.	.1302

M 0106

Analysis Report

Sat 02-15-97 02:37:24 PM

page 1

Method: PROFCLP2 Sample Name: CCV2

Operator:

Run Time: 02/15/97 14:30:16

Comment:

Code: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	1016.1	50.54	496.73	2.597	2.637	2.527	45.86
SD	.7	.09	7.42	.013	.017	.031	.74
SRSD	.06752	.1796	1.4940	.5128	.6381	1.230	1.617
#1	1016.7	50.46	505.25	2.612	2.618	2.563	46.72
#2	1015.4	50.64	491.70	2.586	2.644	2.508	45.42
#3	1016.1	50.52	493.23	2.593	2.649	2.511	45.45

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
Avg	2.450	2.386	2.480	2.584	48.37	86.77	47.08
SD	.047	.030	.030	.015	.70	.87	.49
SRSD	1.922	1.257	1.202	.5972	1.446	.9991	1.035

#1	2.504	2.421	2.514	2.557	49.16	85.77	47.64
#2	2.426	2.369	2.461	2.592	48.04	87.28	46.79
#3	2.420	2.366	2.463	2.594	47.90	87.26	46.81

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
Avg	2.440	85.35	2.416	445.89	456.44	452.92	1002.0
SD	.023	.06	.037	11.63	11.51	3.81	8.0
SRSD	.9607	.0724	1.521	2.6083	2.5214	.84066	.79537

#1	2.467	85.28	2.459	432.90	469.39	457.24	992.97
#2	2.425	85.37	2.398	449.43	452.53	451.49	1008.0
#3	2.428	85.40	2.392	455.34	447.39	450.04	1005.1

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
Avg	492.60	1003.3	1001.4	491.00	493.40	2960.	2.560
SD	2.90	16.6	19.7	13.83	10.53	46.	.008
SRSD	.58981	1.6529	1.9703	2.8153	2.1341	1.539	.2953

#1	494.73	1021.3	978.59	475.20	504.48	3013.	2.569
#2	493.78	998.40	1012.3	496.94	492.21	2929.	2.554
#3	469.30	989.70	1012.7	500.87	483.53	2940.	2.558

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	550.00						

Analysis Report

Sat 02-15-97 02:37:24 PM

page 2

Low 450.00

Item	Tl1908	V	Zn	Si2831	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	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

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	550.00	2.750	2.750		
Low	450.00	2.250	2.250		

IntStd	1	2	3	4	5	6	7
Code	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Item	Y	--	--	--	--	--	--
Avlen	371.030	--	--	--	--	--	--
Avg	28088	--	--	--	--	--	--
SDev	471.1639	--	--	--	--	--	--
RSD	1.677472	--	--	--	--	--	--
#1	28630	--	--	--	--	--	--
#2	27859	--	--	--	--	--	--
#3	27775	--	--	--	--	--	--

M 0128

Analysis Report

Sat 02-15-97 02:44:42 PM

page 1

Method: PROFCLP2 Sample Name: CCVL2

Operator:

In Time: 02/15/97 14:37:33

Comment:

Mode: CONC Corr. Factor: 1

Item	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	.27931	.0131	.06763	.0004	.0012	.0011	-.0069
SD	.14406	.0054	1.0462	.0001	.0001	.0001	.0036
RSD	51.487	41.30	1547.0	19.01	11.39	10.52	52.34
#1	.31107	.0177	.37863	.0003	.0014	.0012	-.0031
#2	.12268	.0144	-1.0988	.0004	.0012	.0011	-.0073
#3	.40568	.0071	.92305	.0005	.0011	.0010	-.0103

Errors	Ag	Al	As1890	B	Ba	Be	Ca
High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Item	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0012	.0008	2.592	.0615	.0086
SD	.0002	.0001	.0003	.0002	.018	.0046	.0024
RSD	20.24	14.76	29.24	22.72	.7097	7.423	27.94
#1	.0013	.0009	.0011	.0010	2.613	.0659	.0113
#2	.0010	.0009	.0009	.0007	2.584	.0568	.0077
#3	.0008	.0011	.0016	.0006	2.580	.0618	.0068

Errors	Cd	Co	Cr	Cu	Fe	K	Mg
High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	2.750	NOCHECK	NOCHECK
					2.250		

Item	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.0011	2.587	.0010	.52661	-.25363	.00654	.63913
SD	.0001	.018	.0004	1.9485	.97510	.26567	1.2337
RSD	13.06	.6899	39.21	370.02	384.45	4063.3	193.02
#1	.0013	2.606	.0011	-.30444	-.29140	-.29539	-.71426
#2	.0011	2.584	.0014	-.86362	.73980	.20454	1.7008
#3	.0010	2.570	.0006	2.7529	-1.2093	.11046	.93087

Errors	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
High	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Low	NOCHECK	2.750	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
		2.250					

Item	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	.65829	.58137	.66751	2.7991	-.41344	.3136	.0014
SD	1.9035	.60298	2.1395	1.0510	2.42286	.6955	.0002
RSD	291.37	103.72	320.52	37.549	579.02	219.6	15.56
#1	2.2016	1.1514	-1.6462	3.0747	1.7653	-.4274	.0016
#2	-1.4719	-.04986	2.5744	1.6377	-3.0248	.4428	.0015
#3	1.2302	.64255	1.0743	3.6849	.00422	.9253	.0011

Errors	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

M 02 99

bw

lem	Tl1908	V	Zn	Si2831	Mo2020
nts	ppb	ppm	ppm	ppm	ppm
vge	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

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
bw					

Std	1	2	3	4	5	6	7
ode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	28490	--	--	--	--	--	--
Dev	204.8914	--	--	--	--	--	--
RSD	.7191778	--	--	--	--	--	--
1	28256	--	--	--	--	--	--
2	28574	--	--	--	--	--	--
3	28539	--	--	--	--	--	--

Analysis Report

Sat 02-15-97 02:52:00 PM

page 1

Method: PROFCLP2 Sample Name: CCB2

Operator:

Run Time: 02/15/97 14:44:51

Comment:

Mode: CONC Corr. Factor: 1

Item	Ag	Al	As1690	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	.06173	-.0123	-.71526	.0009	.0004	.0004	-.0261
SD	.28119	.0035	1.79090	.0003	.0001	.0001	.0019
RSD	455.51	28.56	250.39	31.25	19.84	25.81	7.136
#1	.34294	-.0086	-1.1042	.0012	.0005	.0005	-.0242
#2	.06171	-.0126	-2.2797	.0008	.0003	.0004	-.0261
#3	-.21945	-.0156	1.2382	.0006	.0004	.0003	-.0279

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

Item	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0001	.0001	-.0001	.0132	.0123	-.0083
SD	.0000	.0001	.0002	.0003	.0064	.0083	.0010
RSD	12.48	57.35	176.3	213.9	48.78	66.93	11.99
#1	.0004	.0000	-.0001	.0002	.0196	.0045	-.0094
#2	.0004	.0001	.0001	-.0003	.0132	.0210	-.0075
#3	.0003	.0001	.0003	-.0003	.0063	.0116	-.0080

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

Item	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.0004	.0024	.0002	-1.2666	.24953	-.25498	1.5945
SD	.0001	.0039	.0004	1.7333	1.0738	1.21879	1.0121
RSD	18.08	161.7	218.5	136.85	430.34	478.00	63.474
#1	.0004	.0057	.0006	-3.2319	-.54334	-1.4383	1.2499
#2	.0005	.0033	.0003	-.61173	-.17962	-.32313	2.7340
#3	.0003	-.0018	-.0003	.04383	1.4715	.99646	.79977

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

Item	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	-1.2031	1.1057	1.8391	-.25395	-1.6774	-.4738	.0005
SD	1.1515	.6778	1.8937	.76506	1.3460	.1184	.0001
RSD	95.713	79.391	103.02	301.26	80.244	25.00	18.13
#1	-2.5313	.79762	1.4752	-1.1302	-3.2312	-.6060	.0006
#2	-.48357	.42340	3.8870	.28152	-.86596	-.3773	.0004
#3	-.59453	2.0959	.15218	.08681	-.93511	-.4381	.0004

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	5.0000						

P 111

-5.0000

	Tl1908	V	Zn	Si2881	Mo2020
ppb	ppm	ppm	ppm	ppm	ppm
1.7299	.0004	.0005	-.0202	.0005	
.4765	.0003	.0001	.0162	.0002	
ASD	27.542	85.47	12.43	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	--	--	--	--	--	--
RPED	.0567341	--	--	--	--	--	--
#1	28810	--	--	--	--	--	--
#2	28780	--	--	--	--	--	--
#3	28783	--	--	--	--	--	--

Reference 287835297 287835297 287835297 287835297 287835297 287835297 287835297 287835297

ASD 1.7299 27.542 85.47 12.43 80.18 35.90 43.96

#3 -.04888 .0223 2.7081 .1247 .0413 .0002

Elem Ca Co Cr Cu Fe K Mn

Units ppm ppm ppm ppm ppm ppm ppm

Avge 1.7299 27.542 85.47 12.43 80.18 35.90 43.96

15.13 19.00 19.04 23.83 15.13

0112

Method: PROFCLP2 Sample Name: ~~XXXXXX~~ *6224X num 2/24/97* Operator:
 Run Time: 02/15/97 14:52 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 9702043 Cust. Smpl. ID.: Cust. ID.:

2/17/97 C2

*Paper Jam
 Reprinted
 Remaining
 Run
 num 2/24/97*

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	.07175	.0006	1.2036	.1247	.0414	.0002
Dev	.13963	.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	Tl	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: ~~XXXXZ25~~ 860025 Mon 2/24/97 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.:
 2/17/97 062

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	5.3942
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	Tl1908	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			

Method: PROFCLP2 Sample Name: ~~XXX225D~~ ~~PLC225D~~ *11/17/97* Operator:
 Run Time: 02/15/97 15:06 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020440 Cust. Smpl. ID.: Cust. ID.:

2/17/97 CCZ

ems	Ag	Al	As1890	B	Ba	Be
units	ppb	ppm	ppb	ppm	ppm	ppm
ave	92.653	85.74	135.37	.7549	.2240	.0062
dev	.15972	.1128	.79161	.0027	.0001	0
SD	.17239	.1316	.5848	.3522	.066	.4137
ems	Ca	Cd	Co	Cr	Cu	Fe
units	ppm	ppm	ppm	ppm	ppm	ppm
ave	20.79	.0009	.0319	.5634	.5198	235.4
dev	.0974	.0002	.0003	.0016	.0011	1.066
SD	.4687	23.21	.9979	.2884	.2141	.4527
ems	K	Mg	Mn	Na	Ni	2203/1
units	ppm	ppm	ppm	ppm	ppm	ppb
ave	36.92	104.7	1.037	66.95	.2460	72.080
dev	.0288	.3907	.003	.1395	.0006	1.22
SD	.0781	.3731	.2902	.2084	.2295	1.6925
ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
units	ppb	ppb	ppb	ppb	ppb	ppb
ave	81.400	78.297	5.4011	9.8073	8.3584	3.9243
dev	2.1192	1.3816	.75266	1.1613	1.1074	.79955
SD	2.6034	1.7646	13.935	11.841	13.249	20.375
ems	1960/1	1960/2	Sn	Ti	Ti1908	V
units	ppb	ppb	ppm	ppm	ppb	ppm
ave	2.2676	13.571	-44.21	1.438	6.8915	.2453
dev	1.9706	.97328	1.368	.0016	.74001	.0008
SD	86.902	7.1718	3.094	.1118	10.738	.3073
ems	Zn	Si2881	Mo2020			
units	ppm	ppm	ppm			
ave	4.046	1318.	.1091			
dev	.0144	4.281	.0011			
SD	.356	.3247	.9353			

Method: PROFCLP2 Sample Name: ~~XXXX2255~~ Operator:
 Run Time: 02/15/97 15:14 Filename: DEC0122
 Code: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020445 Cust. Smpl. ID.: Cust. ID.:
 2117197062

elems	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
elems	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
elems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	37.17	101.3	1.475	65.50	.6965	504.58
Dev	.0483	.0992	.001	.1414	.0015	3.6661
RSD	.1299	.0974	.0691	.2158	.2221	.72655
elems	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	.78608	.30475	1.0618	.66808
elems	1960/1	1960/2	Sn	Ti	Ti1908	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
elems	Zn	Si2881	Mo2020			
nits	ppm	ppm	ppm			
vge	4.399	1439.	.1183			
Dev	.0038	.6451	.0009			
RSD	.0853	.0448	.7964			

Method: PROFCLP2

Sample Name: XXX225L

800225L MAN 2/24/97

Operator:

Run Time: 02/15/97 15:21

Filename: DEC0122

Code: CONC

Type: S

Corr. Factor:

1.00000

Lab ID.: Q702044L

Cust. Smpl. ID.:

Cust. ID.:

2117197062

elems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	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
elems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	4.226	.0004	.0069	.1216	.1029	44.41
Dev	.0064	.0001	.0002	.0004	.0003	.0228
RSD	.1514	37.62	2.835	.2891	.2961	.0514
elems	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
Dev	.011	.0126	.0001	.0566	.0005	.60836
RSD	.1542	.0587	.0536	.4236	.9159	3.7067
elems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	18.781	17.993	2.6833	2.0724	1.6429	3.2022
Dev	1.5324	.84851	1.3027	1.5475	.48094	1.8142
RSD	8.1594	4.7159	48.551	74.671	29.274	56.653
elems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	2.7282	1.7447	-3.253	.3394	6.1479	.0515
Dev	2.7508	1.1845	1.324	.0006	1.7662	.0001
RSD	100.83	67.895	16.04	.173	28.729	.1291
elems	Zn	Si2881	Mo2020			
nits	ppm	ppm	ppm			
vge	.8601	295.0	.0240			
Dev	.0008	.2426	.0005			
RSD	.0897	.0822	2.09			

Method: PROFCLP2 Sample Name: ~~XX225A~~ B225A *11/17/97* Operator:
 Run Time: 02/15/97 15:28 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 9702045 Cust. Smpl. ID.: Cust. ID.:
 211719702

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Age	.07417	8.683	5.1909	.9141	.0737	.0024
Dev	.77527	.0148	.43244	.0039	.0002	0
RSD	1045.2	.1704	8.3308	.4294	.2595	1.082
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Age	21.69	.0012	.0236	.0238	.0379	48.56
Dev	.0621	0	.0002	.0003	.0001	.1206
RSD	.2862	2.179	.7615	1.373	.3801	.2484
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Age	37.43	124.7	.8326	72.86	.1892	.11679
Dev	.041	.2533	.0019	.1853	.0008	1.7065
RSD	.1096	.2031	.2309	.2551	.4356	1461.1
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Age	2.2183	1.5188	.76593	1.0795	.73176	.78254
Dev	1.367	.5509	.89422	1.4057	.54576	1.0895
RSD	61.624	36.272	116.75	130.22	74.582	139.23
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Age	3.7911	-.27475	-13.89	.0000	3.6599	-.0005
Dev	4.8376	2.6717	.8452	.0002	1.0222	.0002
RSD	127.6	972.42	6.087	566.9	27.93	48.44
Items	Zn	Si288.1	Mo2020			
Units	ppm	ppm	ppm			
Age	5.137	216.2	.0051			
Dev	.0111	.3989	.0002			
RSD	.2153	.1845	4.088			

Method: PROFCLP2 Sample Name: ~~XX225AD~~ 3235401117 Operator:
 Run Time: 02/15/97 15:35 Filename: DEC0122
 Code: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020450 Cust. Smpl. ID.: Cust. ID.:
 2117197662

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	.07212	3.610	4.1958	.9022	.0728	.0024
Dev	.23459	.0193	1.4668	.0011	.0001	0
RSD	325.38	.2241	34.959	.12	.134	1.453
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.73	.0012	.0238	.0242	.0375	48.58
Dev	.013	.0002	.0002	.0005	.0001	.0677
RSD	.0597	13.77	.6746	1.863	.4151	.1395
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	37.02	124.7	.8315	72.47	.1900	-.67934
Dev	.0385	.0683	.0006	.1363	.0005	.94528
RSD	.1041	.0548	.0688	.188	.2663	139.15
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5061	.77866	.91524	1.8221	-.93931	1.8407
Dev	1.1655	.48811	1.6932	.59635	1.9937	1.5573
RSD	77.385	62.685	184.99	32.73	212.24	84.605
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	5.3664	.05214	-13.17	-.0004	2.0611	-.0006
Dev	3.4132	.81527	1.208	0	.98432	.0003
RSD	63.604	1563.6	9.169	.038	47.757	44.63
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	5.135	215.0	.0044			
Dev	.0021	.1992	.0005			
RSD	.0417	.0926	11.37			

Method: PROFCLP2 Sample Name: ~~XX22546~~ ~~62254XS~~ 217147 Operator:
 In Time: 02/15/97 15:43 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020458 Cust. Smp. ID.: Cust. ID.:
 217147C62

ems	Ag	Al	As1890	B	Ba	Be
nts	ppb	ppm	ppb	ppm	ppm	ppm
ge	49.650	10.59	2022.1	.8955	2.177	.0541
dev	.12374	.0254	5.9788	.0029	.0026	.0001
RSD	.24924	.24	.29566	.3272	.1193	.229
ems	Ca	Cd	Co	Cr	Cu	Fe
nts	ppm	ppm	ppm	ppm	ppm	ppm
ge	21.42	.0500	.4943	.2211	.2962	49.01
dev	.0567	.0003	.0008	.0002	.0002	.1354
RSD	.2646	.5063	.1635	.1053	.0695	.2764
ems	K	Mg	Mn	Na	Ni	2203/1
nts	ppm	ppm	ppm	ppm	ppm	ppb
ge	36.96	123.2	1.312	71.83	.6685	464.52
dev	.0208	.3261	.0022	.1679	.0018	1.2378
RSD	.0562	.2647	.1678	.2338	.2665	.26645
ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nts	ppb	ppb	ppb	ppb	ppb	ppb
ge	467.01	466.18	512.07	2048.2	508.95	513.62
dev	2.0483	1.4761	2.0877	14.477	3.7387	1.3921
RSD	.4386	.31664	.40769	.70681	.73458	.27103
ems	1960/1	1960/2	Sn	Ti	Ti1908	V
nts	ppb	ppb	ppm	ppm	ppb	ppm
ge	2064.8	2040.0	-14.88	-0.0003	1921.4	.4969
dev	5.9052	18.921	.6143	0	4.6889	.0011
RSD	.286	.9275	4.129	14.53	.24403	.2189
ems	Zn	Si2881	Mo2020			
nts	ppm	ppm	ppm			
ge	5.551	212.4	.0037			
dev	.0124	.5035	.0001			
RSD	.2236	.2371	2.609			

Method: PROFCLP2 Sample Name: ~~XX225AL~~ 6225AL 0047 Operator:

Run Time: 02/15/97 15:50 Filename: DEC0122

Code: CONC Type: S Corr. Factor: 1.00000

Lab ID.: 9702045L Cust. Smpl. ID.: Cust. ID.:

2117197062

lems	Ag	Al	As1890	B	Ba	Be
nits	ppb	ppm	ppb	ppm	ppm	ppm
vge	-.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
lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	4.400	.0003	.0052	.0052	.0090	10.18
Dev	.0559	.0001	.0003	.0001	.0003	.1448
RSD	1.269	20.04	5.254	1.573	3.747	1.422
lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	7.136	25.34	.1765	14.62	.0414	-.29803
Dev	.0852	.3329	.0022	.2163	.0006	3.0193
RSD	1.193	1.314	1.274	1.48	1.434	1013.1
lems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	-.04516	-.12895	2.3083	1.5144	.64425	3.1386
Dev	1.7952	.29233	.97877	.33196	2.9457	.2089
RSD	3974.5	226.7	42.403	54.936	457.23	6.6561
lems	1960/1	1960/2	Sn	Tl	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	3.3485	.59830	-2.463	-.0001	4.4922	.0003
Dev	2.508	2.1981	1.336	0	1.7895	.0003
RSD	74.898	367.39	54.25	28.8	39.836	98.68
lems	Zn	Si2881	Mo2020			
nits	ppm	ppm	ppm			
vge	1.102	44.27	.0011			
Dev	.0137	.6112	.0002			
RSD	1.246	1.381	15.18			

Method: PROFCLP2 Sample Name: ~~XXX223~~ 60223, Wm 2/2-97 Operator:
 In Time: 02/15/97 15:57 Filename: DEC0122
 Code: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Q702040 Cust. Smpl. ID.: Cust. ID.:
 2/17/97
 CG2

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Value	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
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Value	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
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Value	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
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Value	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
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Value	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
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Value	k9.775	1840.	.3485			
Dev	.0176	1.022	.0008			
RSD	.1799	.0556	.2311			

Method: PROFCLP2 Sample Name: CCV3 Operator:
 Run Time: 02/15/97 16:06 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	1024.0	50.72	504.22	2.618	2.639	2.560
Dev	1.1449	.0804	.50925	.0042	.0045	.0041
RSD	.11181	.1586	.101	.1604	.171	.1612
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.45	2.487	2.415	2.509	2.591	49.36
Dev	.1118	.0036	.0046	.0031	.0043	.0752
RSD	.2408	.1443	.1884	.1254	.1679	.1523
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	86.44	47.64	2.468	85.46	2.444	462.83
Dev	.0708	.0441	.0028	.054	.0044	2.8026
RSD	.0819	.0925	.1116	.0631	.1781	.60555
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	460.21	461.08	1021.5	500.34	1006.0	1029.2
Dev	.85556	.74045	3.9626	2.2845	2.4429	6.3414
RSD	.1859	.16059	.38793	.45657	.24282	.61616
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	515.04	493.00	2993.	2.598	488.82	2.506
Dev	3.7004	4.8831	16.65	.0014	2.7101	.0019
RSD	.71847	.99048	.5564	.0561	.55442	.0742
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	2.592	52.06	2.540			
Dev	.0023	.0859	.0045			
RSD	.0892	.1649	.1785			

Method: PROFCLP2 Sample Name: CCVL3 Operator:
 Run Time: 02/15/97 16:14 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

elems	Ag	Al	As1890	B	Ba	Be
nits	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
elems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	-.0042	.0011	.0011	.0015	.0008	12.757
Dev	.0039	.0002	.0001	.0003	.0001	.0734
RSD	93.32	16.95	11.67	22.96	10.75	2.663
elems	K	Mg	Mn	Na	Ni	2203/1
nits	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	33.07	1526.4
elems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	.41616	.25801	1.7574	.13755	1.3340	1.9653
Dev	.73749	.4715	1.2086	1.3385	1.0491	1.2999
RSD	177.21	182.74	68.77	973.01	78.644	66.042
elems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	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
elems	Zn	Si2881	Mo2020			
nits	ppm	ppm	ppm			
vge	.0110	.1091	.0031			
Dev	.0006	.0593	.0013			
RSD	5.565	54.38	41.04			

Method: PROFCLP2

Sample Name: CCB3

Operator:

Run Time: 02/15/97 16:21

Filename: DEC0122

Mode: CONC

Type: S

Corr. Factor:

1.00000

Lab ID.:

Cust. Smpl. ID.:

Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	.09174	-.0048	.17509	.0006	.0004	.0005
Dev	.19733	.0068	1.0909	.0001	.0002	.0001
RSD	215.11	143.5	623.06	23	45.83	22.45
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0266	.0004	.0005	.0004	-.0000	.0588
Dev	.0021	.0001	.0003	.0004	.0002	.0165
RSD	7.782	35.11	71.18	92.42	585.2	28.09
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	.0248	-.0065	.0005	.0064	.0003	-.62389
Dev	.0229	.0063	.0003	.0055	.0009	1.7842
RSD	92.48	97.07	58.05	84.82	263.5	285.98
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18380	-.32993	2.1747	-.88903	1.0215	2.7499
Dev	1.4852	.40454	1.3772	1.6685	2.197	1.3006
RSD	808.06	122.62	63.329	187.67	215.06	47.298
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	2.0586	-2.3611	.1297	.0007	1.7331	.0004
Dev	2.4403	2.2244	1.174	.0003	.83983	.0007
RSD	118.54	94.212	905.5	37.53	48.458	168.3
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	.0010	.0333	.0004			
Dev	.0002	.0794	.0007			
RSD	17.56	238.3	193.3			

thod: PROFCLP2 Sample Name: ~~xxx223~~ *B60223, non 2/24/97* 222222
 n Time: 02/15/97 16:28 Filename: DEC0122 Operator: *Needs further*
 de: CONC Type: S Corr. Factor: 1.00000 *distillation*
 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	k1.266	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	k15.316
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	Tl1908	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 item 2/24/97

Method: PROFCLP2 Sample Name: XXX219P Operator:
 Run Time: 02/15/97 16:36 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020330 Cust. Smpl. ID.: Cust. ID.:

2/17/97
C02

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Age	27.330	1.922	23.205	-.0017	.0065	.0103
Dev	.29211	.0175	2.3152	.0004	0	.0001
RSD	1.0688	.9124	9.9767	26.98	.5472	.7565
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Age	.3402	.0102	.1025	.0558	.0605	3.862
Dev	.0033	.0002	.0007	.0004	.0001	.0873
RSD	.9611	1.911	.6582	.7285	.2278	.9856
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Age	.2317	.2238	.0481	.1438	.1017	13.767
Dev	.0075	.0039	.0004	.0017	.0009	.23452
RSD	3.354	1.734	.859	1.157	.5521	1.7035
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Age	11.174	12.038	121.94	7.8078	120.76	122.53
Dev	.22614	.13762	1.8614	1.2696	2.2794	1.7058
RSD	2.0238	1.1433	1.5265	16.261	1.8876	1.3922
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Age	2.9386	10.238	4.799	.1163	18.945	.1123
Dev	1.7577	2.7776	.323	.0016	.34484	.0009
RSD	59.813	27.129	6.732	1.362	1.8203	.841
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Age	.0611	18.05	.0076			
Dev	.0008	.2441	.0004			
RSD	1.33	1.353	5.363			

Method: PROFCLP2 Sample Name: ~~XXX225P~~ ^{B6025P, 2/24/97} Operator:
 In Time: 02/15/97 16:43 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 97020448 Cust. Smpl. ID.: Cust. ID.:
 2117197062

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	114.49	95.11	159.03	.7567	.2450	.0172
Dev	.19409	.118	2.1122	.0034	.0001	.0001
RSD	.16952	.1241	1.3281	.443	.0506	.4466
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.82	.0093	.1312	.5991	.6046	236.1
Dev	.0669	0	.0004	.0017	.0005	.7031
RSD	.3214	.4399	.3248	.2799	.0906	.2977
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	37.75	104.7	1.078	66.94	.3324	80.163
Dev	.1059	.2813	.0023	.2322	.0012	3.8688
RSD	.2805	.2687	.2131	.3468	.3546	4.8261
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.071	88.773	135.37	19.485	139.35	133.38
Dev	1.5416	.26474	1.8906	1.6239	3.5126	2.8864
RSD	1.6564	.29822	1.3966	8.3345	2.5208	2.164
Items	1960/1	1960/2	Sn	Tl	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	11.162	23.639	-43.74	1.666	26.054	.3538
Dev	7.6214	3.9095	1.23	.0008	1.7262	.0001
RSD	68.279	16.538	2.812	.0466	6.6252	.0441
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	4.099	1427.	.1151			
Dev	.0118	3.686	.0003			
RSD	.2852	.2582	.2993			

Method: PROFCLP2 Sample Name: XX225AP *222222 intr 2/24/97 Not reported* Operator:
 Run Time: 02/15/97 16:50 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: 9702045P Cust. Smpl. ID.: Cust. ID.:

2/17/97 CGZ

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	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
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.03	.0114	.1229	.0454	.0919	49.35
Dev	.0647	.0002	.0009	.0006	.0002	.1787
RSD	.2938	1.99	.7399	1.383	.2502	.3621
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	37.45	126.3	.8742	73.21	.2741	3.9938
Dev	.0621	.3128	.0018	.0324	.0007	1.656
RSD	.1658	.2476	.211	.0442	.2455	41.464
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.4317	6.9542	130.71	10.969	128.10	132.02
Dev	.89097	.67692	2.0115	1.9021	.89764	3.0647
RSD	10.567	9.7339	1.5388	17.34	.70075	2.3214
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	14.483	9.2147	-13.70	.0008	23.378	.1028
Dev	3.37	2.2254	.6607	.0001	.62446	.0002
RSD	23.269	24.151	4.823	10.99	2.6712	.1643
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	5.244	218.9	.0054			
Dev	.0111	.4606	.0002			
RSD	.2124	.2104	3.539			

Method: PROFCLP2 Sample Name: 9703628 Operator:
 In Time: 02/15/97 16:57 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Age	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
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Age	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
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Age	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
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Age	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
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Age	.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
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Age	.0413	90.54	.0004			
Dev	.0006	.0727	.0002			
RSD	1.509	.0803	40.08			

Method: PROFCLP2 Sample Name: 9703820 Operator:
 Run Time: 02/15/97 17:05 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab 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
lems	Ca	Cd	Co	Cr	Cu	Fe
nits	ppm	ppm	ppm	ppm	ppm	ppm
vge	6.904	.0000	.0010	.0017	.0703	.2325
Dev	.0207	.0001	.0004	.0001	.0002	.0058
RSD	.2998	251.7	34.77	7.897	.2522	2.507
lems	K	Mg	Mn	Na	Ni	2203/1
nits	ppm	ppm	ppm	ppm	ppm	ppb
vge	4.426	2.922	.0336	35.29	.0045	.53152
Dev	.0152	.0019	.0001	.083	.0003	1.3935
RSD	.3429	.0635	.2222	.2352	5.982	262.17
lems	2203/2	Pb2203	Sb206S	Se1960	206S/1	206S/2
nits	ppb	ppb	ppb	ppb	ppb	ppb
vge	1.9141	1.4542	.15176	.46532	.42434	.01520
Dev	2.0174	.88174	.18442	3.1052	2.553	1.1822
RSD	105.4	60.636	121.52	667.31	608.69	7776.7
lems	1960/1	1960/2	Sn	Ti	Tl1908	V
nits	ppb	ppb	ppm	ppm	ppb	ppm
vge	4.0123	-1.3059	-1.068	.0008	.87996	.0075
Dev	4.5226	2.4137	.9704	.0001	.42037	.0003
RSD	112.72	184.82	90.87	17.94	47.772	3.656
lems	Zn	Si2881	Mo2020			
nits	ppm	ppm	ppm			
vge	.0360	98.82	.0003			
Dev	.0003	.1475	.0001			
RSD	.7071	.1493	29.61			

Method: PROFCLP2 Sample Name: CRIF Operator:
 In Time: 02/15/97 17:12 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Age	19.822	-.0168	19.390	.1994	.0000	.0104
Dev	.43832	.0017	.23562	.0002	.0001	.0001
RSD	2.2113	10.33	1.2152	.1254	381.1	.4912
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Age	-.0252	.0104	.1008	.0205	.0514	-.0029
Dev	.0008	.0001	.0008	.0004	.0002	.0022
RSD	3.313	1.178	.8031	1.816	.3847	76.76
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Age	.0095	-.0052	.0311	.0210	.0839	4.2166
Dev	.0197	.0047	.0002	.0069	.0009	1.6193
RSD	207.8	91.16	.5818	32.76	1.106	38.403
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Age	6.9032	6.0089	126.48	9.4346	126.59	126.43
Dev	1.415	.52123	1.0066	1.1714	1.154	2.085
RSD	20.497	8.6743	.79584	12.417	.9116	1.6491
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Age	9.6184	9.3424	-.7255	.0001	21.026	.1014
Dev	4.108	1.5042	1.288	.0001	.87241	.0003
RSD	42.71	16.101	177.6	142.2	4.1493	.2658
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Age	.0428	2.405	.0202			
Dev	.0001	.0246	.0002			
RSD	.2906	1.023	.8297			

thod: PROFCLP2 Sample Name: ICSAF Operator:
 n Time: 02/15/97 17:19 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	1.1146	533.6	2.9379	-.0002	.0077	.0005
ev	.15402	.673	3.5411	.0006	0	0
SD	13.818	.1261	120.53	272.8	.5356	5.602
ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	511.9	.0011	.0015	-.0017	.0082	211.4
ev	.5954	.0002	.0001	.0003	.0001	.1816
SD	.1163	18.5	3.744	15.37	.9416	.0859
ems	K	Mg	Mn	Na	N1	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0018	516.3	-.0056	.0494	.0024	-13.874
ev	.0075	.5242	.0004	.0022	.0001	2.763
SD	418.3	.1014	6.477	4.393	4.625	19.915
ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	3.9186	-.67176	-2.6980	1.0585	1.1418	-4.6155
ev	.89335	1.0806	2.6667	3.549	1.451	3.3053
SD	15.094	160.86	98.838	335.28	127.08	71.613
ems	1960/1	1960/2	Sn	T1	T11908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	-1.3814	2.2762	-53.08	-.0149	2.2594	-.0022
ev	4.1868	4.4637	1.947	.0002	3.0151	.0005
SD	303.07	196.1	3.669	1.296	133.45	25.1
ems	Zn	Si2881	Mo2020			
its	ppm	ppm	ppm			
ge	.0132	.1179	-.0004			
ev	.0002	.0376	.0017			
SD	1.244	31.86	443.9			

Method: PROFCLP2 Sample Name: ICSABF Operator:
 Run Time: 02/15/97 17:27 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	1113.5	532.8	1030.3	1.076	.5665	.5251
Dev	1.7165	1.289	4.4944	.0028	.0008	.0016
RSD	.15415	.242	.43622	.2572	.1326	.3027
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	506.6	.9489	.4603	.4968	.5838	209.7
Dev	1.974	.0055	.0008	.0017	.0009	.9583
RSD	.3896	.5838	.17	.343	.1553	.4571
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	.0171	513.3	.4859	.0550	.9251	872.04
Dev	.0099	2.515	.0013	.0007	.004	.62421
RSD	57.63	.4899	.2739	1.26	.4299	.07158
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	899.30	890.23	-6.5600	996.74	-4.0274	-7.8249
Dev	5.0843	3.1993	3.7449	1.8505	4.9613	3.1528
RSD	.56536	.35937	57.088	.18565	123.19	40.292
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	1010.1	990.06	-49.94	-.0145	907.87	.5031
Dev	3.7052	3.9672	.9787	.0002	3.4107	.0009
RSD	.36681	.4007	1.96	1.588	.37568	.1785
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	1.054	1.094	1.021			
Dev	.0037	.0343	.005			
RSD	.3548	3.138	.4879			

Method: PROFCLP2 Sample Name: CCV4 Operator:
 Run Time: 02/15/97 17:34 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	1023.1	50.61	504.87	2.616	2.638	2.563
Dev	1.3652	.1037	.79705	.0085	.0041	.0029
RSD	.13343	.2049	.15787	.3253	.1545	.1117
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.39	2.488	2.412	2.512	2.589	48.93
Dev	.057	.0037	.0043	.0011	.0032	.0524
RSD	.123	.1497	.1801	.0435	.1241	.1072
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Avg	86.56	47.82	2.467	85.21	2.444	462.65
Dev	.1339	.038	.0019	.2038	.0063	2.5653
RSD	.1547	.0794	.075	.2392	.2582	.55446
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	459.64	460.64	1013.2	499.16	1000.3	1019.7
Dev	2.5144	2.1628	1.2427	9.0106	3.7185	1.284
RSD	.54704	.46952	.12264	1.8051	.37172	.12592
Items	1960/1	1960/2	Sn	Ti	Tl1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Avg	508.36	494.57	2982.	2.592	493.73	2.505
Dev	9.7807	10.585	5.595	.0016	1.0902	.0029
RSD	1.924	2.1402	.1876	.0636	.2208	.1163
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Avg	2.586	51.35	2.542			
Dev	.0037	.0847	.0017			
RSD	.1446	.165	.0685			

Method: PROFCLP2 Sample Name: CCVL4 Operator:
 Run Time: 02/15/97 17:41 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Items	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Age	.46771	.0812	-.33871	.0001	.0014	.0013
Dev	.53211	.021	1.9143	.0005	.0002	.0001
RSD	113.77	25.88	565.17	777.1	13.76	11.73
Items	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Age	.0608	.0015	.0010	.0012	.0008	2.600
Dev	.0162	.0003	.0002	.0005	.0001	.0136
RSD	26.58	17.79	23.58	41.88	13.71	.5226
Items	K	Mg	Mn	Na	Ni	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppb
Age	.0652	.0754	.0011	2.557	.0014	-1.1502
Dev	.0153	.0189	.0002	.0085	.0002	.91925
RSD	23.43	25.13	19.02	.3336	16.88	79.92
Items	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Age	.55118	-.01499	1.3782	.63762	2.8859	.62502
Dev	.60901	.55885	.84851	1.6733	1.4659	.98095
RSD	110.49	3727.7	61.567	263.2	50.795	156.95
Items	1960/1	1960/2	Sn	Ti	Ti1908	V
Units	ppb	ppb	ppm	ppm	ppb	ppm
Age	.85640	.52798	.8057	.0014	2.6511	.0014
Dev	2.7552	1.5713	.4855	.0002	.60128	.0002
RSD	321.72	297.6	60.26	12.35	22.68	16.68
Items	Zn	Si2881	Mo2020			
Units	ppm	ppm	ppm			
Age	.0275	-.1183	.0031			
Dev	.0003	.0353	.0014			
RSD	1.197	29.83	44.78			

Method: PROFCLP2 Sample Name: CCB4 Operator:
 Run Time: 02/15/97 17:49 Filename: DEC0122
 Mode: CONC Type: S Corr. Factor: 1.00000
 Sample ID.: Cust. Smpl. ID.: Cust. ID.:

ems	Ag	Al	As1890	B	Ba	Be
its	ppb	ppm	ppb	ppm	ppm	ppm
ge	.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
ems	Ca	Cd	Co	Cr	Cu	Fe
its	ppm	ppm	ppm	ppm	ppm	ppm
ge	-.0137	.0005	.0006	.0006	-.0001	.0047
ev	.0068	.0001	.0002	.0002	.0003	.005
SD	49.83	22.53	31.75	38.57	473	105.7
ems	K	Mg	Mn	Na	Ni	2203/1
its	ppm	ppm	ppm	ppm	ppm	ppb
ge	.0314	.0112	.0006	.0038	.0011	.25586
ev	.0062	.0078	.0001	.0043	.0001	.31469
SD	19.89	69.26	27.66	114	8.506	122.99
ems	2203/2	Pb2203	Sb2068	Se1960	2068/1	2068/2
its	ppb	ppb	ppb	ppb	ppb	ppb
ge	-.81627	-.45888	.07808	.90244	-.77537	.50372
ev	.60863	.33272	1.1194	1.642	1.5441	2.2515
SD	74.562	72.507	1433.4	181.95	199.15	446.97
ems	1960/1	1960/2	Sn	Ti	Tl1908	V
its	ppb	ppb	ppm	ppm	ppb	ppm
ge	2.8300	-.06031	.8069	.0004	1.6863	.0004
ev	3.4256	2.3189	.9636	.0002	1.8362	.0003
SD	121.05	3844.8	119.4	57.29	108.89	85.55
ems	Zn	Si2881	Mo2020			
its	ppm	ppm	ppm			
ge	.0006	.0159	.0009			
ev	.0001	.0449	.0003			
SD	17.34	282	31.74			

Items	608946	608921	608906	608914	608926	608927	608903
SDev	1.1176	13.478	8.9423	20.1159	9.2261	5.485	1.0011
RSD	1521.2	165.94	357.75	343.60	304.24	18.92	317.0
#1	-.55634	.89084	.35907	4.9156	-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
Items	608906	608917	608955	608931	608920		
SDev	4.8717	.0022	.003	.18	.0002		
RSD	122630	10006	12292	69619	30058		
#3	9.6079	.0043	1.254	69.08	.0059		

Actual
paper

Actual
paper
Jann
num 2/24/97

[illegible]

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	1.042	67.27	.2515	73.667	84.191	80.687	7.4763
Stdev	.001	.04	.0005	.357	.985	.683	2.4594
95SD	.0604	.0524	.1852	.48458	1.1697	.84626	33.029
#1	1.042	67.39	.2519	73.826	83.943	80.489	8.0158

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	9.8458	10.644	5.8942	3.0521	13.237	-43.74	1.640
SD	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	1.15426	11.664	-43.51	1.639
#2	10.8337	8.0561	9.3465	5.5923	13.534	-43.77	1.640
#3	10.9288	9.111	9.3465	5.5923	13.534	-43.94	1.640
Avg	9.5457	9.623	9.3807	4.0767	12.911	-43.74	1.640
SD	1.1709	1.2486	1.039	1.121	1.145		
RSD	12.2699	12.984	11.003	27.511	8.869		
#1	6.3334	12.488	4.036	1423	1155		
#2	3.355	2488	4.036	1423	1141		

Rbap
 wavlen 3717030 --
 Avge 28804 --
 SDev 134.3863 --
 SRSD .4665596 --

#1 28935 --
 #2 28809 --
 #3 28667 --

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Analysis Report 297 Sample Name: XXX225D
 SDev 1.180
 SRSD 627.289 84.315 134.428 753.2 2239 4123 4687
 #3 92.478 85.87 135.16 7579 2241 4063 20.87

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0319	.5634	.5193	235.4	36.92	104.7
SDev	230002	.0008	.5615	.5011	234.23	36.78	104.3
#1	-.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	72.030	81.400	78.297	5.4011
SDev	.003	.14	.0006	1.220	2.119	1.382	.7527
SRSD	12093	66084	.2455	126935	226034	127556	137985
#1	1.037	66.87	.2455	72.115	81.999	78.709	5.1869
#3	1.040	67.11	.2466	73.280	82.189	79.223	6.2377

SRSD 11.641 13.249 20.375 66.902 7.1718 3.094 1.1118
 #2 916036 9.2056 4.5486 192003 12.486 48.00 1.438

Elem	Tl1908	V	Sn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
SRSD	603906	.0003	42066	13147	.0001
#1	6.2879	.2444	4.031	1314.	.1079
#2	7.7171	.2457	4.047	1318.	.1099
#3	6.6696	.2456	4.059	1323.	.1097

Analysis Report

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IntStd	1	2	3	4	5	6	7
Wavlen	2317030	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avge	29038	--	--	--	--	--	--
SDev	91.53435	--	--	--	--	--	--
SRSD	.3152176	--	--	--	--	--	--
#1	26033	--	--	--	--	--	--

Analysis Report

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page 1

Main Name: PROTEIN 297 Sample Name: XXX2255

Operator:

As	Ba	Be	Ca
ppm	ppm	ppm	ppm
#1	139.08	98.37	1984.5
#2	139.08	98.37	1984.5
#3	139.08	98.37	1984.5

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	.0452	.4773	.7234	.7628	224.1	37.13	101.9
#2	.0455	.4775	.7256	.7617	224.4	37.15	101.3
#3	.0454	.4772	.7230	.7648	223.3	37.22	101.7
Avg	1.475	65.50	69.65	508.78	513.61	512.00	320.61
SD	.001	.14	.0015	3.67	1.73	2.26	2.50
RSD	.0691	.2153	.2221	.72656	.33879	.44414	.78609
#1	1.475	65.39	.6953	508.78	513.61	512.00	320.61
#2	1.475	65.45	.6963	502.03	511.81	508.56	319.19
#3	1.473	65.66	.6960	502.93	510.14	507.74	315.74

As	Ba	Be	Ca
ppm	ppm	ppm	ppm
#1	139.08	98.37	1984.5
#2	139.08	98.37	1984.5
#3	139.08	98.37	1984.5

Elem	Tl	V	Zn	Si	Mo
Units	ppb	ppm	ppm	ppm	ppm
#1	1793.7	.7041	4.399	1439.	.1183
#2	1793.7	.7041	4.399	1439.	.1183
#3	1793.5	.7039	4.395	1439.	.1187

Analysis Report

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IntStd	1	2	3	4	5	6	7
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppm
#1	.2228	13.43	.0550	15.717	20.211	18.715	3.8958
#2	.2226	13.34	.0541	16.846	17.164	17.058	2.8480
#3	.2227	13.32	.0542	16.675	18.968	18.205	1.3060
Avg	1.5475	.4809	1.8142	2.7508	1.1845	1.324	.0005
SD	4.671	29.274	56.653	100.83	67.895	16.04	.1730
RSD	3.6917	1.6623	5.0104	5.9025	2.5376	-7.448	.3396
#1	3.6917	1.6623	5.0104	5.9025	2.5376	-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	.3338
Elem	Tl	V	Zn	Si	Mo		
Units	ppb	ppm	ppm	ppm	ppm		
Avg	6.1479	.0515	.3501	295.0	.0240		
SD	1.7562	.0001	.0008	.0322	.0005		
RSD	28.729	.1291	.0397	.0322	2.090		
#1	6.8325	.0515	.3502	295.8	.0244		

K 0140

Analysis Report

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IntStd	1	2	3	4	5	6	7
Heaven	2904560	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
#1	29028	--	--	--	--	--	--
#2	29051	--	--	--	--	--	--
#3	29071	--	--	--	--	--	--

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IntStd	1	2	3	4	5	6	7
Heaven	2904560	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
#1	29028	--	--	--	--	--	--
#2	29051	--	--	--	--	--	--
#3	29071	--	--	--	--	--	--
Elem	291960	205371	205371	195071	195072	Sn	21
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.0793	1.3176	1.3255	3.7911	1.27475	-13.39	.0000
StDev	1.4057	.54677	1.0895	4.8376	2.67175	.95	.0002
StDev	130.22	44.582	139.23	127.60	972.42	6.087	556.9
#1	.44352	.54420	.96093	8.0063	-3.3326	-12.95	.0002
#2	2.6903	1.3466	1.7719	4.8579	1.6084	-14.60	-1.0001
#3	.10411	.30451	-.33513	-1.4909	.89993	-14.10	-1.0000
Elem	211908	V	Sn	Si2881	Mo2020		
Units	ppb	ppm	ppm	ppm	ppm		
Avg	3.6599	-1.0005	5.137	216.2	.0051		
StDev	1.0222	.0002	.011	.4	.0002		
StDev	27.930	48.44	.2153	.1845	4.063		
#1	4.0235	-1.0003	5.133	215.9	.0054		
#2	4.5055	-1.0007	5.129	216.0	.0050		
#3	4.4506	-1.0004	5.150	215.5	.0051		

Analysis Report

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IntStd	1	2	3	4	5	6	7
Heaven	2904560	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
#1	29028	--	--	--	--	--	--
#2	29051	--	--	--	--	--	--
#3	29071	--	--	--	--	--	--

M 0141

#1	.0010	.0010	.0010	.0010	.0010	.0010	.0010
Elem	Mn	Na	Na	Na	Na	Na	Na
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.8315	72.47	.1900	-1.67934	1.5061	.77867	.91525
SDev	.0006	.14	.0005	.94528	1.1655	.48811	1.6931
SRSD	.0668	.1380	.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	.17163	.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
Avg	1.8221	-.93932	1.6407	5.3664	.05214	-13.17	-.0004
SDev	.5964	1.99366	1.5573	3.4132	.81528	1.21	.0000
SRSD	32.730	212.24	34.605	63.604	1563.6	9.169	.0330
#1	1.7393	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	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.8221	-.93932	1.6407	5.3664	.05214	-13.17	-.0004
SDev	.5964	1.99366	1.5573	3.4132	.81528	1.21	.0000
SRSD	32.730	212.24	34.605	63.604	1563.6	9.169	.0330
#1	1.7393	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

Analysis Report

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page 2

IntStd	1	2	3	4	5	6	7
Elem	Se1960	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avg	19.56003	--	--	--	--	--	--
SDev	.0676384	--	--	--	--	--	--
SRSD	297	--	--	--	--	--	--
Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.8221	-.93932	1.6407	5.3664	.05214	-13.17	-.0004
SDev	.5964	1.99366	1.5573	3.4132	.81528	1.21	.0000
SRSD	32.730	212.24	34.605	63.604	1563.6	9.169	.0330
#1	1.7393	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	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.8221	-.93932	1.6407	5.3664	.05214	-13.17	-.0004
SDev	.5964	1.99366	1.5573	3.4132	.81528	1.21	.0000
SRSD	32.730	212.24	34.605	63.604	1563.6	9.169	.0330
#1	1.7393	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	Tl1908	V	In	812681	M12020
Units	ppb	ppm	ppm	ppm	ppm
SRSD	124403	.0139	5.551	212.8	2.0036
#1	1920.6	.4977	5.563	212.8	.0036
#2	1926.5	.4974	5.553	212.4	.0036
#3	1917.2	.4957	5.529	211.8	.0036

Analysis Report

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page 2

IntStd	1	2	3	4	5	6	7
Count	20419	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
SDev	74.04446	--	--	--	--	--	--
SRSD	.2605560	--	--	--	--	--	--
#2	28303	--	--	--	--	--	--

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page 1

SRSD	1406436	1.795	159403	10041	20003	60006	1.756
#1	-1.07139	1.803	.96782	.1892	.0162	.0006	4.464
#2	-1.15464	1.748	.96782	.1892	.0156	.0006	4.361
#3	.03135	1.749	2.7625	.1892	.0156	.0006	4.375

Elem	Cl	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SRSD	20004	50003	10003	30003	10003	1.0003	25003
#1	.0002	.0049	.0051	.0093	10.11	7.090	25.12
#2	.0003	.0053	.0052	.0087	10.09	7.084	25.17
SRSD	ppm65	ppm62	ppm14	ppm65	ppm45	ppm65	ppm65
#1	.0002	.0002	.0006	3.01932	1.79516	.29234	.9788
#2	.1756	14.44	.0409	2300036	1195438	-134785	1.5255

Elem	Se1960	206671	206672	196071	196072	Se	Tl
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SRSD	1406436	50003	10003	30003	10003	1.0003	25003
#1	.57641	-1.8536	3.3170	4.3712	-1.3136	-1.091	-1.0002
#2	.57641	-1.8536	3.3170	4.3712	-1.3136	-1.091	-1.0002

M 0143

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~~XXXXXXXXXXXX~~ REF CTS297 SampleName: XXX223 Sat 02-15-97 06:04:54 PM page 1

[illegible]

NY 0144

Name: CV3

1	-1.1123	2.2686	4.2516	-1.57856	-1.3791	-1.7306	.0010
2	-2.4347	-1.5152	2.0168	2.5176	-4.9075	1.468	.0008
3	.37983	2.3112	1.9812	4.2369	-1.79660	-1.3480	.0004
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	5.0000						

Analysis Report

Low -5.0000

Elem	Tl1908	V	Zn	S12881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Wge	1.7331	.0004	.0010	.0333	.0004
Dev	.9393	.0007	.0002	.0794	.0007
WSD	48.458	168.3	17.58	238.3	193.3
1	1.3367	.0011	.0012	.0544	.0010
2	2.6973	-1.0003	.0010	.1001	.0006
3	1.1649	.0004	.0009	-1.0545	-1.0004
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	10.000	.0500	.0200		
Low	-10.000	-1.0500	-1.0200		

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

M 0145

Wt %	0.1141304	--	--	--	--	--	--
#1	23499	--	--	--	--	--	--
#2	28557	--	--	--	--	--	--
#3	28502	--	--	--	--	--	--

Analysis Report

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Method: PROFCLP2 Sample Name: XXX023

Operator:

Run Time: 02/15/97 16:28:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	As	Se	Cr	Fe	Ca	Na	Co
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Stdev	1.35	1.07	1.31	1.0009	1.0004	1.0000	1.0000
SRSD	1.17870	1.1352	1.46405	1.9614	1.1937	1.7160	1.3409

#1	K756.28	54.73	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	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm
Stdev	1.0002	1.0003	1.0007	1.19	1.04	1.024
SRSD	1.2548	1.1579	1.3712	1.2644	1.6213	1.1828

#1	K.0674	.0207	K.8799	K.2602	S30.09	20.09	K8.727
#2	K.0671	.0205	K.8734	K.2592	S30.13	20.04	K8.678
#3	K.0670	.0212	K.8767	K.2605	S29.82	20.02	K8.705

Elem	As	Se	Cr	Fe	Ca	Na	Co
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Stdev	1.0004	1.0001	1.0015	1.0003	1.0004	1.0000	1.0000
SRSD	1.2227	1.0694	1.4113	1.2227	1.1937	1.7160	1.3409

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Stdev	1.0004	1.0001	1.0015	1.0003	1.0004	1.0000	1.0000
SRSD	1.2227	1.0694	1.4113	1.2227	1.1937	1.7160	1.3409

146

1.99 1.001
 1.66791 4.9972 18.342 17.763

#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	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	11.76558	2.2004	2.1996	507.6	507.7
#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

Analysis Report

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Std	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avlen	371.030	--	--	--	--	--	--
Avg	30319	--	--	--	--	--	--
SD	152.3627	--	--	--	--	--	--
SD	30170	--	--	--	--	--	--
SD	30519	--	--	--	--	--	--

1.99 1.001
 1.66791 4.9972 18.342 17.763

#1	2.1468	1.933	23.108	1.0011	1.0055	1.0103	1.3423
#2	2.1528	1.931	20.940	1.0019	1.0065	1.0103	1.3420
#3	2.1528	1.931	20.940	1.0019	1.0065	1.0103	1.3420
SD	1.2696	2.28	1.71	1.7577	2.778	1.323	1.0016
SD	1.2696	1.2696	1.2696	1.2696	1.2696	1.2696	1.2696
#3	6.4681	119.16	120.82	4.8708	7.2651	4.488	1.145

Elem	Tl1908	V	Zn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avg	18.945	1.1123	1.0611	18.05	1.0076
SD	1.345	1.0009	1.0008	1.24	1.0004
SD	1.345	1.1123	1.0611	18.05	1.0076
#3	18.931	1.1112	1.0601	17.7	1.0072

Analysis Report

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NOTUSED NOTUSED NOTUSED NOTUSED NOTUSED

NOTUSED
 0147

Elem 1
 #1 23669 == == == == == ==

===== 287 287 287 287 287 287 287 287 Sat 02-15-97 04:50:31 PM page 1

#1	.0094	.1308	.5986	.6044	236.3	37.65	104.6
Elem	M0093	M1316	M5978	M6042	236.3	37.65	104.6
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	1.078	66.94	.3324	80.163	93.071	88.773	135.37
SD	.002	.23	.0012	3.869	1.542	.265	1.89
SSD	.2131	.3468	.3546	4.8261	1.6564	.29822	1.3966
#1	1.077	66.76	.3332	75.875	94.800	88.498	137.09
#2	1.076	66.67	.3311	81.221	92.575	88.794	133.34
#3	1.081	67.20	.3329	83.392	91.839	89.026	135.68
Avg	1.078	66.84	.3324	80.163	93.071	88.773	135.37
SD	.002	.23	.0012	3.869	1.542	.265	1.89
SSD	.2131	.3468	.3546	4.8261	1.6564	.29822	1.3966
#1	1.077	66.76	.3332	75.875	94.800	88.498	137.09
#2	1.076	66.67	.3311	81.221	92.575	88.794	133.34
#3	1.081	67.20	.3329	83.392	91.839	89.026	135.68
Avg	1.078	66.84	.3324	80.163	93.071	88.773	135.37
SD	.002	.23	.0012	3.869	1.542	.265	1.89
SSD	.2131	.3468	.3546	4.8261	1.6564	.29822	1.3966
Elem	M11908	M	M	M12381	M02020		
Units	ppm	ppm	ppm	ppm	ppm		
Avg	16.054	.3538	4.099	1427.	.1151		
SD	1.125	.0002	.012	4.	.0003		
SSD	6.6262	.0441	.2882	.2592	.2996		
#2	24.996	.3538	4.093	1426.	.1151		

Analysis Report

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Elem	Count	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
1	20451	--	--	--	--	--	--
2	20451	--	--	--	--	--	--
3	20451	--	--	--	--	--	--
4	20451	--	--	--	--	--	--

2297 26-50 #40 25AF Sat 02-15-97 04:57:49 PM page 1

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	.8742	73.21	.2741	3.6938	3.4317	8.9542	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	5.7096	8.5639	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
Ave	10.969	128.10	132.02	14.483	9.2147	-13.70	.0003
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
#2	838546	123.81	131.38	15.849	6.8262	-12.26	.6668

Elem	Ti1903	V	Sn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Ave	23.378	.1028	3.244	218.9	.0054
SDev	.624	.0002	.011	.5	.0022
%RSD	2.6712	.1643	.2124	2104	3.539
#1	23.388	.1030	3.252	218.4	.0056
#2	23.397	.1028	3.249	218.0	.0053
#3	23.748	.1027	3.231	218.3	.0053

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1	2	3	4	5	6	7
NotUSED	NotUSED	NotUSED	NotUSED	NotUSED	NotUSED	NotUSED
130.71	132.00	131.75	128.40	130.71	132.00	131.75
2.01	1.5388	1.5388	1.5388	1.5388	1.5388	1.5388
132.00	131.75	131.75	128.40	132.00	131.75	131.75
131.75	128.40	128.40	132.00	131.75	131.75	131.75
128.40	132.00	131.75	128.40	132.00	131.75	131.75

M 0143

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Conclusions

PLAN	T11908	V	IN	S12661	M00020
SP005	170632	20035	20566	20467	18003
F1	.74659	.0037	.0420	90.55	.0004
F2	.48142	.0039	.0412	90.46	.0003
F3	.4044	.0039	.0402	90.30	.0003

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DEPT. OF THE ARMY
OFFICE OF THE CHIEF OF STAFF
WASHINGTON, D. C. 20315

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[illegible]

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
Avg	1.46532	.42435	.01520	4.0123	-1.3060	-1.069	.0009
SD	3.1052	2.5830	1.1822	4.5226	2.4137	.970	.0001
SSD	667.31	603.69	7776.7	112.72	184.82	90.87	17.94
#1	13.9288	3.164548	1.93758	6.6684	4.76657	2.5813	.0068
Elem	Tl1908	V	Zn	Si2881	Mo2020		
Units	ppb	ppm	ppm	ppm	ppm		
Avg	.87997	.0075	.0360	98.82	.0003		
SD	.42037	.0003	.0003	.15	.0001		
SSD	47.772	3.656	.7071	.1493	29.61		
#1	13.0885	.0075	.0359	98.90	.0003		

Analysis Report

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Elem	Units	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Avg	28530	--	--	--	--	--	--
SD	55.63928	--	--	--	--	--	--
SSD	.1950216	--	--	--	--	--	--
#1	28467	--	--	--	--	--	--
#2	28551	--	--	--	--	--	--
#3	28511	--	--	--	--	--	--

Analysis Report

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Elem	Co	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0008	.0205	.0514	-.0029	.0095	-.0052
SD	.0001	.0008	.0004	.0002	.0022	.0197	.0047
SSD	1.173	.6031	1.316	.3847	76.76	207.8	91.16
#2	.0103	.1019	.0205	.0513	-.0098	.02162	-.00095

8859 70812 35329 19909

#1	.0313	.0277	.0845	2.3622	8.2582	5.2852	128.18
#2	.0309	.0213	.0828	4.9371	7.0163	6.5243	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
ppb	97315	229.59	229.93	229.89	229.93	229.95	229.91
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	-0.0000

Elem	Se1960	2068/1	2068/2	1960/1	1960/2	Sn	Ti
ppb	97315	229.59	229.93	229.89	229.93	229.95	229.91
RSD	12.417	.91160	1.6491	42.710	16.101	177.6	142.2

#1	21.392	.1016	.0429	2.424	.0204
#2	21.655	.1015	.0427	2.377	.0200
#3	20.030	.1011	.0427	2.414	.0202

Analysis Report

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ModStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Waven	371.030	--	--	--	--	--	--
Avg	28100	--	--	--	--	--	--
RSD	16888318	==	==	==	==	==	==

Analysis Report
 Ref: 02-15-97 Sample Name: ICSAF
 Comment: C-1 Factor: 1

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 Operator:

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Elem	As	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	1.1146	533.6	2.9379	1.0000	1.0077	1.0005	511.9
SDev	.1540	.7	5.5411	1.0000	1.0000	1.0000	1.163
RSD	13.819	.1261	120.53	2.2.8	.5356	5.602	.1163
#1	.08576	533.6	.39381	1.0001	.0076	.0005	512.5
#2	.12552	533.6	.4229	1.0009	.0077	.0004	511.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0015	1.0017	.0082	211.4	.0013	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	1.0016	.0082	211.6	1.0024	517.3
#2	.0009	.0015	1.0015	.0083	211.2	.0104	516.3
#3	.0011	.0015	1.0015	.0082	211.3	.0026	516.9
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0015	1.0017	.0082	211.4	.0013	516.8
SDev	.0002	.0001	.0003	.0001	.2	.0075	.5
RSD	18.50	3.744	15.37	.9416	.0859	418.3	.1014

0152

Item	Units	ppb	ppb	ppb	ppb	ppb	ppm
#1	3.4973	1.5295	-4.9751	-2.0145	5.6978	-5.6978	-1.0149
#2	2.6913	2.3596	-1.1451	3.3553	2.3590	-52.05	-1.0149
#3	-3.0130	-1.46370	-7.7264	-4.5856	-2.2283	-55.32	-1.0150

Item	Units	ppb	ppb	ppb	ppb	ppb	ppm
#1	3.2054	-.0016	.0131	.0835	-.0002		
#2	4.6881	-.0026	.0133	.1121	-.0021		
#3	-1.1153	-.0024	.0130	.1579	.0012		

Item	Units	ppb	ppb	ppb	ppb	ppb	ppm
#1	25489	--	--	--	--	--	--
#2	34.83091	--	--	--	--	--	--
#3	1366486	--	--	--	--	--	--

Report: 02-15-97 Sample Name: 103ABF

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Item	Units	ppb	ppb	ppb	ppb	ppb	ppm
#1	1115.2	533.3	1026.3	1.073	.5653	.5253	503.2

Item	Units	ppb	ppb	ppb	ppb	ppb	ppm
#2	1115.2	533.3	1026.3	1.073	.5653	.5253	503.2

Mg 0153

Elem	70055	70506	70517	70999	71012	71013	71014
#1	.9539	.4605	.4975	.5831	210.3	.0157	514.4
#2	.9499	.4610	.4930	.5846	210.1	.0080	515.2
#3	.9430	.4594	.4948	.5835	208.6	.0276	510.5
Means	89859	89550	89551	89837	89837	898203	898258
SDev	.0013	.0007	.0040	.62	5.03	3.20	3.7449
SRSD	.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	993.62	886.63	-10.824
Means	898964	898214	898219	106071	898962	898994	898145
SDev	1.85	4.9613	5.1528	3.7	3.97	.98	.0002
SRSD	.18566	123.19	40.292	.36681	.40070	1.960	1.583
#1	995.63	-475387	-613386	1002.4	995.48	-49.85	-6146
Means	504988	50064	50054	50034	50020	50020	50020
SDev	.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		

Analysis Report

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Elem	70055	70506	70517	70999	71012	71013	71014
#1	25059	--	--	--	--	--	--
#2	25022	--	--	--	--	--	--
#3	25051	--	--	--	--	--	--

Analysis Report

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Elem	70055	70506	70517	70999	71012	71013	71014
#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	50.65	504.73	2.625	2.637	2.566	46.45

LC Pass 54

Errors	LC Pass						
High	1100.0	55.00	550.00	2.250	2.250	2.250	2.250
Low	900.00	45.00	450.00	2.250	2.250	2.250	2.250
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
SD	0.002	23.22	2.502	52.47	52.70	46.94	121.64
SRSD	0.004	0.004	0.001	0.003	0.05	0.13	0.04
%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
SD	0.002	23.22	2.502	52.47	52.70	46.94	121.64
SRSD	0.004	0.004	0.001	0.003	0.05	0.13	0.04
%RSD	.1497	.1801	.0435	.1241	.1072	.1547	.0794
#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	ppb	ppb
Avge	483.77	1002.3	1018.2	499.95	483.18	2976.	2.593
SD	504.75	1002.7	1020.6	506.03	504.11	2984.	2.590
SRSD	503.97	996.04	1020.2	519.09	496.41	2987.	2.592
%RSD							

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	550.00						

Analysis Report

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Low	450.00				
Elem	Tl1908	V	Sn	Si2881	Mo2020
Units	ppb	ppm	ppm	ppm	ppm
Avge	494.96	2.504	2.582	51.41	2.541
SD	492.90	2.503	2.585	51.25	2.541
SRSD	493.32	2.508	2.590	51.40	2.544
High	550.00	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	--	--	--	--	--	--
SRSD	22123171	--	--	--	--	--	--
#1	28114	--	--	--	--	--	--
#2	28189	--	--	--	--	--	--
#3	28257	--	--	--	--	--	--

Analysis Report

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Method: PROFCLP2 Sample Name: CCVL4

Operator:

Run Time: 02/15/97 17:41:46
Comment: CCCL Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	157771	0812	33872	0001	0014	0013	0608
SD	153212	26216	591434	70005	18002	10003	25189
#1	1.0605	.1027	1.5442	.0006	.0016	.0015	.0771
#2	.03124	.0800	-.27730	.0001	.0014	.0014	.0605
#3	.31143	.0608	.22330	.0004	.0012	.0012	.0448
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Fe	Co	Cr	Cu	Pb	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.79	23.58	41.88	13.71	.5226	23.43	25.13
SD	.0018	.0010	.0018	.0009	2.614	.0827	.0944
#1	.0013	.0007	.0008	.0009	2.593	.0589	.0753
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
High					2.750		
Low					2.250		

Elem	Mn	Na	Ni	2203/1	2203/2	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppb	ppb	ppb	ppb
Avg	.0011	2.557	.0014	-1.1502	.55113	-.01499	1.3782
SD	.0002	.009	.0002	.0193	.60902	.375585	.6485
#1	.0010	2.567	.0011	-1.5515	1.1296	.23720	.98895
#2	.0009	2.551	.0013	-1.8006	-.08438	-.65550	.79413
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		2.750					
Low		2.250					

Elem	Si	Al	Fe	Co	Cr	Cu	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6783	1.4659	.98095	2.7552	1.5713	.4855	.0002
SD	263.20	50.795	156.95	321.72	297.60	60.26	12.35
#1	.36219	3.8126	1.6216	2.5207	-.41601	1.101	.0016
#2	-1.0016	3.6492	-.33953	-2.3239	-.34190	.2453	.0013
#3	2.3523	1.1959	.59309	2.3724	2.3419	1.071	.0013
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Analysis Report

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Elem	Si	Al	Fe	Co	Cr	Cu	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.5511	.0014	.0275	-.1193	.0031	.0014	.0014
SD	.6013	.0002	.0003	.0353	.0014	.0014	.0014
#1	2.2355	.0017	.0275	-.0106	.0019	.0019	.0019
#2	2.4104	.0014	.0273	-.1185	.0019	.0019	.0019
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Waven	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Waven	371.030	--	--	--	--	--	--
Avg	26729	--	--	--	--	--	--
SD	160.1715	--	--	--	--	--	--
#1	29863	--	--	--	--	--	--
#2	16772	--	--	--	--	--	--
#3		--	--	--	--	--	--

M 0156

Sat 02-15-97 05:56:14 PM

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Sample Name: CCB4

Model: CONC Corr. Factor: 1

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Elem	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39	28.49	49.83

Analysis Report

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Elem	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39

Elem	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39

Elem	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39

Elem	Conc	Conc	Conc	Conc	Conc
Ag	181.42	236.3	563.10	75.32	25.39

NOTUSED

H2M LABS, INC.

CLIENT Dec 0122 (for Na,K) * selected num 2/2/97

DATE 2/18/97

TASK: CP1
TSAG1

RESULT FILE: DC122Na.ASC

ANALYST Karen Pani

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICW		26	970204SD	B225AXD Na,K
2	ICB		27	970204SS	B225AXS Na,K
3	CR11		28	970204SL	B225AXL Na,K
4	ICSA1		29	9702040	B60223 Na,K
5	ICSA1		30	CCV3	
6	CCV1		31	CCB3	
7	CCB1		32	970204U	Dilution 1:10 B60223 ~~2/2/97~~ 11/2/97
8	PBW	Na,K Dec 0122	33	97009SS	222222 2/2/97
9	PBS	Na,K	34	CR1F	
10	LCSW	Na,K	35	ICSAF	
11	LCS	Na,K ↓	36	ICSA1F	
12	9702033	B60219 Na,K	37	CCV4	
13	9702033D	B60219D Na,K	38	CCB4	
14	9702033S	B60219S Na,K	39		
15	9702033L	B60219L Na,K	40		
16	9702041	B223AX Na,K	41		
17	9702042	B60224 Na,K Ed 2/2/97	42		
18	CCW2		43		
19	CCB2		44		
20	9702043	B224AX Na,K	45		
21	9702044	B60225 Na,K	46		
22	9702044D	B60225D Na,K	47		
23	9702044S	B60225S Na,K	48		
24	9702044L	B60225L Na,K	49		
25	9702045	B225AX Na,K	50		

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

Standardization Rpt.

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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

M 0161

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

Standardization Rpt.

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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

M 0183

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 AGSBH	.000000 2.00000	.000000 2.00000	-.000000 .000000
Al	308.215	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .000000
As	193.696	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .000000
Ba	493.409	BLANK MULTIH	.000000 10.0000	.000000 10.00000	-.000000 .000001
Be	313.042	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .000000
Ca	317.933	BLANK MULTIH	.000000 10.0000	-.000000 10.0000	.000000 .000000
Cd	226.504	BLANK MULTIH	.000000 10.0000	-.000000 10.0000	.000000 .000000
Co	228.616	BLANK MULTIH	.000000 10.0000	-.000000 10.0000	.000000 .000000
Cr	267.716	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .000000
Cu	324.754	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .000000
Fe	259.940	BLANK MULTIH	.000000 10.0000	.000000 10.0000	-.000000 .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

Analysis Report

QC Standard

Tue 02-18-97 02:34:14 PM

page 1

Method: CLP1 Sample Name: ICV
 Run Time: 02/18/97 14:30:27
 Comment: ICV
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0168

Analysis Report

QC Standard

Tue 02-18-97 02:38:54 PM

page 1

Method: CLP1 Sample Name: ICB
 Run Time: 02/18/97 14:35:07
 Comment: ICB
 Mode: CONC Corr. Factor: 1

Operator:

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

H 0183

Analysis Report

Tue 02-18-97 02:43:37 PM

page 1

Method: CLP1 Sample Name: CRII
Run Time: 02/18/97 14:39:50
Comment: CRII
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.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
Avg	.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
Avg	.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
Avg	.1001	.0399
SDev	.0010	.0007
%RSD	.9586	1.685

#1	.0989	.0393
#2	.1006	.0399
#3	.1006	.0406

M 0170

Analysis Report

QC Standard

Tue 02-18-97 02:48:29 PM

page 1

Method: CLP1 Sample Name: ICSAI
 Run Time: 02/18/97 14:44:42
 Comment: ICSAI
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0171

Analysis Report

QC Standard

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page 1

Method: CLP1 Sample Name: ICSABI
 Run Time: 02/18/97 14:50:31
 Comment: ICSABI
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0172

Analysis Report

QC Standard

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page 1

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					

M 0173

Analysis Report

QC Standard

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page 1

Method: CLP1 Sample Name: CCB1
 Run Time: 02/18/97 15:01:06
 Comment: CCB1
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0174

Analysis Report

QC Standard

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page 1

Method: CLP1 Sample Name: PBW
 Run Time: 02/18/97 15:05:56
 Comment: PBW
 Mode: CONC Corr. Factor: 1

Operator:

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					
		QC Pass					

M 0175

Analysis Report

QC Standard

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page 1

Method: CLP1 Sample Name: PBS
 Run Time: 02/18/97 15:11:52
 Comment: PBS
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.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
Avg	-.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
Avg	.0070	.0020	.0095	.0000	.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					
Avg	.0004	.0027					
SDev	.0009	.0003					
%RSD	205.6	12.34					
#1	-.0003	.0023					
#2	.0001	.0027					
#3	.0014	.0030					
Errors	QC Pass	QC Pass					

M 0276

Analysis Report

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page 1

Method: CLP1 Sample Name: LCSW
Run Time: 02/18/97 15:19:27
Comment: LCSW
Mode: CONC Corr. Factor: 1

Operator:

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

0177

Analysis Report

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page 1

Method: CLP1 Sample Name: LCSS
Run Time: 02/18/97 15:28:23
Comment: LCSS
Mode: CONC Corr. Factor: 1

Operator:

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

M 0173

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702033
Run Time: 02/18/97 15:33:04
Comment: B60219
Mode: CONC Corr. Factor: 1

Operator:

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

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702033D
Run Time: 02/18/97 15:37:40
Comment: B60219D
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.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
Avg	-.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
Avg	.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
Avg	.0093	.0165
SDev	.0005	.0007
%RSD	5.117	4.248

#1	.0096	.0163
#2	.0096	.0173
#3	.0088	.0159

H 0180

Analysis Report

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page 1

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

M 0181

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702033L
Run Time: 02/18/97 15:48:07
Comment: B60219L
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.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
Avg	-.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	.0070
#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
Avg	.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					
Avg	.0027	.0091					
SDev	.0016	.0004					
%RSD	59.03	4.214					
#1	.0045	.0089					
#2	.0020	.0089					
#3	.0016	.0096					

M 0282

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702041
 Run Time: 02/18/97 15:52:54
 Comment: B223AX
 Mode: CONC Corr. Factor: 1

Operator:

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

Analysis Report

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page 1

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
Avg	.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
Avg	.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
Avg	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
Avg	.3125	4.480
SDev	.0006	.005
%RSD	.1932	.1087

#1	.3123	4.481
#2	.3131	4.485
#3	.3120	4.475

M 0181

Analysis Report

QC Standard

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page 1

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
Avg	.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
Avg	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
Avg	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
Avg	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

Analysis Report

QC Standard

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page 1

Method: CLP1 Sample Name: CCB2
 Run Time: 02/18/97 16:07:22
 Comment: CCB2
 Mode: CONC Corr. Factor: 1

Operator:

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

Analysis Report

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page 1

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

H 0187

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702044
Run Time: 02/18/97 16:17:04
Comment: B60225
Mode: CONC Corr. Factor: 1

Operator:

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

M 0288

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702044D
Run Time: 02/18/97 16:21:41
Comment: B60225D
Mode: CONC Corr. Factor: 1

Operator:

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					

H 0189

Analysis Report

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Method: CLP1 Sample Name: 9702044S
Run Time: 02/18/97 16:26:26
Comment: B60225S
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.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
Avg	.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	1.512
#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
Avg	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
Avg	.7040	4.371
SDev	.0022	.014
%RSD	.3117	.3288

#1	.7061	4.382
#2	.7041	4.377
#3	.7017	4.355

Analysis Report

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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

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Analysis Report

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page 1

Method: CLP1 Sample Name: 9702045
 Run Time: 02/18/97 16:35:52
 Comment: B225AX
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.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
Avg	.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
Avg	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
Avg	-.0012	5.148
SDev	.0013	.027
%RSD	109.4	.5181

#1	.0002	5.156
#2	-.0023	5.170
#3	-.0014	5.119

M 0192

Analysis Report

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page 1

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

M 0193

Analysis Report

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Method: CLP1 Sample Name: 9702045S
 Run Time: 02/18/97 16:45:02
 Comment: B225AXS
 Mode: CONC Corr. Factor: 1

Operator:

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

H 0154

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702045L
 Run Time: 02/18/97 16:49:29
 Comment: B225AXL
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0195

Analysis Report

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page 1

Method: CLP1 Sample Name: 9702040
 Run Time: 02/18/97 16:54:07
 Comment: B60223
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0296

Method: CLP1 Sample Name: CCV3
 Run Time: 02/18/97 17:00:40
 Comment: CCV3
 Mode: CONC Corr. Factor: 1

Operator:

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					

Analysis Report

QC Standard

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Method: CLP1 Sample Name: CCB3
 Run Time: 02/18/97 17:10:37
 Comment: CCB3
 Mode: CONC Corr. Factor: 1

Operator:

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	.0001
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

M 0198

Analysis Report

Tue 02-18-97 05:24:24 PM

page 1

Method: CLP1 Sample Name: 9702040
 Run Time: 02/18/97 17:20:37
 Comment: B60223
 Mode: CONC Corr. Factor: 1

Operator:

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	.1540	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

M 0139

Analysis Report

Tue 02-18-97 05:29:00 PM

page 1

Method: CLP1 Sample Name: 9700955
 Run Time: 02/18/97 17:25:13
 Comment: MW103U
 Mode: CONC Corr. Factor: 1

Operator:

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

H 0200

Analysis Report

Tue 02-18-97 05:33:54 PM

page 1

Method: CLP1 Sample Name: CRIF
Run Time: 02/18/97 17:30:06
Comment: CRIF
Mode: CONC Corr. Factor: 1

Operator:

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

M 0201

Analysis Report

QC Standard

Tue 02-18-97 05:39:13 PM

page 1

Method: CLP1 Sample Name: ICSAF
 Run Time: 02/18/97 17:35:26
 Comment: ICSAF
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0292

Analysis Report

QC Standard

Tue 02-18-97 05:44:14 PM

page 1

Method: CLP1 Sample Name: ICSABF
 Run Time: 02/18/97 17:40:27
 Comment: ICSABF
 Mode: CONC Corr. Factor: 1

Operator:

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

M 0203

Analysis Report

QC Standard

Tue 02-18-97 05:49:17 PM

page 1

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	5.248	1.015	5.437	0.0399
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	0.0674
#2	10.27	5.084	5.053	5.293	1.010	5.472	0.0270
#3	10.18	5.048	5.052	5.245	1.024	5.421	0.0254
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

M 0204

Analysis Report

QC Standard

Tue 02-18-97 05:56:40 PM

page 1

Method: CLP1 Sample Name: CCB4
 Run Time: 02/18/97 17:52:53
 Comment: CCB4
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag	Al	As	Ba	Be	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.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
Avg	-.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
Avg	.0003	.0004	-.0088	.0097	-.0011	.0058	.0087
SDev	.0073	.0017	.0133	.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					
Avg	.0006	.0019					
SDev	.0004	.0002					
%RSD	75.28	10.13					
#1	.0010	.0020					
#2	.0006	.0017					
#3	.0001	.0020					
Errors	QC Pass	QC Pass					

M 0205

H2M LABS, INC.

