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CARL H. ABBOTT 1867-1933
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April 27, 1993

Mr. Scott O. Seery, CHMM
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: Marshall Steel Cleaners/Tien Unocal Station

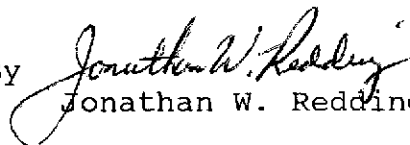
Dear Scott:

This letter is to transmit the chromatograms for the three samples taken in early March, 1993. As we discussed, I will be responding to Karen Nardi's letter of April 1, 1993, once I have reviewed the data generated by BSK on the Unocal property.

We look forward to continuing to cooperate with the County to resolve these matters without the necessity of a formal board order, if possible.

Very truly yours,

FITZGERALD, ABBOTT & BEARDSLEY

By 
Jonathan W. Redding

JWR:iium

Enclosures

cc: Karen Nardi, Esq. (w/o enclosures)
Kevin Haroff, Esq. (w/enclosures)
Bill Kelley (w/enclosures)
Randall Nahas (with extra enclosure from Curtis Thompkins)



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

20 April 1993

Mr Jonathan Redding
Fitzgerald, Abbott & Beardsley
1221 Broadway
21st Floor
Oakland, CA 94612

**RE: Curtis & Tompkins Lab Number 110234
Applied Geotechnology Project Number 15722.001**

Dear Mr Redding:

Enclosed please find the raw data we discussed 4/14/93 for the above-referenced project. Included for the EPA Method 8240 analysis are quant reports and total ion chromatograms for all samples, as well as spectra for those compounds with reported concentrations.

If you have any further questions, please feel free to call me at (510) 486-0900.

Sincerely,

CURTIS & TOMPKINS, LTD.

John Goyette
Operations Mananger

cc: Dan Henninger

QUANT REPORT

Operator ID: AL
 Output File: ^CCA09::DB
 Data File: >CCA09::D4
 Name: RE,110234-001
 Misc: 8240,V,8528,0.25,5,1, WATER

Quant Rev: 7 Quant Time: 930310 20:10
 Injected at: 930310 19:17
 Dilution Factor: 1.00000
 Instrument ID: VOA 03

