IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

February 19, 1993

Mr. Harry Gregory
Roux Associates
775 Park Avenue, Suite 255
Huntington, NY 11743

Dear Mr. Gregory:

Please find enclosed the analytical results of 4 aqueous samples received at our laboratory on January 27, 1993. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definitions of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #30930-0099	Purchase Order #05511Y
Project ID: Amtrak	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC/mt

30930-0099
ROUX ASSOCIATES
SAMPLE SUMMARY

Client ID	Lab ID	Matrix	Date Collected	Date Received
TW-1	0099001	Aqueous	01/26/93	01/27/93
TW-2	0099002	Aqueous	01/26/93	01/27/93
F-B	0099003	Aqueous	01/26/93	01/27/93
T-B	0099004	Aqueous	01/26/93	01/27/93

PROJECT SUMMARY

The client requested the samples be analyzed for TCL volatile organics plus a library search for non-target compounds.

METHODOLOGY

Volatile organics were determined using purge and trap GC/MS. The instrumentation used was a Tekmar Dynamic Headspace Concentrator interfaced with a Hewlett-Packard Model 5995 GC/MS/DS.

The analyses were conducted according to NYSDEC '91 Protocols.

RESULTS

The results are presented in the following Tables.

TABLE 1.0
30930-0099
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

Aqueous

All values are ug/L.

	Sample Identification			
Dilution Factor	1.0	1.0	1.0	
Method Blank I.D.	VBLKBJ	VBLKBJ	VBLKBJ	
Compound	Method Blank	TW-1	F-B	Quantitation Limits with no Dilution
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	2J	U	U	10
Acetone	U	U	5J	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 1.1
30930-0099
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

Aqueous

All values are ug/L.

	Sample Identification					
Dilution Factor	1.0	1.0	1.0	1.0	1.0	
Method Blank I.D.	VBLKBK	VBLKBK	VBLKBK	VBLKBK	VBLKBK	
Compound	Method Blank	TW-2	T-B	TW-1 MS	TW-1 MSD	Quantitation Limits with no Dilution
Chloromethane	U	U	U	U	U	10
Bromomethane	U	U	U	U	U	10
Vinyl Chloride	U	U	U	U	U	10
Chloroethane	U	U	U	0.5J	U	10
Methylene Chloride	2J	2JB	3JB	2JB	U	10
Acetone	U	13	U	U	U	10
Carbon Disulfide	U	U	U	U	U	10
1,1-Dichloroethene	U	U	U	61	71	10
1,1-Dichloroethane	U	U	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	U	U	10
Chloroform	U	U	U	U	U	10
1,2-Dichloroethane	U	U	U	U	U	10
2-Butanone	U	U	U	U	U	10
1,1,1-Trichloroethane	U	U	U	U	U	10
Carbon Tetrachloride	U	U	U	U	U	10
Bromodichloromethane	U	U	U	U	U	10
1,2-Dichloropropane	U	U	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	U	U	10
Trichloroethene	U	U	U	54	54	10
Dibromochloromethane	U	U	U	U	U	10
1,1,2-Trichloroethane	U	U	U	U	U	10
Benzene	U	U	U	48	50	10
trans-1,3-Dichloropropene	U	U	U	U	U	10
Bromoform	U	U	U	U	U	10
4-Methyl-2-pentanone	U	U	U	U	U	10
2-Hexanone	U	U	U	U	U	10
Tetrachloroethene	U	U	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	U	U	10
Toluene	1J	1JB	U	52B	53B	10
Chlorobenzene	U	U	U	48	54	10
Ethylbenzene	U	U	U	U	U	10
Styrene	U	U	U	U	U	10
Xylene (total)	U	U	U	U	U	10

U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 2.0
30930-0099
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank VBLKBJ

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

Sample Identification: TW-1

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown C_4 alkyl benzene	24.84	160J
	Unknown alkyl benzene	22.15	140J
	Unknown aromatic	24.14	110J
	Unknown aromatic	25.03	95J
	Unknown C_3 alkyl benzene	21.44	83J
	Unknown C_4 alkyl benzene	25.42	82J
	Unknown C_4 alkyl benzene	23.40	72J
	Unknown aromatic	26.13	59J
	Unknown alkyl benzene	24.26	40J
	Unknown isomer diethyl benzene	24.42	26J

Sample Identification: F-B

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

Sample Identification: Method Blank VBLKBK

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

J - See Appendix for definition.

TABLE 2.1
30930-0099
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: TW-2

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	25.02	8J
	Unknown C_4 alkyl benzene	24.82	7J

Sample Identification: T-B

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown siloxane	25.03	9J

J - See Appendix for definition.

APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

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

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the IEA-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

IEA-Connecticut
Certification Summary (as of June 1992)

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Kansas	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	E-210/E-1185
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	252891
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43

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SAMPLE DATA SUMMARY PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3093-0099

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAK

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-0099

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
TW-1	0099001	X						
TW-2	0099002	X						
F/B	0099003	X						
T/B	0099004	X						

Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

	Previous	01/26/93	01/27/93	N/A	02/01/93
	Previous		01/27/93		02/02/93
3/5	Previous		01/27/93		02/01/93
3/6	Previous		01/27/93		02/02/93

SDG NARRATIVE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

05

30930-0099
ROUX ASSOCIATES

SDG Narrative

Volatile Organics - No problems were encountered.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

Feb. 19, 1993
Date

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F-B 023

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2187.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

F-B

024

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2187.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:Q07-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
10.					
11.					
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29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-B

022

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2201.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

T-B

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2201.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

Number TICs found: 1 BAS 02/11/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown SILOXANE	25.03	9	J
2.					
3.					
4.					
5.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-1

033

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2181.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2181.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN C4 ALKYLBENZENE	24.84	160	J
2.		UNKNOWN ALKYLBENZENE	22.15	140	J
3.		UNKNOWN AROMATIC	24.14	110	J
4.		UNKNOWN AROMATIC	25.03	95	J
5.		UNKNOWN C3 ALKYLBENZENE	21.44	83	J
6.		UNKNOWN C4 ALKYLBENZENE	25.42	82	J
7.		UNKNOWN C4 ALKYLBENZENE	23.40	72	J
8.		UNKNOWN AROMATIC	26.13	59	J
9.		UNKNOWN ALKYLBENZENE	24.26	40	J
10.		UNKNOWN ISOMER DIETHYLBENZ	24.42	26	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
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30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-2 957

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2196.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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	1	JB
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.

TW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2196.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

RAS 02/11/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	25.02	8	J
2.		UNKNOWN C4 ALKYLBENZENE	24.82	7	J
3.					
4.					
5.					
6.					
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8.					
9.					
10.					
11.					
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2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKBJ	96	90	88		0
02	TW-1	97	97	81		0
03	F-B	95	98	90		0
04	MSBTW-1	96	99	66*		1
05	VBLKBK	104	112	84		0
06	TW-2	94	110	91		0
07	TW-1MS	103	118*	82		1
08	TW-1MSD	106	123*	95		1
09	QCCHKSTD	98	113	86		0
10	T-B	97	115	85		0
11						
12						
13						
14						
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix Spike - EPA Sample No.: TW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	61	122	59-172
Trichloroethene	50	0	54	108	62-137
Benzene	50	0	48	96	66-142
Toluene	50	0	52	104	59-139
Chlorobenzene	50	0	48	96	60-133

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	71	142	15	22	59-172
Trichloroethene	50	54	108	0	24	62-137
Benzene	50	50	100	4	21	66-142
Toluene	50	53	106	2	21	59-139
Chlorobenzene	50	54	108	12	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 0099 SAS No.: _____ SDG No.: 20099

Matrix Spike - EPA Sample No.: MSB TW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MSB CONCENTRATION (ug/L)	MSB % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	67	134 *	61-145
Trichloroethene			50	100	71-120
Benzene			46	92	76-127
Toluene			47	94	76-125
Chlorobenzene			51	102	75-130
					(75-125)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene					14	61-145
Trichloroethene					14	71-120
Benzene					11	76-127
Toluene					13	76-125
Chlorobenzene					13	75-130

PAS 02/11/93

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: _____ out of _____ outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHKSTD 135

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001STD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2200.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	41	
74-83-9	Bromomethane	40 ~~16~~	
75-01-4	Vinyl Chloride	41	
75-00-3	Chloroethane	42 ~~9~~	~~J~~
75-09-2	Methylene Chloride	43	B
67-64-1	Acetone	43	
75-15-0	Carbon Disulfide	42	
75-35-4	1,1-Dichloroethene	40	
75-34-3	1,1-Dichloroethane	41	
540-59-0	1,2-Dichloroethene (total)	82	
67-66-3	Chloroform	45	
107-06-2	1,2-Dichloroethane	42	
78-93-3	2-Butanone	42	
71-55-6	1,1,1-Trichloroethane	50	
56-23-5	Carbon Tetrachloride	52	
75-27-4	Bromodichloromethane	53	
78-87-5	1,2-Dichloropropane	53	
10061-01-5	cis-1,3-Dichloropropene	49 ~~19~~	
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	54	
79-00-5	1,1,2-Trichloroethane	51	
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	55 ~~22~~	
75-25-2	Bromoform	59	
108-10-1	4-Methyl-2-Pentanone	45	
591-78-6	2-Hexanone	41	
127-18-4	Tetrachloroethene	50	
79-34-5	1,1,2,2-Tetrachloroethane	56	
108-88-3	Toluene	49	B
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	49	
100-42-5	Styrene	50	
1330-20-7	Xylene (total)	48	

LHD 02/18/93

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKBJ

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: B2180.D Lab Sample ID: VBLKBJ

Date Analyzed: 02/01/93 Time Analyzed: 1525

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TW-1	0099001	B2181.D	1614
02	F-B	0099003	B2187.D	1948
03	MSBTW-1	0099001MSB	B2192.D	2236
04				
05				
06				
07				
08				
09				
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11				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBJ

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2180.D

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

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

VBLKBJ

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2180.D

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

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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10.					
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4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKBK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: B2195.D Lab Sample ID: VBLKBK

Date Analyzed: 02/02/93 Time Analyzed: 1028

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TW-2	0099002	B2196.D	1134
02	TW-1MS	0099001MS	B2198.D	1238
03	TW-1MSD	0099001MSD	B2199.D	1310
04	QCCHKSTD	0099001STD	B2200.D	1342
05	T-B	0099004	B2201.D	1418
06				
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09				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2195.D

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

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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	1	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.

VBLKBK 17

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2195.D

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

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID (Standard): B2179.D Date Analyzed: 02/01/93

Instrument ID: HP5995B Time Analyzed: 1427

GC Column: 007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CBZ) AREA	#	RT	#
	12 HOUR STD	26503		9.59		151410		11.91		122863		19.19	
	UPPER LIMIT	53006		10.09		302820		12.41		245726		19.69	
	LOWER LIMIT	13252		9.09		75705		11.41		61432		18.69	
	EPA SAMPLE No.												
01	VBLKBJ	25013		9.53		152347		11.82		124346		19.21	
02	TW-1	26529		9.93		147381		12.12		119555		19.28	
03	F-B	24020		9.57		142741		11.89		121458		19.16	
04	MSBTW-1	32902		9.62		152105		11.94		121815		19.24	
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID (Standard): B2194.D Date Analyzed: 02/02/93

Instrument ID: HP5995B Time Analyzed: 0933

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CBZ) AREA	#	RT	#
	12 HOUR STD	29344		9.57		157412		11.89		127158		19.22	
	UPPER LIMIT	58688		10.07		314824		12.39		254316		19.72	
	LOWER LIMIT	14672		9.07		78706		11.39		63579		18.72	
	EPA SAMPLE No.												
01	VBLKBK	32213		9.63		154246		11.95		122760		19.19	
02	TW-2	29937		9.65		169419		11.97		136166		19.22	
03	TW-1MS	29809		9.62		143150		11.94		111807		19.24	
04	TW-1MSD	25866		9.61		142394		11.93		109735		19.21	
05	QCCHKSTD	30662		9.58		136548		11.90		117042		19.23	
06	T-B	29949		9.62		146927		11.94		119156		19.20	
07													
08													
09													
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19													
20													
21													
22													

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

SAMPLE DATA PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

APPENDIX F
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3093-0099

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAK

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-0099

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
TW-1	0099001	X						
TW-2	0099002	X						
F/B	0099003	X						
T/B	0099004	X						

Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE [illegible] ANALYSIS SUMMARY
VOA - TCL + [illegible]
ANALYSIS

JOB # : [illegible]

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
TW-1	AQUEOUS	01/26/93	01/27/93	N/A	02/01/93
TW-2	AQUEOUS	↓	01/27/93	↓	02/02/93
F/B	AQUEOUS	↓	01/27/93	↓	02/01/93
T/B	AQUEOUS	↓	01/27/93	↓	02/02/93

SDG NARRATIVE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

05

30930-0099
ROUX ASSOCIATES

SDG Narrative

Volatile Organics - No problems were encountered.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

Feb. 19, 1993
Date

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

CLIENT CHAINS OF CUSTODY

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

IEA C# 3093-0099

ROUX

CHAIN OF CUSTODY

№ 013.. Y

ROUX ASSOCIATES INC
Consulting Ground-Water Geologists & Engineers
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: Amtrak | Sunnyside
PROJECT NUMBER: ~~05571~~ 055714
PROJECT LOCATION: Sunnyside, Queens, N.Y.
SAMPLER(S): C. Clark, D. Keehan

ANALYSES — PAGE 1 OF 1

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	VOCs - 8240				TOTAL BOTTLES	NOTES
TW-1	1/26/93	1430	H_2O	✓			001	7	includes MS/MSD
TW-2	"	15:50	"	✓			002	3	
F/B	"	15:20	"	✓			003	2	
T/B	"		"	✓			004	2	

RELINQUISHED BY: (SAMPLER'S SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	Roux Assoc.	1/26/93	5:30 PM	(Y) OR N					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature]	IEA C	1/27/93	1000	(Y)

DELIVERY METHOD: (FED) EX # 596564992
ANALYTICAL LABORATORY: IEA - CT

COMMENTS: Project # 055714, not as marked on sample bottles (05526Y) [signature]

LABORATORY CHAINS OF CUSTODY

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

IEA, I. - CT
Internal Chain of Custody Form

IEA Job #: 3093 0099

ent : Roux

Case # : —
Airbill #: 576 5642 992 ~~993~~ 992 EN GK

stody Seal (present) / absent
(intact) / not intact

Sample #s: 001-004
Location : 34

eld Chain Custody (present) / absent

0099

ple Tags : present / (absent)
: listed / not listed
Forms : present / (absent)

Sample Custodian: EN Johnson (print) [signature] (signature) Date/Time: 1/27/93 1600

oratory ple Number	Removed By (Full Signature)	Date	Time	Reason	Returned By (Full Signature)	Date	Time	Returned To Ref. #
-4	[signature]	2/1	16:05	USA	used			
2,4	Patty Sea[illegible]	2/2	11:15	VOA	Used			

009

ORGANICS DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

VOLATILE DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK
PO NUMBER	05511Y
SDG #:	Z0099
IEA ID:	30930-0099

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKBJ	96	90	88		0
02	TW-1	97	97	81		0
03	F-B	95	98	90		0
04	MSBTW-1	96	99	66*		1
05	VBLKBK	104	112	84		0
06	TW-2	94	110	91		0
07	TW-1MS	103	118*	82		1
08	TW-1MSD	106	123*	95		1
09	QCCHKSTD	98	113	86		0
10	T-B	97	115	85		0
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix Spike - EPA Sample No.: TW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	61	122	59-172
Trichloroethene	50	0	54	108	62-137
Benzene	50	0	48	96	66-142
Toluene	50	0	52	104	59-139
Chlorobenzene	50	0	48	96	60-133

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	71	142	15	22	59-172
Trichloroethene	50	54	108	0	24	62-137
Benzene	50	50	100	4	21	66-142
Toluene	50	53	106	2	21	59-139
Chlorobenzene	50	54	108	12	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

014

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 0099 SAS No.: _____ SDG No.: 20099

Matrix Spike - EPA Sample No.: MSB TW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MSB CONCENTRATION (ug/L)	MSB % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	67	134 *	61-145
Trichloroethene			50	100	71-120
Benzene			46	92	76-127
Toluene			47	94	76-125
Chlorobenzene			51	102	75-130
					(75-125)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene					14	61-145
Trichloroethene					14	71-120
Benzene					11	76-127
Toluene					13	76-125
Chlorobenzene					13	75-130

PAS 02/11/93

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: _____ out of _____ outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKBJ

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: B2180.D Lab Sample ID: VBLKBJ

Date Analyzed: 02/01/93 Time Analyzed: 1525

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TW-1	0099001	B2181.D	1614
02	F-B	0099003	B2187.D	1948
03	MSBTW-1	0099001MSB	B2192.D	2236
04				
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06				
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKBK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: B2195.D Lab Sample ID: VBLKBK

Date Analyzed: 02/02/93 Time Analyzed: 1028

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TW-2	0099002	B2196.D	1134
02	TW-1MS	0099001MS	B2198.D	1238
03	TW-1MSD	0099001MSD	B2199.D	1310
04	QCCHKSTD	0099001STD	B2200.D	1342
05	T-B	0099004	B2201.D	1418
06				
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COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: BB643.D BFB Injection Date: 02/01/93

Instrument ID: HP5995B BFB Injection Time: 0843

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.2
75	30.0 - 66.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	86.8
175	4.0 - 9.0% of mass 174	6.3 (7.3)1
176	93.0 - 101.0% of mass 174	87.5 (100.8)1
177	5.0 - 9.0% of mass 176	5.6 (6.4)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	B2173.D	02/01/93	0919
02	VSTD020	VSTD020	B2174.D	02/01/93	1019
03	VSTD050	VSTD050	B2175.D	02/01/93	1105
04	VSTD100	VSTD100	B2176.D	02/01/93	1136
05	VSTD200	VSTD200	B2178.D	02/01/93	1240
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: BB644.D BFB Injection Date: 02/01/93

Instrument ID: HP5995B BFB Injection Time: 1355

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.3
75	30.0 - 66.0% of mass 95	47.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	84.4
175	4.0 - 9.0% of mass 174	6.2 (7.3)1
176	93.0 - 101.0% of mass 174	83.9 (99.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.4)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	B2179.D	02/01/93	1427
02	VBLKBJ	VBLKBJ	B2180.D	02/01/93	1525
03	TW-1	0099001	B2181.D	02/01/93	1614
04	F-B	0099003	B2187.D	02/01/93	1948
05	MSBTW-1	0099001MSB	B2192.D	02/01/93	2236
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

019

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID: BB646.D BFB Injection Date: 02/02/93

Instrument ID: HP5995B BFB Injection Time: 0902

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.9
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	88.8
175	4.0 - 9.0% of mass 174	5.8 (6.5)1
176	93.0 - 101.0% of mass 174	86.6 (97.5)1
177	5.0 - 9.0% of mass 176	5.7 (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	B2194.D	02/02/93	0933
02	VBLKBK	VBLKBK	B2195.D	02/02/93	1028
03	TW-2	0099002	B2196.D	02/02/93	1134
04	TW-1MS	0099001MS	B2198.D	02/02/93	1238
05	TW-1MSD	0099001MSD	B2199.D	02/02/93	1310
06	QCCHKSTD	0099001STD	B2200.D	02/02/93	1342
07	T-B	0099004	B2201.D	02/02/93	1418
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09					
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22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

023

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID (Standard): B2179.D Date Analyzed: 02/01/93

Instrument ID: HP5995B Time Analyzed: 1427

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	26503	9.59	151410	11.91	122863	19.19
	UPPER LIMIT	53006	10.09	302820	12.41	245726	19.69
	LOWER LIMIT	13252	9.09	75705	11.41	61432	18.69
	EPA SAMPLE No.						
01	VBLKBJ	25013	9.53	152347	11.82	124346	19.21
02	TW-1	26529	9.93	147381	12.12	119555	19.28
03	F-B	24020	9.57	142741	11.89	121458	19.16
04	MSBTW-1	32902	9.62	152105	11.94	121815	19.24
05							
06							
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18							
19							
20							
21							
22							

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

021

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Lab File ID (Standard): B2194.D Date Analyzed: 02/02/93

Instrument ID: HP5995B Time Analyzed: 0933

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	29344	9.57	157412	11.89	127158	19.22
	UPPER LIMIT	58688	10.07	314824	12.39	254316	19.72
	LOWER LIMIT	14672	9.07	78706	11.39	63579	18.72
	EPA SAMPLE No.						
01	VBLKBK	32213	9.63	154246	11.95	122760	19.19
02	TW-2	29937	9.65	169419	11.97	136166	19.22
03	TW-1MS	29809	9.62	143150	11.94	111807	19.24
04	TW-1MSD	25866	9.61	142394	11.93	109735	19.21
05	QCCHKSTD	30662	9.58	136548	11.90	117042	19.23
06	T-B	29949	9.62	146927	11.94	119156	19.20
07							
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22							

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

INSTRUMENT DETECTION LIMITS

Instrument B
Date: 08/18/92

UNITS: UG/L

	IDL
Chloromethane	4
Bromomethane	2
Vinyl Chloride	1
Chloroethane	3
Methylene Chloride	1
Acetone	1
Carbon Disulfide	2
1,1-Dichloroethene	1
1,1-Dichloroethane	1
1,2-Dichloroethene (total)	2
Chloroform	2
1,2-Dichloroethane	1
2-Butanone	1
1,1,1-Trichloroethane	1
Carbon Tetrachloride	1
Vinyl Acetate	1
Bromodichloromethane	1
1,2-Dichloropropane	1
cis-1,3-Dichloropropene	1
Trichloroethene	1
Dibromochloromethane	2
1,1,2-Trichloroethane	1
Benzene	1
trans-1,3-Dichloropropene	1
Bromoform	1
2-Methyl-2-Pentanone	1
2-Hexanone	1
Tetrachloroethene	1
1,1,2,2-Tetrachloroethane	1
Toluene	1
Chlorobenzene	1
Ethylbenzene	1
Styrene	1
Xylene (total)	4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F-B 023

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2187.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

F-B

024

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2187.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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26.					
27.					
28.					
29.					
30.					