Standards Prept: 2/26/97
Source: High Purity

DATE 2/26/97

Trace 61E
TASK: PROECLP2
(Autosampler)

CLIENT NOEC 01220 (Case# RS896)
NOEC 124 (Case# RA096)
NOEC 0122 (Case# RA096) Fe Dilutions
RESULT FILE: RS896.ASC

ANALYST C.G.

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702305L	B60240L
2	ICVL		27	9702305P	B60240P; Cr = +0.20mg/L
3	ICB		28	9702040	B60223; Sb = +120mg/L
4	CAII		29	9702042	B60224; Fe Dilution (1:20)
5	ICSAI		30	CAIF	Fe Dilution (1:2)
6	ICSABI		31	ICSAE	
7	CCV1		32	ICSAF	
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, Ag, As, Cu, Cd, Cr, Co, mg;
15	97022340	XX00120	40		Mn, Pb, Sb, Se, TC; V, Zn
16	97022345	XX00125	41		mm 2/27/97
17	9702235	XX0013	42		
18	9702236	XX0014	43		
19	97022351	XX00131	44		
20	CCV2		45		
21	CCVL2		46		
22	CCB2		47		
23	9702305	B60240	48		
24	97023050	B602400	49		
25	9702305S	B60240S	50		

M 0306

P 0065

Thermo Jarrell Ash

AutoSampler Report Table: RS896

Wed 02-28-97 03:18:19 PM

page 1

Trace 61E

Table Name: RS896

Autosampler Type: TYPE 13A

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	CR11	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 0207

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)						

H2M LABS, INC.

SDG NO.: NDEC01220; NDEC124

DATE: 2/26/97

ANALYST: CGZ

ELEMENT: TCL Metals

METALS QC CHECKLIST

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?

YES	NO	NA
✓		
✓		
✓		
✓		
✓		
✓		
	✓	
		✓
✓		
✓		
✓		
✓		
		✓
		✓
✓		

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

Thermo Jarrell Ash
Standardization Rpt.

Trace 61E

Method: PROFCLP2

Standard: BLANK

NOEC 01220 (AS896)
NOEC 124 (AS896)
Wed 02-26-97 11:18:57 AM
Charles [Signature]

page 1

Data File: AS896.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

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
Avg	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
Avg	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
Avg	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	--	--	--	--	--	--
Avg	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	--	--	--	--	--	--

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	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
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
3b2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
3e1960	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
3r4215	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

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
Ba	317.933	BLANK	.010280	.014105	-.003825
		ICSH	40.2777	61.1838	-20.9060
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bd	226.502	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bo	228.616	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Br	267.716	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bu	324.754	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Fe	271.441	BLANK ICSH	-.000096 .483302	-.000055 .641529	-.000041 -.158227
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.940	BLANK FeNaL	.000000 5.00000	.000000 5.00000	-.000000 .000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
C	766.491	BLANK NAK100	.012997 22.0711	.012452 20.3655	.000546 1.70559
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Mg	279.079	BLANK ICSH	.000096 53.8566	.000995 68.4090	-.000899 -14.5524
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
In	257.610	BLANK MULTIH	.000000 5.00000	-.000000 5.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	BLANK MULTIH	.000000 5.00000	.000000 5.00000	-.000000 .000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na	330.232	BLANK NAK100	-.047814 6.47239	-.038439 6.29353	-.009375 .178859
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.995	BLANK FeNaL	.000000 5.00000	.000000 5.00000	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pi	231.604	BLANK MULTIH	.000000 5.00000	-.000000 5.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	BLANK FURNH	.000000 1000.00	.000000 1000.00	-.000000 -.000061
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	BLANK FURNH	.000000 1000.00	-.000000 1000.00	.000000 .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
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
3n1899	189.989	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
3r4215	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
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

Analysis Report

Wed 02-26-97 12:07:11 PM

page 1

Method: PROFCLP2 Sample Name: ICV
 Run Time: 02/26/97 12:00:02
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: CGZ

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					

M 0222

Analysis Report

Wed 02-26-97 12:07:11 PM

page 2

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
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	--	--	--	--	--	--

K 0223

Analysis Report

Wed 02-26-97 12:14:28 PM

page 1

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	94.315	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							

M 0224

Analysis Report

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Low

Elem	Sr4215	Ti	Tl1908	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 0325

Analysis Report

Wed 02-26-97 12:21:45 PM

page 1

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					

M 0226

Analysis Report

Wed 02-26-97 12:21:45 PM

page 2

Low -60.000 -5.0000

Elem	Sr4215	Ti	Tl1908	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	--	--	--	--	--	--

M 0227

Analysis Report

Wed 02-26-97 12:29:01 PM

page 1

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

M 0328

Analysis Report

Wed 02-26-97 12:47:35 PM

page 1

Method: PROFCLP2 Sample Name: ICSAI
 Run Time: 02/26/97 12:40:26
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: CGZ

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					

M 0229

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 12:54:52 PM

page 1

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
Avg	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
Avg	.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
Avg	.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
Avg	-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					

M 0231

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 01:02:09 PM

page 1

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
Avg	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
Avg	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
Avg	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
Avg	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 0223

Analysis Report

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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	--	--	--	--	--	--

M 0324

Analysis Report

Wed 02-26-97 01:09:26 PM

page 1

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 High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
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 High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK
Low					2.750		
					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 High	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Low			2.750				
			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 High	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Low							

11 0225

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	--	--	--	--	--	--

Analysis Report

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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	.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					

M 0227

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 01:33:59 PM

page 1

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
Avg	-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
Avg	.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
Avg	.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
Avg	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					

M 0229

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	--	--	--	--	--	--

Analysis Report

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page 1

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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Analysis Report

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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	--	--	--	--	--	--

M 0242

Analysis Report

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page 1

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
Avg	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
Avg	.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
Avg	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
Avg	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
Avg	.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

M 0243

Analysis Report

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page 1

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	.2572	.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	1.34	.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

M 0244

Analysis Report

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page 1

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		

M 0245

Analysis Report

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page 1

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

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XX0012S

Operator: CGZ

Run Time: 02/26/97 14:10:31

Comment: 97022348 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

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XX0013

Operator: CGZ

Run Time: 02/26/97 14:17:48

Comment: 9702235 2127197 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

M 0243

Analysis Report

Wed 02-26-97 02:32:14 PM

page 1

Method: PROFCLP2 Sample Name: XX0014
 Run Time: 02/26/97 14:25:05
 Comment: 9702236 2/27/97 CGZ
 Mode: CONC Corr. Factor: 1

Operator: CGZ

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	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
Avg	.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
Avg	.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
Avg	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
Avg	.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

M 0241

Analysis Report

Wed 02-26-97 02:39:30 PM

page 1

Method: PROFCLP2 Sample Name: XX0013L

Operator: CGZ

Run Time: 02/26/97 14:32:22

Comment: 9702235L 26797 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

M 0250

Analysis Report

Wed 02-26-97 02:46:48 PM

page 1

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
Avg	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
Avg	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
Avg	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
Avg	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					1100.0

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 02:54:05 PM

page 1

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							

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 03:01:22 PM

page 1

Method: PROFCLP2 Sample Name: CCB2

Operator: CGZ

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	.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					

M 0255

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

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Method: PROFCLP2 Sample Name: B60240

Operator: CGZ

Run Time: 02/26/97 15:01:30

Comment: 9702305 212747 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

M 0257

Analysis Report

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Method: PROFCLP2 Sample Name: B60240D

Operator: CGZ

Run Time: 02/26/97 15:08:47

Comment: 97023050 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 0253

Analysis Report

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Method: PROFCLP2 Sample Name: B60240S

Operator: CGZ

Run Time: 02/26/97 15:16:05

Comment: 9702305S 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	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	1820.8	.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
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

M 0259

Analysis Report

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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

Analysis Report

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page 1

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

M 0261

Analysis Report

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page 1

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

M 0262

Analysis Report

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page 1

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 0263

Analysis Report

Wed 02-26-97 03:59:40 PM

page 1

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

M 0264

Analysis Report

Wed 02-26-97 04:13:16 PM

page 1

Method: PROFCLP2 Sample Name: ICSAF

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
Avg	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
Avg	-.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
Avg	.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
Avg	-.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					
Low							

M 0265

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.:

Elms	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
Elms	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
Elms	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
Elms	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
Elms	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
Elms	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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Analysis Report

Wed 02-26-97 04:20:33 PM

page 1

Method: PROFCLP2 Sample Name: ICSABF

Operator: CGZ

Run Time: 02/26/97 16:13:25

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	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
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
Avg	.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
Avg	.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
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
Avg	-6.7484	954.86	-4.5597	-7.8415	955.03	954.77	-.0690
SDev	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
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		1200.0					

M 0266

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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 04:27:51 PM

page 1

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					5.000

Analysis Report

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page 2

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	--	--	--	--	--	--

M 0283

Analysis Report

Wed 02-26-97 04:35:09 PM

page 1

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
Avg	.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
High							
Low							

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.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
Avg	.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	.82838	.12528
#3	.0008	.0008	2.682	.0017	-1.6484	1.6208	.53246
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
Avg	.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	-2.7488	1.1980	3.2707	-.80382	.0038
#2	.34752	1.6061	-.08032	.56073	6.8463	-1.0104	.0052
#3	.53192	2.4623	.61381	.49065	.11844	3.6321	-.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

M 0270

Analysis Report

Wed 02-26-97 04:35:09 PM

page 2

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	--	--	--	--	--	--

M 0271

Analysis Report

Wed 02-26-97 04:42:26 PM

page 1

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
#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	.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
#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	109.8
#1	-1.1801	1.4293	-3.3028	-.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					

16 0272

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	--	--	--	--	--	--

H₉ DEC 124.wks

NDEC 01261

NDEC 124

NDEC B0012

NDEC B0122

MERCURY ANALYSIS LOGBOOK

ELEMENT Hg

Intensity Time

Blank 47 7:58

0.2 3852

1.0 18782

2.0 37942

5.0 94593

10.0 184187

H2M LABS, INC.Cal. with prep 1/31/97
Source: High PurityDATE 1/31/97INSTRUMENT ID: Leeman PS-200 r = .9999ANALYST SIGNATURE [Signature]

#	SPK	LAB NO.	RESULT (ug/L)	DIL. FACTOR	SAMPLE WEIGHT	% TS	mq/kg	SAMPLE ID/NOTES
1		ICV	6.05	100.8%				TV = 6.00
2		ICB	<1.10					
3		CCV1	6.17	102.8%				TV = 6.00
4		CCB1	<1.10					
5		PB _u F	<1.10					
6		PB _u	<1.10					
7		PB _s	<1.10		.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	<1.10					B223AX ^{sup} 3/3/97
11		042	.52					B60224
12		033	.13		.24			B60219
13		033D	<1.10		.24			D
14	1	033S	1.14	101.0%	.24			S
15		CCV2	6.53	109.8%				
16		CCB2	<1.10					
17		9702043	<1.10					B224AX ^{min} 2/24/97
18		235	.38		.21			XX0013
19		236	<1.10		.24			XX0014
20		440	<1.10					XX0025
21		616	<1.20					zzzzzz
22		617	<1.20					↓
23		618	.27					
24		044	.56					B60225
25		044D	.56					D

P 00830274

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	97020445	1.62	106.0%				B60225 S
27		CCV3	6.38	106.3%				
28		CCB3	<1.10					
29		9702619	<1.20					EEEEEE
30		620	<1.20					
31		621	<1.20					
32		622	.37					
33		623	<1.20					
34		624	<1.20					
35		625	<1.20					
36		045	<1.10					
37		045D	<1.10					
38	1	0455	1.05	105.0%				
39		CCV4	6.14	102.3%				
40		CCB4	<1.10					
41		9702626	<1.20					EEEEEE
42		627	<1.20					
43		628	<1.20					
44		629	<1.20					
45		630	<1.20					
46		631	<1.20					
47		141	.65		.22	12.5	2.4 mg/kg	
48		305	<1.10		.23			
49		305D	<1.10		.23			
50	1	3055	1.12	112.0%	.23			

P 0034 0275

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT	Hq

DATE 1/31/97

INSTRUMENT ID: _____

ANALYST SIGNATURE [Signature][illegible]

P 0035 0276

H2M LABS, INC.

SDG NO.:

DATE:

ANALYST:

ELEMENT:

GENERAL

METALS QC CHECKLIST

GENERAL		YES	NO	NA
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

William Fittman

07:58:58 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 1

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		

M 0278

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:

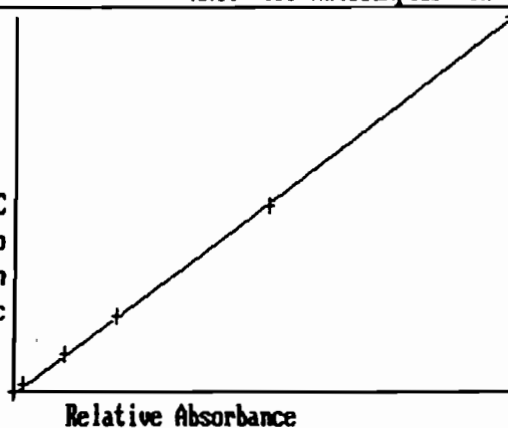
Gas: 0.30 LPM

State: Idle

Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line:	Hg			Accepted
	Conc.	Calc.	Dev.	LiNear
S1	.000	-.029	-.029	Quadratic
S2	.200	.177	-.023	WtdLinear
S3	1.00	.906	-.014	
S4	2.00	2.02	.024	Accept
S5	5.00	5.09	.094	
S6	10.0	9.95	-.051	StdAdd
A	.0000000	r	.999989	
B	5.41870e-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

08:14:13 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 2

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: ⁰²²³⁹¹ ~~022391~~ _{5) 5K1}								
				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				

M 0280

08:42:43 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 3

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~~ ^{B224AX} _{num 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				

M 0281

09:09:59 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 4

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~~ ^{B-2257A} _{2/24/97}				Seq: 41		09:34:49 31 Jan 1997 HG		
Hg	-.028	ppb	.000	-.028				

M 0282

09:37:03 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 5

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 0225AXD								
Hg	-.032	ppb	.000	-.032				
*** Sample ID: 0225AXS								
Hg	1.05	ppb	.000	1.05				
*** Sample ID: CCV4								
Hg	6.14	ppb	.000	6.14				
*** Sample ID: CCB4								
Hg	-.051	ppb	.000	-.051				
*** Sample ID: ZZZZZZ								
Hg	-.011	ppb	.000	-.011				
*** Sample ID: ZZZZZZ								
Hg	-.021	ppb	.000	-.021				
*** Sample ID: ZZZZZZ								
Hg	-.028	ppb	.000	-.028				
*** Sample ID: ZZZZZZ								
Hg	-.023	ppb	.000	-.023				
*** Sample ID: ZZZZZZ								
Hg	.123	ppb	.000	.123				
*** Sample ID: ZZZZZZ								
Hg	-.041	ppb	.000	-.041				
*** Sample ID: ZZZZZZ								
Hg	.646	ppb	.000	.646				
*** Sample ID: B60240								
Hg	-.046	ppb	.000	-.046				

M 0283

10:04:17 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 6

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: CCBS				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				

16 0284

10:31:44 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

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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				

M 0285

H2M LABS, INC.

IV. DOCUMENTATION FOR METALS

- A. DIGESTION LOG SHEETS
- B. TOTAL SOLIDS LOG SHEETS
- C. REPORTING ANALYST SIGNATURE PAGE

2/5/12 m0286
H-0282

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: NDEC - RWLS
SDG #: 0122 - 014
MATRIX: SOIL - LEAVES
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	AFTER
B60219	9702033	FE	1.00g	200ml		Brown MEDIUM	colorless clear
↓	↓	↓	↓	↓	Dup	↓	↓
↓	↓	↓	↓	↓	Spike + 2.0ml LOT# 690423	↓	↓
	Blank		Ⓡ			colorless clear	↓
	LCS	Y	↓	Y	LOT 230 (ERR)	BROWN FINE	LITE YELLOW clear
B60223	9702040	FE	100ml	100ml	(SEE BELOW)	BROWN opaque	D. YELLOW clear
223A	41					colorless clear	colorless clear
224	42				Ⓡ	BROWN opaque	YELLOW clear
224A	43					colorless clear	colorless clear
225	44				Ⓡ	BROWN opaque	YELLOW clear
↓	↓	↓	↓	↓	Dup	↓	↓
↓	↓	↓	↓	↓	Spike + 1.0ml LOT# 690423	↓	↓
225A	45				high purity	colorless clear	LITE YELLOW clear
↓	↓	↓	↓	↓	Dup	↓	↓
↓	↓	↓	↓	↓	Spike + 1.0ml LOT# 690423	↓	↓
	9703628				high purity	colorless clear	colorless clear
	3820					↓	↓
	Blank					↓	↓
	LCS	Y	Y	Y	TRACE	YELLOW clear	YELLOW clear

COMMENTS: SEDIMENT mm 3/3/97 - layer of sediment on bottom of sample container approx. PH < 2
approx 12mm - 2mm 2mm to 12mm thick

- 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
mo287
3/5/97 H 0:286

Hg DEC 124. wks NDEC 01261
H2M LABS, INC. NDEC 124
 Digestion 12:00-14:00 NDEC B0012
 NDEC B 0122

NAME: William F. Patton
 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			
LCVI	TV=6.00		0.6ml/100			
LCB/			100			
PBW			100			
PBS		.20				
LCS	ERA230	.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		✓		

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
97023055	B602405	.23		100		1
438	XX0023		100			
438D	D					
438S	S					1
234	XX0012	.20				
234D	D	.20				
234S	S	.20				1
Cal with mg				1/31/97		
0.2 ppt			102.2/100	100		
1.0			110.2/100			
2.0			120.2/100			
5.0			150.2/100			
10.0			1.0 ml/100			

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 8:00 (27)

END TIME: 8:00 (28)

ND82

SDG 0121

Handwritten signature

DATE: 1/27/27

ANALYST: MIM

PAN/CRUCIBLE CI				PAN/CRUCIBLE CL			
LAB# 9702023				LAB# 9702027			
%TS 43.5%				%TS 45.7%			
INITIAL WEIGHT	10.790	DRY WEIGHT	10.4275	INITIAL WEIGHT	10.3585	DRY WEIGHT	9.9677
-TARE WEIGHT	-1.5236	-IGNITED WEIGHT	-	-TARE WEIGHT	-1.5240	-IGNITED WEIGHT	-
=SAMPLE WEIGHT	=9.7534	=VOLATILE WEIGHT	=	=SAMPLE WEIGHT	=8.8345	=VOLATILE WEIGHT	=
LAB# 9702024				LAB# 9702030			
%TS 97.6%				%TS 95.3%			
INITIAL WEIGHT	10.3182	DRY WEIGHT	10.1059	INITIAL WEIGHT	12.2080	DRY WEIGHT	11.6957
-TARE WEIGHT	-1.3187	-IGNITED WEIGHT	-	-TARE WEIGHT	-1.5218	-IGNITED WEIGHT	-
=SAMPLE WEIGHT	=9.9994	=VOLATILE WEIGHT	=	=SAMPLE WEIGHT	=10.6862	=VOLATILE WEIGHT	=
LAB# 9702026				LAB# 9702031			
%TS 96.3%				%TS 95.2%			
INITIAL WEIGHT	10.2255	DRY WEIGHT	9.9930	INITIAL WEIGHT	12.1835	DRY WEIGHT	11.6673
-TARE WEIGHT	-1.3172	-IGNITED WEIGHT	-	-TARE WEIGHT	-1.5289	-IGNITED WEIGHT	-
=SAMPLE WEIGHT	=9.4463	=VOLATILE WEIGHT	=	=SAMPLE WEIGHT	=10.6546	=VOLATILE WEIGHT	=

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 8:00 (21)

END TIME: 8:00 (29)

NDEE

SDG 0121

Handwritten signature

DATE: 1/27/97

ANALYST: M.H.

LAB# 9702018	PAN/CRUCIBLE 28	LAB# 9702031	PAN/CRUCIBLE PF
%TS 97.0%	%TVS (360204)	%TS 88.7%	%TVS
INITIAL WEIGHT 12.1753	DRY WEIGHT 11.8477	INITIAL WEIGHT 10.9236	DRY WEIGHT 9.8349
-TARE WEIGHT -1.3217	-IGNITED WEIGHT -	-TARE WEIGHT -1.3172	-IGNITED WEIGHT -
=SAMPLE WEIGHT 10.8536	=VOLATILE WEIGHT =	=SAMPLE WEIGHT 9.6064	=VOLATILE WEIGHT =
LAB# 9702033	PAN/CRUCIBLE 17	LAB# 9702025	PAN/CRUCIBLE QA
%TS 96.2%	%TVS (360219)	%TS 93.5%	%TVS
INITIAL WEIGHT 10.3242	DRY WEIGHT 9.9847	INITIAL WEIGHT 10.3040	DRY WEIGHT 10.2346
-TARE WEIGHT -1.3261	-IGNITED WEIGHT -	-TARE WEIGHT -1.3114	-IGNITED WEIGHT -
=SAMPLE WEIGHT 9.0034	=VOLATILE WEIGHT =	=SAMPLE WEIGHT 9.0549	=VOLATILE WEIGHT =
LAB# 9702029	PAN/CRUCIBLE 14	LAB# 9702029	PAN/CRUCIBLE
%TS 40.1%	%TVS (360214)	%TS 37.2%	%TVS
INITIAL WEIGHT 11.1223	DRY WEIGHT 5.2446	INITIAL WEIGHT 12.4080	DRY WEIGHT 9.2459
-TARE WEIGHT -1.3158	-IGNITED WEIGHT -	-TARE WEIGHT -1.3159	-IGNITED WEIGHT -
=SAMPLE WEIGHT 9.7965	=VOLATILE WEIGHT =	=SAMPLE WEIGHT 11.0921	=VOLATILE WEIGHT =

0109

P 0013

TOTAL SOLIDS FOR SLUDGES AND SOILS

242

PART TIME: 8:00 (27)

SP6 0122

DATE: 1/27/47

ND TIME: 8.00 (20)

Collier

ANALYST: NIM

LAB#	9702032	PAN/CRUCIBLE		LAB#		PAN/CRUCIBLE	
%TS	960%	%TVS	(B60218)	%TS		%TVS	
INITIAL WEIGHT	12.2745	DRY WEIGHT	9.9173	INITIAL WEIGHT		DRY WEIGHT	
-TARE WEIGHT	-1.3078	-IGNITED WEIGHT	-	-TARE WEIGHT		-IGNITED WEIGHT	
=SAMPLE WEIGHT	=8.9665	=VOLATILE WEIGHT	=	=SAMPLE WEIGHT		=VOLATILE WEIGHT	
LAB#		PAN/CRUCIBLE		LAB#		PAN/CRUCIBLE	
%TS		%TVS		%TS		%TVS	
INITIAL WEIGHT		DRY WEIGHT		INITIAL WEIGHT		DRY WEIGHT	
-TARE WEIGHT		-IGNITED WEIGHT		-TARE WEIGHT		-IGNITED WEIGHT	
=SAMPLE WEIGHT		=VOLATILE WEIGHT		=SAMPLE WEIGHT		=VOLATILE WEIGHT	
LAB#		PAN/CRUCIBLE		LAB#		PAN/CRUCIBLE	
%TS		%TVS		%TS		%TVS	
INITIAL WEIGHT		DRY WEIGHT		INITIAL WEIGHT		DRY WEIGHT	
-TARE WEIGHT		-IGNITED WEIGHT		-TARE WEIGHT		-IGNITED WEIGHT	
=SAMPLE WEIGHT		=VOLATILE WEIGHT		=SAMPLE WEIGHT		=VOLATILE WEIGHT	
LAB#		PAN/CRUCIBLE		LAB#		PAN/CRUCIBLE	
%TS		%TVS		%TS		%TVS	
INITIAL WEIGHT		DRY WEIGHT		INITIAL WEIGHT		DRY WEIGHT	
-TARE WEIGHT		-IGNITED WEIGHT		-TARE WEIGHT		-IGNITED WEIGHT	
=SAMPLE WEIGHT		=VOLATILE WEIGHT		=SAMPLE WEIGHT		=VOLATILE WEIGHT	

H2M LABS, INC.

CASE #: RAC96

SDG #: 0122

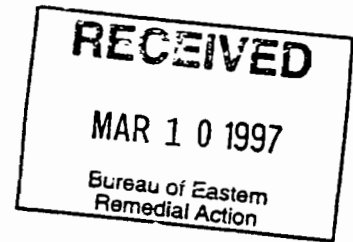
SCAN: METALS

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: 

Date: 2/28/27

Analytical Data Package For



**NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
REGION 0**

CONTRACT #: C003180

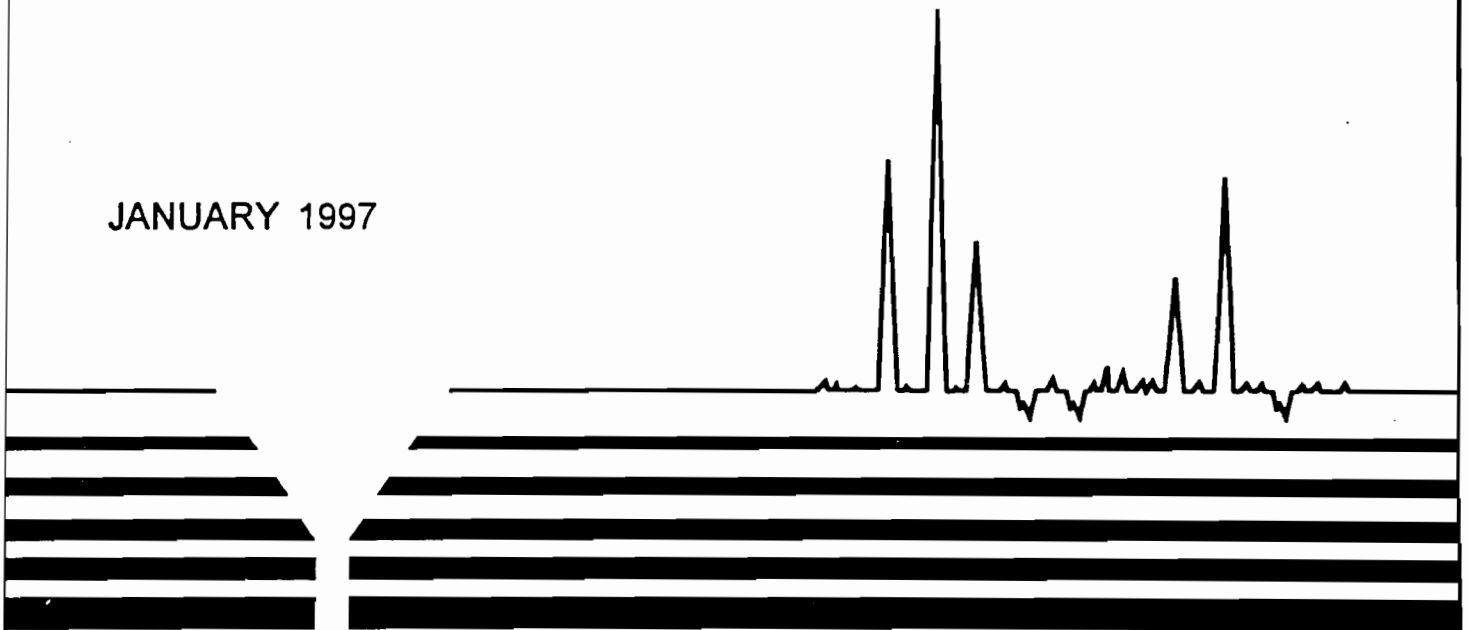
CASE #: RA096 SDG #: 0124

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.

BAC 70

C124

METALS

TABLE OF CONTENTS

- I. REPORTS**
- II. QC SUMMARY**
- III. RAW DATA**
- IV. DOCUMENTATION**

M 0001

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

SOW No.: 9/93 CLP

Sample No.

B60240

B60240D

B60240S

Lab Sample ID.

9702305

9702305D

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:

Name:

Date:

Title:

COVER PAGE - IN

M 0002

I. REPORTS FOR METALS

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

- E - The reported value is estimated because of the presence of interference. An explanatory note 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.

1
INORGANIC ANALYSIS DATA SHEET

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
- 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

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

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	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

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									
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

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									
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

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			CRDL Standard for ICP				
	True	Found	%R	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

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)						Preparation Blank C		M
	1	C	2	C	3	C					
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											

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): WATER

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

Analyte	Initial Calib. Blank (ug/L) C		Continuing Calibration Blank (ug/L)						Preparation Blank C		M
	1	C	2	C	3	C					
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											

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0124

ICP ID Number: TJA61E

ICS Source: HIGH PURITY

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%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

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
% Solids for Sample: 97.9

Level (low/med): LOW

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

Comments:

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:

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)			Solid (mg/kg)					%R
	True	Found	%R	True	Found	C	Limits		
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									

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No. : RA096

SAS No.:

SDG No.: XX0124

Concentration Units: ug/L

[illegible]

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	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	6555.07	U	6670.00	U	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	B	85.00	B	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		-		-		-	P
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

avg
3/5/92

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

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	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

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.

FORM X - IN

M 0022

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.

FORM XI (PART 1) - IN

M 0023

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0124

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

Contract: C003180

SDG No.: XX0124

Method: CV

FORM XIII - IN

13

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No. :

SDG No.: XX0124

Method: P

FORM XIII - IN

M 0026

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																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
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				
S	1.00	1119		X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-				
S	1.00	1125		X	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-				
S	1.00	1131		-	-	X	-	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-	X	-	-	-					
S	1.00	1137		-	-	-	X	X	X	-	X	X	X	-	-	-	X	-	-	-	-	-	-	X	X	-					
S	1.00	1145		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	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	X	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	X	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	X	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	-					

Analysis Run Log

Contract: C003180

SAS No. :

SAS No.: SDG No.: XX0124

Method: P

End Date: 02/26/97

[illegible]

Lab Name: H2M LABS, INC.

Lab Code: 10478

Case No. : RA096

Contract: C003180

SAS No. :

SDG No.: XX0124

Instrument ID Number: LEEMAN

Method: CV

Start Date: 01/31/97

End Date: 01/31/97

FORM XIV - IN

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															
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I
CCV3	1.00	0914		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB3	1.00	0916		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
ZZZZZZ	1.00	0919		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0921		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0923		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0925		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0928		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0937		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0939		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV4	1.00	0941		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB4	1.00	0944		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
ZZZZZZ	1.00	0946		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0948		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0950		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0953		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0955		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0957		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0959		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B60240	1.00	1002		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
B60240D	1.00	1004		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
B60240S	1.00	1006		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCV5	1.00	1008		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
CCB5	1.00	1011		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
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III. RAW DATA FOR METALS

- A. ICP DATA
- B. MERCURY DATA

H2M LABS, INC.

Standards Purity: 2/26/97
Source: High Purity

Trace 61E
TASK: PROFCLP2
(Autosampler)
CLIENT NOEC01220 (Case# A5046)
NOEC124 (Case# A4046)
NOEC0122 (Case# A4046) Fe Dilutions
RESULT FILE: R5896.ASC

DATE 2/26/97
ANALYST C. G. J.
MAINT. 2/26/97

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	9702305L	B60240L
2	ICVL		27	9702305P	B60240P; Cr = +0.20mg/L Sb = +120mg/L
3	ICB		28	9702040	B60223; Fe Dilution (1:20)
4	CAII		29	9702042	B60224; Fe Dilution (1:20)
5	ICSAI		30	CAIF	
6	ICSABI		31	ICSAF	
7	CCV1		32	ICSAF	
8	CCVL1		33	CCV3	
9	CCB1		34	CCVL3	
10	PBS1	DEC01220 2/15/97	35	CCB3	
11	PBS2	DEC124 2/15/97	36		
12	LCSS1	DEC01220	37		
13	LCSS2	DEC124	38		
14	9702234	XXCC12	39		
15	9702234D	XXCC12D	40		
16	9702234S	XXCC12S	41		
17	9702235	XXCC13	42		
18	9702236	XXCC14	43		
19	9702235L	XXCC13L	44		
20	CCV2		45		
21	CCVL2		46		
22	CCB2		47		
23	9702305	B60240	48		
24	9702305D	B60240D	49		
25	9702305S	B60240S	50		

M 0034

Trace G1E

Table Name: RS896

Autosampler Type: TYPE TCA

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	CR11	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	FBS1	1	-NA-	Sample
11	2	3	FBS2	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

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)						

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ELEMENT: ^{WZ} TCL Metals

GENERAL

- [illegible]

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

- [illegible]

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

Thermo Jarrell Ash
Standardization Rpt.

Trace 61E

Method: PROFCLP2

Standard: BLANK

NOEC 1220 (RSE46)
NOEC 124 (RSE46)
Wed 02-25-97 12:18:57 AM
Charles [Signature]
Data File: RSE46.ASC

page 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Avg	-.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
Avg	-.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
Avg	.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
Avg	-.00479	-.00791	.00219	-.00529	.00127	.0055	.0004
SDev	.00266	.00392	.00200	.00236	.00158	.0060	.0004
%RSD	55.587	49.604	91.165	54.083	124.22	109.4	101.7

#1	-.00573	-.01085	.00398	-.00247	.00049	.0078	.0006
#2	-.00682	-.00942	.00003	-.00523	.00023	-.0013	-.0001
#3	-.00178	-.00345	.00257	-.00319	.00309	.0100	.0006

Elem	Ti	Ti1908	V	Zn
Avg	-.0000	-.01065	-.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

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	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	.82523

#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	2.1062

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	84.83	2.323	2.732	1.446
SDev	.004	.014	.017	.27	.007	.004	.001
%RSD	.2642	.2315	.1967	.3150	.2868	.1533	.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	94.58	2.321	2.727	1.448

Elem	Mn	Mo2020	Ni	Sn1399	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	.2190	.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	211.1039	--	--	--	--	--	--
%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	--	--	--	--	--	--

Method: PROFCLP2

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	AGSBH	BLANK	2611.63	.115930	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	206.833	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	1595.85	-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	192.402	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

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	.010230	.014105	-.003825
		ICSH	40.2777	61.1833	-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
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
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
2068/1	206.831	BLANK	.000000	-.000000	.000000
		AGSBH	2000.00	2000.00	-.000122
2068/2	206.832	BLANK	.000000	.000000	-.000000
		AGSBH	2000.00	2000.00	.000000
1960/1	196.021	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.000	.000061
1960/2	196.022	BLANK	.000000	.000000	-.000000
		FURNH	1000.00	1000.00	.000000
Sn1899	189.939	BLANK	.000000	.000000	-.000000
		MULTIH	10.0000	10.0000	.000000
Sr4215	421.552	BLANK	.000000	.000000	-.000000
		MULTIH	5.00000	5.00000	.000000
Ti	334.941	BLANK	.000000	-.000000	.000000
		MULTIH	5.00000	5.00000	.000000
Tl1908	190.364	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

Analysis Report

Wed 02-26-97 12:07:11 PM

page 1

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
Avg	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
Avg	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	2.500	2.489	51.11	80.25	49.25
#3	2.433	2.449	2.478	2.512	50.17	82.08	48.15

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
Avg	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	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	1014.9	487.12	1023.5	1010.6	479.39	490.73	4.970
SDev	3.5	4.51	6.2	8.6	5.18	4.81	.071
%RSD	.83427	.92642	.60851	.94851	1.0786	.98095	1.422

#1	1022.0	491.51	1029.8	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	4.389

Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1100.0	550.00					

M 0048

Low 900.00 450.00

Elem	Sr4215	Ti	Tl1908	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-0.0902	2.437	481.97	2.465	2.548
SDev	.0007	.008	3.48	.014	.022
%RSD	.7994	.3265	.72239	.5876	.9810

#1	-0.0898	2.494	483.97	2.477	2.565
#2	-0.0897	2.488	484.00	2.472	2.557
#3	-0.0910	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	29313	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 12:14:28 PM

page 1

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	-1.10687	.0217	-1.29510	.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	.0003	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	.0566	.0299
#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	2.614	.0017	-1.14298	1.3349	.84310
SDev	.0001	.0001	.010	.0004	2.14646	1.2657	.19601
%RSD	6.819	9.322	.4525	23.24	1501.2	94.915	23.248

#1	.0014	.0014	2.595	.0018	2.1553	-.09935	.65192
#2	.0016	.0013	2.617	.0021	-2.0943	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	-1.60862	1.6838	-1.88317	-1.46945	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	-1.04048	-1.7905	6.5427	.81395	.0019
#2	-1.0418	2.0735	-1.78034	-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							

M 0050

Low

Elem	Sr4215	Tl	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	-.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	--	--	--	--	--	--
Avg	30753	--	--	--	--	--	--
SDev	39.24371	--	--	--	--	--	--
%RSD	.1276099	--	--	--	--	--	--
#1	30713	--	--	--	--	--	--
#2	30791	--	--	--	--	--	--
#3	30755	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 12:21:45 PM

page 1

Method: PROFCLP2 Sample Name: ICB

Operator: CGJ

Run Time: 02/26/97 12:14:35

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-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
Avg	.0005	-.0001	-.0000	-.0003	.0096	.0081	.0037
SDev	.0001	.0009	.0012	.0003	.0019	.0169	.0111
%RSD	13.60	789.9	7721.	97.19	19.63	207.9	293.8
#1	.0005	.0007	.0011	.0001	.0113	.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
Avg	.0003	.0002	.0401	.0000	-7.5269	3.9636	.07039
SDev	.0005	.0003	.0039	.0009	7.6759	4.2940	.137680
%RSD	152.8	123.4	9.300	2597.	101.98	111.14	531.55
#1	.0003	.0006	.0446	.0008	.60306	-.57136	-.14998
#2	-.0002	.0001	.0373	-.0009	-8.7655	4.1609	-.14332
#3	.0004	.0001	.0384	.0001	-14.508	8.0012	.50595
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
Avg	-.32595	-.37771	5.6486	-3.3084	-10.950	4.9000	-.0005
SDev	1.70494	.85251	9.6745	2.7591	11.336	4.8495	.0032
%RSD	523.07	225.70	130.47	72.447	109.09	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	.0002
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	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.0001	.0007	2.4338	.0006	.0005
SDev	.0003	.0002	1.0030	.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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 12:29:01 PM

page 1

Method: PROFCLP2 Sample Name: CRII
 Run Time: 02/26/97 12:21:53
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: CGC

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	23.99	61.01

#1	.0107	.1048	.0212	.0503	.0095	.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	.0354	3.1488	6.1038	6.7851
SDev	.0003	.0006	.0022	.0006	3.0488	1.3220	.1473
%RSD	.9003	3.209	2.983	.6996	37.414	21.558	2.1703

#1	.0312	.0200	.0704	.0357	11.165	4.8503	6.9535
#2	.0315	.0209	.0740	.0361	8.2137	5.9761	6.7312
#3	.0311	.0197	.0743	.0350	5.0685	7.4850	6.6807

Elem	Sb2063	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	123.77	9.8220	122.05	124.64	11.986	8.7412	.1643
SDev	1.22	1.1839	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	Tl1903	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0001	.0984	20.250	.0999	.0508
SDev	.0002	.0003	1.339	.0000	.0003
%RSD	213.8	.3527	6.8130	.0262	.6935

#1	.0001	.0980	19.424	.0999	.0504
#2	.0002	.0985	19.432	.0999	.0511
#3	-.0001	.0986	21.842	.1000	.0510

M 0054

Analysis Report

Wed 02-26-97 12:47:35 PM

page 1

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
Avg	2.7399	493.6	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	493.9	.09469	.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
Avg	-.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	208.5	.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
Avg	.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	33.44	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	-.15679	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	3068/1	3068/2	1960/1	1960/2	Sn1890
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	-.65114	1.4600	1.8759	-1.9631	2.7706	.80533	-.0677
SDev	.64388	.8243	2.1035	.4697	3.1145	1.5410	.0022
%RSD	98.385	56.456	106.46	23.927	112.41	191.35	3.187
#1	-.49598	1.4409	3.4904	-2.4366	-.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					

M 0055

Analysis Report

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page 2

Low -60.000 -5.0000

Elem	Sr4215	Ti	Ti1908	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-.4159	-.0126	5.9359	-.0001	.0001
SDev	.0029	.0001	1.9345	.0005	.0002
%RSD	.6936	.9187	32.317	484.6	239.7

#1	-.4132	-.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

Analysis Report

Wed 02-26-97 12:54:52 PM

page 1

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
Avg	1026.7	513.9	1000.3	.9910	.5021	.5147	572.3
SDev	1.3	1.1	1.4	.0003	.0006	.0009	1.3
%RSD	.12886	.2104	.13705	.0775	.1220	.1742	.2249
#1	1028.2	515.1	1000.6	.9902	.5023	.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	.3000	.4000	.4000	400.0
Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.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	551.3
#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	.3000	.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
Avg	.5022	.9718	.0533	.9445	935.43	927.13	929.89
SDev	.0002	.0006	.0021	.0016	3.91	5.33	4.48
%RSD	.0426	.0622	3.949	.1727	.40777	.57530	.48219
#1	.5022	.9724	.0534	.9452	936.52	923.56	927.88
#2	.5024	.9717	.0557	.9456	938.57	933.26	935.03
#3	.5019	.9712	.0513	.9426	931.13	924.57	926.77
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.6000			1.200			1200.0
Low	.4000			.3000			300.00
Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	-6.7633	975.49	.58829	-10.434	970.95	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	-1.3375	-6.2137	981.14	973.67	-.0715
#2	-3.3476	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					

M 0057

Low 800.00

Elem	Sr4215	Ti	Ti1908	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	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 01:02:09 PM

page 1

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	30.10	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	2.446	51.46	30.12	50.72
#2	2.566	2.543	2.543	2.444	51.43	30.08	50.75
#3	2.567	2.542	2.544	2.446	51.41	30.11	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	38.00	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	.22856	.36214	.20560
#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		85.00	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	1026.9	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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Analysis Report

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page 2

Low 900.00 450.00

Elem	Sr4215	Ti	Ti1903	V	En
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	30723	--	--	--	--	--	--
#2	30800	--	--	--	--	--	--
#3	30727	--	--	--	--	--	--

M 0030

Analysis Report

Wed 02-26-97 01:09:26 PM

page 1

Method: PROFCCLP2 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	.0943

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	23.05	85.738	33.101	3365.1

#1	.0016	.0020	2.679	.0017	-.22621	1.1333	.68088
#2	.0009	.0009	2.695	.0019	-4.0580	2.2912	.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	3.3942	.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	325.6

#1	1.6146	2.3717	.64026	2.1006	4.8905	1.1138	.0033
#2	1.1989	2.4373	4.1919	-.29534	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							

M 0061

Low

Elem	Sr4215	Ti	Tl1908	V	Sn
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	.0019
#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	--	--	--	--	--	--

Analysis Report

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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	.0193	.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	.0003	-.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	.0549	.0013	.25434	.06024	.12539
SDev	.0006	.0006	.0033	.0015	4.0164	2.7037	.46654
%RSD	116.7	238.3	6.041	115.6	1576.1	4438.5	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	-.70695	-.30253	2.9130	-.44089	.0005
SDev	.61154	1.7866	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	0.2393	1.2658	-.66035	2.4049	2.1548	-.0038
#3	-1.1392	1.0624	3.3363	-3.3733	-2.7966	2.9386	.0024
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50.000	5.0000					

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Analysis Report

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Low -60.000 -5.0000

Elem	Sr4215	T1	T11906	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-1.0000	.0006	1.7300	.0002	.0005
SDev	.0003	.0004	1.8381	.0005	.0002
%RSD	1457.	73.57	106.25	239.5	43.01

#1	-1.0000	.0001	-.39241	-.0003	.0005
#2	-.0003	.0003	2.7768	.0001	.0003
#3	.0003	.0009	2.8056	.0009	.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	31303	--	--	--	--	--	--
SDev	89.39015	--	--	--	--	--	--
%RSD	.2855161	--	--	--	--	--	--

#1	31326	--	--	--	--	--	--
#2	31211	--	--	--	--	--	--
#3	31387	--	--	--	--	--	--

N 0064

Analysis Report

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page 1

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
Avg	-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
Avg	.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	.0003	.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
Avg	.0002	.0002	.0886	.0017	-2.3326	2.9901	1.0515
SDev	.0010	.0011	.0104	.0026	5.3828	2.4035	.3740
%RSD	453.5	512.7	11.30	150.8	190.03	80.383	35.567
#1	.0011	.0011	.0889	.0041	-4.9999	3.4478	.63497
#2	-.0009	-.0010	.0793	-.0010	3.2960	.39065	1.3585
#3	.0005	.0005	.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
Avg	1.0251	1.4963	6.3147	-1.6161	-10.593	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	-1.31202	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					

M 0065

Analysis Report

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Low -60.000 -5.0000

Elem	Sr4215	Ti	Tl1908	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.0000	.0005	-1.55780	.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	--	--	--	--	--	--
Avg	31832	--	--	--	--	--	--
SDev	194.1457	--	--	--	--	--	--
%RSD	.6099049	--	--	--	--	--	--

#1	32020	--	--	--	--	--	--
#2	31633	--	--	--	--	--	--
#3	31943	--	--	--	--	--	--

M 0066

Analysis Report

Wed 02-26-97 01:41:16 PM

page 1

Method: PROFCLP2 Sample Name: PBS2

Operator: CGE

Run Time: 02/26/97 13:34:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1390	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	.0003
#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	452.6	10.23	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	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.5728	1.1235	1.4943	-3.1047	-1.1696	2.2680	.0155
SDev	1.3427	.4415	6.6643	3.5385	8.4016	3.9004	.0026
%RSD	65.366	39.299	445.33	115.58	718.31	171.98	16.84
#1	-2.4303	1.3146	7.1017	-7.1896	-7.0727	5.5016	.0166
#2	-2.2627	1.4373	-5.8740	-.46021	8.4491	-2.0638	.0184
#3	-.02549	.61361	3.2565	-1.5644	-4.8953	3.3661	.0148

Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50.000	3.0000					

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Analysis Report

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Low -50.000 -5.0000

Elem	Sr4215	Ti	Tl1908	V	Sn
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	7.7554	-.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	.4791149	--	--	--	--	--	--
#1	32276	--	--	--	--	--	--
#2	32417	--	--	--	--	--	--
#3	32109	--	--	--	--	--	--

M 0088

Analysis Report

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page 1

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	14.98

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.041	1.299	3.366	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	3.353	1.450	970.03	976.99	974.67
#2	2.040	1.298	3.370	1.440	962.49	973.01	969.51
#3	2.038	1.295	3.376	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	341.31	326.46	722.35	755.23	1.635
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	713.94	756.52	1.681
#3	332.18	741.70	339.36	329.10	725.77	749.66	1.679

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.5373	2.753	453.06	1.252	.9787
SDev	.0011	.001	2.04	.002	.0025
%RSD	.1960	.0522	.44869	.1399	.2526

#1	.5361	2.759	457.32	1.254	.9815
#2	.5373	2.756	454.51	1.252	.9776
#3	.5384	2.758	453.35	1.250	.9769

M 0069

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: LC3S2

Operator: CGE

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
Avg	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
Avg	.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
Avg	1.142	.6792	2.126	.7732	525.22	526.79	526.27
SDev	.001	.0015	.005	.0024	2.75	2.63	2.06
%RSD	.1237	.2197	.2365	.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
Avg	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	138.30	405.20	421.78	.8935

Elem	Sr4215	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.3103	1.646	246.73	.6766	.5505
SDev	.0002	.002	1.49	.0012	.0012
%RSD	.0640	.0961	.60217	.1722	.2199

#1	.3100	1.646	247.30	.6773	.5513
#2	.3104	1.648	247.37	.6772	.5510
#3	.3103	1.645	245.04	.6752	.5491

M 0070

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XK0012

Operator: CGZ

Run Time: 02/26/97 13:55:58

Comment: 6702234 20170702

Mode: CONC Corr. Factor: Y

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	105.10	128.96	121.04
SDev	.002	.0001	.011	.0019	1.84	.66	1.04
%RSD	.0923	.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	128.90	120.57
#3	1.671	.0102	2.334	.4528	107.31	129.69	122.23

Elem	Sb2068	Se1960	0068/1	0068/2	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	1.203	2.8523	.225	1.358	.0008
%RSD	17.390	42.325	8.3768	48.658	.73152	11.203	.8078

#1	-7.9868	-1.2065	-14.373	-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	-15.341	-3.6958	-31.024	12.135	.0955

Elem	Sr4215	Ti	Ti1908	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

M 0071

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XX0012D

Operator: CGE

Run Time: 02/26/97 14:03:14

Comment: 97011340 2/27/97 CG-2

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	2.533	.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	-1.8556	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	Pb203/1	Pb203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.905	.0103	2.230	.5028	113.03	140.13	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	2.223	.5027	112.12	139.80	129.91
#3	1.904	.0104	2.234	.5011	111.61	140.50	130.38

Elem	Sb2068	Se1960	Te008/1	Te068/2	Te060/1	Te060/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-9.3147	-2.3665	-12.383	-7.7833	-30.220	11.539	.1087
SDev	.3029	.9183	1.590	.4806	1.668	1.907	.0022
%RSD	3.2520	38.826	12.844	6.1740	5.5201	15.660	1.977

#1	-9.3706	-3.3163	-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	-2.2098	-11.065	-8.1690	-32.093	12.574	.1070

Elem	Sr4215	Ti	Ti1903	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.1857	.0913	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

M 0072

Analysis Report

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Method: PROFCLP2 Sample Name: XK00128

Operator: CGJ

Run Time: 02/26/97 14:10:31

Comment: 97011348 012747

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	44.223	15.98	1958.0	.3056	4.620	.0490	36.86
SDev	.121	.04	1.3	.0009	.005	.0000	.03
%RSD	.27430	.2299	.06481	.2600	.1036	.0683	.0806

#1	44.163	16.02	1958.6	.3062	4.625	.0490	36.89
#2	44.362	15.95	1956.5	.3047	4.616	.0490	36.93
#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
Avg	.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	Pb203/1	Pb203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	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
Avg	348.06	1731.9	348.06	348.90	1683.2	1753.7	.1010
SDev	1.68	7.2	2.93	1.08	5.0	3.4	.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	348.27	347.67	1683.8	1745.2	.1039
#3	348.47	1739.2	348.71	349.36	1693.5	1762.0	.0994

Elem	Sr4215	Ti	Ti1903	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.1998	.0715	1773.7	.4887	1.187
SDev	.0001	.0002	4.8	.0006	.001
%RSD	.0491	.2273	.26966	.1301	.0990

#1	.1999	.0714	1774.8	.4893	1.187
#2	.1998	.0717	1765.5	.4891	1.185
#3	.1997	.0716	1771.7	.4887	1.188

M 0073

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: XK0013

Operator: CGE

Run Time: 02/26/97 14:17:48

Comment: 4701235 212747 CG2

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-2.0599	22.73	127.50	.2713	2.312	.0012	90.94
SDev	.2918	.05	.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	80.98
#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	.0093	4.016	.4207	160.21	160.74	173.91
SDev	.002	.0006	.006	.0026	1.72	.56	.42
%RSD	.0736	6.095	.1464	.6111	1.0711	.30730	.24324

#1	2.571	.0095	4.009	.4203	162.12	180.20	174.18
#2	2.570	.0104	4.018	.4183	158.80	160.72	173.42
#3	2.574	.0093	4.020	.4234	159.71	181.31	174.12

Elem	Sb2068	Se1960	2066.1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-4.4368	.31119	-2.3448	-5.0320	-22.287	11.593	.0822
SDev	.5502	.40415	.5935	.0949	2.041	.492	.0016
%RSD	12.400	129.87	20.364	19.016	9.1580	4.2404	1.909

#1	-5.0498	.08344	-2.3844	-6.3808	-24.058	12.136	.0839
#2	-4.2748	.07781	-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	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2206	.1244	4.5917	.0290	.7621
SDev	.0002	.0001	2.0951	.0002	.0010
%RSD	.0826	.0852	45.650	.6051	.1271

#1	.2204	.1243	6.8555	.0289	.7613
#2	.2205	.1245	4.1933	.0292	.7618
#3	.2208	.1245	2.7234	.0289	.7632

N 0074

Analysis Report

Wed 02-26-97 02:32:14 PM

page 1

Method: PROFCLP2 Sample Name: XX0014

Operator: CGC

Run Time: 02/26/97 14:25:05

Comment: 9702250 2/27/97 CGC

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	1.1764	2.065	-1.38265	.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
Avg	.0006	.0006	.0067	.1317	1.736	2.162	1.793
SDev	.0001	.0002	.0001	.0007	.007	.005	.005
%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
Avg	.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	.0079	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	9.6791	9.1454

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	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	2.6264	7.6128	-.73967	-11.119	9.4883	.0406
#2	2.8662	2.7089	2.8867	1.1052	-3.6731	5.9948	.0421
#3	.43876	3.9046	4.0217	-1.3504	-6.9346	9.3157	.0430

Elem	Sr4215	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.0616	.0317	.05105	.0019	.1297
SDev	.0002	.0007	.66029	.0002	.0005
%RSD	.2646	2.186	1293.5	8.335	.3634

#1	.0618	.0323	.24537	.0020	.1302
#2	.0616	.0309	.59237	.0018	.1296
#3	.0614	.0317	-.68460	.0018	.1292

M 0075

Analysis Report

Wed 02-26-97 02:39:30 PM

page 1

Method: PROFCLP2 Sample Name: XX0013L
 Run Time: 02/26/97 14:32:22
 Comment: 9702235L 2p2747 CG2
 Mode: CONC Corr. Factor: 1

Operator: CGS

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.39572	4.712	25.432	.0577	.4657	.0001	16.91
SDev	.40354	.016	.579	.0004	.0009	.0000	.03
%RSD	45.051	.3392	2.2762	.7044	.1980	9.783	.2910

#1	-.84254	4.714	26.050	.0581	.4664	.0001	15.96
#2	-1.3232	4.726	25.344	.0573	.4660	.0001	15.90
#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
Avg	.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	.2323	6.927	1.747	2.538

Elem	Mn	Mo2020	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	.5313	.0017	.3520	.0891	33.694	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	.3563	.0898	33.754	38.553	36.955
#2	.5315	.0016	.3482	.0895	33.301	40.551	38.324
#3	.5304	.0014	.3515	.0892	33.528	37.700	36.311

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	-1.67523	-1.0950	-1.60913	-1.70859	-3.2385	-1.02513	.0156
SDev	1.30553	.8636	1.08726	1.73937	4.4604	1.97892	.0014
%RSD	193.35	80.697	176.49	245.47	137.73	7873.5	9.213

#1	.79889	-1.06849	.25133	1.0719	-1.5731	.65237	.0173
#2	-1.6855	-1.7431	-1.24764	-2.4037	-8.2920	1.5261	.0150
#3	-1.1391	-1.4533	-1.8311	-1.79397	.14955	-2.2538	.0146

Elem	Sr4215	Ti	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.0370	.0269	.37681	.0065	.1613
SDev	.0001	.0005	.38723	.0003	.0003
%RSD	.2305	1.788	44.163	4.587	.2063

#1	.0370	.0266	1.0677	.0063	.1621
#2	.0371	.0275	.43119	.0063	.1617
#3	.0370	.0267	1.1315	.0063	.1615

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Analysis Report

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page 1

Method: PROFCLP2 Sample Name: CCV2

Operator: CGS

Run Time: 02/26/97 14:39:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1390	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	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	2.609	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
Avg	2.583	2.570	2.568	2.512	51.82	92.27	51.06
SDev	.007	.005	.004	.003	.13	.18	.12
%RSD	.2776	.1969	.1618	.1184	.2440	.2132	.2342
#1	2.568	2.572	2.571	2.510	51.87	92.07	51.12
#2	2.588	2.573	2.570	2.512	51.91	92.34	51.14
#3	2.575	2.564	2.563	2.516	51.67	92.40	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	98.00	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
Avg	2.547	2.518	93.10	2.561	489.35	492.19	491.25
SDev	.004	.003	.22	.003	2.46	2.95	1.23
%RSD	.1373	.1314	.2615	.3072	.50355	.57864	.25052
#1	2.549	2.520	93.88	2.564	489.85	493.18	492.07
#2	2.550	2.520	93.32	2.567	486.68	494.42	491.84
#3	2.543	2.514	93.09	2.552	491.53	489.98	489.83
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.750		98.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2063	Se1950	2063/1	2063/2	1950/1	1950/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	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					

M 0077

Analysis Report

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Low 900.00 450.00

Elem	Sr4215	Tl	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	--	--	--	--	--	--

M 0078

Analysis Report

Wed 02-26-97 02:54:05 PM

page 1

Method: PROFCLP2 Sample Name: CCVL2

Operator: CGE

Run Time: 02/26/97 14:46:55

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	1.5504	.0040	.0009	.0013	.0535
SDev	.20785	.0066	1.7341	.0014	.0004	.0002	.0063
%RSD	139.03	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	.0023	.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	.0316
#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	Mo2000	Na	Ni	2003/1	2003/2	Pb2003
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	1.6894	.98533
%RSD	26.71	7.503	.2333	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	-2.8443	.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	1.8058	-1.5823	-1.1205	.90586	.0011
SDev	.72142	.61303	1.7269	.3348	.5527	.73155	.0005
%RSD	161.22	265.00	94.583	21.151	49.325	80.752	48.32
#1	.26998	.04250	3.2213	-1.2039	-1.6494	.88631	.0017
#2	-1.1728	-.26507	-1.10550	-1.7061	-1.1653	.18402	.0009
#3	-.43960	.91656	2.3617	-1.3385	-.54676	1.6467	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

M 0079

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	60.43333	--	--	--	--	--	--
%RSD	.1912382	--	--	--	--	--	--
#1	31645	--	--	--	--	--	--
#2	31626	--	--	--	--	--	--
#3	31532	--	--	--	--	--	--

Analysis Report

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Method: PROFCLP2 Sample Name: CCB2

Operator: CSE

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
Avg	-1.16359	.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
Avg	.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	90.06
#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	Pb203/1	Pb203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	.0004	.0002	.0403	.0006	-3.1159	2.7026	.76539
SDev	.0002	.0002	.0019	.0003	2.1611	1.4317	.39609
%RSD	41.14	109.12	9.553	51.53	69.007	52.975	52.011
#1	.0005	.0001	.0447	.0009	-3.7942	3.7217	1.2193
#2	.0003	.0004	.0393	.0003	-1.70740	1.0657	.47567
#3	.0002	.0000	.0371	.0003	-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	Te58/1	Te58/2	Te58/3	Te58/4	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	.87830	1.1562	2.9851	-1.17352	-1.12937	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	123.91	1336.
#1	.48013	1.3215	3.9110	-1.2330	-3.9589	3.9573	.0002
#2	.30037	1.5776	1.8096	-.45352	5.7155	-.48862	.0016
#3	1.3550	.56960	3.2347	1.1657	-2.1447	1.9243	-.0023
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	3.0000					

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Analysis Report

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Low -60.000 -5.0000

Elem	Sr4215	Ti	Ti1903	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	-.0001	.0006	1.6269	.0003	.0005
SDev	.0000	.0002	.4017	.0001	.0001
%RSD	67.27	35.80	24.689	10.35	17.88

#1	-.0000	.0008	1.9846	.0003	.0006
#2	-.0000	.0006	1.7035	.0007	.0005
#3	-.0001	.0004	1.1924	.0003	.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	--	--	--	--	--	--
Avg	31078	--	--	--	--	--	--
SDev	87.25892	--	--	--	--	--	--
%RSD	.2807733	--	--	--	--	--	--
#1	31072	--	--	--	--	--	--
#2	31163	--	--	--	--	--	--
#3	30394	--	--	--	--	--	--

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: B60240

Operator: CGC

Run Time: 02/26/97 15:01:30

Comment: 9702305 010707 CGC

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.32348	6.555	1.8736	-.0001	.0263	.0005	.8271
SDev	.52565	.022	.1825	.0003	.0002	.0000	.0030
%RSD	160.03	.3426	9.7160	215.1	.6695	7.112	.3679
#1	-.92805	6.572	1.6398	.0001	.0234	.0005	.8284
#2	-.11052	6.564	2.0541	-.0005	.0234	.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
Avg	-.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	.0045	.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
Avg	.1766	.0312	.1875	.0133	2.5654	3.1408	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	3.9631	6.8391
#2	.1771	.0313	.1897	.0131	1.8959	9.3906	6.8952
#3	.1759	.0303	.1853	.0137	3.0663	6.0625	5.0691

Elem	Sb2063	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	.83174	.62249	3.6578	-.37939	-3.6986	2.7795	.0058
SDev	1.0849	.97130	.03803	1.18600	2.9122	.6207	.0017
%RSD	171.73	156.03	26.801	134.87	78.734	22.333	29.30
#1	.81112	1.1041	3.4329	-.37321	-3.6519	3.4782	.0041
#2	1.3496	-.49530	4.7138	-.03047	-6.6342	2.5689	.0075
#3	-.56551	1.2589	2.7767	-2.2345	-.81032	2.2915	.0059

Elem	Sr4215	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.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 0083

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Method: PROFCLP2 Sample Name: B60240D

Operator: CGJ

Run Time: 02/26/97 15:09:47

Comment: 97013050 211747 43

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	-.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	.2999	.1595	.1139

#1	-.17547	6.829	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
Avg	-.0002	.0046	.0423	.0147	21.99	1.070	1.881
SDev	.0000	.0003	.0004	.0001	.02	.001	.003
%RSD	13.38	7.112	.3509	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	1.879

Elem	Mn	Mo2020	Na	Ni	2003/1	2003/2	Pb2003
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	.1896	.0106	.1966	.0114	3.6380	7.7028	6.3496
SDev	.0002	.0004	.0011	.0006	2.1290	1.8170	.5199
%RSD	.0892	3.437	.5404	5.734	58.492	23.588	8.1372

#1	.1900	.0109	.1977	.0110	3.3520	8.6457	6.7167
#2	.1897	.0103	.1964	.0121	6.0472	5.6082	5.7547
#3	.1897	.0102	.1956	.0110	2.0149	9.9544	6.5771

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	.58166	.72929	3.9713	-1.1111	-3.2496	2.7154	.0036
SDev	.43523	1.1313	2.4346	.5498	1.9567	1.1052	.0009
%RSD	74.844	152.01	61.360	49.396	59.138	40.702	21.30

#1	.53542	-.37305	3.0632	-.72702	-5.3898	2.1307	.0033
#2	.11115	.58436	2.0689	-1.86663	-2.3025	2.0253	.0044
#3	1.0984	1.9766	6.7825	-1.7397	-2.0573	3.9901	.0030

Elem	Br4215	Tl	Tl1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avg	.0015	.3389	2.4305	.0220	.0295
SDev	.0001	.0004	1.1317	.0004	.0000
%RSD	3.252	.1054	46.622	1.668	.1475

#1	.0015	.3392	1.1792	.0222	.0295
#2	.0015	.3389	3.2338	.0222	.0296
#3	.0016	.3385	3.0286	.0216	.0295

M 008.4

Analysis Report

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Method: PROFCLP2 Sample Name: B602403

Operator: CGS

Run Time: 02/26/97 15:16:05

Comment: 97023065 2/17/97 CGS

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	.7099

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	16.39	1.059	1.459

Elem	Mn	Mo2020	Na	Ni	Pb203/1	Pb203/2	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	.18908	.19845

#1	.6499	.0058	.1759	.4955	472.43	478.48	476.46
#2	.6507	.0043	.1736	.4980	477.44	477.37	477.39
#3	.6497	.0050	.1747	.4975	476.77	479.15	478.36

Elem	Sb2066	Se1960	Te68/1	Te68/2	Te68/3	Te68/4	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	373.56	1811.7	373.34	371.17	1789.5	1822.7	.0063
SDev	.37	4.3	3.21	2.15	10.4	5.3	.0000
%RSD	.09612	.26278	.84866	.57931	.58206	.29006	.5603

#1	373.36	1806.2	373.77	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	1829.7	.0062

Elem	Sr4215	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0025	.3232	1835.0	.4902	.5263
SDev	.0000	.0004	2.6	.0008	.0009
%RSD	.3245	.1372	.14151	.1739	.1676

#1	.0025	.3281	1833.2	.4910	.5267
#2	.0024	.3288	1839.0	.4905	.5277
#3	.0025	.3279	1833.9	.4893	.5260

M 0085

Analysis Report

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Method: PROFCLP2 Sample Name: B60240L

Operator: CGE

Run Time: 02/26/97 15:23:22

Comment: 9702305L 1117/47002

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	.33834	-.0001	.0062	.0000	.1809
SDev	.48622	.004	1.1456	.0003	.0002	.0000	.0006
%RSD	72.974	.2793	128.96	279.0	3.538	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	.2232	.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	.2236	.3519
#3	-.0002	.0007	.0166	.0030	3.465	.2238	.3474

Elem	Mn	Mo2020	Na	Ni	Pb203/1	Pb203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0360	.0060	.0720	.0026	-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	.0735	.0033	-4.2979	3.4590	.97637
#3	.0357	.0062	.0709	.0027	-4.3998	6.4739	2.9533

Elem	Sb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-.89429	1.4343	4.2667	-3.4713	-1.3565	2.8280	-.0002
SDev	1.45049	.3903	1.8644	2.8235	1.7232	1.3019	.0021
%RSD	162.19	27.202	43.698	81.482	127.03	46.039	1055.

#1	.76386	.93412	2.7565	-.23136	-.15178	1.5508	.0019
#2	-1.5189	1.6616	6.3505	-5.4482	-3.2303	4.1534	-.0003
#3	-1.9278	1.6587	3.6929	-4.7344	-5.6840	2.7796	-.0022

Elem	Sr4215	Ti	Ti1908	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	1.2993	.0043	.0074

M 0086

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: B60240P

Operator: CGS

Run Time: 02/26/97 15:30:39

Comment: 9702305P 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	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	.0299	.0106	.8332
#2	19.208	6.542	23.213	.0003	.0284	.0105	.8281
#3	19.046	6.555	23.102	.0005	.0235	.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	.3993	.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	.0630	17.60	1.122	1.714

Elem	Mn	Mo2000	Na	Ni	Pb208/1	Pb208/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.2075	.0311	.1866	.0949	10.117	12.625	11.790
SDev	.0009	.0003	.0013	.0003	.439	.923	.498
%RSD	.4173	1.126	.7030	.7966	4.3413	7.3134	4.2216

#1	.2085	.0308	.1872	.0958	10.028	12.227	11.495
#2	.2069	.0314	.1875	.0946	10.593	11.967	11.510
#3	.2071	.0310	.1862	.0943	9.7282	13.390	12.364

Elem	Sb2068	Se1860	Te2068/1	Te2068/2	Th2068/1	Th2068/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	120.69	10.670	125.35	118.36	6.2281	12.687	.0078
SDev	3.26	.366	3.07	3.37	1.3817	.253	.0043
%RSD	2.7039	3.4276	2.4514	2.8607	22.184	1.9635	54.95

#1	123.56	10.762	127.76	121.46	6.1110	13.114	.0067
#2	117.14	10.966	121.89	114.77	7.6546	12.614	.0126
#3	121.37	10.261	126.40	118.96	4.9089	12.933	.0042

Elem	Sr4215	Ti	Ti1903	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0035	.3470	22.969	.1202	.0718
SDev	.0000	.0013	.604	.0005	.0003
%RSD	.7300	.5282	2.6317	.3902	.4703

#1	.0035	.3491	22.525	.1207	.0722
#2	.0035	.3453	23.658	.1198	.0716
#3	.0035	.3461	22.725	.1200	.0716

M 0087

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: B60223

Operator: JGG

Run Time: 02/26/97 15:37:56

Comment: 9701040 11/27/97 JGG

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1390	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	136.79	14.62	75.185	.0276	.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	76.234	.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	6.339	.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	Pb203/1	Pb203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.3186	.0244	2.377	.0357	14.801	25.457	21.909
SDev	.0003	.0002	.0009	.0001	1.882	.289	.789
%RSD	.0842	.8143	.3667	.1289	12.713	1.1304	3.5992

#1	.3183	.0242	2.373	.0357	13.370	25.432	21.416
#2	.3188	.0244	2.363	.0357	14.100	25.180	21.493
#3	.3187	.0246	2.335	.0357	16.932	23.757	22.812

Elem	Sb2065	Se1960	Si2068/1	Si2068/2	Te2060/1	Te2060/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	2.2109	1.7135	6.0504	.14337	-.04352	2.5978	-.0365
SDev	.5107	1.4083	1.1328	.72074	2.25311	2.3633	.0019
%RSD	23.101	81.955	18.554	500.97	5176.7	90.994	5.301

#1	2.5434	.55664	5.7129	.96570	-1.9165	1.7909	-.0343
#2	1.6223	1.3139	5.6351	-.38066	2.4568	.74301	-.0373
#3	2.4664	3.2843	7.7133	-.15344	-1.67080	5.0593	-.0375

Elem	Sr4215	Ti	Ti1308	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.0479	.7216	5.6733	.0867	.7933
SDev	.0000	.0013	.5213	.0006	.0015
%RSD	.0174	.2511	9.3366	.6715	.1899

#1	.0479	.7216	5.6733	.0861	.7936
#2	.0479	.7234	5.4538	.0867	.7964
#3	.0479	.7216	4.6247	.0873	.7960

M 0055

Analysis Report

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page 1

Method: PROFCLP2 Sample Name: B60224

Operator: CGS

Run Time: 02/26/97 15:45:14

Comment: 9701041 212747 C C2

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	.6353	.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	.1353	156.6	9.114	11.46
SDev	.0001	.0001	.0015	.0011	.8	.055	.05
%RSD	4.315	.6201	.4985	.7790	.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	Mo2002	Na	Ni	Pb2003/1	Pb2003/2	Pb2003
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.7732	.0639	15.35	.0832	28.993	42.090	37.729
SDev	.0041	.0013	.03	.0013	.583	.117	.228
%RSD	.5342	2.002	.4944	1.524	2.0122	.27808	.59900

#1	.7695	.0630	15.76	.0818	28.961	42.219	37.805
#2	.7749	.0635	15.39	.0837	29.592	42.058	37.907
#3	.7762	.0654	15.39	.0842	28.426	41.992	37.475

Elem	Sr2003	Sr1960	Th2003.1	Th2003.2	Th2003/1	Th2003/2	Sr1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	3.0025	5.6786	7.7977	.60807	4.9847	4.5272	-.0483
SDev	1.0195	1.5531	3.0035	.19720	.6192	2.6375	.0008
%RSD	33.955	33.163	38.631	32.434	12.234	58.258	1.949

#1	4.1759	3.8321	11.292	.62274	5.0768	3.2103	-.0429
#2	2.3331	3.7350	5.1866	.40593	5.5920	2.3076	-.0429
#3	2.4985	5.4723	5.9047	.79755	4.2353	7.5633	-.0443

Elem	Sr4216	Ti	Ti1908	V	Zn
Units	ppm	ppm	ppb	ppm	ppm
Avge	.2645	.9792	6.3213	.1521	2.227
SDev	.0016	.0059	.3371	.0010	.1011
%RSD	.6133	.5985	4.9422	.6497	.4943

#1	.2627	.9726	6.7525	.1510	2.214
#2	.2651	.9815	7.1877	.1524	2.223
#3	.2653	.9834	6.5241	.1530	2.234

M 0089

Analysis Report

Wed 02-26-97 03:39:40 PM

page 1

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
Avg	19.545	.0160	20.311	.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
Avg	.0109	.1070	.0209	.0535	.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	Mo2000	Na	Ni	2203/1	2203/2	Pb2203
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	.0316	.0201	.0560	.0854	4.8735	7.0823	6.3472
SDev	.0001	.0004	.0004	.0002	.8684	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	5.7723

Elem	Sb2063	Se1960	2063/1	2063/2	1960/1	1960/2	Sn1999
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	125.66	9.4332	127.67	124.65	11.352	8.4746	.1639
SDev	.55	1.3523	.48	.73	1.501	1.0402	.0010
%RSD	.43440	14.341	.37402	.62449	13.225	22.394	.6130

#1	125.28	10.608	127.98	123.92	10.653	10.595	.1628
#2	125.42	9.7370	127.12	124.56	13.075	8.0697	.1645
#3	126.28	7.9543	127.01	123.47	10.323	6.7633	.1644

Elem	Sr4215	Ti	Ti1978	V	Zn
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1004	22.046	.1003	.0466
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

M 0090

Analysis Report

Wed 02-26-97 04:13:16 PM

page 1

Method: PROFCLP2 Sample Name: ICSAF

Operator: CGE

Run Time: 02/26/97 16:06:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1390	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	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
Avg	-.0006	.0034	.0002	-.0047	207.2	.0786	537.5
SDev	.0002	.0001	.0001	.0001	.5	.0030	.9
%RSD	33.40	2.311	75.74	2.129	.2710	3.837	.1761
#1	-.0003	.0033	.0003	-.0047	207.9	.0757	539.5
#2	-.0004	.0035	.0001	-.0048	207.0	.0817	537.2
#3	-.0005	.0034	.0001	-.0047	206.3	.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
Avg	.0089	.0014	.1156	.0037	-1.3392	2.3021	1.4234
SDev	.0002	.0006	.0010	.0001	.9910	1.9058	.9710
%RSD	2.110	42.90	.8560	2.042	73.995	68.048	68.221
#1	.0089	.0014	.1156	.0036	-1.51187	1.8619	1.0718
#2	.0088	.0007	.1159	.0036	-2.4375	4.9964	2.5212
#3	.0091	.0019	.1145	.0037	-1.0634	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	Sb2063	Se1960	2068/1	2068/2	1950/1	1950/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	-.02153	-.88082	.68037	-.37246	5.3866	-4.0102	-.0671
SDev	.21340	1.99941	2.5909	1.07849	3.1482	4.3403	.0050
%RSD	933.66	226.99	380.81	289.56	58.445	103.23	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	.13413	-1.5944	.52045	-.05903	4.1185	-4.4469	-.0646
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	3.0000					

M 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.:

Elements	Ag	Al	As1890	B	Ba	Be
Units	ppb	ppm	ppb	ppm	ppm	ppm
Avg	2.3916	510.6	1.1458	.0033	.0090	.0025
SD	.22481	.2694	.90111	.0006	.0001	0
RSD	9.4001	.0528	78.645	19.52	1.035	.4573
Elements	Ca	Cd	Co	Cr	Cu	Fe
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	554.9	-.0006	.0034	.0002	-.0047	207.2
SD	1.134	.0002	.0001	.0001	.0001	.5616
RSD	.2043	38.4	2.311	75.74	2.129	.271
Elements	K	Mg	Mn	Mo2020	Na	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0786	537.5	.0089	.0014	.1156	.0037
SD	.003	.9465	.0002	.0006	.001	.0001
RSD	3.837	.1761	2.11	42.9	.858	2.042
Elements	2203/1	2203/2	Pb2203	Sb2068	Se1960	2068/1
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3392	2.8021	1.4234	-.02158	-.88082	.68036
SD	.99095	1.9068	.97104	.2134	1.9994	2.5909
RSD	73.995	68.048	68.221	988.66	226.99	380.81
Elements	2068/2	1960/1	1960/2	Sn1899	Sr4215	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm
Avg	-.37246	5.3866	-4.0102	-.0671	-.4294	-.0133
SD	1.0785	3.1481	4.3403	.005	.0017	.0001
RSD	289.56	58.445	108.23	7.412	.3941	.4983
Elements	Tl1908	V	Zn	*Y		
Units	ppb	ppm	ppm			
Avg	4.9847	-.0001	.0006	29178.7		
SD	2.1428	.0003	.0001	53.9846		
RSD	42.988	244.5	8.951	.18501		

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original
ICSAF

Missing

Analysis Report

Wed 02-26-97 04:20:33 PM page

Method: PROFCLP2 Sample Name: ICSABF

Operator: CGZ

Run Time: 02/26/97 16:13:25

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1090	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	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	.5025	.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
Avg	.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	204.9	.0056	531.9
#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
Avg	.4837	.0453	.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	.0449	.0443	.9134	900.96	903.30	902.52
#2	.4827	.0418	.0469	.9111	897.71	900.74	899.73
#3	.4848	.0493	.0451	.9158	910.53	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	Sa1060	2068/1	2068/2	1960/1	1960/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	-6.7484	954.86	-4.5597	-7.8415	955.03	954.77	-.0690
SDev	2.8248	4.83	2.0823	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	-.0676
#2	-3.2965	950.92	-2.2334	-11.299	943.07	954.95	-.0695
#3	-3.4606	960.31	-6.3701	-9.5043	962.82	959.06	-.0693
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		1200.0					

M 0093

Analysis Report

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Low 300.00

Elem	Sr4215	Ti	Ti1903	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			300.00	.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	--	--	--	--	--	--

M 0094

Analysis Report

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Method: PROFCLP2 Sample Name: CCV3

Operator: JGE

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
Avg	987.34	50.23	484.19	2.503	2.457	2.511	52.40
SD	2.00	.07	2.25	.004	.003	.001	.06
%RSD	.20221	.1400	.46472	.1553	.1235	.0310	.1075
#1	986.79	50.36	486.36	2.498	2.455	2.512	52.46
#2	986.53	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
Avg	2.471	2.471	2.470	2.438	49.59	79.70	49.37
SD	.006	.000	.003	.003	.11	.08	.10
%RSD	.2347	.0058	.1098	.1353	.2256	.0973	.2041
#1	2.477	2.471	2.470	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	Pb2081	Pb2082	Pb2083
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avg	2.456	2.426	80.63	2.452	466.54	473.11	470.92
SD	.001	.004	.15	.004	1.17	.43	.35
%RSD	.0261	.1574	.1834	.1431	.25133	.09089	.05265
#1	2.457	2.400	80.37	2.456	465.31	473.33	470.66
#2	2.456	2.425	80.53	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		93.00	2.750			550.00
Low	2.250		72.00	2.250			450.00

Elem	Sb2063	Se1950	Te2068/1	Te2068/2	Te1950/1	Te1950/2	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	1006.1	483.41	1017.3	1000.3	479.46	485.39	4.988
SD	4.3	1.36	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					

M 0095

Analysis Report

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Low 900.00 450.00

Elem	Sr4215	T1	T11903	V	In
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	--	--	--	--	--	--

M 0096

Analysis Report

Wed 02-26-97 04:05:08 PM

page 1

Method: PROFCLP2 Sample Name: CCVL3
 Run Time: 02/26/97 16:28:00
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: CGZ

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avg	.54236	.0933	.73159	.0064	.0008	.0012	.1298
SDev	.21159	.0271	.94875	.0026	.0003	.0003	.0319
%RSD	39.012	29.06	129.63	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	.0039	.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
Avg	.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	19.24	28.62
#1	.0017	.0023	.0021	.0013	2.464	.0579	.1393
#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
Avg	.0013	.0014	2.687	.0020	-1.55462	.40465	.08553
SDev	.0004	.0006	.003	.0002	1.58925	1.4745	.46808
%RSD	32.52	39.00	.3071	12.54	266.54	364.27	547.30
#1	.0016	.0019	2.697	.0022	1.2564	-1.2353	-.40117
#2	.0012	.0017	2.683	.0019	-1.2938	.92938	.12523
#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
Avg	.25448	1.5406	-.73845	.74979	3.4118	.50597	.0029
SDev	.33384	.9562	1.77530	.36973	3.3662	2.6228	.0029
%RSD	131.18	62.070	240.41	51.973	98.662	432.93	99.08
#1	-.11601	.55326	-2.7483	1.1930	3.2707	-.80382	.0038
#2	.34752	1.6061	-.08002	.56073	6.9463	-1.0104	.0052
#3	.53192	2.4623	.61331	.49065	.11344	3.6321	-.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							

M 0097

Low

Elem	Sr4215	Ti	Tl1908	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avg	-1.0002	.0013	2.2957	.0016	.0021
SDev	.0001	.0002	.4640	.0004	.0002
%RSD	26.06	12.10	20.213	23.60	7.916

#1	-1.0003	.0015	2.2319	.0014	.0022
#2	-1.0002	.0013	1.8668	.0021	.0021
#3	-1.0002	.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	--	--	--	--	--	--
Avg	30999	--	--	--	--	--	--
SDev	117.5791	--	--	--	--	--	--
%RSD	.3793039	--	--	--	--	--	--
#1	30863	--	--	--	--	--	--
#2	31055	--	--	--	--	--	--
#3	31075	--	--	--	--	--	--

Analysis Report

Wed 02-26-97 04:42:26 PM

page 1

Method: PROFCLP2 Sample Name: CDB3

Operator: GGS

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	.56315	.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	98.07	93.26	54.22	20.15	21.35	16.19
#1	.0004	.0005	.0004	.0013	.0231	.0149	.0423
#2	.0005	.0000	.0000	.0004	.0183	.0108	.0311
#3	.0005	.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	Pb2081	Pb2082	Pb2083
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0004	.0003	.0477	.0005	-.44077	-.10913	-.21924
SDev	.0001	.0013	.0025	.0001	1.79700	1.22500	.22760
%RSD	32.39	73.33	6.291	16.68	407.70	1122.5	103.81
#1	.0004	.0006	.0486	.0005	.13934	-.62541	-.37042
#2	.0003	.0001	.0443	.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	Pb2068	Se1960	2068/1	2068/2	1960/1	1960/2	Sn1399
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avge	-1.0034	.26947	-2.0679	-.47937	3.0493	-1.1195	.0009
SDev	.7969	1.2963	3.4347	2.82054	.9499	1.4770	.0010
%RSD	79.024	481.05	166.10	587.77	31.155	132.05	109.9
#1	-1.1801	1.4203	-3.3023	-.12073	3.7787	.25594	.0014
#2	-.13958	-1.1299	-4.7145	2.1439	1.9747	-2.6802	-.0002
#3	-1.7055	.50896	1.6135	-3.4623	3.3923	-.93122	.0016
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	60.000	5.0000					

M 0039

Analysis Report

Wed 02-26-97 04:42:26 PM

page 2

Low -60.000 -5.0000

Elem	Sr4215	Ti	Ti1908	V	Sn
Units	ppm	ppm	ppb	ppm	ppm
Avge	-1.0001	.0005	2.1913	.0003	.0009
SDev	.0001	.0002	1.0292	.0003	.0001
%RSD	205.1	45.71	46.968	101.2	8.942

#1	-1.0001	.0005	2.7149	.0013	.0010
#2	-1.0001	.0002	1.0056	-1.0001	.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	36.87730	--	--	--	--	--	--
%RSD	.1261892	--	--	--	--	--	--

#1	30788	--	--	--	--	--	--
#2	30854	--	--	--	--	--	--
#3	30785	--	--	--	--	--	--

M 0100

H₉ DEC 124.wks

NDEC 01261

NDEC 124

NDEC B 0012

NDEC B 0122

MERCURY ANALYSIS LOGBOOK

Intensity Time

Blank 47 7:58

0.2 3852

1.0 18782

2.0 37942

5.0 94593

10.0 184187

H2M LABS, INC.