ID File: ID3VOW::QT
 Title: IFB
 Last Calibration: 930226 16:26

Last Qcal Time: 930310 10:57

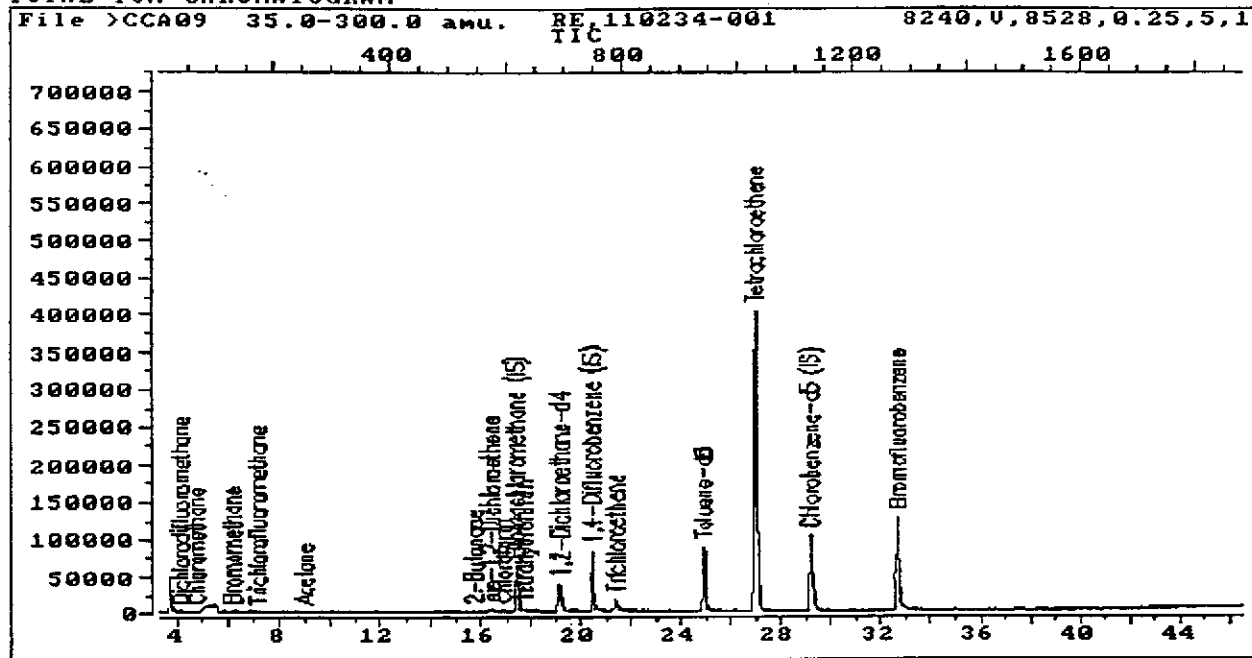
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane (IS)	17.37	128.0	64522	50.00	UG/L	97
2)	Dichlorodifluoromethane	4.10	85.0	198	3.91	UG/L	100
3)	Chloromethane	4.70	50.0	865	5.4	UG/L	100
5)	Bromomethane	6.13	94.0	2212	1.22	UG/L	83
8)	Acetone	8.99	43.0	2286	4.84	UG/L	100
12)	Trichlorofluoromethane	7.15	101.0	223	0.637	UG/L	85
16)	2-Butanone	15.71	43.0	157	2.01	UG/L	100
19)	Tetrahydrofuran	17.69	42.0	4909	7.15	UG/L	78
20)	cis-1,2-Dichloroethene	16.36	96.0	4784	6.40	UG/L	93
21)	Chloroform	16.84	83.0	2365	3.57	UG/L	83
+ 23)	1,2-Dichloroethane-d4	19.17	65.0	110306	64.25	UG/L	86
25)	*1,4-Difluorobenzene (IS)	20.41	114.0	259921	50.00	UG/L	100
30)	Trichloroethene	21.38	95.0	23584	8.51	UG/L	92
42)	*Chlorobenzene-d5 (IS)	29.17	117.0	207624	50.00	UG/L	91
+ 45)	Toluene-d8	24.88	98.0	226052	38.94	UG/L	98
47)	Tetrachloroethene	26.93	166.0	457536	143.79	UG/L	96
+ 57)	Bromofluorobenzene	32.67	95.0	208393	47.21	UG/L	84