QUANT REPORT

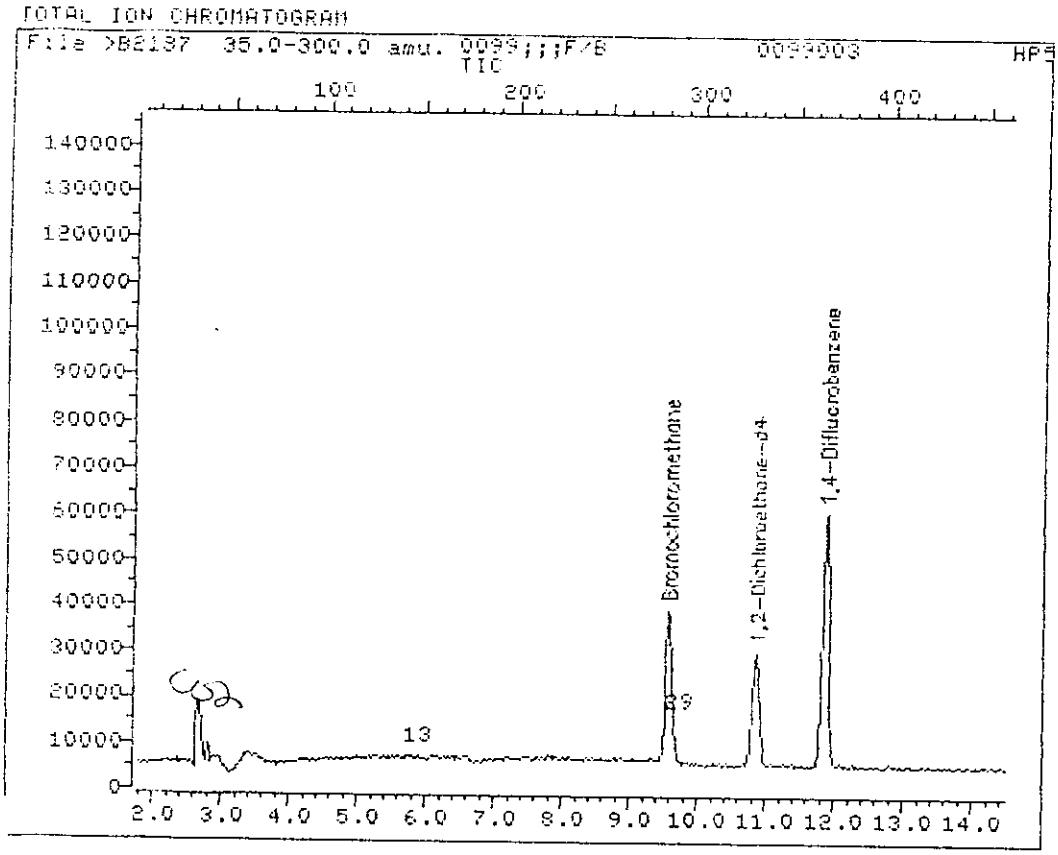
Operator ID: MSB Quant Rev: 6 Quant Time: 930201 20:16
Output File: ^B2187::QT Injected at: 930201 19:48
Data File: >B2187::B2 Dilution Factor: 1.00000
Name: 0099;;;F/B
Misc: 0099003 HP5995 B ;;;LLW;OF1 ;B1887

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.57	127.8	24020	50.00	ug/L	88
3)	Acetone	5.81	42.8	3397	5.40	ug/L	88
~~27)~~	~~Chloroform~~	~~9.65~~	~~82.8~~	~~3232^~~	~~2.26~~	~~ug/L~~	~~62~~
31)	1,2-Dichloroethane-d4	10.87	64.8	57519	44.78	ug/L	82
35)	*1,4-Difluorobenzene	11.89	113.8	142741	50.00	ug/L	94
59)	*Chlorobenzene-d5	19.16	116.8	121458	50.00	ug/L	95
63)	Toluene-d8	15.45	97.8	148717	47.54	ug/L	92
93)	Bromofluorobenzene	21.65	173.9	75299	48.89	ug/L	31

* Compound is ISTD

PAS 02/10/93

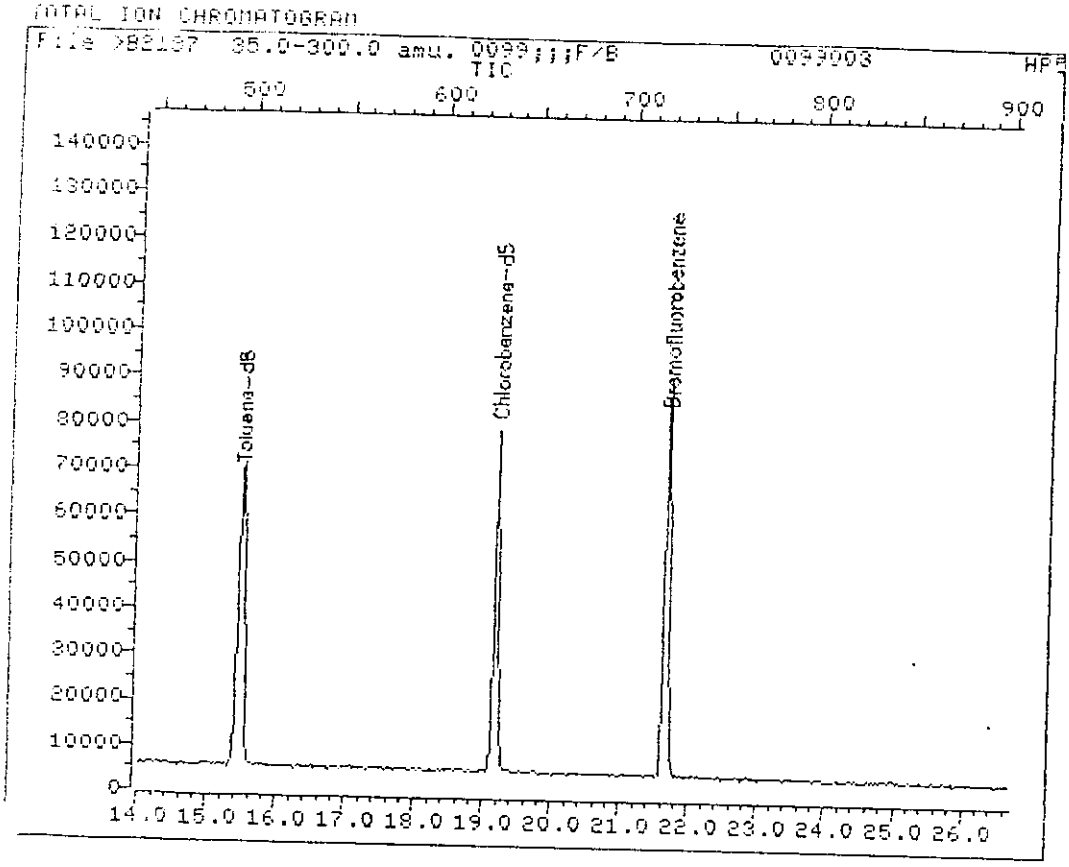


Data File: >B2187::B2 Quant Output File: ^B2187::QT
Name: 0099;;;F/B
Misc: 0099003 HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930201 20:16
Injected at: 930201 19:48

TIC page 1 of 2



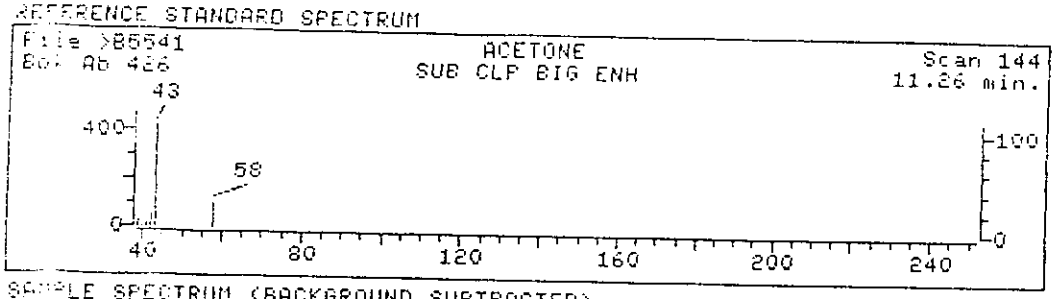
Data File: >B2187::B2 Quant Output File: ^B2187::QT
Name: 0099;;;F/B
Misc: 0099003 HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

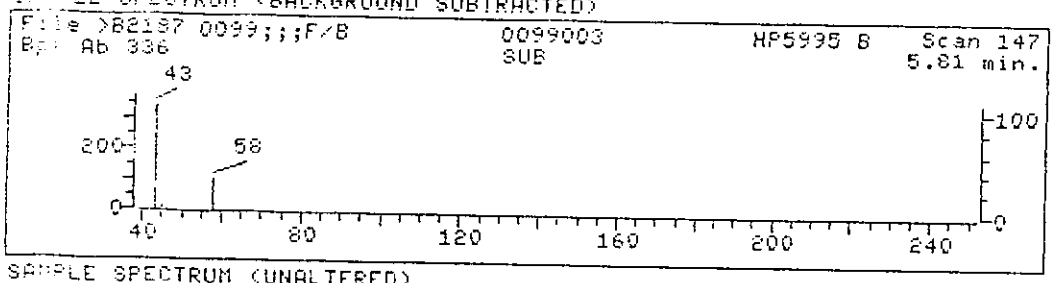
Operator ID: MSB
Quant Time: 930201 20:16
Injected at: 930201 19:48

TIC page 2 of 2

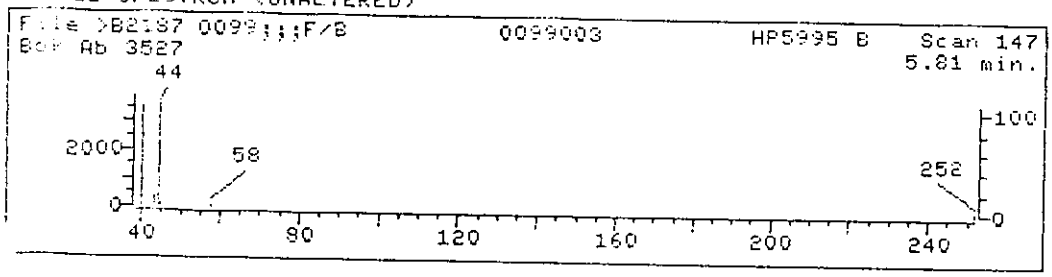
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2187::B2 Quant Output File: ^B2187::QT
Name: 0099;;;F/B
Misc: 0099003 HP5995 B ;;;LLW;DF1 ;B1887
Quant Time: 930201 20:16 Quant ID File: I_IFBW::N1
Injected at: 930201 19:48 Last Calibration: 930201 15:05

Compound No: 13
Compound Name: Acetone
Scan Number: 147
Retention Time: 5.81 min.
Quant Ion: 42.8
Area: 3397
Concentration: 5.40 ug/L
q-value: 88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-B

029

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2201.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

T-B

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2201.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~0~~ 1 RAS 02/11/93

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	25.03	9	J
2.					
3.					
4.					
5.					
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27.					
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29.					
30.					

QUANT REPORT

Operator ID: MSA
Output File: ^B2201::QT
Data File: >B2201::B2
Name: 0099;;;TB
Misc: 0099004 HP5995 B ;;;LLW;DF1 ;B1888

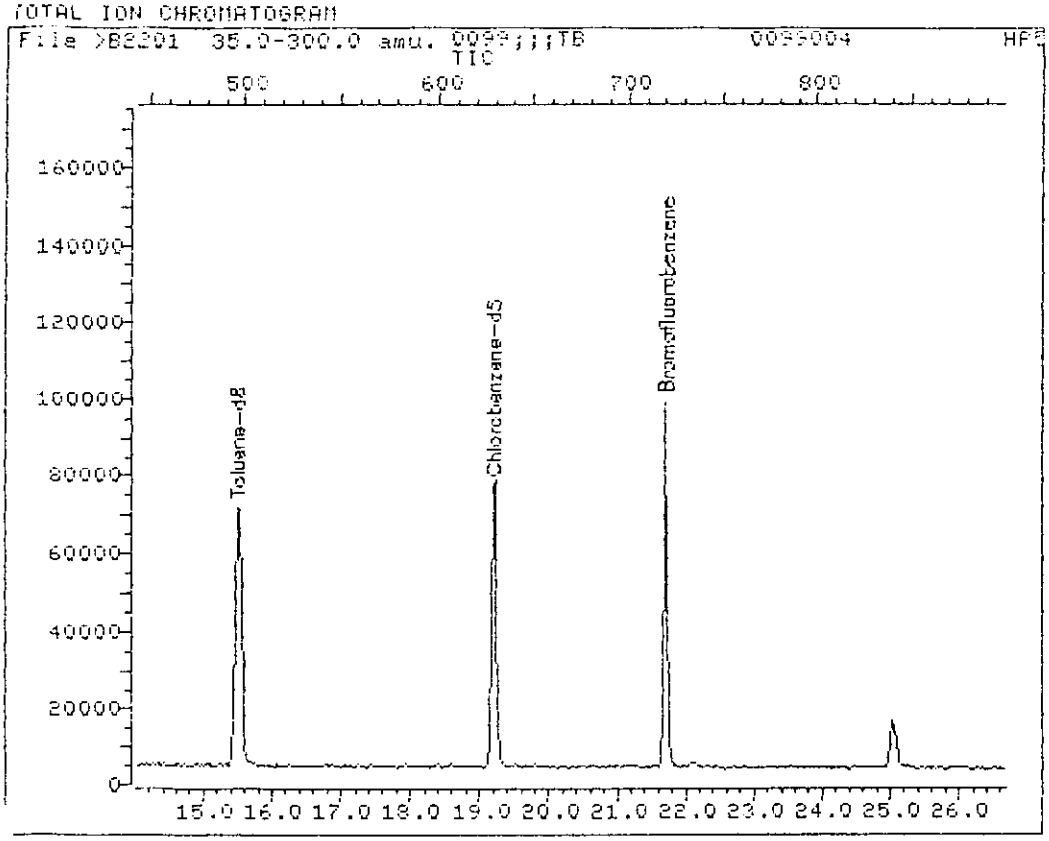
Quant Rev: 6 Quant Time: 930202 14:46
Injected at: 930202 14:18
Dilution Factor: 1.00000

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.62	127.8	29949	50.00	ug/L	90
10)	Methylene Chloride	6.60	83.8	2077	3.16	ug/L	93
~~27)~~	~~Chloroform~~	~~9.67~~	~~82.8~~	~~2306^~~	~~1.29~~	~~ug/L~~	~~41~~
31)	1,2-Dichloroethane-d4	10.91	64.8	61900	42.63	ug/L	88
35)	*1,4-Difluorobenzene	11.94	113.8	146927	50.00	ug/L	96
55)	*Chlorobenzene-d5	19.20	116.8	119156	50.00	ug/L	96
63)	Toluene-d8	15.50	97.8	149310	48.35	ug/L	92
93)	Bromofluorobenzene	21.71	173.9	72583	57.35	ug/L	78

* Compound is ISTD

PAS 02/10/93

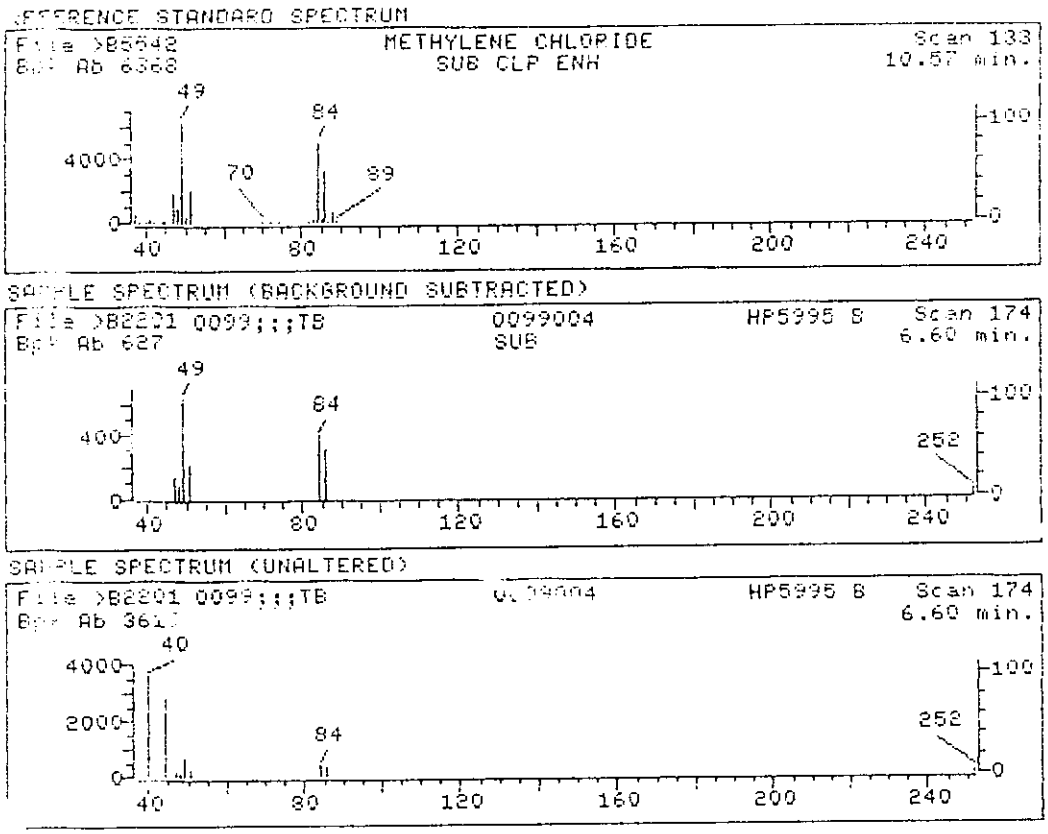


Data File: >B2201::B2 Quant Output File: ^B2201::QT
Name: 0099;;;TB
Misc: 0099004 HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSA
Quant Time: 930202 14:46
Injected at: 930202 14:18

TIC page 2 of 2



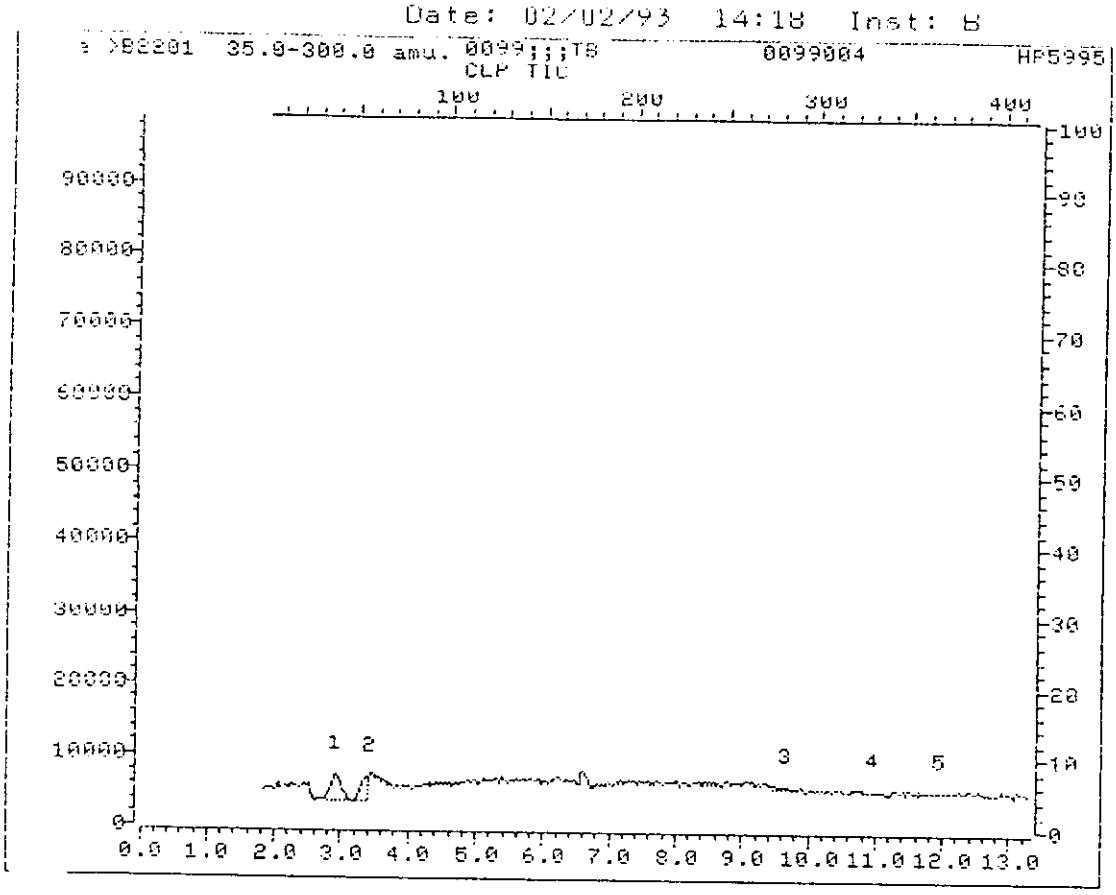
Data File: >B2201::B2 Quant Output File: ^B2201::QT
Name: 0099;;;TB
Misc: 0099004 HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 14:46 Quant ID File: I_IFBW::N1
Injected at: 930202 14:18 Last Calibration: 930202 10:13

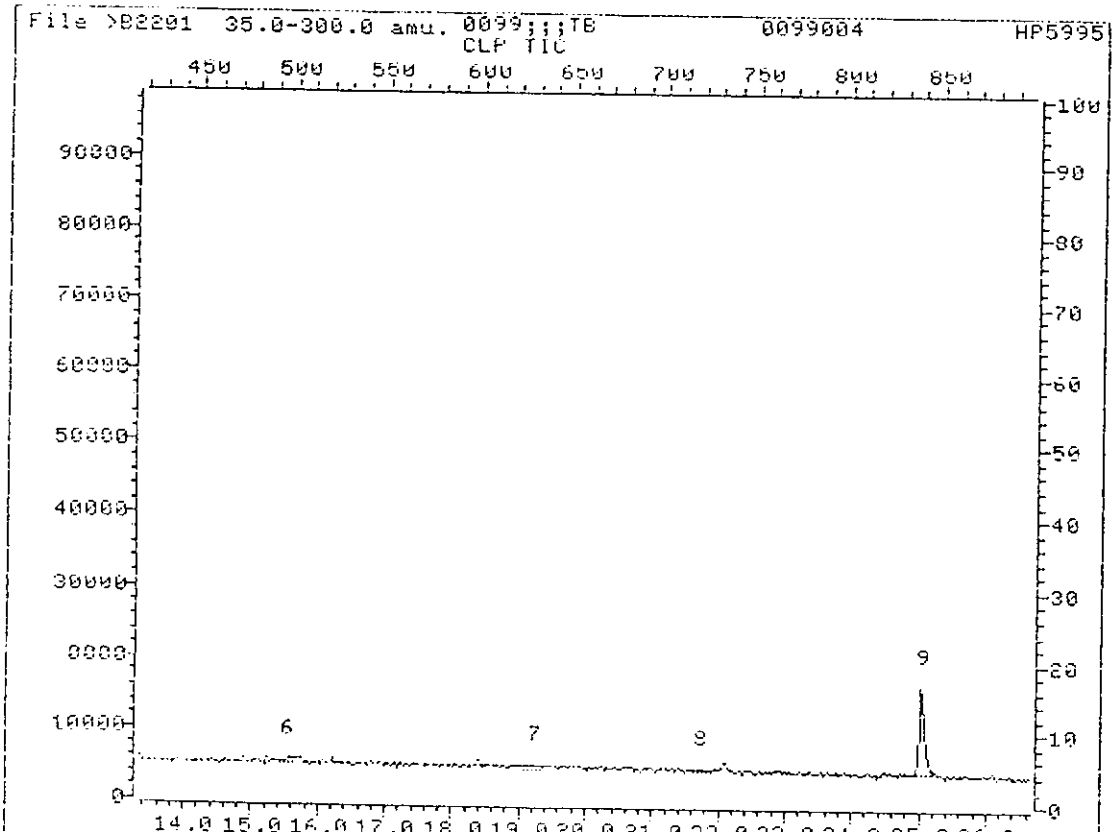
Compound No: 10
Compound Name: Methylene Chloride
Scan Number: 174
Retention Time: 6.60 min.
Quant Ion: 83.8
Area: 2077
Concentration: 3.16 ug/L
q-value: 93

. . data file header from : >B2201

```
Sample: 0099;;;1B              Operator: MSA        MS            2/02/93 14:18
Misc  : 0099004           HP5995 B ;;;LLW;OF1     ;B1888
Sys. #:     2  MS model:  96  SW/HW rev.: 1A  ALS # :  0
  Method file: M_BCAP     Tuning file: T_B      No. of extra records:  2
 Source temp.:  220   Analyzer temp.:  240     Transfer line temp. : 185

      Chromatographic temperatures :  30.   100.   200.     0.     0.
      Chromatographic times, min.  :  4.0    0.0     .3    0.0    0.0
      Chromatographic rate, deg/min:  5.0   12.0    0.0    0.0    0.0
```


Date: 02/02/93 14:18 Inst: B
File >B2201 35.0-300.0 amu. 0099;;;TB 0099004 HP5995
CLP TIC
1 2 3 4 5


File >B2201 35.0-300.0 amu. 0099;;;TB 0099004 HP5995
CLP TIC
6 7 8 9

Date: 02/02/93 14:18 Inst: B

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
TCM2	2.88	43547.	10.	1.	1.00
9.	25.03	72646.	9.	3.	1.00
TCM3	3.37	28515.	6.	1.	1.00

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
BROMOCHLOROMETHANE	9.62	228375.	0.00	10.76	7.6
1,4-DIFLUOROBENZENE	11.91	368816.	10.76	15.57	2.5
CHLOROBENZENE-D5	19.23	398747.	15.57	25.03	3.3

ISTD peaks found:	3
Surrogate peaks found:	3
Quant target peaks expected:	2
Target peaks matched:	0
Total TIC identified:	3

CS : 11:54 AM THU., 11 FEB., 1993

TB

n't interpret this parameter... Perhaps you have mistyped
.e run string or have forgotten the order of the run string.