Cal. with prep 1/31/97

Source: High Purity

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	mq/kg	SAMPLE ID/NOTES
1		ICV	6.05	100.8%				TV = 6.00
2		ICB	<1.10					
3		CCV1	6.17	102.8%				TV = 6.00
4		CCB1	<1.10					
5		PB _u F	<1.10					
6		PB _u	<1.10					
7		PB _s	<1.10		.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	<1.10					0223AX
11		042	.52					B60224
12		033	.13		.24			B60219
13		033D	<1.10		.24			D
14	1	0335	1.14	101.0%	.24			S
15		CCV2	6.53	109.8%				
16		CCB2	<1.10					
17		9702043	<1.10					0224AX
18		235	.38		.21			XX0013
19		236	<1.10		.24			XX0014
20		440	<1.10					XX0025
21		616	<1.20					EEEEEE
22		617	<1.20					
23		618	.27					
24		044	.56					B60225
25		044D	.56					D

Performed By:

[Signature]

Date: 3/4/97

P 0033

M 0101

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	mq/kg	SAMPLE ID/NOTES
26	1	97020445	1.62	106.0%				B60225 S
27		CCV3	6.38	106.3%				
28		CCB3	<1.10					
29		9702619	<1.20					zzzzzz
30		620	<1.20					↓
31		621	<1.20					
32		622	.37					
33		623	<1.20					
34		624	<1.20					
35		625	<1.20					
36		045	<1.10					0225 AX
37		045D	<1.10					D
38	1	0455	1.05	105.0%				S
39		CCV4	6.14	102.3%				
40		CCB4	<1.10					
41		9702626	<1.20					zzzzzz
42		627	<1.20					↓
43		628	<1.20					
44		629	<1.20					
45		630	<1.20					
2		631	<1.20					
3		141	.65		.22	12.5	2.4 mg/Kgm	↓
4		305	<1.10		.23			B60240
5		305D	<1.10		.23			D
6	1	3055	1.12	112.0%	.23			S

M 0102

P 0034

H2M LABS, INC.

MERCURY ANALYSIS LOGBOOK

ELEMENT	Hq	
1. Name of element		
2. Description of element		
3. Location of element		
4. Date of element		
5. Name of element		
6. Description of element		
7. Location of element		
8. Date of element		
9. Name of element		
10. Description of element		
11. Location of element		
12. Date of element		
13. Name of element		
14. Description of element		
15. Location of element		
16. Date of element		
17. Name of element		
18. Description of element		
19. Location of element		
20. Date of element		
21. Name of element		
22. Description of element		
23. Location of element		
24. Date of element		
25. Name of element		
26. Description of element		
27. Location of element		
28. Date of element		
29. Name of element		
30. Description of element		
31. Location of element		
32. Date of element		
33. Name of element		
34. Description of element		
35. Location of element		
36. Date of element		
37. Name of element		
38. Description of element		
39. Location of element		
40. Date of element		
41. Name of element		
42. Description of element		
43. Location of element		
44. Date of element		
45. Name of element		
46. Description of element		
47. Location of element		
48. Date of element		
49. Name of element		
50. Description of element		
51. Location of element		
52. Date of element		
53. Name of element		
54. Description of element		
55. Location of element		
56. Date of element		
57. Name of element		
58. Description of element		
59. Location of element		
60. Date of element		
61. Name of element		
62. Description of element		
63. Location of element		
64. Date of element		
65. Name of element		
66. Description of element		
67. Location of element		
68. Date of element		
69. Name of element		
70. Description of element		
71. Location of element		
72. Date of element		
73. Name of element		
74. Description of element		
75. Location of element		
76. Date of element		
77. Name of element		
78. Description of element		
79. Location of element		
80. Date of element		
81. Name of element		
82. Description of element		
83. Location of element		
84. Date of element		
85. Name of element		
86. Description of element		
87. Location of element		
88. Date of element		
89. Name of element		
90. Description of element		
91. Location of element		
92. Date of element		
93. Name of element		
94. Description of element		
95. Location of element		
96. Date of element		
97. Name of element		
98. Description of element		
99. Location of element		
100. Date of element		

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
7		CCV5	6.26	104.3%				
8		CCB5	<1.10					
9		9702431	<1.20		.21			ZZZZZZZ
10		687	<1.20					
11		688	<1.20					
12		689	<1.20					
13		690	<1.20					
14		691	<1.20					
15		708	<1.20					
16		438	<1.10					XX0023
17		438D	<1.10					D
18	1	438S	1.01	101.0%				S
19		CCV6	6.08	101.3%				
20		CCB6	<1.10					
21		970234	.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	<1.10					

M 0203

P 0035

H2M LABS, INC.

SDG NO.:

DATE:

ANALYST:

ELEMENT:

GENERAL

METALS QC CHECKLIST

YES	NO	NA
✓		

1. ICD, 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

William Fittman

07:58:58 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 1

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		

M 0205

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

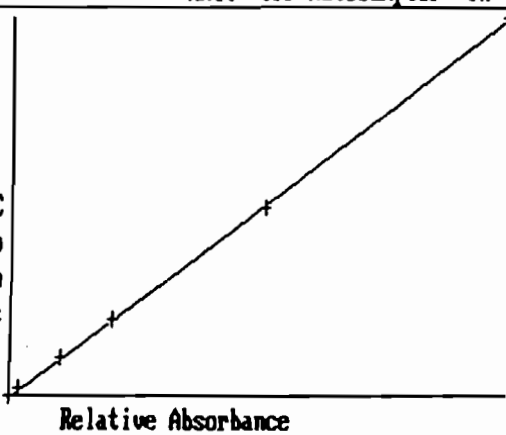
State: Idle

Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line:	Hg	Accepted
Conc.	Calc.	Dev.
LiNear		
S1	.000	-.029
S2	.200	.177
S3	1.00	.906
S4	2.00	2.02
S5	5.00	5.09
S6	10.0	9.95
A	.0000000	r .999989
B	5.41870e-5	C -3.19157e-2

	Mean	%RSD	
S1	47	0	47
S2	3052	0	3052
S3	18782	0	18782
S4	37942	0	37942
S5	94593	0	94593
S6	184187	0	184187



New calibration coefficients stored

08:14:13 31 Jan 1997

Folder: HGDEC124

Page 2

Protocol: MERCURY

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				

M 0107

08:42:43 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 3

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

09:09:59 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 4

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				

M 0109

09:37:03 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 5

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				

M 0110

10:04:17 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

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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				

M 0111

10:31:44 31 Jan 1997

Folder: HGDEC124
Protocol: MERCURY

Page 7

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				

M 0112

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 Slant 20:03*

CLIENT: NDEC B - NDEC
SDG #: 0012 - 124
MATRIX: SOIL
METHOD: CPA 570 - AC70

ANALYST SIGNATURE: *[Signature]*
DATE: Feb 18, 97

SAMPLE ID#	LAB NO.	DIG TYPE	INITIAL VOL.	FINAL VOL.	SPIKE/ NOTES	DESCRIPTION* BEFORE	AFTER
0012 MS/	9702234	FE	1.00g	100ul		DRY GREY COARSE	THINSE YELLOW clean
↓ MSB	↓	↓	↓	↓	↓	↓	↓
0013	35				Dup Spike + 1.0ml LOT # 690423 High purity		YELLOW clean
0014	36					BROWN WET FINE	colorless clean
	Blank					colorless clean	↓
	LCS	↓	↓	↓	(LOT 230 ERA)	BROWN FINE	YELLOW clean
B60240 MS/	9702305	FE	1.00g	200ul		BROWN MEDIUM	colorless clean
↓ MSB	↓	↓	↓	↓	↓	↓	↓
	Blank				Dup Spike + 2.0ml LOT # 690423 High purity	colorless clean	↓
	LCS	↓	↓	↓	(LOT 230 ERA)	BROWN FINE	LITE YELLOW clean

NDEC 0012

NDEC 124

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.

P 0059

M 011

Hg DEC 124. wks NDEC 01261
H2M LABS, INC. NDEC 124
 Digestion 12:00-14:00 NDEC B0012
 NDEC B 0122

NAME: William F. Patton
 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			
LCVI	TV=6.00		0.6ml/100			
LCBI			100			
PBW			100			
PBS		.20				
LCS	ERA230	.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 F. Felt
DATE: 1/30/97

HG DIGESTIONS

LAB NO.	CLIENT ID	SAMPLE WEIGHT GRAMS	SAMPLE VOLUME MLS	FINAL VOLUME MLS	DILUTION FACTOR	SPIKE
97023055	B602405	.23		100		1
438	XX0023		100			
438D	D					
4385	S					1
234	XX0012	.20				
234D	D	.20				
2345	S	.20				1
Cal with prep 1/31/97						
0.2 ppb			104.2/100	100		
1.0			110.2/100			
2.0			120.2/100			
5.0			150.2/100			
10.0			1.0ml/100			

P 0064 M 0216

NDEC
#123, #124

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 11:45 AM
8:30 (21)

END TIME: 8:30 (30)

DATE: 1/29/97

ANALYST: MFM

LAB# 9702300 (860231)	PAN/CRUCIBLE NJ		LAB# 9702303 (860234)	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 - 1.3080	-IGNITED WEIGHT -
=SAMPLE WEIGHT 8.8481	=SOLID WEIGHT 8.6051	=VOLATILE WEIGHT =	=SAMPLE WEIGHT 10.9248	=SOLID WEIGHT 10.5369	=VOLATILE WEIGHT =
LAB# 9702301 (860232)	PAN/CRUCIBLE NJ		LAB# 9702304 (860236)	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 (860233)	PAN/CRUCIBLE NH		LAB# 9702305 (860240)	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 9.345	=SOLID WEIGHT 9.0979	=VOLATILE WEIGHT =	=SAMPLE WEIGHT 10.6848	=SOLID WEIGHT 10.4575	=VOLATILE WEIGHT =

P 0016

M 011

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 11:45 (29)

ND TIME: 8:30 (30)

NDEC
#123, #124

DATE: 1/30/97

ANALYST: MFM

LAB#	9702306 (B00241)	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	INITIAL WEIGHT	12.6461	DRY WEIGHT	12.2380
-TARE WEIGHT	-1.3154	-TARE WEIGHT	-1.3158	-TARE WEIGHT	-1.3123	-TARE WEIGHT	-1.3123
=SAMPLE WEIGHT	=9.6492	=SOLID WEIGHT	=9.4897	=SAMPLE WEIGHT	=11.3338	=SOLID WEIGHT	=10.9257
AB#	9702307 (B00242)	PAN/CRUCIBLE	ND	AB#	9702305 DUP	PAN/CRUCIBLE	NZ
TS	96.9%	%TVS		TS	97.8%	%TVS	RPD = 0.10
INITIAL WEIGHT	10.3530	DRY WEIGHT	10.0718	INITIAL WEIGHT	12.4957	DRY WEIGHT	12.2543
-TARE WEIGHT	-1.3093	-TARE WEIGHT	-1.3093	-TARE WEIGHT	-1.3163	-TARE WEIGHT	-1.3163
=SAMPLE WEIGHT	=9.0437	=SOLID WEIGHT	=8.7625	=SAMPLE WEIGHT	=11.1794	=SOLID WEIGHT	=10.938
VB#	9702306 (B00243)	PAN/CRUCIBLE	NC	VB#		PAN/CRUCIBLE	
%S	96.7%	%TVS		%TS		%TVS	MFM 1/30/97
INITIAL WEIGHT	10.5730	DRY WEIGHT	10.2692	INITIAL WEIGHT		DRY WEIGHT	
-TARE WEIGHT	-1.3194	-TARE WEIGHT	-1.3194	-TARE WEIGHT		-TARE WEIGHT	
=SAMPLE WEIGHT	=9.2536	=SOLID WEIGHT	=8.9498	=SAMPLE WEIGHT		=SOLID WEIGHT	

H2M LABS, INC.

CASE #: E1DC-10

SDG #: C124

SCAN: 16-10-15

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: 1/1/11

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

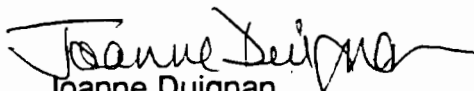
Dear Mr. Jones,

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\decret97.doc

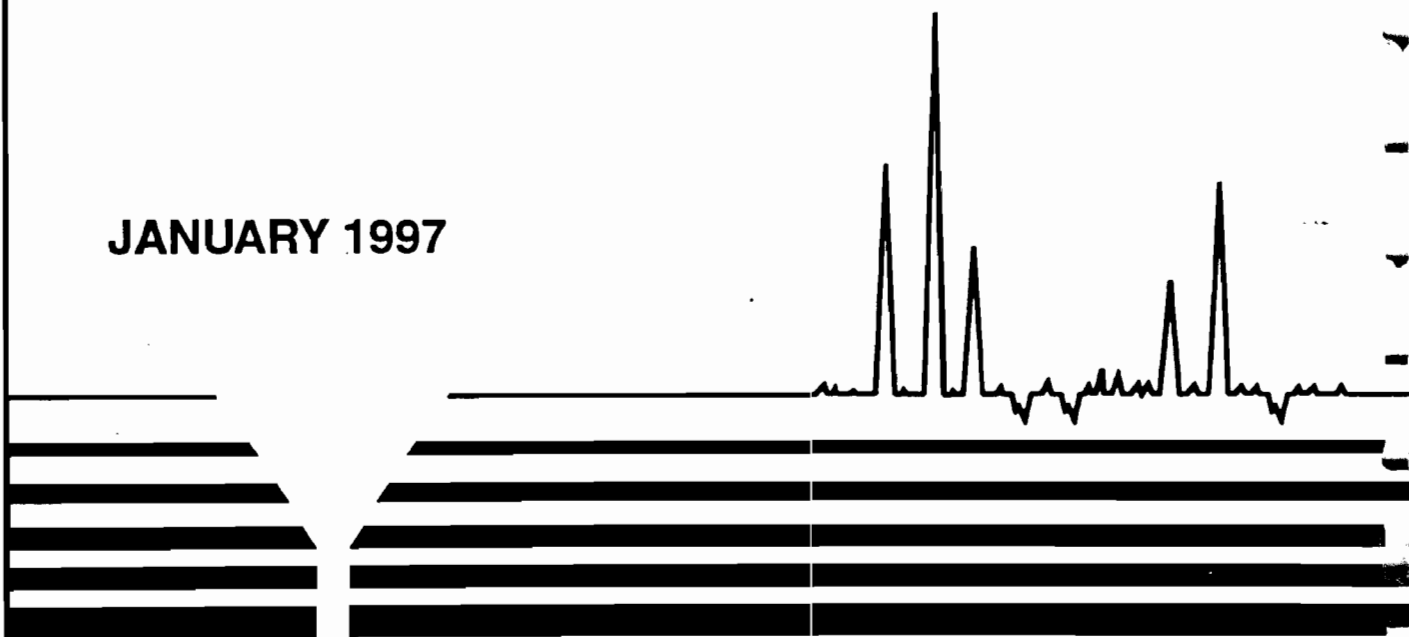
Analytical Data Package For

**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

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

I. NYS DEC SUMMARY FORMS

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYS DEC

CONTRACT NO.: C003180

CASE NO.: RA096

SAMPLES RECEIVED: 01/24/97

SDG NO: 0123

[illegible]

* 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

A 6094

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

* *Joann M. Slavin* *

Joann M. Slavin
Quality Assurance Manager

A 0006

H2M LABS, INC.

**III. CONTRACT LAB SAMPLE INFORMATION
SHEETS**

A 6097

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 in Soil/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:

516 467-1708

REGION NO:

1

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

RA 096

SDG NUMBER

0123

SAMPLE NUMBER

860226

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

- ☐ Grab
☐ Composite ☐ Term _____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category 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 6098



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 in Soil/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:

511-417-1708

REGION NO:

1

CONTRACT LAB:

HLM

COUNTY:

NASSAU

SAMPLING DATE:

6/23/97

MILITARY TIME:

15:00

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

K 0096

SDG NUMBER

0123

SAMPLE NUMBER

B 60227

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category 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 6009



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 in Soil/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. RSSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

TELEPHONE NUMBER

REGION NO.

CONTRACT LAB:

COUNTY:

SAMPLING DATE:

MILITARY TIME:

SAMPLE MATRIX:

- ☐ Ali ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

☐ Grab

RA 09 60123

R 60228

☐ This Sample☐ Composite☐ Term _____ hrs

Check if there will be more samples with this SDG sent in this calendar week

Report via Category 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

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 in Soil/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

518 437-1704

REGION NO

1

CONTRACT LAB

H. M.

COUNTY

N. Y.

SAMPLING DATE:

1/23/97

MILITARY TIME:

12:00

SAMPLE MATRIX:

- ☐ All ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA 0960123

SDG NUMBER

SAMPLE NUMBER

860229

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs

Check if there will be more samples with this SDG sent in this calendar week

Report via Category 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



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/PCBs (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/PCBs—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCBs—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/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/PCBs (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. RSG-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:

CONTRACT LAB:

COUNTY

SAMPLING DATE

MILITARY TIME

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

☐ Grab

RA 070

0123

R60230

☐ This Sample☐ Composite☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category 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

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/Basic/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 in Soil/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 + RSSR-01)
☐ 54 RSRO-01	☐ 55 RSSB-01	☐ 56 RSRR-01	☐ 57 RSRR-02	☐ 58 Other _____

COLLECTED BY

JG Jones

TELEPHONE NUMBER

516-457-1718

REGION NO.

1

CONTRACT LAB

11 M

COUNTY

Nassau

SAMPLING DATE

01/23/97

MILITARY TIME

14:50

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

0123

SAMPLE NUMBER

860231

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE

☐ Grab☐ Composite☐ Term _____ hrs

Check if there will be more samples with this SDG sent in this calendar week

Report via Category 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 C013



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/PCBs (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/PCBs—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCBs—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/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/PCBs (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. RSSB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.G. Jones

TELEPHONE NUMBER:

518 437 1708

REGION NO:

1

CONTRACT LAB:

H₂M

COUNTY:

N.Y.

SAMPLING DATE:

01/23/97

MILITARY TIME:

15:25

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

DA 046

SDG NUMBER

0123

SAMPLE NUMBER

B60232

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category 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 004

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 in Soil/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:

516.477.1700

REGION NO

1

CONTRACT LAB:

H.M.

COUNTY

N.Y.

SAMPLING DATE:

1/23/97

MILITARY TIME:

16:00

SAMPLE MATRIX:

- ☐ All ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA0960123

SDG NUMBER

SAMPLE NUMBER

060233

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

A 6015

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 in Soil/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:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H₂M

COUNTY:

Nassau

SAMPLING DATE:

1/23/97

MILITARY TIME:

16:35

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA1096

SDG NUMBER

0123

SAMPLE NUMBER

860234

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category 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

H2M LABS, INC.

IV. CHAIN OF CUSTODY DOCUMENTATION

A 0017

EXTERNAL CHAIN OF CUSTODY

0123/0124

NDEC

PROJ. NO.	PROJECT NAME	Refrigerator #	NOTES:		
RA096	Atlas Graphics		Soil		
SAMPLERS: (Signature)/Client					
A G Jones N1DEC					
DELIVERABLES:					
AC-70			9702300-308		
DATE	TIME	MATRIX	FIELD I.D.	LAB I.D. No.	REMARKS
12/27/97	14:05	Soil	R60231	01	AG-P-02 (S-7)
12/27/97	15:25	Soil	R60232	02	AG-P-03 (S-7)
12/27/97	16:00	Soil	R60233	03	AG-P-04 (S-7)
12/27/97	16:20	Soil	R60234	04	AG-P-05 (S-7)
12/27/97	16:45	Soil	R60235	05	AG-P-06 (S-7)
12/27/97	15:25	Soil	R60241	06	AG-P-07 (S-7)
12/27/97	15:25	Soil	R60242	07	AG-P-08 (S-7)
12/27/97	15:25	Soil	R60243	08	AG-P-09 (S-7)
12/27/97	16:05	Soil	R60244	09	AG-P-10 (S-7)
12/27/97	16:05	Soil	R60245	10	AG-P-11 (S-7)
12/27/97	16:05	Soil	R60246	11	AG-P-12 (S-7)
12/27/97	16:05	Soil	R60247	12	AG-P-13 (S-7)
12/27/97	16:05	Soil	R60248	13	AG-P-14 (S-7)
12/27/97	16:05	Soil	R60249	14	AG-P-15 (S-7)
12/27/97	16:05	Soil	R60250	15	AG-P-16 (S-7)
12/27/97	16:05	Soil	R60251	16	AG-P-17 (S-7)
12/27/97	16:05	Soil	R60252	17	AG-P-18 (S-7)
12/27/97	16:05	Soil	R60253	18	AG-P-19 (S-7)
12/27/97	16:05	Soil	R60254	19	AG-P-20 (S-7)
12/27/97	16:05	Soil	R60255	20	AG-P-21 (S-7)
12/27/97	16:05	Soil	R60256	21	AG-P-22 (S-7)
12/27/97	16:05	Soil	R60257	22	AG-P-23 (S-7)
12/27/97	16:05	Soil	R60258	23	AG-P-24 (S-7)
12/27/97	16:05	Soil	R60259	24	AG-P-25 (S-7)
12/27/97	16:05	Soil	R60260	25	AG-P-26 (S-7)
12/27/97	16:05	Soil	R60261	26	AG-P-27 (S-7)
12/27/97	16:05	Soil	R60262	27	AG-P-28 (S-7)
12/27/97	16:05	Soil	R60263	28	AG-P-29 (S-7)
12/27/97	16:05	Soil	R60264	29	AG-P-30 (S-7)
12/27/97	16:05	Soil	R60265	30	AG-P-31 (S-7)
12/27/97	16:05	Soil	R60266	31	AG-P-32 (S-7)
12/27/97	16:05	Soil	R60267	32	AG-P-33 (S-7)
12/27/97	16:05	Soil	R60268	33	AG-P-34 (S-7)
12/27/97	16:05	Soil	R60269	34	AG-P-35 (S-7)
12/27/97	16:05	Soil	R60270	35	AG-P-36 (S-7)
12/27/97	16:05	Soil	R60271	36	AG-P-37 (S-7)
12/27/97	16:05	Soil	R60272	37	AG-P-38 (S-7)
12/27/97	16:05	Soil	R60273	38	AG-P-39 (S-7)
12/27/97	16:05	Soil	R60274	39	AG-P-40 (S-7)
12/27/97	16:05	Soil	R60275	40	AG-P-41 (S-7)
12/27/97	16:05	Soil	R60276	41	AG-P-42 (S-7)
12/27/97	16:05	Soil	R60277	42	AG-P-43 (S-7)
12/27/97	16:05	Soil	R60278	43	AG-P-44 (S-7)
12/27/97	16:05	Soil	R60279	44	AG-P-45 (S-7)
12/27/97	16:05	Soil	R60280	45	AG-P-46 (S-7)
12/27/97	16:05	Soil	R60281	46	AG-P-47 (S-7)
12/27/97	16:05	Soil	R60282	47	AG-P-48 (S-7)
12/27/97	16:05	Soil	R60283	48	AG-P-49 (S-7)
12/27/97	16:05	Soil	R60284	49	AG-P-50 (S-7)
12/27/97	16:05	Soil	R60285	50	AG-P-51 (S-7)
12/27/97	16:05	Soil	R60286	51	AG-P-52 (S-7)
12/27/97	16:05	Soil	R60287	52	AG-P-53 (S-7)
12/27/97	16:05	Soil	R60288	53	AG-P-54 (S-7)
12/27/97	16:05	Soil	R60289	54	AG-P-55 (S-7)
12/27/97	16:05	Soil	R60290	55	AG-P-56 (S-7)
12/27/97	16:05	Soil	R60291	56	AG-P-57 (S-7)
12/27/97	16:05	Soil	R60292	57	AG-P-58 (S-7)
12/27/97	16:05	Soil	R60293	58	AG-P-59 (S-7)
12/27/97	16:05	Soil	R60294	59	AG-P-60 (S-7)
12/27/97	16:05	Soil	R60295	60	AG-P-61 (S-7)
12/27/97	16:05	Soil	R60296	61	AG-P-62 (S-7)
12/27/97	16:05	Soil	R60297	62	AG-P-63 (S-7)
12/27/97	16:05	Soil	R60298	63	AG-P-64 (S-7)
12/27/97	16:05	Soil	R60299	64	AG-P-65 (S-7)
12/27/97	16:05	Soil	R60300	65	AG-P-66 (S-7)
12/27/97	16:05	Soil	R60301	66	AG-P-67 (S-7)
12/27/97	16:05	Soil	R60302	67	AG-P-68 (S-7)
12/27/97	16:05	Soil	R60303	68	AG-P-69 (S-7)
12/27/97	16:05	Soil	R60304	69	AG-P-70 (S-7)
12/27/97	16:05	Soil	R60305	70	AG-P-71 (S-7)
12/27/97	16:05	Soil	R60306	71	AG-P-72 (S-7)
12/27/97	16:05	Soil	R60307	72	AG-P-73 (S-7)
12/27/97	16:05	Soil	R60308	73	AG-P-74 (S-7)
12/27/97	16:05	Soil	R60309	74	AG-P-75 (S-7)
12/27/97	16:05	Soil	R60310	75	AG-P-76 (S-7)
12/27/97	16:05	Soil	R60311	76	AG-P-77 (S-7)
12/27/97	16:05	Soil	R60312	77	AG-P-78 (S-7)
12/27/97	16:05	Soil	R60313	78	AG-P-79 (S-7)
12/27/97	16:05	Soil	R60314	79	AG-P-80 (S-7)
12/27/97	16:05	Soil	R60315	80	AG-P-81 (S-7)
12/27/97	16:05	Soil	R60316	81	AG-P-82 (S-7)
12/27/97	16:05	Soil	R60317	82	AG-P-83 (S-7)
12/27/97	16:05	Soil	R60318	83	AG-P-84 (S-7)
12/27/97	16:05	Soil	R60319	84	AG-P-85 (S-7)
12/27/97	16:05	Soil	R60320	85	AG-P-86 (S-7)
12/27/97	16:05	Soil	R60321	86	AG-P-87 (S-7)
12/27/97	16:05	Soil	R60322	87	AG-P-88 (S-7)
12/27/97	16:05	Soil	R60323	88	AG-P-89 (S-7)
12/27/97	16:05	Soil	R60324	89	AG-P-90 (S-7)
12/27/97	16:05	Soil	R60325	90	AG-P-91 (S-7)
12/27/97	16:05	Soil	R60326	91	AG-P-92 (S-7)
12/27/97	16:05	Soil	R60327	92	AG-P-93 (S-7)
12/27/97	16:05	Soil	R60328	93	AG-P-94 (S-7)
12/27/97	16:05	Soil	R60329	94	AG-P-95 (S-7)
12/27/97	16:05	Soil	R60330	95	AG-P-96 (S-7)
12/27/97	16:05	Soil	R60331	96	AG-P-97 (S-7)
12/27/97	16:05	Soil	R60332	97	AG-P-98 (S-7)
12/27/97	16:05	Soil	R60333	98	AG-P-99 (S-7)
12/27/97	16:05	Soil	R60334	99	AG-P-100 (S-7)



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

NDIC 0123/0124

PROJ. NO.	PROJECT NAME	Refrigerator #	Refrigerator	ANALYSIS REQUESTED	INORG.	LAB I.D. No.	REMARKS
DATE	TIME	MATRIX	FIELD I.D.	ORGANIC	INORG.		
1/23/97	17:25	Water	B60228	SOA	Met	9702290-2298	Water
1/23/97	17:25	Water	B60227	SOA	Met		
1/23/97	17:25	Water	B60226	SOA	Met		
1/23/97	17:25	Water	B60229	SOA	Met		
1/23/97	17:15	Water	B60235	SOA	Met	9702295	
1/24/97	17:30	Water	B60230	SOA	Met		
1/24/97	17:30	Water	B60237	SOA	Met		
1/24/97	17:30	Water	B60238	SOA	Met		
1/24/97	17:30	Water	B60239	SOA	Met		
1/24/97	17:30	Water	TRIP Blank	SOA	Met	9702299	

DELIVERABLES:	AC-70
TOTAL NO. OF CONTAINERS: 3	

PROJ. NO.	PROJECT NAME	Refrigerator #	Refrigerator	ANALYSIS REQUESTED	INORG.	LAB I.D. No.	REMARKS
RA046	Atlas Graphics						
SAMPLERS: (Signature)/Client T.L. Jones - NYSDIC							
DELIVERABLES: AC-70							

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time	PROJECT CONTACT:	LABORATORY USE ONLY
<i>T.L. Jones</i>	1/24/97	16:45				PHONE NUMBER:	Samples were: 1) Shipped ☒ or Hand Delivered ☒ Airbill # <i>66</i> 2) Ambient or Chilled ☒ 3) Recycled or Good Condition ☒ or N 4) Properly Preserved ☒ or N 5) Samples returned to lab. ☒ hours from Collection
						Discrepancies Between Sample Labels and COC Record? Y or N	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken at Outer Package Y or N 3) COC Record Present and Complete Upon Sample Rec'd. Y or N
						NOTES:	

ORIGINAL COPY

A 0018

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: AC-70 TURN AROUND TIME: Stand

SDG #: 123 CASE #: RA096 MATRIX: GM/50 pH CHECK Y or N (N)

REMARKS: _____

RECEIVED BY: TAJ SIGNATURE: [Signature] DATE: 1-24-97 TIME: 16:45

CLIENT ID.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
¹ B60226	9702290	1-23-97	AD	2	PUTCL
² B60227	291				
³ B60228	292				
⁴ B60229	293				
⁵ B60230	294				
⁶ B60231	9702300		A	1	
⁷ B60232	301				
⁸ B60233	302				
⁹ B60234	303				
¹⁰ 236 TAJ 1/24/97					
¹¹					
¹²					
¹³					
¹⁴					
¹⁵					
¹⁶					
¹⁷					
¹⁸					
¹⁹					
²⁰					

P 0031

A 0020

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory

575 Broad Hollow Road, Melville, N.Y. 11747-5076

(516) 894-3040

FAX: 516-894-4122

No 5560

EXTERNAL CHAIN OF CUSTODY

0122

PROJ. NO.	PROJECT NAME	Refrigerator #	SAMPLE CONTAINER DESCRIPTION	ANALYSIS REQUESTED	LAB I.D. No.	REMARKS
				ORGANIC	INORG.	
				Y	N	
DELIVERABLES:						
AS-70						
DATE	TIME	MATRIX	FIELD I.D.	Y	N	
1/22/97	14:35	water	B60220 (76-80)	2		9702037
1/22/97	15:15	water	B60221 (66-70)	2		
	15:10	water	B60222 (56-60)	2		
	15:12		B60225 (56-60)	2		
	15:14		B60225A (56-60)	2		
	15:15		B60224 (60-70)	2		
	15:17		B60224A (60-70)	2		
	14:45		B60223 (56-60)	2		
	14:45		B60223A (56-60)	2		
			Trip Blank	2		
Requisitioned by (Signature)				Received by (Signature)	Date	time
[Signature]				[Signature]	1/23/97	10:25
Requisitioned by (Signature)				Received by (Signature)	Date	time
[Signature]				[Signature]	1/23/97	10:25
Requisitioned by (Signature)				Received by (Signature)	Date	time
[Signature]				[Signature]	1/23/97	10:25

COPY ORIGINAL LOCATED

IN A 3/2/91

NOTES: Matix-GW

LAB I.D. No. 9702037

REMARKS: MS/MSD INCLUDED UNF

MS/MSD INCLUDED UNF

UNFILTERED

UNFILTERED

UNFILTERED

TRIP BLANK

PROJECT CONTACT: PHONE NUMBER: [blank]

Discrepancies Between Sample Labels and COC Record? Y or N

NOTES: [blank]

COE Type 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 4) Properly Preserved Y or N 5) Samples returned to Lab. ___ hours from Collection

ORIGINAL COPY

A 0033

SDG #: 123

[illegible]

A 6021

V. ANALYTICAL DATA PACKAGE

A. VOLATILES

PZM LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 11:45 (MFM) 4:30 (29)

END TIME: 8:30 (30)

Signature

DATE: 1/29/97

ANALYST: MFM

PAN/CRUCIBLE NJ				PAN/CRUCIBLE NC			
LAB# 9702300				LAB# 9702303			
%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 -1.3080	-IGNITED WEIGHT -	
=SAMPLE WEIGHT 8.8481	=SOLID WEIGHT 8.6051	=VOLATILE WEIGHT =		=SAMPLE WEIGHT 10.9248	=SOLID WEIGHT 10.5369	=VOLATILE WEIGHT =	
PAN/CRUCIBLE NJ				PAN/CRUCIBLE NF			
LAB# 9702301				LAB# 9702304			
%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 =	
PAN/CRUCIBLE NH				PAN/CRUCIBLE NA			
LAB# 9702302				LAB# 9702305			
%TS 97.4%	%TVS			%TS 97.9%	%TVS		
INITIAL WEIGHT 10.6596	DRY WEIGHT 10.4125	DRY WEIGHT		INITIAL WEIGHT 12.0003	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 9.345	=SOLID WEIGHT 9.0979	=VOLATILE WEIGHT =		=SAMPLE WEIGHT 10.6848	=SOLID WEIGHT 10.4573	=VOLATILE WEIGHT =	

0023

P 0016

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: _____ DATE: 1/30/97

END TIME: _____ ANALYST: MEH

LAB#	9702306	(PAN/CRUCIBLE) NE	LAB#	9702307 DUP	(PAN/CRUCIBLE) NB
%TS	98.3%	%TVS	%TS	96.4%	%TVS
INITIAL WEIGHT	10.9650	DRY WEIGHT	INITIAL WEIGHT	12.2380	DRY WEIGHT
-TARE WEIGHT	- 1.3158	-TARE WEIGHT	-TARE WEIGHT	- 1.3123	-TARE WEIGHT
=SAMPLE WEIGHT	= 9.6492	=VOLATILE WEIGHT	=SAMPLE 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	INITIAL WEIGHT	12.2543	DRY WEIGHT
-TARE WEIGHT	- 1.3093	-TARE WEIGHT	-TARE WEIGHT	- 1.3163	-TARE WEIGHT
=SAMPLE WEIGHT	= 9.0437	=VOLATILE WEIGHT	=SAMPLE WEIGHT	= 10.938	=VOLATILE WEIGHT
LAB#	9702308	(PAN/CRUCIBLE) NC	LAB#		(PAN/CRUCIBLE) MCM
%TS	96.7%	%TVS	%TS		%TVS
INITIAL WEIGHT	10.5730	DRY WEIGHT	INITIAL WEIGHT		DRY WEIGHT
-TARE WEIGHT	- 1.3194	-TARE WEIGHT	-TARE WEIGHT		-TARE WEIGHT
=SAMPLE WEIGHT	= 9.2536	=VOLATILE WEIGHT	=SAMPLE WEIGHT		=VOLATILE WEIGHT

H2M LABS, INC.

VOLATILE ORGANICS

TABLE OF CONTENTS

- I. QC SUMMARY**
- II. SAMPLE DATA PACKAGE**
- III. STANDARDS DATA PACKAGE**
- IV. RAW QC DATA PACKAGE**
- V. DOCUMENTATION**

H2M LABS, INC.

I. QC SUMMARY FOR VOLATILE ORGANICS

- A. SYSTEM MONITORING COMPOUND RECOVERY FORM
- B. ~~MSD FORM~~
- C. ~~MS/MSD FORM~~
- D. METHOD BLANK FORM
- E. GC/MS TUNING FORM
- F. INTERNAL STANDARD AREA AND RT SUMMARY
- 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.

VBK01

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: VBK27
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:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK01

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: VBK28
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:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

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:

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

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)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	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)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	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
1,2-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
1,2-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
1,1,1-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
1,2-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
trans-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
Bromoform	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
Tetrachloroethene	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
Ethylbenzene	4.71	5.22	5.04	4.84	4.67	4.26	5.69	0.45	7	50 ng
Xylene (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
1,1,2,2-Tetrachloroethane	4.96	5.74	5.71	5.47	4.29	5.61	6.51	0.70	11	50 ng

H2M LABS, INC.

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

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

and df = dilution factor

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

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

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 JJ.) 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.

H2M LABS, INC.

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.

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
 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)

Monitoring
well

NC-2D

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:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

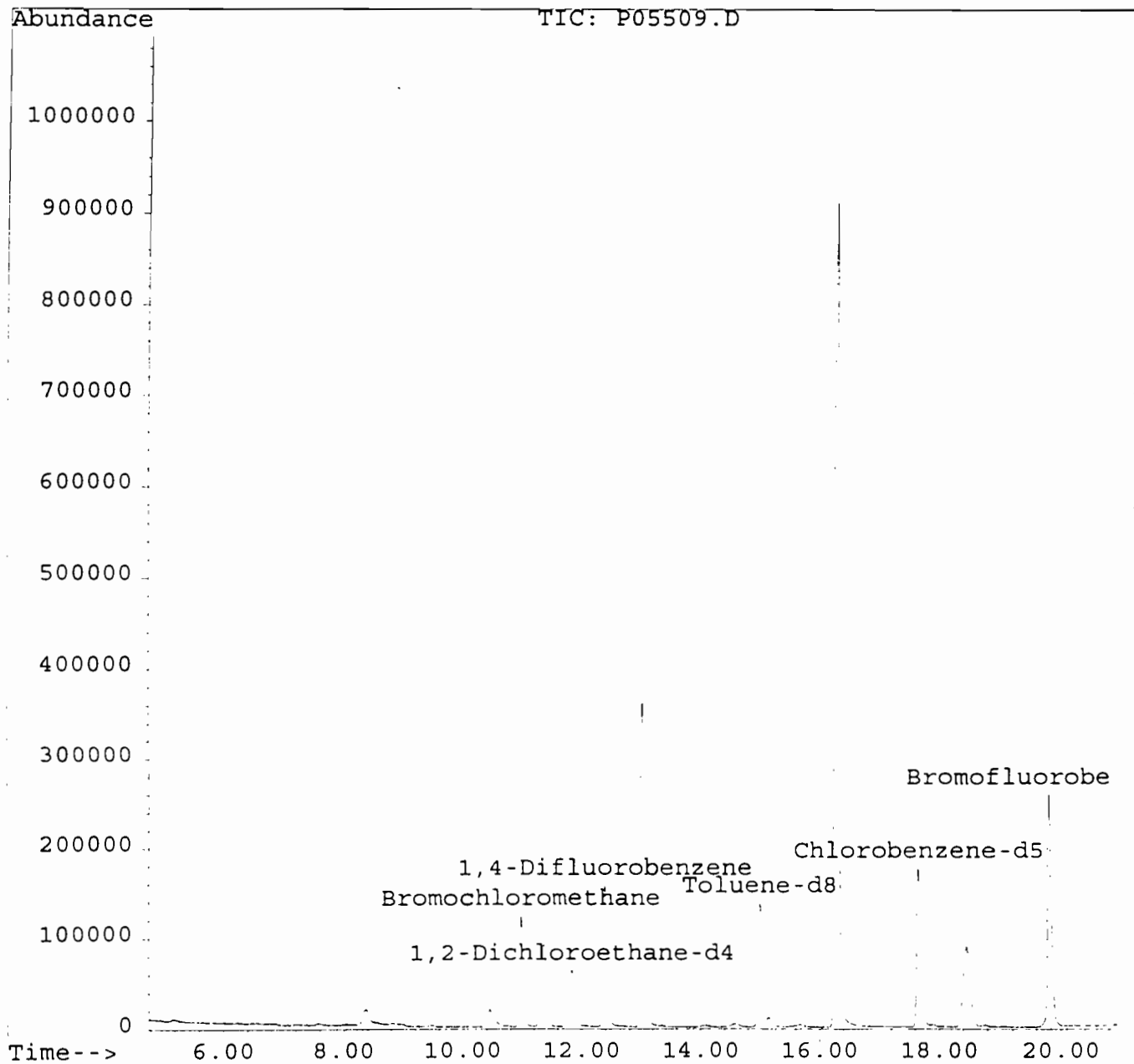
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.46	21	JN

Quantitation Report

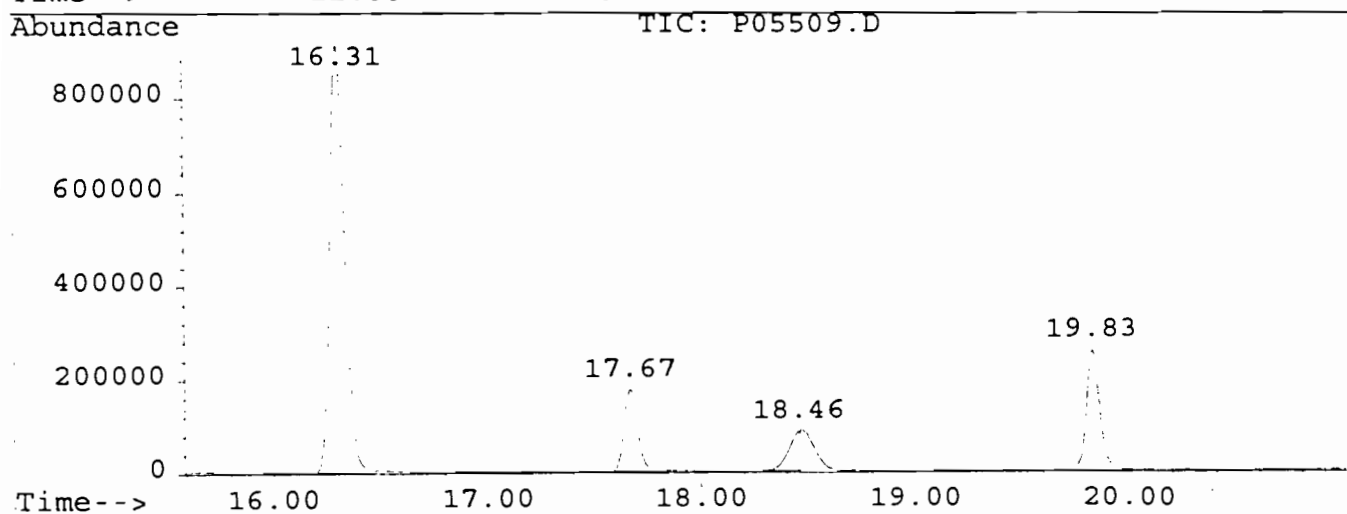
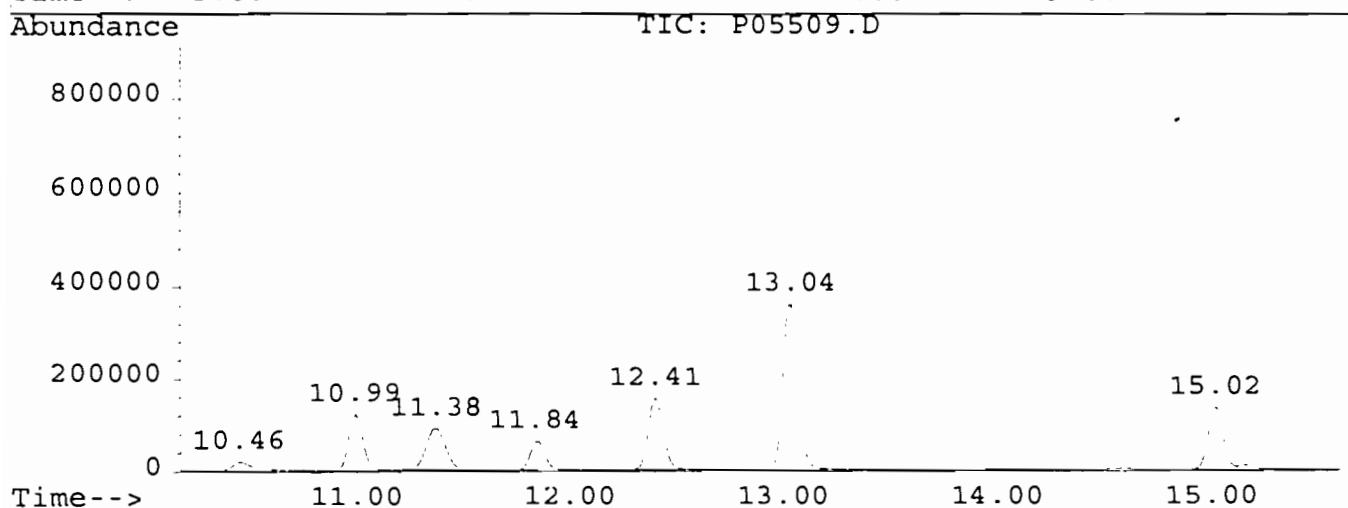
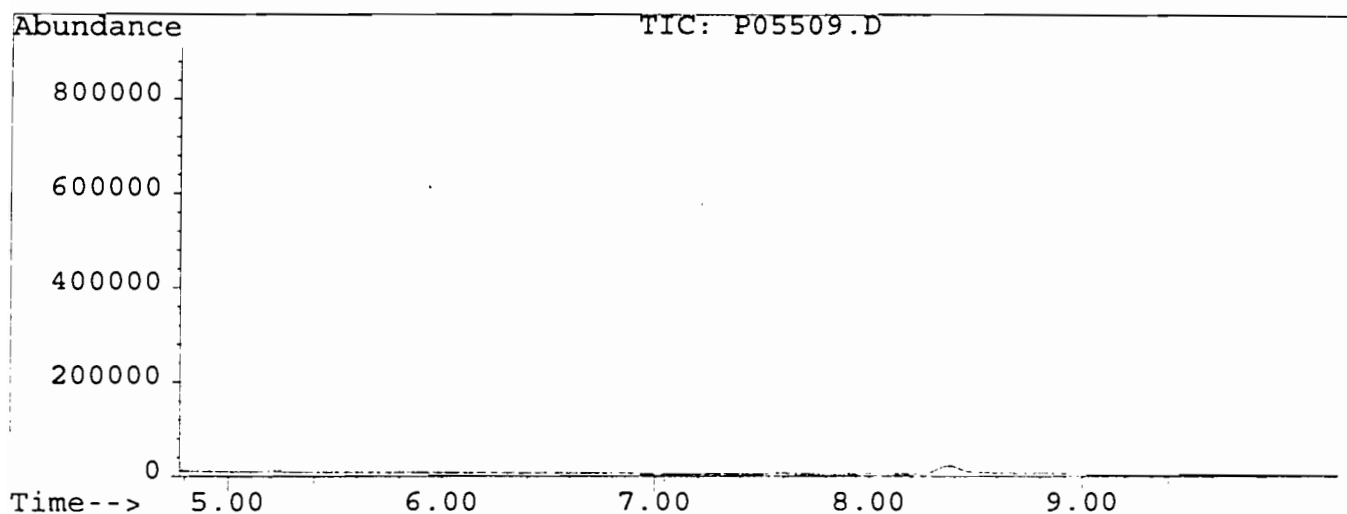
Data File : C:\HPCHEM\1\DATA\P05509.D
Acq On : 28 Jan 97 6:19 pm
Sample : 9702290
Misc : B60226 H5970-3 1/27/97 5.0ML
Quant Time: Feb 11 8:37 1997

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

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

P05509.D CLPW.M

Tue Feb 11 08:56:55 1997

MASSPEC1

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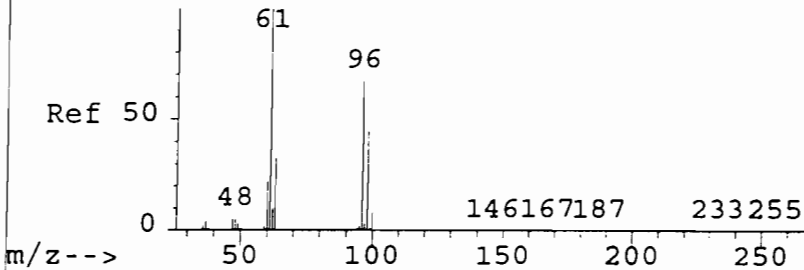
V 0027

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

AbundanceScan 1032 (10.682 min): P05322.D (

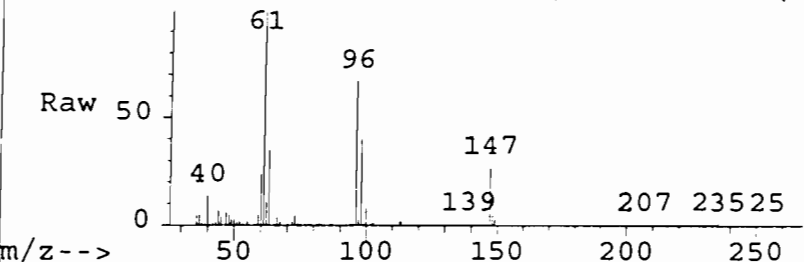


#14

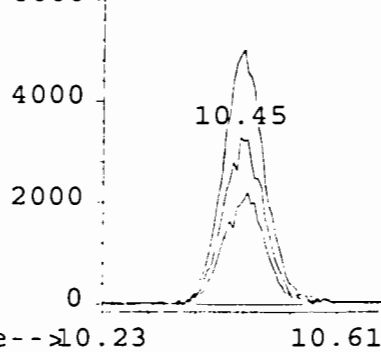
cis-,1,2-Dichloroethene
Concen: 5.58 UG/L
RT: 10.45 min Scan# 992
Delta R.T. 0.04 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

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

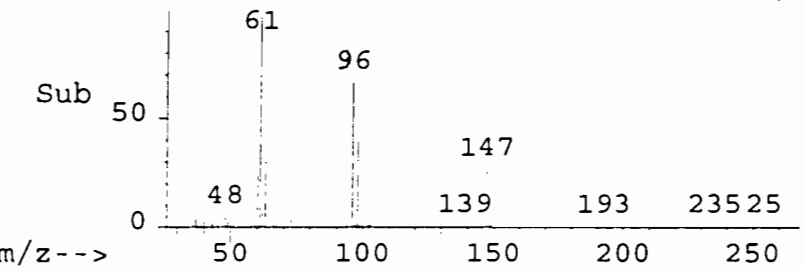
AbundanceScan 992 (10.451 min): P05509.D (*)



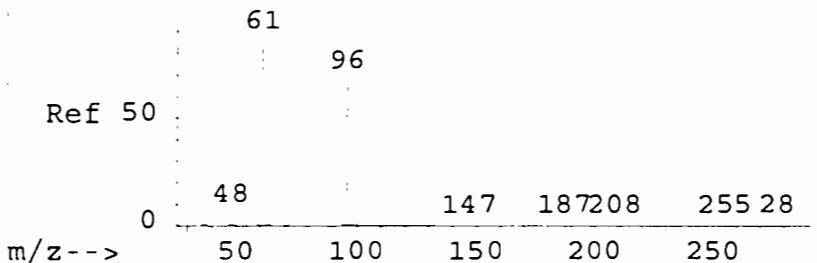
AbundanceIon 95.85 (95.
Ion 97.95 (97.
Ion 60.90 (60.



AbundanceScan 992 (10.451 min): P05509.D (-



AbundanceScan 1032 (10.682 min): P05322.D (

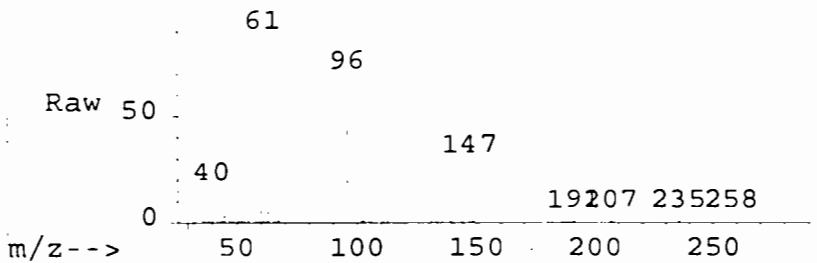


#15

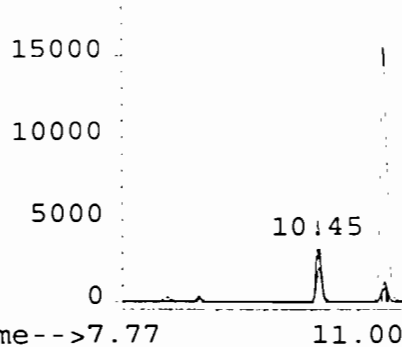
1,2-Dichloroethene (total)
Concen: 6.92 UG/L m
RT: 10.45 min Scan# 992
Delta R.T. 1.65 min
Lab File: P05509.D
Acq: 28 Jan 97 6:19 pm

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

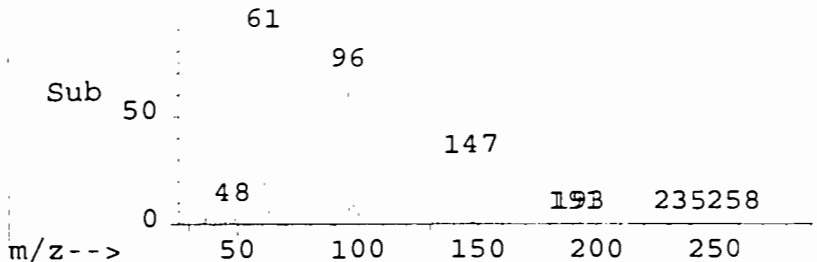
AbundanceScan 992 (10.451 min): P05509.D (*)



AbundanceIon 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



AbundanceScan 992 (10.451 min): P05509.D (-



Sample Name: 9702290

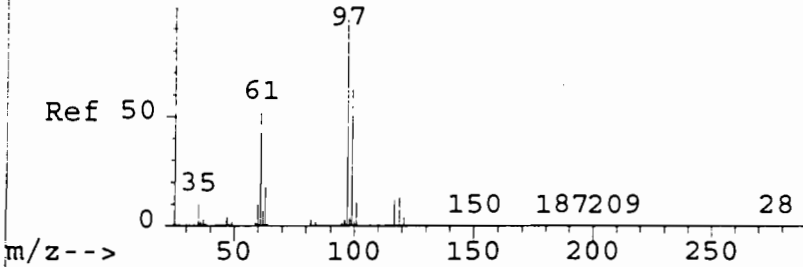
Misc. Info: B60226 H5970-3 1/27/97 5.0ML
P05509.D CLPW.M Tue Feb 11 08:57:03 1997

MASSPEC1

Page 3

0026

AbundanceScan 1193 (11.604 min): P05322.D (



#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

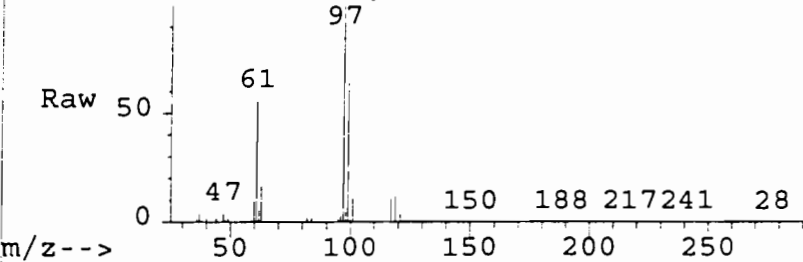
97 100

99 64.5 46.6 86.6

61 55.5 27.5 67.5

0 0.0 0.0 0.0

AbundanceScan 1154 (11.378 min): P05509.D (



AbundanceIon 97.00 (96.

Ion 99.00 (98.

Ion 61.00 (60.

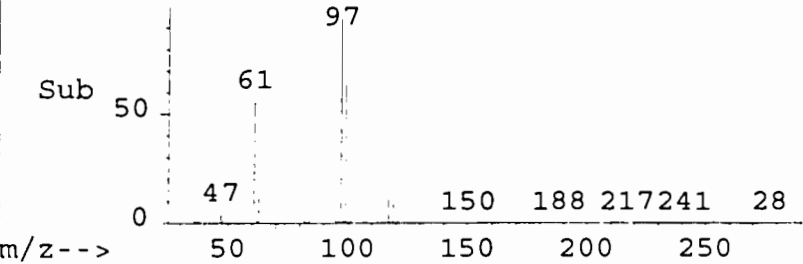
30000 11.38

20000

10000

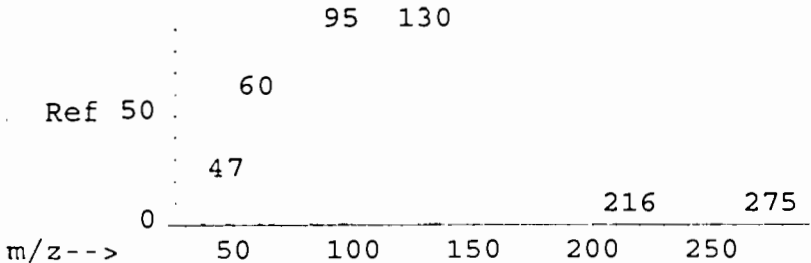
0

AbundanceScan 1154 (11.378 min): P05509.D (



Time-->11.05 11.60

AbundanceScan 1484 (13.269 min): P05322.D (



#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

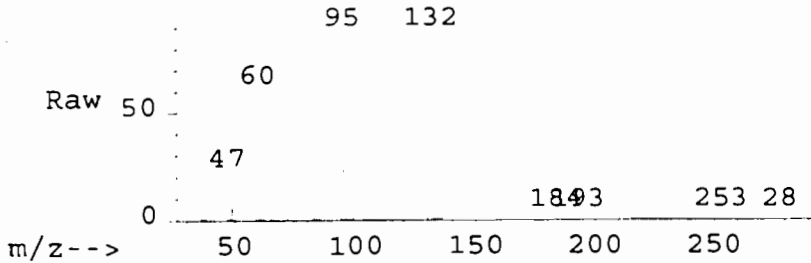
130 100

132 102.9 82.0 122.0

95 108.6 80.0 120.0

0 0.0 0.0 0.0

AbundanceScan 1443 (13.032 min): P05509.D (



AbundanceIon 130.00 (129

Ion 132.00 (131

Ion 95.00 (94.