* Compound is ISTD

internal standards

+ *surrogates*

TOTAL ION CHROMATOGRAM



Data File: >CCA09::D4
Name: RE,110234-001
Misc: 8240,V,8528,0.25,5,1, WATER

Quant Output File: ^CCA09::DB
Instrument ID: VOA 03

Id File: ID3VOW::QT

Title: IFB

Last Calibration: 930226 16:26

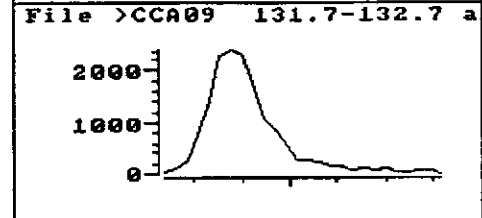
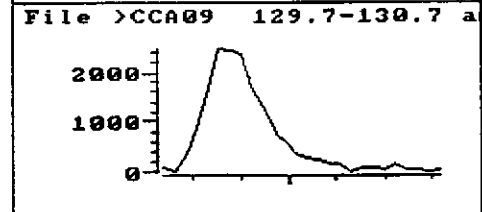
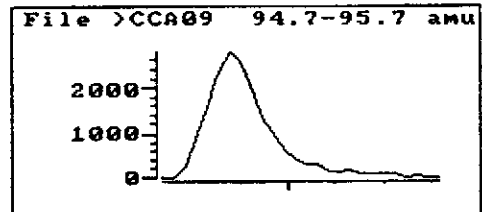
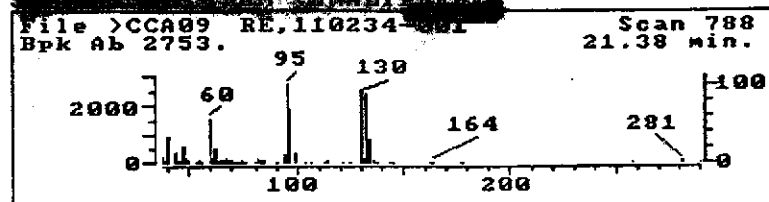
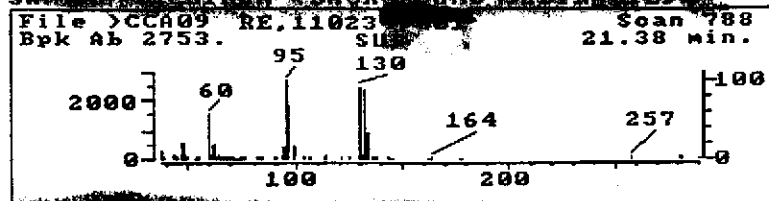
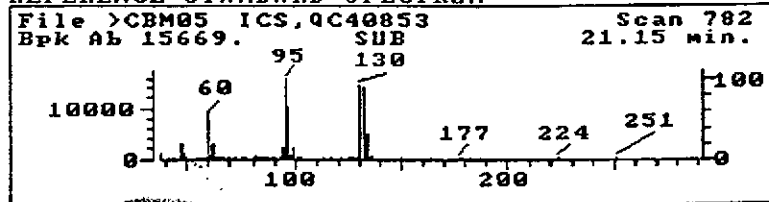
Last Qcal Time: 930310 10:57

Operator ID: AL

Quant Time : 930310 20:10

Injected at: 930310 19:17

REFERENCE STANDARD SPECTRUM

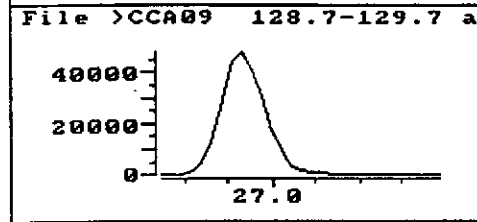
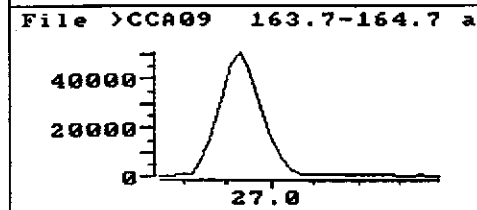
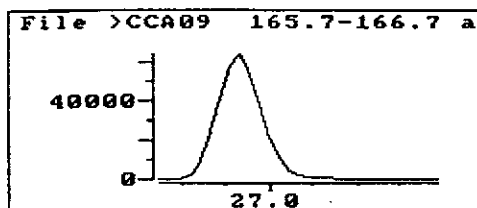
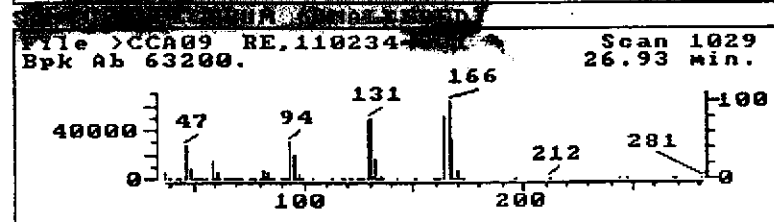
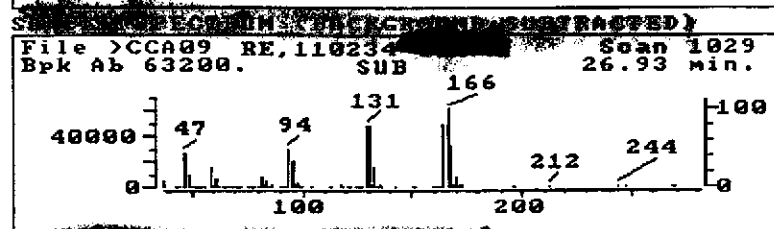
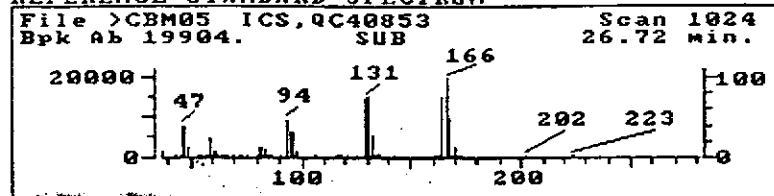