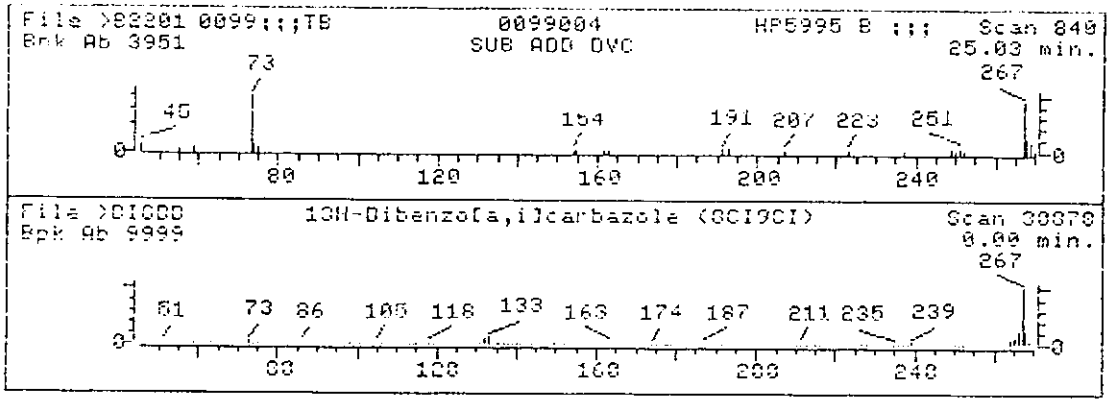
RPN error for command: RSE58
RPN error: -5
Bad record length RSE

1. 13H-Dibenzo[a,i]carbazole (8CI9CI) 267 C20H13N

Sample file: >B2201 Spectrum #: 840
Search speed: 1 Tilting option: N No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IO
1.	35*	239645	30878	"BIGDB	24	104	3	0	91	26	14	12

Peak#: 9 Area: 72646. Est Conc: 9. Date: 02/02/93 14:18 Inst: B



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-1 033

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2181.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

TW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2181.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 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: 10

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN C4 ALKYLBENZENE	24.84	160	JNB
2.		UNKNOWN ALKYLBENZENE	22.15	140	J
3.		UNKNOWN AROMATIC	24.14	110	J
4.		UNKNOWN AROMATIC	25.03	95	J
5.		UNKNOWN C3 ALKYLBENZENE	21.44	83	JNB
6.		UNKNOWN C4 ALKYLBENZENE	25.42	82	JNB
7.		UNKNOWN C4 ALKYLBENZENE	23.40	72	JNB
8.		UNKNOWN AROMATIC	26.13	59	J
9.		UNKNOWN ALKYLBENZENE	24.26	40	J
10.		UNKNOWN ISOMER DIETHYLBENZENE	24.42	26	JNB
11.					
12.					
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QUANT REPORT

Operator ID: MSB
Output File: ^B2181::QT
Data File: >B2181::B2
Name: 0099;;;TW-1
Misc: 0099001 HP5995 B ;;;LLW;OF1 ;B1887

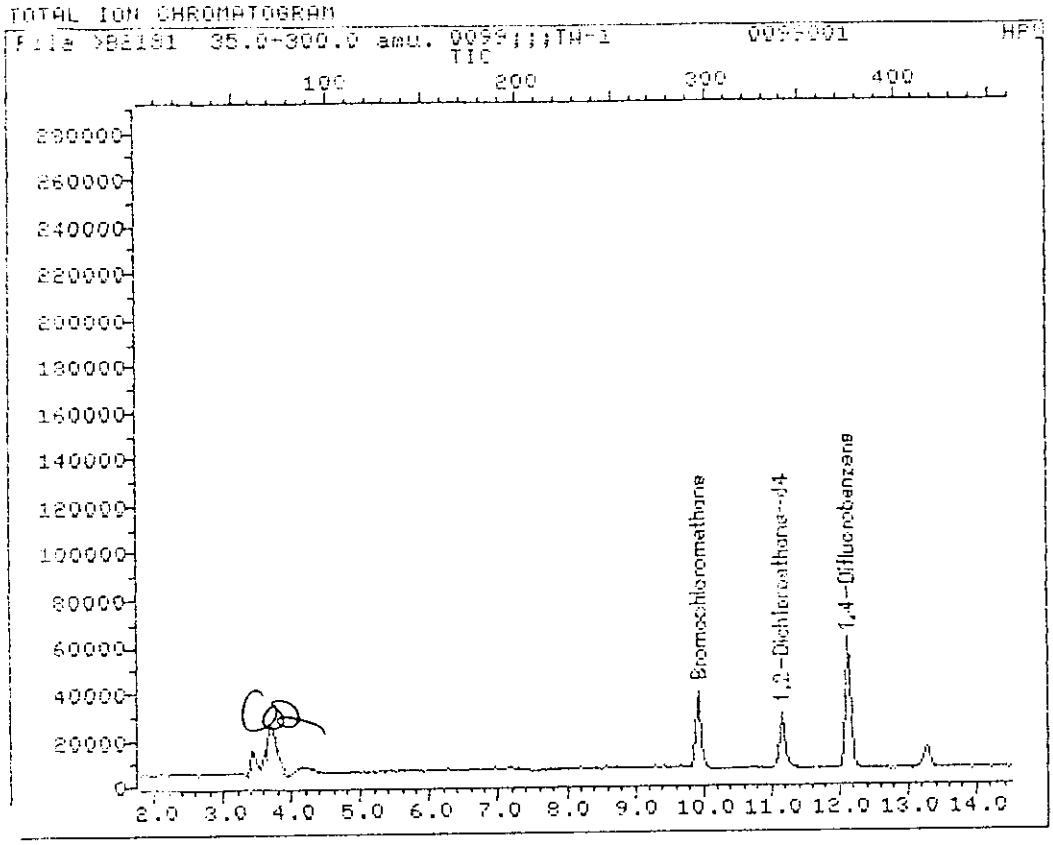
Quant Rev: 6 Quant Time: 930201 16:41
Injected at: 930201 16:14
Dilution Factor: 1.00000

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	Q
1)	*Bromochloromethane	9.93	127.8	26729M	50.00	ug/L	
31)	1,2-Dichloroethane-d4	11.15	64.9	57?82	40.57	ug/L	91
35)	*1,4-Difluorobenzene	12.12	113.8	147381	50.00	ug/L	92
59)	*Chlorobenzene-d5	19.28	116.8	11?555	50.00	ug/L	94
67)	Toluene-d8	15.65	97.8	149?17	48.30	ug/L	90
93)	Bromofluorobenzene	21.71	173.9	73?78	48.33	ug/L	66

* Compound is ISTD

PAS 02/11/93

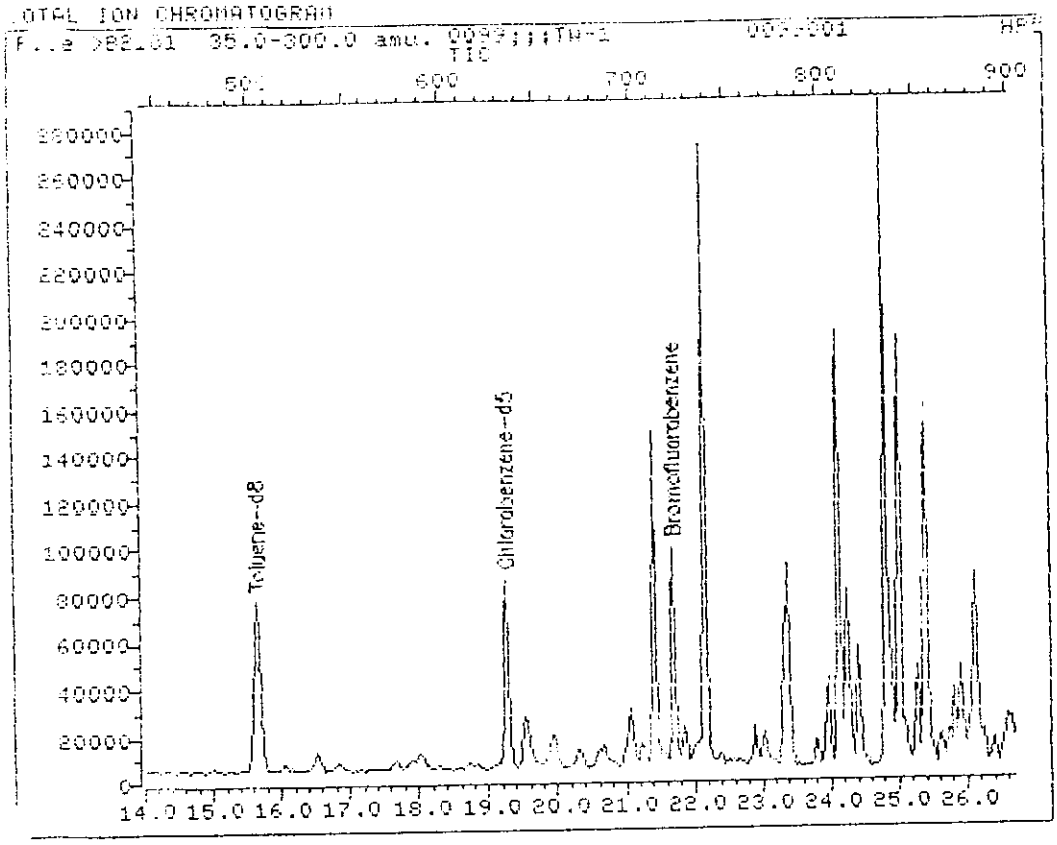


Data File: >B2181::B2 Quant Output File: ^B2181::QT
Name: 0099;;;TW-1
Misc: 0099001 HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930201 16:41
Injected at: 930201 16:14

TIC page 1 of 2



Data File: >B2181::B2 Quant Output File: ^B2181::QT
Name: 0099;;;TW-1
Misc: 0099001 HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

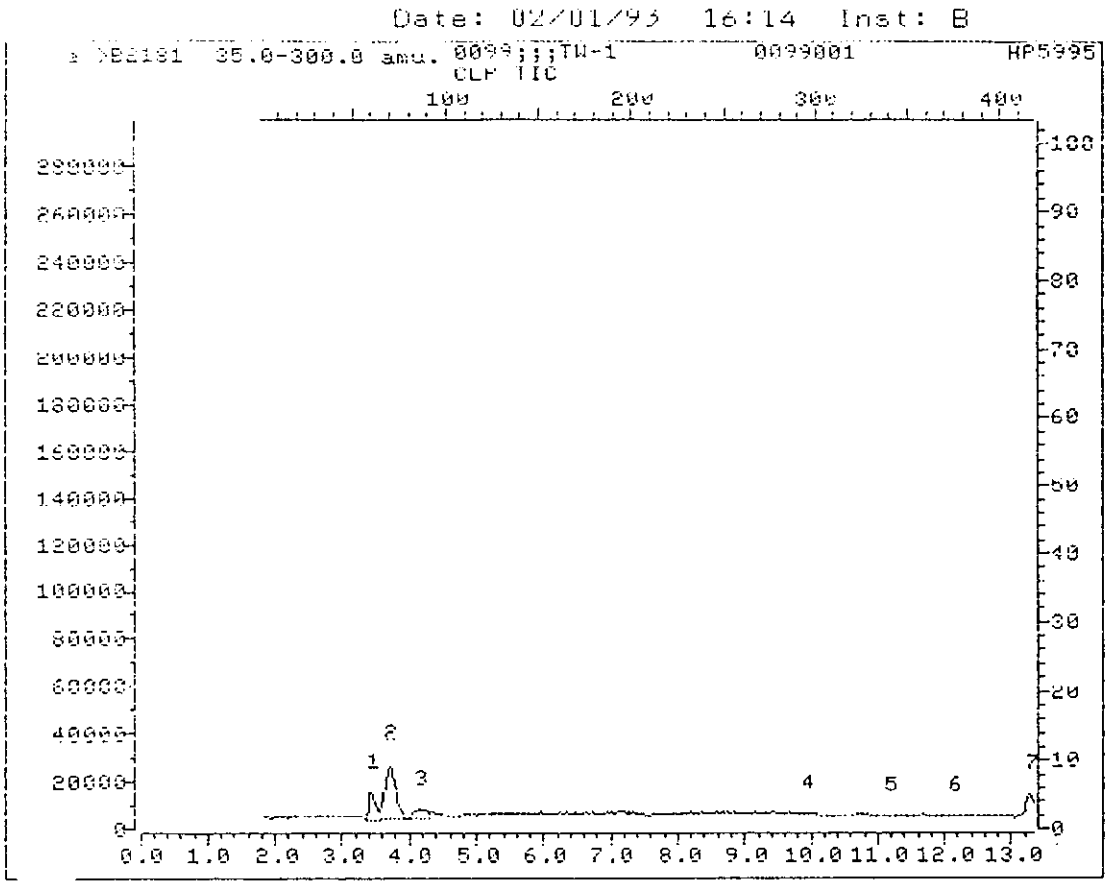
Operator ID: MSB
Quant Time: 930201 16:41
Injected at: 930201 16:14

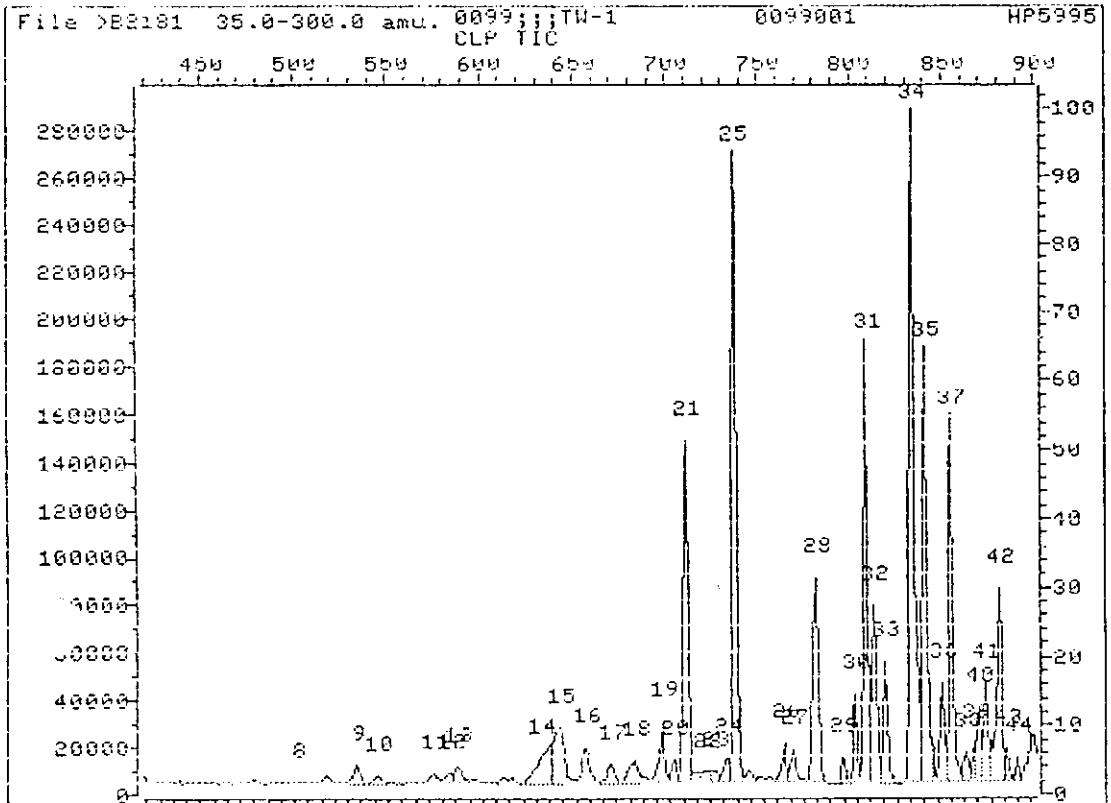
TIC page 2 of 2

MS data file header from : >B2181

Sample: 0099;;;TW-1 Operator: MSB MS 2/01/93 16:14
Misc : 0099001 HP5995 B ;;;LLW;DF1 ;B1887
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS # : 0
Method file: M_BCAP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	30.	100.	200.	0.	0.
Chromatographic times, min. :	4.0	0.0	.3	0.0	0.0
Chromatographic rate, deg/min:	5.0	12.0	0.0	0.0	0.0


Date: 02/01/93 16:14 Inst: B
File >B2181 35.0-300.0 amu. 0099;;;TW-1 0099001 HP5995
CLP TIC


File >B2181 35.0-300.0 amu. 0099;;;TW-1 0099001 HP5995
CLP TIC

Date: 02/01/93 16:14 Inst: B

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
34.	24.84	1283737.	160.	3.	1.00
29.	22.15	1128385.	140.	3.	1.00
31.	24.14	868803.	110.	3.	1.00
35.	25.03	742048.	95.	3.	1.00
21.	21.44	650340.	83.	3.	1.00
37.	25.42	640737.	82.	3.	1.00
28.	23.40	566352.	72.	3.	1.00
42.	26.13	466628.	59.	3.	1.00
~~2~~ CoQ	3.72	234217.	57.	1.	1.00
32.	24.26	315449.	40.	3.	1.00
33.	24.42	200401.	26.	3.	1.00
36.	25.28	174404.	22.	3.	1.00
15.	19.56	163203.	21.	3.	1.00
41.	25.91	162509.	21.	3.	1.00
1.	3.44	87216.	21.	1.	1.00
30.	23.98	147001.	19.	3.	1.00
19.	21.08	148654.	19.	3.	1.00

I N T E R N A L S T D A R E A R E P O R T

ISTD	Compound Name	RT	Area	RT Range		TI/SI
	BROMOCHLOROMETHANE	9.93	204425.	0.00	11.04	7.7
	1,4-DIFLUOROBENZENE	12.14	354146.	11.04	15.71	2.4
	CHLOROBENZENE-D5	19.28	392497.	15.71	26.41	3.3

ISTD peaks found: 3
Surrogate peaks found: 3
Quant target peaks expected: 0
Target peaks matched: 0
Total TIC identified: 34