80000 13.03

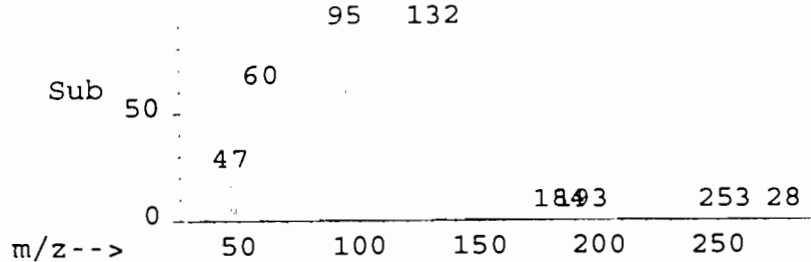
60000

40000

20000

0

AbundanceScan 1443 (13.032 min): P05509.D (



Time-->12.74 13.25

Sample Name: 9702290

Misc. Info: B60226 H5970-3 1/27/97 5.0ML

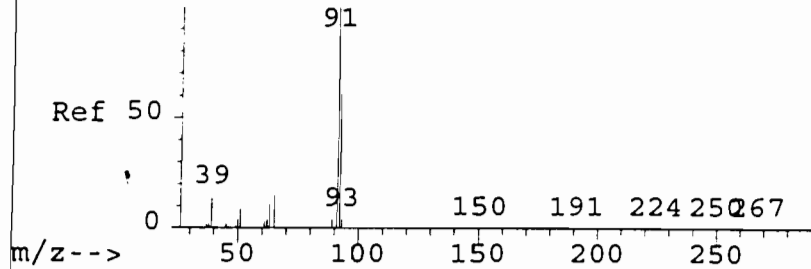
P05509.D CLPW.M Tue Feb 11 08:57:06 1997

MASSPEC1

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V 0027

AbundanceScan 1855 (15.393 min): P05322.D (



#36

Toluene

Concen: 2.71 UG/L

RT: 15.16 min Scan# 1814

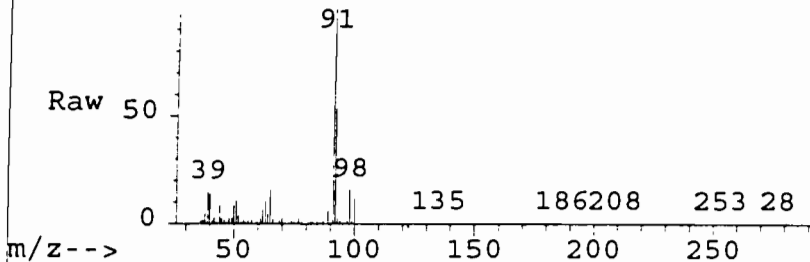
Delta R.T. 0.06 min

Lab File: P05509.D

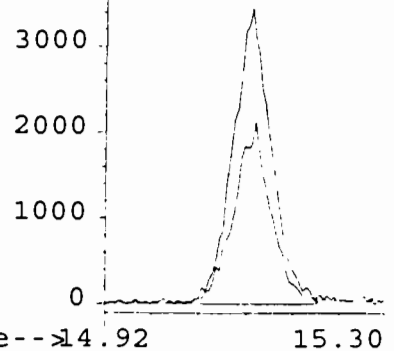
Acq: 28 Jan 97 6:19 pm

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

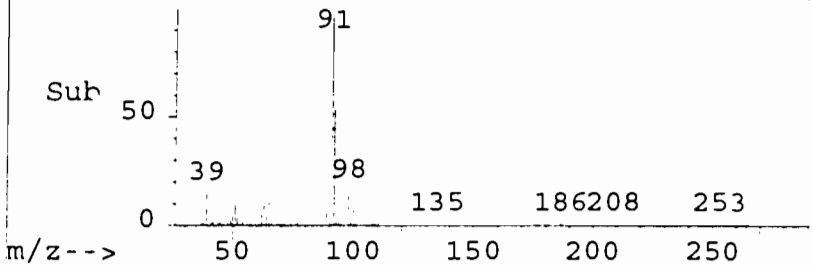
AbundanceScan 1814 (15.156 min): P05509.D (



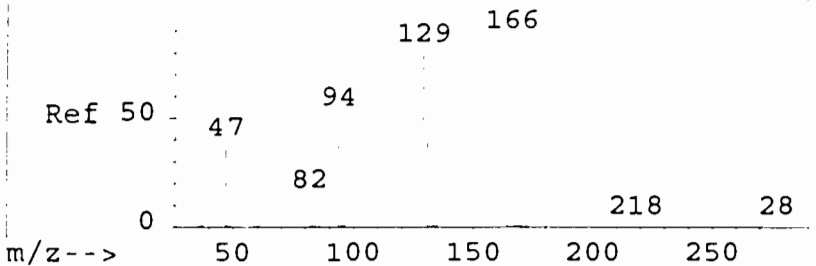
AbundanceIon 91.00 (90.
4000 Ion 92.00 (91.
15.16



AbundanceScan 1814 (15.156 min): P05509.D (



AbundanceScan 2055 (16.538 min): P05322.D (



#37

Tetrachloroethene

Concen: 159.38 UG/L

RT: 16.31 min Scan# 2016

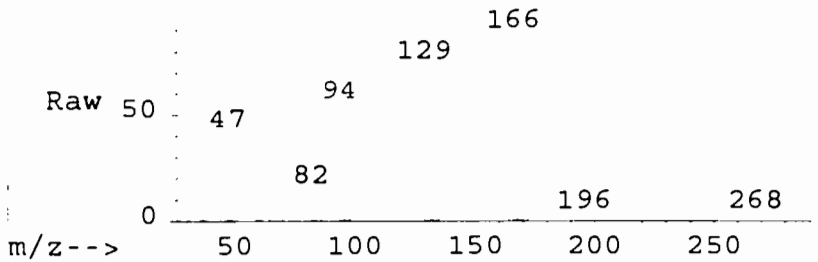
Delta R.T. 0.05 min

Lab File: P05509.D

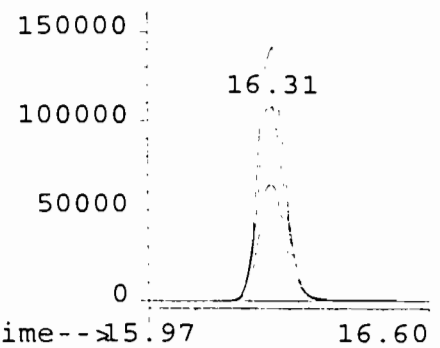
Acq: 28 Jan 97 6:19 pm

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

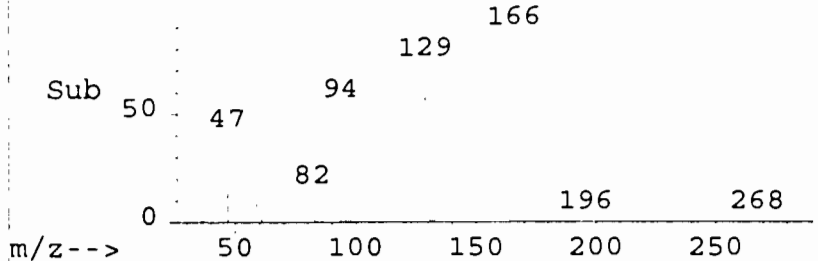
AbundanceScan 2016 (16.312 min): P05509.D (



AbundanceIon 164.00 (163
Ion 166.00 (165
Ion 168.00 (167



AbundanceScan 2016 (16.312 min): P05509.D (



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

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V 00:28

Library Search Compound Report

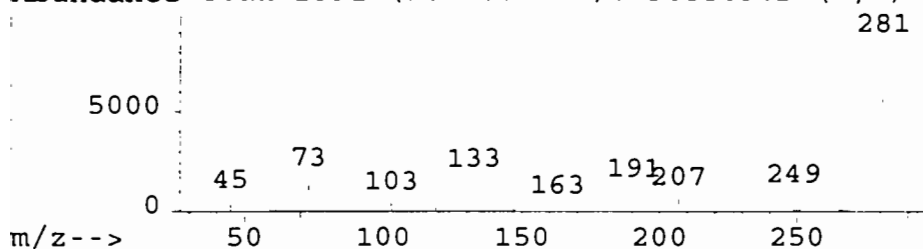
Data File : C:\HPCHEM\1\DATA\P05509.D
Acq On : 28 Jan 97 18:19
Sample : 9702290
Misc : B60226 H5970-3 1/27/97 5.0ML

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

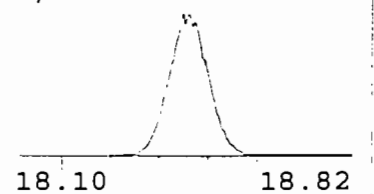
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

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

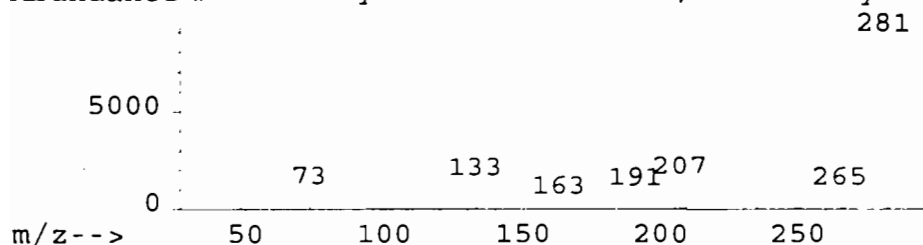
Abundance Scan 2391 (18.458 min): P05509.D (-,*)



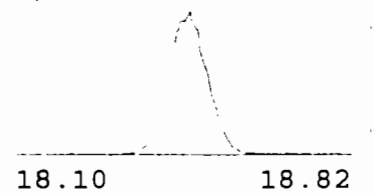
m/z 280.95 100.00%



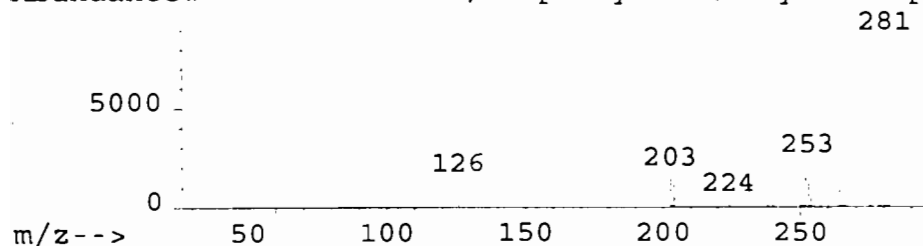
Abundance #41966: Cyclotetrasiloxane, octamethyl-



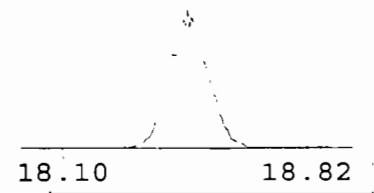
m/z 281.95 26.80%



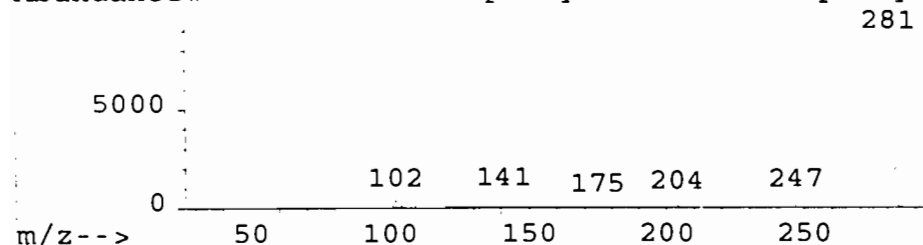
Abundance #39643: Benzene, 1-phenyl-4-(2-cyano-2-phenyl)-



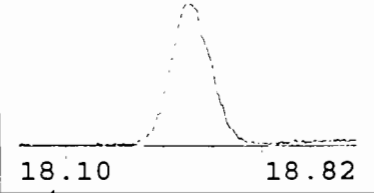
m/z 282.95 16.91%



Abundance #39756: 2-Oxo-4-phenyl-6-(4-chlorophenyl)-



m/z 73.00 16.19%



m/z-->

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

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		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

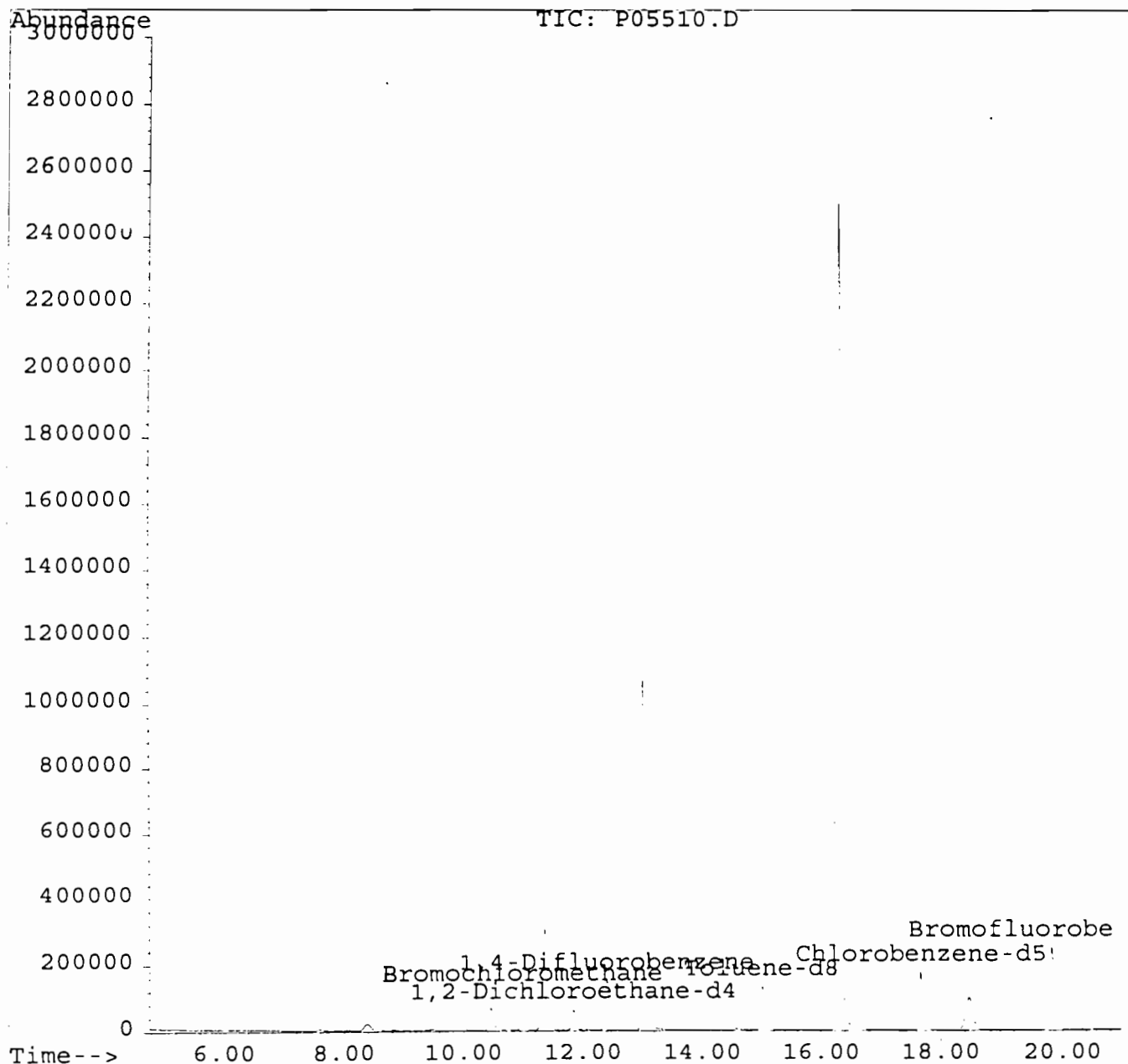
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	14	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	30	JN

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

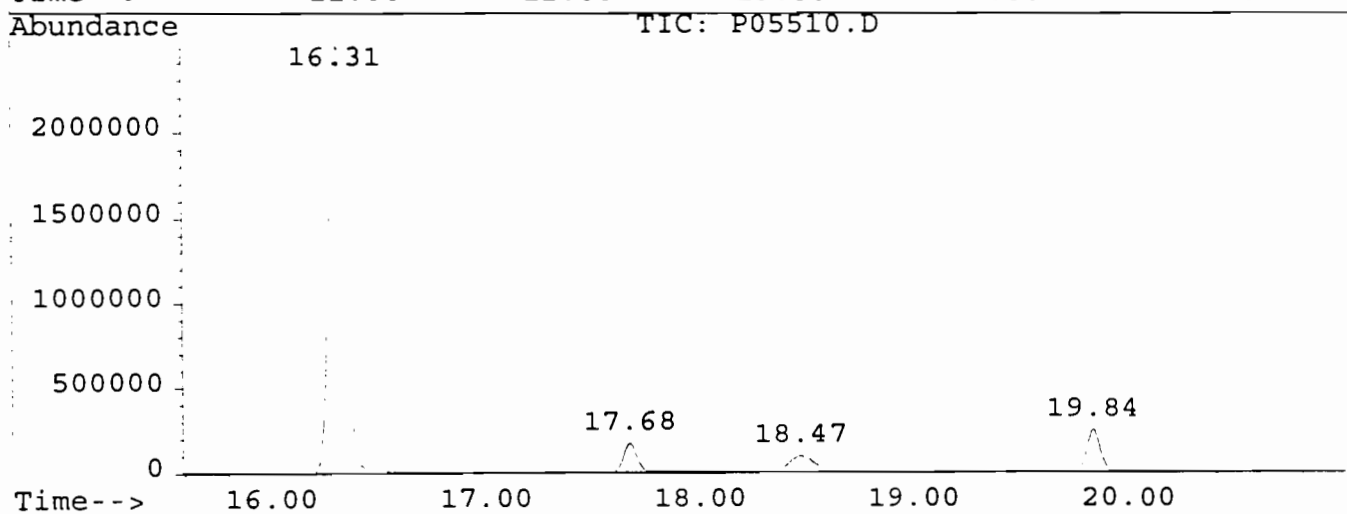
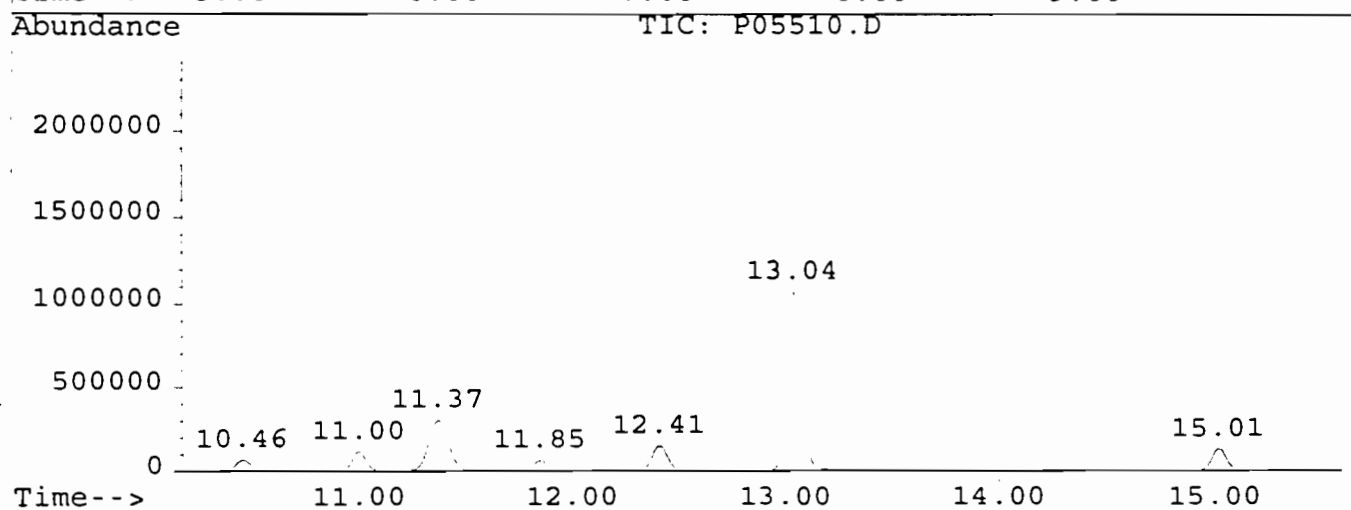
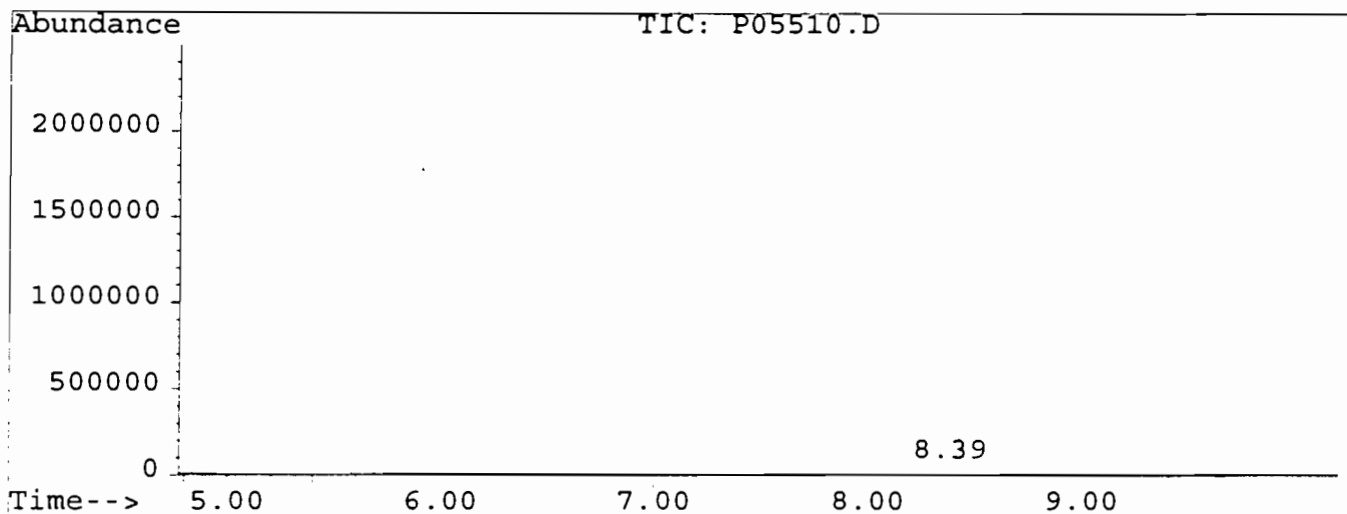
Vial: 15
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

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



Quantitation 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
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

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

P05510.D CLPW.M

Tue Feb 11 08:57:19 1997

MASSPEC1

Page 1

V-0034

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

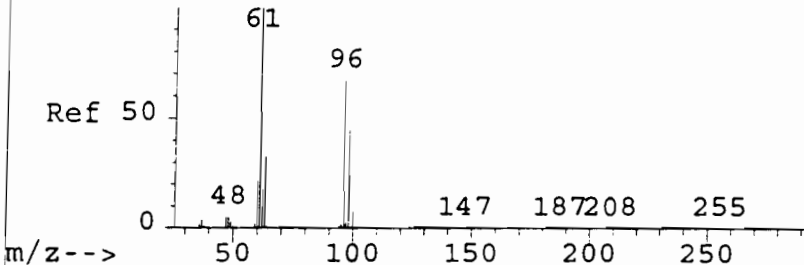
Method: CLPW

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

AbundanceScan 1032 (10.682 min): P05322.D (

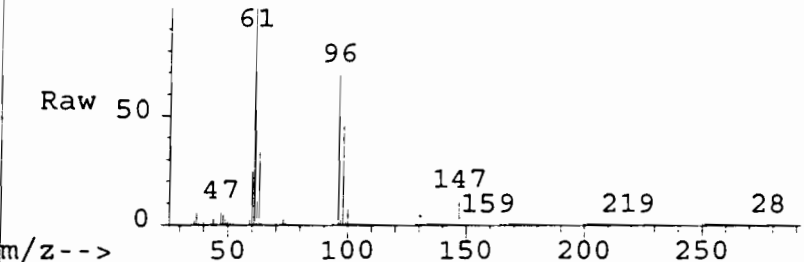


#14

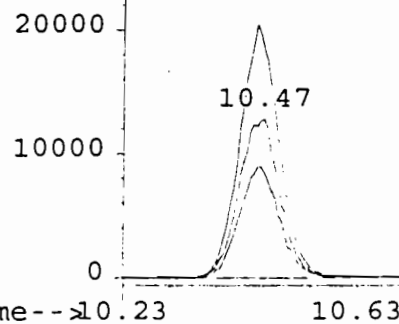
cis-,1,2-Dichloroethene
Concen: 22.88 UG/L
RT: 10.47 min Scan# 996
Delta R.T. 0.06 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

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

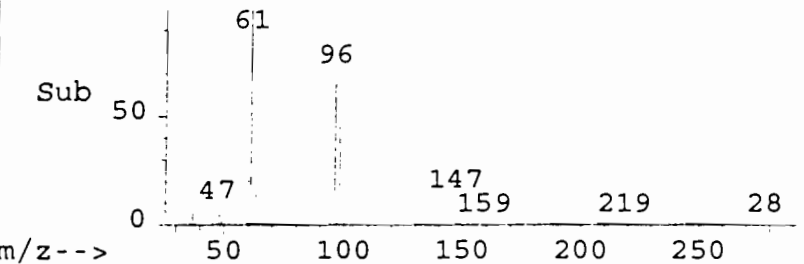
AbundanceScan 996 (10.470 min): P05510.D (*)



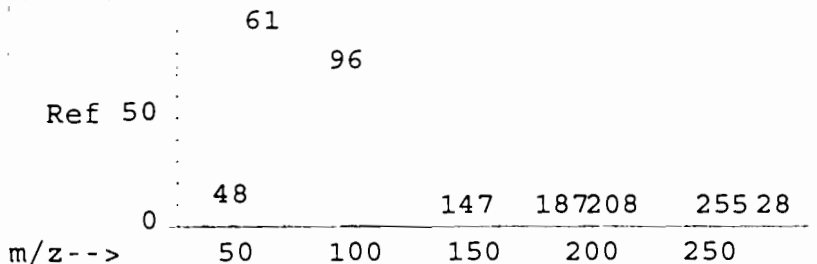
AbundanceIon 95.85 (95.
Ion 97.95 (97.
Ion 60.90 (60.



AbundanceScan 996 (10.470 min): P05510.D (-



AbundanceScan 1032 (10.682 min): P05322.D (

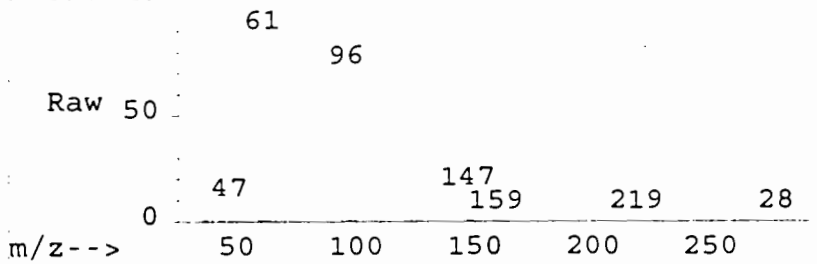


#15

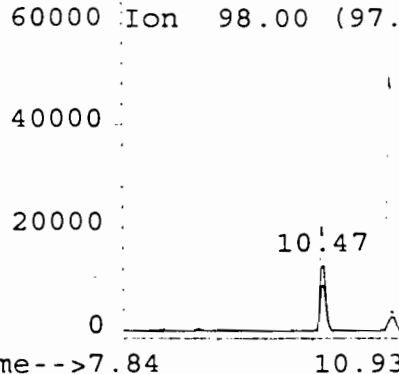
1,2-Dichloroethene (total)
Concen: 23.67 UG/L m
RT: 10.47 min Scan# 996
Delta R.T. 1.67 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

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

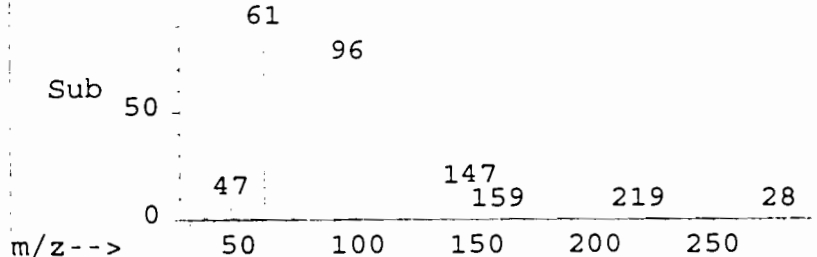
AbundanceScan 996 (10.470 min): P05510.D (*)



AbundanceIon 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



AbundanceScan 996 (10.470 min): P05510.D (-



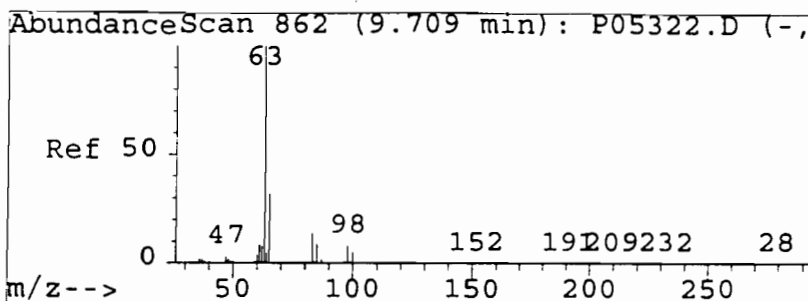
Sample Name: 9702291

Misc. Info: B60227 H5970-3 1/27/97 5.0ML
P05510.D CLPW.M Tue Feb 11 08:57:27 1997

MASSPEC1

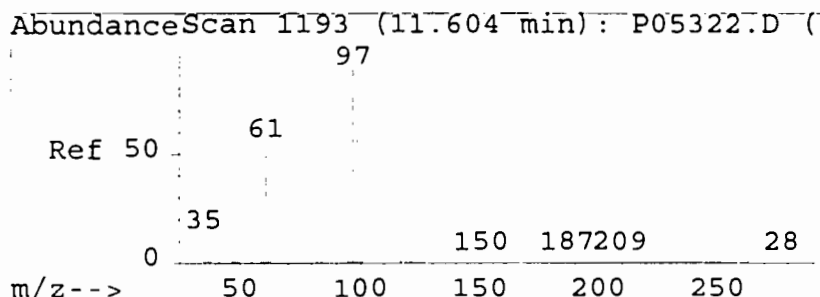
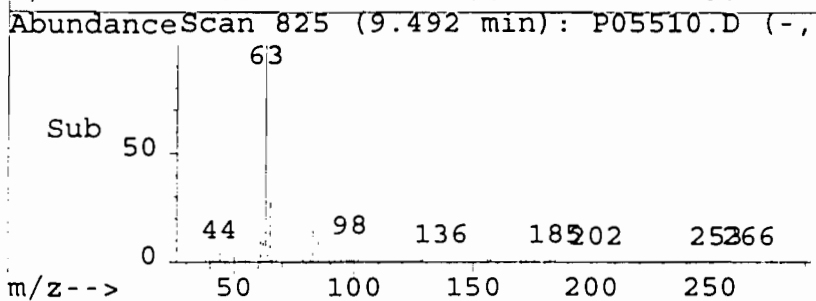
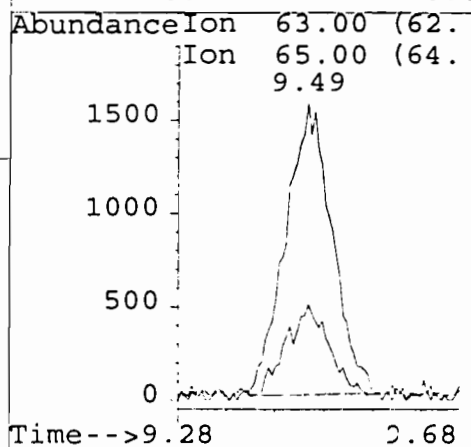
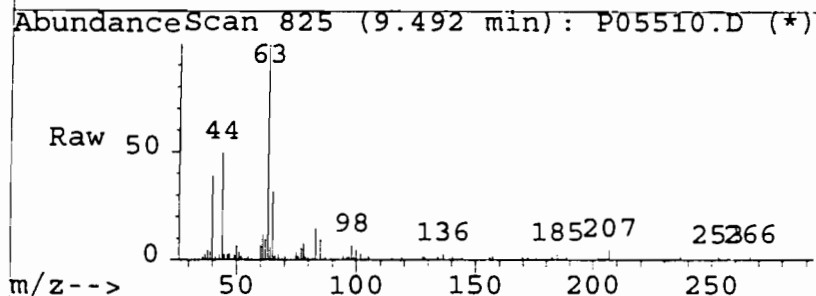
Page 3

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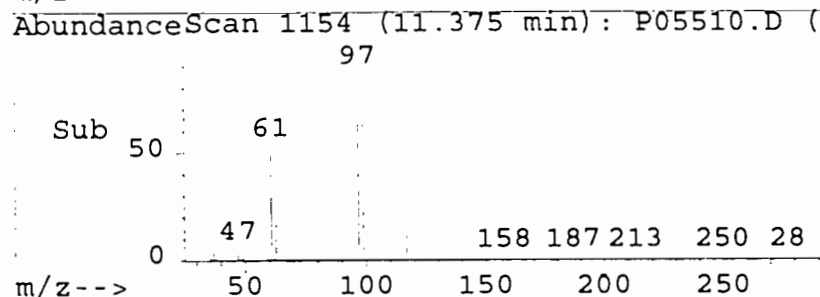
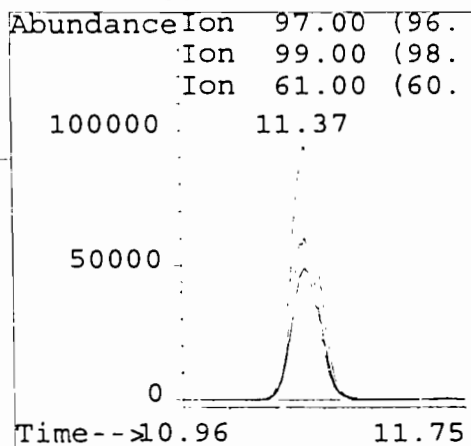
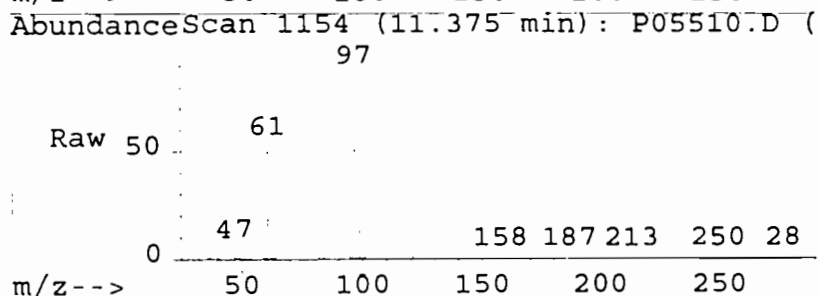
#16
1,1-Dichloroethane
Concen: 1.62 UG/L
RT: 9.49 min Scan# 825
Delta R.T. 0.03 min
Lab File: P05510.D
Acq: 28 Jan 97 6:49 pm

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
P05510.D CLPW.M Tue Feb 11 08:57:30 1997

MASSPEC1

Page 4

AbundanceScan 1484 (13.269 min): P05322.D (

#24

Trichloroethene

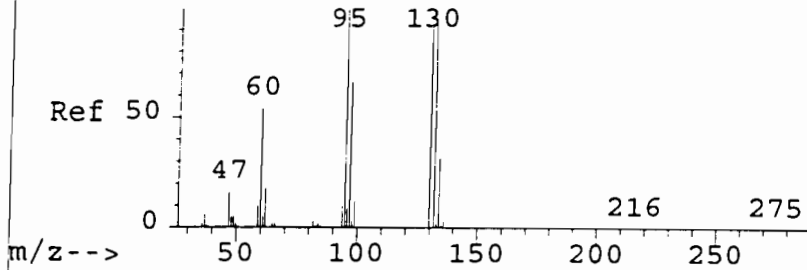
Concen: 249.44 UG/L

RT: 13.03 min Scan# 1444

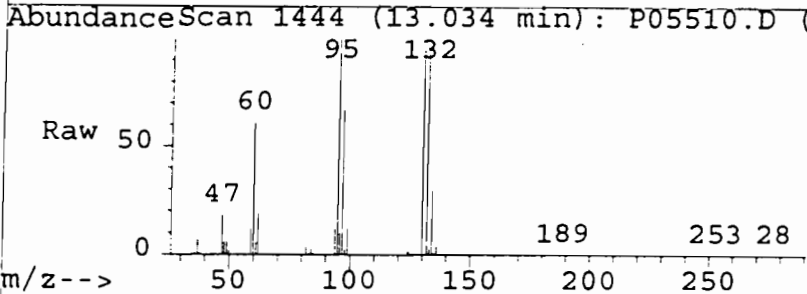
Delta R.T. 0.05 min

Lab File: P05510.D

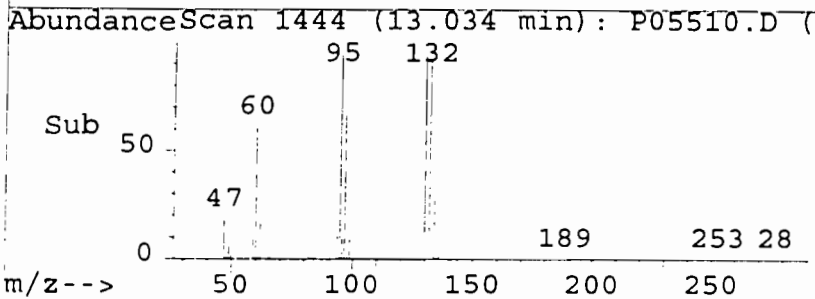
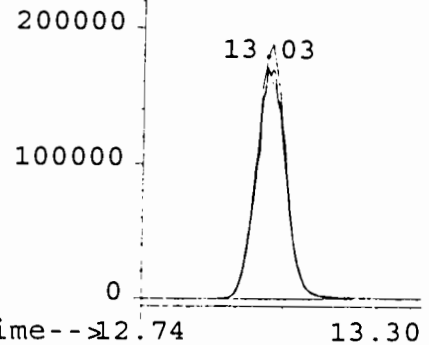
Acq: 28 Jan 97 6:49 pm



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



AbundanceIon 130.00 (129
Ion 132.00 (131
Ion 95.00 (94.



AbundanceScan 1855 (15.393 min): P05322.D (

#36

Toluene

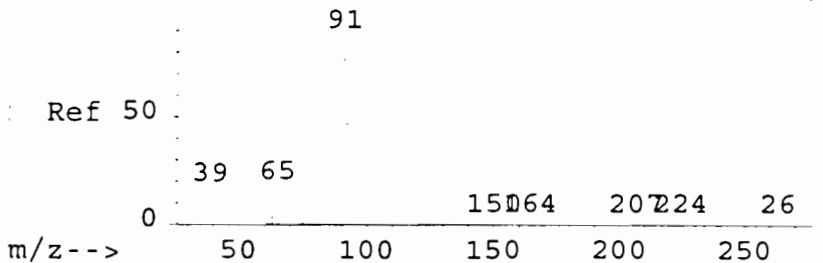
Concen: 1.98 UG/L

RT: 15.15 min Scan# 1814

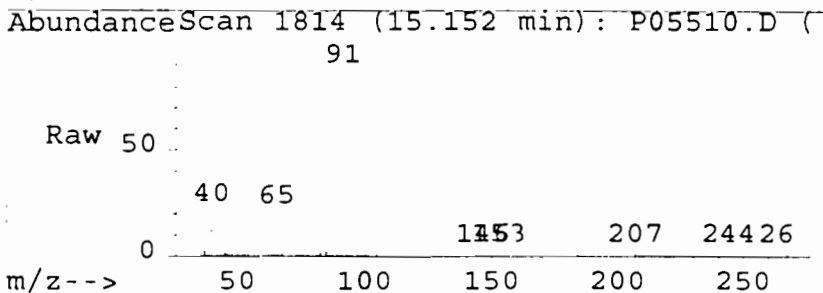
Delta R.T. 0.06 min

Lab File: P05510.D

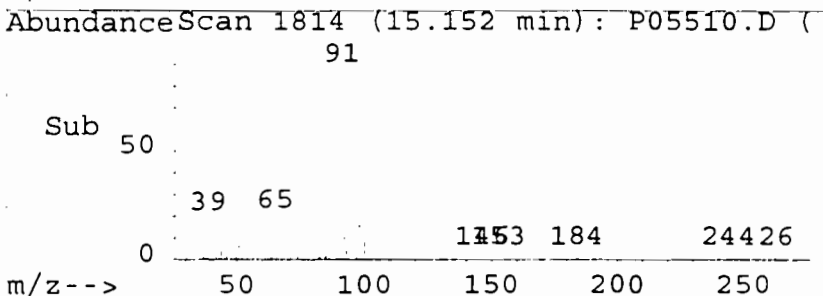
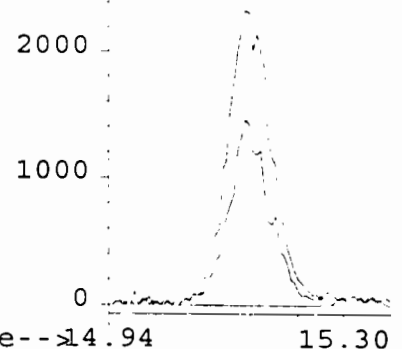
Acq: 28 Jan 97 6:49 pm



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



AbundanceIon 91.00 (90.
Ion 92.00 (91.
15.15



Sample Name: 9702291

Misc. Info: B60227 H5970-3 1/27/97 5.0ML

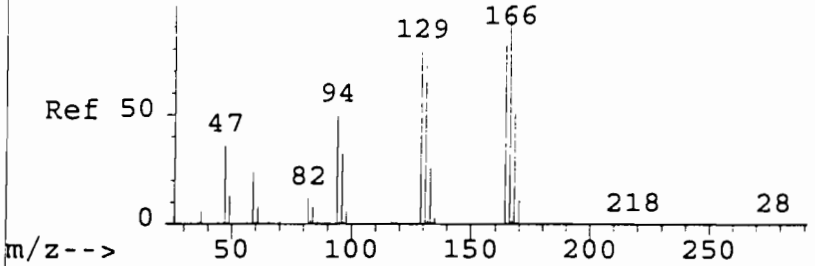
P05510.D CLPW.M Tue Feb 11 08:57:33 1997

MASSPEC1

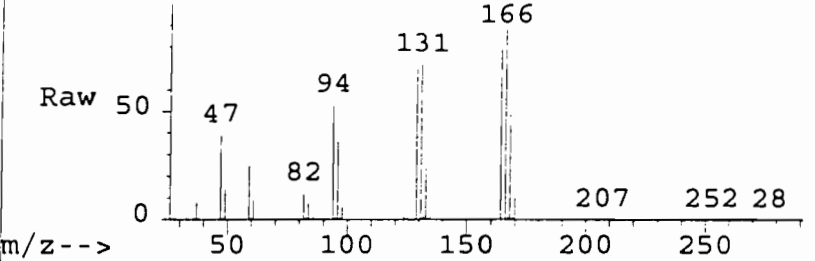
Page 5

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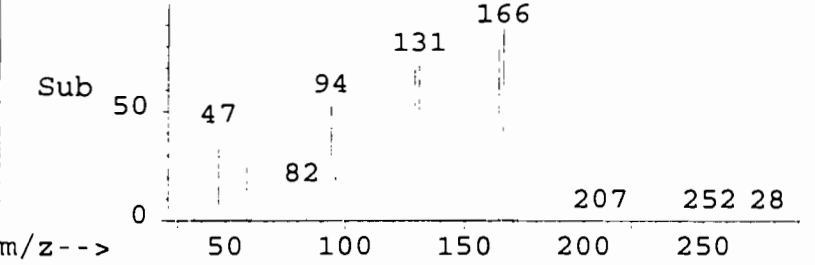
AbundanceScan 2055 (16.538 min): P05322.D (



AbundanceScan 2016 (16.308 min): P05510.D (



AbundanceScan 2016 (16.308 min): P05510.D (



#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

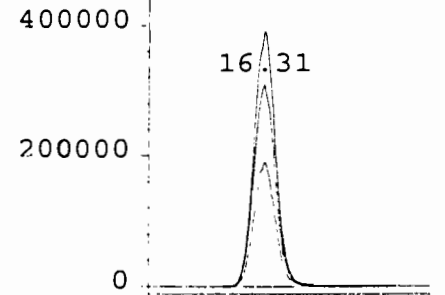
168 61.5 42.4 82.4

0 0.0 0.0 0.0

AbundanceIon 164.00 (163

Ion 166.00 (165

Ion 168.00 (167



Time--> 15.93 16.69

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

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V 0039

Library Search Compound Report

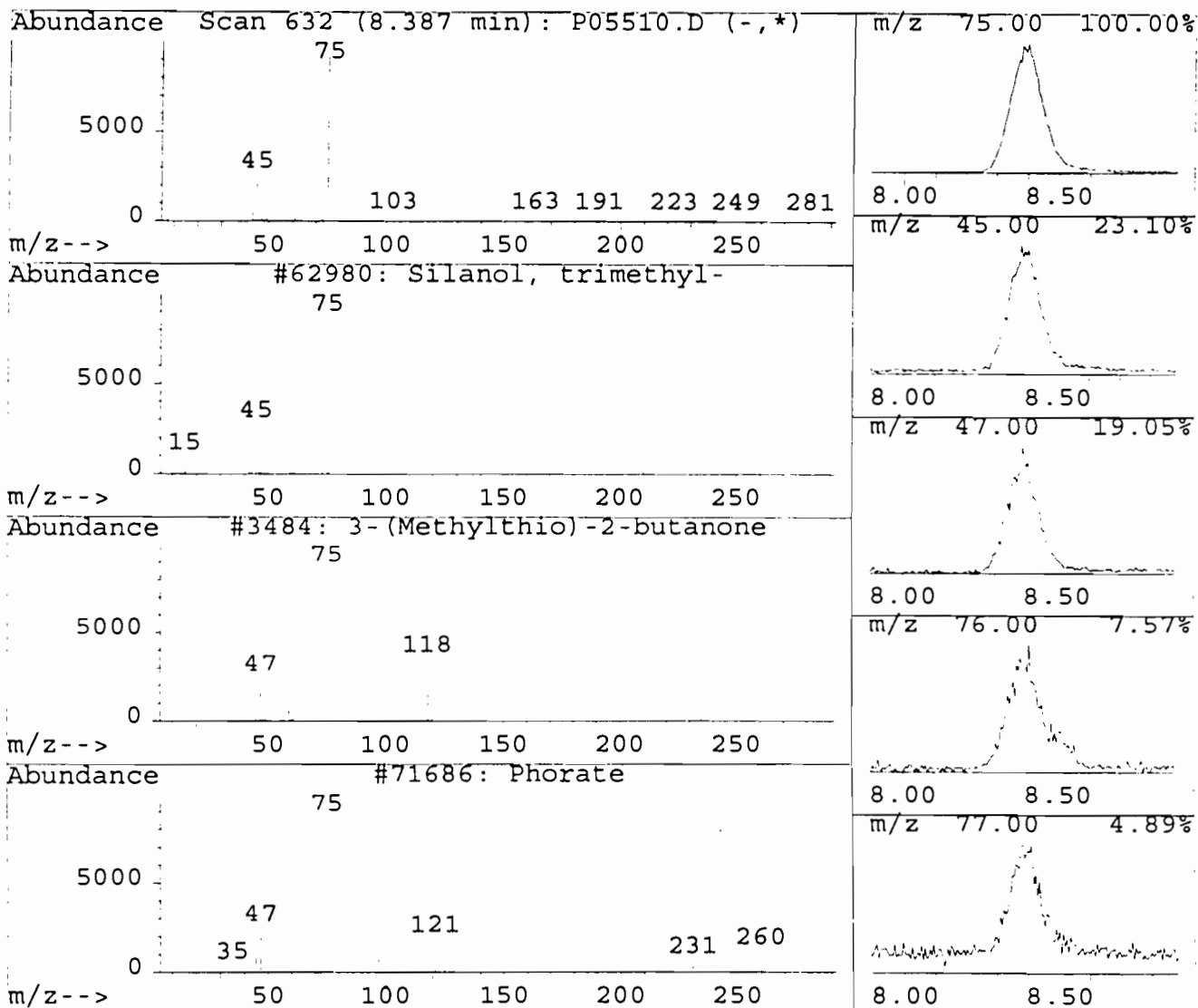
Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 18:49
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML

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

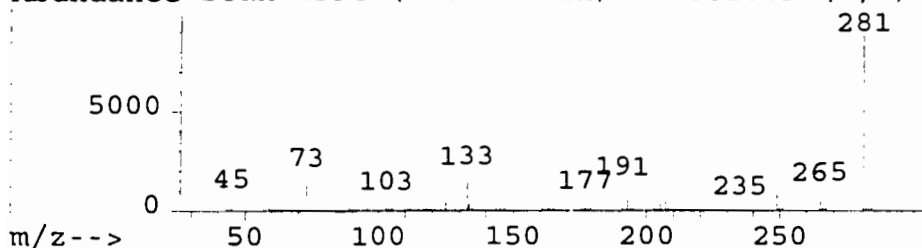
Data File : C:\HPCHEM\1\DATA\P05510.D
Acq On : 28 Jan 97 18:49
Sample : 9702291
Misc : B60227 H5970-3 1/27/97 5.0ML

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

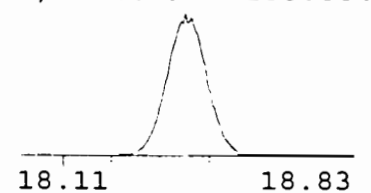
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

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

Abundance Scan 2394 (18.472 min): P05510.D (-,*)

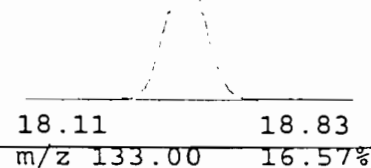
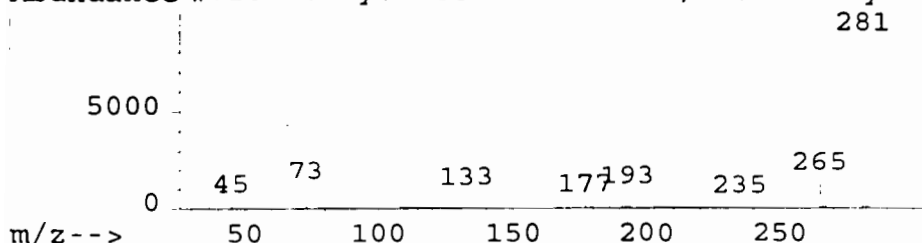


m/z 280.95 100.00%



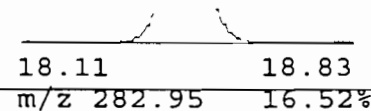
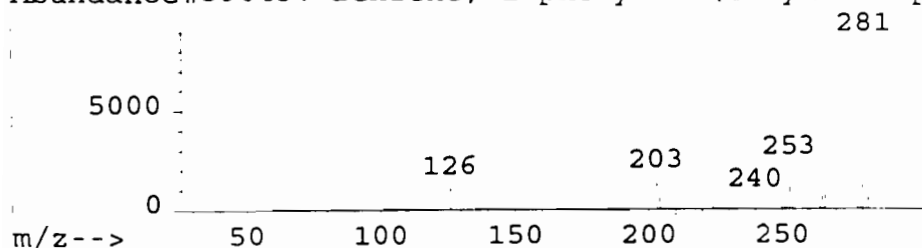
m/z 281.95 26.23%

Abundance #72646: Cyclotetrasiloxane, octamethyl-



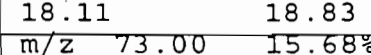
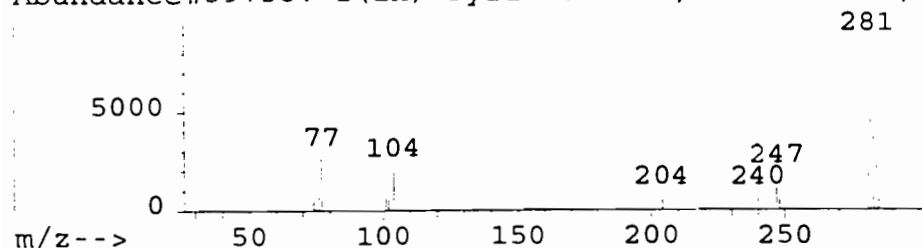
m/z 133.00 16.57%

Abundance#39643: Benzene, 1-phenyl-4-(2-cyano-2-p



m/z 282.95 16.52%

Abundance#39758: 2(1H)-Pyrimidinone, 5-chloro-4,6



m/z 73.00 15.68%

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)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

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

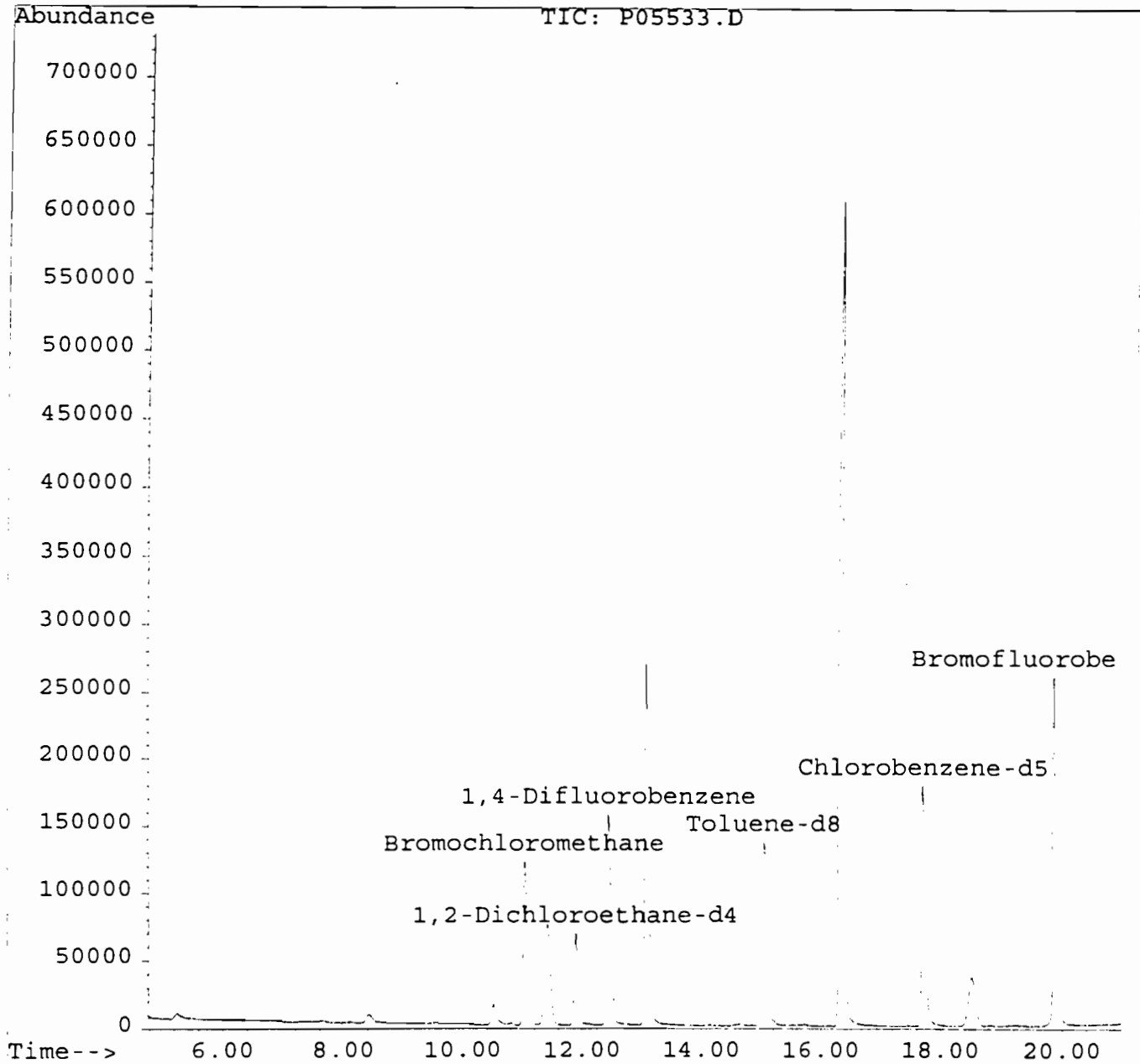
Quant Time: Feb 11 8:48 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M

Title : VOA CLP WATER METHOD

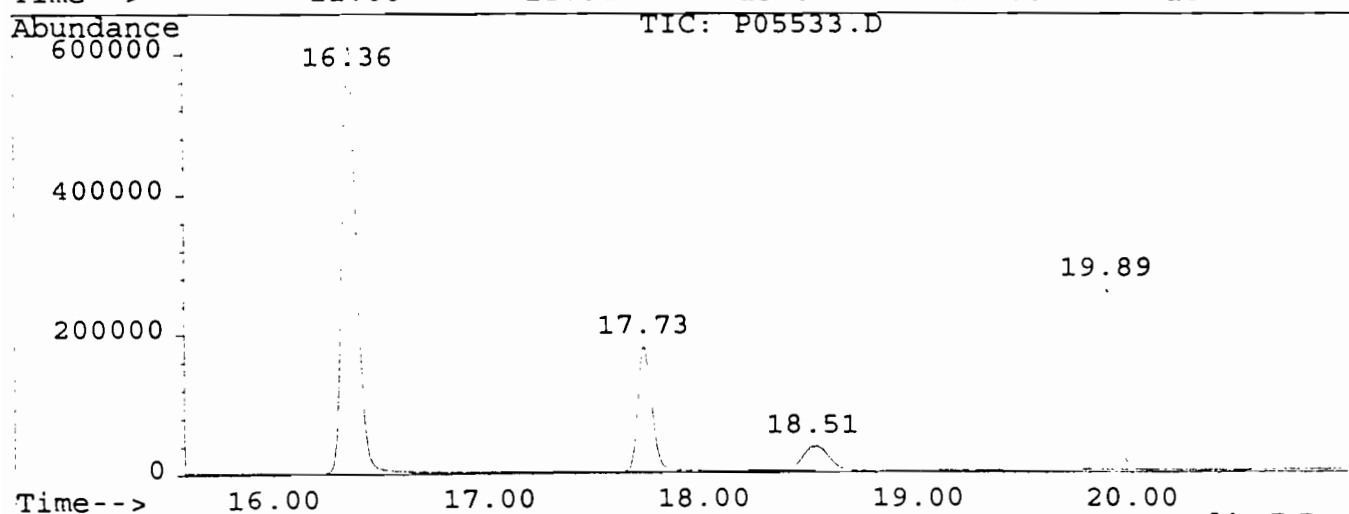
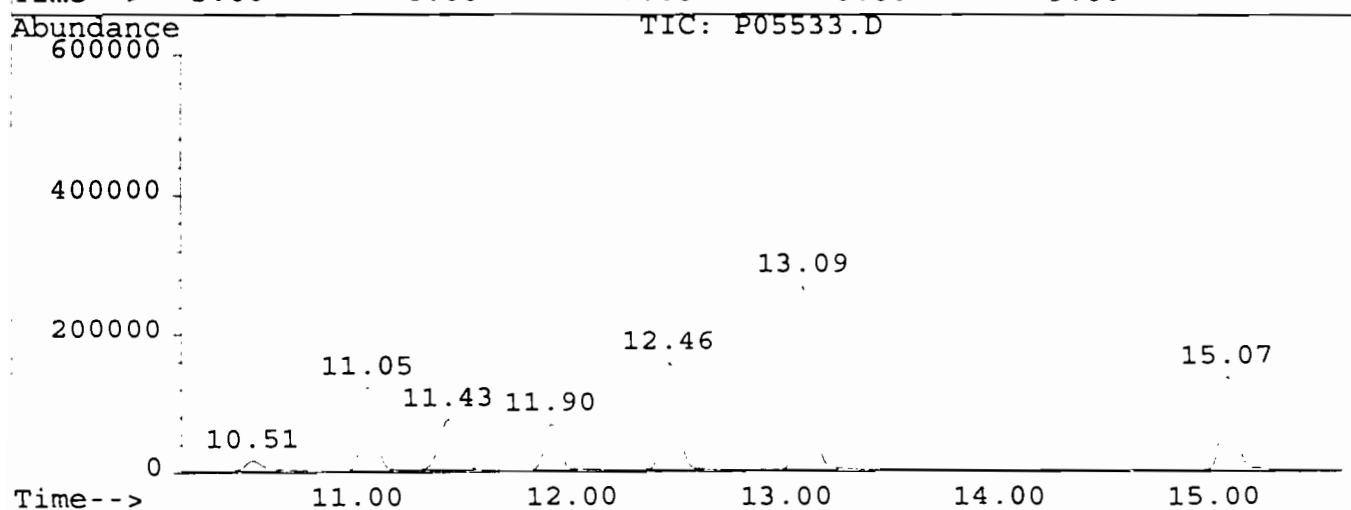
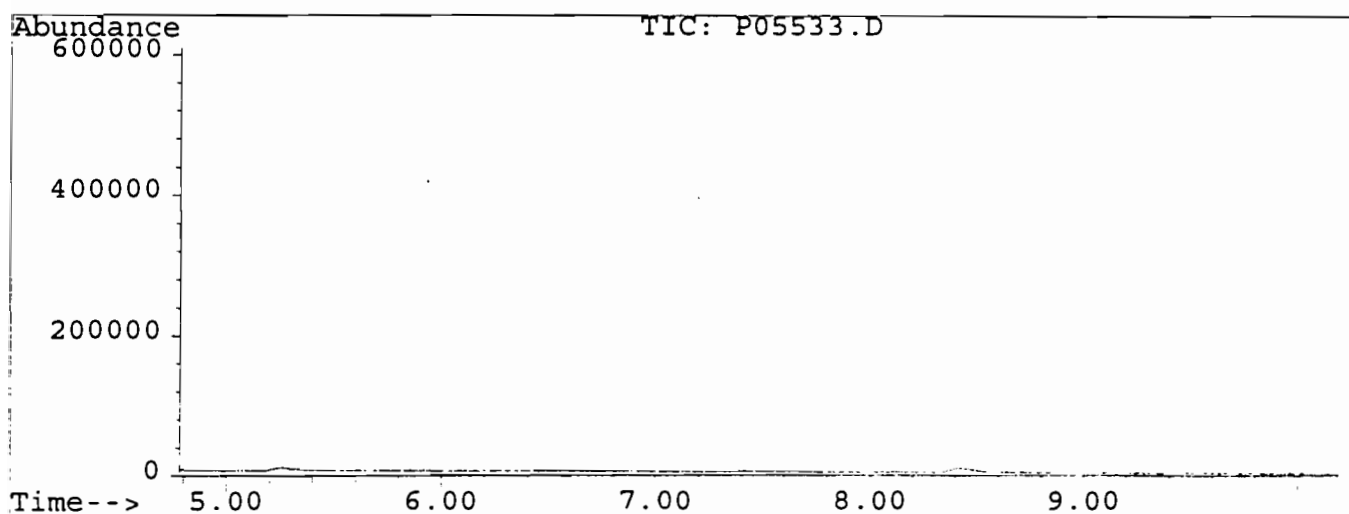
Last Update : Thu Feb 06 11:33:19 1997

Response via : Single Level Calibration



V 004.1

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

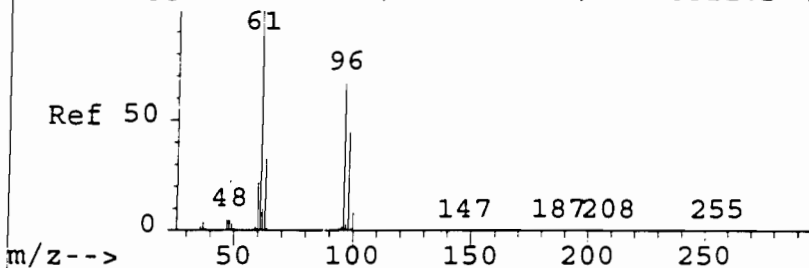
(#) = qualifier out of range (m) = manual integration

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

AbundanceScan 1032 (10.682 min): P05322.D (



#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

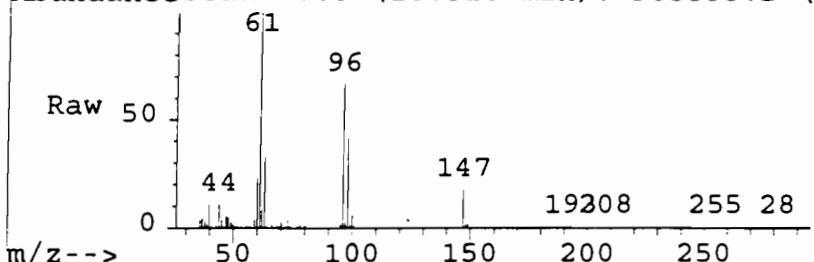
Acq: 29 Jan 97 8:43 pm

Tgt Ion:95.85 Resp: 13084

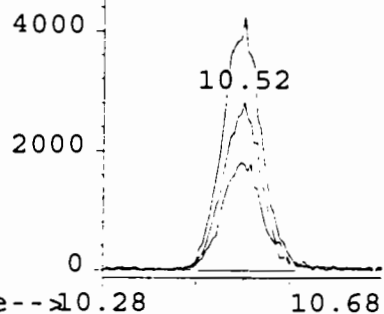
Ion Ratio Lower Upper

96	100		
98	66.8	53.1	79.6
61	145.3	105.0	157.5
0	0.0	0.0	0.0

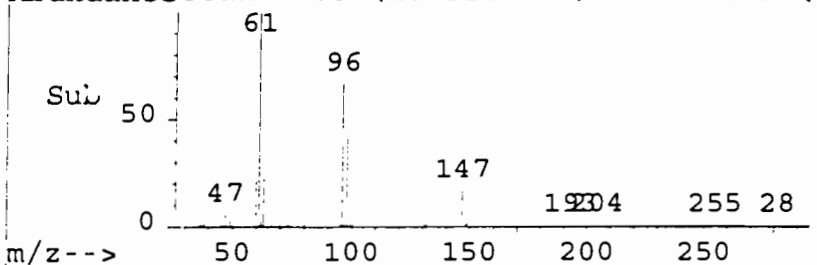
AbundanceScan 1003 (10.518 min): P05533.D (



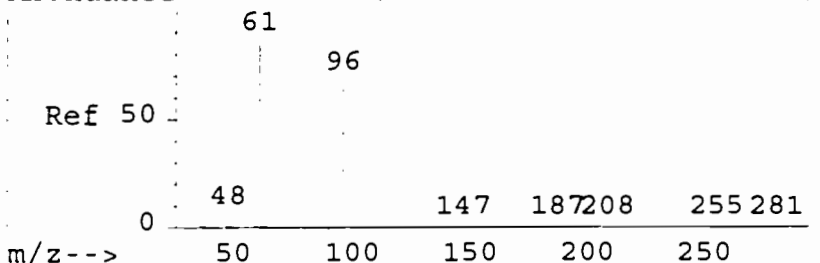
AbundanceIon 95.85 (95.
Ion 97.95 (97.
Ion 60.90 (60.



AbundanceScan 1003 (10.518 min): P05533.D (



AbundanceScan 1032 (10.682 min): P05322.D (



#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

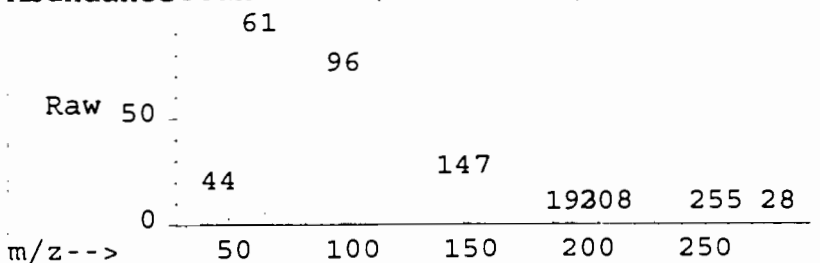
Acq: 29 Jan 97 8:43 pm

Tgt Ion:96 Resp: 16513

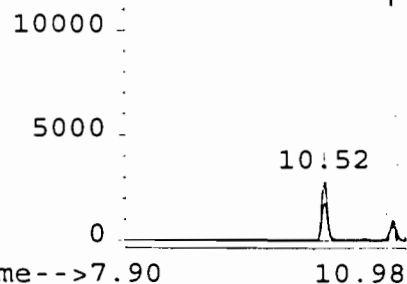
Ion Ratio Lower Upper

96	100		
61	150.1	111.6	151.6
98	63.2	44.6	84.6
0	0.0	0.0	0.0

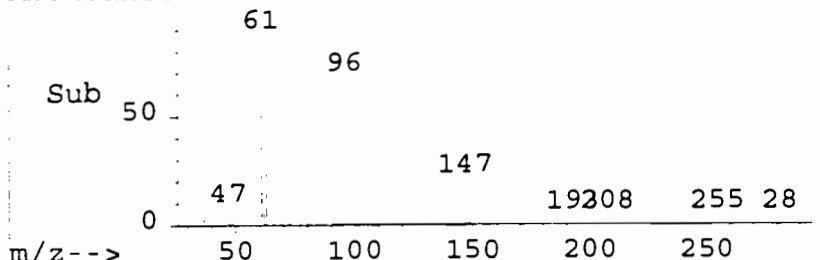
AbundanceScan 1003 (10.518 min): P05533.D (



AbundanceIon 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



AbundanceScan 1003 (10.518 min): P05533.D (



Sample Name: 9702291DL 1:5

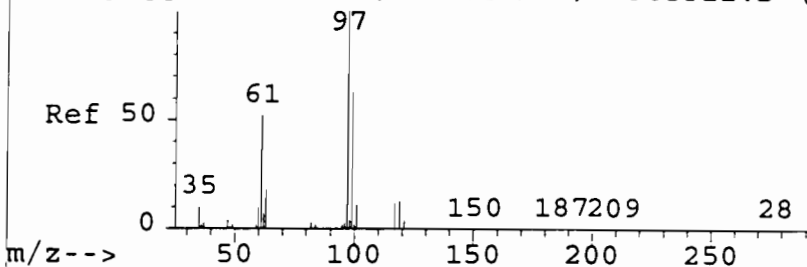
Misc. Info: B60227 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05533.D CLPW.M Tue Feb 11 08:59:41 1997

MASSPEC1

Page 3

AbundanceScan 1193 (11.604 min): P05322.D (



#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

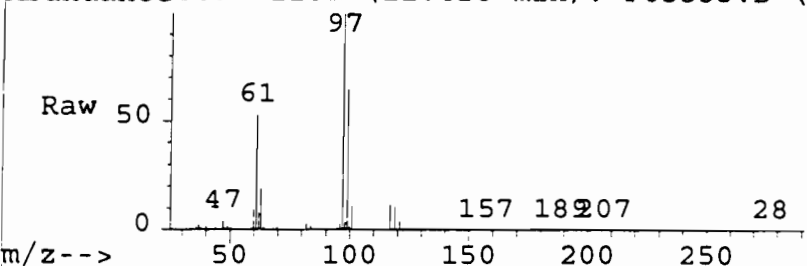
97 100

99 65.2 46.6 86.6

61 53.3 27.5 67.5

0 0.0 0.0 0.0

AbundanceScan 1162 (11.428 min): P05533.D (



AbundanceIon 97.00 (96.

30000 Ion 99.00 (98.

Ion 61.00 (60.

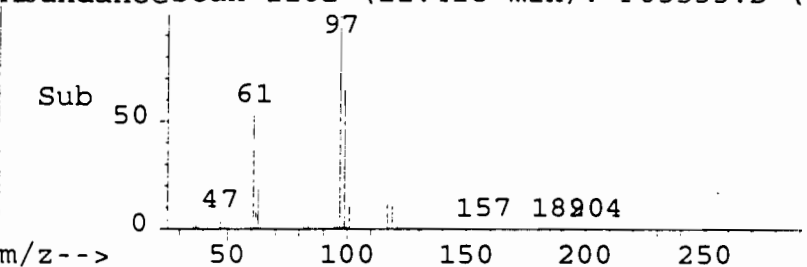
11.43

20000

10000

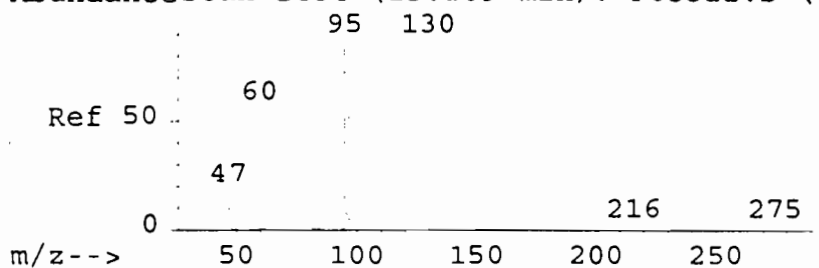
0

AbundanceScan 1162 (11.428 min): P05533.D (



Time-->11.06 11.66

AbundanceScan 1484 (13.269 min): P05322.D (



#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

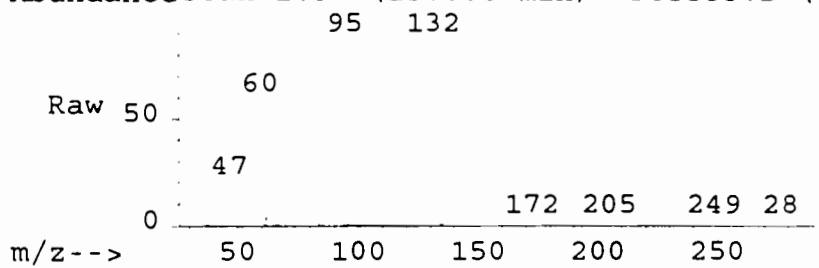
130 100

132 101.7 82.0 122.0

95 109.4 80.0 120.0

0 0.0 0.0 0.0

AbundanceScan 1452 (13.088 min): P05533.D (



AbundanceIon 130.00 (129

60000 Ion 132.00 (131

Ion 95.00 (94.

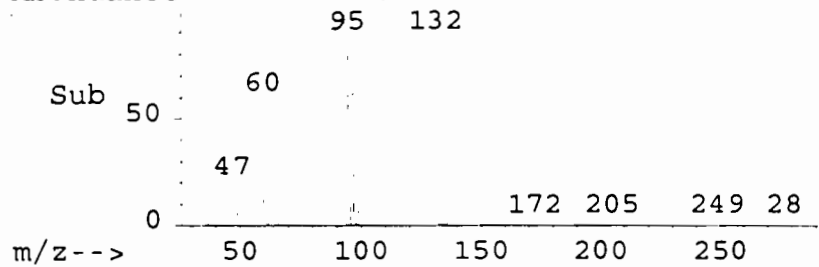
13.09

40000

20000

0

AbundanceScan 1452 (13.088 min): P05533.D (



Time-->12.81 13.29

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

Page 4

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 Multiplr: 1.00

Vial: 15

Operator: GLENN

Inst : 5970 - In

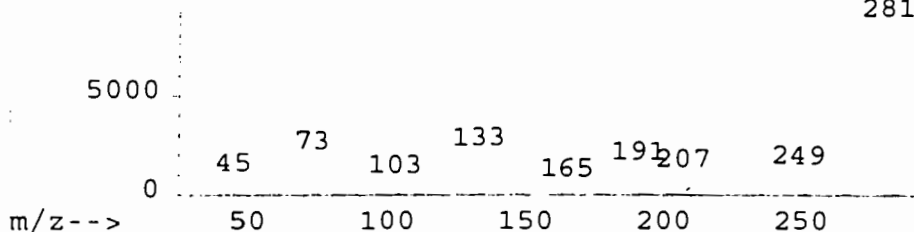
Method : C:\HPCHEM\1\METHODS\CLPW.M

Title : VOA CLP WATER METHOD

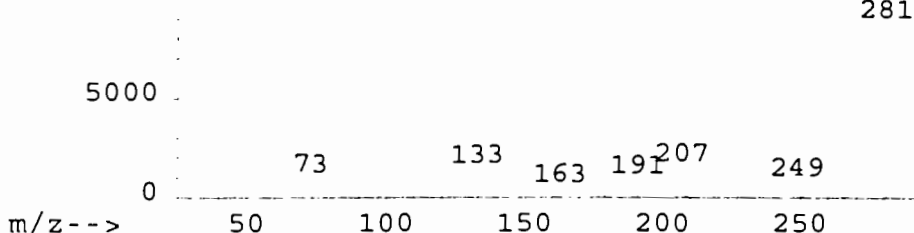
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.51	8.98 UG/L	141067	Chlorobenzene-d5	17.72

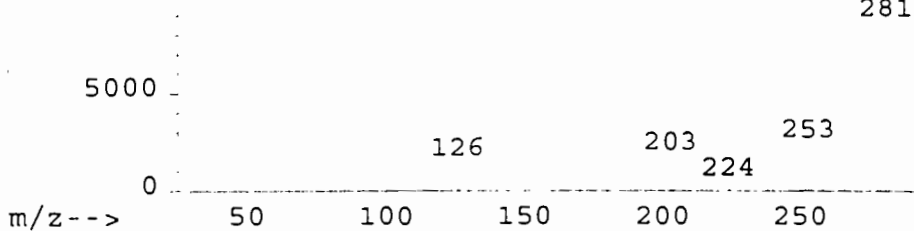
Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	28
4	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	12
5	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	7

Abundance Scan 2400 (18.514 min): P05533.D (-,*)
m/z 280.95 100.00%18.15 18.87
m/z 281.90 27.83%

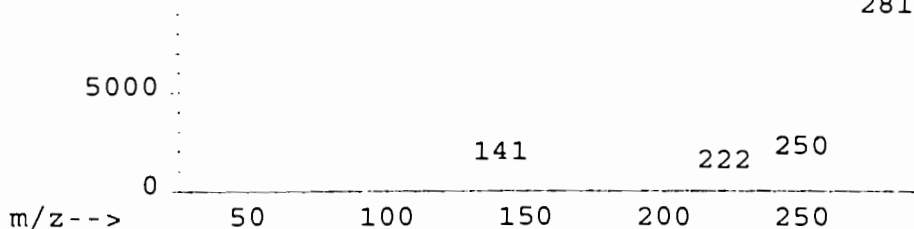
Abundance #41966: Cyclotetrasiloxane, octamethyl-

18.15 18.87
m/z 133.00 18.42%

Abundance #39643: Benzene, 1-phenyl-4-(2-cyano-2-p

18.15 18.87
m/z 282.95 17.91%

Abundance #39624: 3,6-Bis(N-dimethylamino)-9-ethyl

18.15 18.87
m/z 73.00 16.63%18.15 18.87
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:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

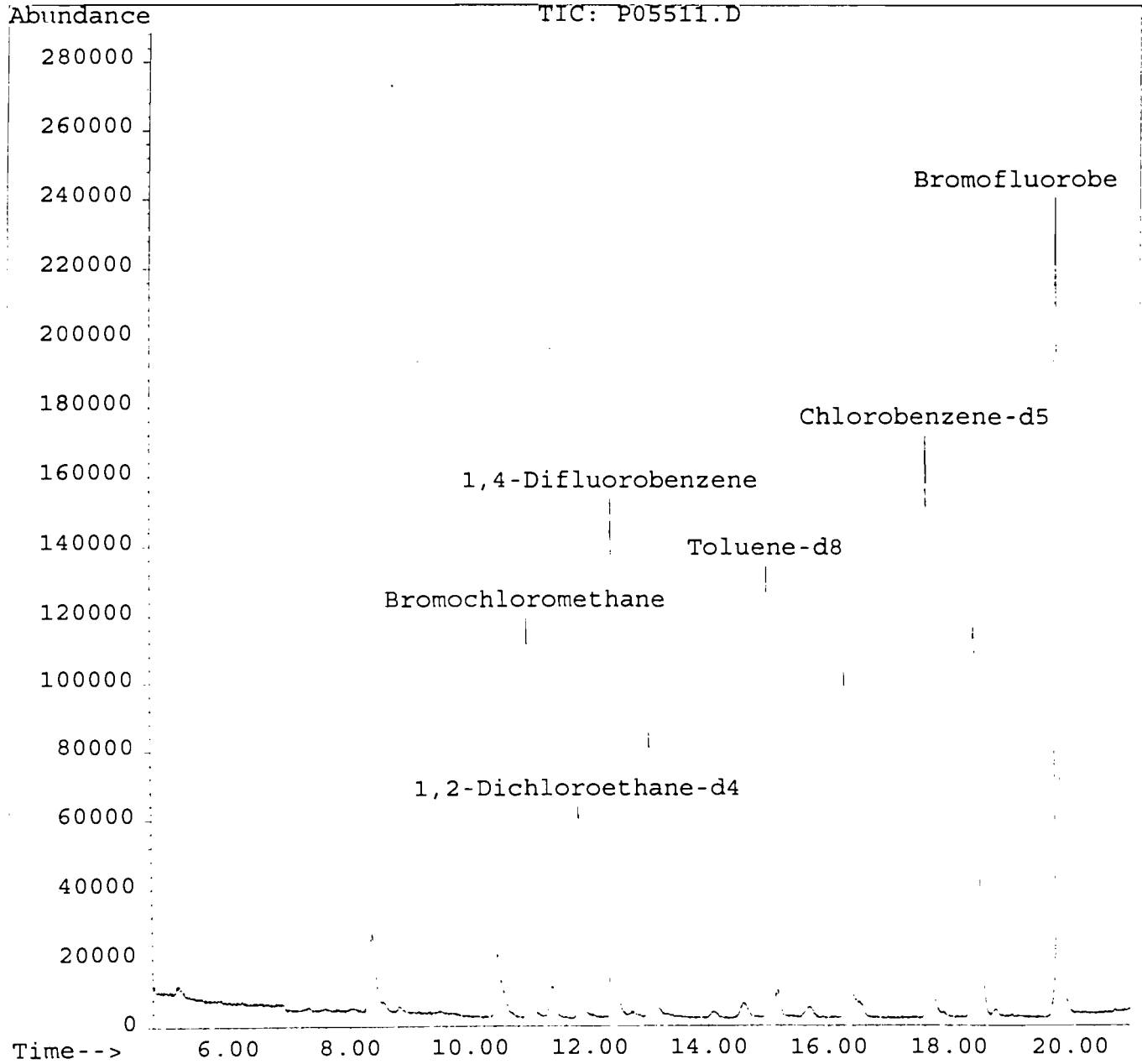
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	16	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	31	JN

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

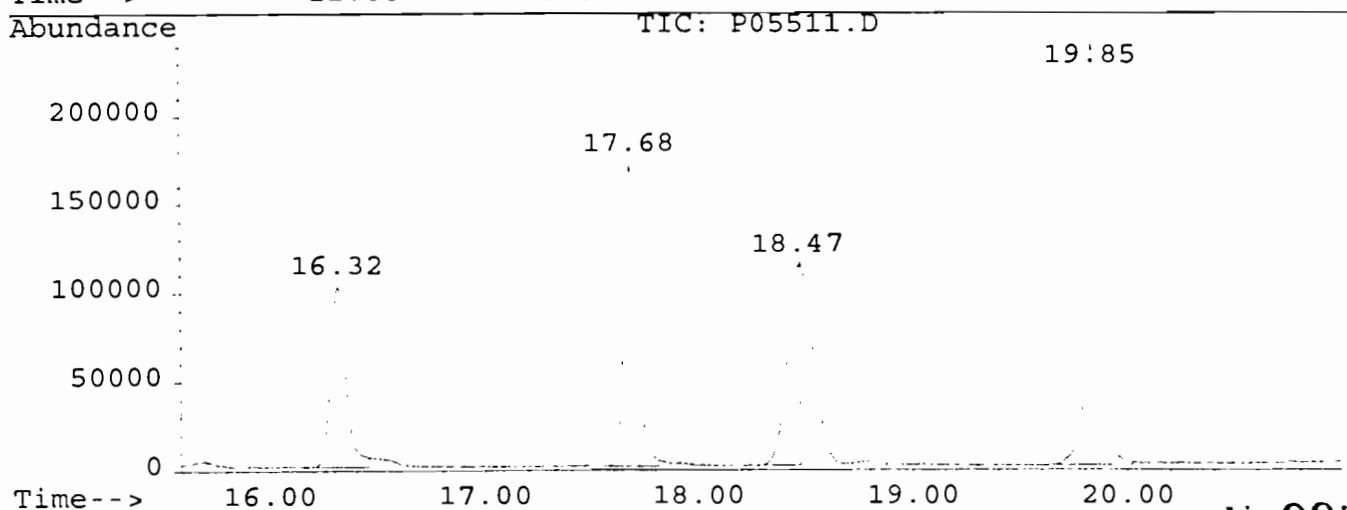
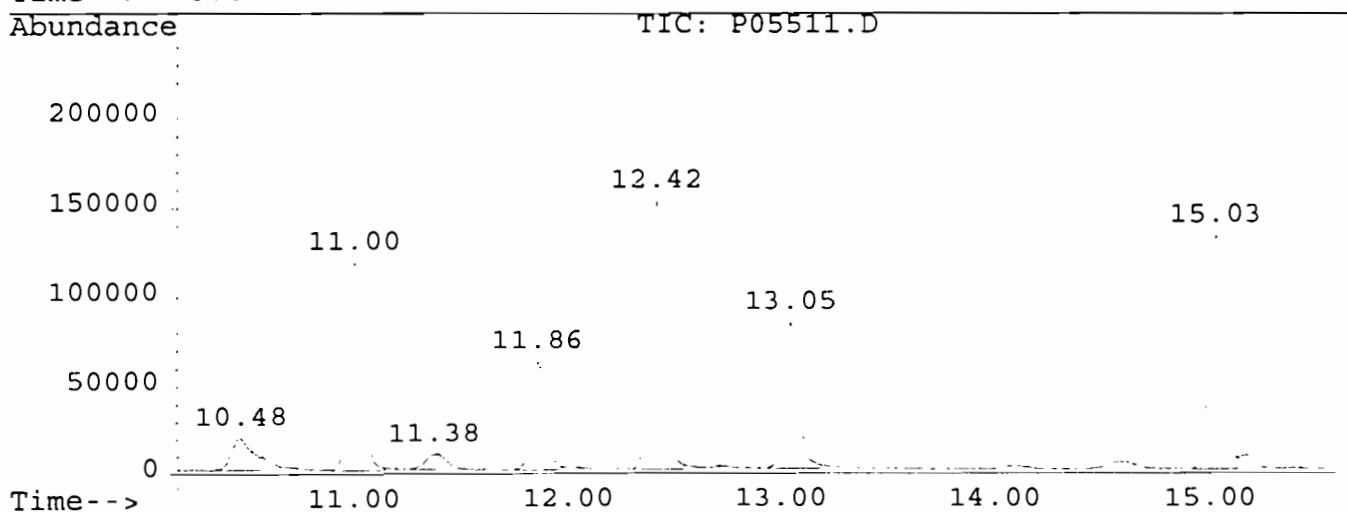
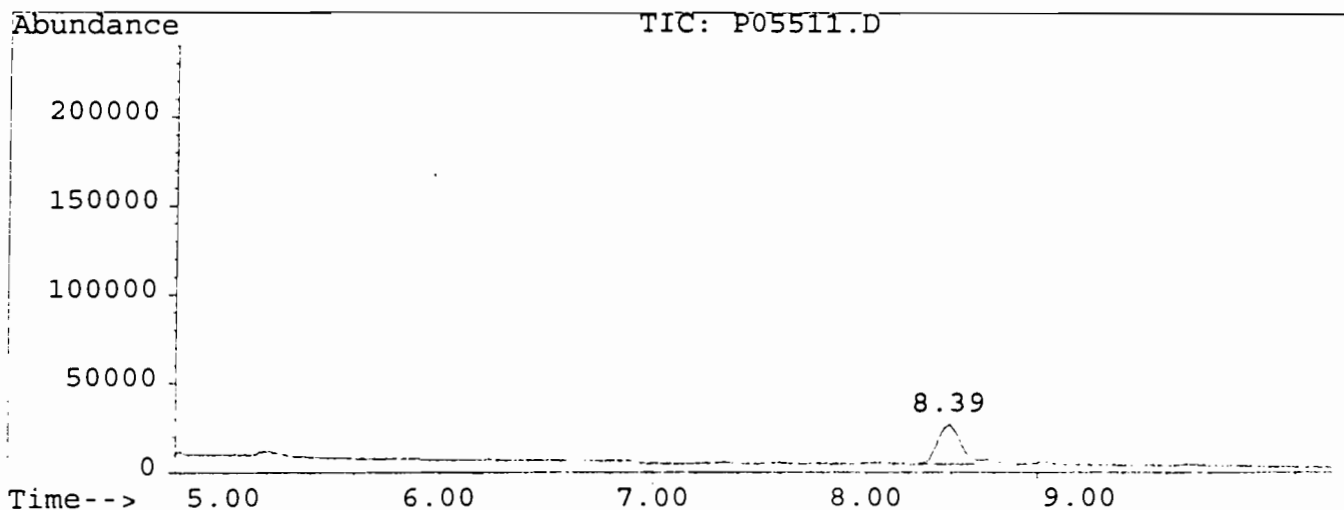
Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

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 0054

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
 Acq On : 28 Jan 97 19:19
 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 : 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) Brcmofluorobenzene	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

(#) = 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

Name: 9702292

Misc: B60228 H5970-3 1/27/97 5.0ML

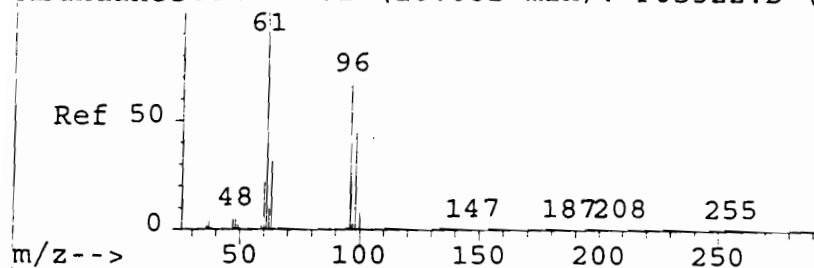
Method: CLPW

Title: VOA CLP WATER METHOD

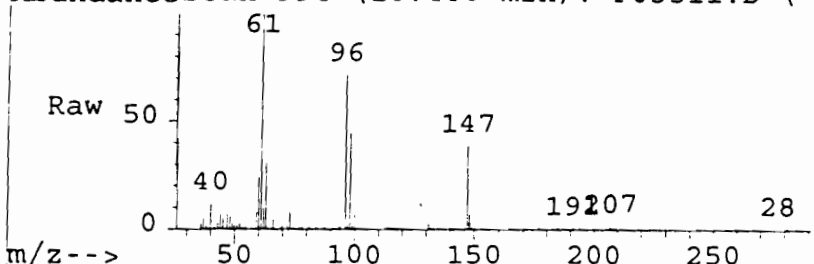
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Silanol, trimethyl-	8.39	15.9	UG/L	166858	ISTD01	11.01	524248	50.0
Cyclotetrasiloxane,	18.47	31.2	UG/L	458376	ISTD03	17.68	735425	50.0

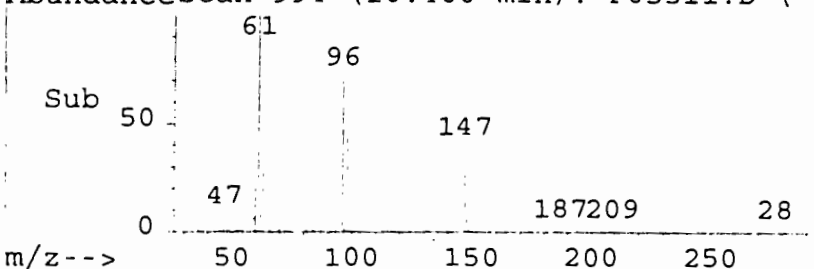
AbundanceScan 1032 (10.682 min): P05322.D (-



AbundanceScan 994 (10.460 min): P05511.D (*)



AbundanceScan 994 (10.460 min): P05511.D (-



#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

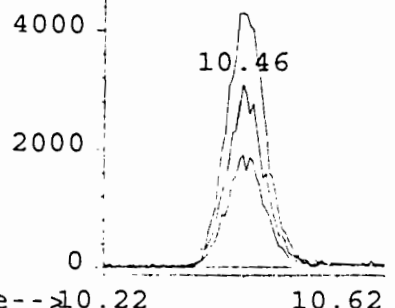
96 100

98 34.2 53.1 79.6#

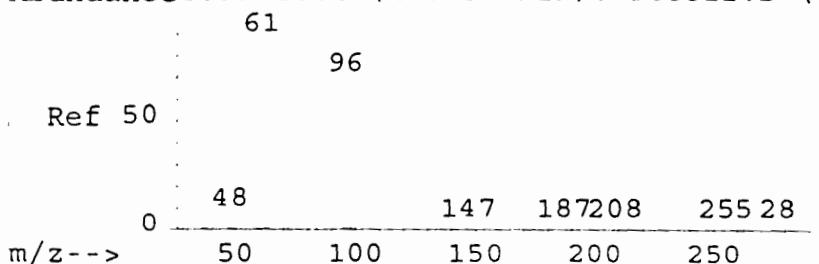
61 152.5 105.0 157.5

0 0.0 0.0 0.0

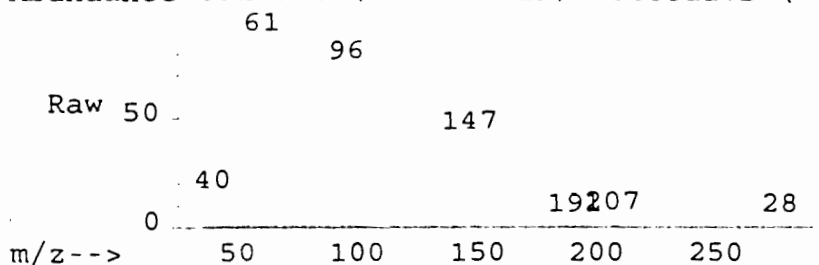
AbundanceIon 95.85 (95.
Ion 97.95 (97.
Ion 60.90 (60.