Data File: >CCA09::D4
Name: RE,110234-001
Misc: 8240,V,8528,0.25,5,1, WATER
Quant Time: 930310 20:10
Injected at: 930310 19:17
Last Qcal Time: 930310 10:57

Quant Output File: ^CCA09::DB
Instrument ID: VOA 03
Quant ID File: ID3VOW::QT
Last Calibration: 930226 16:26

Compound No : 30
Compound Name : ~~1,1,1-trichloroethene~~
Scan Number : 788
Retention Time: 21.38 min.
Quant Ion : 95.0
Area : 23584
Concentration : 0.51 UG/L
q-value : 92

REFERENCE STANDARD SPECTRUM



Data File: >CCA09::D4
Name: RE, 110234-001
Misc: 8240, V, 8528, 0.25, 5, 1, WATER
Quant Time: 930310 20:10
Injected at: 930310 19:17
Last Qcal Time: 930310 10:57

Quant Output File: ^CCA09::DB
Instrument ID: VOA 03
Quant ID File: ID3VOW::QT
Last Calibration: 930226 16:26

Compound No : 47
Compound Name : Tetrachloroethene
Scan Number : 1029
Retention Time: 26.93 min.
Quant Ion : 166.0
Area : 457536
Concentration : 143.79 UG/L
q-value : 96

QUANT REPORT

Operator ID: AL
 Output File: ^CC907::DB
 Data File: >CC907::D4
 Name: MSS,110234-002
 Misc: 8240,V,8515,5,5,1, WATER

Quant Rev: 7 Quant Time: 930309 17:59
 Injected at: 930309 17:07
 Dilution Factor: 1.00000
 Instrument ID: VOA 03