TICS : 1:48 PM TUE., 2 FEB., 1993

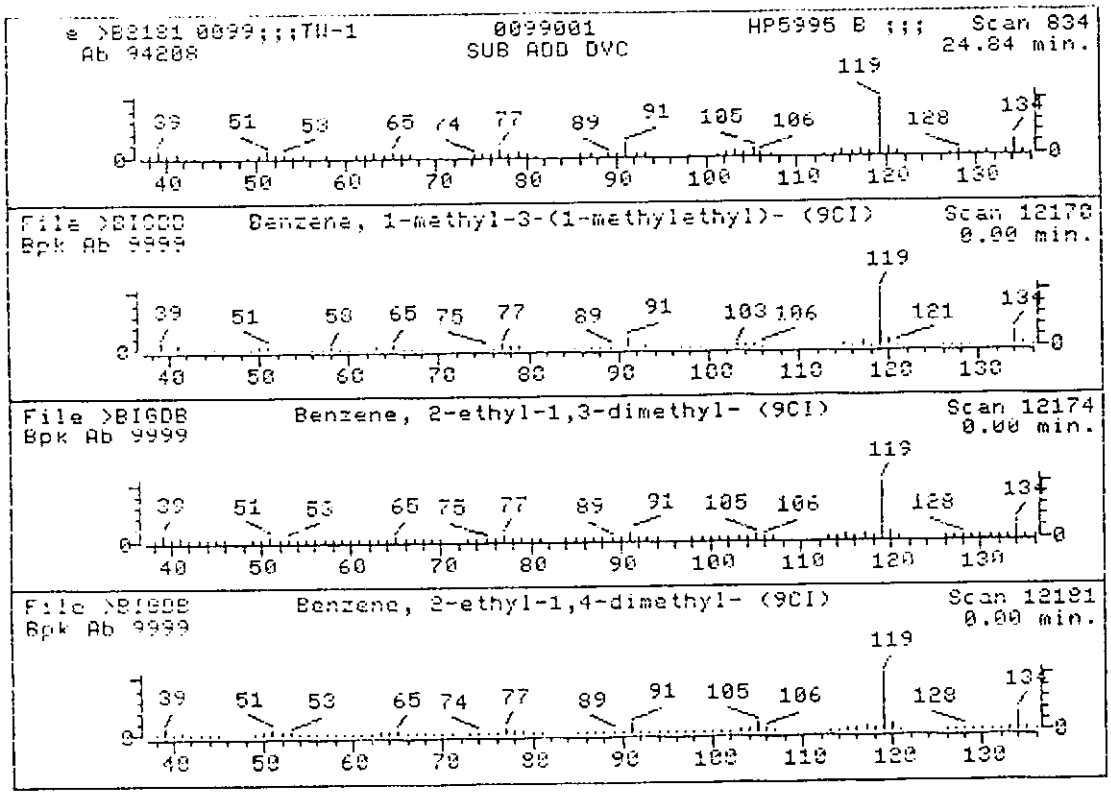
TW-1

1.	Benzene, 1-methyl-3-(1-methylethyl)- (9CI)	134 C10H14
2.	Benzene, 2-ethyl-1,3-dimethyl- (9CI)	134 C10H14
3.	Benzene, 2-ethyl-1,4-dimethyl- (9CI)	134 C10H14
4.	Benzene, 1-ethyl-2,3-dimethyl- (9CI)	134 C10H14
5.	Benzene, 1-methyl-2-(1-methylethyl)- (9CI)	134 C10H14

Sample file: >B2181 Spectrum #: 834
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	535773	12170	"BIGDB	81	8	0	0	79	1	72	96
2.	95*	2870044	12174	"BIGDB	77	12	1	0	95	3	72	93
3.	94*	1758889	12181	"BIGDB	80	14	1	0	70	3	72	92
4.	94*	933982	12172	"BIGDB	77	14	1	0	76	3	72	92
5.	89*	527844	12169	"BIGDB	73	19	2	0	94	1	66	66

Peak#: 34 Area: 1283737. Est Conc: 160. Date: 02/01/93 16:14 Inst: B

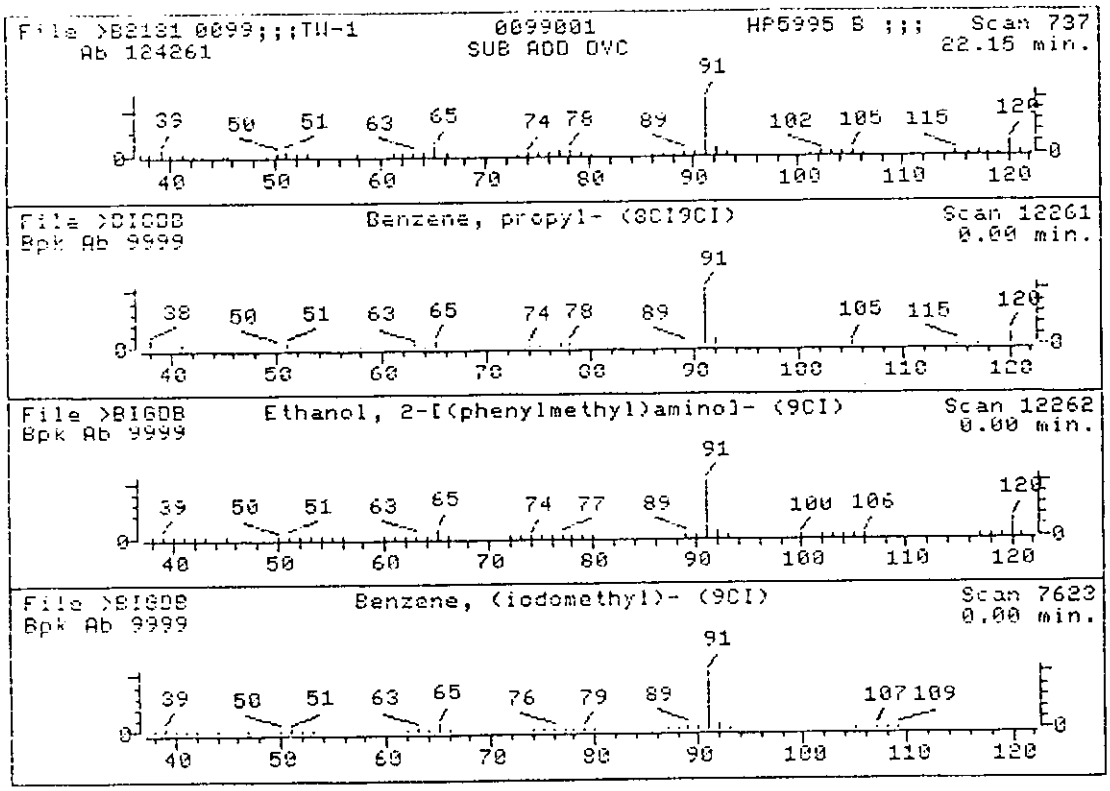


1.	Benzene, propyl- (8CI9CI)	120 C9H12
2.	Ethanol, 2-[(phenylmethyl)amino]- (9CI)	151 C9H13NO
3.	Benzene, (iodomethyl)- (9CI)	218 C7H7I
4.	Tricyclo[4.2.0.02,4]oct-7-en-5-one (9CI)	120 C8H8O
5.	Benzaldehyde, 4-methyl- (9CI)	120 C8H8O

Sample file: >B2181 Spectrum #: 737
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	74*	103651	12261	"BIGDB	52	33	1	0	67	12	39	44
2.	70	104632	12262	"BIGDB	46	33	2	0	72	10	42	15
3.	43	620053	7623	"BIGDB	41	43	2	0	100	23	17	14
4.	35*	56666785	12270	"BIGDB	36	53	2	0	89	33	12	18
5.	20*	104870	12274	"BIGDB	27	43	2	0	24	53	9	14

Peak#: 25 Area: 1128385. Est Conc: 140. Date: 02/01/93 16:14 Inst: B

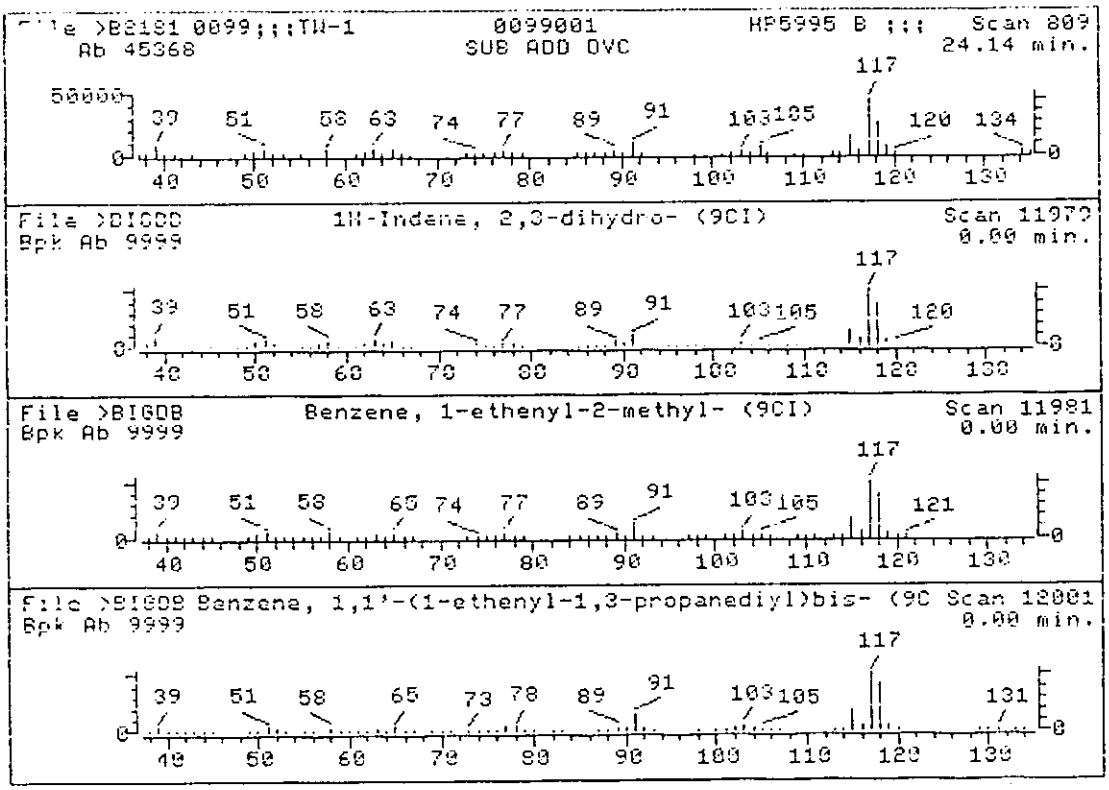


1.	1H-Indene, 2,3-dihydro- (9CI)	118	C9H10
2.	Benzene, 1-ethenyl-2-methyl- (9CI)	118	C9H10
3.	Benzene, 1,1'-(1-ethenyl-1,3-propanediyl)bis- (9CI)	222	C17H18
4.	Benzeneethanol, .beta.-ethenyl- (9CI)	148	C10H12O
5.	Benzene, 1-ethenyl-3-methyl- (9CI)	118	C9H10

Sample file: >B2181 Spectrum #: 809
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	84*	496117	11979	"BIGDB	67	35	1	0	67	10	59	66
2.	68*	611154	11981	"BIGDB	67	26	2	0	74	23	30	54
3.	52	61141977	12001	"BIGDB	75	38	2	0	70	17	20	19
4.	46	6052637	11990	"BIGDB	54	40	2	0	69	21	17	17
5.	30*	100801	11972	"BIGDB	45	51	2	0	56	46	10	22

Peak#: 31 Area: 868803. Est Conc: 110. Date: 02/01/93 16:14 Inst: B

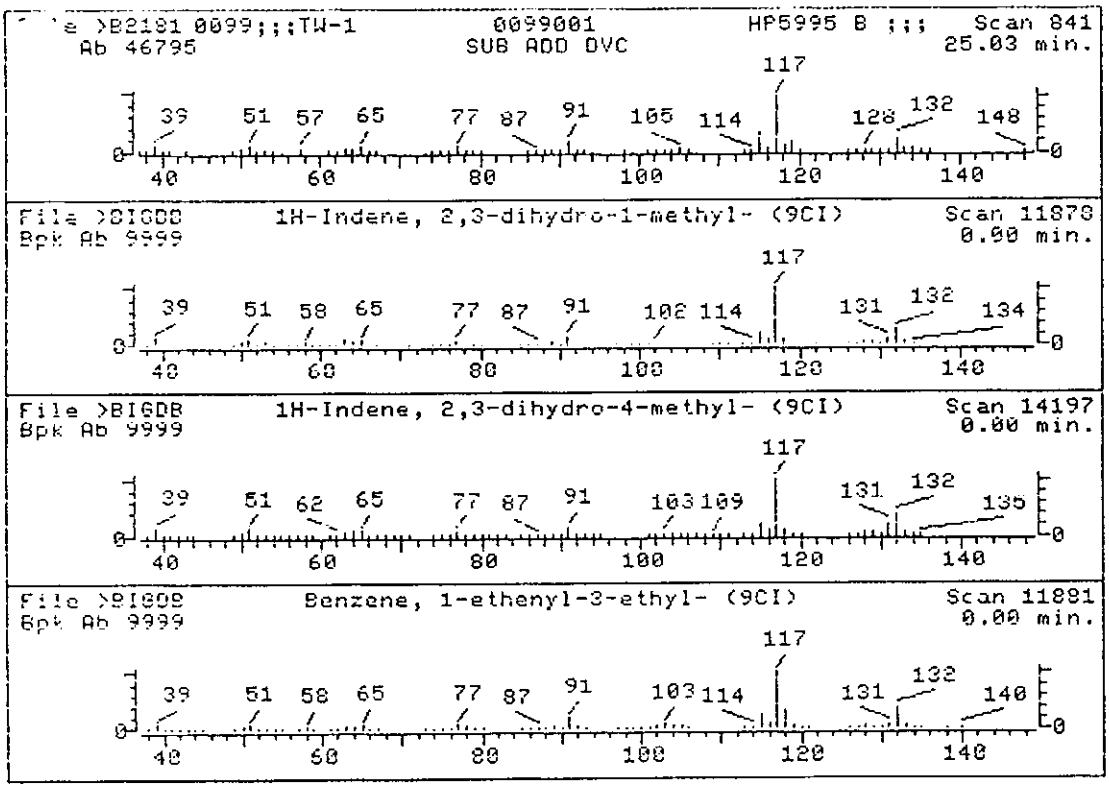


1.	1H-Indene, 2,3-dihydro-1-methyl- (9CI)	132 C10H12
2.	1H-Indene, 2,3-dihydro-4-methyl- (9CI)	132 C10H12
3.	Benzene, 1-ethenyl-3-ethyl- (9CI)	132 C10H12
4.	1H-Indene, 2,3-dihydro-2-methyl- (9CI)	132 C10H12
5.	Benzene, (1-ethyl-2-propenyl)- (9CI)	146 C11H14

Sample file: >B2181 Spectrum #: 841
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	767588	11878	"BIGDB	62	39	1	0	86	23	32	60
2.	52*	824226	14197	"BIGDB	55	52	2	0	67	29	24	32
3.	41*	7525624	11881	"BIGDB	40	55	2	0	73	27	14	18
4.	41*	824635	14198	"BIGDB	48	43	1	0	44	44	14	35
5.	35	19947229	11897	"BIGDB	49	40	1	0	83	33	12	18

Peak#: 35 Area: 742048. Est Conc: 95. Date: 02/01/93 16:14 Inst: B

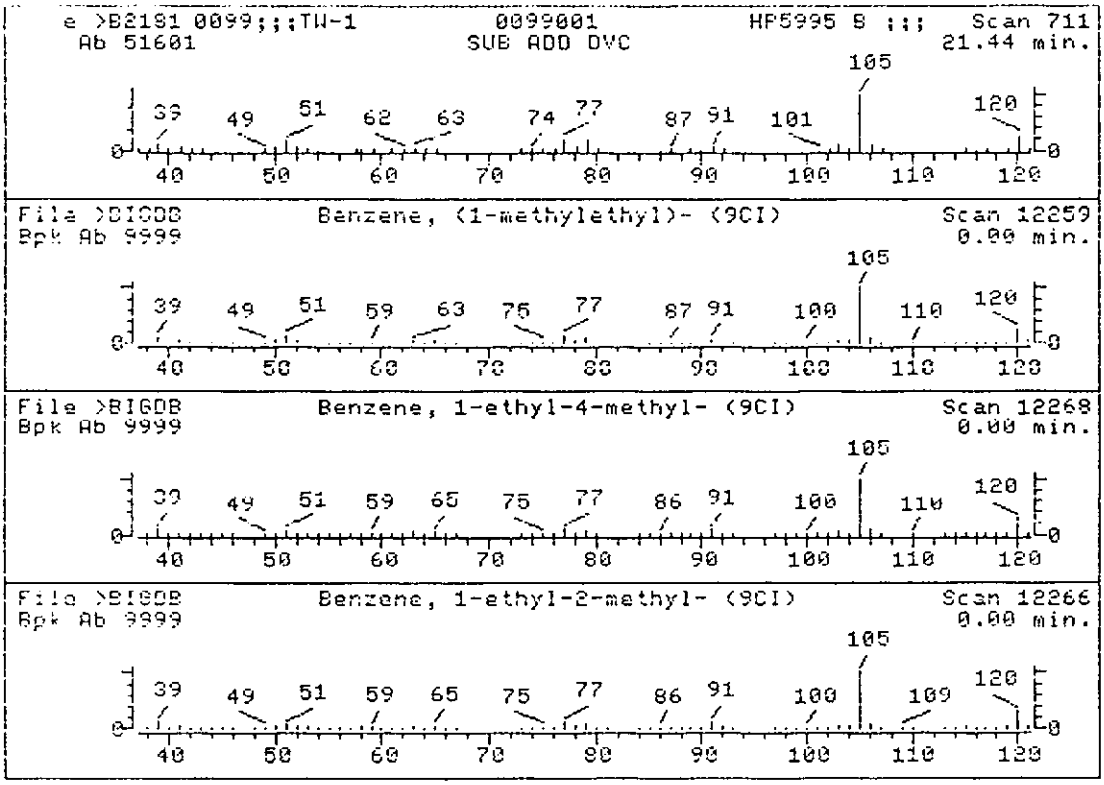


1.	Benzene, (1-methylethyl)- (9CI)	120 C9H12
2.	Benzene, 1-ethyl-4-methyl- (9CI)	120 C9H12
3.	Benzene, 1-ethyl-2-methyl- (9CI)	120 C9H12
4.	Benzene, 1-ethyl-3-methyl- (9CI)	120 C9H12
5.	Benzene, 1,2,3-trimethyl- (8CI9CI)	120 C9H12

Sample file: >B2181 Spectrum #: 711
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86*	98828	12259	"BIGDB	60	27	0	0	74	7	59	73
2.	67*	622968	12268	"BIGDB	46	39	1	0	67	15	34	29
3.	60*	611143	12266	"BIGDB	30	55	2	0	89	11	30	19
4.	30*	620144	12267	"BIGDB	33	54	1	0	58	43	8	18
5.	29*	526738	12280	"BIGDB	32	53	1	0	44	43	8	17

Peak#: 21 Area: 650340. Est Conc: 83. Date: 02/01/93 16:14 Inst: B

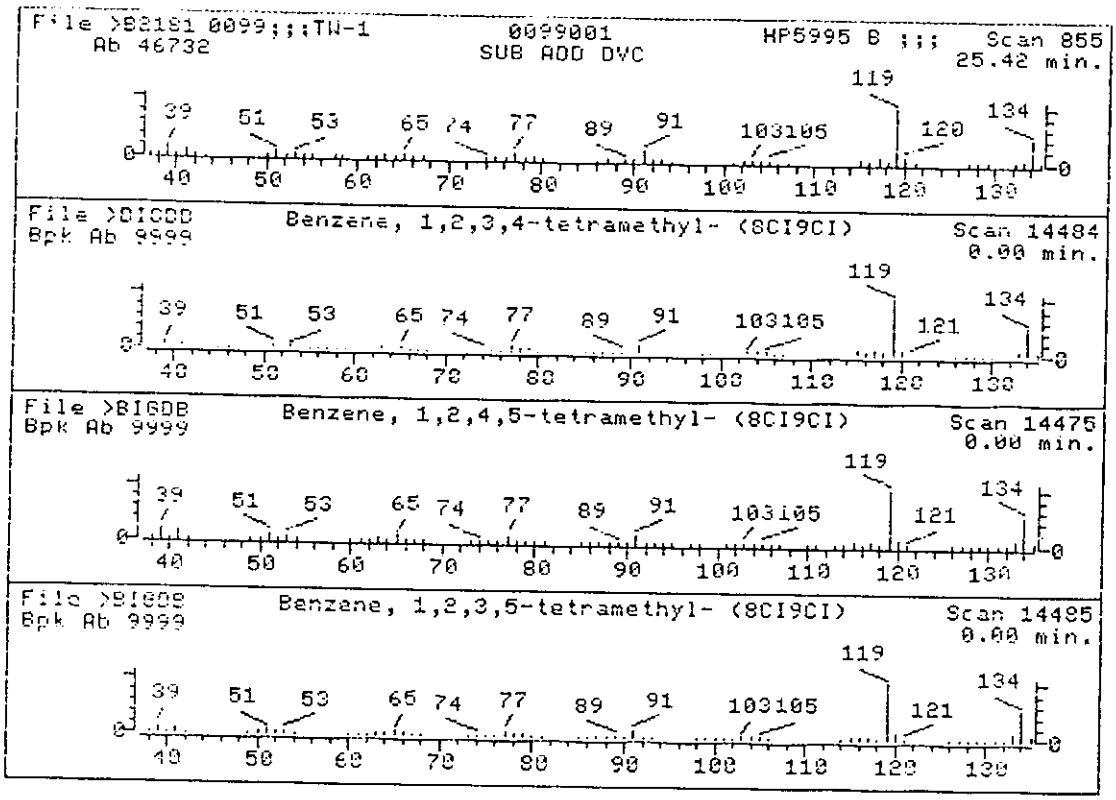


1.	Benzene, 1,2,3,4-tetramethyl- (8CI9CI)	134 C10H14
2.	Benzene, 1,2,4,5-tetramethyl- (8CI9CI)	134 C10H14
3.	Benzene, 1,2,3,5-tetramethyl- (8CI9CI)	134 C10H14
4.	Benzene, 1-ethyl-3,5-dimethyl- (9CI)	134 C10H14
5.	Benzene, 1-ethyl-2,3-dimethyl- (9CI)	134 C10H14

Sample file: >B2181 Spectrum #: 855
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	488233	14484	"BIGDB	85	9	0	0	75	1	72	9[illegible]
2.	95*	95932	14475	"BIGDB	84	18	0	0	72	4	72	95
3.	95*	527537	14485	"BIGDB	79	14	0	0	70	1	72	9[illegible]
4.	88*	934747	12180	"BIGDB	71	24	2	0	100	1	65	57
5.	88*	933982	12172	"BIGDB	64	27	2	0	100	3	69	5[illegible]