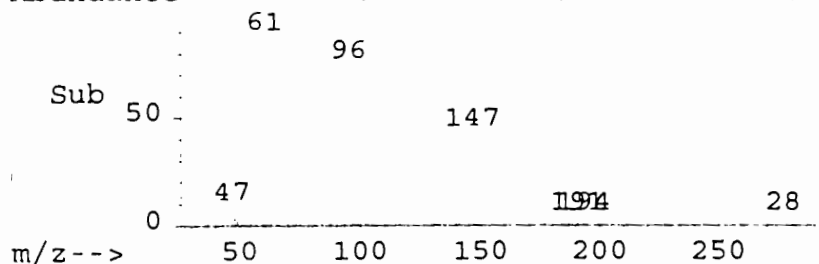
AbundanceScan 1032 (10.682 min): P05322.D (-



AbundanceScan 994 (10.460 min): P05511.D (*)



AbundanceScan 994 (10.460 min): P05511.D (-



#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

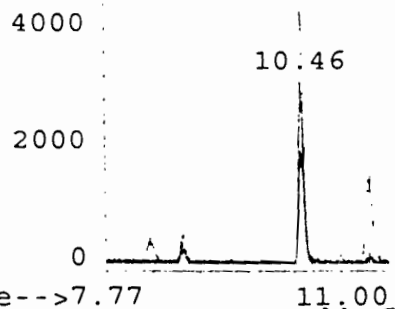
96 100

61 138.8 111.6 151.6

98 62.1 44.6 84.6

0 0.0 0.0 0.0

AbundanceIon 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



Sample Name: 9702292

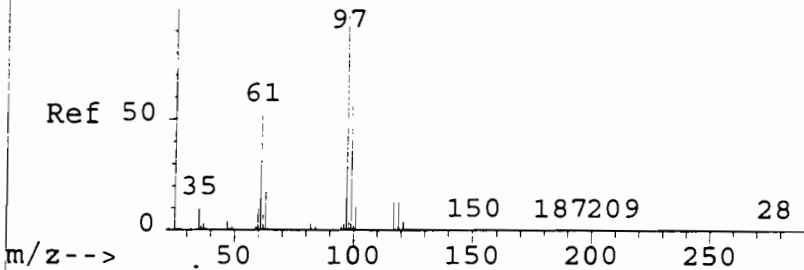
Misc. Info: B60228 H5970-3 1/27/97 5.0ML

P05511.D CLPW.M Tue Feb 11 08:57:53 1997

MASSPEC1

Page 3

AbundanceScan 1193 (11.604 min): P05322.D (



#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

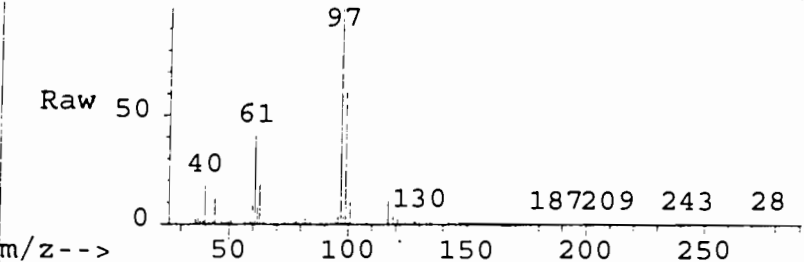
97 100

99 61.5 46.6 86.6

61 40.8 27.5 67.5

0 0.0 0.0 0.0

AbundanceScan 1157 (11.393 min): P05511.D (



AbundanceIon 97.00 (96.

4000 Ion 99.00 (98.

Ion 61.00 (60.

11.39

3000

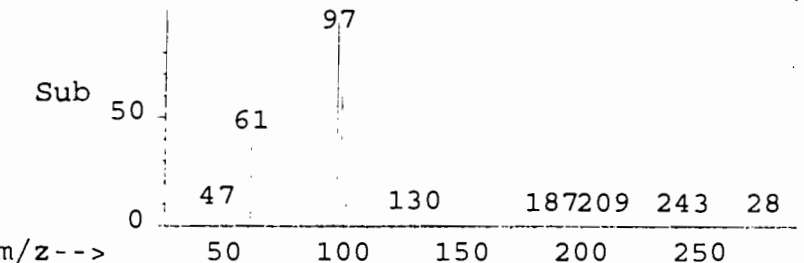
2000

1000

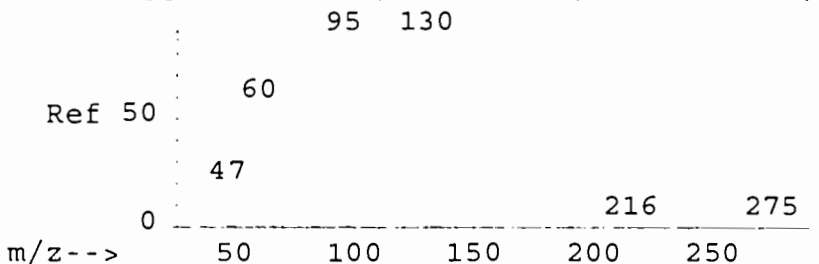
0

Time-->11.10 11.57

AbundanceScan 1157 (11.393 min): P05511.D (



AbundanceScan 1484 (13.269 min): P05322.D (



#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

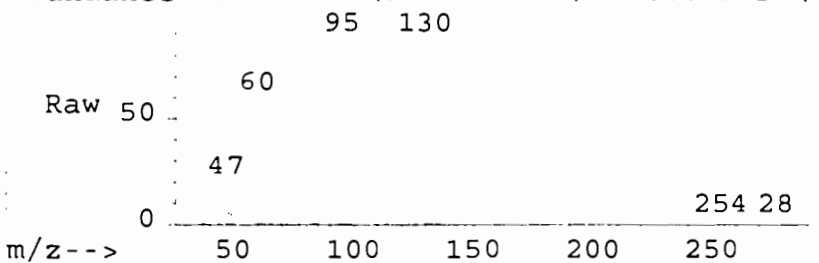
130 100

132 98.8 82.0 122.0

95 110.0 80.0 120.0

0 0.0 0.0 0.0

AbundanceScan 1446 (13.047 min): P05511.D (



AbundanceIon 130.00 (129

20000 Ion 132.00 (131

Ion 95.00 (94.

13.05

15000

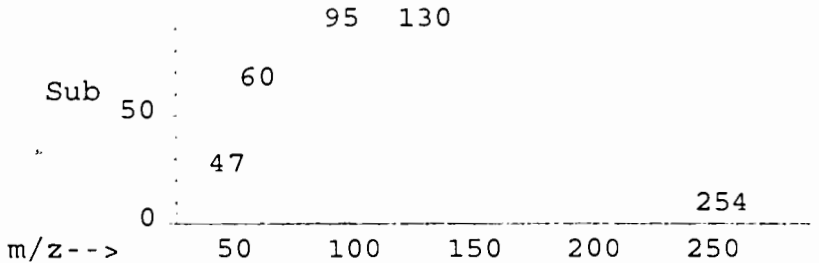
10000

5000

0

Time-->12.81 13.20

AbundanceScan 1446 (13.047 min): P05511.D (



Sample Name: 9702292

Misc. Info: B60228 H5970-3 1/27/97 5.0ML

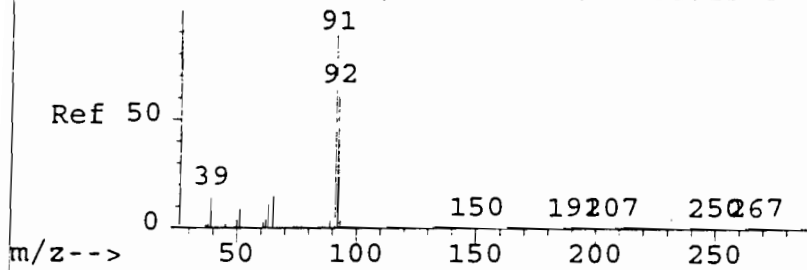
P05511.D CLPW.M Tue Feb 11 08:57:56 1997

MASSPEC1

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V-0059

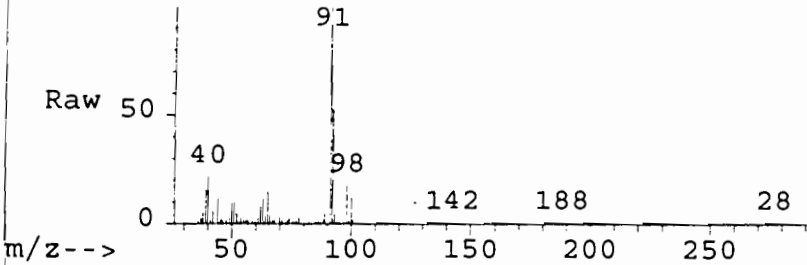
AbundanceScan 1855 (15.393 min): P05322.D (



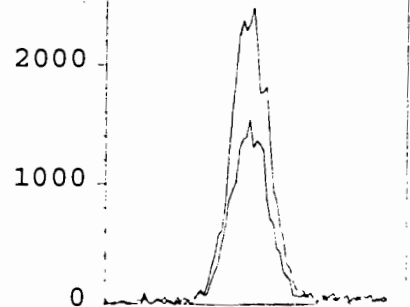
#36
Toluene
Concen: 2.18 UG/L
RT: 15.17 min Scan# 1817
Delta R.T. 0.08 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

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

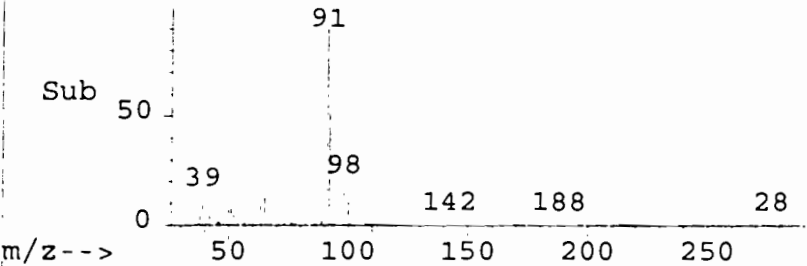
AbundanceScan 1817 (15.170 min): P05511.D (



AbundanceIon 91.00 (90.
Ion 92.00 (91.
15.17

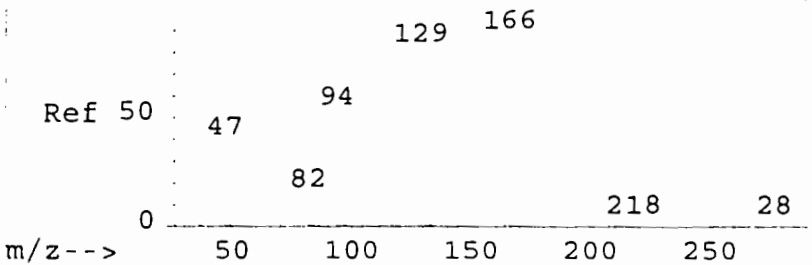


AbundanceScan 1817 (15.170 min): P05511.D (



Time-->14.92 15.32

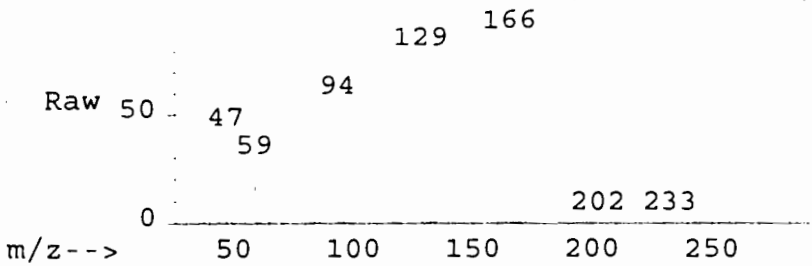
AbundanceScan 2055 (16.538 min): P05322.D (



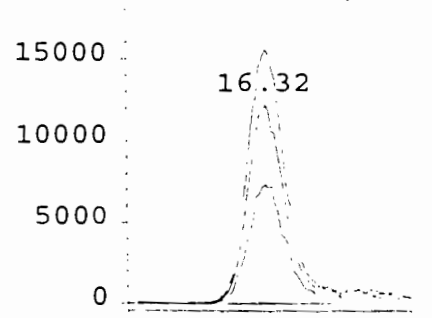
#37
Tetrachloroethene
Concen: 19.56 UG/L
RT: 16.32 min Scan# 2017
Delta R.T. 0.06 min
Lab File: P05511.D
Acq: 28 Jan 97 7:19 pm

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

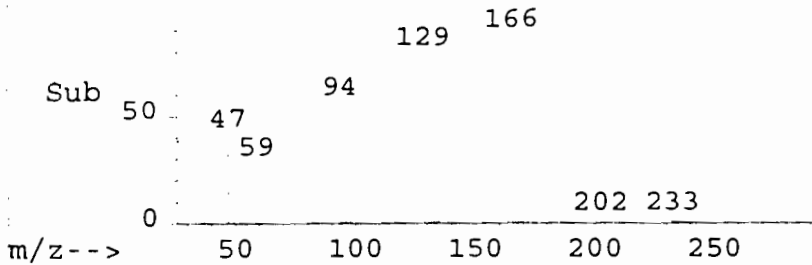
AbundanceScan 2017 (16.315 min): P05511.D (



AbundanceIon 164.00 (163
Ion 166.00 (165
Ion 168.00 (167



AbundanceScan 2017 (16.315 min): P05511.D (



Time-->16.06 16.50

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

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V 0000

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

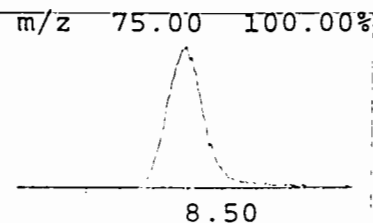
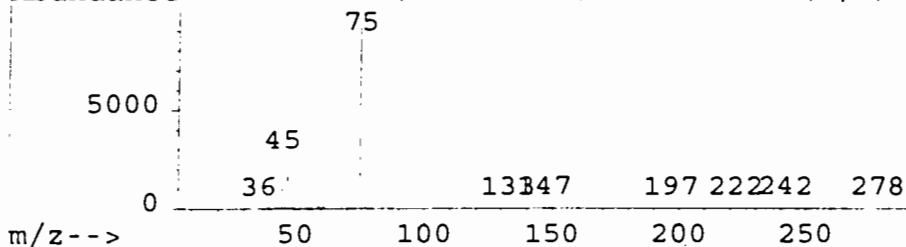
Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

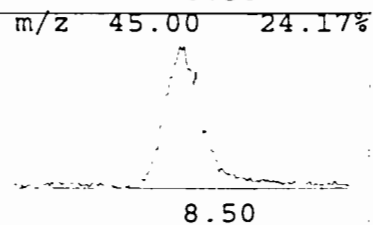
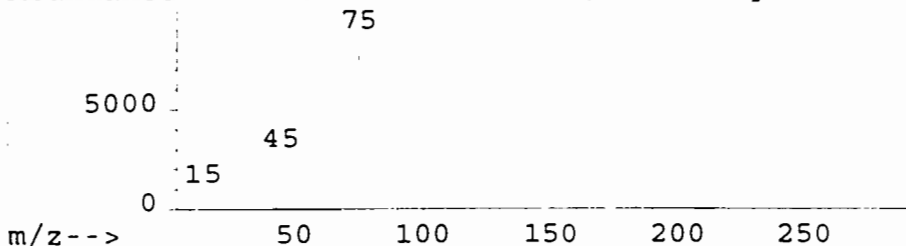
R.T.	Conc	Area	Relative to ISTD	R.T.
8.39	15.91 UG/L	166858	Bromochloromethane	11.01

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

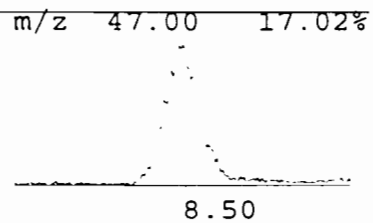
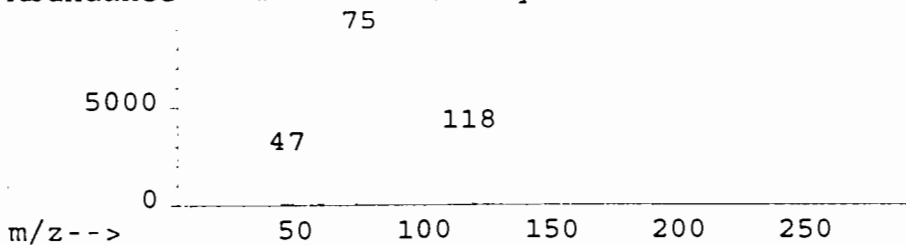
Abundance Scan 632 (8.388 min): P05511.D (-,*)



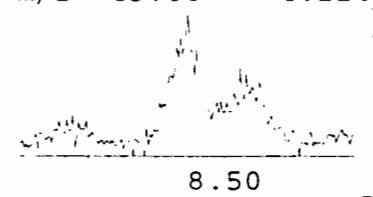
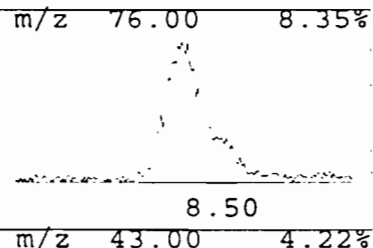
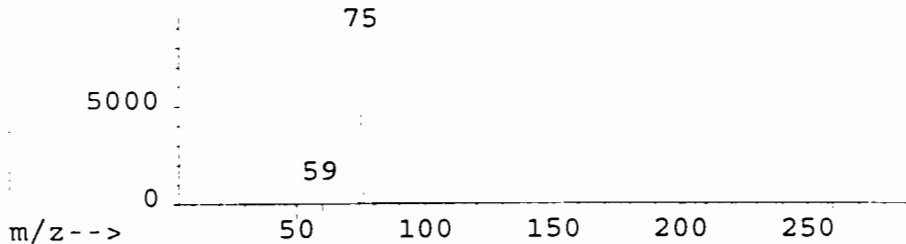
Abundance #62980: Silanol, trimethyl-



Abundance #3484: 3-(Methylthio)-2-butanone



Abundance #3513: Ethanol, 2-(trimethylsilyl)-



V-0061

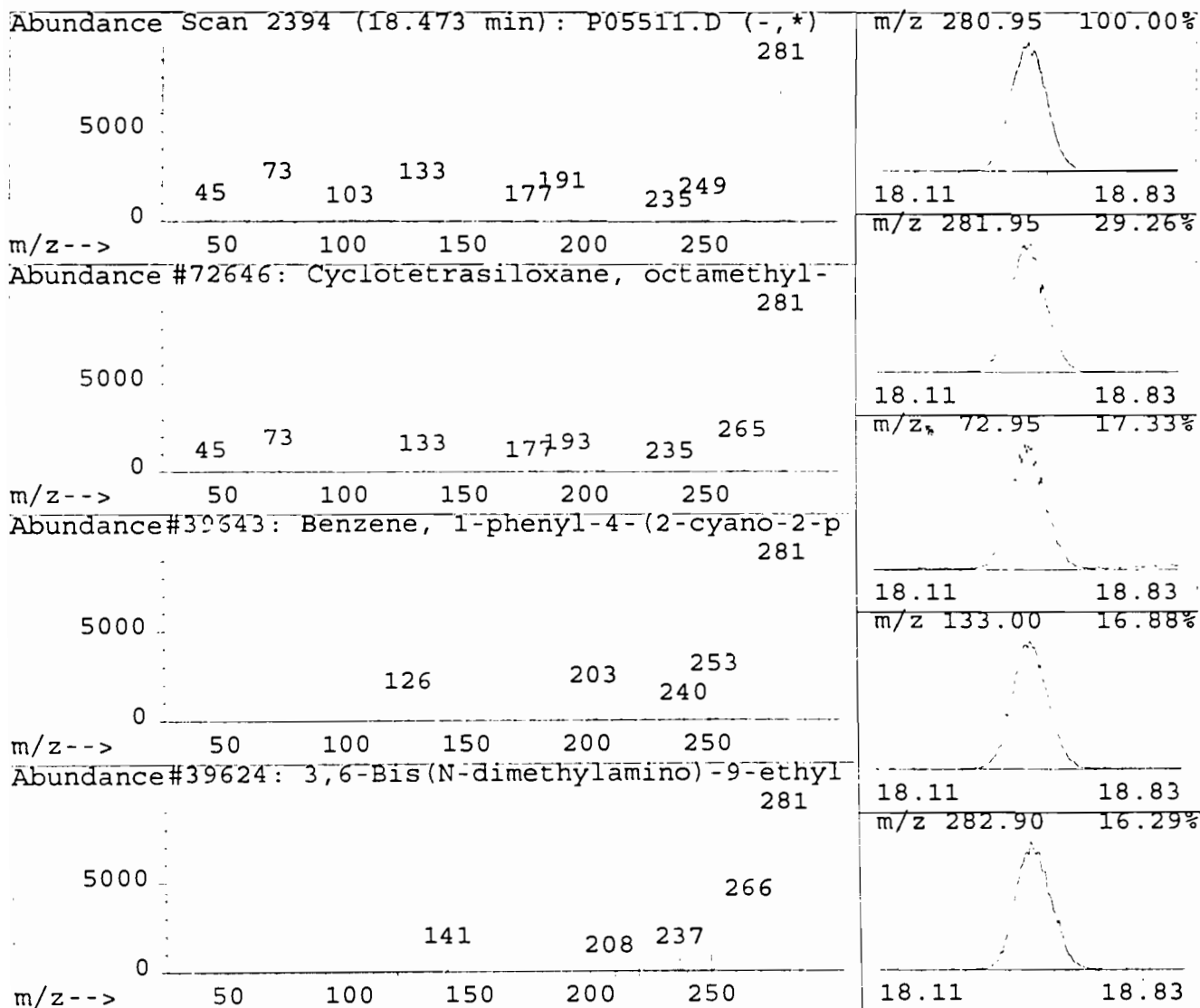
Library Search Compound Report

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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60229

Monitoring
well

NC-17

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:

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:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

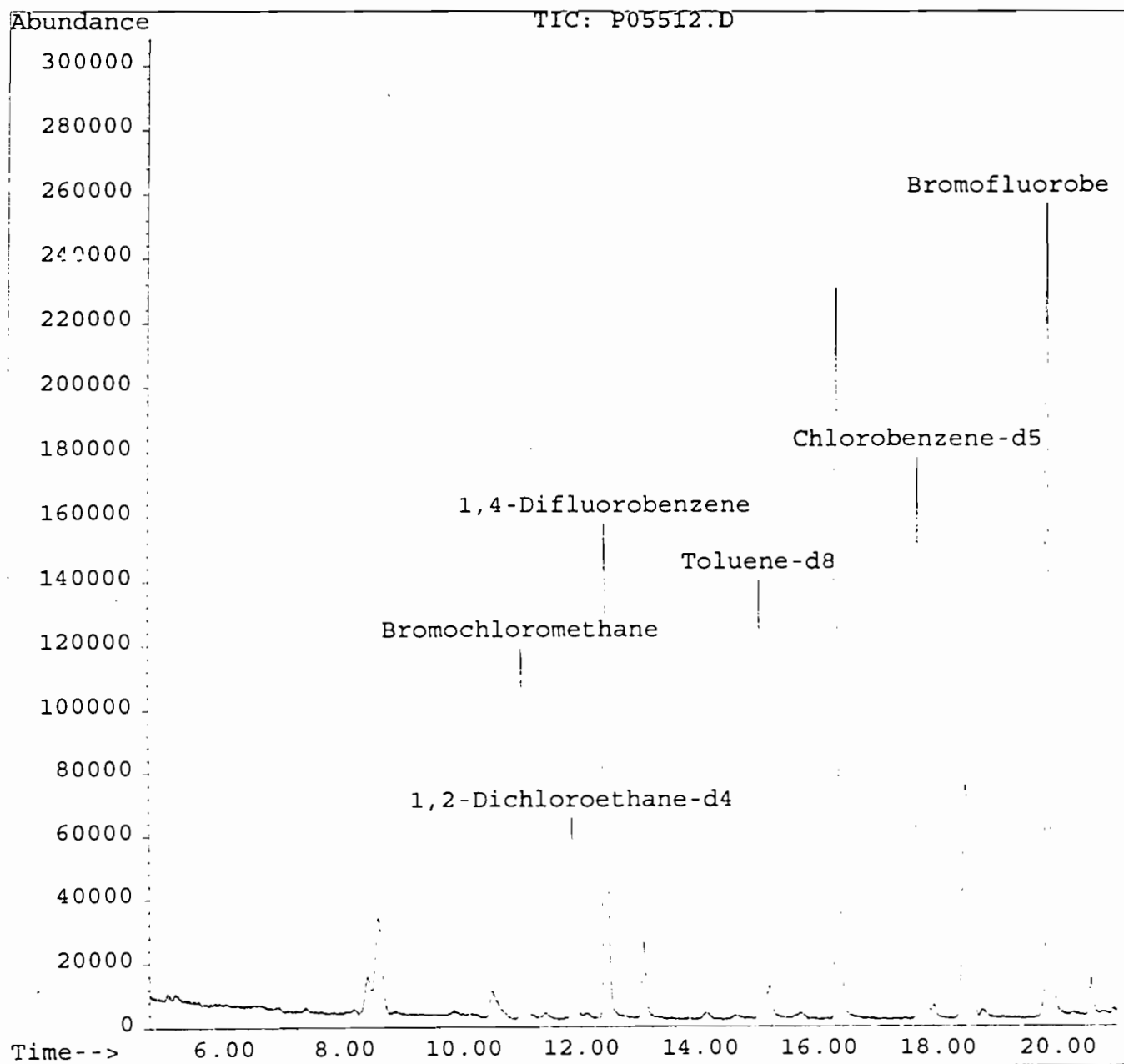
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.39	6	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	8.57	6	JN

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

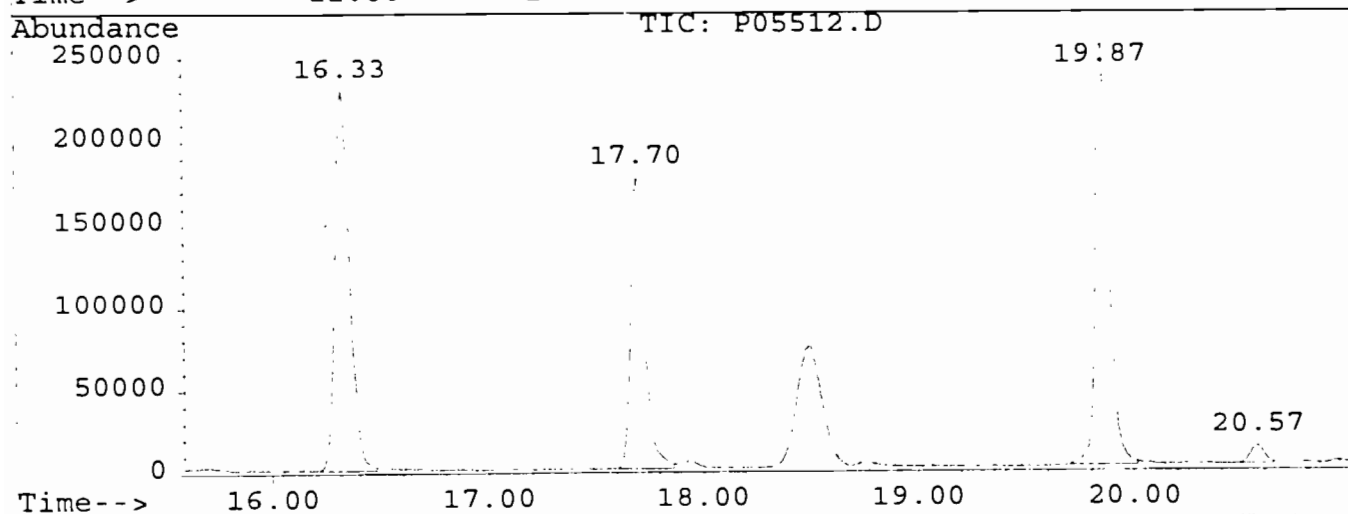
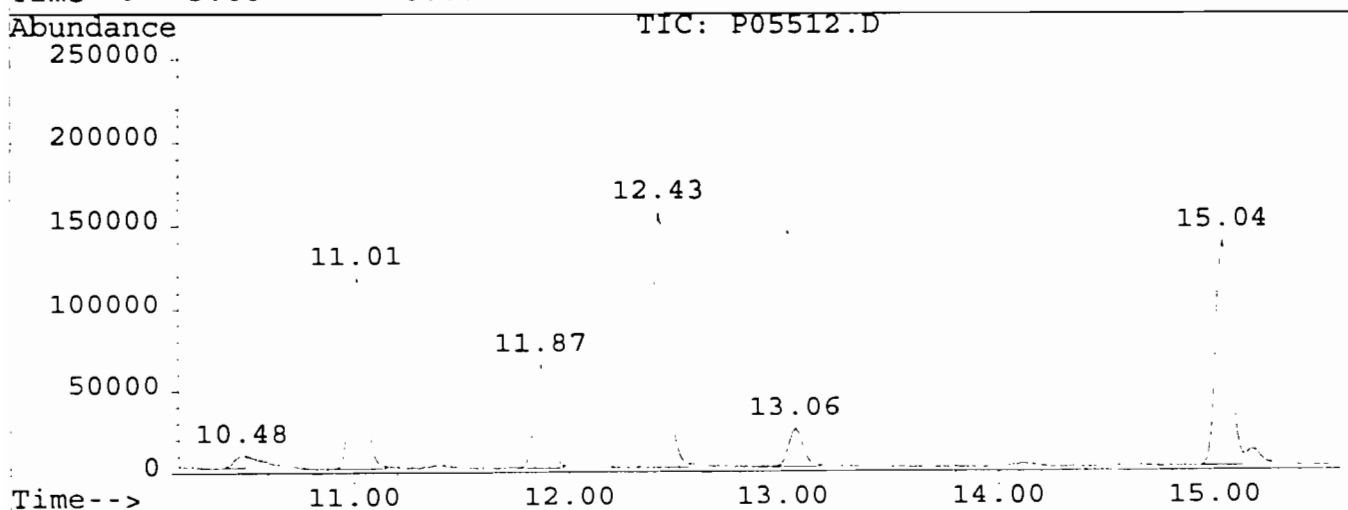
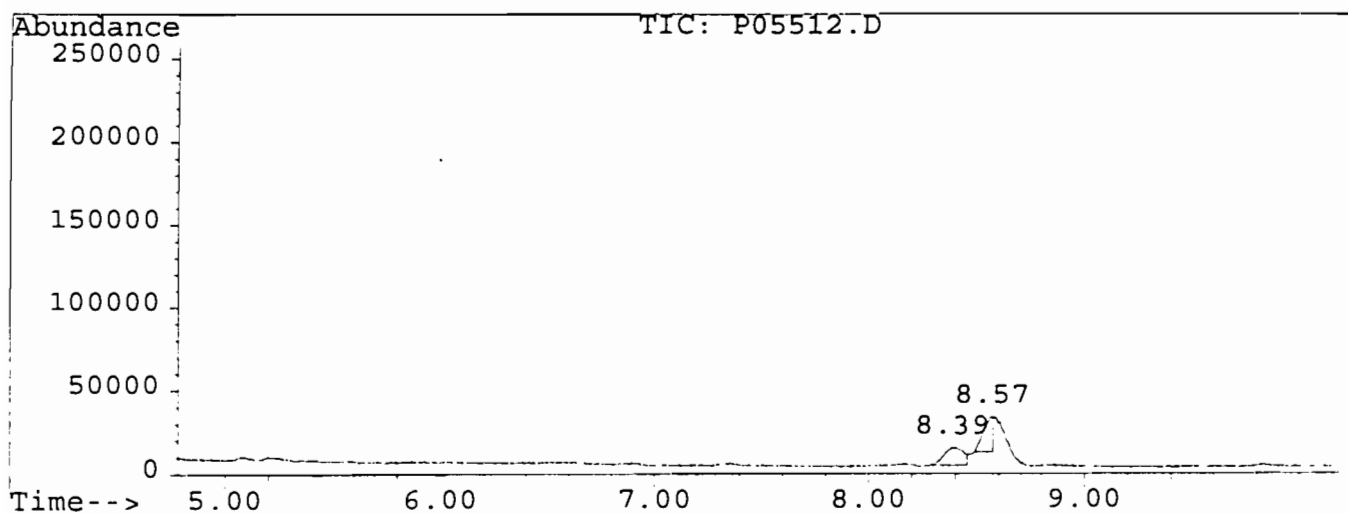
Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

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

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

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

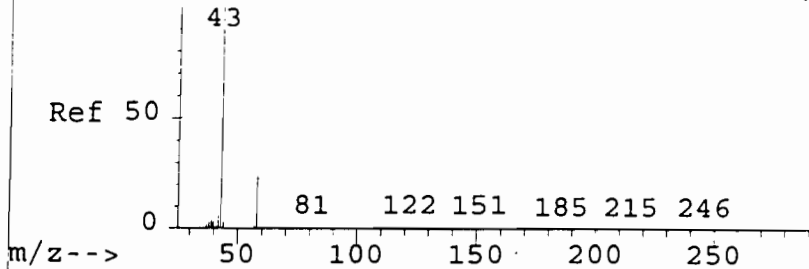
Method: CLPW

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

AbundanceScan 482 (7.534 min): P05322.D (-,



#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

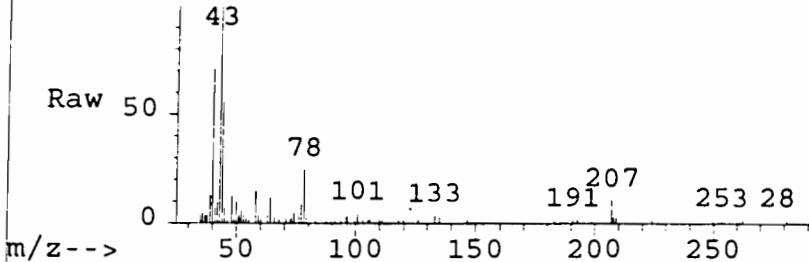
43 100

58 10.9 9.7 49.7

0 0.0 0.0 0.0

0 0.0 0.0 0.0

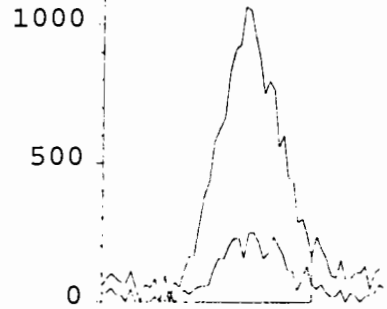
AbundanceScan 449 (7.345 min): P05512.D (*)



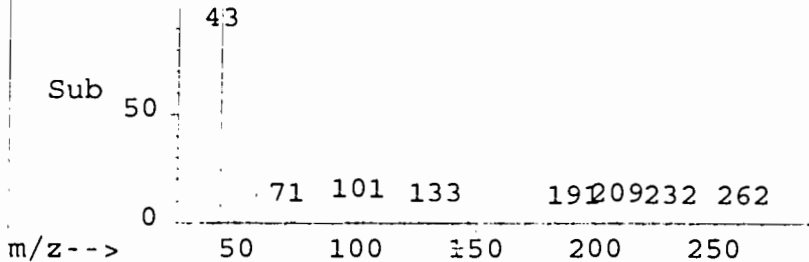
AbundanceIon 43.00 (42.

Ion 58.00 (57.

7.35

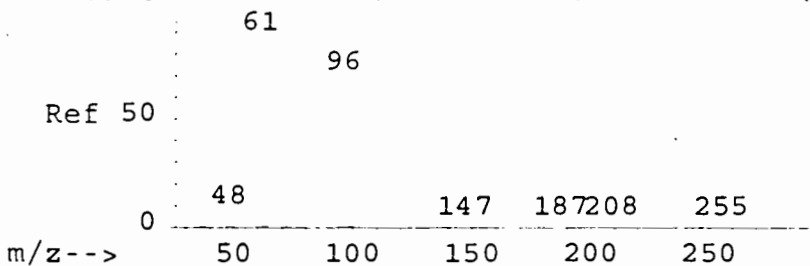


AbundanceScan 449 (7.345 min): P05512.D (-,



Time-->7.18 7.47

AbundanceScan 1032 (10.682 min): P05322.D (-,



#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

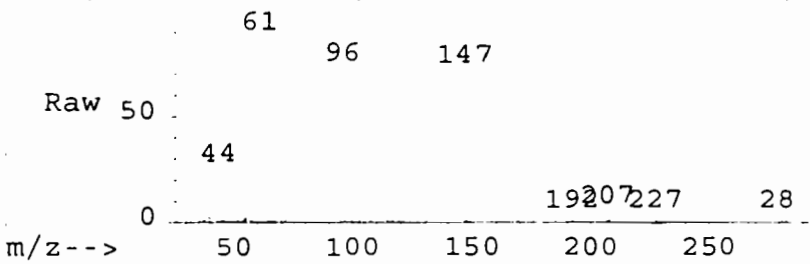
96 100

98 71.9 53.1 79.6

61 161.4 105.0 157.5#

0 0.0 0.0 0.0

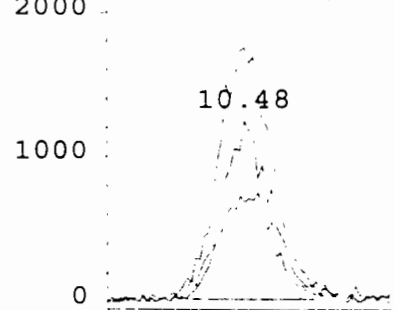
AbundanceScan 996 (10.476 min): P05512.D (*)



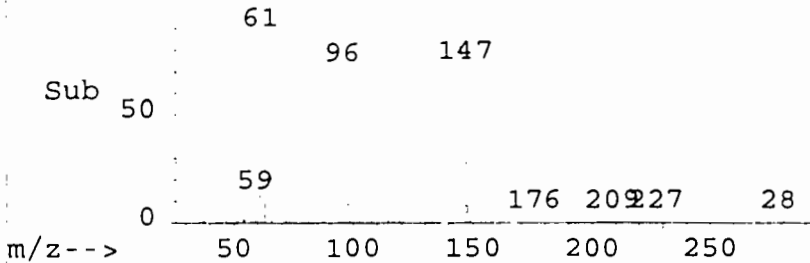
AbundanceIon 95.85 (95.

Ion 97.95 (97.

Ion 60.90 (60.



AbundanceScan 996 (10.476 min): P05512.D (-,



Time-->10.30 10.60

Sample Name: 9702293

Misc. Info: B60229 H5970-3 1/27/97 5.0ML

P05512.D CLPW.M

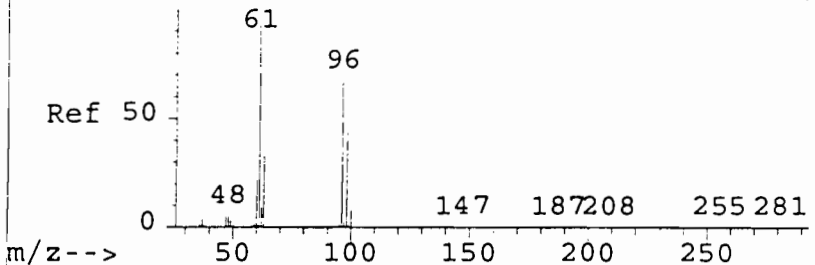
Tue Feb 11 08:58:16 1997

MASSPEC1

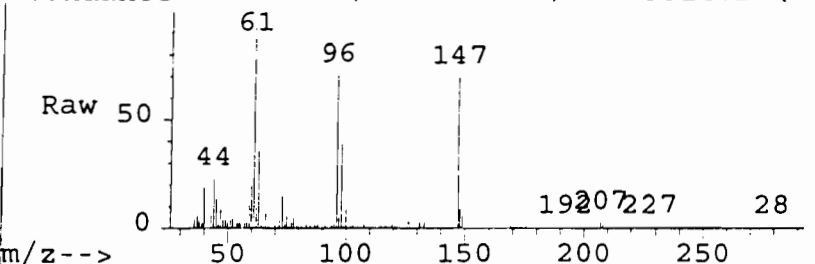
Page 3

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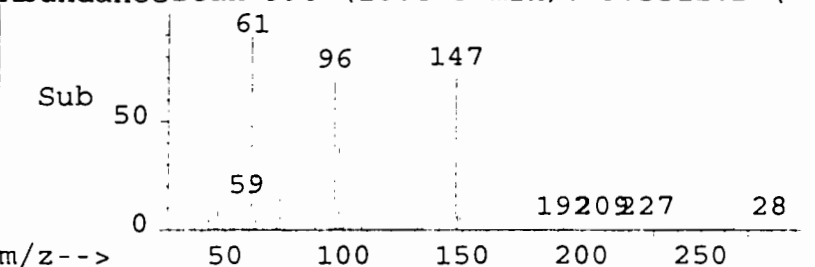
AbundanceScan 1032 (10.682 min): P05322.D (



AbundanceScan 996 (10.476 min): P05512.D (*)



AbundanceScan 996 (10.476 min): P05512.D (-

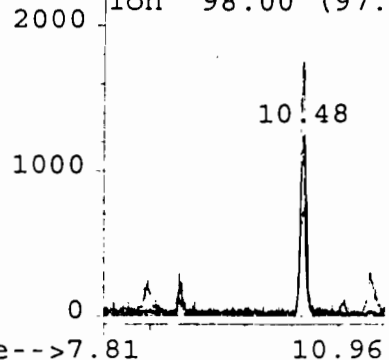


#15

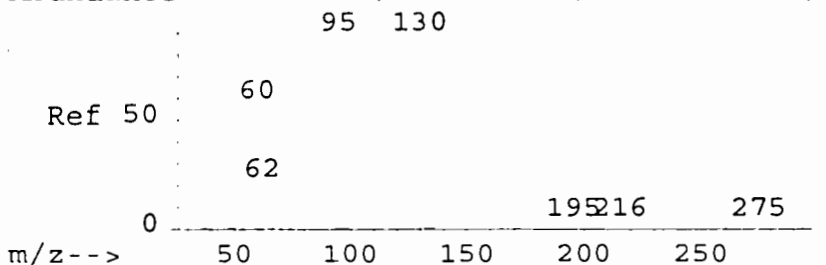
1,2-Dichloroethene (total)
Concen: 3.38 UG/L m
RT: 10.48 min Scan# 996
Delta R.T. 1.67 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

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

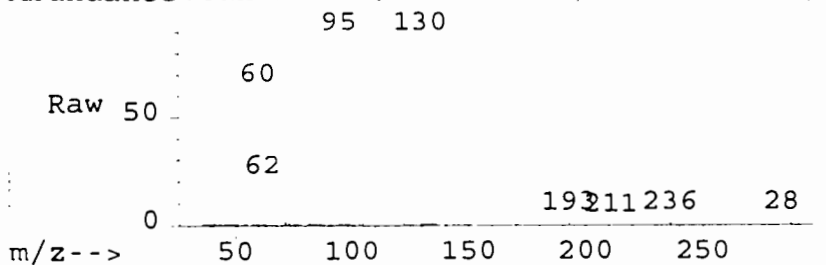
Abundance	Ion	96.00	(95.
	Ion	61.00	(60.
	Ion	98.00	(97.



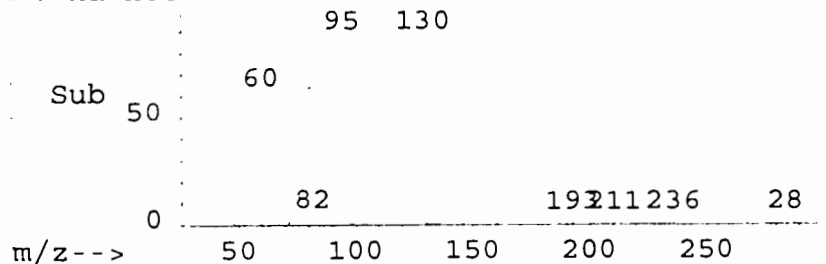
AbundanceScan 1484 (13.269 min): P05322.D (



AbundanceScan 1448 (13.063 min): P05512.D (



AbundanceScan 1448 (13.063 min): P05512.D (

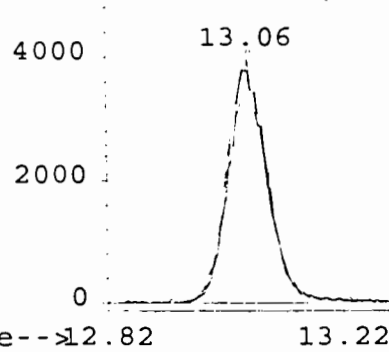


#24

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

Abundance	Ion	130.00	(129
	Ion	132.00	(131
	Ion	95.00	(94.



Sample Name: 9702293

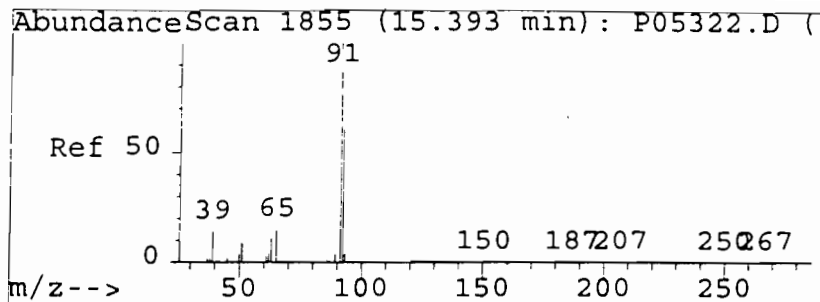
Misc. Info: B60229 H5970-3 1/27/97 5.0ML

P05512.D CLPW.M Tue Feb 11 08:58:20 1997

MASSPEC1

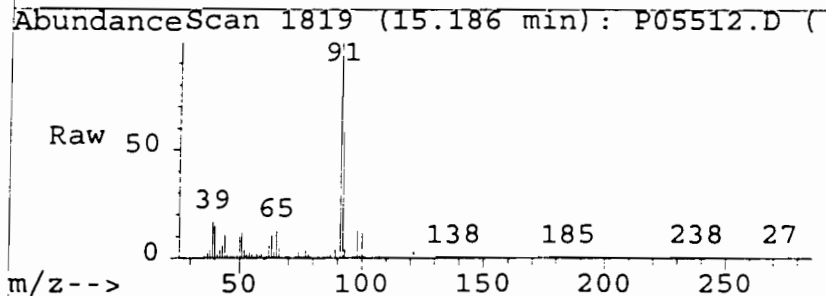
Page 4

V 0070

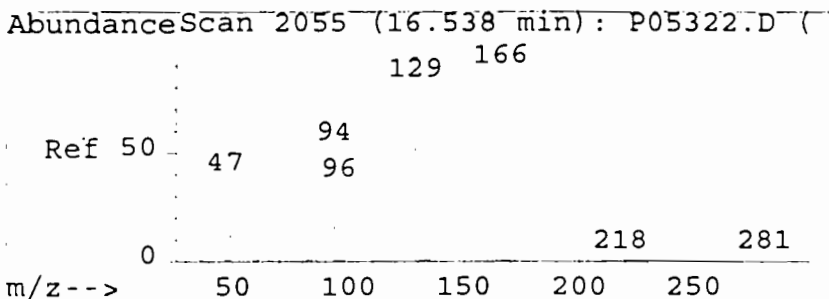
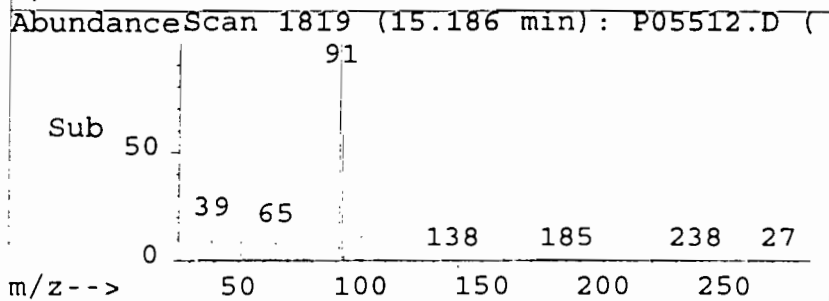
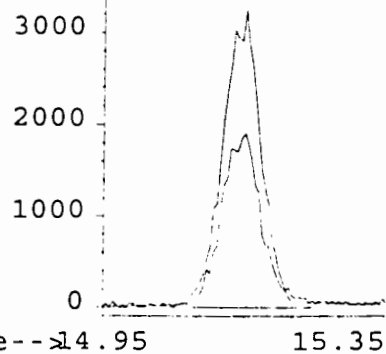


#36
Toluene
Concen: 2.69 UG/L
RT: 15.19 min Scan# 1819
Delta R.T. 0.09 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

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

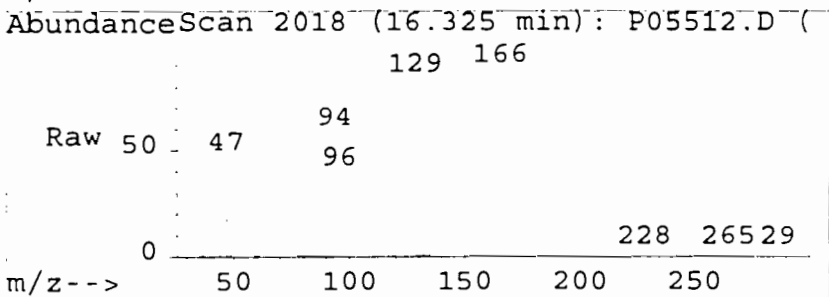


AbundanceIon 91.00 (90.
Ion 92.00 (91.
15.19

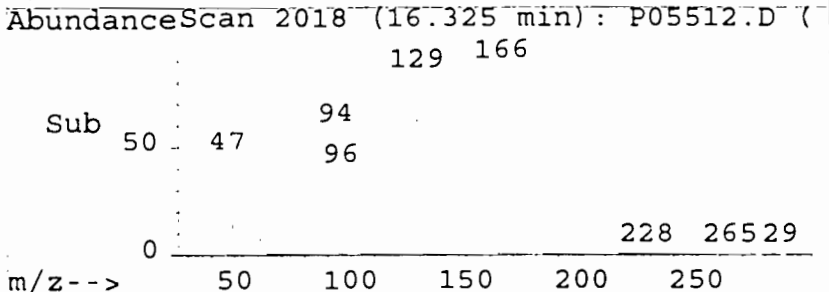
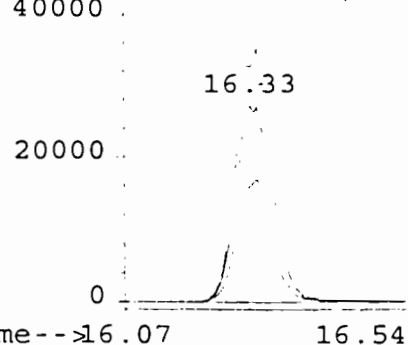


#37
Tetrachloroethene
Concen: 40.57 UG/L
RT: 16.33 min Scan# 2018
Delta R.T. 0.07 min
Lab File: P05512.D
Acq: 28 Jan 97 7:49 pm

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



AbundanceIon 164.00 (163
Ion 166.00 (165
Ion 168.00 (167



Sample Name: 9702293
Misc. Info: B60229 H5970-3 1/27/97 5.0ML
P05512.D CLPW.M Tue Feb 11 08:58:23 1997

MASSPEC1

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Library Search Compound Report

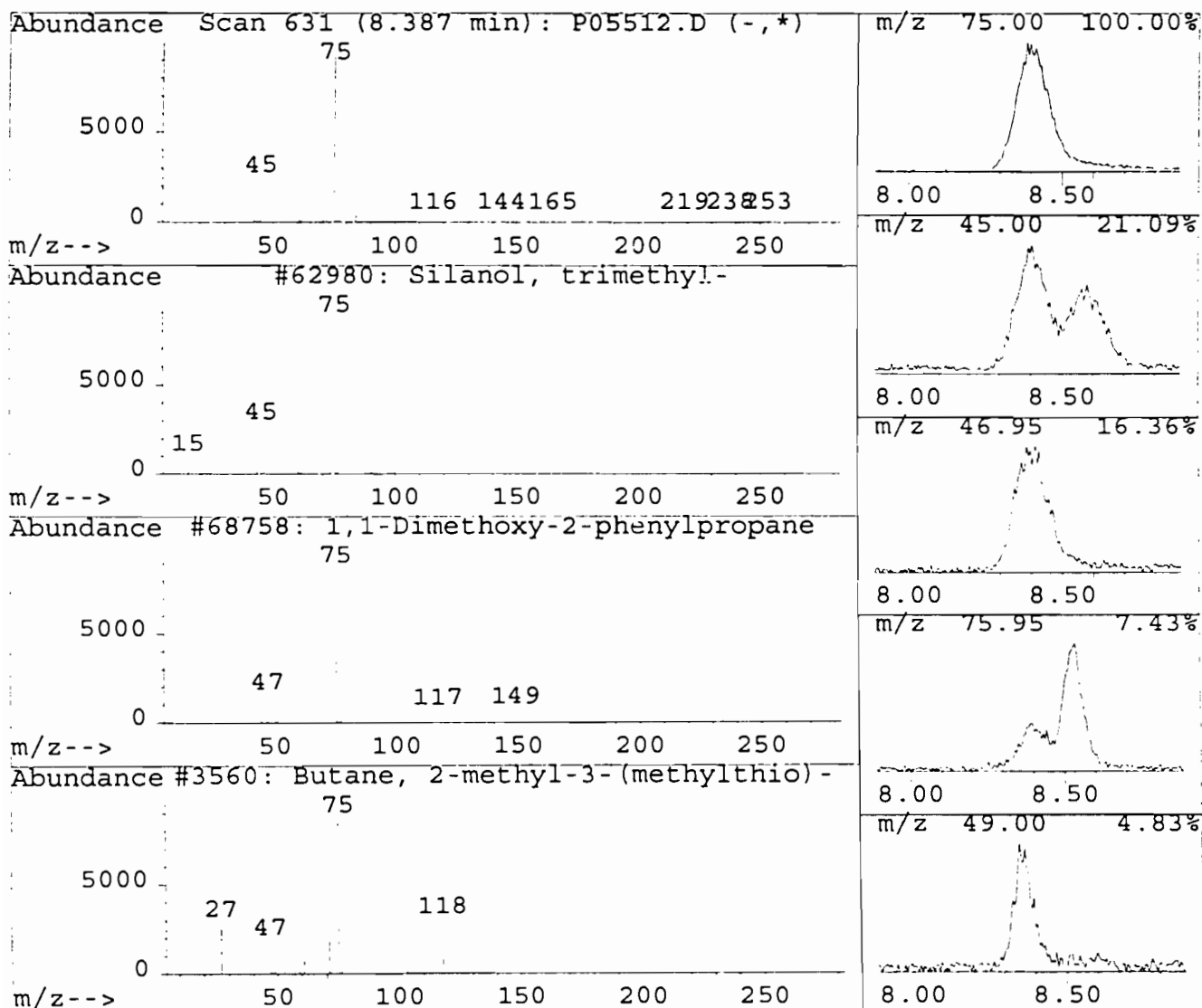
Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 19:49
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML

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

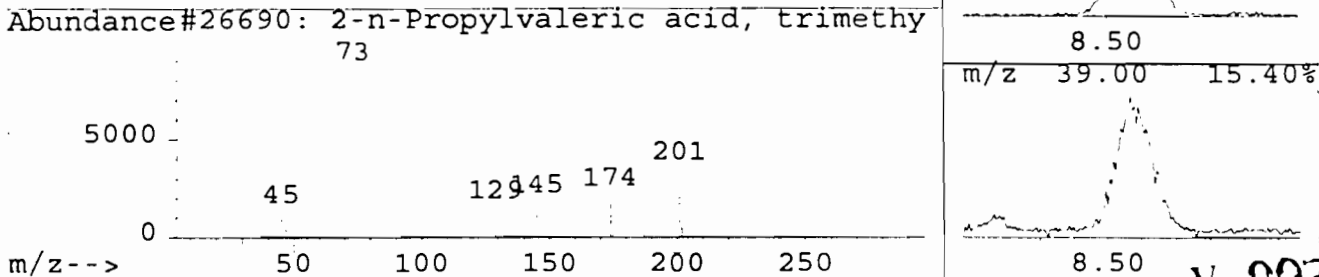
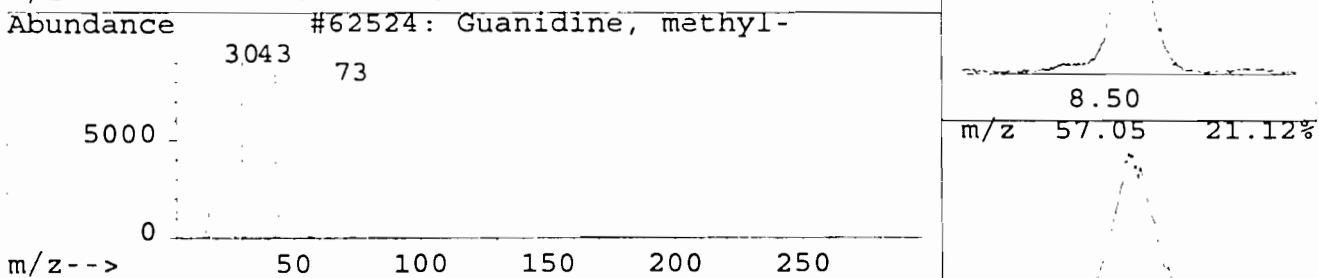
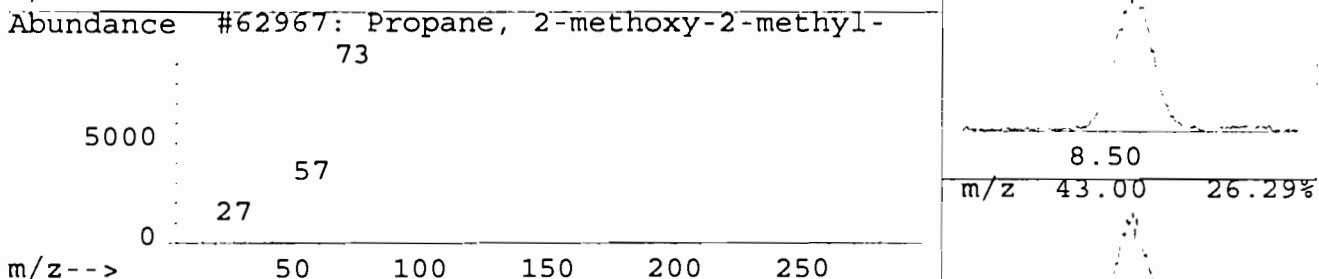
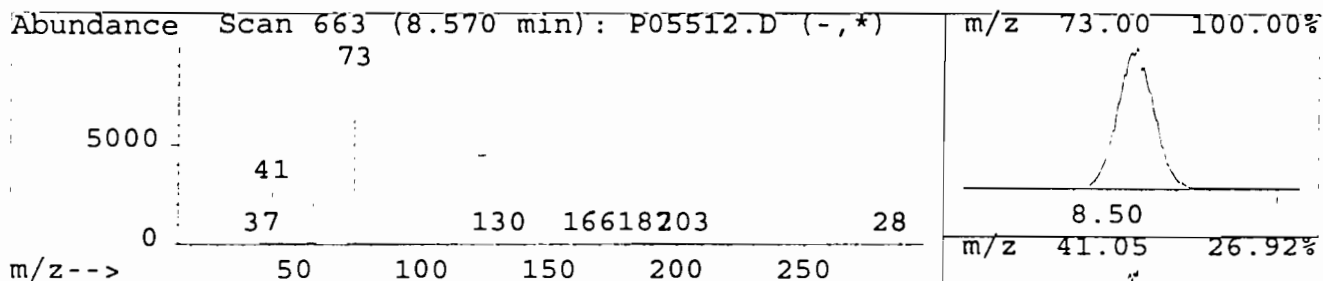
Data File : C:\HPCHEM\1\DATA\P05512.D
Acq On : 28 Jan 97 19:49
Sample : 9702293
Misc : B60229 H5970-3 1/27/97 5.0ML

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



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

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:

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	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

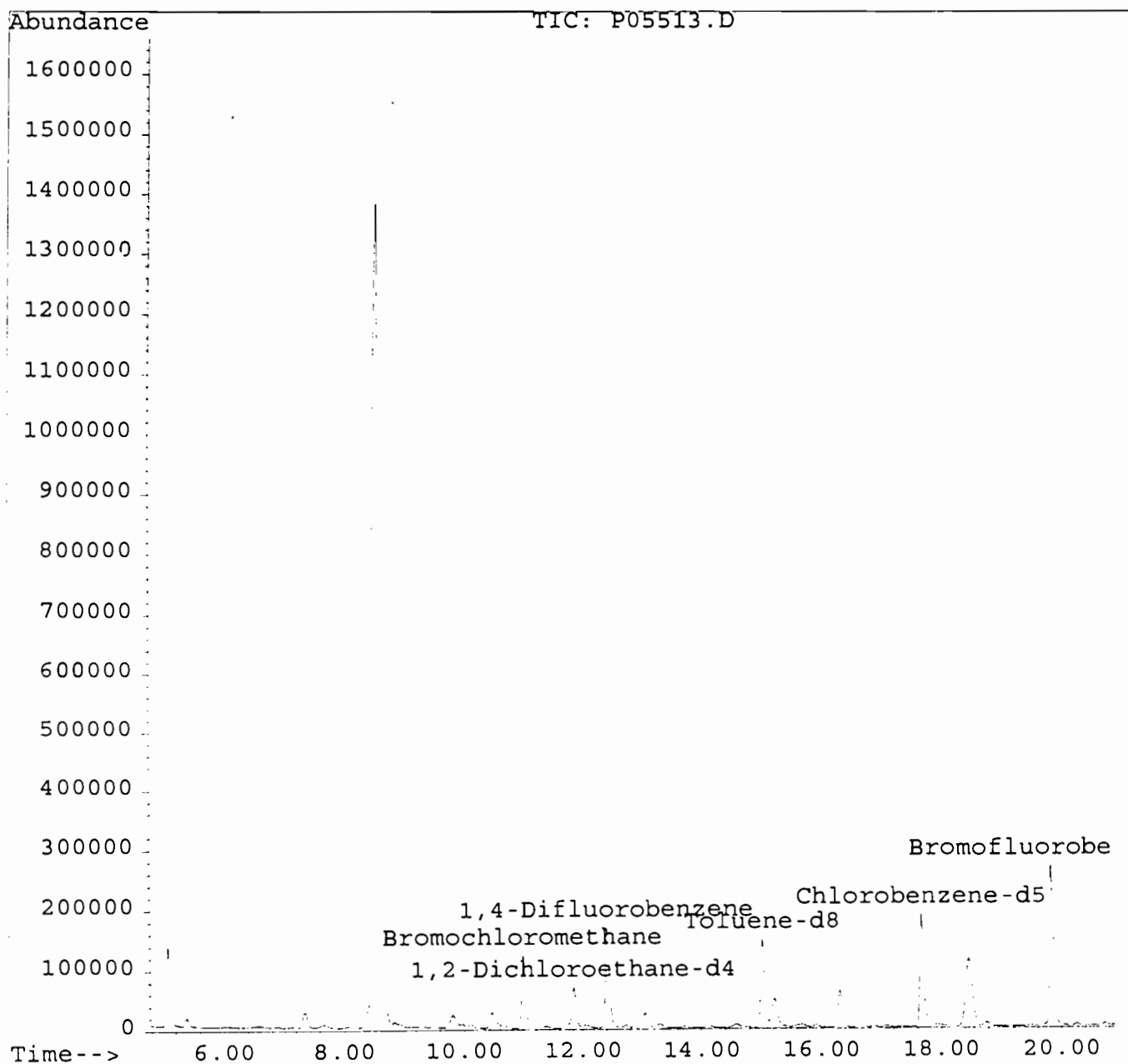
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000115-11-7	1-Propene, 2-methyl-	5.07	52	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	8.57	990	JN
3.	unknown	9.82	14	J
4. 000590-50-1	2-Pentanone, 4,4-dimethyl-	15.22	17	JN
5. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	25	JN

Quantitation Report

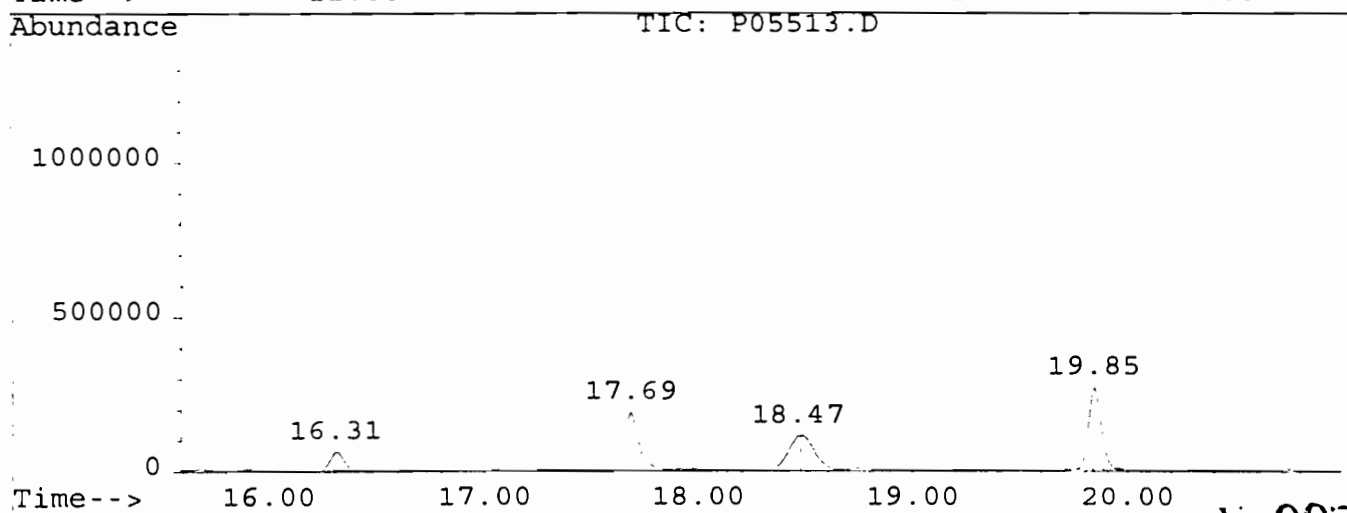
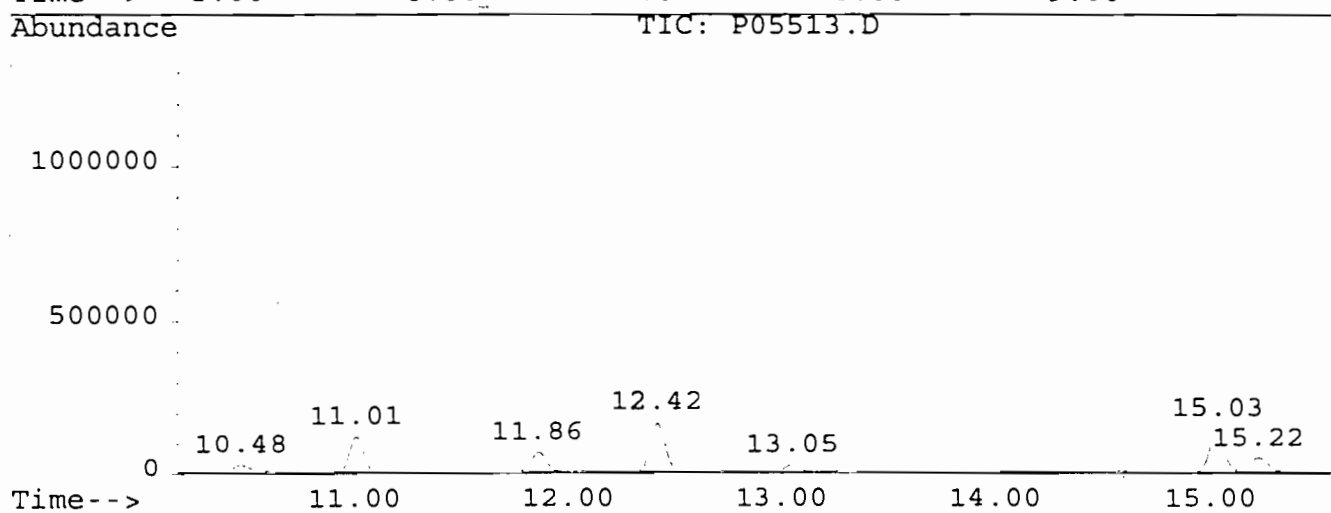
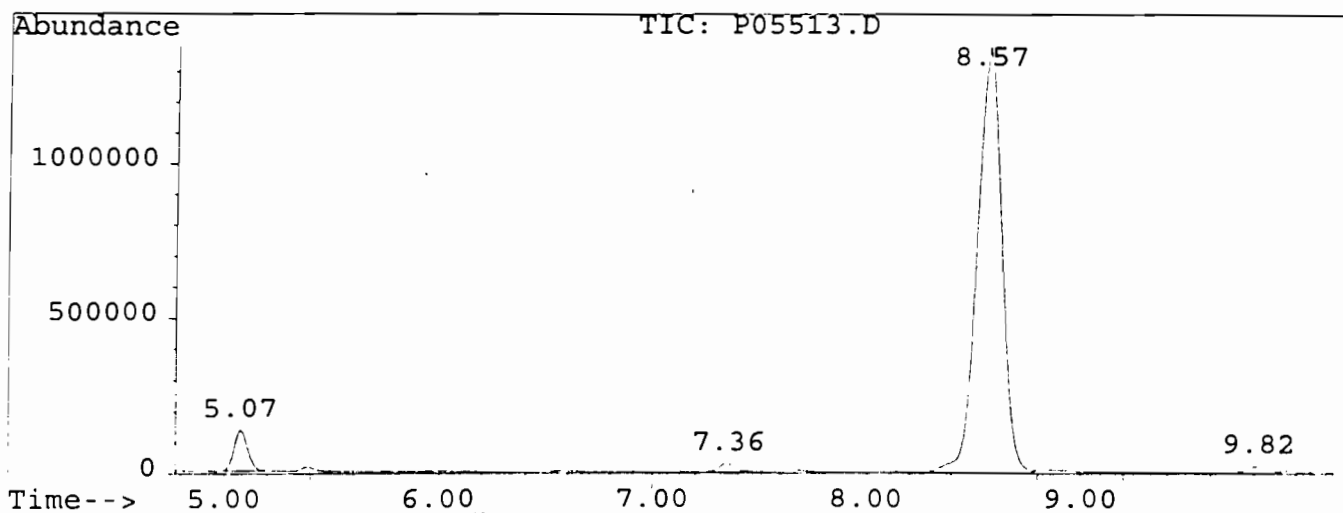
Data File : C:\HPCHEM\1\DATA\P05513.D
 Acq On : 28 Jan 97 8:18 pm
 Sample : 9702294
 Misc : B60230 H5970-3 1/27/97 5.0ML
 Quant Time: Feb 11 8:46 1997

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



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
 Acq On : 28 Jan 97 20:18
 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 : 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

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

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

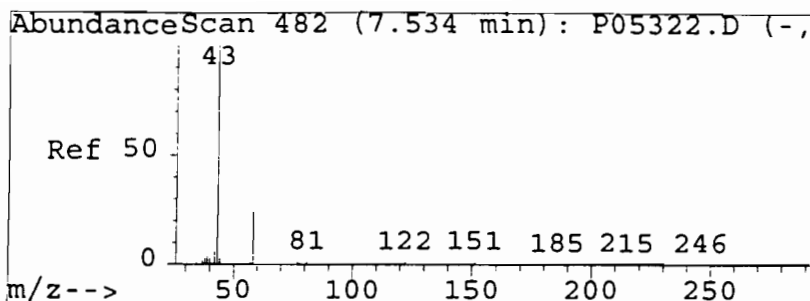
Misc: B60230 H5970-3 1/27/97 5.0ML

Method: CLPW

Title: VOA CLP WATER METHOD

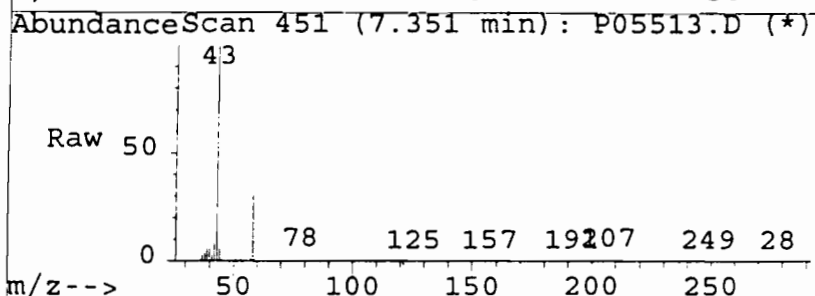
Library Searched: NBS75K.L

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

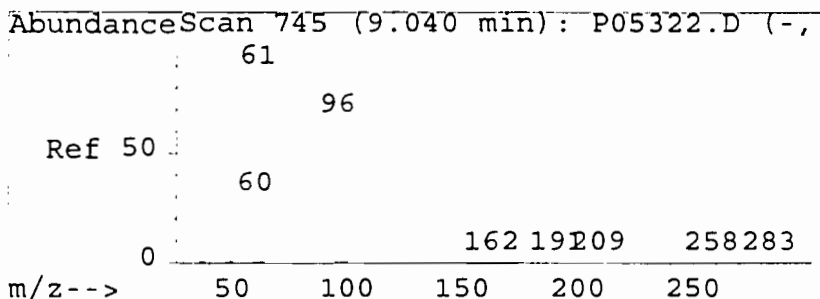
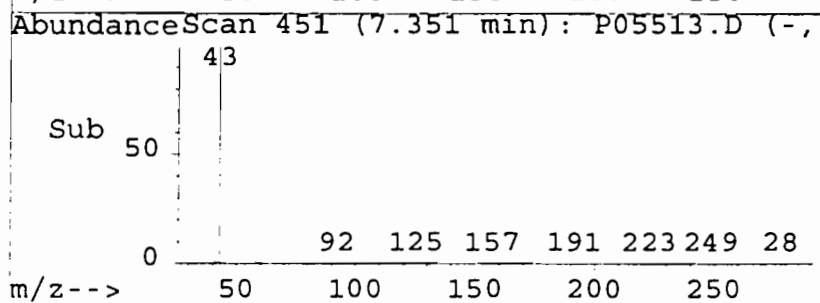
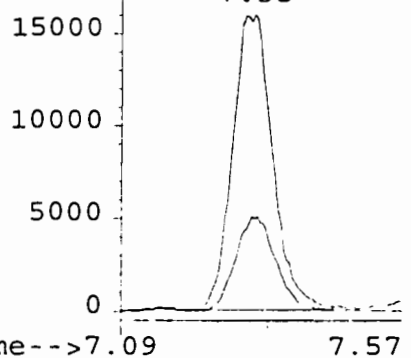


#8
 Acetone
 Concen: 154.64 UG/L
 RT: 7.35 min Scan# 451
 Delta R.T. 0.02 min
 Lab File: P05513.D
 Acq: 28 Jan 97 8:18 pm

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

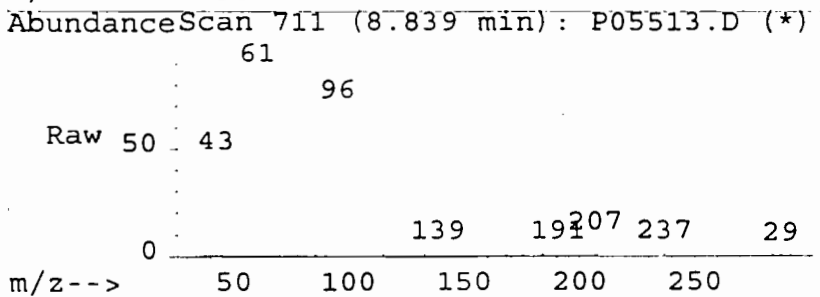


AbundanceIon 43.00 (42.
 Ion 58.00 (57.
 7.35

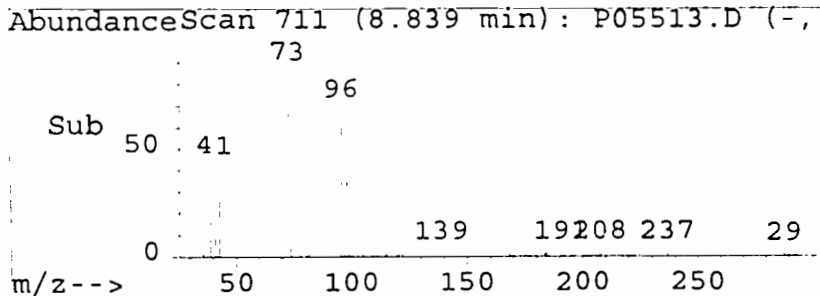
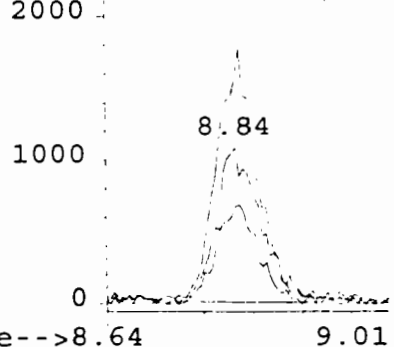


#13
 trans-1,2-Dichloroethene
 Concen: 1.68 UG/L
 RT: 8.84 min Scan# 711
 Delta R.T. 0.03 min
 Lab File: P05513.D
 Acq: 28 Jan 97 8:18 pm

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



AbundanceIon 95.85 (95.
 Ion 97.95 (97.
 Ion 60.90 (60.