ID File: ID3VOW::QT
 Title: IFB
 Last Calibration: 930226 16:26

Last Qcal Time: 930309 10:28

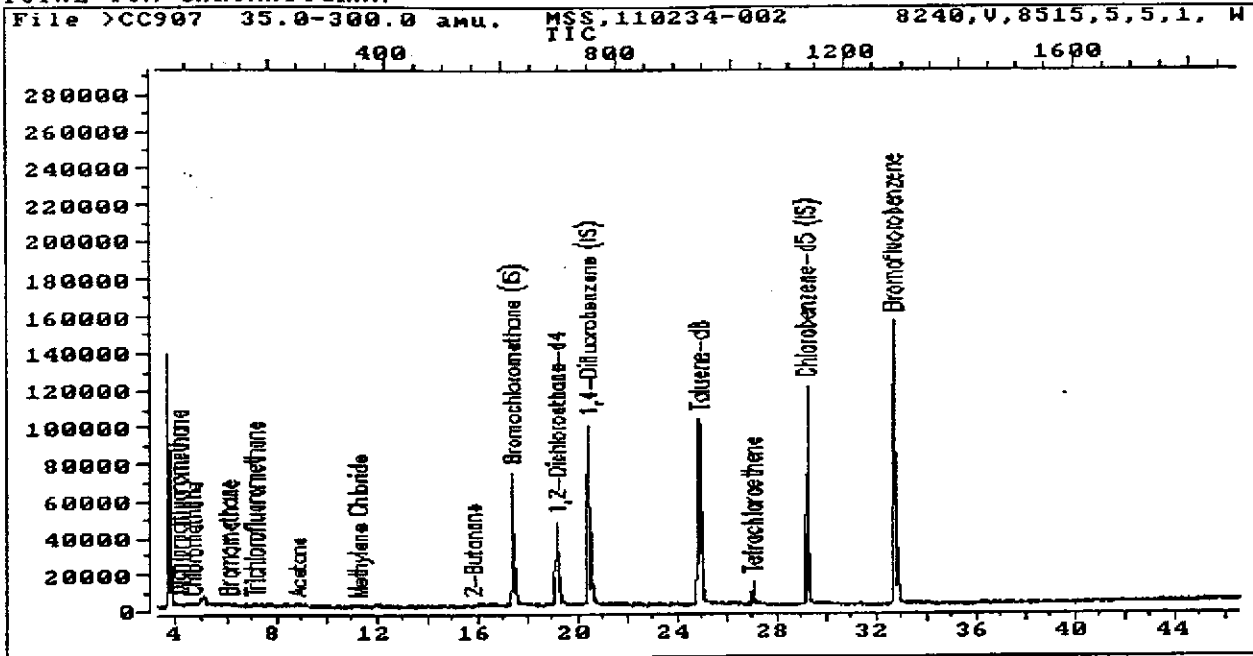
	Compound	R.T.	Q ion	Area	Conc	Units	q
	1) *Bromochloromethane (IS)	17.38	128.0	75310	50.00	UG/L	97
	2) Dichlorodifluoromethane	4.05	85.0	176	0.00	UG/L	100
	3) Chloromethane	4.64	50.0	1633	0.00	UG/L	100
	5) Bromomethane	6.07	94.0	1057^	0.00	UG/L	75
	8) Acetone	8.86	43.0	8837	10.00	UG/L	100
	12) Trichlorofluoromethane	7.11	101.0	1444	0.00	UG/L	99
	14) Methylene Chloride	11.26	84.0	2195	1.00	UG/L	77
	16) 2-Butanone	15.81	43.0	167	0.00	UG/L	100
+	23) 1,2-Dichloroethane-d4	19.18	65.0	128374	52.00	UG/L	84
	25) *1,4-Difluorobenzene (IS)	20.44	114.0	298786	50.00	UG/L	100
	42) *Chlorobenzene-d5 (IS)	29.20	117.0	233427	50.00	UG/L	90
+	45) Toluene-d8	24.91	98.0	261391	51.00	UG/L	96
	47) Tetrachloroethene	26.99	166.0	14640	0.00	UG/L	98
#	57) Bromofluorobenzene	32.68	95.0	238121	48.23	UG/L	84

* Compound is ISTD

Internal Standards

+ *Surrogates*

TOTAL ION CHROMATOGRAM



Data File: >CC907::D4
 Name: MSS,110234-002
 Misc: 8240,V,8515,5,5,1, WATER

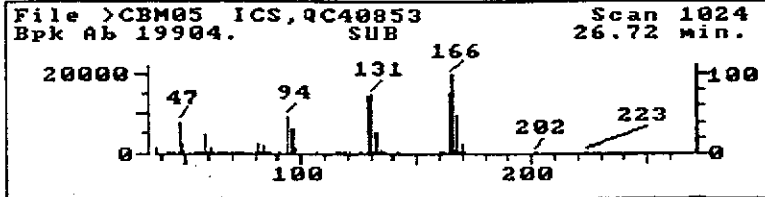
Quant Output File: ^CC907::DB
 Instrument ID: VOA 03