Peak#: 37 Area: 640737. Est Conc: 82. Date: 02/01/93 16:14 Inst: B

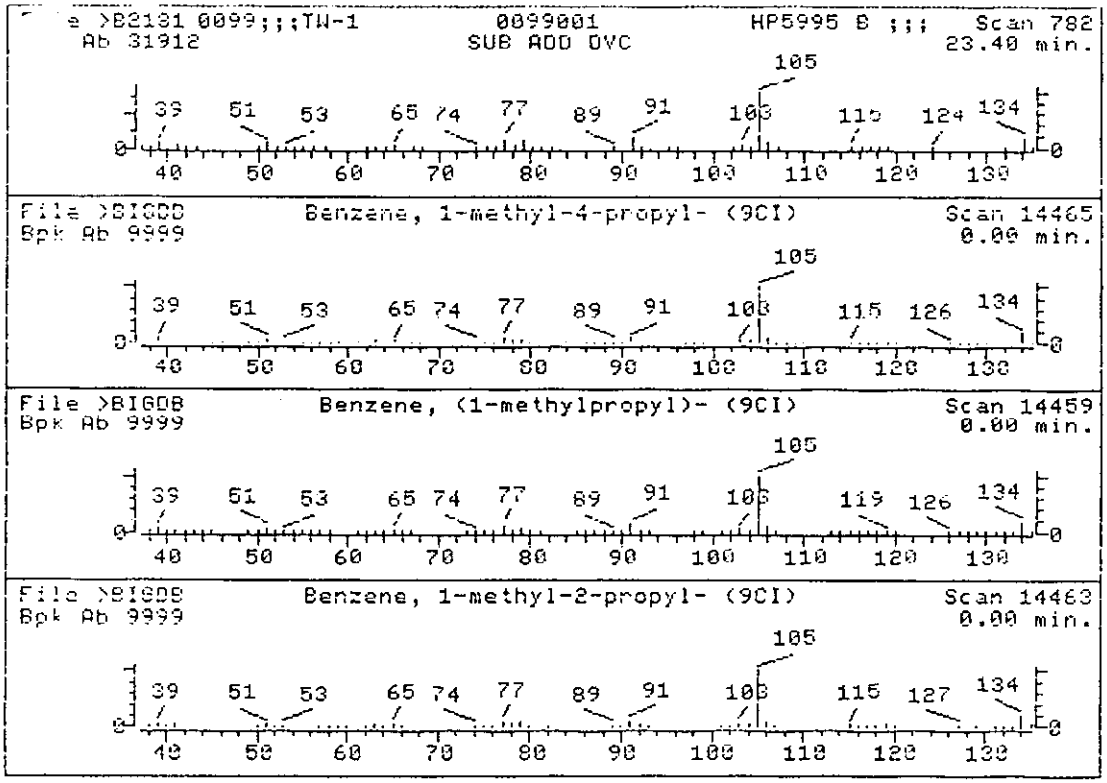


1.	Benzene, 1-methyl-4-propyl- (9CI)	134 C10H14
2.	Benzene, (1-methylpropyl)- (9CI)	134 C10H14
3.	Benzene, 1-methyl-2-propyl- (9CI)	134 C10H14
4.	Benzene, 1-methyl-3-propyl- (9CI)	134 C10H14
5.	Benzene, (1,2,2-trimethyl-3-butenyl)- (9CI)	174 C13H18

Sample file: >B2181 Spectrum #: 782
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	1074551	14465	"BIGDB	66	17	0	0	93	13	64	93
2.	89*	135988	14459	"BIGDB	69	17	1	0	100	7	62	80
3.	76*	1074175	14463	"BIGDB	56	29	1	0	79	19	40	59
4.	67*	1074437	14464	"BIGDB	47	40	2	0	67	13	34	27
5.	52	61142174	9915	"BIGDB	38	48	2	0	100	17	20	12

Peak#: 28 Area: 566352. Est Conc: 72. Date: 02/01/93 16:14 Inst: B

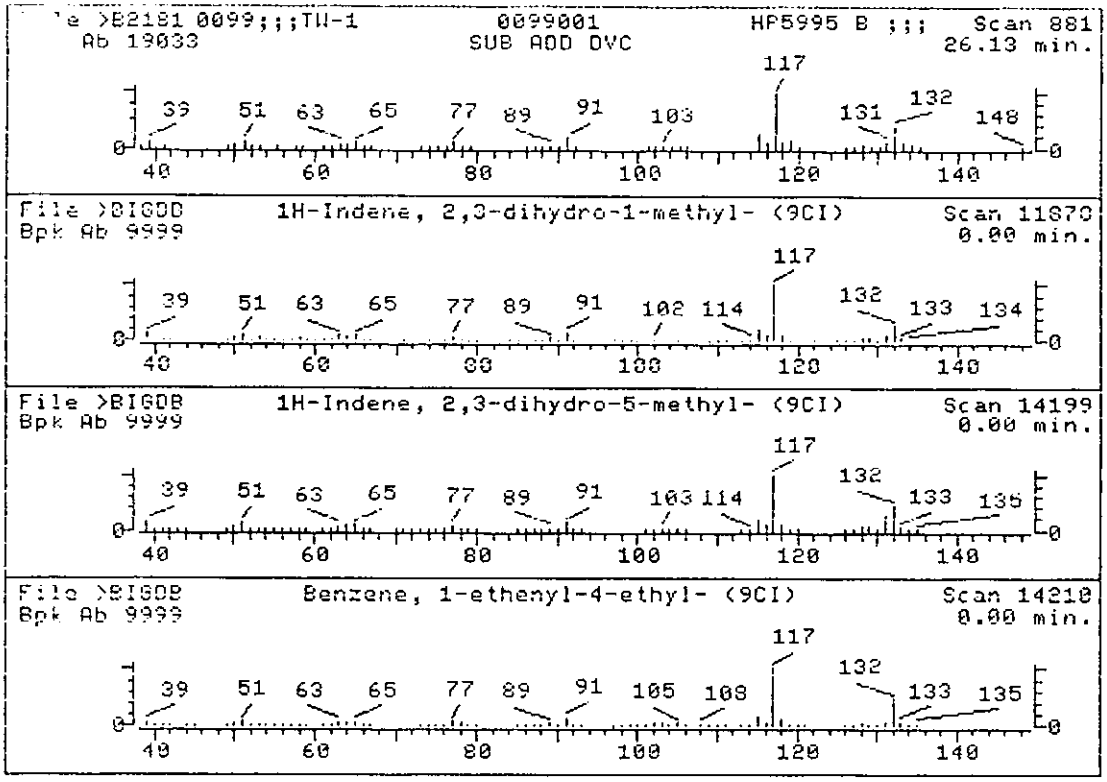


1.	1H-Indene, 2,3-dihydro-1-methyl- (9CI)	132	C10H12
2.	1H-Indene, 2,3-dihydro-5-methyl- (9CI)	132	C10H12
3.	Benzene, 1-ethenyl-4-ethyl- (9CI)	132	C10H12
4.	1H-Indene, 2,3-dihydro-4-methyl- (9CI)	132	C10H12
5.	Benzene, 1-ethenyl-3-ethyl-, mixt. with 1-ethenyl-4-ethylbenzene (9CI)	264	C20H24

Sample file: >B2181 Spectrum #: 881
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83*	767588	11878	"BIGDB	72	25	1	0	100	12	51	71
2.	75*	874351	14199	"BIGDB	63	43	1	0	79	20	36	60
3.	68*	3454077	14210	"BIGDB	45	48	0	0	79	22	30	53
4.	64*	824226	14197	"BIGDB	57	50	1	0	80	23	28	46
5.	63	55319727	14233	"BIGDB	66	53	0	0	77	18	30	35

Peak#: 42 Area: 466628. Est Conc: 59. Date: 02/01/93 16:14 Inst: B

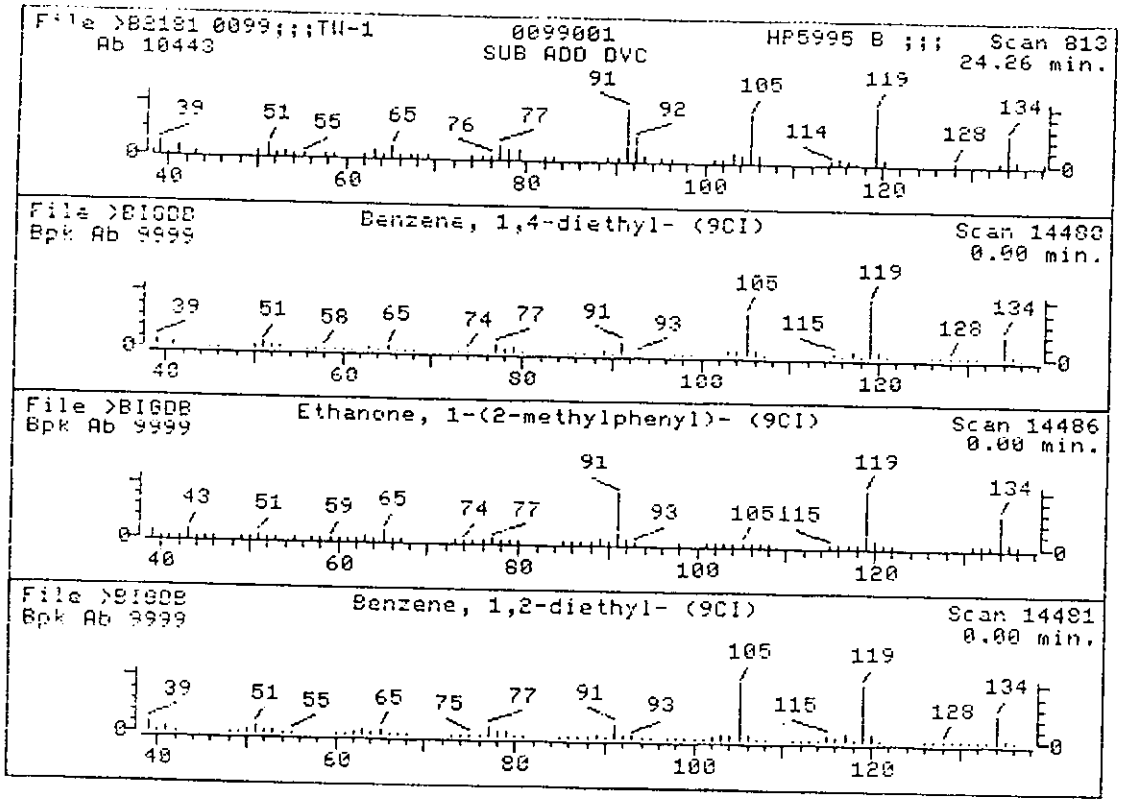


1.	Benzene, 1,4-diethyl- (9CI)	134 C10H14
2.	Ethanone, 1-(2-methylphenyl)- (9CI)	134 C9H10O
3.	Benzene, 1,2-diethyl- (9CI)	134 C10H14
4.	1,4-Cyclohexadiene, 3-ethenyl-1,2-dimethyl- (9CI)	134 C10H14
5.	Benzene, 1,3-diethyl- (9CI)	134 C10H14

Sample file: >B2181 Spectrum #: 813
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43*	105055	14480	"BIGDB	56	45	2	0	100	38	17	32
2.	41*	577162	14486	"BIGDB	49	45	2	0	91	39	14	28
3.	40*	135013	14481	"BIGDB	52	54	2	0	83	38	14	27
4.	36*	62338572	12184	"BIGDB	43	66	3	0	100	30	14	13
5.	35*	141935	14482	"BIGDB	49	53	2	0	90	38	14	22

Peak#: 32 Area: 315449. Est Conc: 40. Date: 02/01/93 16:14 Inst: B

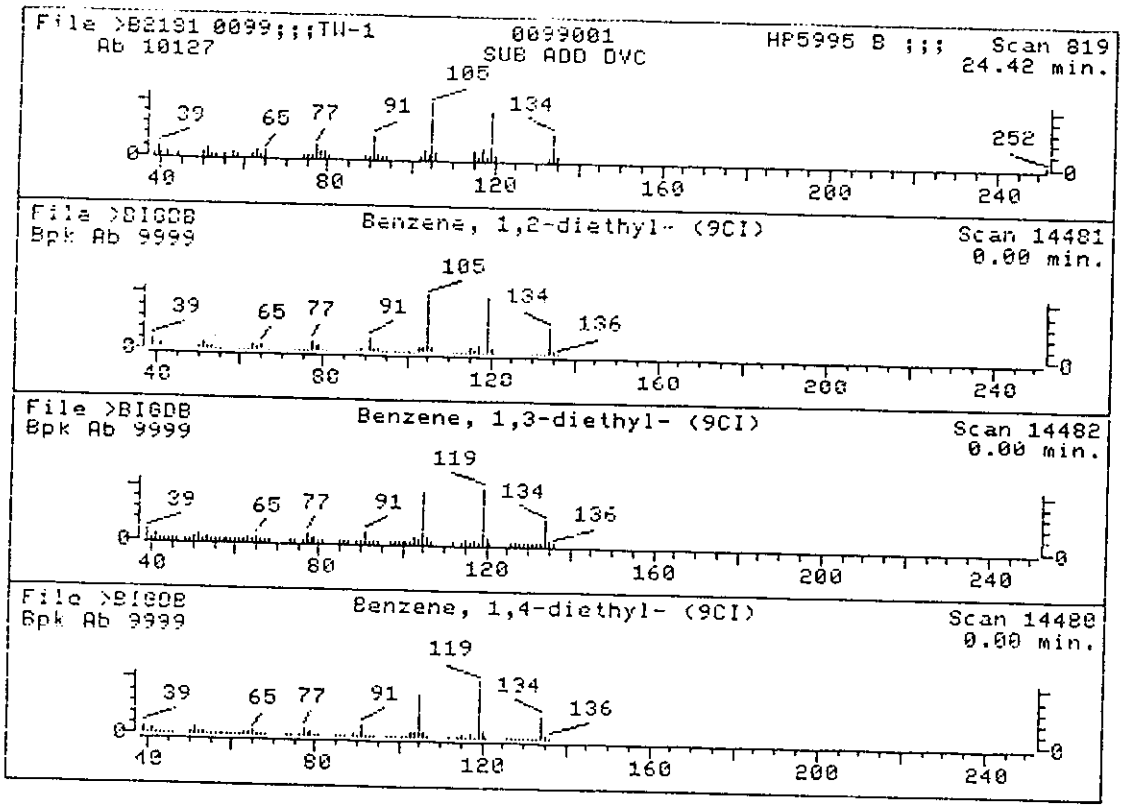


1.	Benzene, 1,2-diethyl- (9CI)	134 C10H14
2.	Benzene, 1,3-diethyl- (9CI)	134 C10H14
3.	Benzene, 1,4-diethyl- (9CI)	134 C10H14
4.	Ethanone, 1-(2-methylphenyl)- (9CI)	134 C9H10O
5.	Benzene, 1,2,3,4-tetramethyl- (8CI9CI)	134 C10H14

Sample file: >B2181 Spectrum #: 819
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	135013	14481	"BIGDB	88	18	0	0	81	4	72	96
2.	84*	141935	14482	"BIGDB	65	37	1	0	82	10	55	65
3.	46*	105055	14480	"BIGDB	38	62	0	0	62	38	17	35
4.	40*	577162	14486	"BIGDB	60	34	2	0	57	49	12	44
5.	30*	488233	14484	"BIGDB	41	53	1	0	80	46	10	23

Peak#: 33 Area: 200401. Est Conc: 26. Date: 02/01/93 16:14 Inst: B



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-2 057

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2196.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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	1	JB
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.

TW-2 058

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2196.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 JAS 02/11/93

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	25.02	8	J
2.		UNKNOWN C4 ALKYLBENZENE	24.88	7	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: MSB
Output File: ^B2196::QT
Data File: >B2196::B2
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888

Quant Rev: 6 Quant Time: 930202 12:02
Injected at: 930202 11:34
Dilution Factor: 1.00000

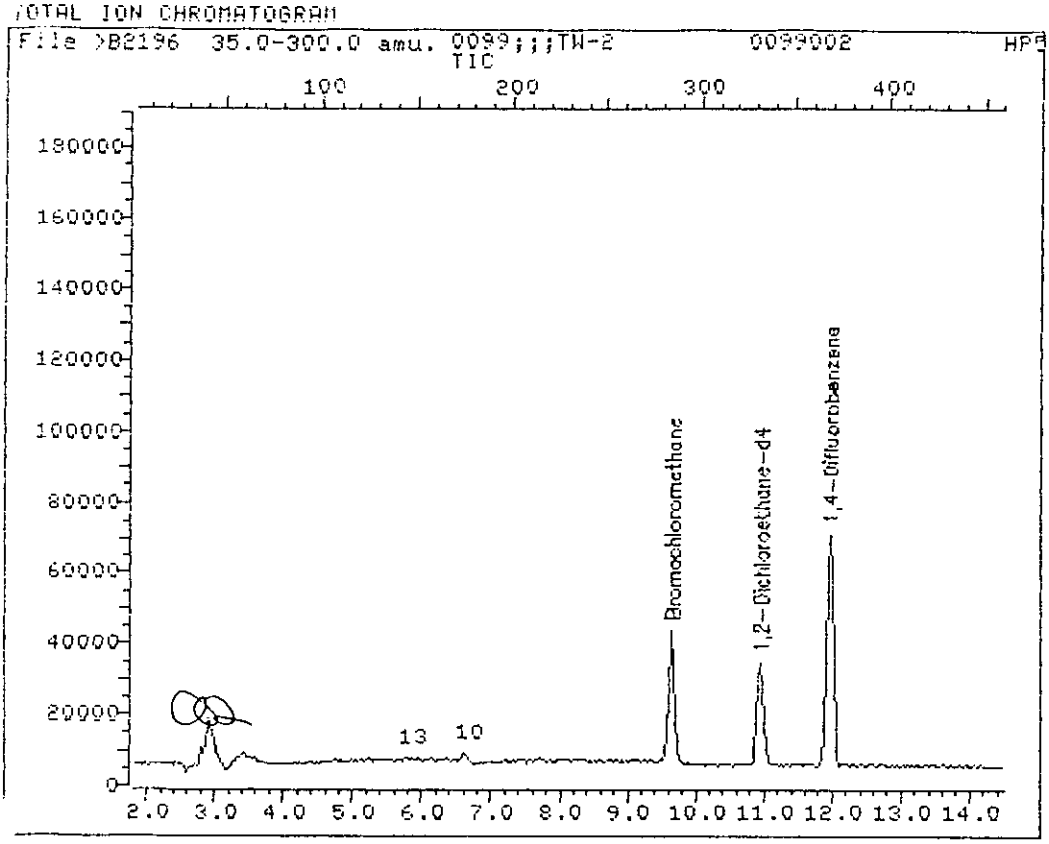
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.65	127.8	29937	50.00	ug/L	86
10)	Methylene Chloride	6.61	83.8	1638	2.50	ug/L	91
13)	Acetone	5.81	42.8	5253	12.63	ug/L	80
31)	1,2-Dichloroethane-d4	10.95	64.8	65653	45.52	ug/L	85
35)	*1,4-Difluorobenzene	11.97	113.8	169419	50.00	ug/L	93
55)	*Chlorobenzene-d5	19.22	116.8	136166	50.00	ug/L	97
62)	Toluene	15.75	91.0	4727	1.16	ug/L	97
63)	Toluene-d8	15.56	97.8	166557	47.20	ug/L	92
93)	Bromofluorobenzene	21.67	173.9	79691	55.10	ug/L	59

Compound is ISTD

PAS 02/10/93

TOTAL ION CHROMATOGRAM



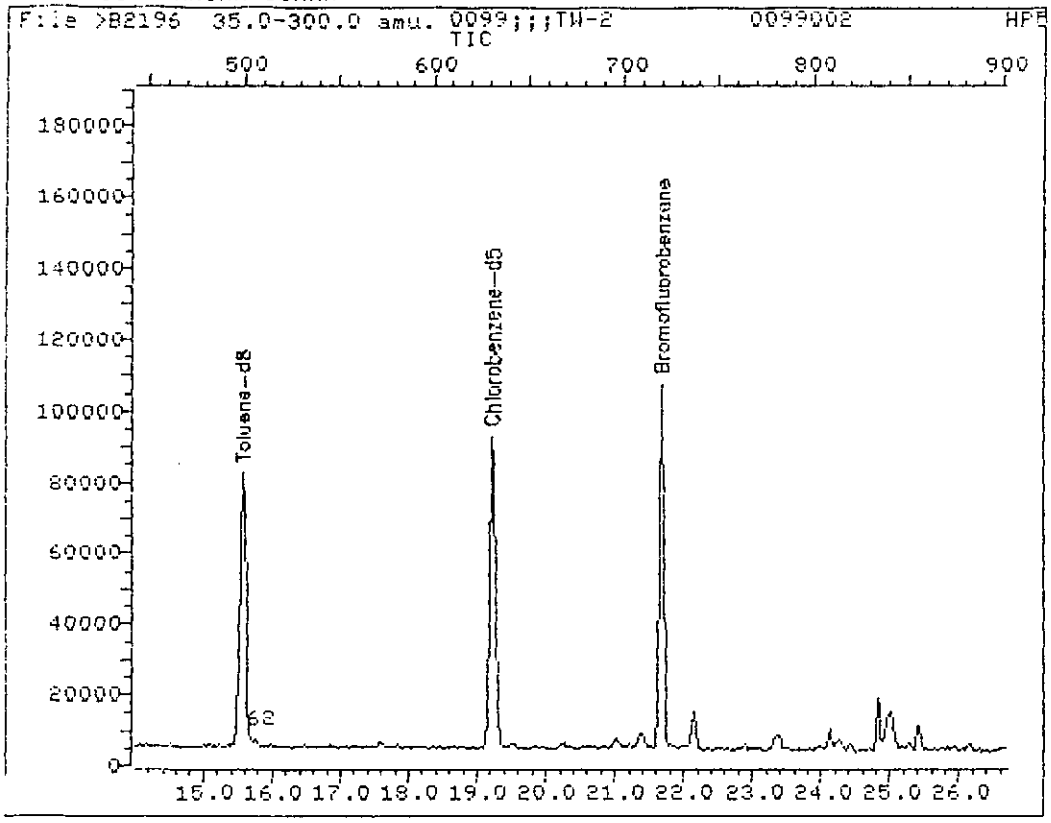
Data File: >B2196::B2 Quant Output File: ^B2196::QT
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 12:02
Injected at: 930202 11:34

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



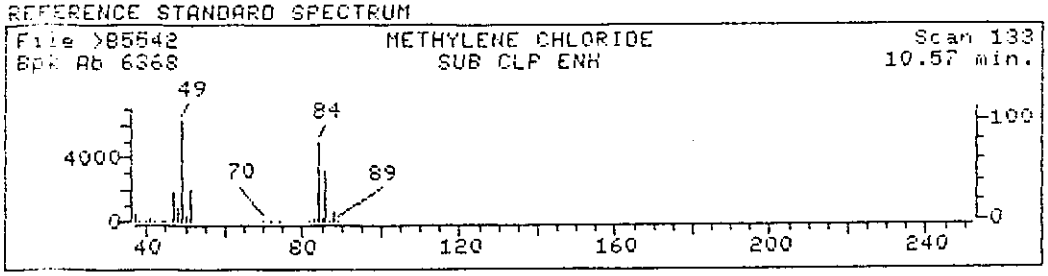
Data File: >B2196::B2 Quant Output File: ^B2196::QT
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