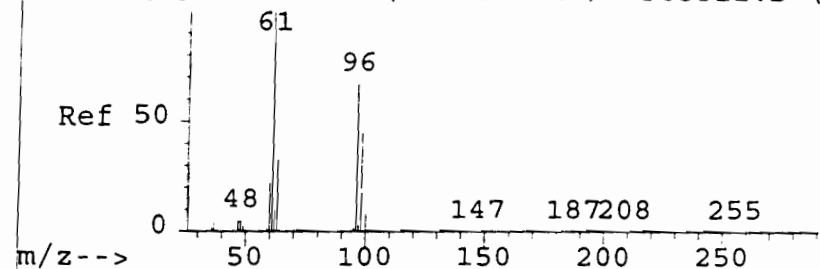
Sample Name: 9702294
 Misc. Info: B60230 H5970-3 1/27/97 5.0ML
 P05513.D CLPW.M Tue Feb 11 08:58:40 1997

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AbundanceScan 1032 (10.682 min): P05322.D (



#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

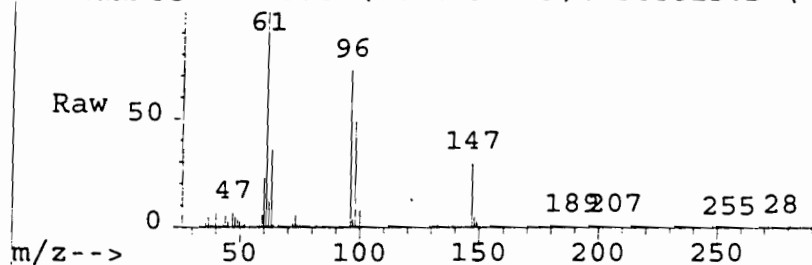
96 100

98 67.7 53.1 79.6

61 147.2 105.0 157.5

0 0.0 0.0 0.0

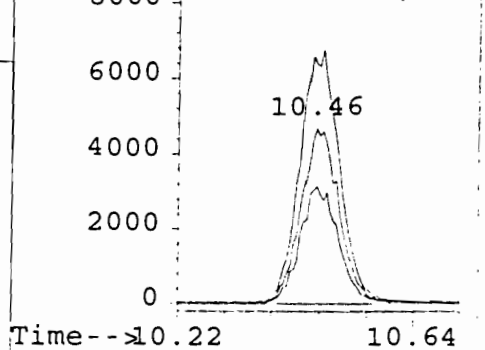
AbundanceScan 995 (10.465 min): P05513.D (*)



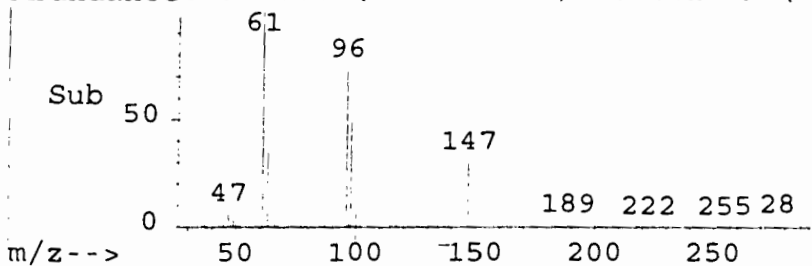
AbundanceIon 95.85 (95.

Ion 97.95 (97.

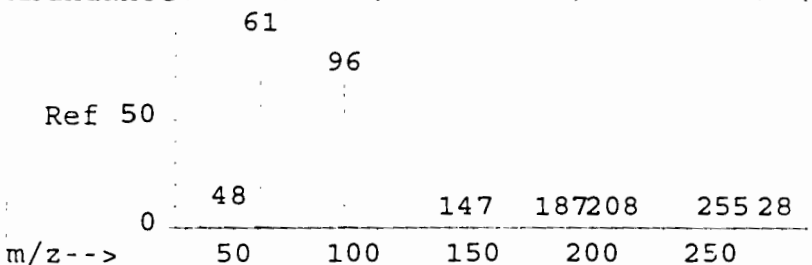
Ion 60.90 (60.



AbundanceScan 995 (10.465 min): P05513.D (-



AbundanceScan 1032 (10.682 min): P05322.D (



#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

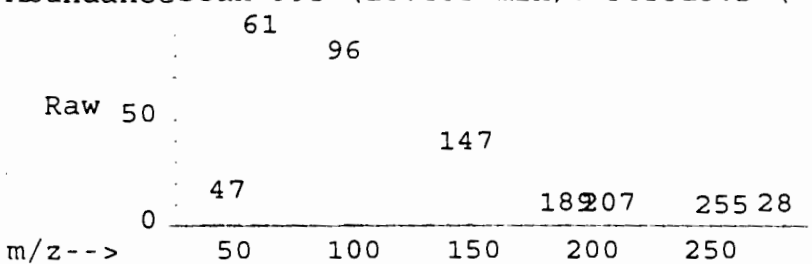
96 100

61 136.1 111.6 151.6

98 67.1 44.6 84.6

0 0.0 0.0 0.0

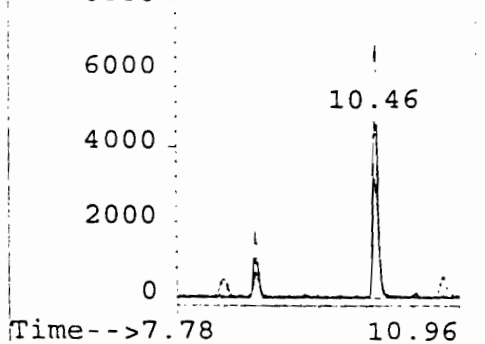
AbundanceScan 995 (10.465 min): P05513.D (*)



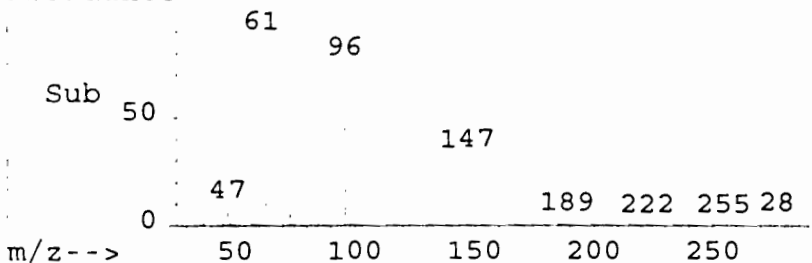
AbundanceIon 96.00 (95.

Ion 61.00 (60.

Ion 98.00 (97.



AbundanceScan 995 (10.465 min): P05513.D (-



Sample Name: 9702294

Misc. Info: B60230 H5970-3 1/27/97 5.0ML

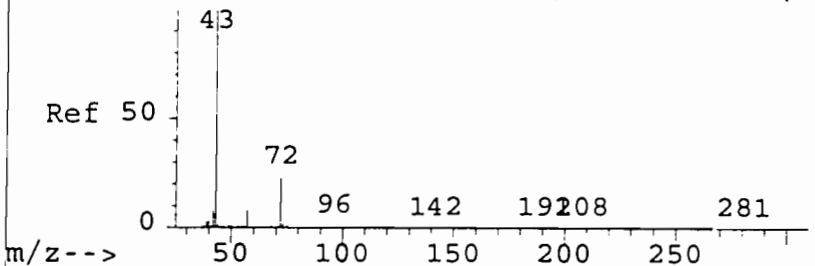
P05513.D CLPW.M Tue Feb 11 08:58:44 1997

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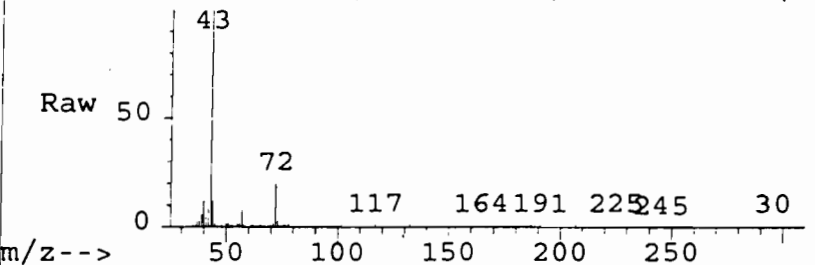
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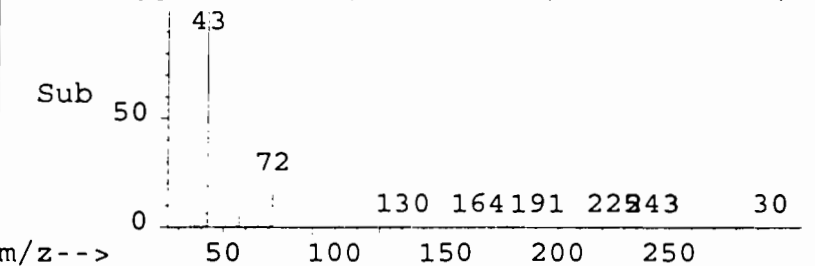
AbundanceScan 969 (10.322 min): P05322.D (-



AbundanceScan 932 (10.104 min): P05513.D (*)



AbundanceScan 932 (10.104 min): P05513.D (-



#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

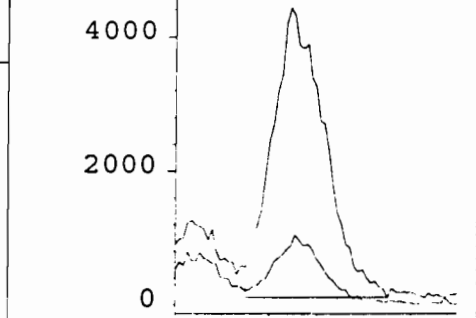
0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceIon 42.95 (42.

Ion 72.00 (71.

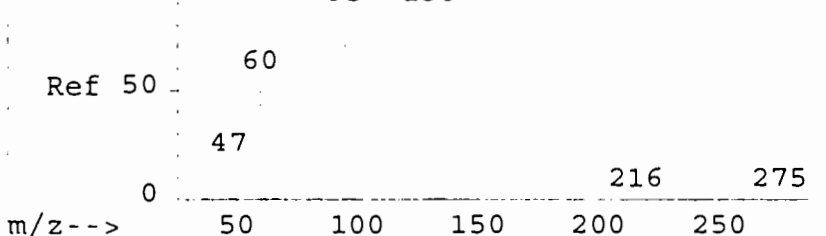
10.10



Time-->9.94 10.27

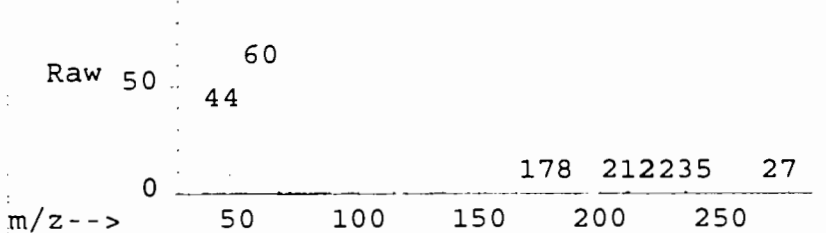
AbundanceScan 1484 (13.269 min): P05322.D (-

95 130



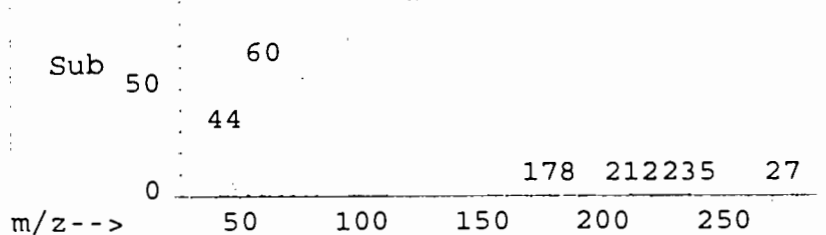
AbundanceScan 1446 (13.046 min): P05513.D (-

95 130



AbundanceScan 1446 (13.046 min): P05513.D (-

95 130



#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

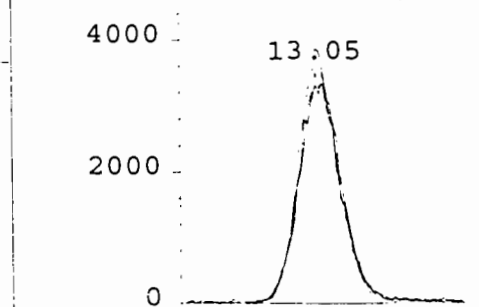
95 109.3 80.0 120.0

0 0.0 0.0 0.0

AbundanceIon 130.00 (129

Ion 132.00 (131

Ion 95.00 (94.



Time-->12.82 13.21

Sample Name: 9702294

Misc. Info: B60230 H5970-3 1/27/97 5.0ML

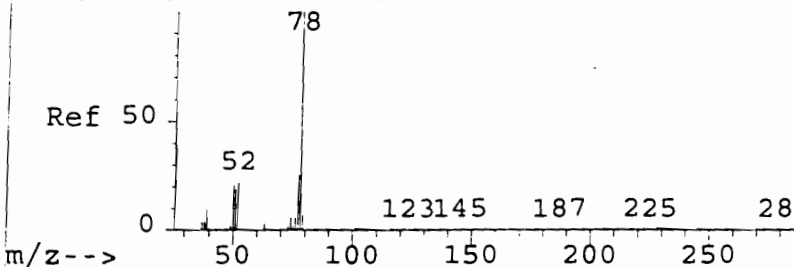
P05513.D CLPW.M Tue Feb 11 08:58:46 1997

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AbundanceScan 1316 (12.308 min): P05322.D (



#25

Benzene

Concen: 1.46 UG/L

RT: 12.09 min Scan# 1279

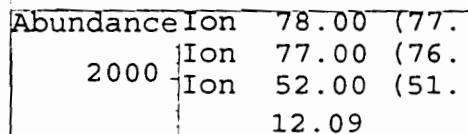
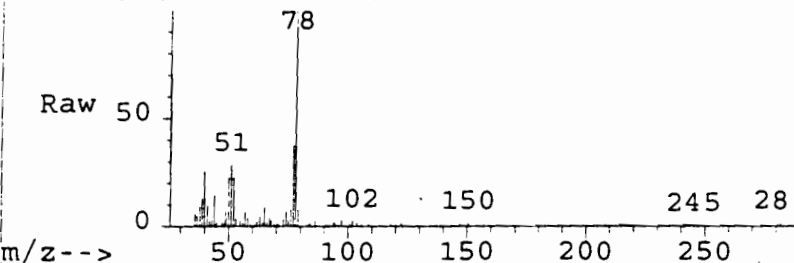
Delta R.T. 0.06 min

Lab File: P05513.D

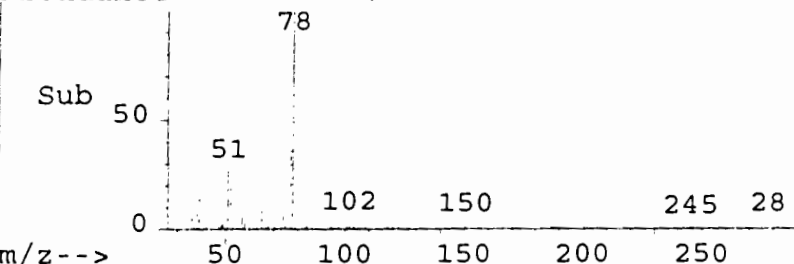
Acq: 28 Jan 97 8:18 pm

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

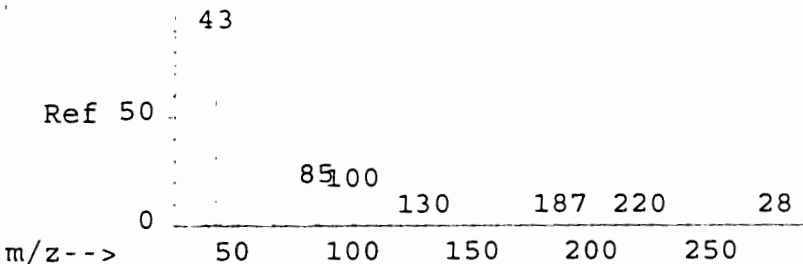
AbundanceScan 1279 (12.090 min): P05513.D (



AbundanceScan 1279 (12.090 min): P05513.D (



AbundanceScan 1672 (14.345 min): P05322.D (



#35

4-Methyl-2-Pentanone

Concen: 8.69 UG/L m

RT: 14.15 min Scan# 1639

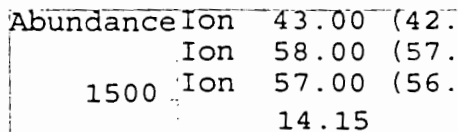
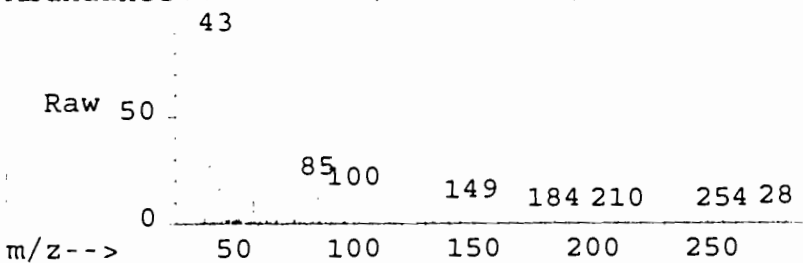
Delta R.T. 0.06 min

Lab File: P05513.D

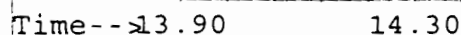
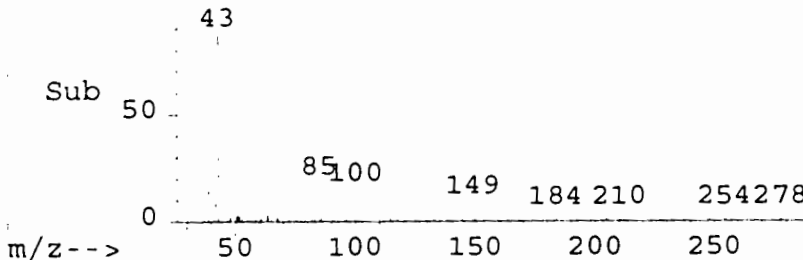
Acq: 28 Jan 97 8:18 pm

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

AbundanceScan 1639 (14.151 min): P05513.D (



AbundanceScan 1639 (14.151 min): P05513.D (



Sample Name: 9702294

Misc. Info: B60230 H5970-3 1/27/97 5.0ML

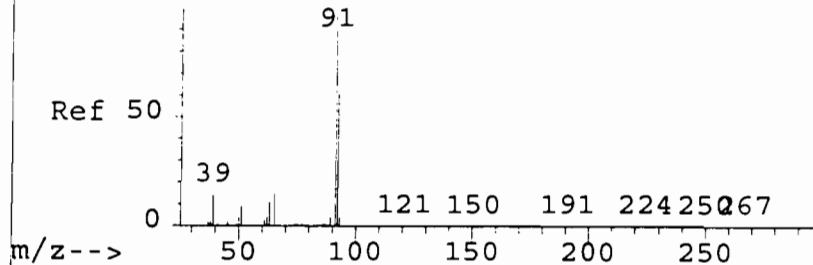
P05513.D CLPW.M Tue Feb 11 08:58:49 1997

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AbundanceScan 1855 (15.393 min): P05322.D (



#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

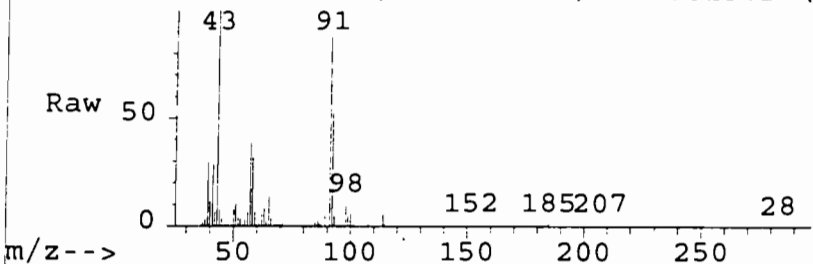
91 100

92 59.9 40.1 80.1

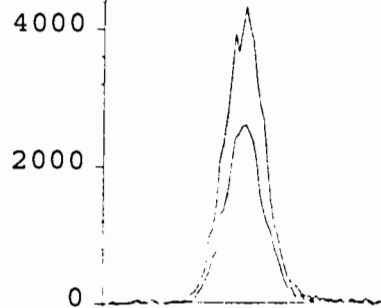
0 0.0 0.0 0.0

0 0.0 0.0 0.0

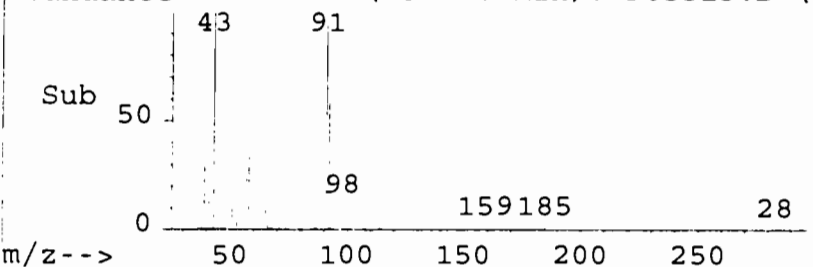
AbundanceScan 1817 (15.170 min): P05513.D (



AbundanceIon 91.00 (90.
Ion 92.00 (91.
15.17

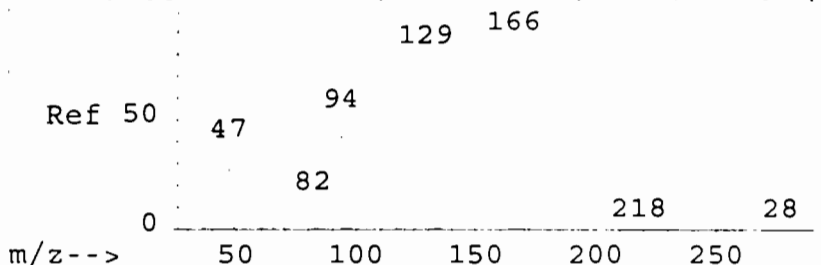


AbundanceScan 1817 (15.170 min): P05513.D (



Time-->14.94 15.32

AbundanceScan 2055 (16.538 min): P05322.D (



#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

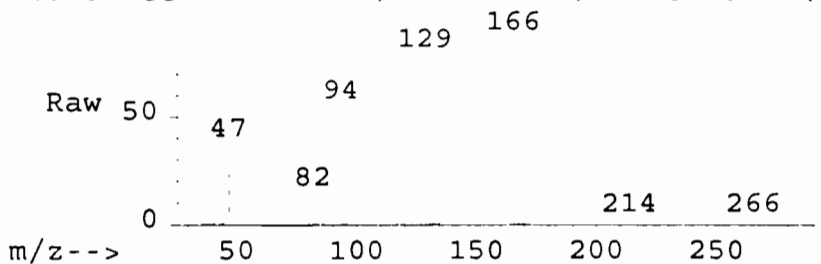
164 100

166 129.4 109.5 149.5

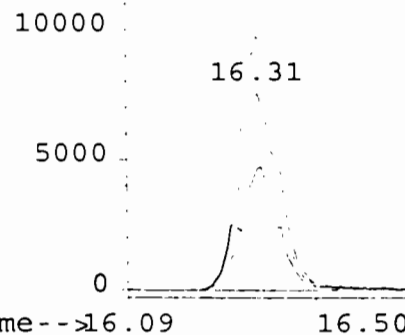
168 61.5 42.4 82.4

0 0.0 0.0 0.0

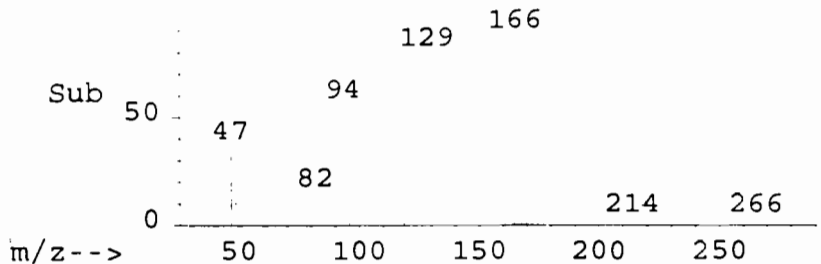
AbundanceScan 2017 (16.314 min): P05513.D (



AbundanceIon 164.00 (163
Ion 166.00 (165
Ion 168.00 (167



AbundanceScan 2017 (16.314 min): P05513.D (



Time-->16.09 16.50

Sample Name: 9702294

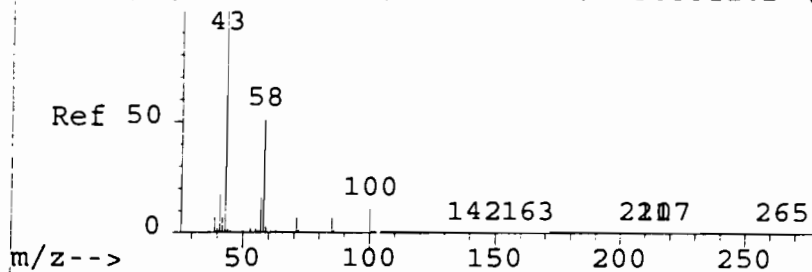
Misc. Info: B60230 H5970-3 1/27/97 5.0ML

P05513.D CLPW.M Tue Feb 11 08:58:52 1997

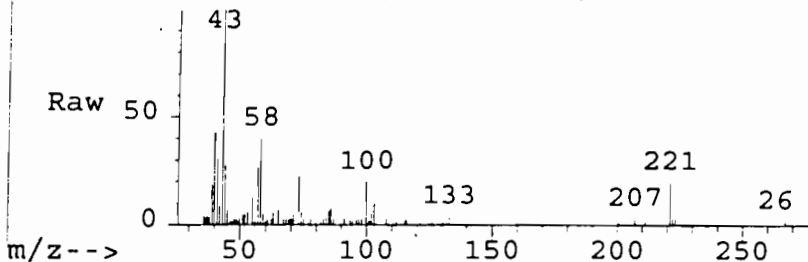
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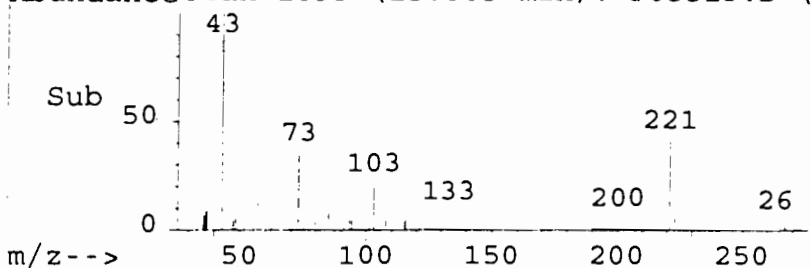
AbundanceScan 1927 (15.805 min): P05322.D (



AbundanceScan 1893 (15.605 min): P05513.D (



AbundanceScan 1893 (15.605 min): P05513.D (



#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

AbundanceIon 43.00 (42.

1500 Ion 58.00 (57.

Ion 100.00 (99.

15.60

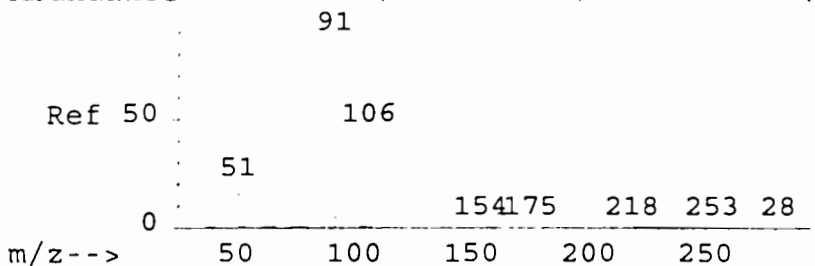
1000

500

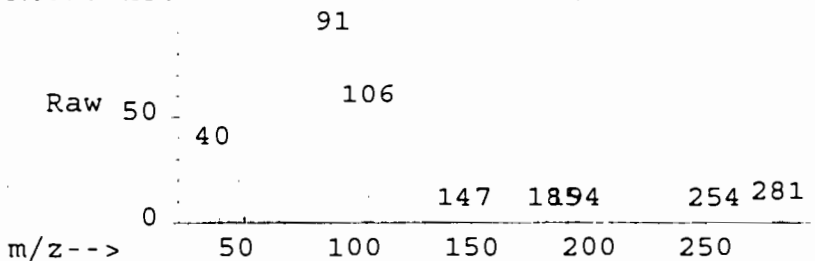
0

Time-->15.42 15.72

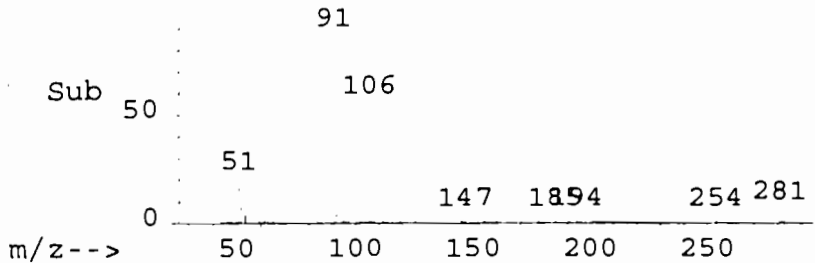
AbundanceScan 2479 (18.964 min): P05322.D (



AbundanceScan 2440 (18.736 min): P05513.D (



AbundanceScan 2440 (18.736 min): P05513.D (



#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: 5057

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

AbundanceIon 106.00 (105

2000 Ion 91.00 (90.

Ion 105.00 (104

1500

1000

500

0

Time-->17.37 19.00

Sample Name: 9702294

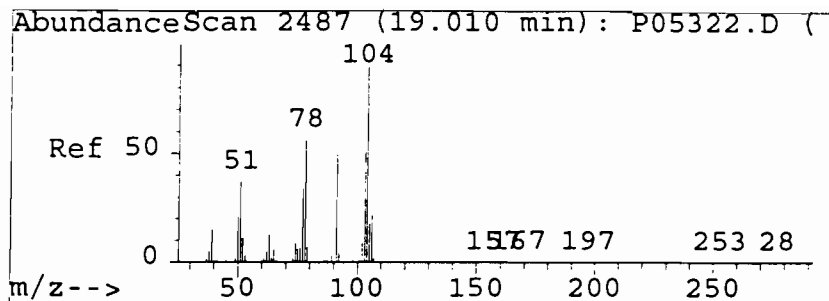
Misc. Info: B60230 H5970-3 1/27/97 5.0ML

P05513.D CLPW.M Tue Feb 11 08:58:55 1997

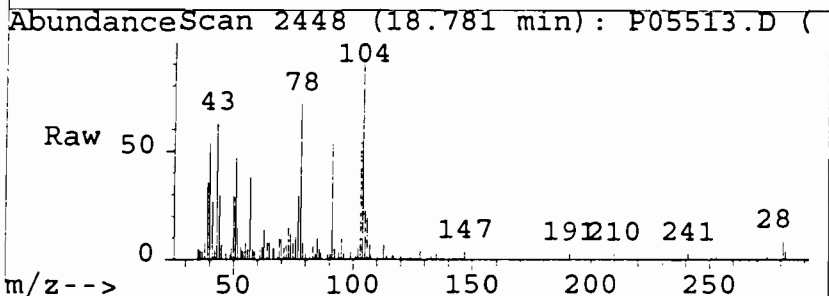
MASSPEC1

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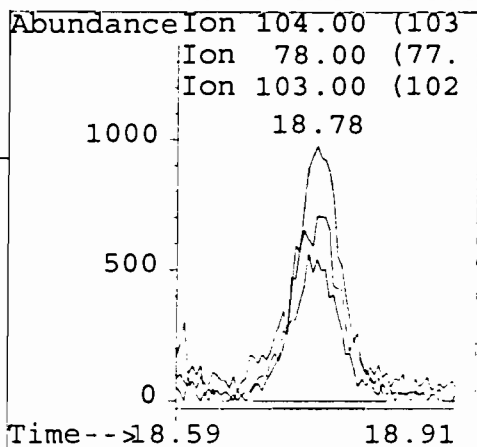
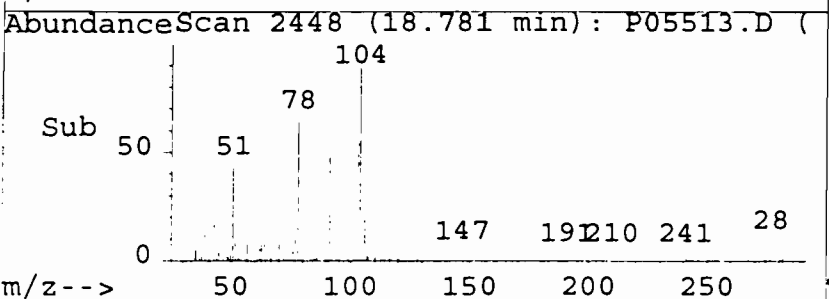
V 0055



#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

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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

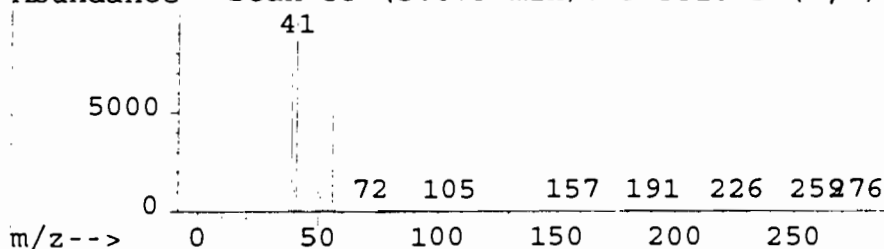
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

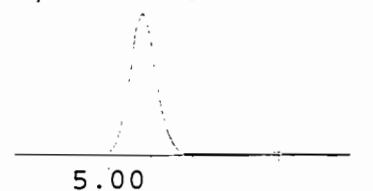
R.T.	Conc	Area	Relative to ISTD	R.T.
5.07	52.43 UG/L	577121	Bromochloromethane	11.01

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

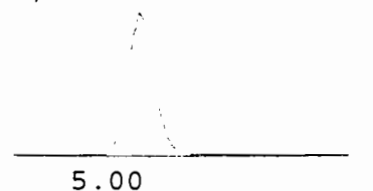
Abundance Scan 53 (5.073 min): P05513.D (-,*)



m/z 41.05 100.00%

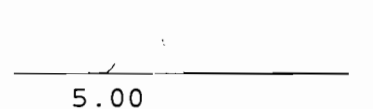
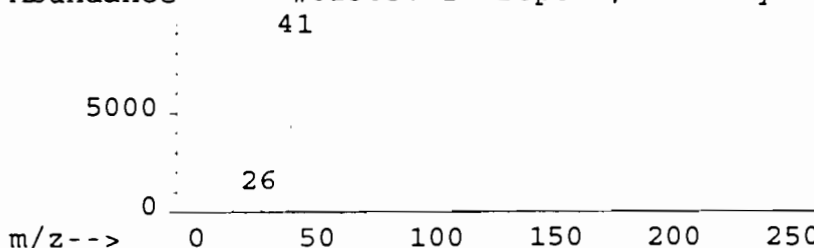


m/z 39.00 70.75%



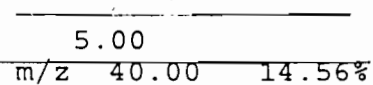
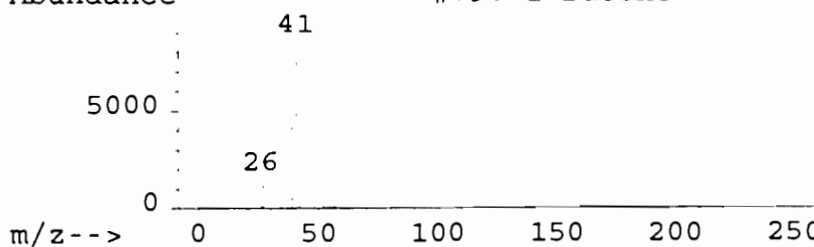
m/z 56.00 50.25%

Abundance #62305: 1-Propene, 2-methyl-



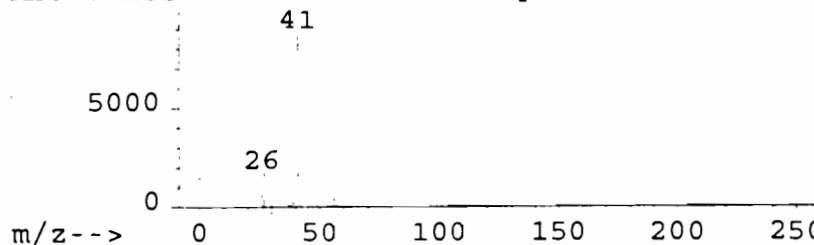
m/z 55.05 21.62%

Abundance #79: 1-Butene



m/z 40.00 14.56%

Abundance #80: Cyclobutane



5.00

0057

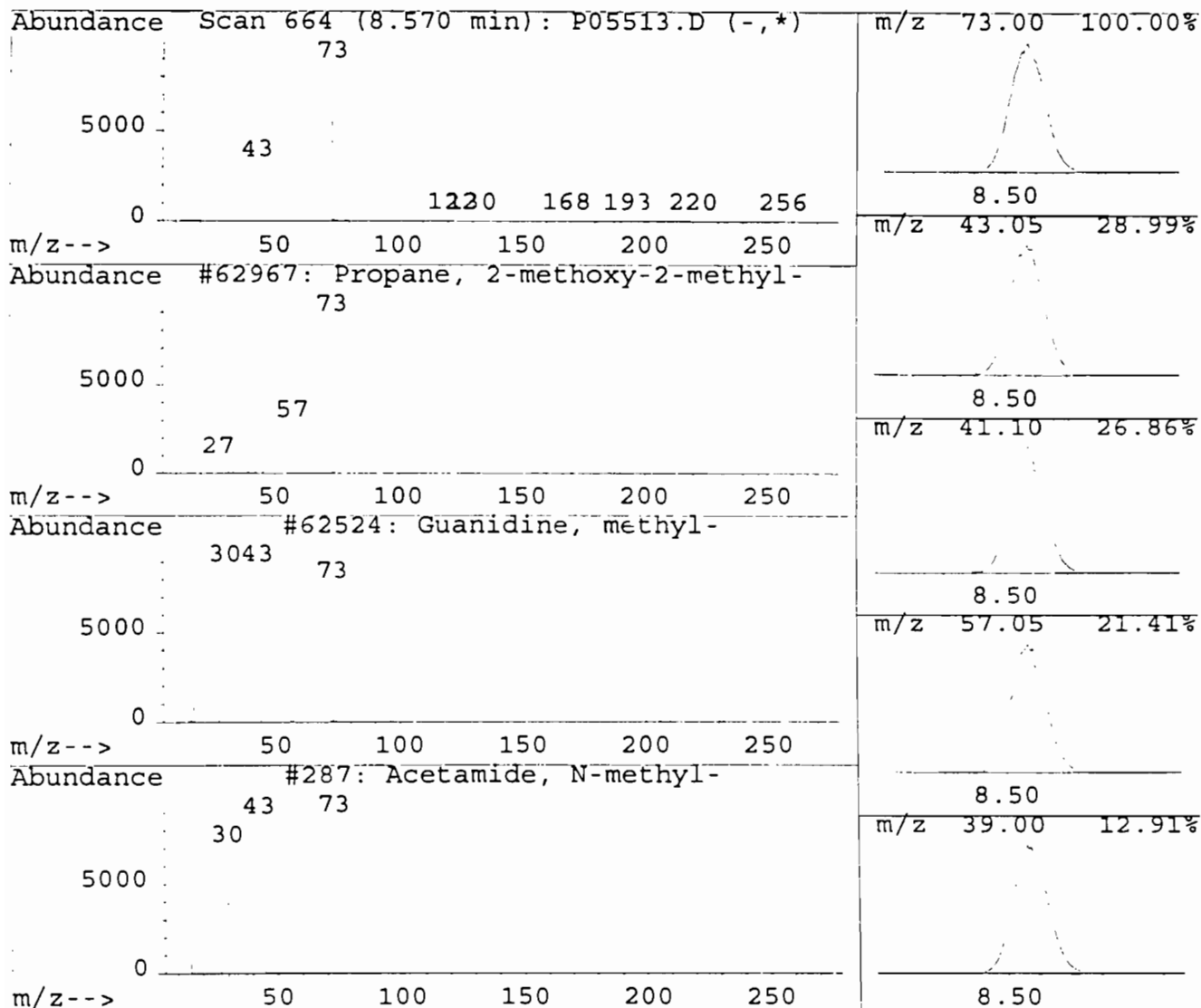
Library Search Compound Report

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



V 0055

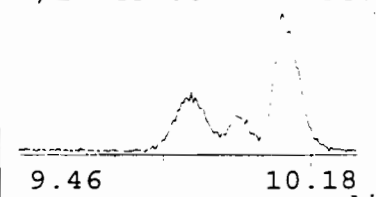
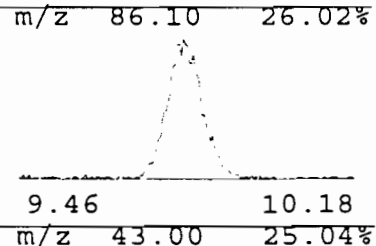
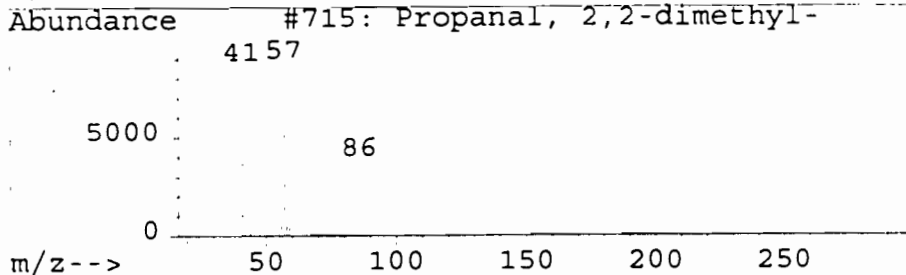
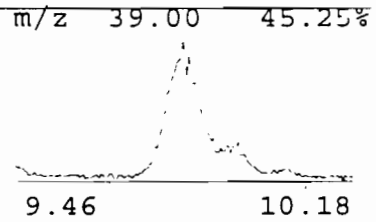
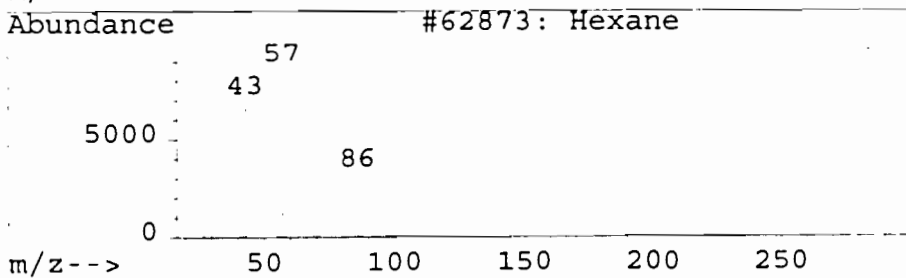
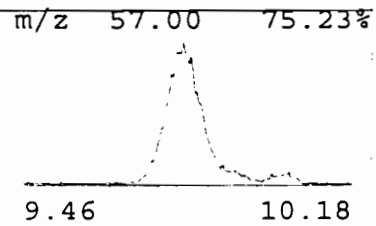
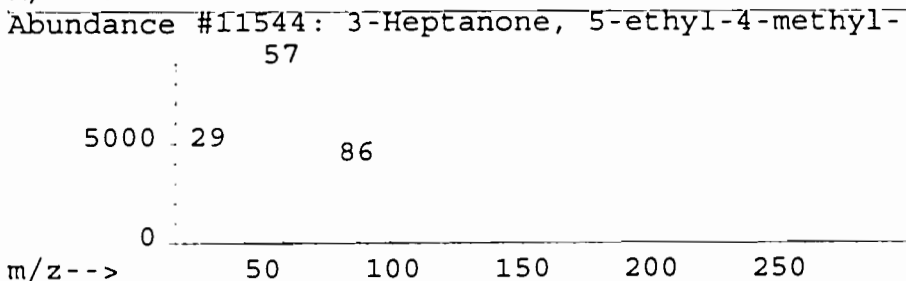
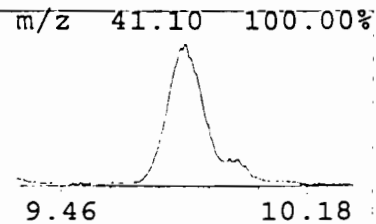
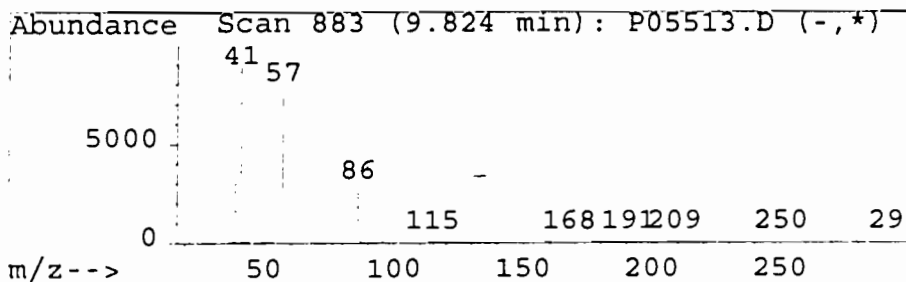
Library Search Compound Report

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.		
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



V 0059

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

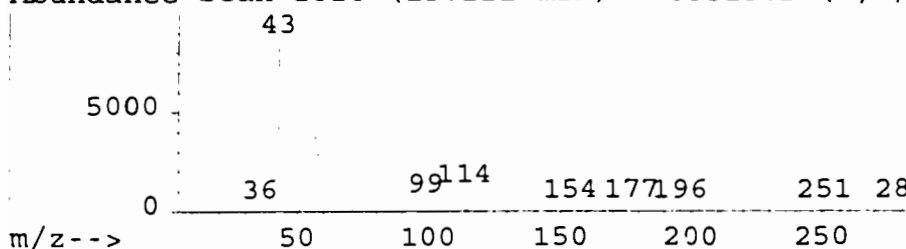
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

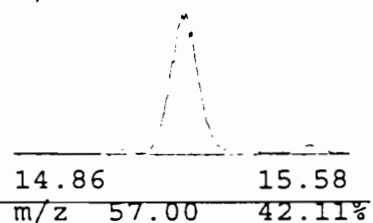
R.T.	Conc	Area	Relative to ISTD	R.T.
15.22	17.28 UG/L	303642	Chlorobenzene-d5	17.69

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

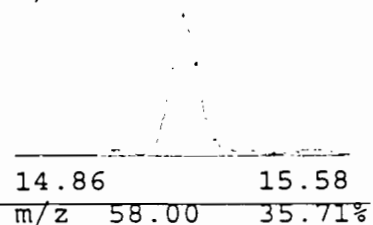
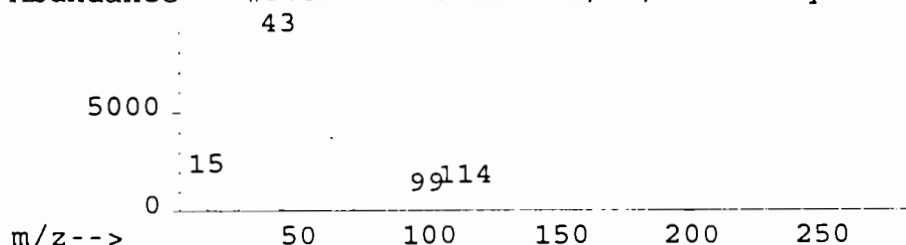
Abundance Scan 1826 (15.221 min): P05513.D (-,*)



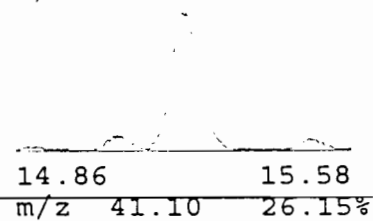
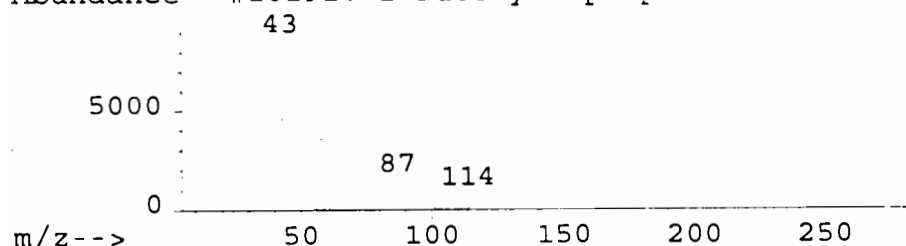
m/z 43.00 100.00%



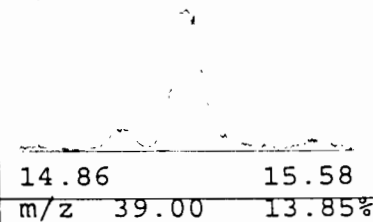
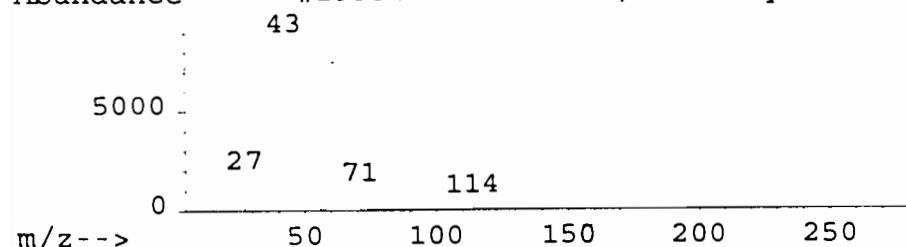
Abundance #3052: 2-Pentanone, 4,4-dimethyl-



Abundance #16191: 1-Butoxy-2-propanol acetate



Abundance #2999: 2-Hexanone, 5-methyl-



V 0000

Library Search Compound Report

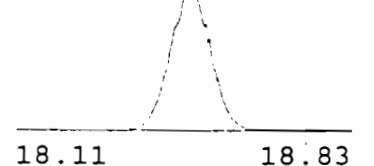
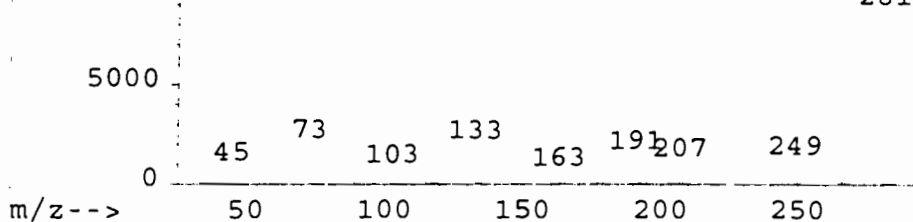
Data File : C:\HPCHEM\1\DATA\P05513.D
Acq On : 28 Jan 97 20:18
Sample : 9702294
Misc : B60230 H5970-3 1/27/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

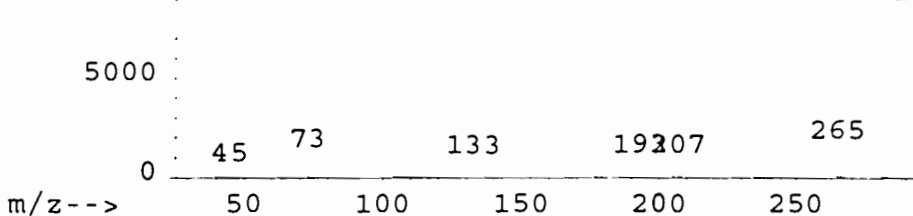
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.		
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

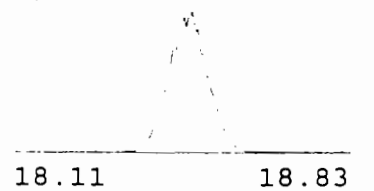
Abundance Scan 2393 (18.467 min): P05513.D (-,*)
m/z 280.90 100.00%



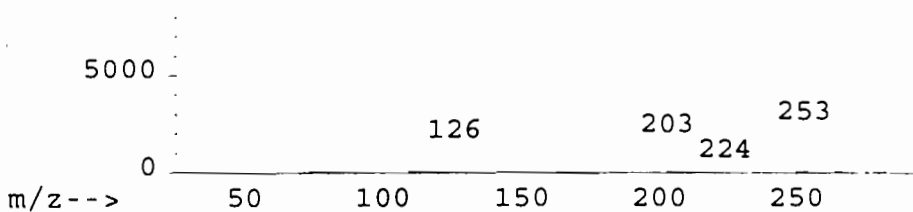
Abundance #72646: Cyclotetrasiloxane, octamethyl-
m/z 281



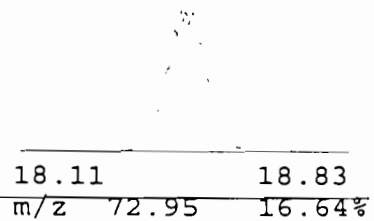
m/z 281.95 28.18%



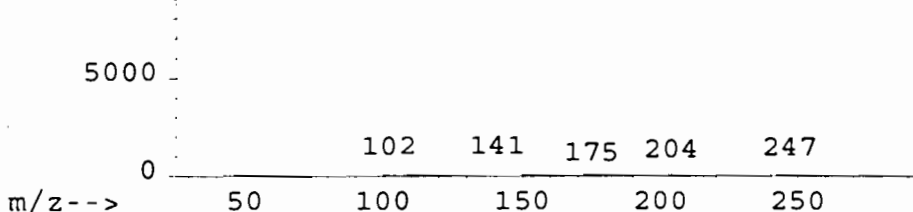
Abundance#39643: Benzene, 1-phenyl-4-(2-cyano-2-p
m/z 281



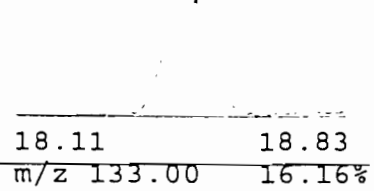
m/z 282.95 17.52%



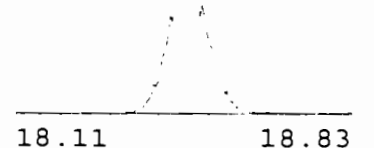
Abundance#39756: 2-Oxo-4-phenyl-6-(4-chlorophenyl
m/z 281



m/z 72.95 16.64%



m/z 133.00 16.16%



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)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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.

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

Number TICs found: 0

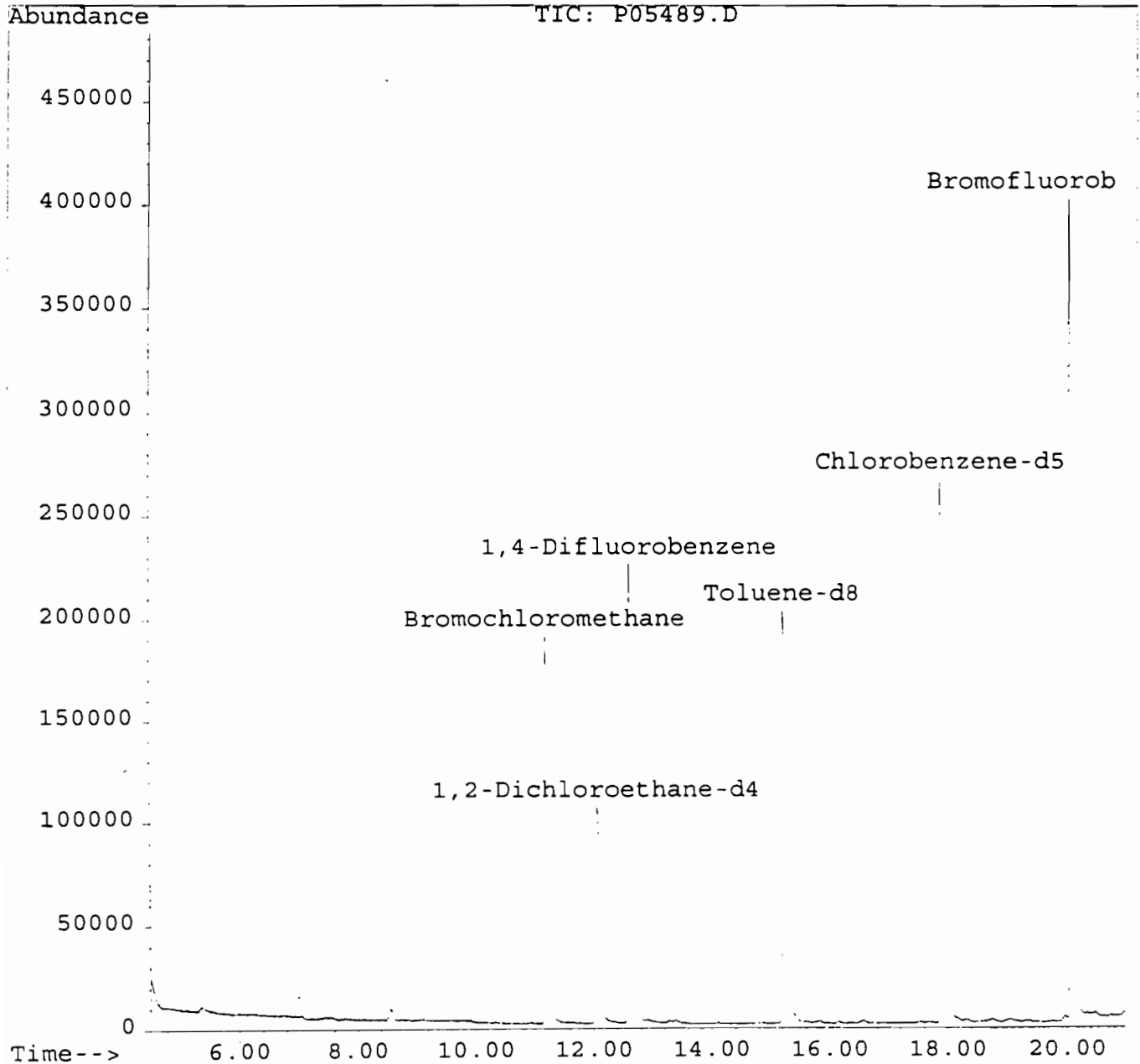
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

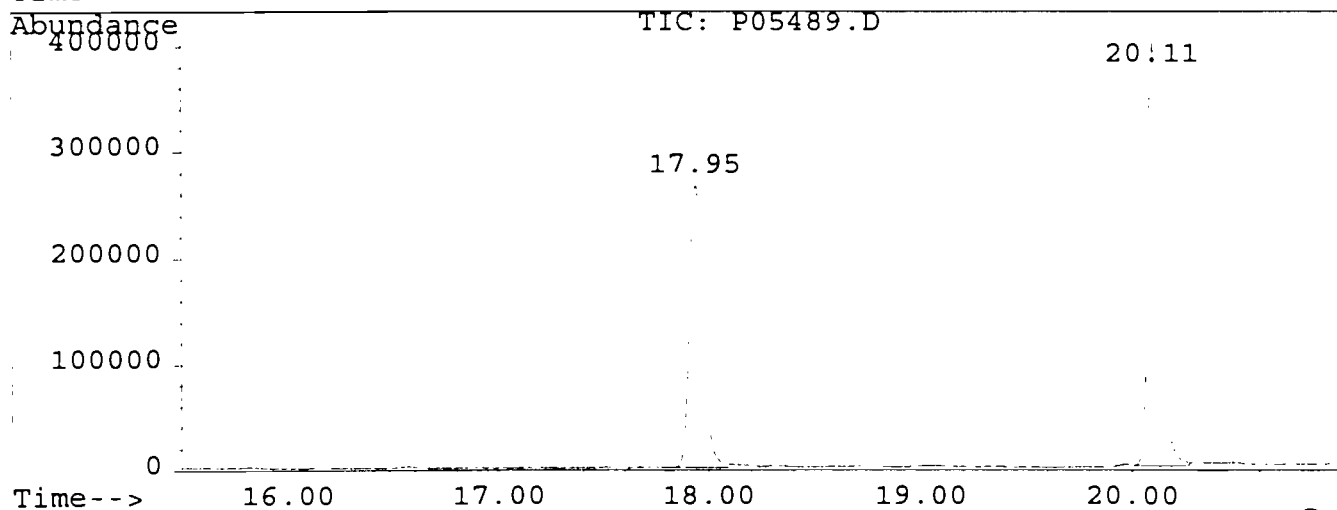
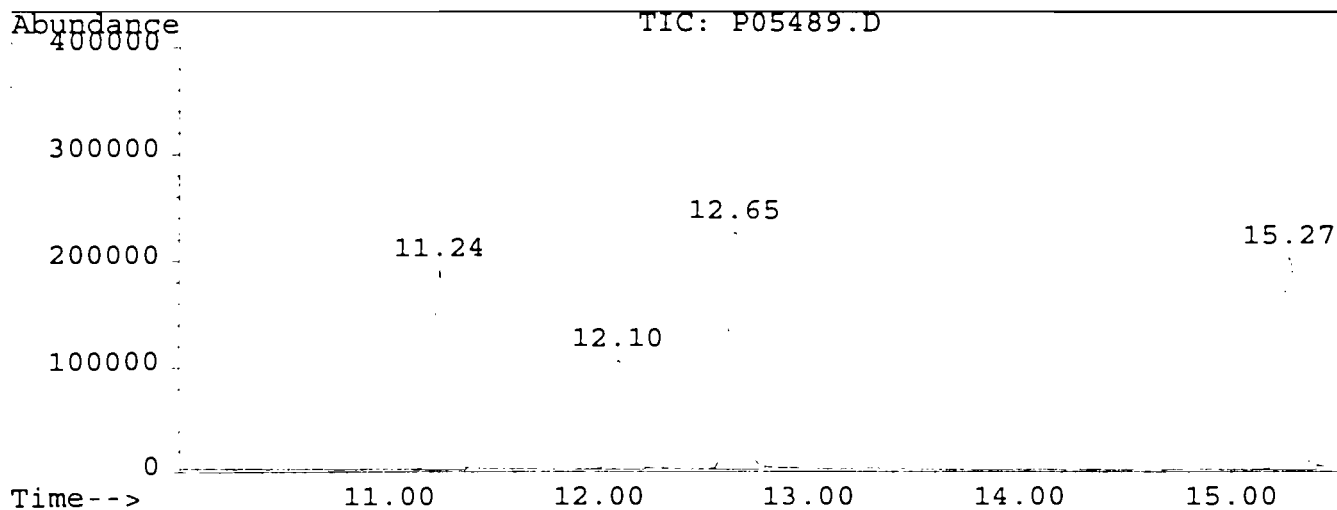
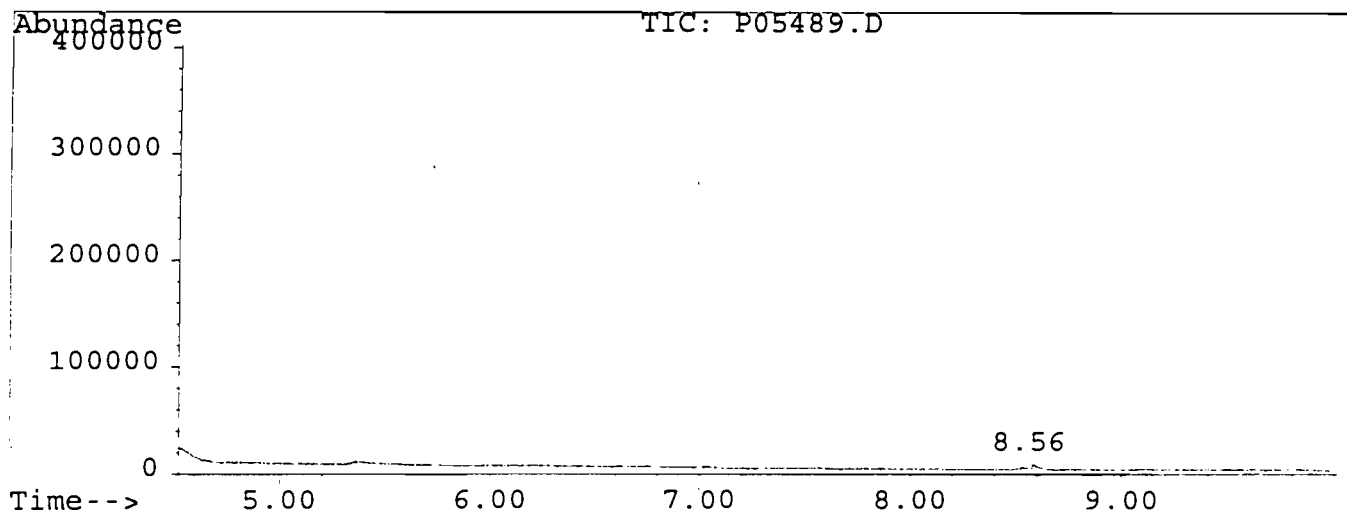
Data File : C:\HPCHEM\1\DATA\P05489.D
Acq On : 27 Jan 97 6:17 pm
Sample : 9702300
Misc : B60231 H5970-3 1/27/97 5.0G
Quant Time: Feb 11 10:50 1997

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



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	110517	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

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

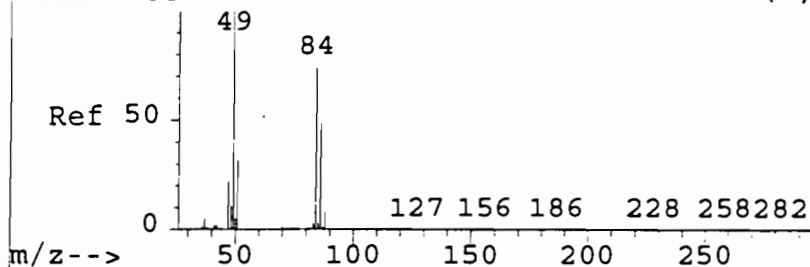
Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

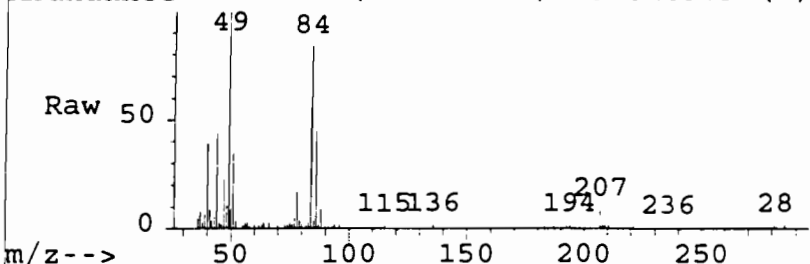
No Library Search Compounds Detected

V 0097

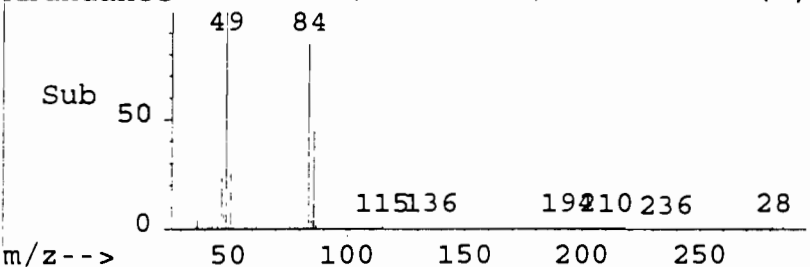
AbundanceScan 705 (8.555 min): P05327.D (-,



AbundanceScan 707 (8.570 min): P05489.D (*)



AbundanceScan 707 (8.570 min): P05489.D (-,



#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

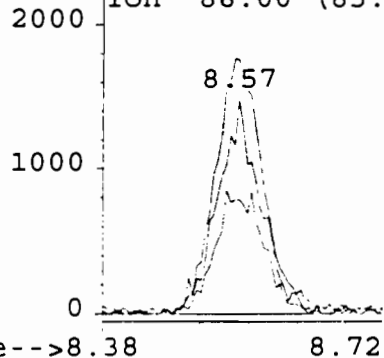
86 53.5 48.1 88.1

0 0.0 0.0 0.0

AbundanceIon 84.00 (83.