Id File: ID3VOW::QT
 Title: IFB
 Last Calibration: 930226 16:26

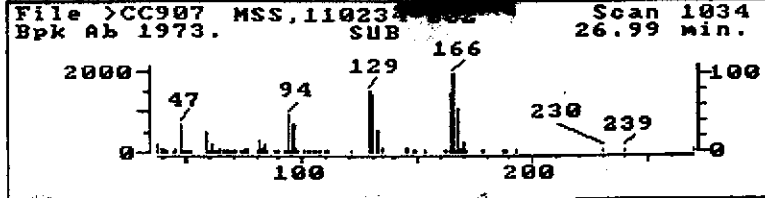
Last Qcal Time: 930309 10:28

Operator ID: AL
 Quant Time : 930309 17:59
 Injected at: 930309 17:07

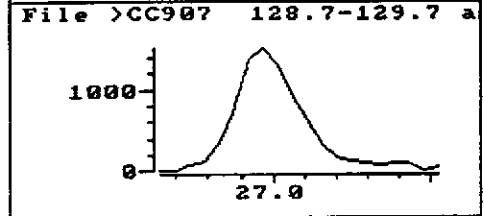
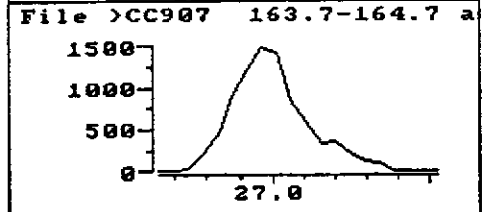
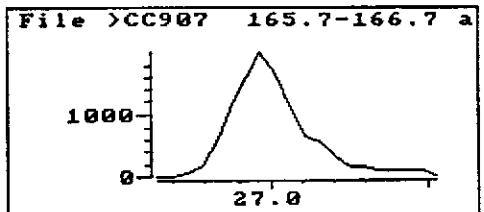
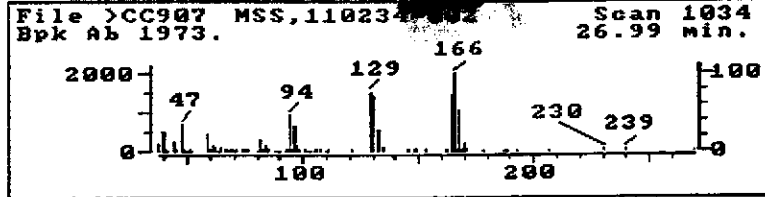
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >CC907::D4
Name: MSS, 110234-002
Misc: 8240, V, 8515, 5, 5, 1, WATER
Quant Time: 930309 17:59
Injected at: 930309 17:07
Last Qcal Time: 930309 10:28

Quant Output File: ^CC907::DB
Instrument ID: VOA 03
Quant ID File: ID3VOW::QT
Last Calibration: 930226 16:26

Compound No : 47
Compound Name : Tetrachloroethene
Scan Number : 1034
Retention Time: 26.99 min.
Quant Ion : 166.0
Area : 14640
Concentration : 4.30 UG/L
q-value : 98

QUANT REPORT

Operator ID: AL
 Output File: ^CC908::DB
 Data File: >CC908::D4
 Name: S,110234-003
 Misc: 8240,V,8515,5,5,1, WATER

Quant Rev: 7 Quant Time: 930309 19:01
 Injected at: 930309 18:09
 Dilution Factor: 1.00000
 Instrument ID: VOA 03