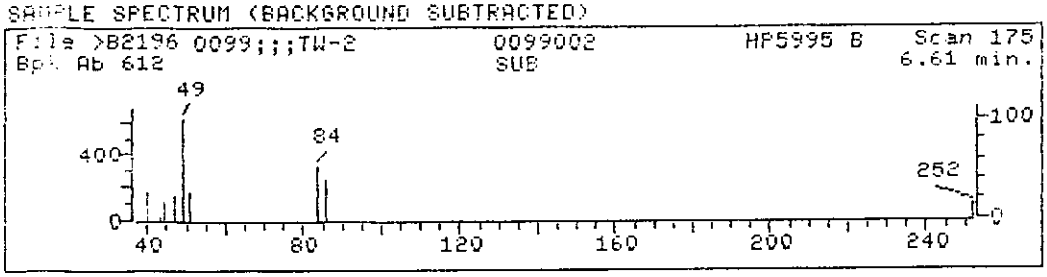
Operator ID: MSB
Quant Time: 930202 12:02
Injected at: 930202 11:34

TIC page 2 of 2

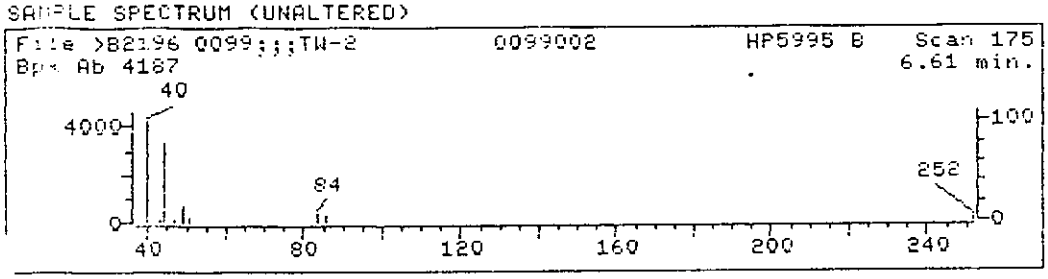
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



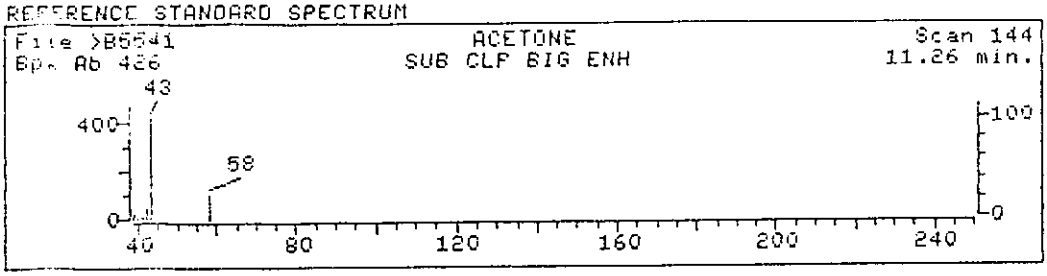
SAMPLE SPECTRUM (UNALTERED)



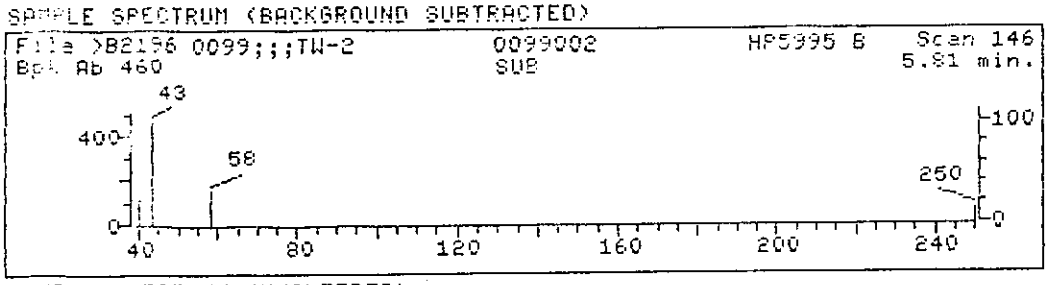
Data File: >B2196::B2 Quant Output File: ^B2196::QT
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 12:02 Quant ID File: I_IFBW::N1
Injected at: 930202 11:34 Last Calibration: 930202 10:13

Compound No: 10
Compound Name: Methylene Chloride
Scan Number: 175
Retention Time: 6.61 min.
Quant Ion: 83.8
Area: 1638
Concentration: 2.50 ug/L
q-value: 91

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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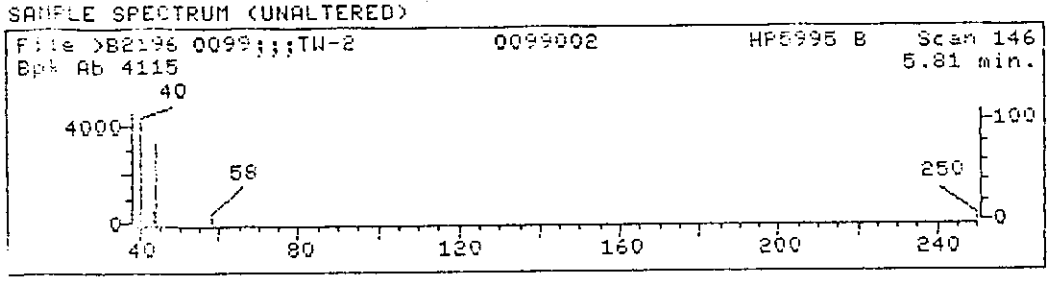
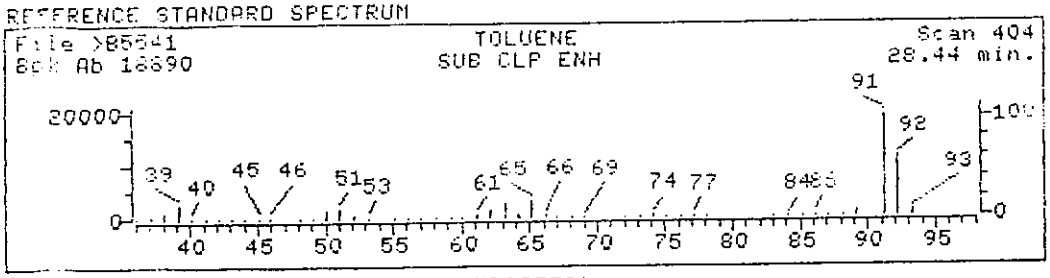


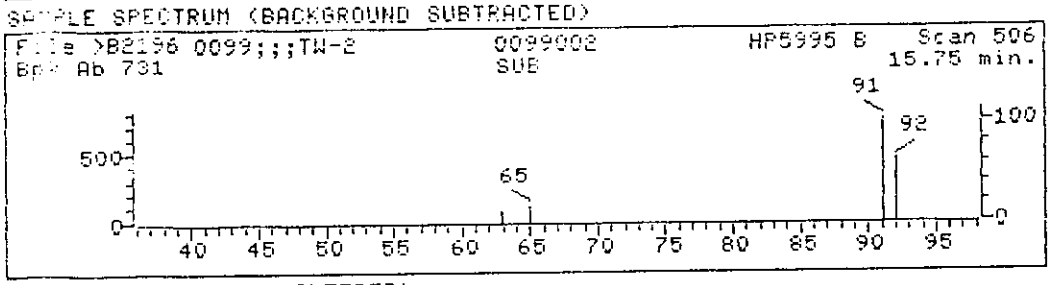
Data File: >B2196::B2 Quant Output File: ^B2196::QT
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 12:02 Quant ID File: I_IFBW::N1
Injected at: 930202 11:34 Last Calibration: 930202 10:13

Compound No: 13
Compound Name: Acetone
Scan Number: 146
Retention Time: 5.81 min.
Quant Ion: 42.8
Area: 5253
Concentration: 12.63 ug/L
q-value: 80

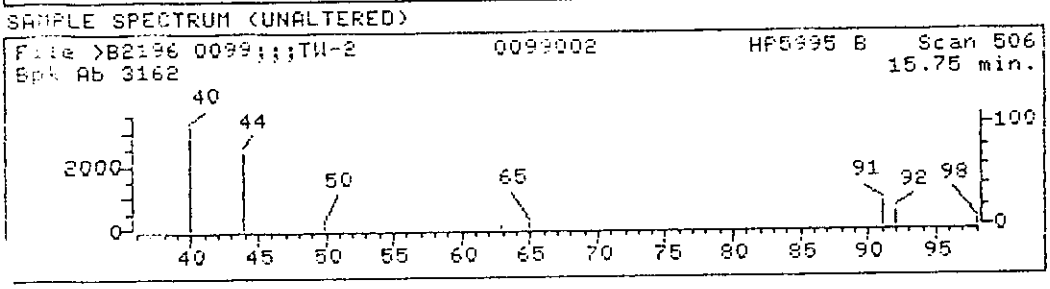
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



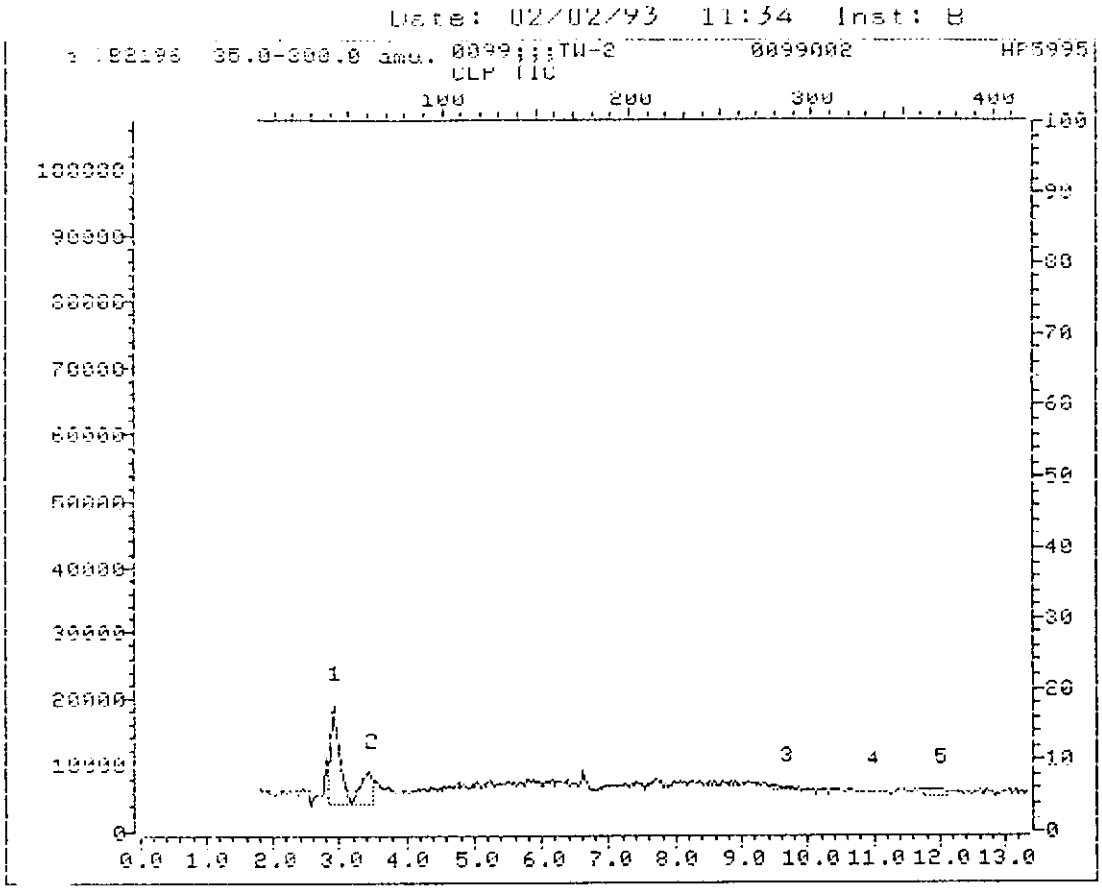
Data File: >B2196::B2 Quant Output File: ^B2196::QT
Name: 0099;;;TW-2
Misc: 0099002 HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 12:02 Quant ID File: I_IFBW::N1
Injected at: 930202 11:34 Last Calibration: 930202 10:13

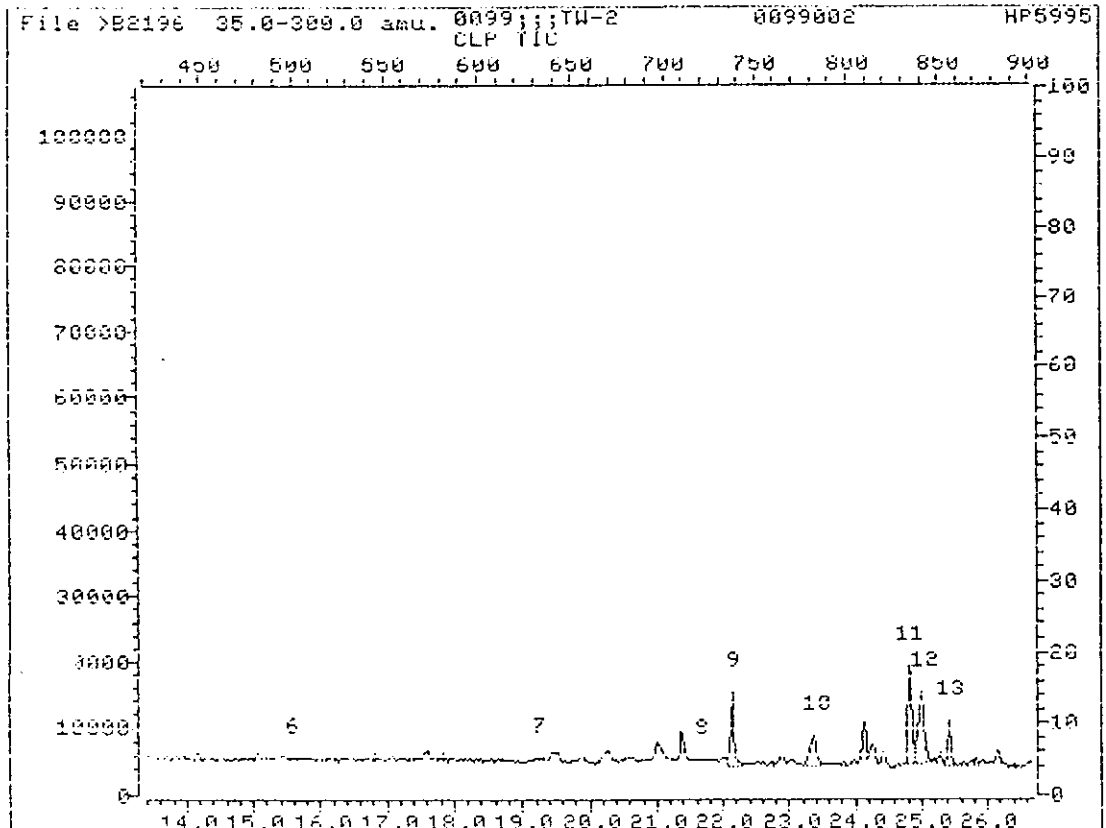
Compound No: 62
Compound Name: Toluene
Scan Number: 506
Retention Time: 15.75 min.
Quant Ion: 91.0
Area: 4727
Concentration: 1.16 ug/L
q-value: 97

. . data file header from : >B2196

Sample: 0099;;;TW-2 Operator: MSB MS 2/02/93 11:34
Misc : 0099002 HP5995 B ;;;LLW;UF1 ;B1888
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS # : 0
Method file: M_BCAP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	30.	100.	200.	0.	0.
Chromatographic times, min. :	4.0	0.0	.3	0.0	0.0
Chromatographic rate, deg/min:	9.0	12.0	0.0	0.0	0.0


Date: 02/02/93 11:34 Inst: B
CLP TIC
1
2
3
4
5


File >B2196 35.0-300.0 amu. 0099;;;TW-2 0099002 HP5995
CLP TIC
6
7
8
9
10
11
12
13

Date: 02/02/93 11:34 Inst: B

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
1.	2.91	133449.	29.	1.	1.00
2.	3.44	55857.	12.	1.	1.00
12.	25.02	69545.	8.	3.	1.00
11.	24.82	60467.	7.	3.	1.00

I N T E R N A L S T D A R E A R E P O R T

ISTD	Compound Name	RT	Area	RT Range		TI/SI
	BROMOCHLOROMETHANE	9.69	230928.	0.00	10.81	7.7
	1,4-DIFLUOROBENZENE	11.97	413843.	10.81	15.59	2.4
	CHLOROBENZENE-D5	19.22	446662.	15.59	25.43	3.3

ISTD peaks found:	3
Surrogate peaks found:	3
Quant target peaks expected:	2
Target peaks matched:	0
Total TIC identified:	4

TICS : 11:41 AM THU., 11 FEB., 1993

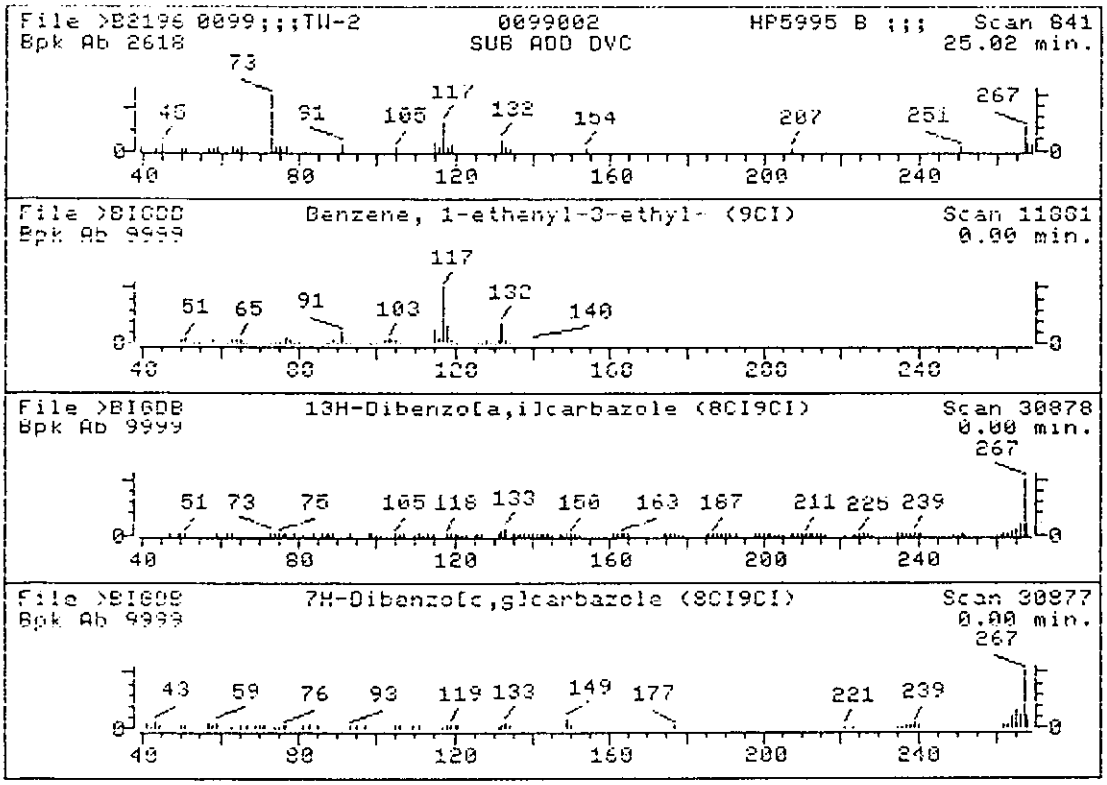
TW-2

1.	Benzene, 1-ethenyl-3-ethyl- (9CI)	132	C10H12
2.	13H-Dibenzo[a,i]carbazole (8CI9CI)	267	C20H13N
3.	7H-Dibenzo[c,g]carbazole (8CI9CI)	267	C20H13N
4.	1,2,4-Oxadiazole, 5-(4-nitrophenyl)-3-phenyl- (9CI)	267	C14H9N3O3
5.	1H-Indene, 2,3-dihydro-1-methyl- (9CI)	132	C10H12

Sample file: >B2196 Spectrum #: 841
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	7525624	11881	"BIGDB	38	57	2	0	50	54	5	17
2.	15*	239645	30878	"BIGDB	22	86	3	0	40	56	3	12
3.	15*	194592	30877	"BIGDB	26	91	3	0	40	58	3	13
4.	15*	28825129	30893	"BIGDB	27	112	3	0	57	58	3	13
5.	15*	767588	11878	"BIGDB	50	47	3	0	50	56	3	17

Peak#: 12 Area: 69545. Est Conc: 8. Date: 02/02/93 11:34 Inst: B

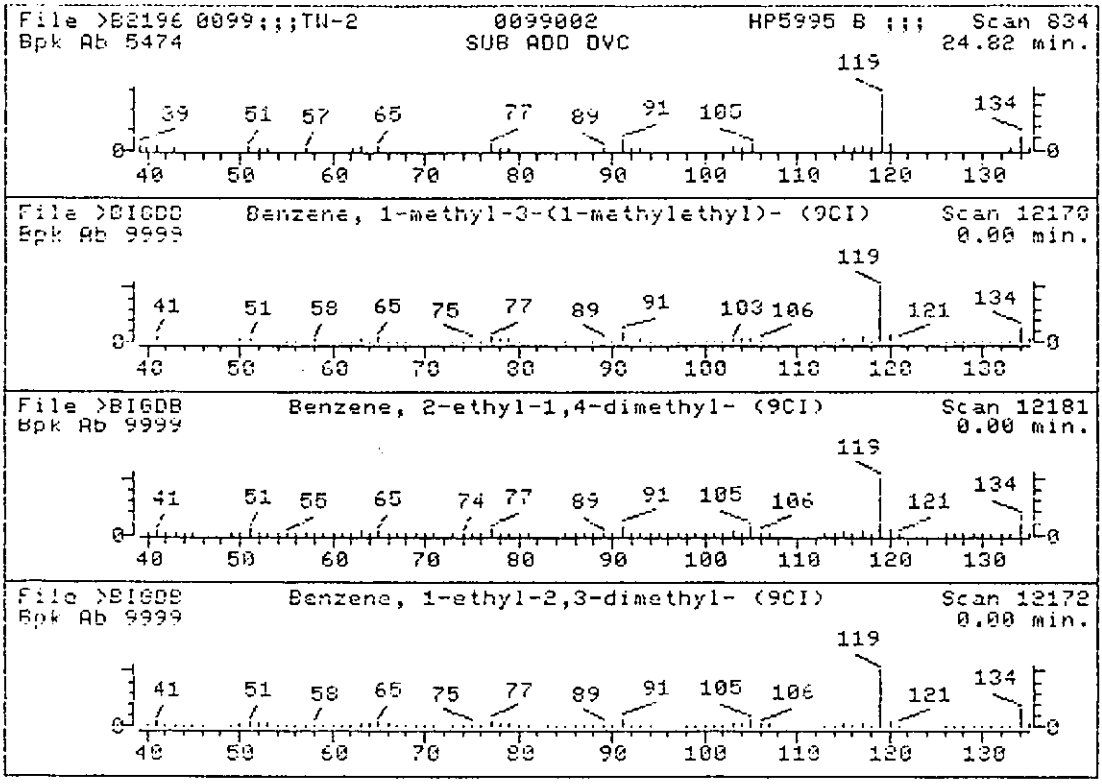


1.	Benzene, 1-methyl-3-(1-methylethyl)- (9CI)	134 C10H14
2.	Benzene, 2-ethyl-1,4-dimethyl- (9CI)	134 C10H14
3.	Benzene, 1-ethyl-2,3-dimethyl- (9CI)	134 C10H14
4.	Benzene, 1-ethyl-2,3-dimethyl- (9CI)	134 C10H14
5.	Benzene, 1-ethyl-2,4-dimethyl- (9CI)	134 C10H14