Ion 49.00 (48.

Ion 86.00 (85.



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 0098

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)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

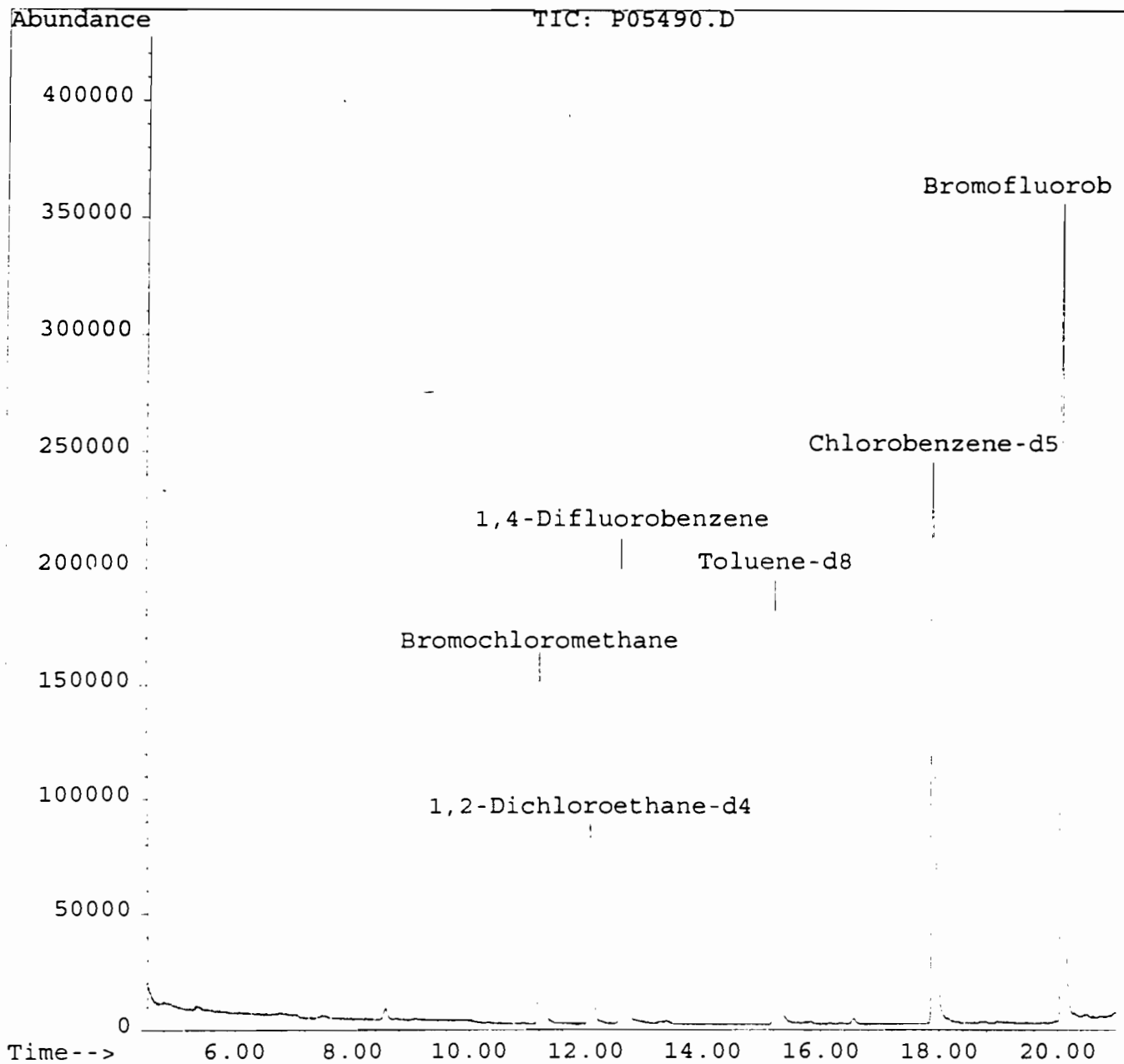
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

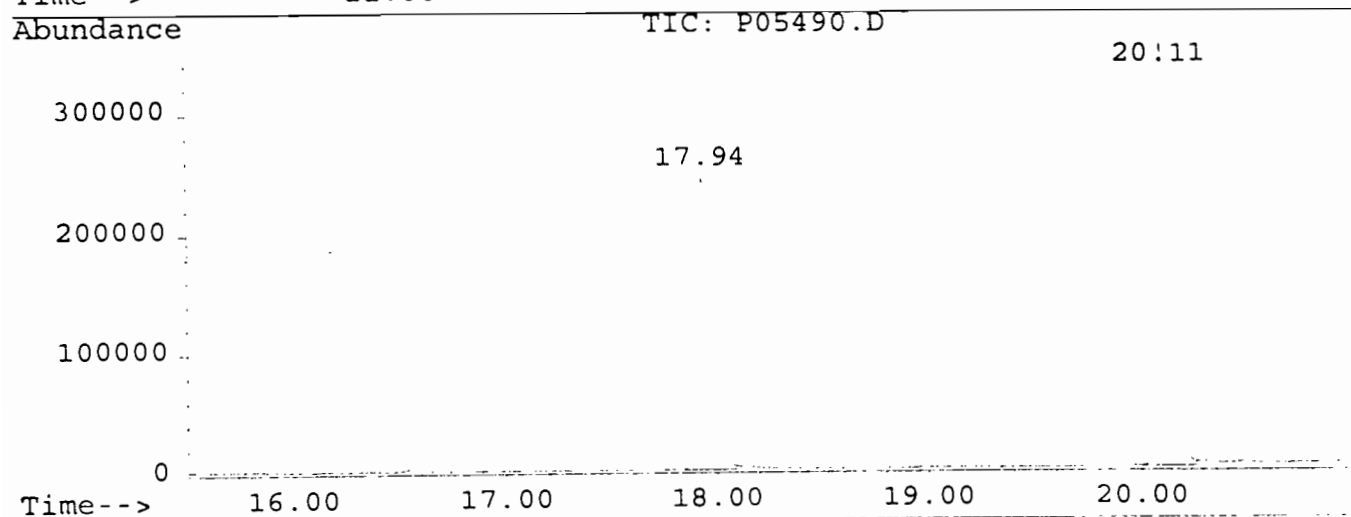
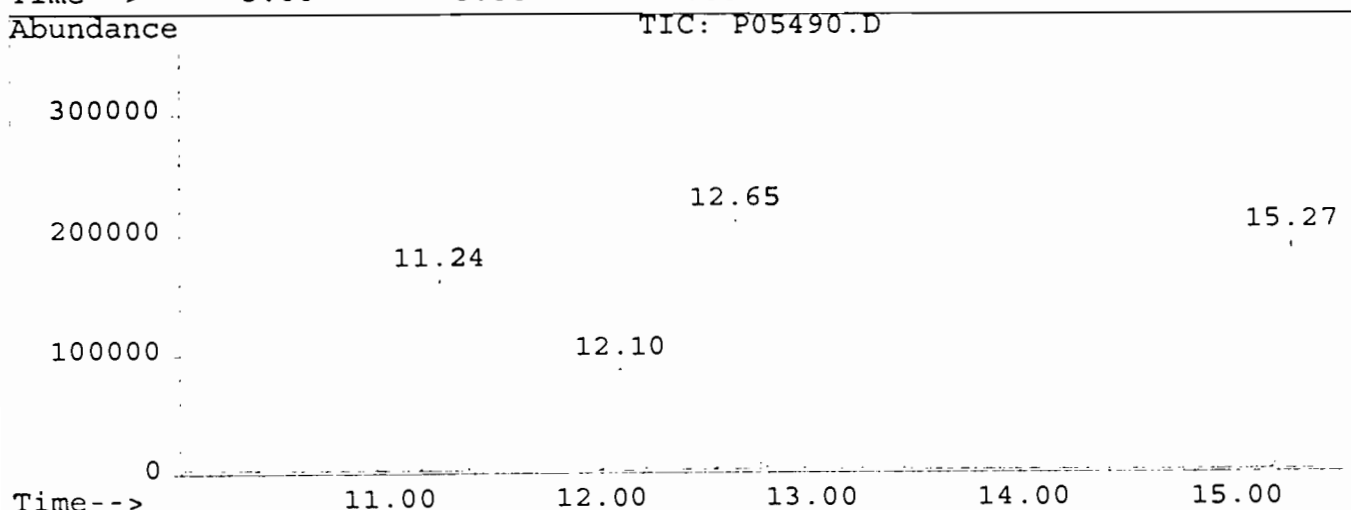
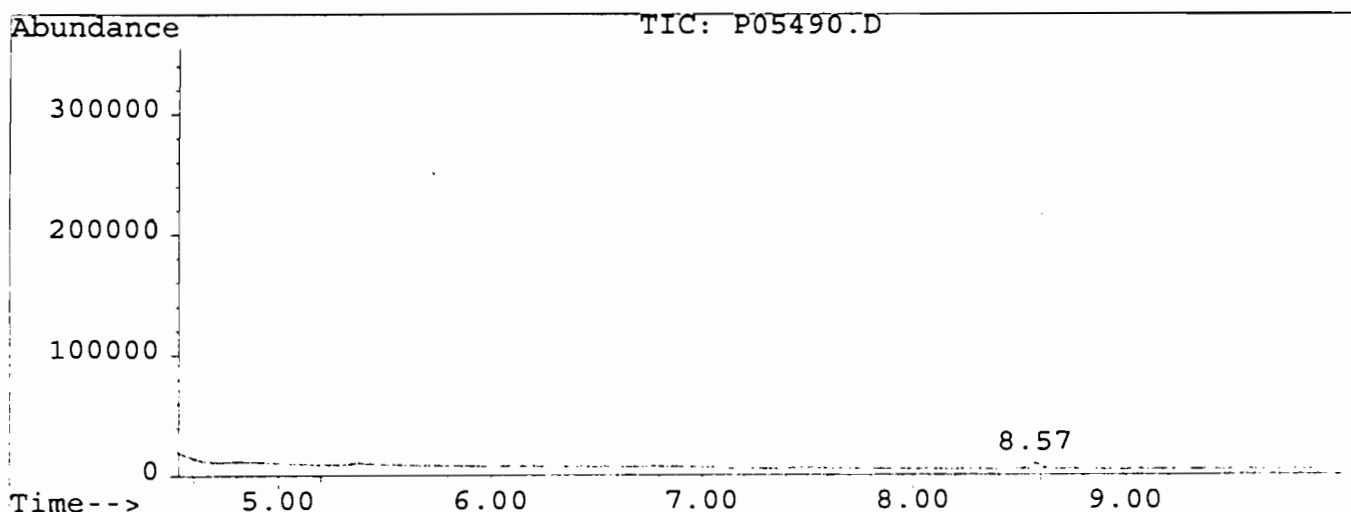
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 Acq On : 27 Jan 97 6:47 pm
 Sample : 9702301
 Misc : B60232 H5970-3 1/27/97 5.0G
 Quant Time: Feb 11 10:51 1997

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



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

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

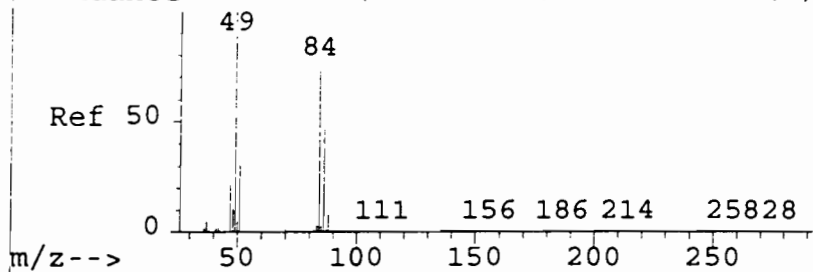
Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

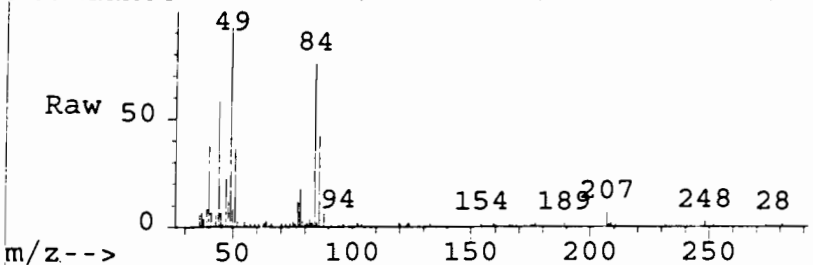
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V 010.1

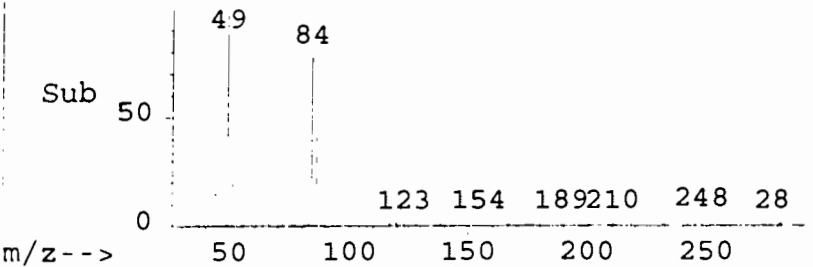
AbundanceScan 705 (8.555 min): P05327.D (-,



AbundanceScan 706 (8.566 min): P05490.D (*,



AbundanceScan 706 (8.566 min): P05490.D (-,



#9

Methylene Chloride

Concen: 1.63 UG/L

RT: 8.57 min Scan# 706

Delta R.T. -0.03 min

Lab File: P05490.D

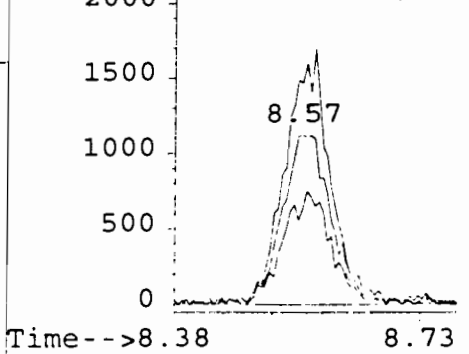
Acq: 27 Jan 97 6:47 pm

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

AbundanceIon 84.00 (83.

Ion 49.00 (48.

Ion 86.00 (85.



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

V 0105

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)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

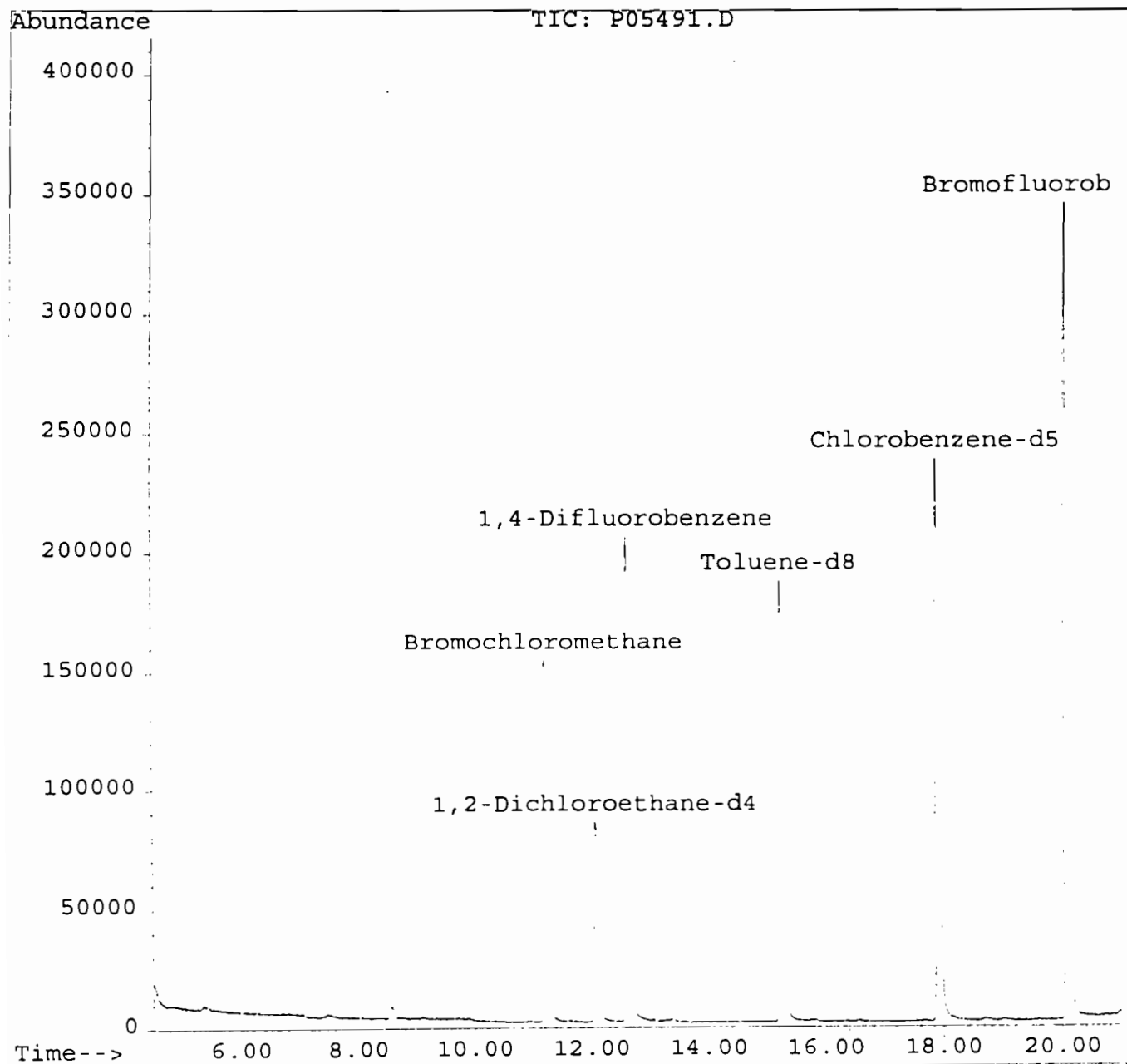
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

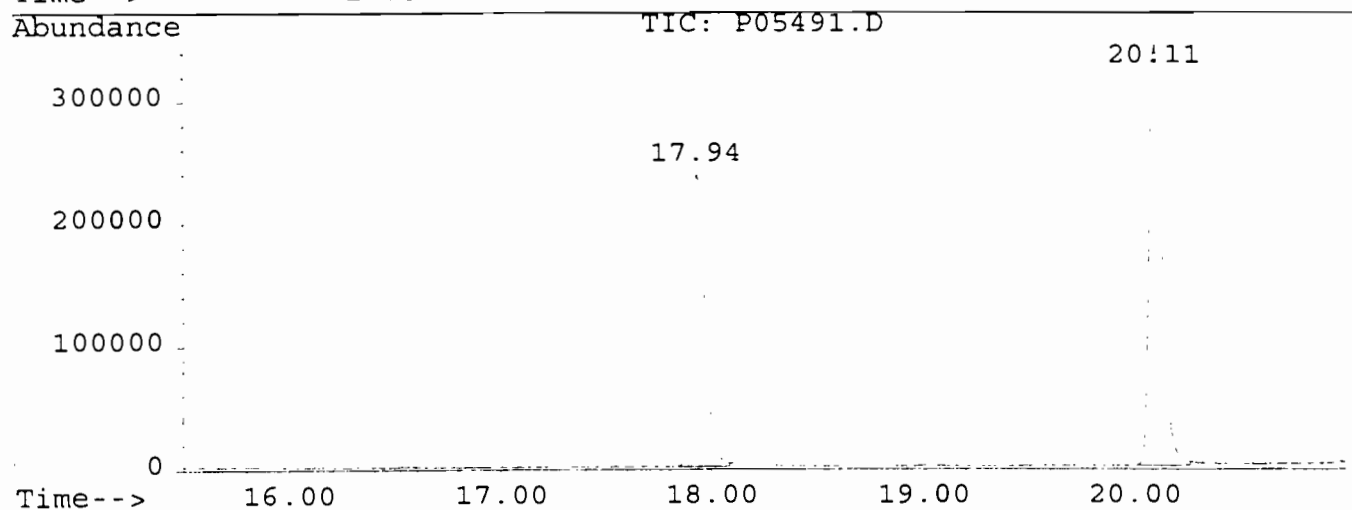
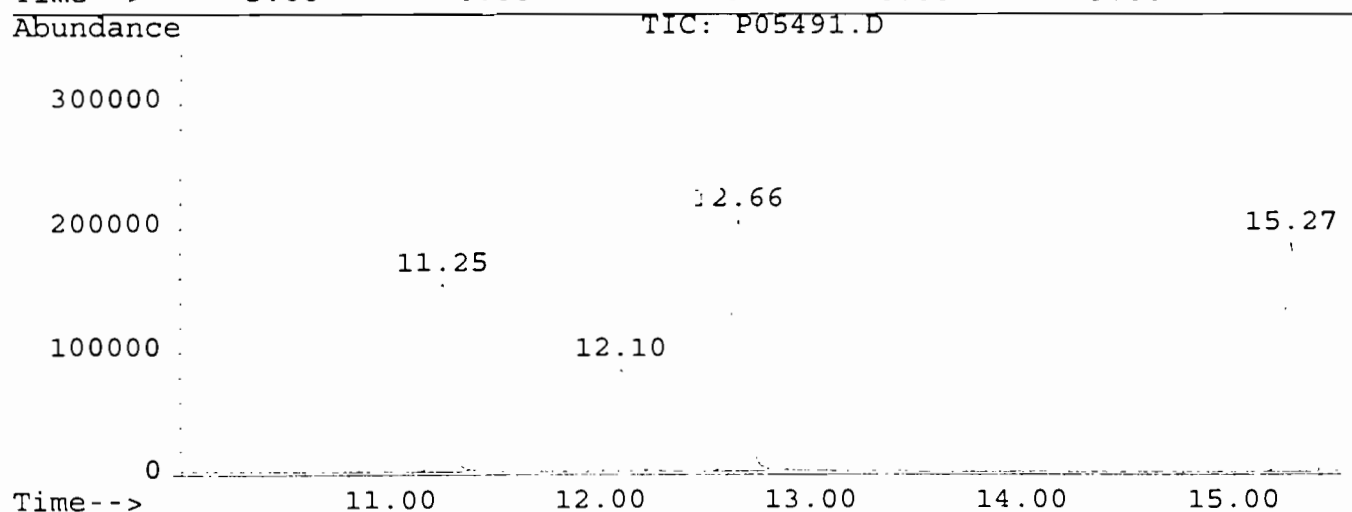
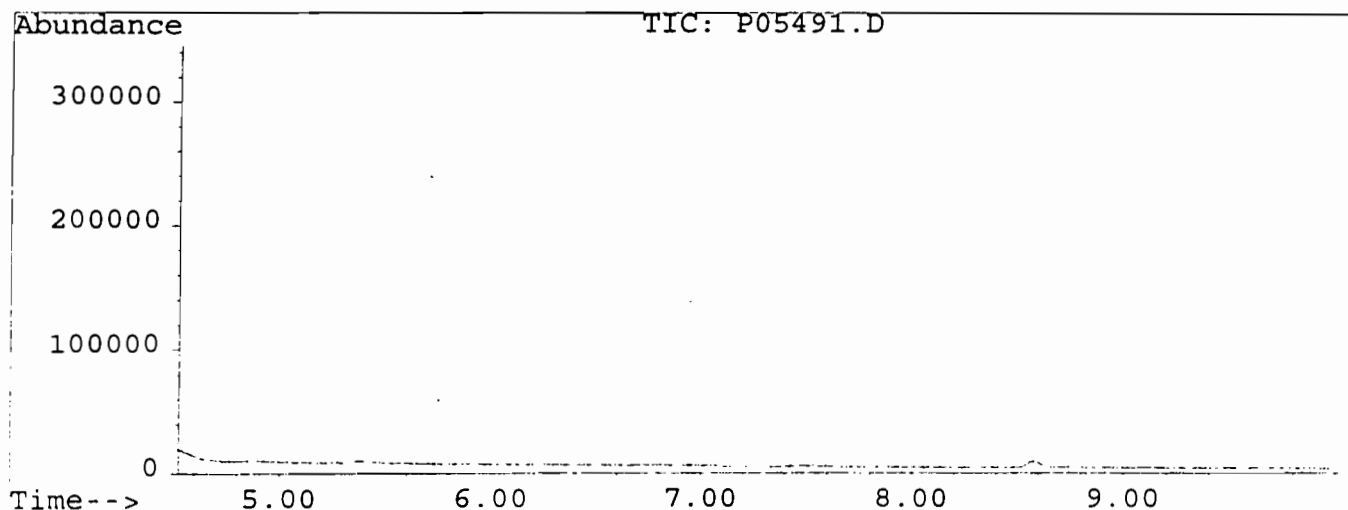
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 Acq On : 27 Jan 97 7:18 pm
 Sample : 9702302
 Misc : B60233 H5970-3 1/27/97 5.0G
 Quant Time: Jan 27 19:43 1997

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



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
 Acq On : 27 Jan 97 19:18
 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 : 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

P05491.D CLPS.M Tue Feb 11 11:01:21 1997 MASSPEC1

Page 1

V 0110

Library Search Compound Report

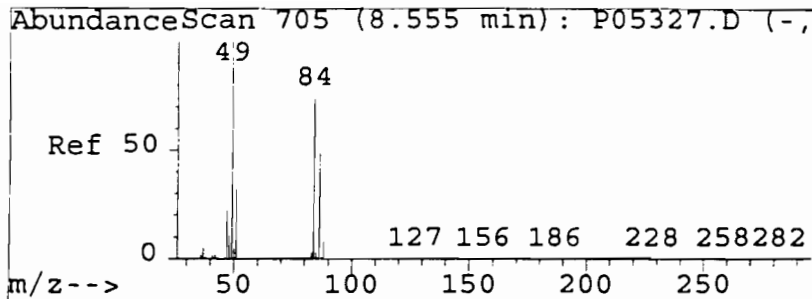
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Acq On : 27 Jan 97 19:18
Sample : 9702302
Misc : B60233 H5970-3 1/27/97 5.0G

Vial: 8
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

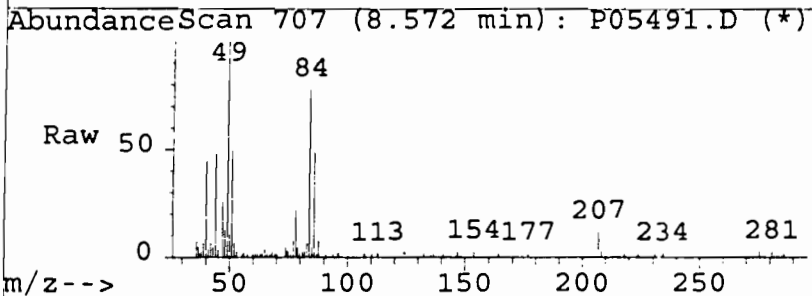
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Library : NBS75K.L

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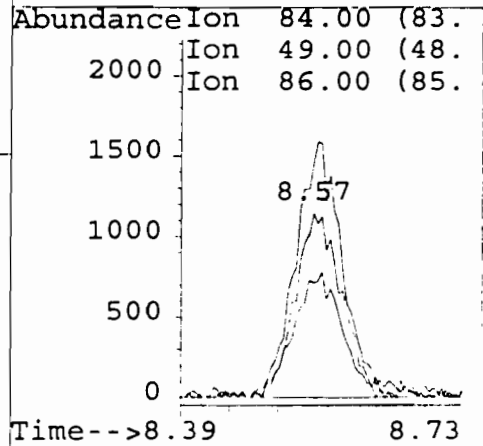
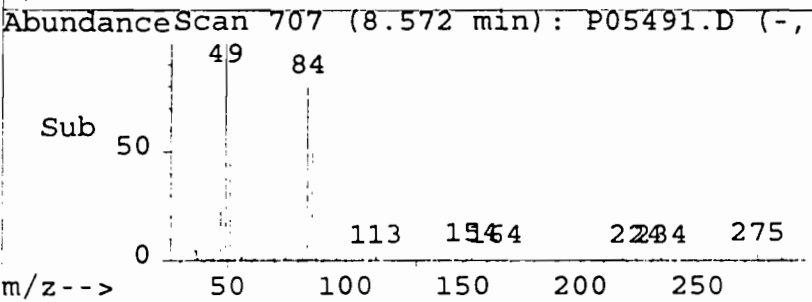
V 0111



#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



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

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: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

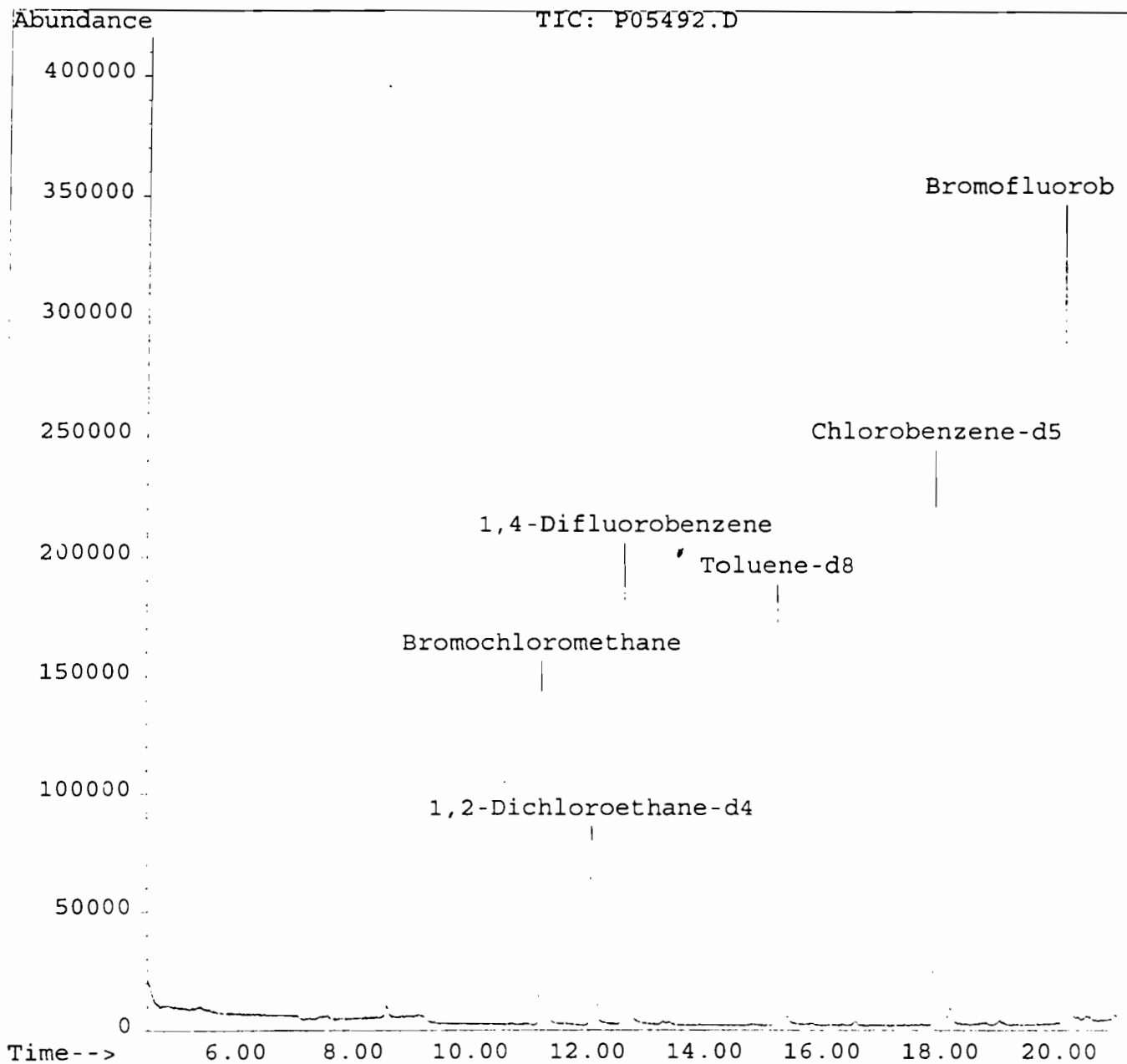
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

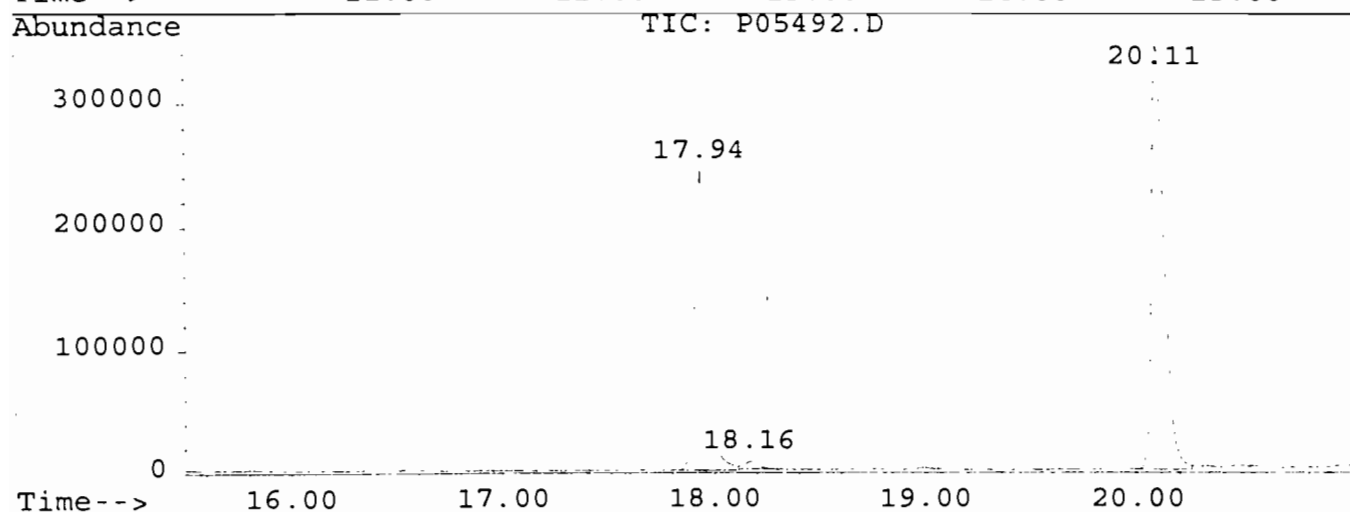
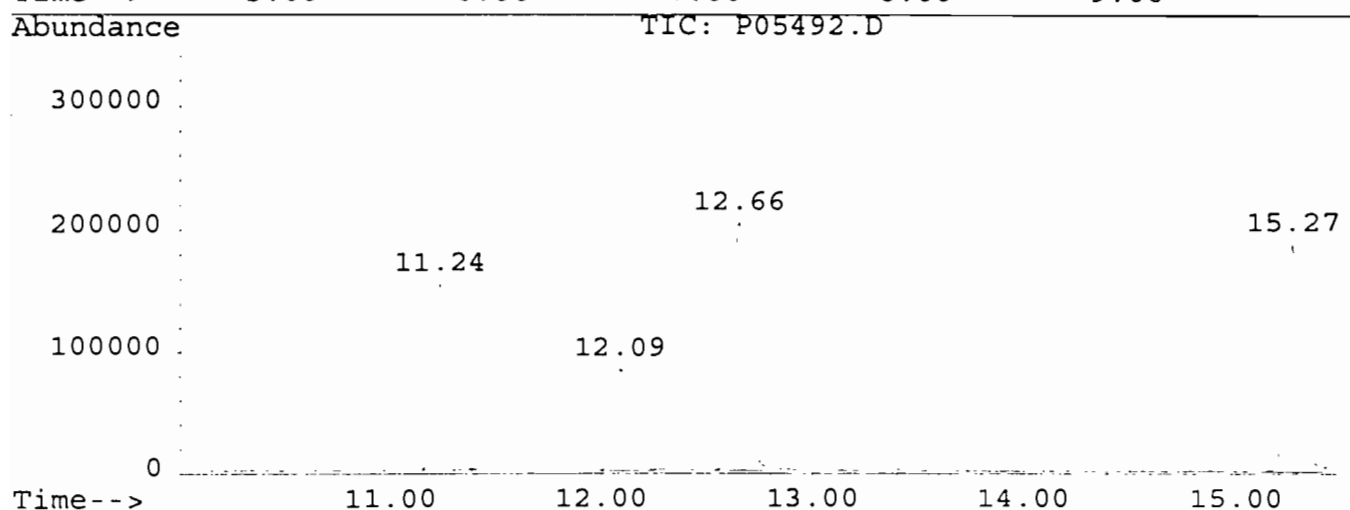
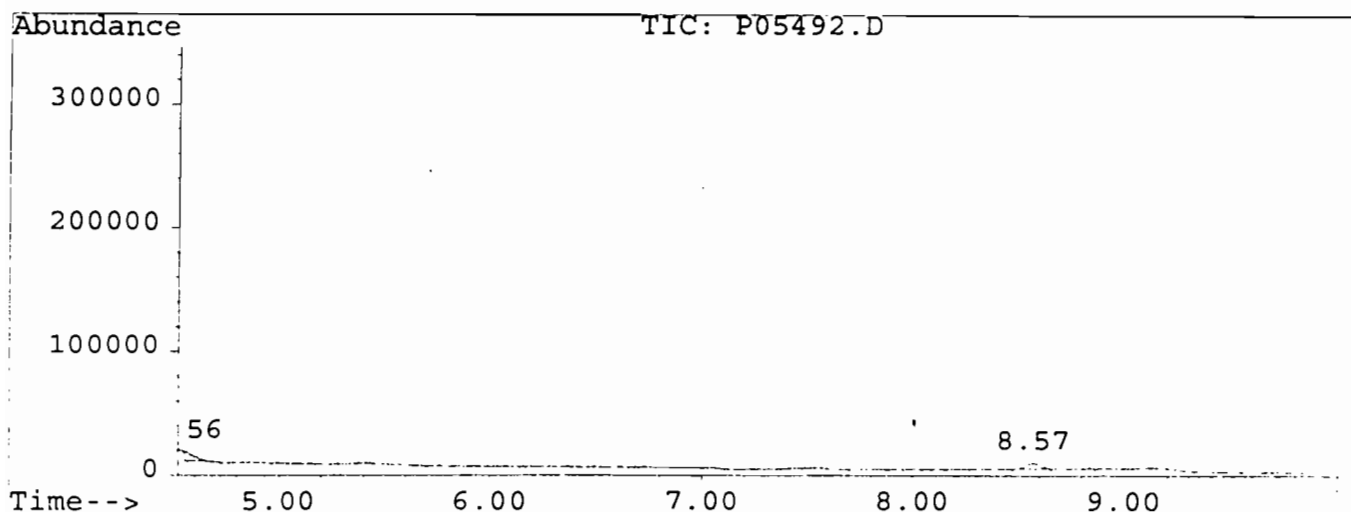
Data File : C:\HPCHEM\1\DATA\P05492.D
 Acq On : 27 Jan 97 7:49 pm
 Sample : 9702303
 Misc : B60234 H5970-3 1/27/97 5.0G
 Quant Time: Feb 11 10:51 1997

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



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
						%Recovery
System Monitoring Compounds						
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%
						Qvalue
Target Compounds						
9) Methylene Chloride	8.57	84	4901	1.58	UG/L	95

Library Search Compound Report

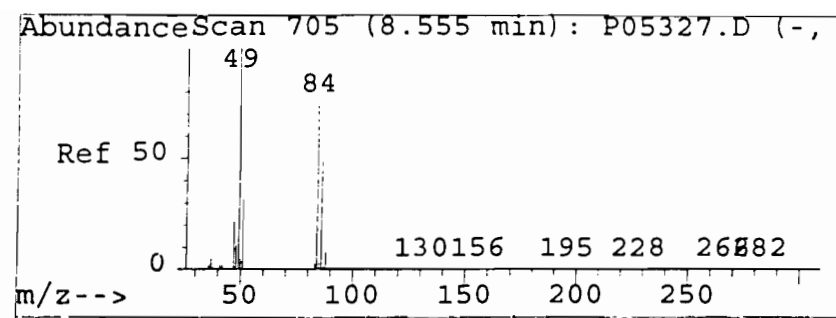
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Acq On : 27 Jan 97 19:49
Sample : 9702303
Misc : B60234 H5970-3 1/27/97 5.0G

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

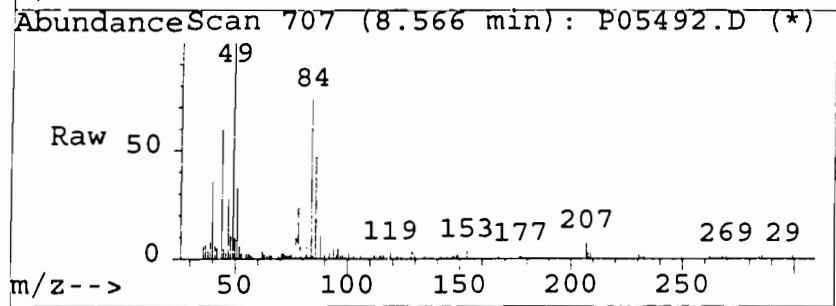
Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0118

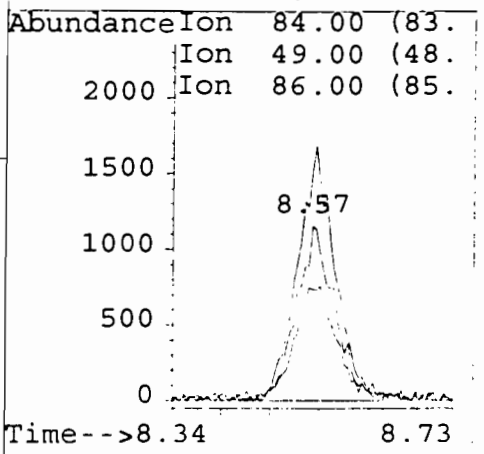
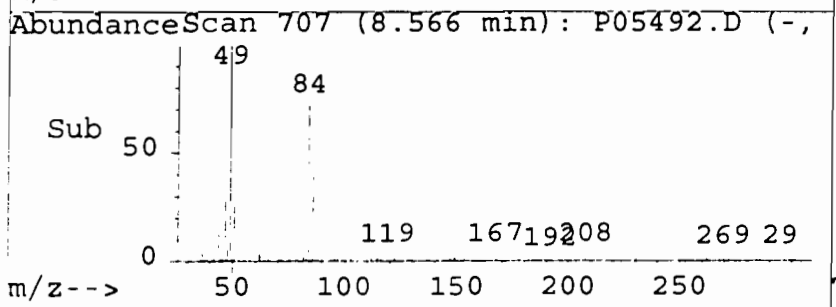


#9
 Methylene Chloride
 Concen: 1.58 UG/L
 RT: 8.57 min Scan# 707
 Delta R.T. -0.03 min
 Lab File: P05492.D
 Acq: 27 Jan 97 7:49 pm



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



H2M LABS, INC.

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	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.

FORM VI VOA

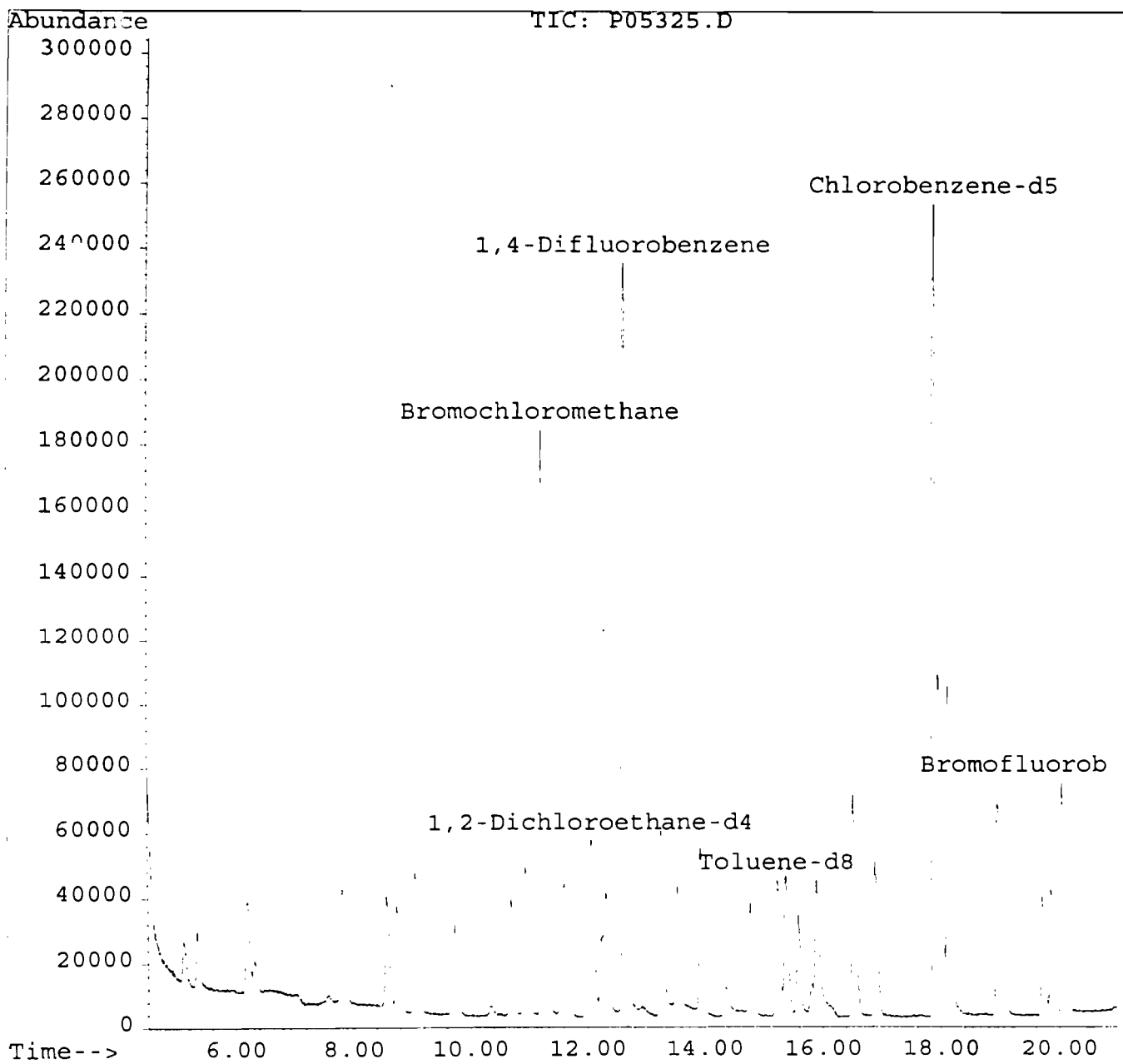
3/90
V 0121

Quantitation Report

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



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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

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

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

P05325.D CLPS.M

Tue Feb 11 10:58:42 1997

MASSPEC1

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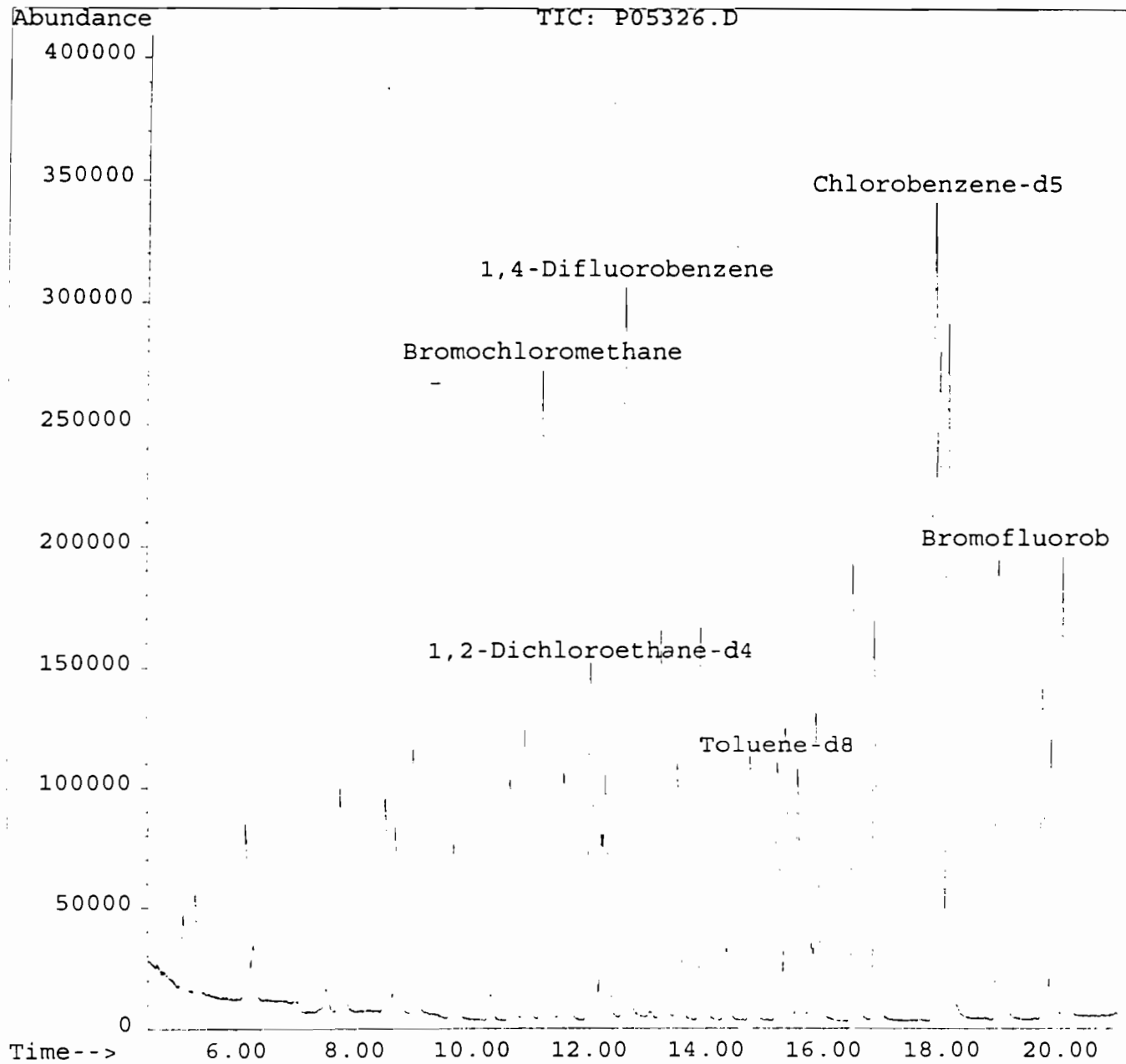
V 0124

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



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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

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

P05326.D CLPS.M Tue Feb 11 10:58:59 1997 MASSPEC1

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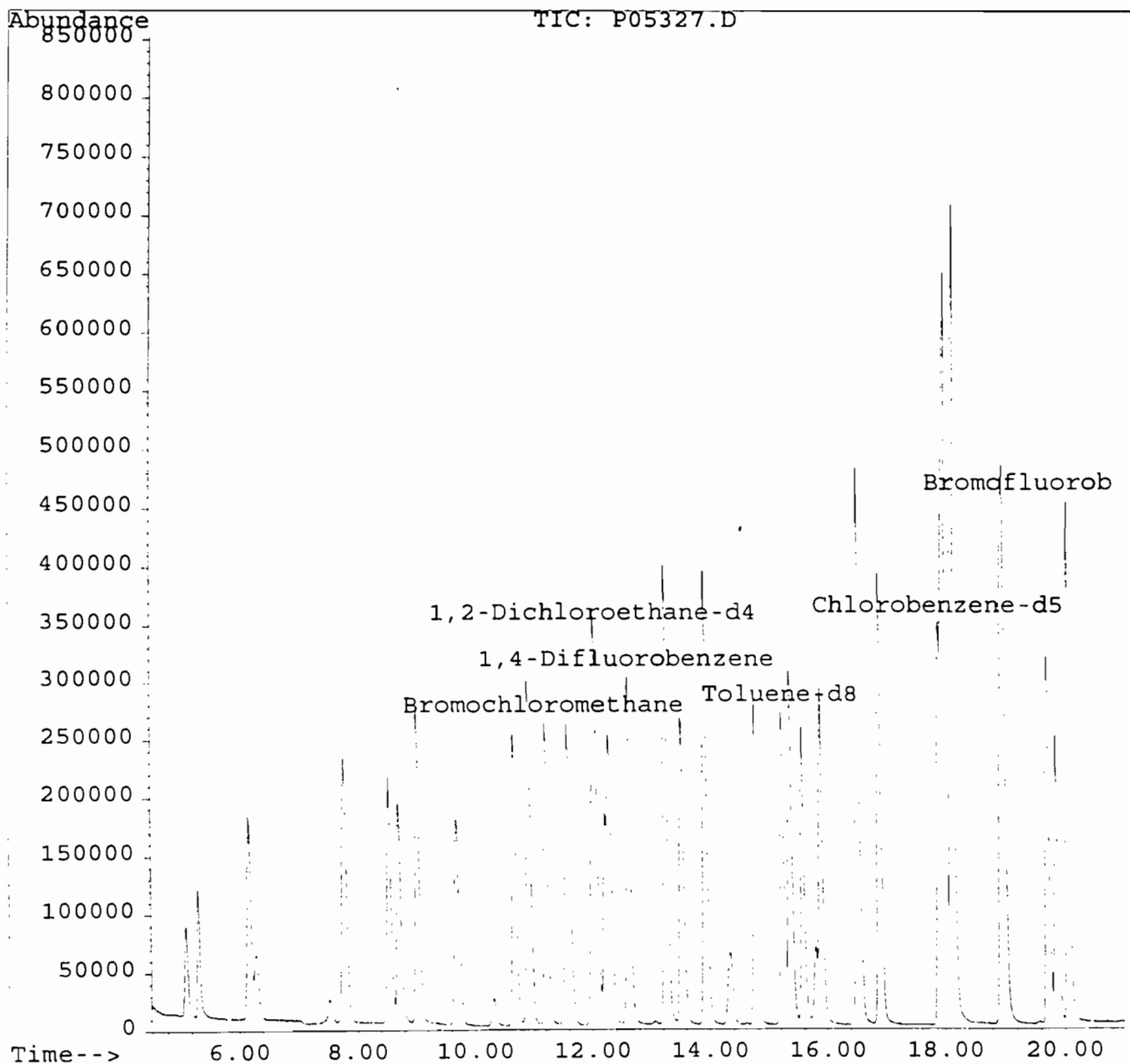
V 0127

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



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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

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

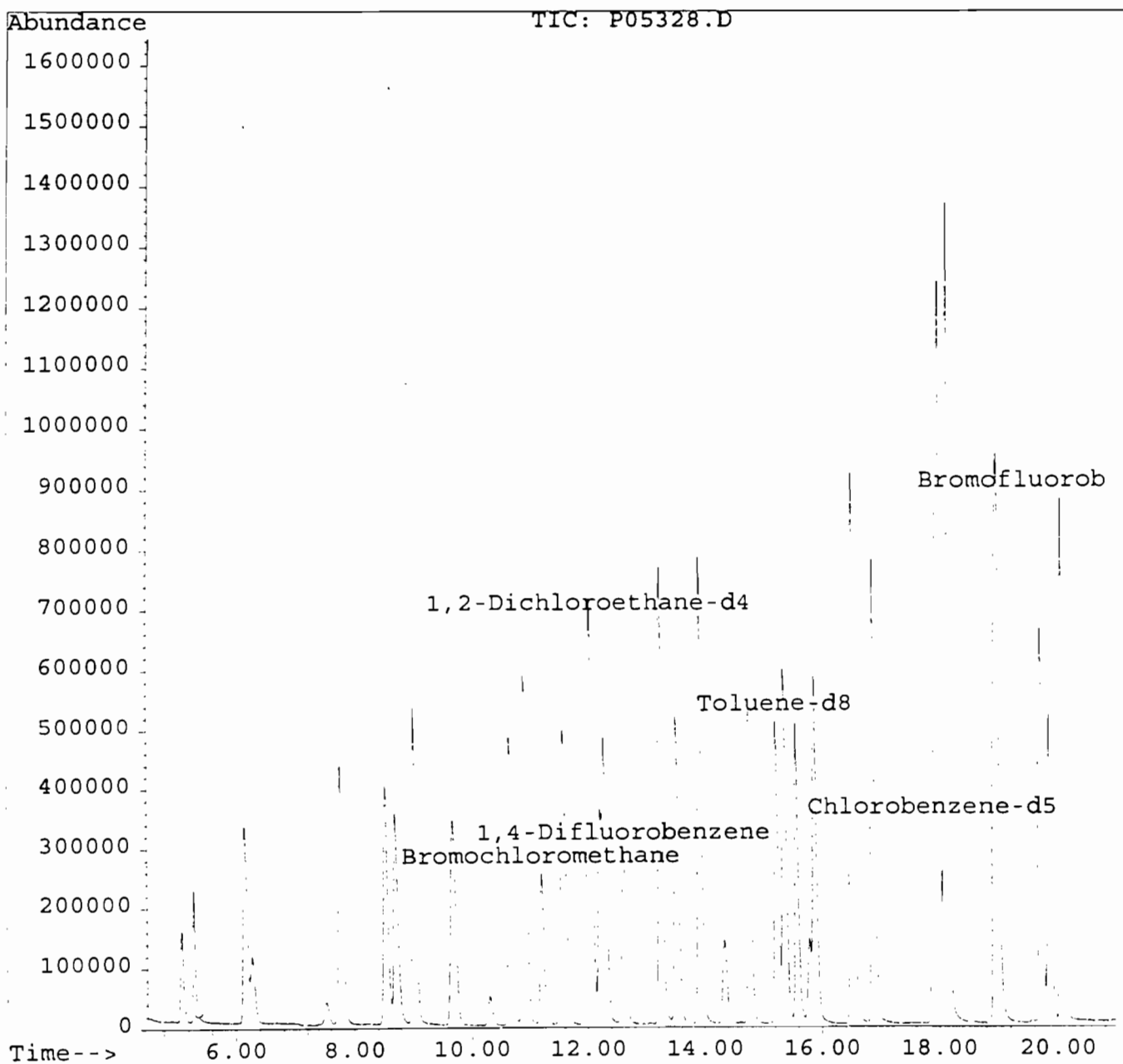
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.01	104	388085	41.31	UG/L	92
44) m/p-Xylene	18.15	106	472616	92.27	UG/L	91
45) 1,1,2,2-Tetrachloroethane	19.88	83	336208	36.38	UG/L	91

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



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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

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

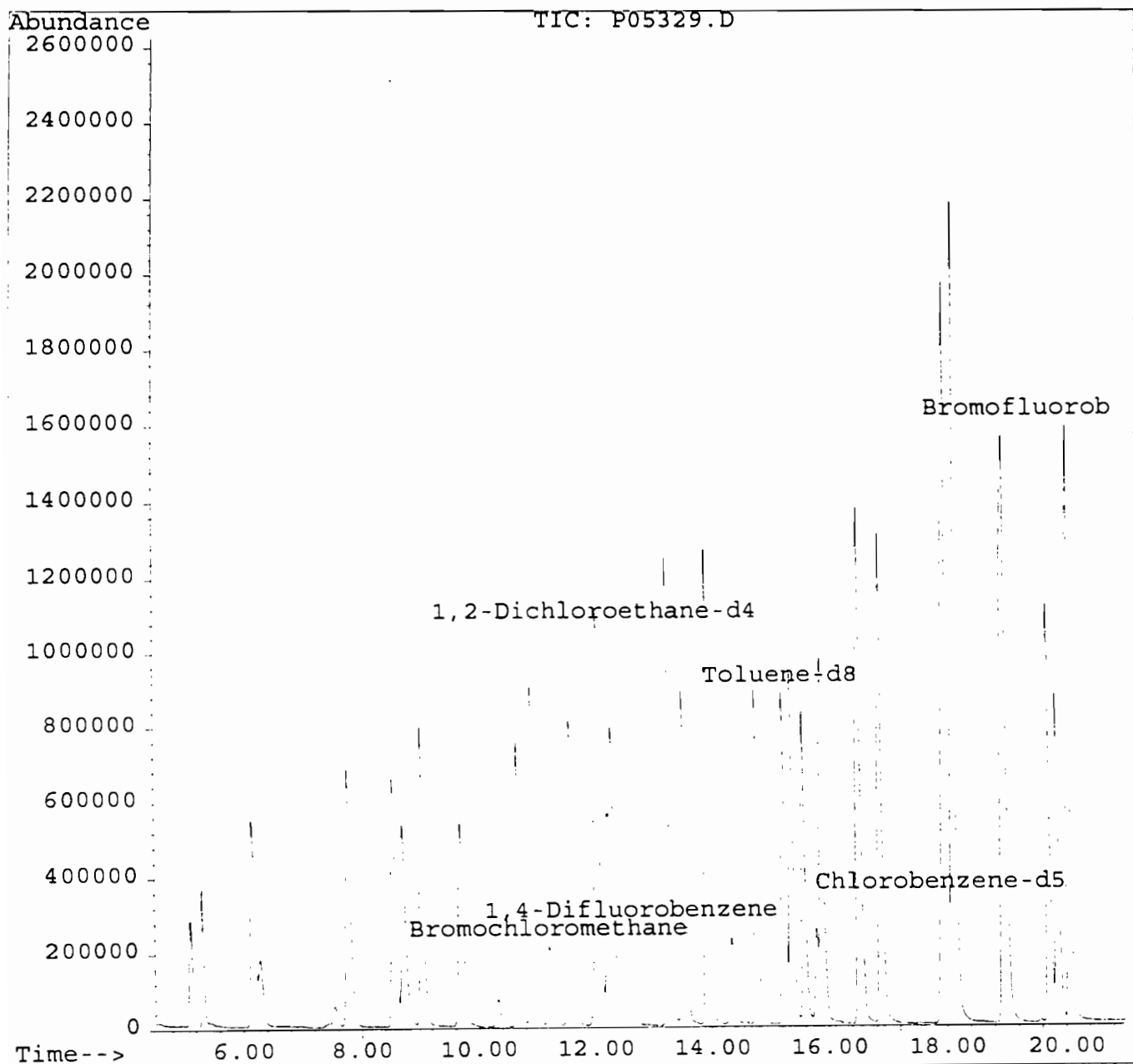
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.02	104	775922	87.83	UG/L	93
44) m/p-Xylene	18.15	106	914717	189.92	UG/L	95
45) 1,1,2,2-Tetrachloroethane	19.88	83	699283	80.47	UG/L	95

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



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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

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

P05329.D CLPS.M Tue Feb 11 10:59:52 1997 MASSPEC1

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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	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

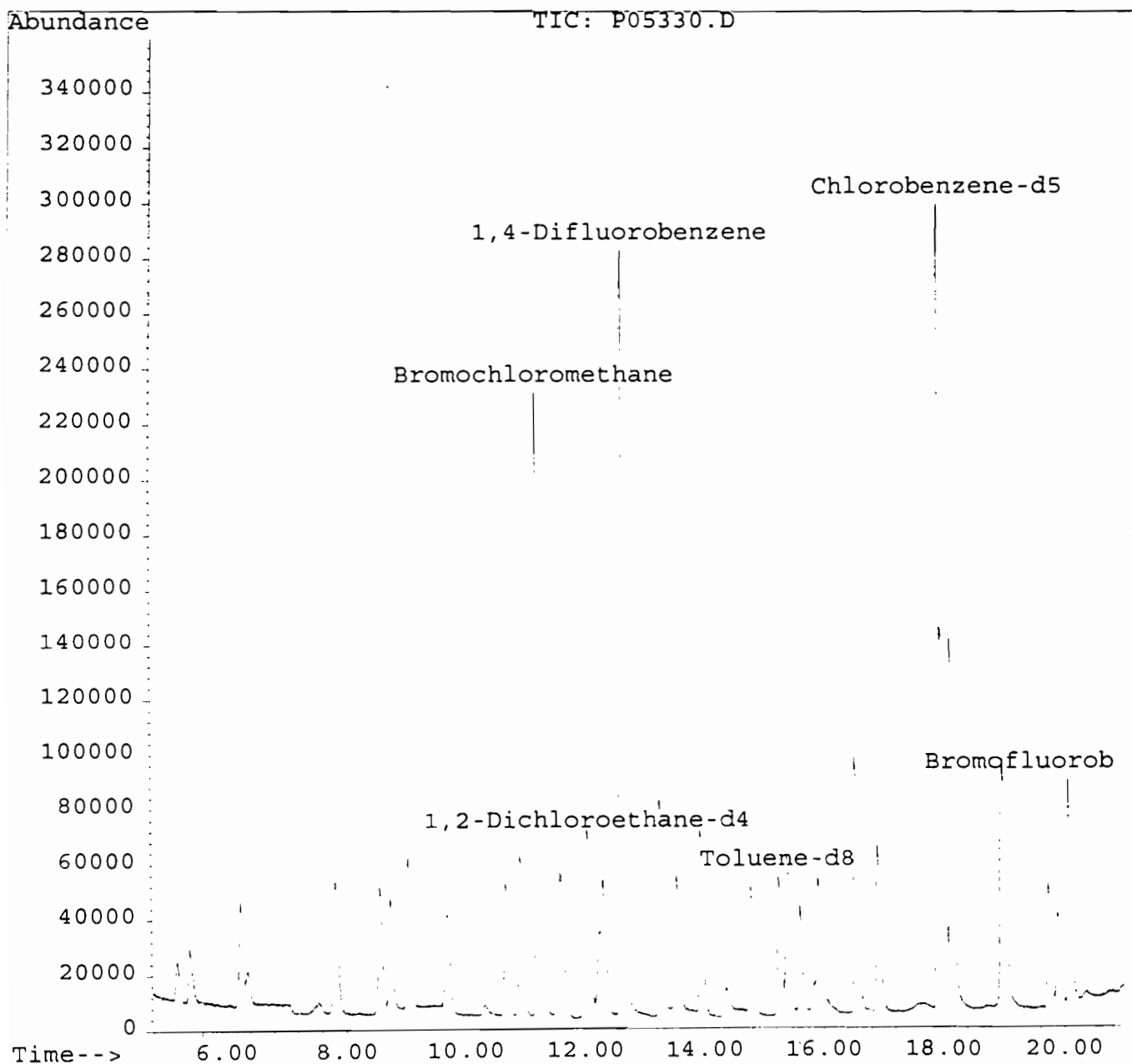
* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

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	R.T.	QIon	Response	Conc	Units	%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	R.T.	QIon	Response	Conc	Units	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

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

P05330.D CLPW.M

Mon Feb 10 15:49:52 1997

MASSPEC1

Page 1
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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

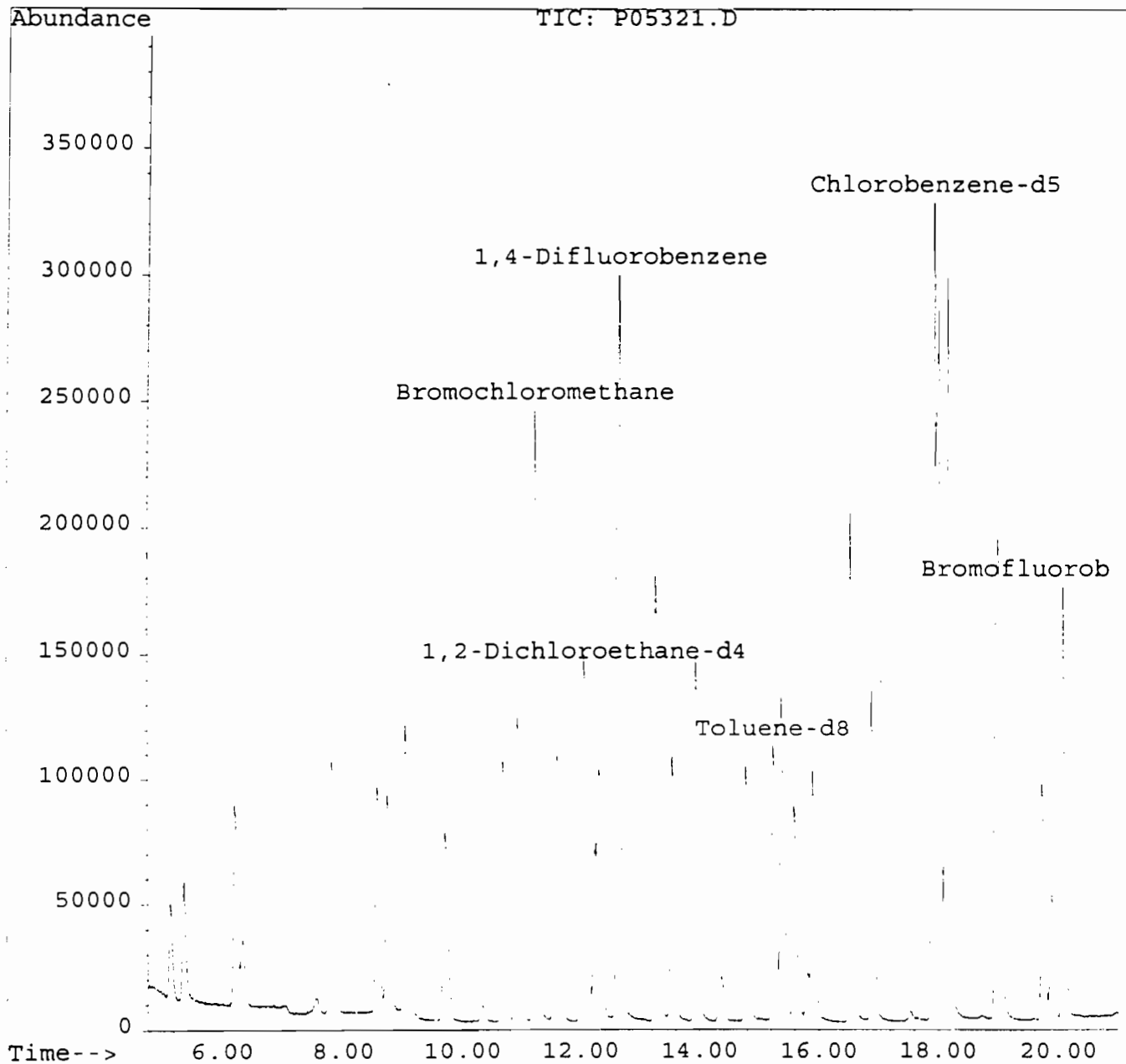
(#) = qualifier out of range (m) = manual integration

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



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

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

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

P05321.D CLPW.M Mon Feb 10 15:48:51 1997 MASSPEC1

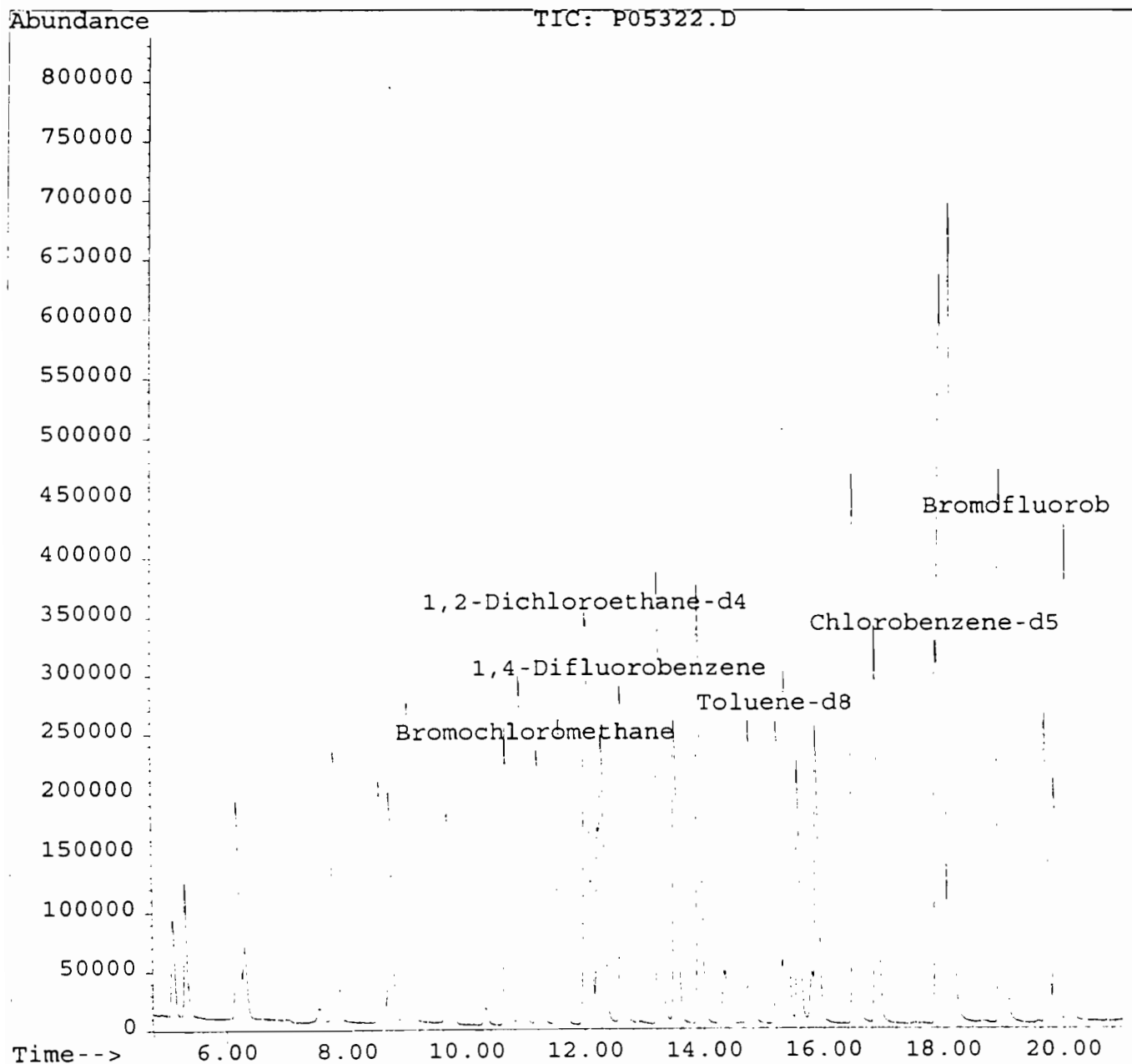
Page 2
V 01.43

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



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

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

P05322.D CLPW.M

Mon Feb 10 15:49:08 1997

MASSPEC1

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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

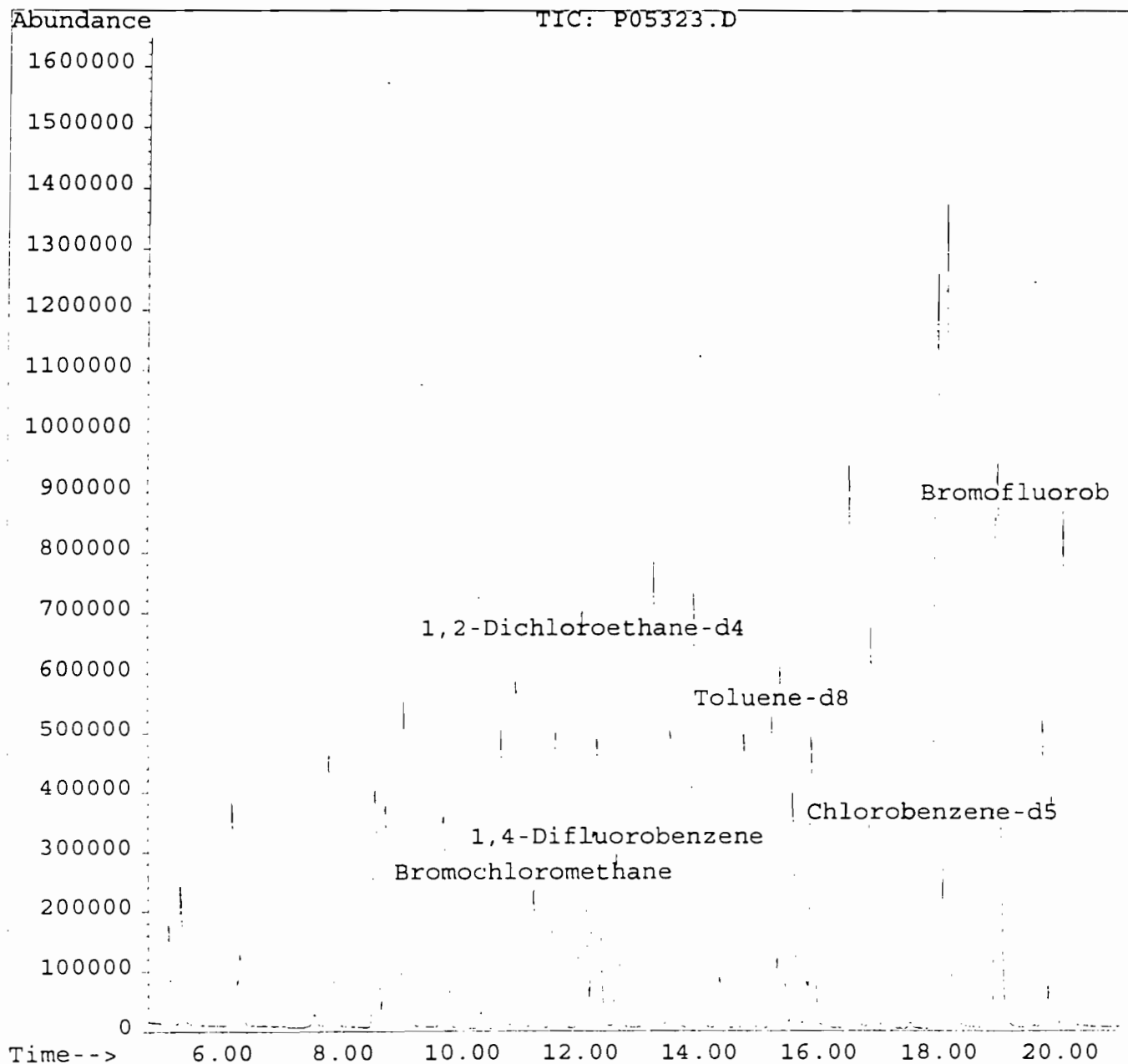
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.01	104	372566	51.38	UG/L	93
44) m/p-Xylene	18.15	106	459502	109.19	UG/L #	89
45) 1,1,2,2-Tetrachloroethane	19.88	83	279790	59.82	UG/L	92

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



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

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

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

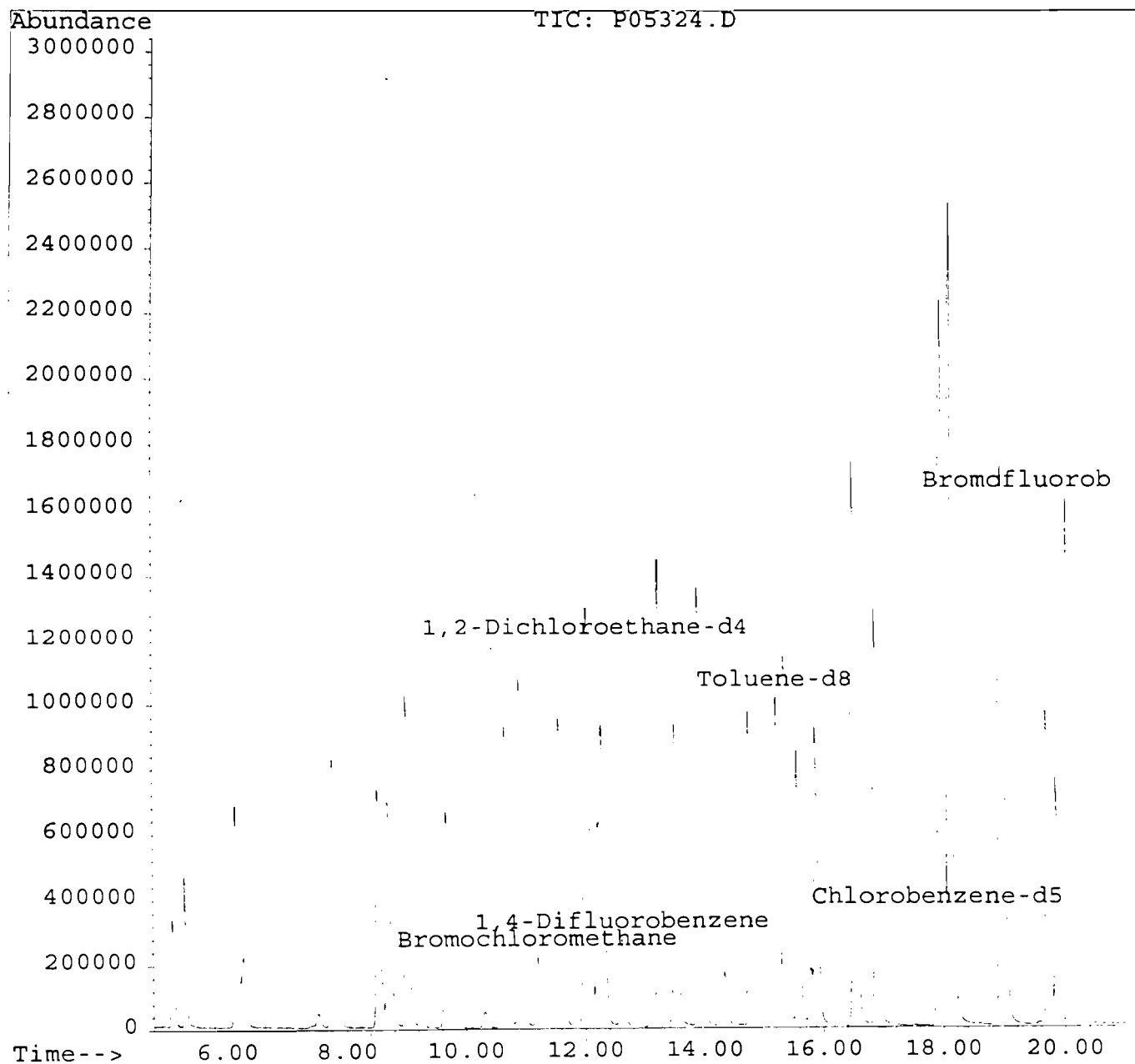
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.02	104	765322	104.75	UG/L	96
44) m/p-Xylene	18.15	106	918759	216.66	UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.88	83	529585	112.37	UG/L	96

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



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

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

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

P05324.D CLPW.M Mon Feb 10 15:49:35 1997 MASSPEC1

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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

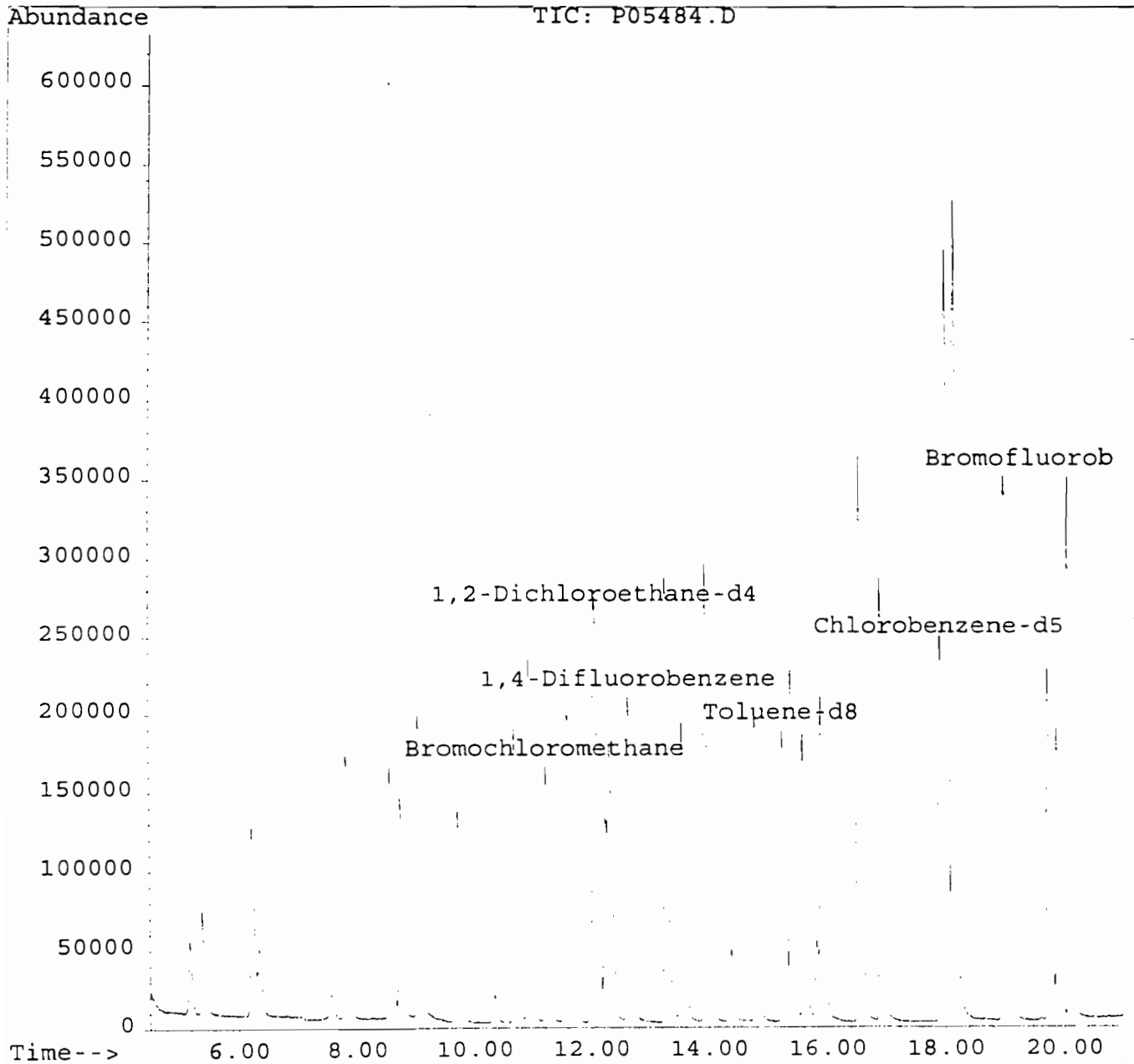
All other compounds must meet a minimum RRF of 0.010.