ID File: ID3VOW::QT
 Title: IFB
 Last Calibration: 930226 16:26

Last Qcal Time: 930309 10:28

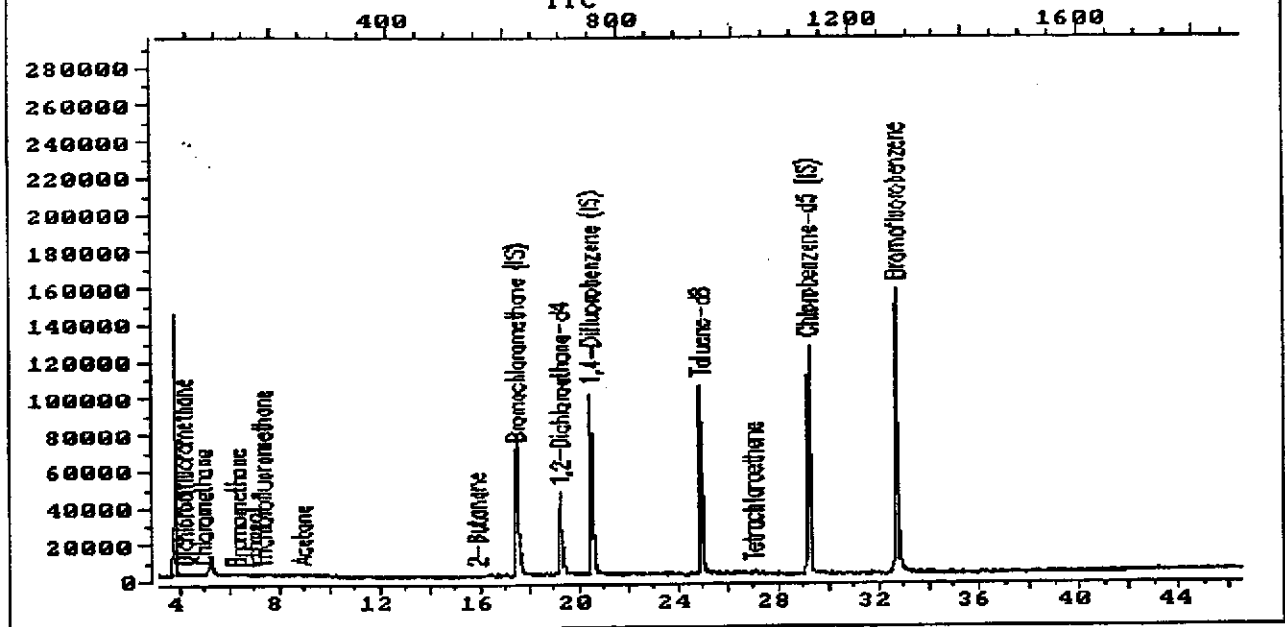
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane (IS)	17.45	128.0	76965	50.00	UG/L	9
2)	Dichlorodifluoromethane	4.18	85.0	278	5	UG/L	10
3)	Chloromethane	4.99	50.0	2305	15	UG/L	10
5)	Bromomethane	6.30	94.0	562	273	UG/L	9
7)	Ethanol	6.97	45.0	1199	1199.00	NO CALIB	10
8)	Acetone	8.93	43.0	243	373	UG/L	10
12)	Trichlorofluoromethane	7.34	101.0	176	327	UG/L	9
16)	2-Butanone	15.83	43.0	329	70	UG/L	10
+ 23)	1,2-Dichloroethane-d4	19.24	65.0	130276	5242	UG/L	9
25)	*1,4-Difluorobenzene (IS)	20.46	114.0	305986	50.00	UG/L	10
42)	*Chlorobenzene-d5 (IS)	29.17	117.0	239547	50.00	UG/L	8
+ 45)	Toluene-d8	24.91	98.0	261162	1000	UG/L	9
47)	Tetrachloroethene	26.96	166.0	3543	1000	UG/L	8
+ 57)	Bromofluorobenzene	32.68	95.0	243966	1000	UG/L	8

* Compound is ISTD
internal standards

+ *surrogates*

TOTAL ION CHROMATOGRAM

File >CC908 35.0-300.0 amu. Id 110234-003 8240,V,8515,5,5,1, W



Data File: >CC908::D4
 Name: S,110234-003
 Misc: 8240,V,8515,5,5,1, WATER

Quant Output File: ^CC908::DB
 Instrument ID: VOA 03

Id File: ID3VOW::QT
 Title: IFB
 Last Calibration: 930226 16:26

Last Qcal Time: 930309 10:28

Operator ID: AL
 Quant Time : 930309 19:01
 Injected at: 930309 18:09