Sample file: >B2196 Spectrum #: 834
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	535773	12170	"BIGDB	84	5	1	0	92	8	68	96
2.	94*	1758889	12181	"BIGDB	80	14	1	0	71	1	72	92
3.	89*	933982	12172	"BIGDB	73	18	2	0	86	1	66	66
4.	89*	2870044	12174	"BIGDB	72	17	2	0	98	1	66	66
5.	89*	874419	12171	"BIGDB	71	17	2	0	100	1	66	63

Peak#: 11 Area: 60467. Est Conc: 7. Date: 02/02/93 11:34 Inst: B



6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

070

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Instrument ID: HP5995B Calibration Date(s): 02/01/93

Heated Purge: (Y/N) N Calibration Times: 0919 1240

GC Column:007-624 ID: 0.53 (mm)

LAB FILE ID: RRF10 =B2173.D RRF20 =B2174.D
RRF50 =B2175.D RRF100=B2176.D RRF200=B2178.D

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane		0.664	0.773	0.731	0.720	0.955	0.769	14.5
Bromomethane	*	0.648	0.912	0.901	0.936	0.885	0.857	13.8*
Vinyl Chloride	*	0.944	1.144	1.109	1.150	1.200	1.109	8.8*
Chloroethane		0.171	0.578	0.725	0.787	0.832	0.619	43.3
Methylene Chloride		1.281	1.385	1.249	1.217	1.217	1.270	5.5
Acetone		1.042	1.364	1.025	0.998	0.784	1.043	19.9
Carbon Disulfide		5.034	6.674	6.459	6.301	6.593	6.212	10.8
1,1-Dichloroethene	*	0.790	0.972	1.031	0.990	0.964	0.949	9.8*
1,1-Dichloroethane	*	2.655	3.594	3.360	3.740	3.873	3.444	14.0*
1,2-Dichloroethene (total)		0.823	1.173	1.091	1.167	1.228	1.096	14.6
Chloroform	*	2.763	3.082	2.902	3.222	3.302	3.054	7.3*
1,2-Dichloroethane	*	3.058	4.124	4.152	4.476	4.369	4.036	14.0*
2-Butanone		1.023	1.573	1.363	1.342	1.182	1.297	15.9
1,1,1-Trichloroethane	*	0.489	0.533	0.485	0.509	0.520	0.507	4.0*
Carbon Tetrachloride	*	0.341	0.387	0.398	0.390	0.398	0.383	6.2*
Bromodichloromethane	*	0.276	0.337	0.325	0.348	0.330	0.323	8.6*
1,2-Dichloropropane		0.364	0.421	0.378	0.434	0.420	0.403	7.6
cis-1,3-Dichloropropene	*	0.275	0.348	0.336	0.358	0.360	0.336	10.4*
Trichloroethene	*	0.329	0.380	0.361	0.364	0.358	0.358	5.2*
Dibromochloromethane	*	0.230	0.257	0.267	0.283	0.281	0.264	8.2*
1,1,2-Trichloroethane	*	0.215	0.266	0.259	0.262	0.269	0.254	8.8*
Benzene	*	1.029	1.200	1.141	1.098	1.080	1.110	5.8*
trans-1,3-Dichloropropene	*	1.046	1.239	1.258	1.293	1.306	1.229	8.6*
Bromoform	*	0.270	0.342	0.333	0.327	0.313	0.317	8.8*
4-Methyl-2-Pentanone		0.396	0.541	0.546	0.561	0.466	0.502	13.8
2-Hexanone		0.263	0.368	0.390	0.387	0.336	0.349	15.0
Tetrachloroethene	*	0.416	0.438	0.465	0.494	0.450	0.452	6.4*
1,1,2,2-Tetrachloroethane	*	0.396	0.503	0.575	0.576	0.498	0.510	14.4*
Toluene	*	1.352	1.510	1.605	1.617	1.503	1.517	7.0*
Chlorobenzene	*	0.872	1.001	1.010	1.070	0.972	0.985	7.4*
Ethylbenzene	*	0.431	0.486	0.502	0.518	0.467	0.481	7.0*
Styrene	*	0.895	0.980	0.981	1.041	0.909	0.961	6.2*
Xylene (total)		0.507	0.553	0.573	0.539	0.467	0.528	7.9
Toluene-d8		1.790	1.350	1.421	1.481	1.249	1.458	14.0
Bromofluorobenzene	*	1.013	0.609	0.620	0.628	0.499	0.674	29.2*<-
1,2-Dichloroethane-d4		2.611	2.804	2.632	2.861	2.935	2.768	5.1

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

QUANT REPORT

Operator ID: MSB
Output File: ^B2173::QT
Data File: >B2173::A4
Name: ;;;VSTD010
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Quant Rev: 6 Quant Time: 930201 09:54
Injected at: 930201 09:19
Dilution Factor: 1.00000

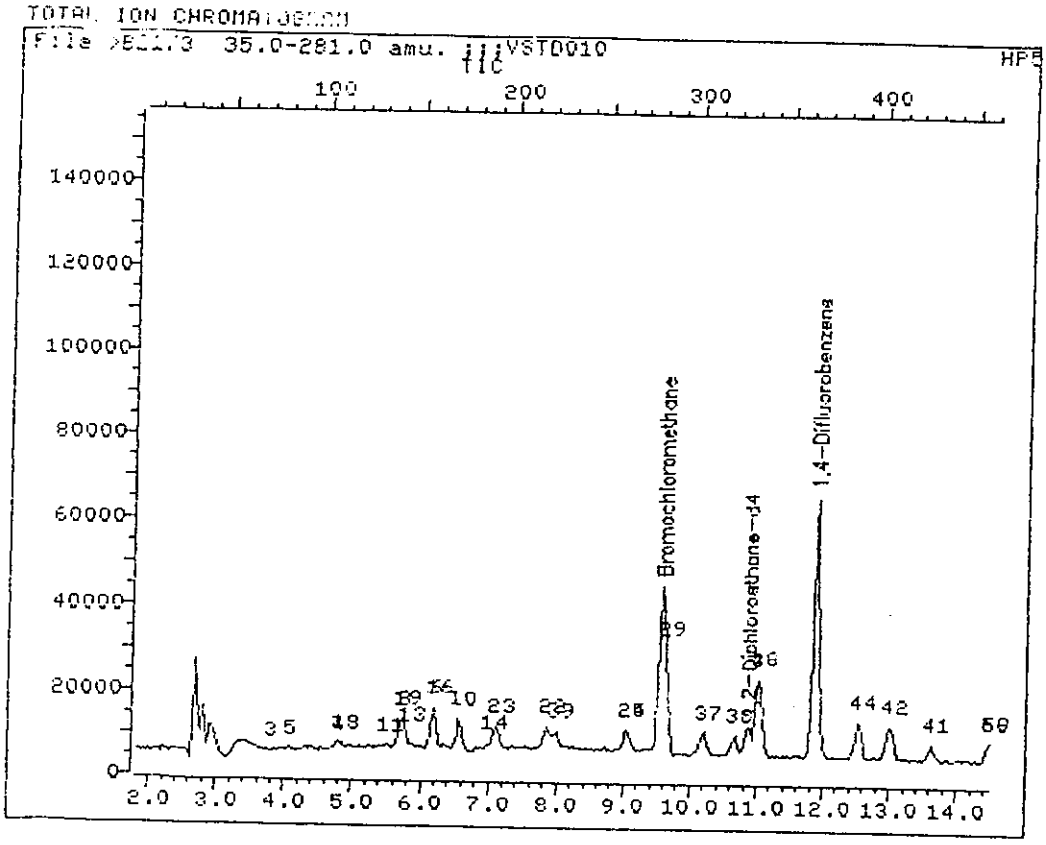
MH 2/1/93

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.57	127.8	31959	50.00	ug/L	91
3)	Chloromethane	3.77	49.8	4242	10.83	ug/L	100
4)	Bromomethane	4.76	93.7	4145M	8.14	ug/L	100
5)	Vinyl Chloride	4.05	61.8	6033	10.82	ug/L	100
6)	Chloroethane	6.20	63.8	1092M	4.14	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.73	101.0	4257	9.73	ug/L	93
10)	Methylene Chloride	6.56	83.8	8188	12.49	ug/L	96
11)	Acrolein	5.48	55.8	2184	30.52	ug/L	94
13)	Acetone	5.79	42.8	6661	12.63	ug/L	94
14)	Acrylonitrile	7.03	52.8	5983	26.21	ug/L	91
16)	Carbon Disulfide	6.20	76.8	32177	10.94	ug/L	98
18)	Trichlorofluoromethane	4.82	100.8	3376	4.91	ug/L	89
19)	1,1-Dichloroethene	5.73	96.8	5047	9.41	ug/L	97
22)	1,1-Dichloroethane	7.86	62.8	16968	8.81	ug/L	98
23)	1,2-Dichloroethene (total)t	7.11	96.8	5476	9.14	ug/L	91
24)	1,2-Dichloroethene (total)c	9.06	96.8	5047	7.79	ug/L	93
26)	2-Butanone	9.06	43.0	6539	13.25	ug/L	92
27)	1,1-Dichloropropene	14.82	74.8	13102	8.23	ug/L	83
29)	Chloroform	9.63	82.8	17661	7.86	ug/L	82
30)	1,2-Dichloroethane	11.04	61.8	19543	5.41	ug/L	96
31)	1,2-Dichloroethane-d4	10.87	64.8	16690	7.18	ug/L	79
35)	*1,4-Difluorobenzene	11.89	113.8	154421	50.00	ug/L	98
37)	1,1,1-Trichloroethane	10.18	96.8	15110	5.47	ug/L	96
38)	Carbon Tetrachloride	10.68	116.8	10538	4.49	ug/L	96
39)	Vinyl Acetate	8.00	42.8	25429	10.11	ug/L	94
41)	Bromodichloromethane	13.63	82.8	8529	6.01	ug/L	93
42)	1,2-Dichloropropane	13.00	62.8	11240	10.58	ug/L	96
43)	cis-1,3-Dichloropropene	14.82	74.8	13102	7.46	ug/L	96
44)	Trichloroethene	12.53	129.8	10156	9.11	ug/L	92
46)	Dibromochloromethane	17.69	128.7	7107	6.80	ug/L	97
47)	1,1,2-Trichloroethane	16.64	96.8	6628	9.25	ug/L	85
48)	Benzene	11.04	77.8	31787	10.44	ug/L	90
49)	trans-1,3-Dichloropropene	16.17	74.8	13569	7.09	ug/L	97
50)	2-Chloroethylvinylether	14.49	62.8	6177	10.57	ug/L	93
51)	1,2-Dibromoethane	18.05	106.9	9663	8.10	ug/L	96
52)	Bromoform	21.05	172.6	8354	6.91	ug/L	93
55)	*Chlorobenzene-d5	19.19	116.8	127524	50.00	ug/L	89
56)	4-Methyl-2-Pentanone	15.07	43.8	10109	10.96	ug/L	96
57)	2-Hexanone	17.25	43.8	6714	9.28	ug/L	76
58)	Tetrachloroethene	17.20	163.7	10598	8.33	ug/L	96
60)	1,1,2,2-Tetrachloroethane	21.87	83.8	10110	9.50	ug/L	88
62)	Toluene	15.65	91.0	34494	9.05	ug/L	89
63)	Toluene-d8	15.48	97.8	45648	13.78	ug/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
64)	Chlorobenzene	19.25	111.8	22230	8.82	ug/L	95
65)	Ethylbenzene	19.53	105.8	10994	8.70	ug/L	95
66)	Styrene	20.66	103.8	22836	8.96	ug/L	91
67)	Xylene (total)mp	19.77	105.8	25964	16.92	ug/L	92
68)	Xylene (total)o	20.63	105.8	12937	8.89	ug/L	95
69)	Methyl Cellosolve	14.49	57.0	1166	37.35	ug/L	97
82)	1,3-Dichlorobenzene	23.61	145.8	23485	9.50	ug/L	95
83)	1,4-Dichlorobenzene	23.75	145.8	19817	7.90	ug/L	95
84)	1,2-Dichlorobenzene	24.33	145.8	8454	8.30	ug/L	94
86)	Butylbenzene	15.65	90.8	34494	9.05	ug/L	37
93)	Bromofluorobenzene	21.68	173.9	25843	16.15	ug/L	77

* Compound is ISTD

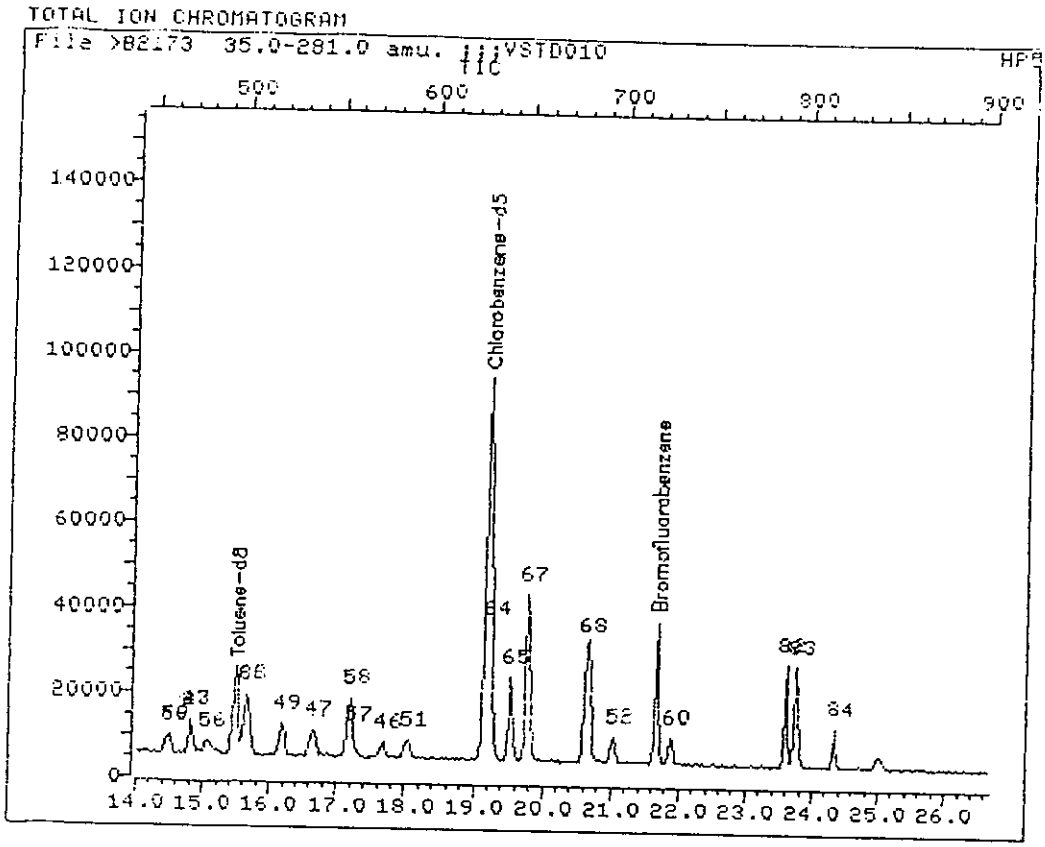


Data File: >B2173::A4 Quant Output File: ^B2173::QT
Name: ;;;VSTD010
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 09:54
Injected at: 930201 09:19

TIC page 1 of 2



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Name: ;;;VSTD010
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 09:54
Injected at: 930201 09:19

TIC page 2 of 2

QUANT REPORT

Operator ID: MSB
Output File: ^B2174::QT
Data File: >B2174::B2
Name: ;;;VSTD020
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Quant Rev: 6 Quant Time: 930201 10:47
Injected at: 930201 10:19
Dilution Factor: 1.00000

MH 2/1/93

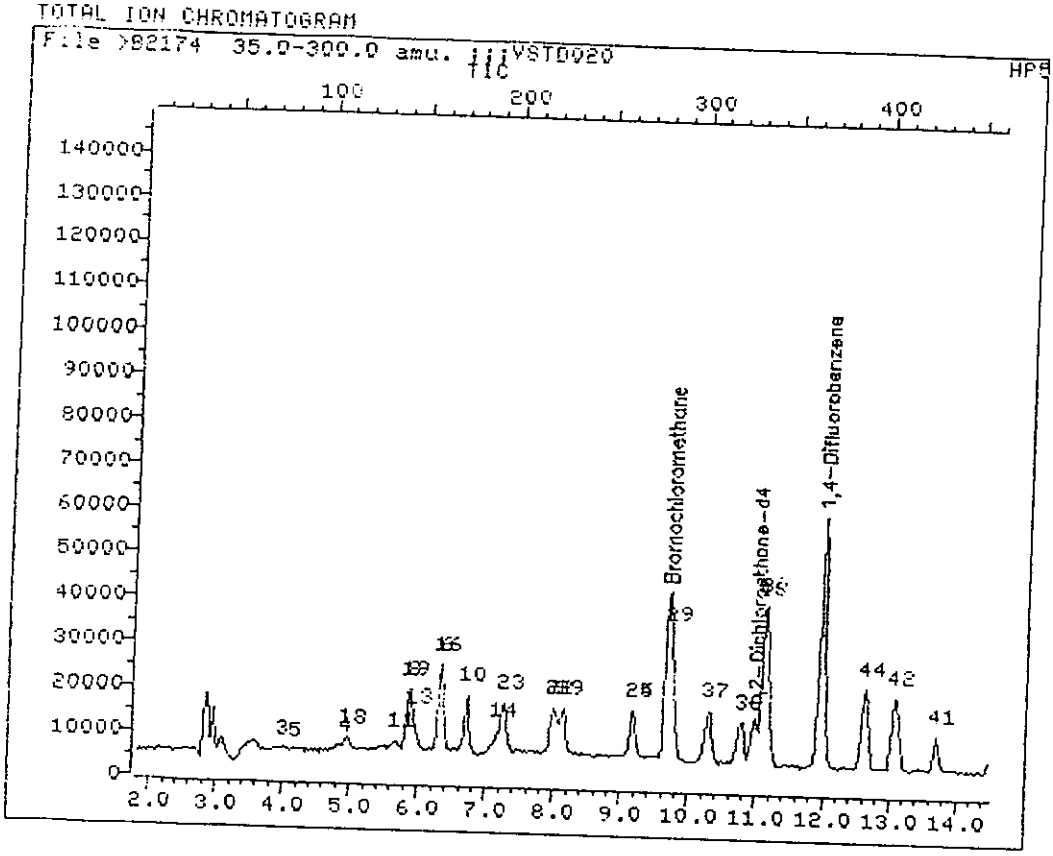
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.68	127.8	23617	50.00	ug/L	88
2)	Dichlorodifluoromethane	8.00	85.0	3239	35.12	ug/L	77
3)	Chloromethane	3.93	49.8	7301	25.22	ug/L	100
4)	Bromomethane	4.87	93.7	8617	22.91	ug/L	100
5)	Vinyl Chloride	4.13	61.8	10809	26.24	ug/L	100
6)	Chloroethane	6.34	63.8	5456M	27.98	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.87	101.0	5924	18.33	ug/L	88
10)	Methylene Chloride	6.72	83.8	13083	27.00	ug/L	88
11)	Acrolein	5.67	55.8	5470	103.43	ug/L	85
13)	Acetone	5.92	42.8	12886	33.07	ug/L	95
14)	Acrylonitrile	7.17	52.8	13441	93.77	ug/L	89
)	Carbon Disulfide	6.34	75.8	63044	29.00	ug/L	99
18)	Trichlorofluoromethane	4.96	100.8	6012	11.82	ug/L	94
19)	1,1-Dichloroethene	5.87	95.8	9183	23.16	ug/L	98
22)	1,1-Dichloroethane	8.00	62.8	33953	23.86	ug/L	99
23)	1,2-Dichloroethene (total)t	7.28	95.8	10709	24.19	ug/L	96
24)	1,2-Dichloroethene (total)c	9.18	95.8	11449	23.90	ug/L	93
25)	2-Butanone	9.18	43.0	14860	40.74	ug/L	88
27)	1,1-Dichloropropene	14.90	74.8	28951	24.62	ug/L	89
29)	Chloroform	9.74	82.8	29113	17.52	ug/L	93
30)	1,2-Dichloroethane	11.15	61.8	38956	14.60	ug/L	96
31)	1,2-Dichloroethane-d4	10.98	64.8	26488	15.42	ug/L	87
35)	*1,4-Difluorobenzene	11.97	113.8	134902	50.00	ug/L	97
37)	1,1,1-Trichloroethane	10.29	96.8	28784	11.94	ug/L	96
38)	Carbon Tetrachloride	10.79	116.8	20868	10.19	ug/L	96
39)	Vinyl Acetate	8.13	42.8	57904	26.36	ug/L	95
41)	Bromodichloromethane	13.71	82.8	18204	14.68	ug/L	93
42)	1,2-Dichloropropane	13.08	62.8	22708	24.47	ug/L	95
43)	cis-1,3-Dichloropropene	14.90	74.8	28951	18.87	ug/L	93
44)	Trichloroethene	12.64	129.8	20491	21.03	ug/L	92
46)	Dibromochloromethane	17.72	128.7	13886	15.20	ug/L	97
47)	1,1,2-Trichloroethane	16.70	96.8	14347	22.91	ug/L	90
48)	Benzene	11.12	77.8	64738	24.33	ug/L	91
49)	trans-1,3-Dichloropropene	16.26	74.8	28088	16.79	ug/L	98
50)	2-Chloroethylvinylether	14.54	62.8	13168	25.78	ug/L	89
51)	1,2-Dibromoethane	18.08	106.9	20190	19.38	ug/L	95
52)	Bromoform	21.04	172.6	18442	17.46	ug/L	93
)	*Chlorobenzene-d5	19.22	116.8	114909	50.00	ug/L	92
56)	4-Methyl-2-Pentanone	15.15	42.8	24848	29.88	ug/L	90
57)	2-Hexanone	17.28	42.8	16901	25.91	ug/L	92
58)	Tetrachloroethene	17.22	163.7	20147	17.58	ug/L	95
60)	1,1,2,2-Tetrachloroethane	21.87	82.8	23130	24.11	ug/L	89
62)	Toluene	15.73	91.0	69392	20.21	ug/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	15.56	97.8	62073	20.80	ug/L	95
64)	Chlorobenzene	19.28	111.8	46008	20.27	ug/L	94
65)	Ethylbenzene	19.55	105.8	22345	19.62	ug/L	97
66)	Styrene	20.68	103.8	45053	19.62	ug/L	93
67)	Xylene (total)mp	19.80	105.8	55859	40.40	ug/L	94
68)	Xylene (total)o	20.63	105.8	25429	19.39	ug/L	92
69)	Methyl Cellosolve	14.54	57.0	3058	108.70	ug/L	89
73)	1,2,3-Trichloropropane	14.90	74.8	28951	20.09	ug/L	75
82)	1,3-Dichlorobenzene	23.72	145.8	43991	19.74	ug/L	96
84)	1,2-Dichlorobenzene	24.30	145.8	18499	20.15	ug/L	95
86)	Butylbenzene	15.73	90.8	69397	20.21	ug/L	38
93)	Bromofluorobenzene	21.65	173.9	27994	19.42	ug/L	57