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



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

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

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

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

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

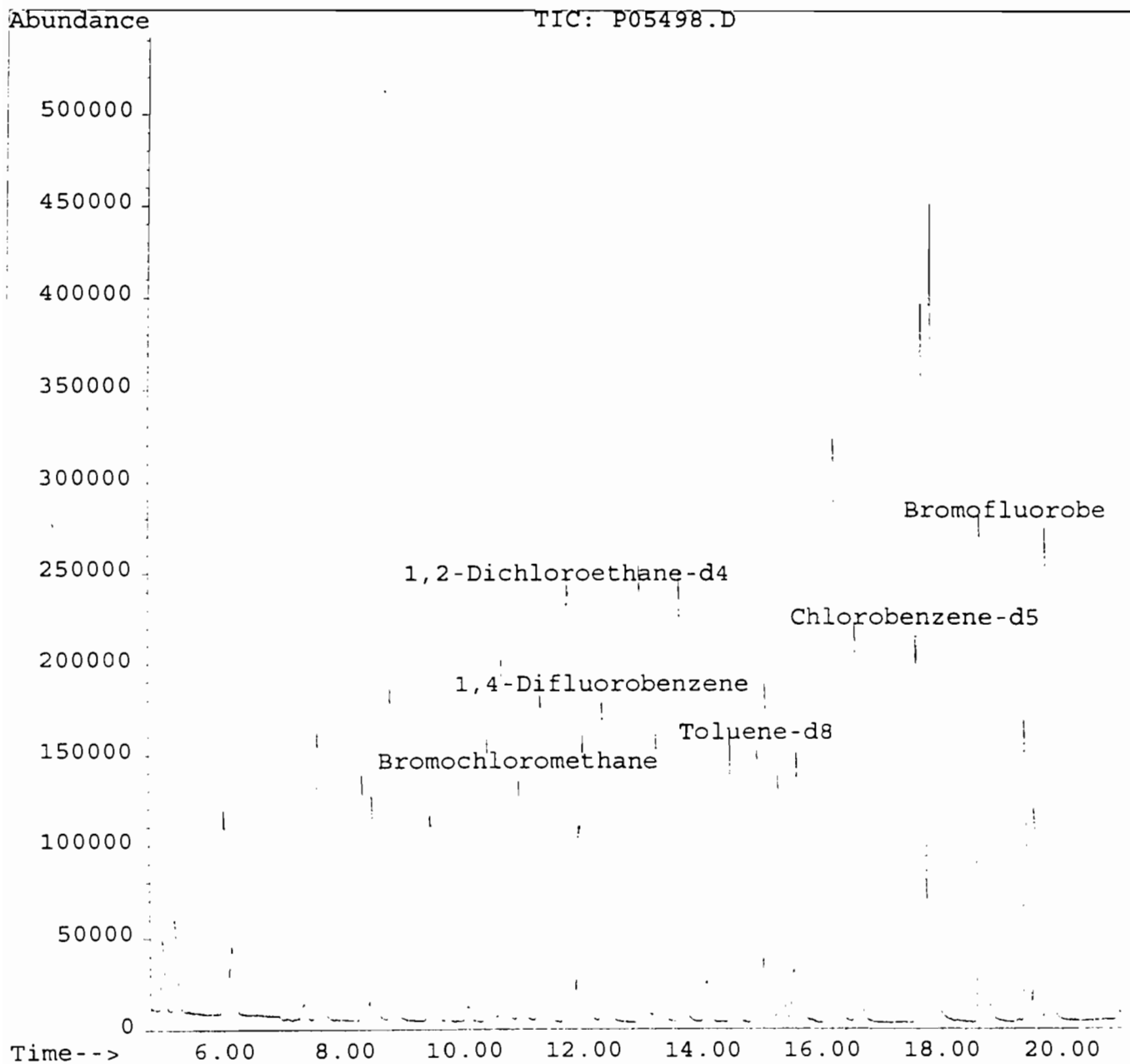
All other compounds must meet a minimum RRF of 0.010.

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



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

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

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

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

P05498.D CLPW.M Mon Feb 10 15:50:10 1997 MASSPEC1

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

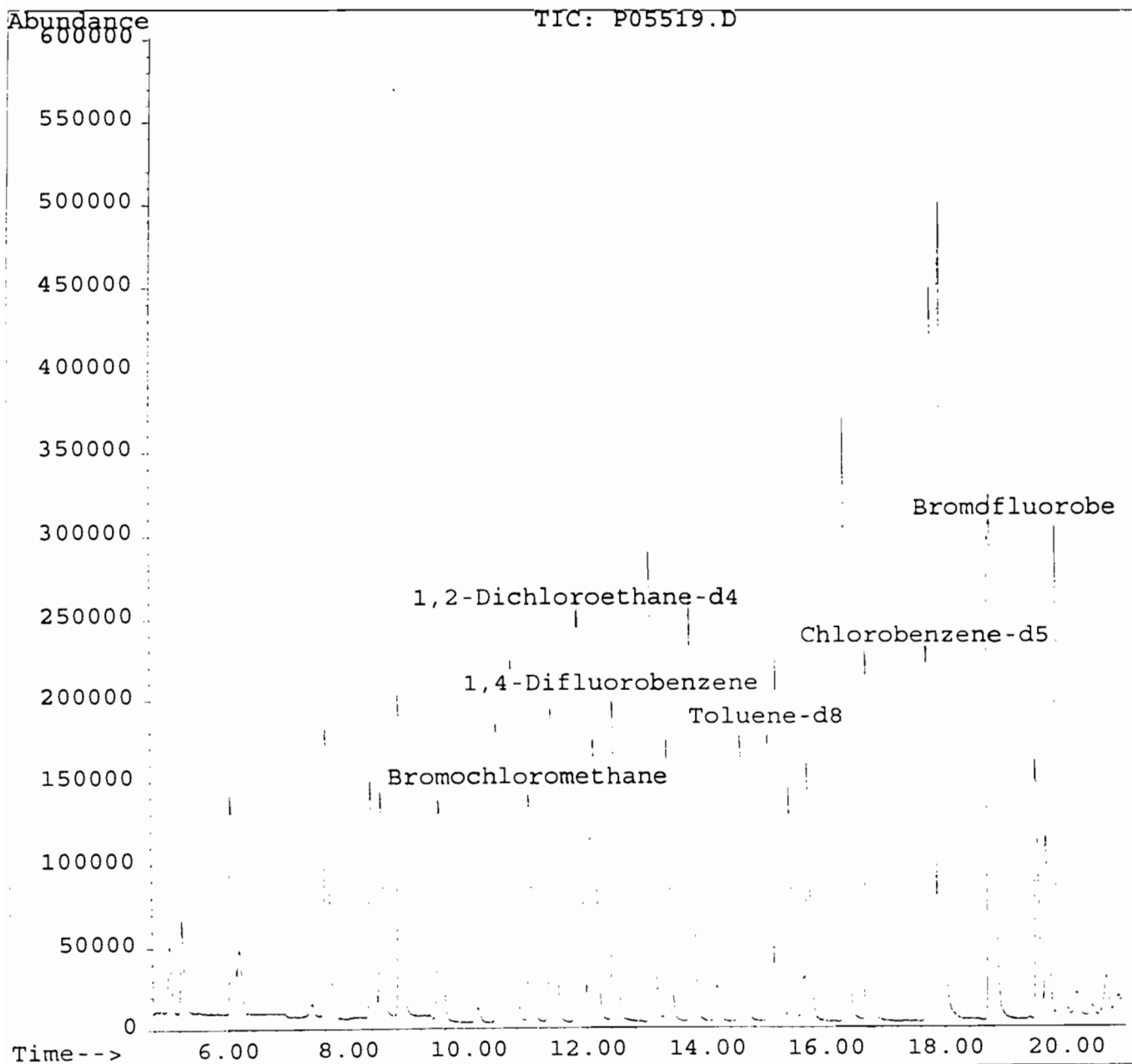
All other compounds must meet a minimum RRF of 0.010.

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



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

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

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

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

P05519.D CLPW.M

Mon Feb 10 15:50:28 1997

MASSPEC1

Page 2

V 016.1

H2M LABS, INC.

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

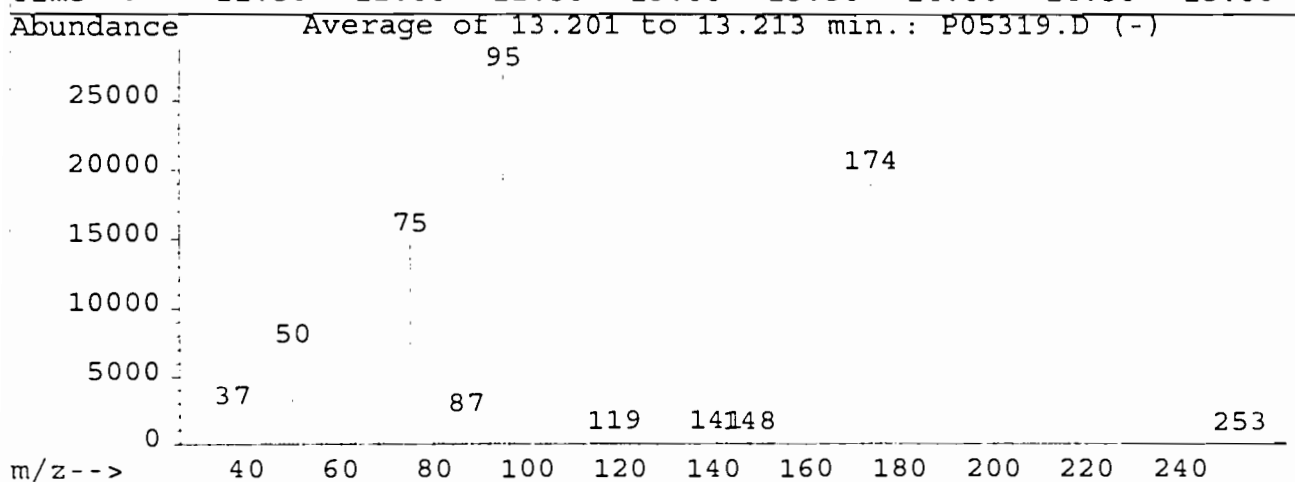
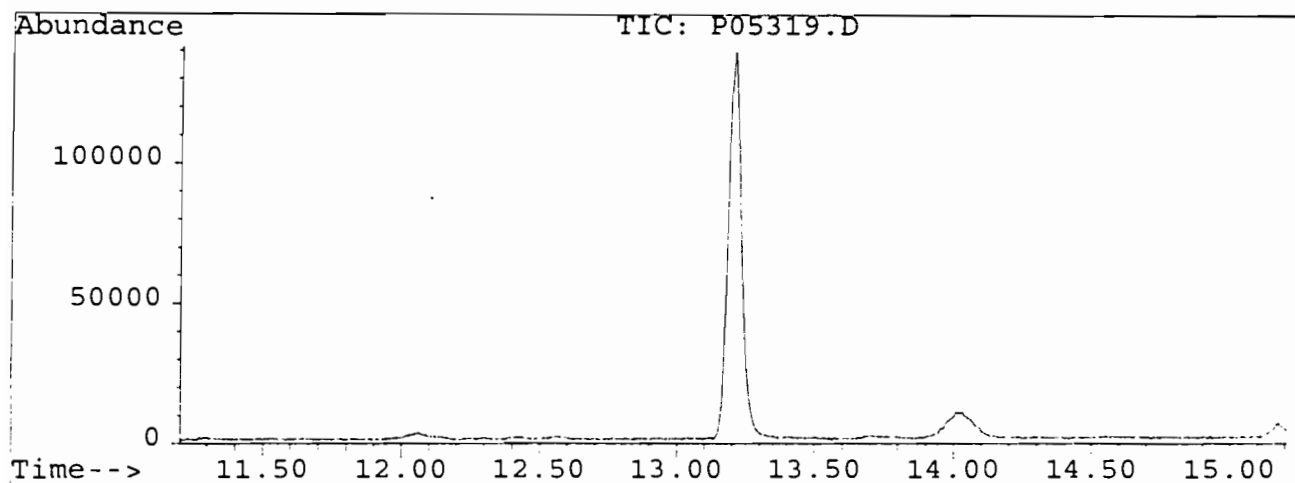
- A. TUNING
- B. BLANK
- C. ~~MATRIX SPIKE BLANK~~
- D. ~~SPIKE AND SPIKE DUPLICATE~~
- E. COPY OF CALCULATIONS

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

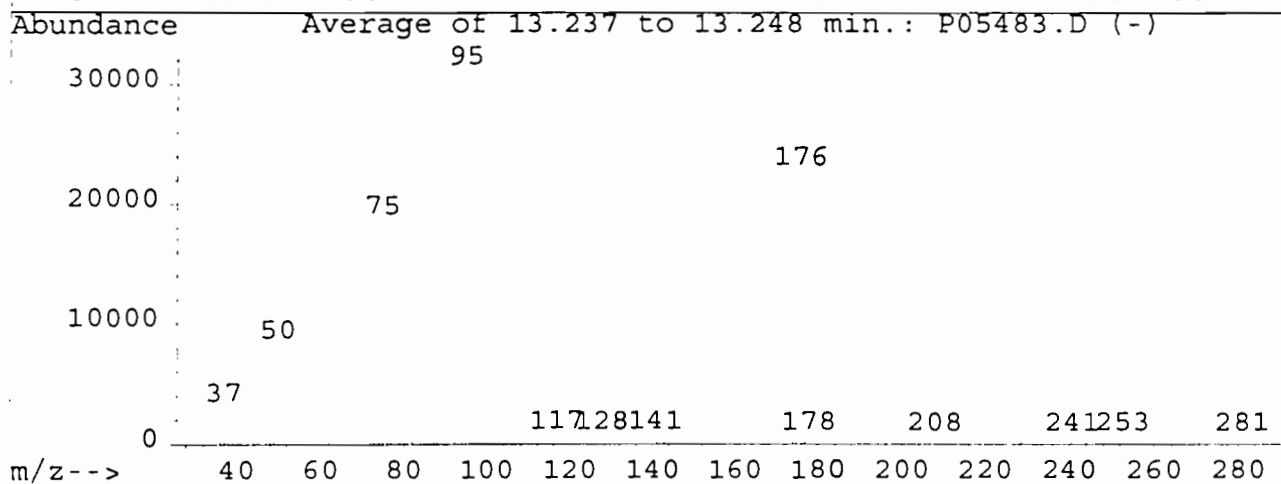
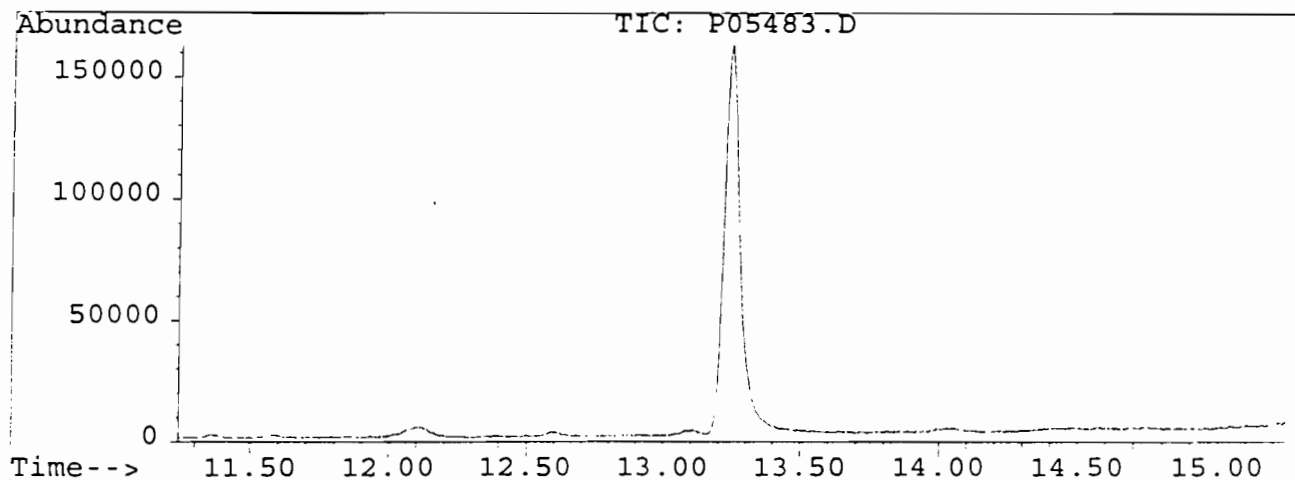
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	6589	PASS
75	95	30	60	52.9	14581	PASS
95	95	100	100	100.0	27571	PASS
96	95	5	9	7.1	1947	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.2	19077	PASS
175	174	5	9	8.0	1529	PASS
176	174	95	101	98.2	18739	PASS
177	176	5	9	6.9	1295	PASS

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

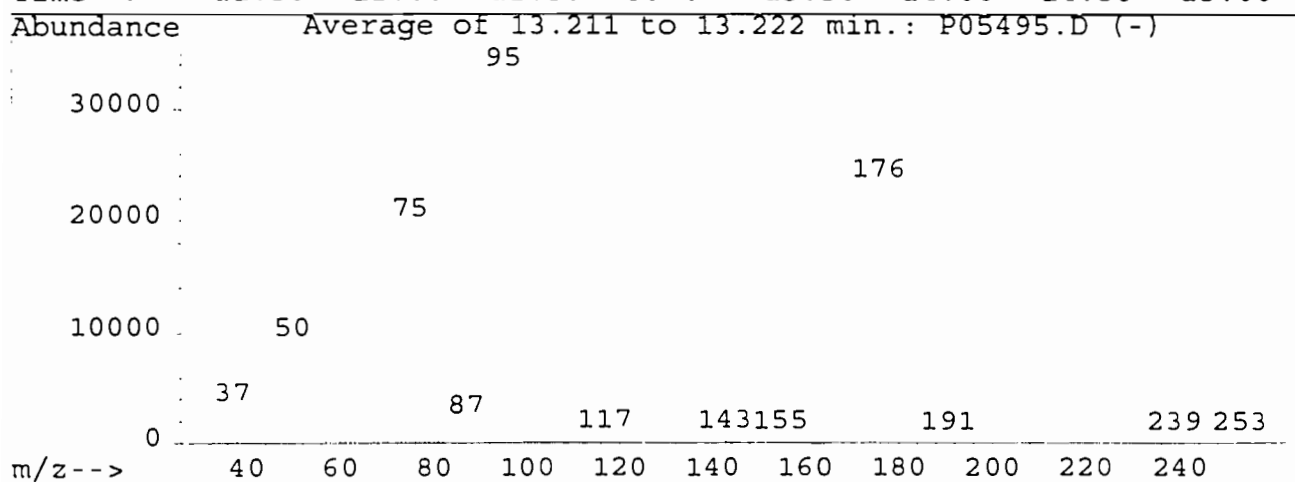
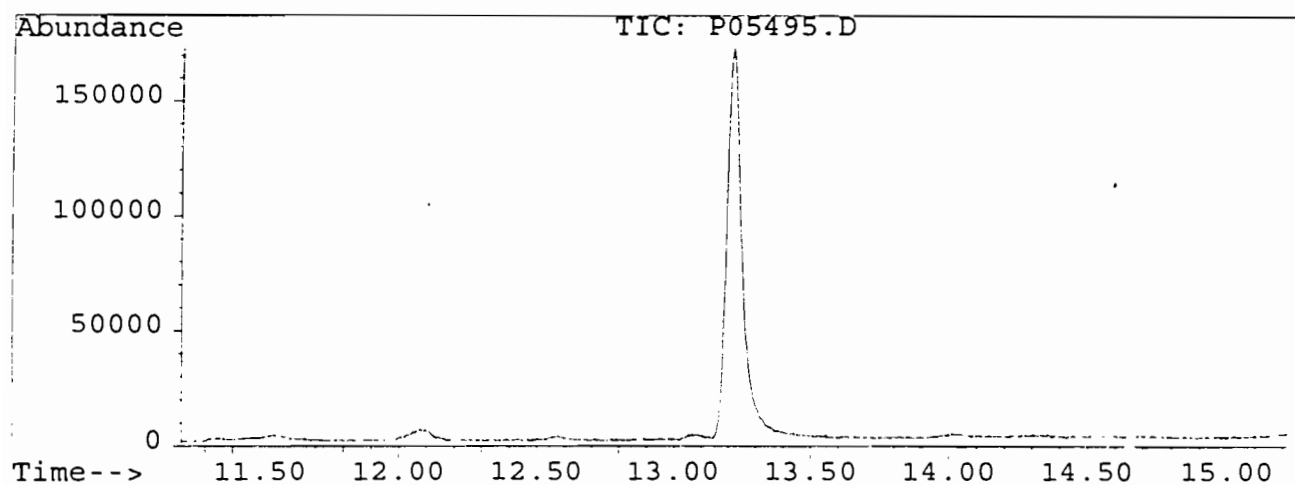
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	7735	PASS
75	95	30	60	57.2	18112	PASS
95	95	100	100	100.0	31675	PASS
96	95	5	9	7.2	2289	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	22088	PASS
175	174	5	9	7.3	1623	PASS
176	174	95	101	100.4	22176	PASS
177	176	5	9	7.2	1591	PASS

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 Ekg: 1585

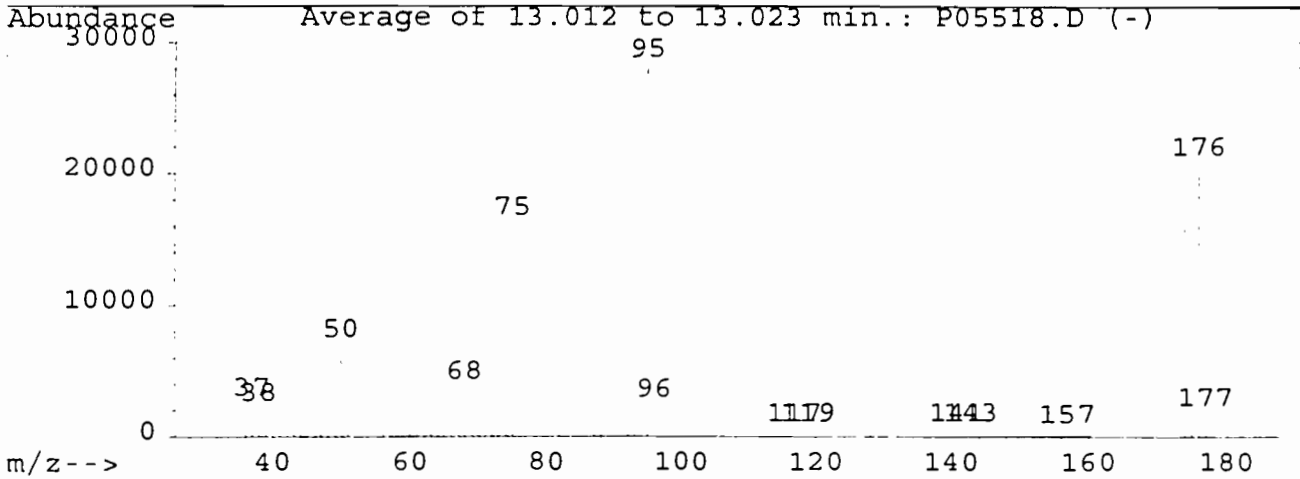
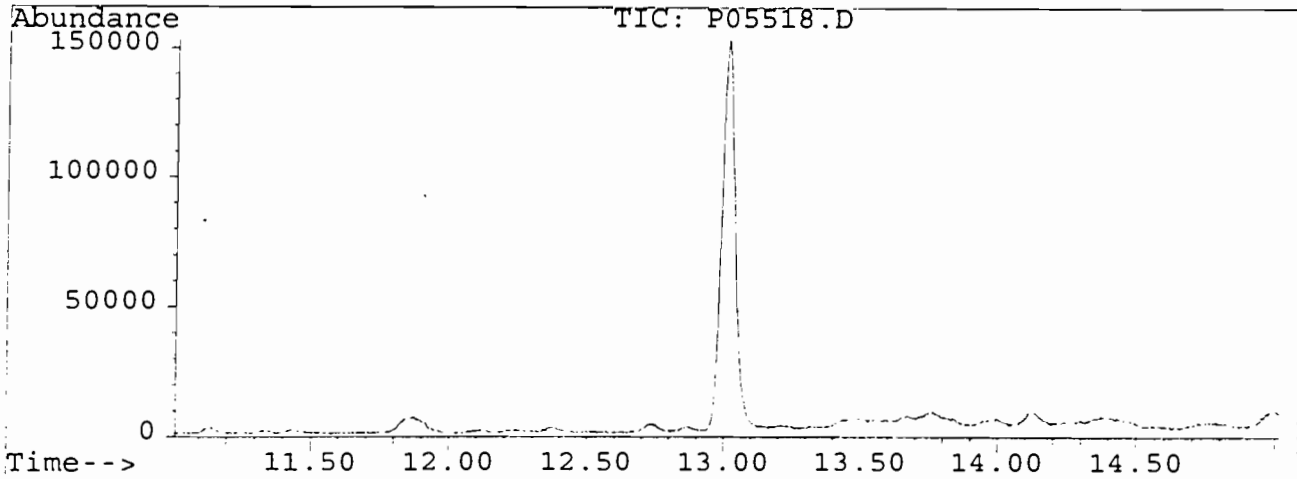
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	8561	PASS
75	95	30	60	56.7	19221	PASS
95	95	100	100	100.0	33917	PASS
96	95	5	9	7.4	2502	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.6	22587	PASS
175	174	5	9	7.5	1685	PASS
176	174	95	101	100.6	22725	PASS
177	176	5	9	6.8	1540	PASS

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLBK01

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: VLBK27

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)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

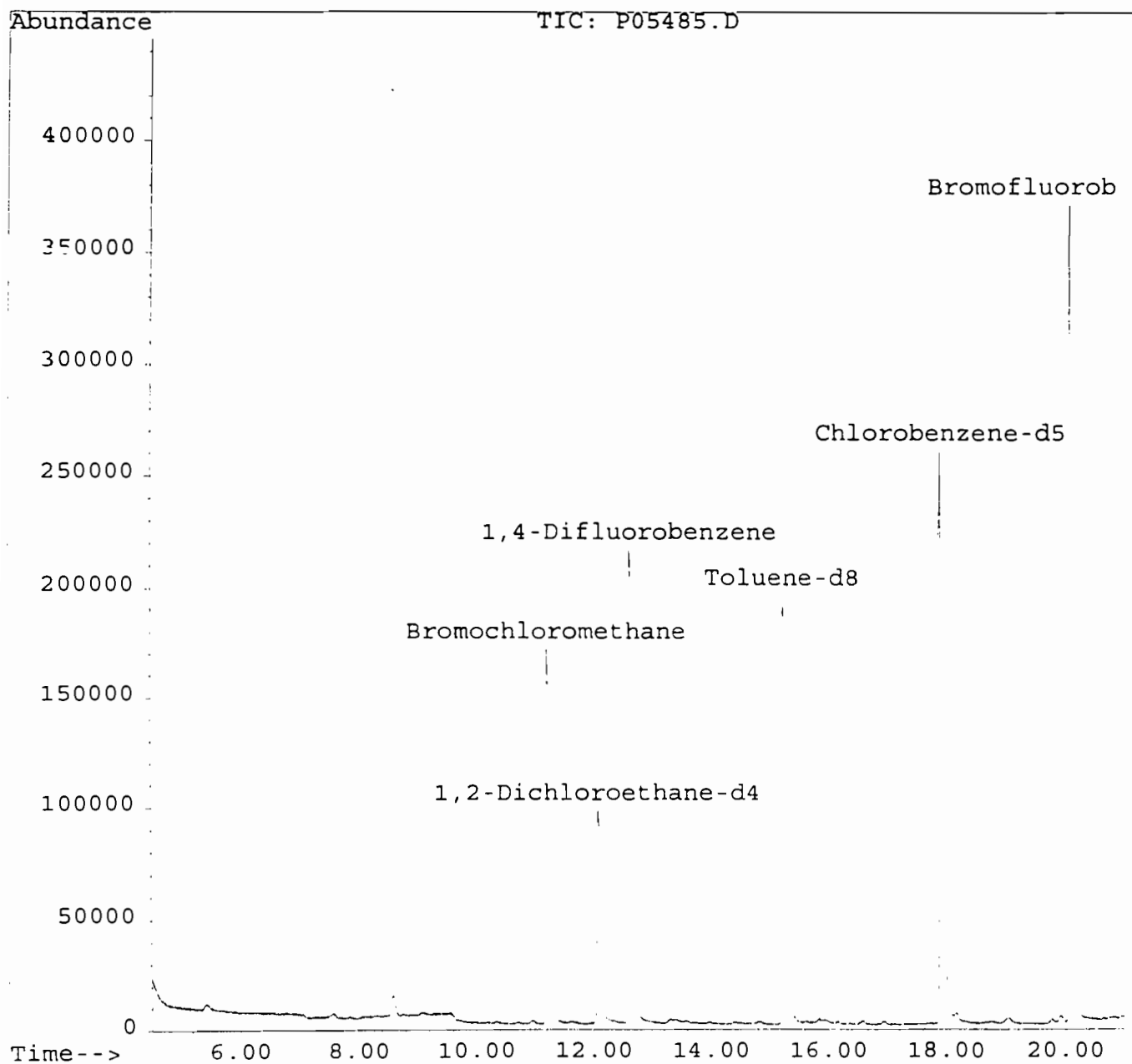
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

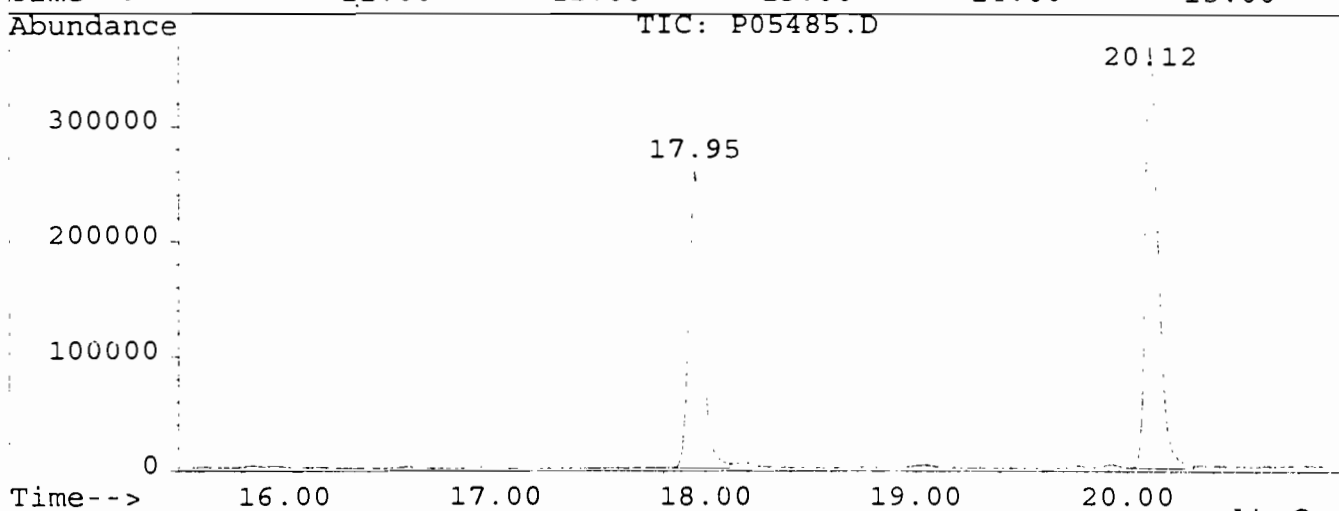
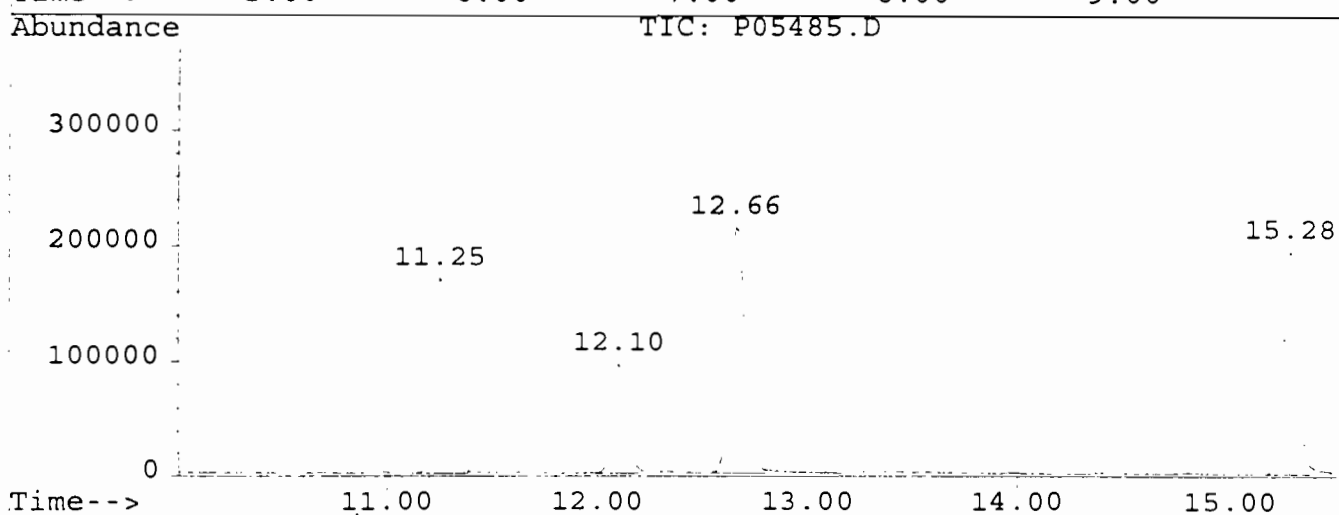
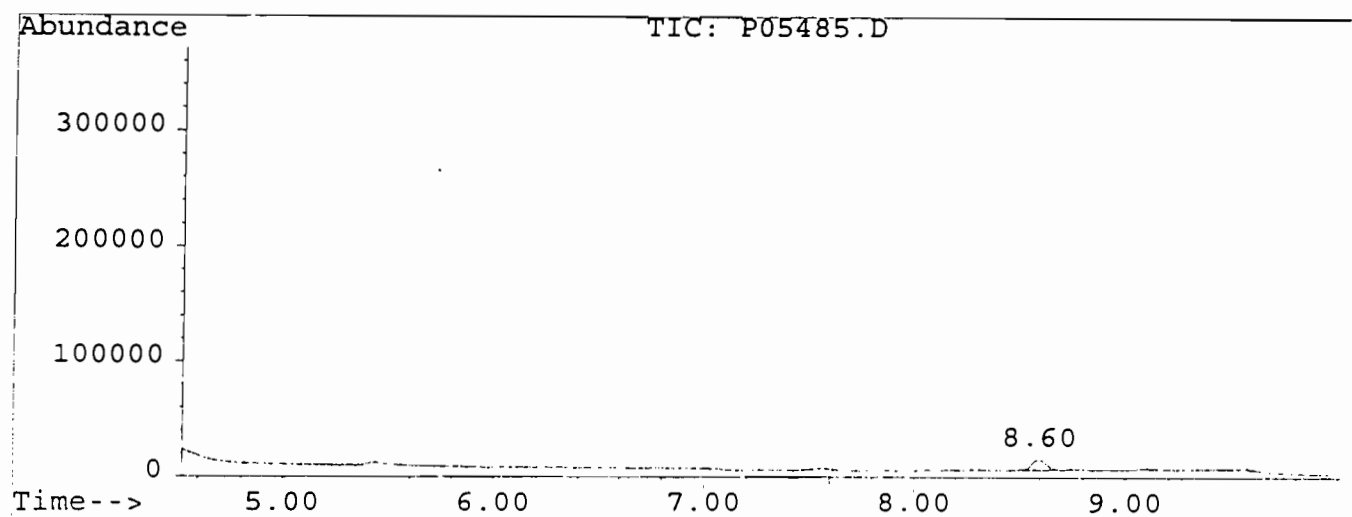
Data File : C:\HPCHEM\1\DATA\P05485.D
 Acq On : 27 Jan 97 4:00 pm
 Sample : VBLK27
 Misc : H5970-3 1/27/97 5.0G
 Quant Time: Feb 11 10:50 1997

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



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

Library Search Compound Report

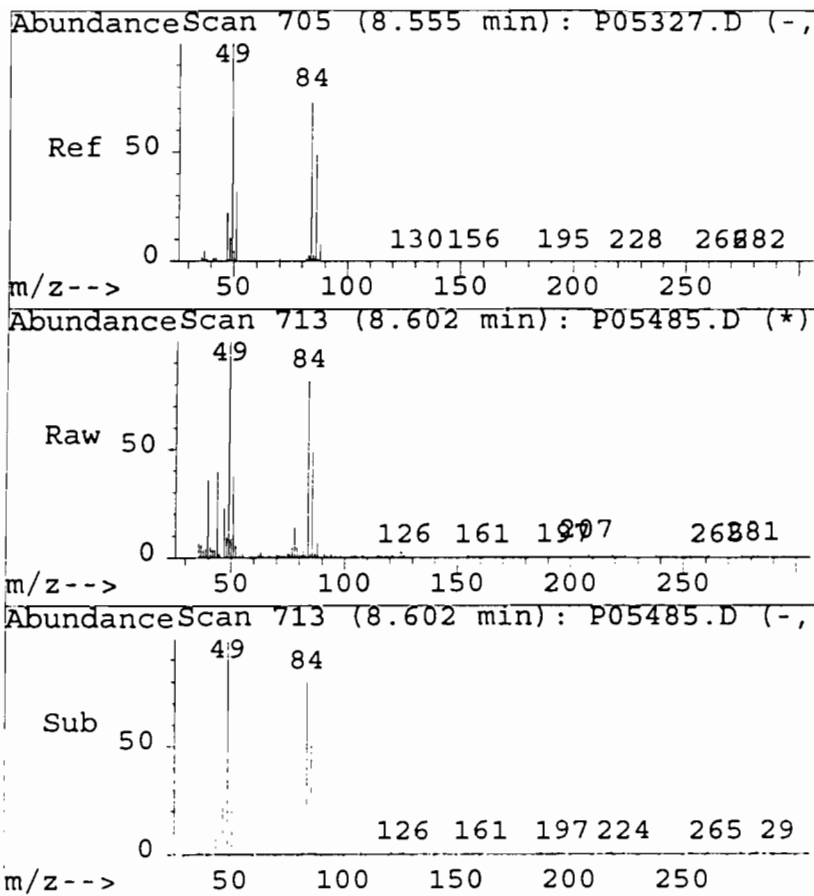
Data File : C:\HPCHEM\1\DATA\P05485.D
Acq On : 27 Jan 97 16:00
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G

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

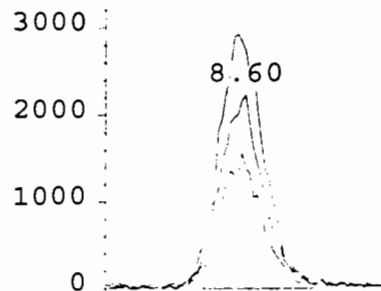
V 0175



#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

Abundance	Ion	84.00	(83.
4000	Ion	49.00	(48.
	Ion	86.00	(85.



Time-->8.39 8.76

Sample Name: VBLK27
Misc. Info: H5970-3 1/27/97 5.0G
P05485.D CLPS.M Tue Feb 11 11:00:33 1997

MASSPEC1

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V 0176

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

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:

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		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.

VBK01

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: VBK28
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:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

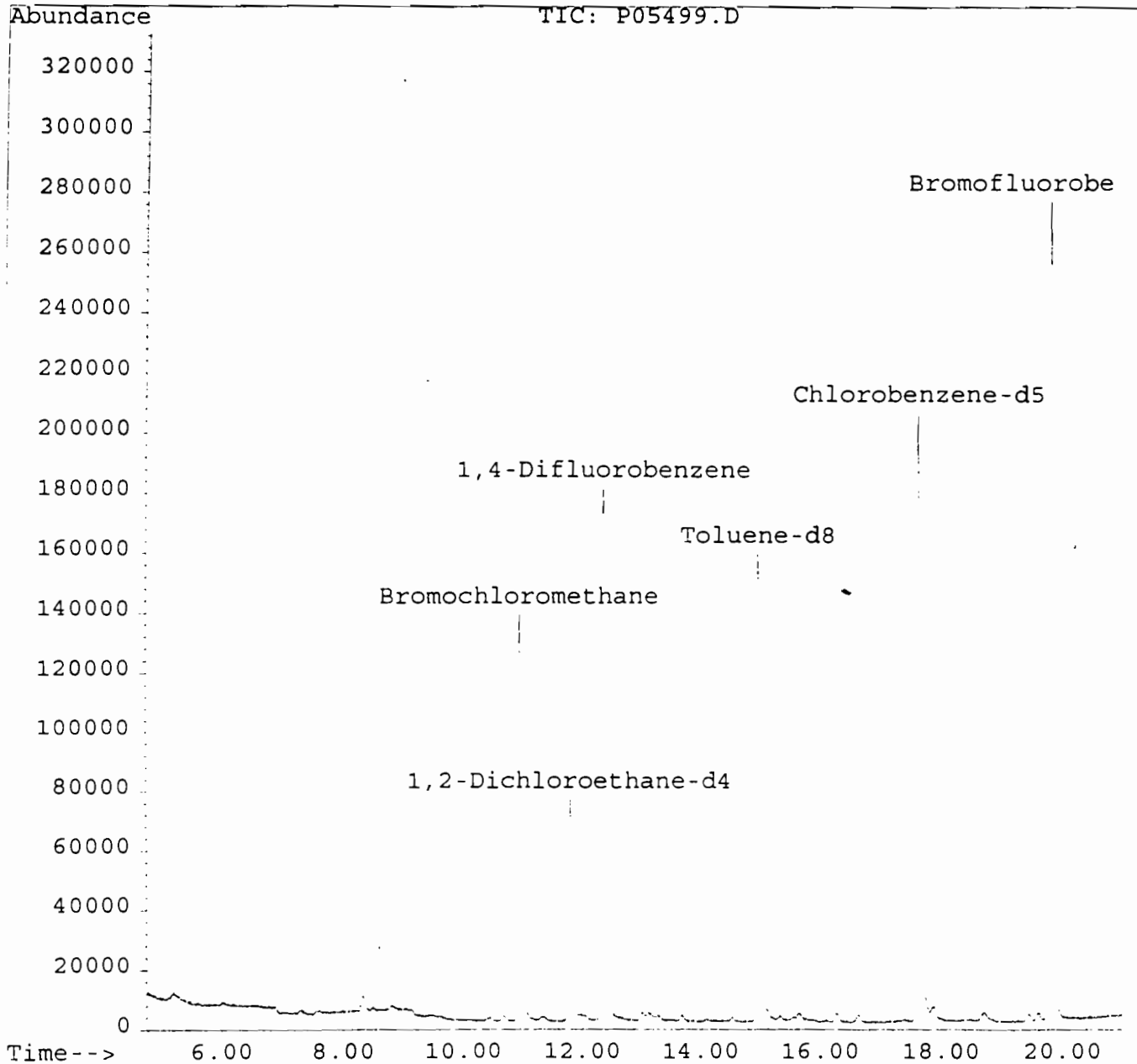
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

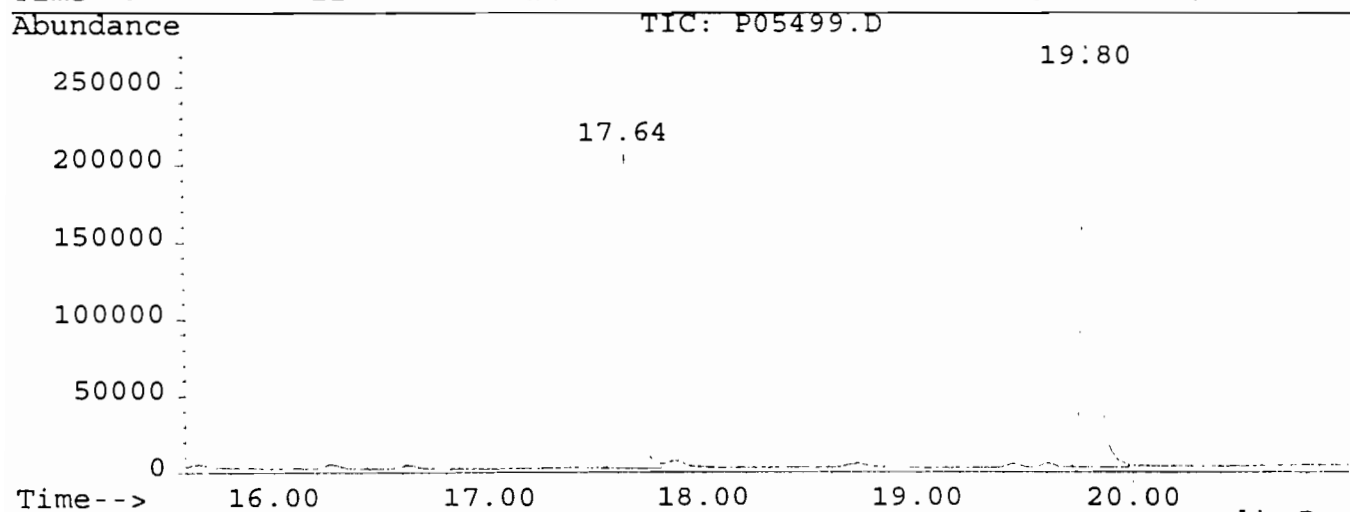
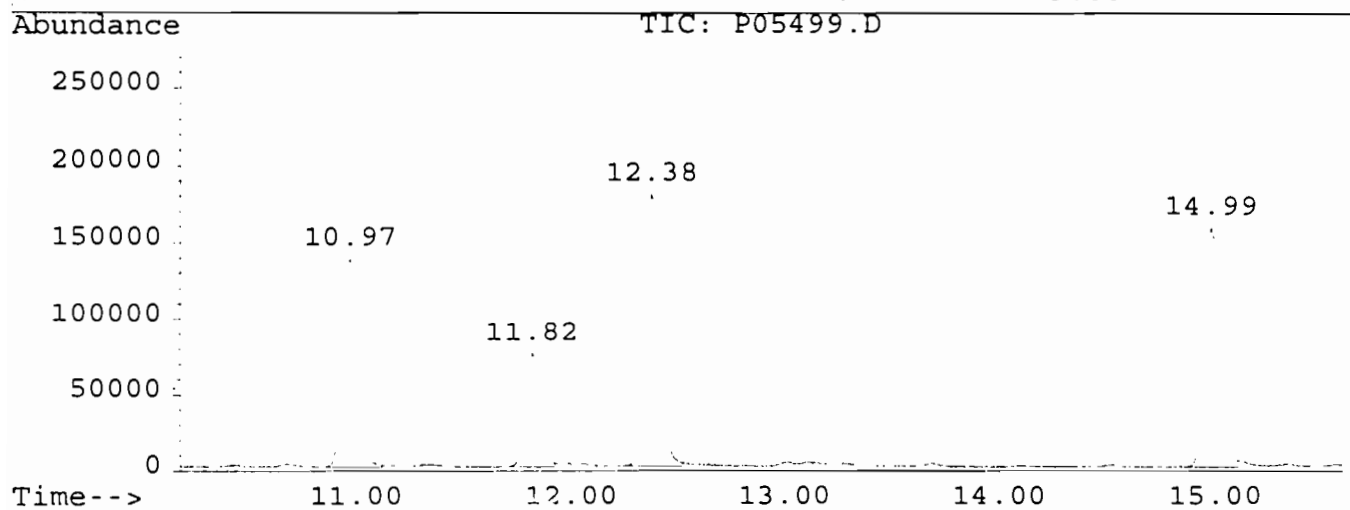
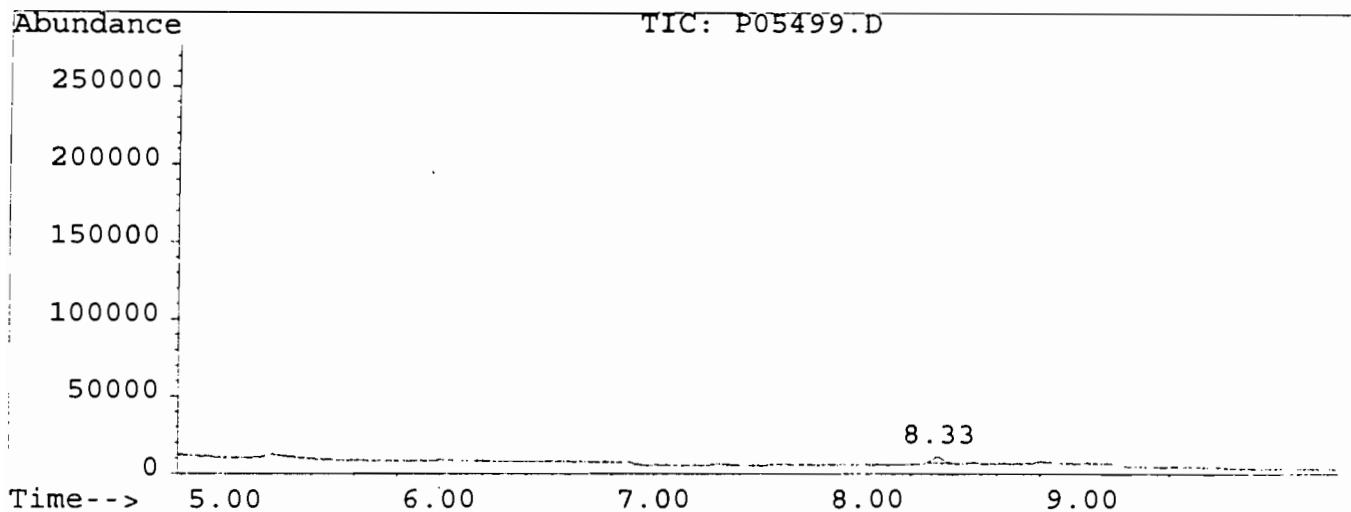
Data File : C:\HPCHEM\1\DATA\P05499.D
Acq On : 28 Jan 97 1:02 pm
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML
Quant Time: Feb 11 8:36 1997

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



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

P05499.D CLPW.M

Tue Feb 11 08:56:39 1997

MASSPEC1

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Library Search Compound Report

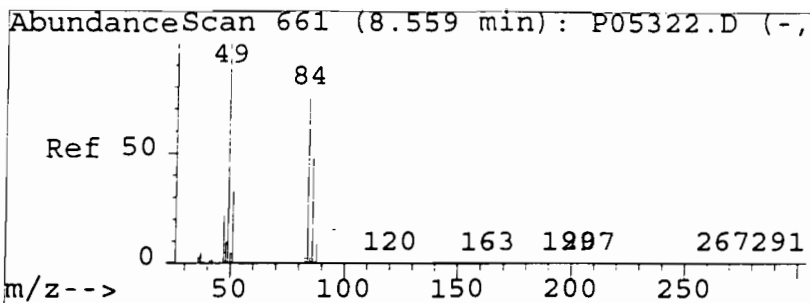
Data File : C:\HPCHEM\1\DATA\P05499.D
Acq On : 28 Jan 97 13:02
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

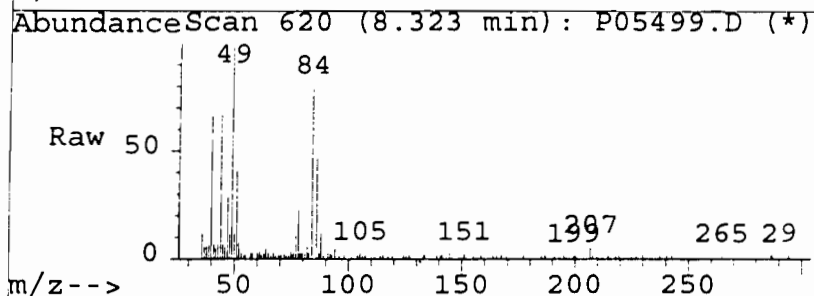
Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

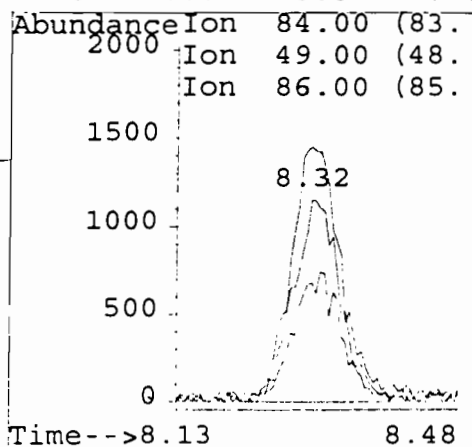
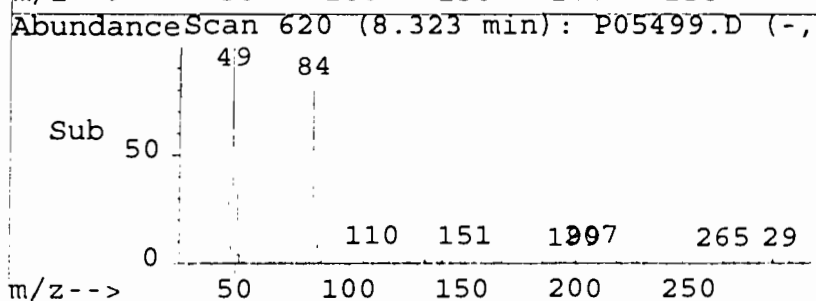
V 0152



#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



Sample Name: VBLK28
Misc. Info: H5970-3 1/28/97 5.0ML
P05499.D CLPW.M Tue Feb 11 08:56:47 1997

MASSPEC1

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V 0153

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK02

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: VBK29

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

Handwritten:
1/29/97
10478

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK02

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: VBK29

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

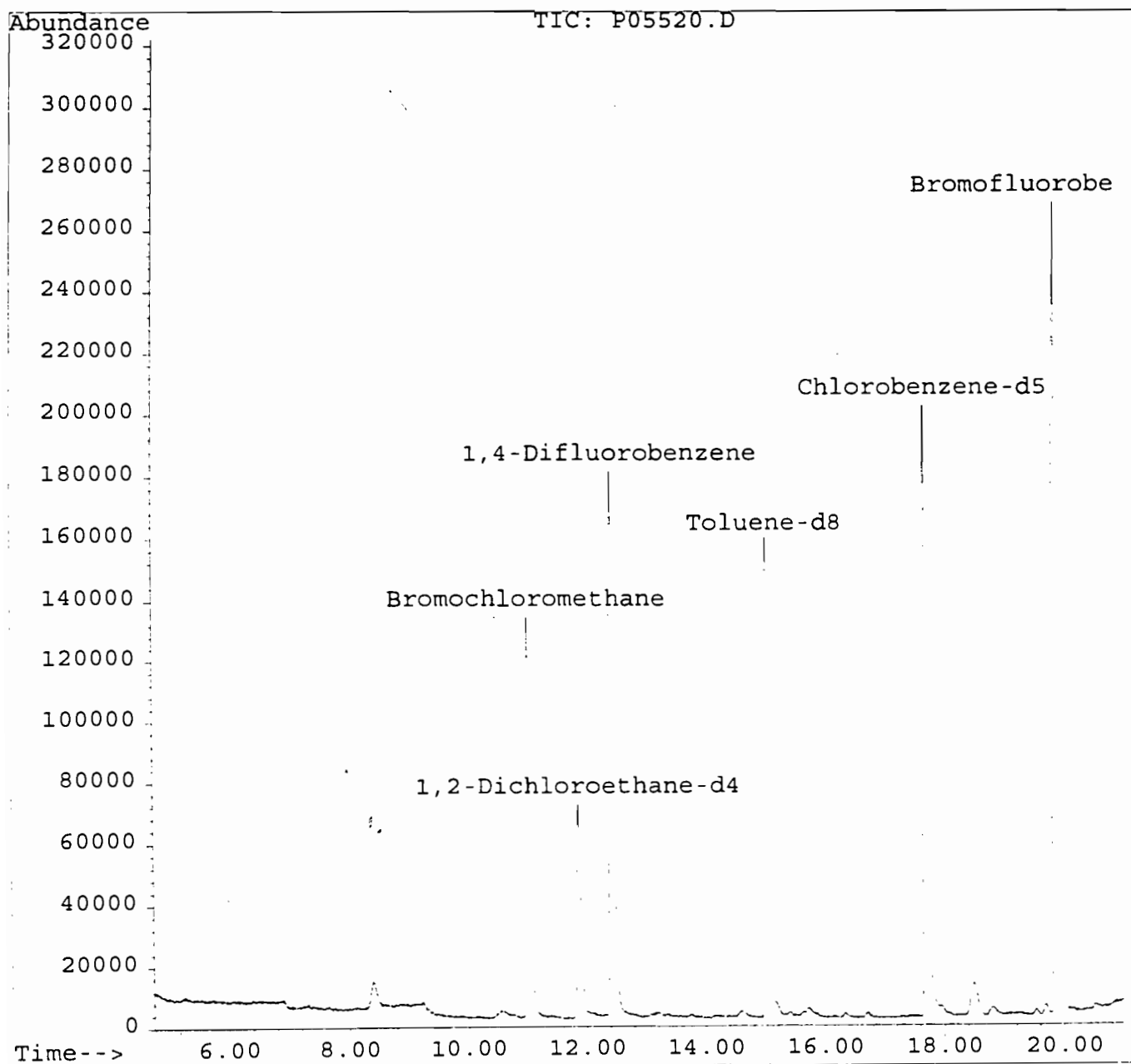
CAS NO.	COMPOUND	RT	EST. CONC.	Q

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

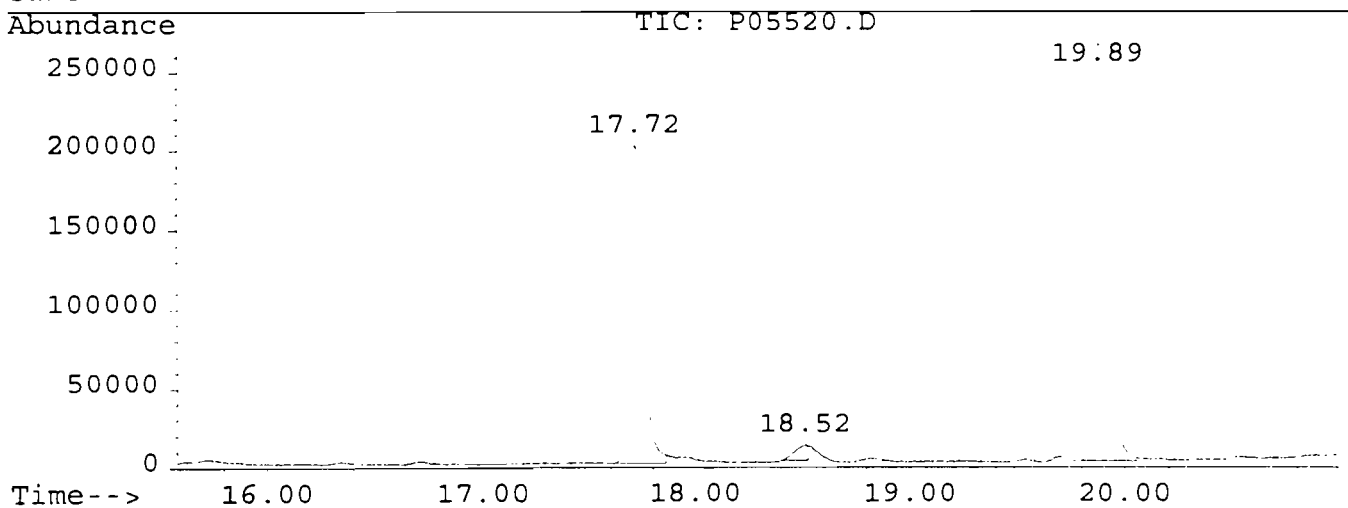
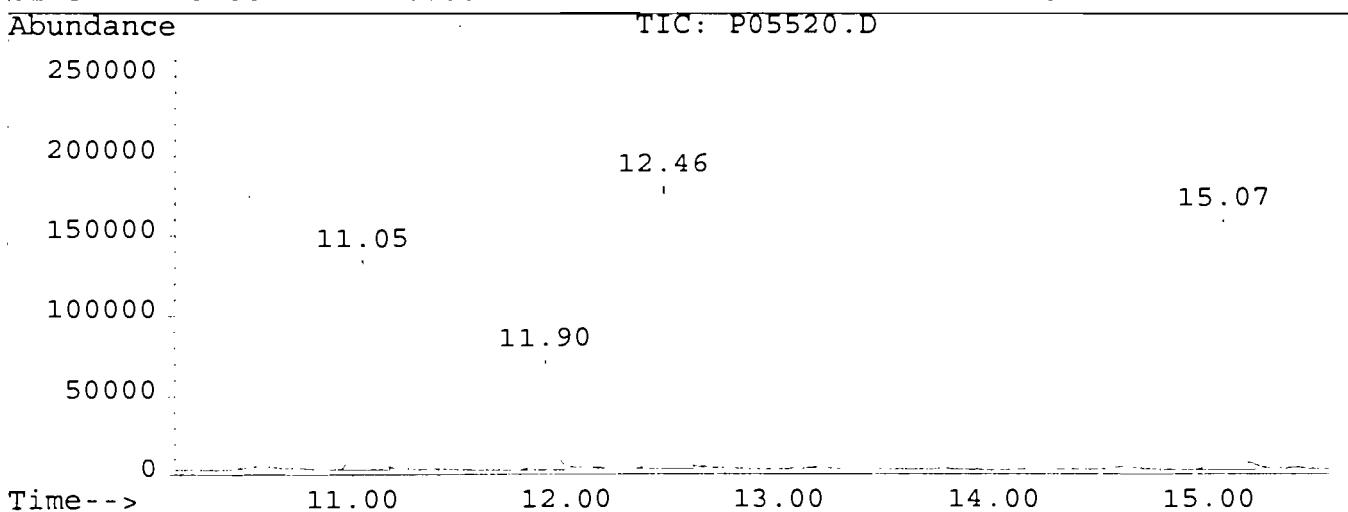
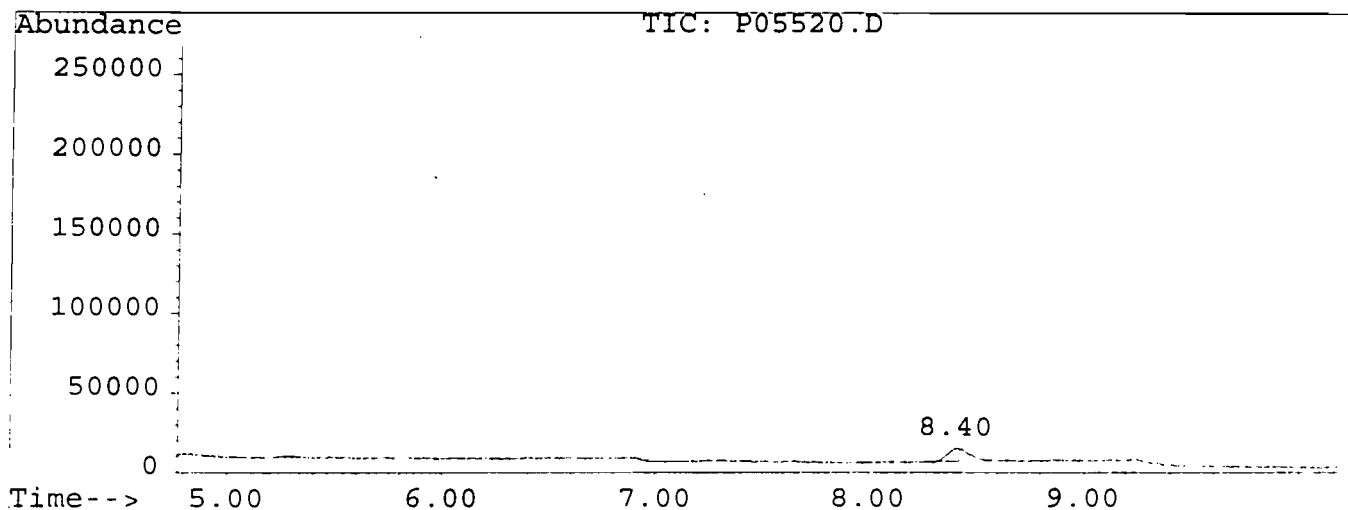
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

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 0186

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	R.T.	QIon	Response	Conc	Units	%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 0189

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS PERFORMED BY RTE DATA SYSTEM OF HP

$$\text{CONC} = \frac{\text{Ax}}{\text{Ais} \times \text{RRF}} \quad \frac{\text{Is}}{\text{W}}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

Ax = Area of characteristic ion of compound

Ais = Area of characteristic 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.

VOLATILE

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

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

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
12/26/96	P05317		9636749	5.0g	1	1523	J. Bachmich
"	P05318		9636749 ΔL	0.8g	2	1618	"
12/31/96	P05319	50ng BFB		5.0ml	1	0905	J. Bachmich
	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	↓
1/2/97	P05331	50ng BFB		5.0ml	8	1036	J. Bachmich
	P05332	VSTD050		"	CLPS.M 8	1153	
	P05333	VBLKZ		5.0g	9	1306	
	P05334	VHBLKZ			10	1402	
	P05335	EP-1	9637060		11	1433	
	P05336	MSBZ			12	1506	
	P05337	EP-1MS	9637060MS		13	1550	
↓	P05338	EP-1MSD	9637060 MSD	↓	14	1621	↓

Backed
up 1/2/97

P 0052

V 0192

H2M LAES, INC.

VOLATILE

	LOT #	SOLN ID
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
1/24/97	P05471	B60206	9702020	5.0g		11 1543	J.B. Murch
	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	J.B. Murch
	P05484	VST0050		5.0ml		1 1521	
	P05485	VBLK27		5.0g		2 1600	
	P05486	B60211 DL	9702025 DL	2.0g		3 1644	
	P05487	B60215 DL	9702029 DL	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

VOLATILE

	#	10
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	J. Boelucchi
	P05494	B60241	9702306		11	2051	J. Boelucchi
1/28/97	P05495	50 ng BFB		1ul	Direct	0931	J. Boelucchi
	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 N ₂ 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	

Backed up 1/28