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B2174::B2
Name: ;;;VSTD020
Misc:

Quant Output File: ^B2174::QT

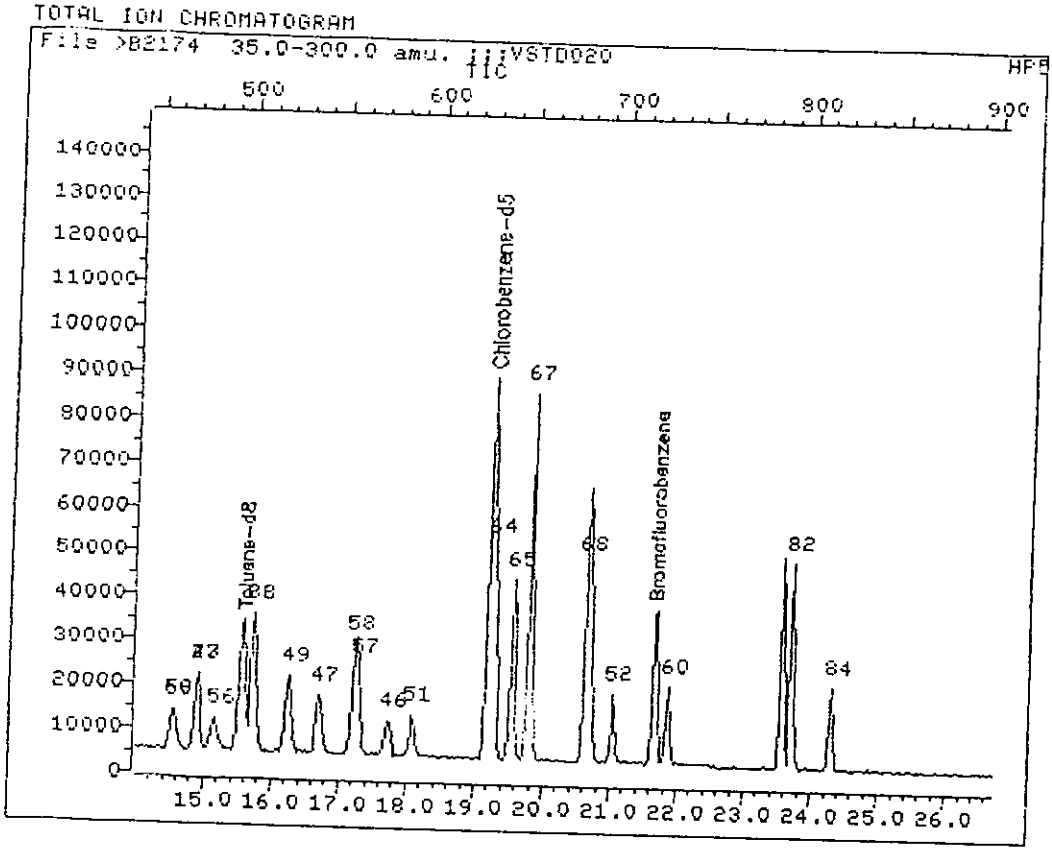
HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 10:47
Injected at: 930201 10:19

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



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Name: ;;;VSTD020
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 10:47
Injected at: 930201 10:19

TIC page 2 of 2

QUANT REPORT

Operator ID: MSB
Output File: ^B2175::QT
Data File: >B2175::B2
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Quant Rev: 6 Quant Time: 930201 11:32
Injected at: 930201 11:05
Dilution Factor: 1.00000

MH 2/1/93

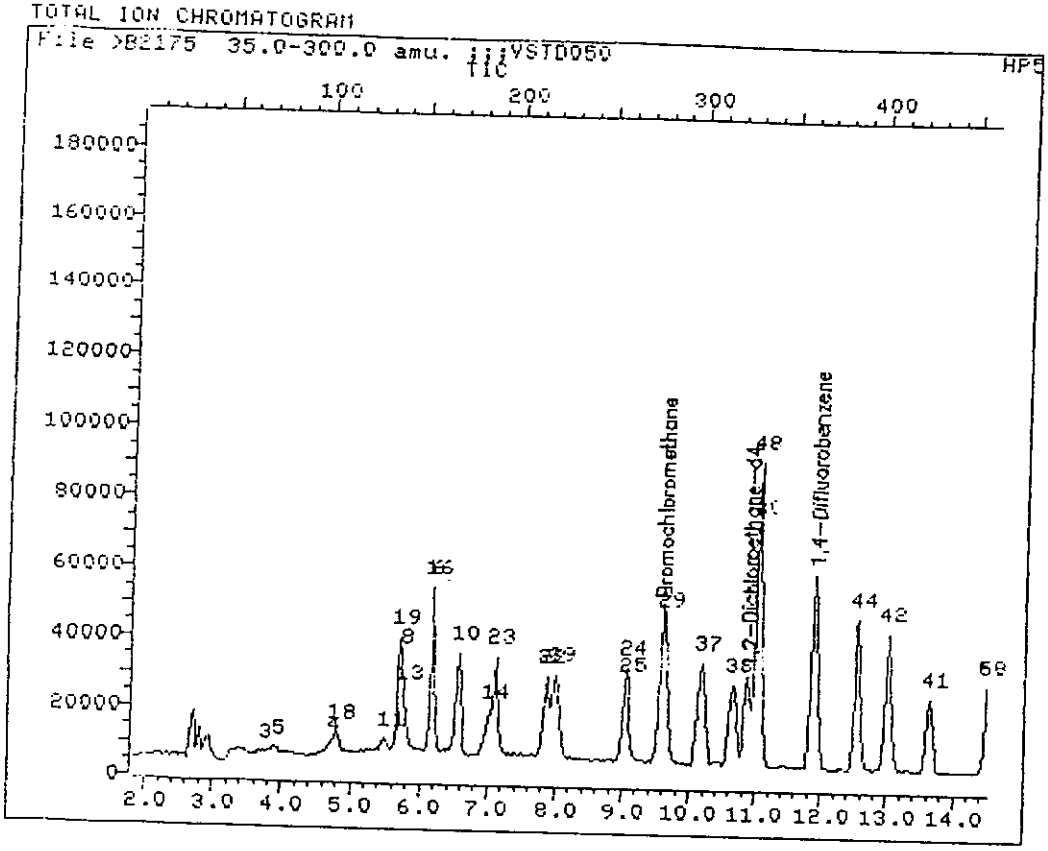
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.58	127.8	23579	50.00	ug/L	86
2)	Dichlorodifluoromethane	7.86	85.0	7642	82.99	ug/L	85
3)	Chloromethane	3.72	49.8	17245	59.67	ug/L	100
4)	Bromomethane	4.71	93.7	21254	56.60	ug/L	100
5)	Vinyl Chloride	3.91	61.8	26159	63.61	ug/L	100
6)	Chloroethane	6.18	63.8	17098M	87.83	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.74	101.0	15049	46.64	ug/L	92
10)	Methylene Chloride	6.57	83.8	29447	60.88	ug/L	96
11)	Acrolein	5.52	55.8	11855	224.52	ug/L	90
13)	Acetone	5.76	42.8	24162	62.10	ug/L	97
14)	Acrylonitrile	7.04	52.8	33029	230.80	ug/L	94
')	Carbon Disulfide	6.18	76.8	152289	70.16	ug/L	99
18)	Trichlorofluoromethane	4.80	100.8	15187	29.92	ug/L	96
19)	1,1-Dichloroethene	5.71	96.8	24314	61.42	ug/L	96
22)	1,1-Dichloroethane	7.86	62.8	79234	55.78	ug/L	99
23)	1,2-Dichloroethene (total)t	7.12	96.8	24248	54.86	ug/L	98
24)	1,2-Dichloroethene (total)c	9.05	96.8	27189	56.85	ug/L	92
25)	2-Butanone	9.08	43.0	32129	88.22	ug/L	92
27)	1,1-Dichloropropene	14.83	74.8	70025	59.64	ug/L	85
29)	Chloroform	9.63	82.8	68432	41.26	ug/L	98
30)	1,2-Dichloroethane	11.07	61.8	97908	36.76	ug/L	96
31)	1,2-Dichloroethane-d4	10.88	64.8	62052	36.18	ug/L	83
35)	*1,4-Difluorobenzene	11.90	113.8	135265	50.00	ug/L	93
37)	1,1,1-Trichloroethane	10.18	96.8	65629	27.14	ug/L	94
38)	Carbon Tetrachloride	10.65	116.8	53811	26.19	ug/L	94
39)	Vinyl Acetate	8.00	42.8	137121	62.26	ug/L	93
41)	Bromodichloromethane	13.64	82.8	43954	35.35	ug/L	90
42)	1,2-Dichloropropane	13.00	62.8	51138	54.97	ug/L	95
43)	cis-1,3-Dichloropropene	14.83	74.8	70025	45.51	ug/L	93
44)	Trichloroethene	12.56	129.8	48850	50.01	ug/L	95
46)	Dibromochloromethane	17.70	128.7	36093	39.40	ug/L	94
47)	1,1,2-Trichloroethane	16.65	96.8	35072	55.86	ug/L	87
48)	Benzene	11.04	77.8	154283	57.83	ug/L	90
49)	trans-1,3-Dichloropropene	16.21	74.8	71496	42.62	ug/L	97
50)	2-Chloroethylvinylether	14.49	62.8	35733	69.78	ug/L	90
51)	1,2-Dibromoethane	18.03	106.9	51498	49.28	ug/L	98
52)	Bromoform	21.00	172.6	45016	42.50	ug/L	98
')	*Chlorobenzene-d5	19.17	116.8	108229	50.00	ug/L	91
55)	4-Methyl-2-Pentanone	15.07	42.8	59143	75.50	ug/L	92
57)	2-Hexanone	17.23	42.8	42234	68.75	ug/L	95
58)	Tetrachloroethene	17.17	163.7	50279	46.57	ug/L	92
60)	1,1,2,2-Tetrachloroethane	21.85	82.8	62274	68.92	ug/L	89
62)	Toluene	15.68	91.0	173705	53.70	ug/L	89

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	15.49	97.8	153841	54.74	ug/L	89
64)	Chlorobenzene	19.26	111.8	109340	51.13	ug/L	96
65)	Ethylbenzene	19.50	105.8	54435	50.65	ug/L	90
66)	Styrene	20.64	103.8	106218	49.12	ug/L	88
67)	Xylene (total)mp	19.75	105.8	128541	98.70	ug/L	95
68)	Xylene (total)o	20.61	105.8	62009	50.20	ug/L	96
69)	Methyl Cellosolve	14.49	57.0	7870	297.00	ug/L	86
73)	1,2,3-Trichloropropane	14.83	74.8	70025	51.59	ug/L	75
82)	1,3-Dichlorobenzene	23.70	145.8	104289	49.69	ug/L	99
83)	1,4-Dichlorobenzene	23.70	145.8	104289	48.96	ug/L	99
84)	1,2-Dichlorobenzene	24.28	145.8	45821	52.99	ug/L	92
86)	Butylbenzene	15.68	90.8	173705	53.70	ug/L	36
93)	Bromofluorobenzene	21.63	173.9	67064	49.39	ug/L	77

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B2175::B2 Quant Output File: ^B2175::QT
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 11:32
Injected at: 930201 11:05

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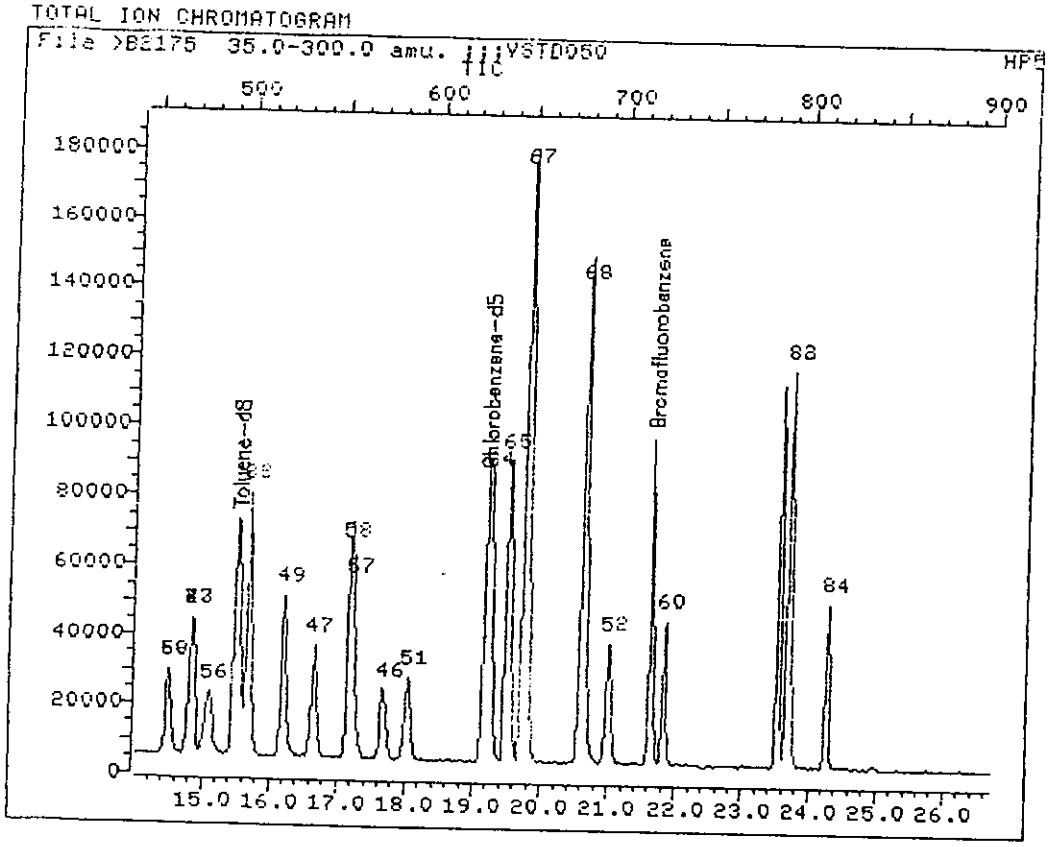
TOTAL ION CHROMATOGRAM



Data File: >B2175::B2 Quant Output File: ^B2175::QT
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 11:32
Injected at: 930201 11:05

TIC page 2 of 2

QUANT REPORT

Operator ID: MSB Quant Rev: 6 Quant Time: 930201 12:04
Output File: ^B2176::QT Injected at: 930201 11:36
Data File: >B2176::B2 Dilution Factor: 1.00000
Name: ;;;VSTD100
Misc: HP5995 B ;;;LLW;DF1 ;B1886

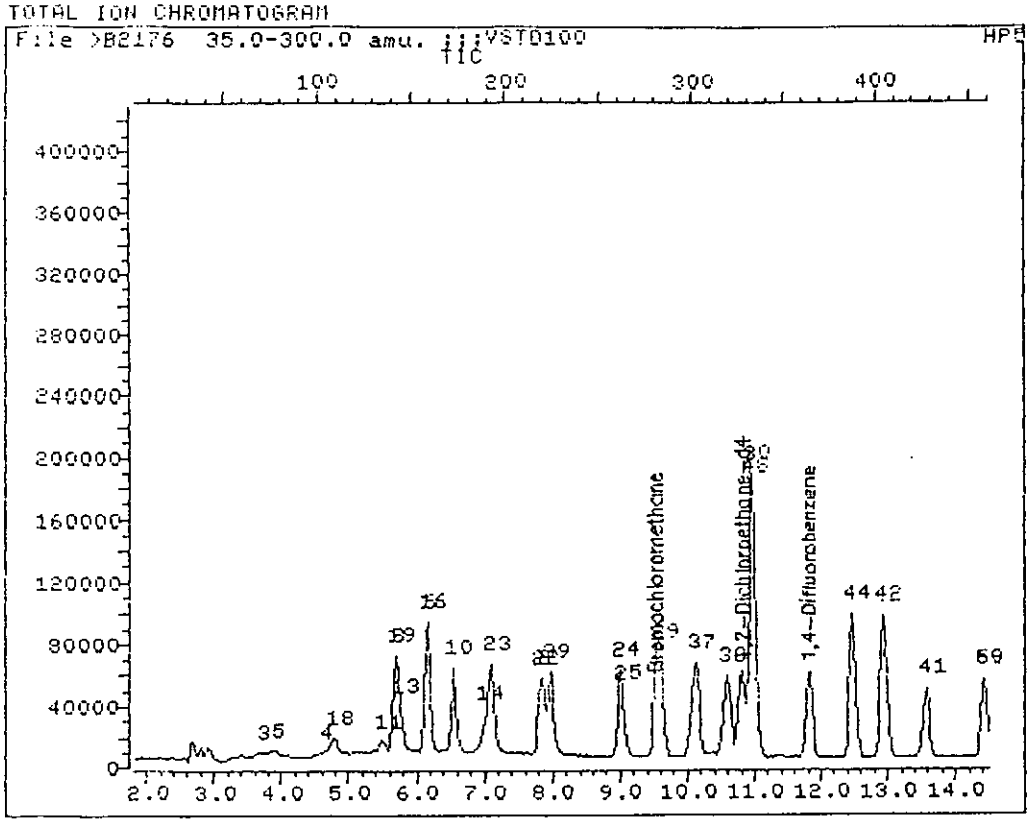
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.52	127.8	23145	50.00	ug/L	90
2)	Dichlorodifluoromethane	7.83	85.0	16119	178.34	ug/L	75
3)	Chloromethane	3.69	49.8	33307	117.40	ug/L	100
4)	Bromomethane	4.63	93.7	43348M	117.61	ug/L	100
5)	Vinyl Chloride	3.91	61.8	53225	131.85	ug/L	100
6)	Chloroethane	6.17	63.8	36449M	190.75	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.70	101.0	35435	111.87	ug/L	89
10)	Methylene Chloride	6.56	83.8	56318	118.61	ug/L	87
11)	Acrolein	5.51	55.8	23130	446.26	ug/L	94
13)	Acetone	5.76	42.8	46205	120.98	ug/L	99
14)	Acrylonitrile	7.03	52.8	63874	454.70	ug/L	90
)	Carbon Disulfide	6.17	75.8	291657	136.88	ug/L	98
)	Trichlorofluoromethane	4.79	100.8	29012	58.22	ug/L	96
19)	1,1-Dichloroethene	5.70	95.8	45815	117.91	ug/L	94
22)	1,1-Dichloroethane	7.83	62.8	173143	124.17	ug/L	93
23)	1,2-Dichloroethene (total)t	7.11	95.8	49981	115.20	ug/L	98
24)	1,2-Dichloroethene (total)c	9.02	95.8	58081	123.72	ug/L	95
25)	2-Butanone	9.05	43.0	62137	173.82	ug/L	88
27)	1,1-Dichloropropene	14.77	74.8	158098	137.17	ug/L	87
29)	Chloroform	9.60	82.8	149145	91.61	ug/L	98
30)	1,2-Dichloroethane	10.98	61.8	207194	79.25	ug/L	99
31)	1,2-Dichloroethane-d4	10.81	64.8	132426	78.66	ug/L	88
35)	*1,4-Difluorobenzene	11.81	113.8	143500	50.00	ug/L	93
37)	1,1,1-Trichloroethane	10.12	96.8	146179	56.99	ug/L	97
38)	Carbon Tetrachloride	10.59	116.8	111809	51.30	ug/L	94
39)	Vinyl Acetate	7.97	42.8	293801	125.74	ug/L	92
41)	Bromodichloromethane	13.58	82.8	99827	75.68	ug/L	94
42)	1,2-Dichloropropane	12.94	62.8	124665	126.31	ug/L	93
43)	cis-1,3-Dichloropropene	14.77	74.8	158098	96.86	ug/L	90
44)	Trichloroethene	12.47	129.8	104375	100.72	ug/L	95
46)	Dibromochloromethane	17.64	128.7	81353	83.71	ug/L	95
47)	1,1,2-Trichloroethane	16.59	96.8	75107	112.77	ug/L	88
48)	Benzene	10.95	77.8	315259	111.38	ug/L	91
49)	trans-1,3-Dichloropropene	16.15	74.8	155902	87.61	ug/L	93
50)	2-Chloroethylvinylether	14.43	62.8	76101	140.09	ug/L	89
51)	1,2-Dibromoethane	18.03	106.9	113636	102.52	ug/L	85
52)	Bromoform	21.02	172.6	93849	83.52	ug/L	86
)	*Chlorobenzene-d5	19.17	116.8	111503	50.00	ug/L	94
)	4-Methyl-2-Pentanone	15.01	42.8	124997	154.88	ug/L	93
57)	2-Hexanone	17.20	42.8	86322	136.38	ug/L	93
58)	Tetrachloroethene	17.14	163.7	110066	98.95	ug/L	97
60)	1,1,2,2-Tetrachloroethane	21.88	82.8	128444	137.97	ug/L	87
62)	Toluene	15.62	91.0	360525	108.18	ug/L	97

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	15.43	97.8	330216	114.04	ug/L	87
64)	Chlorobenzene	19.22	111.8	238538	108.28	ug/L	94
65)	Ethylbenzene	19.50	105.8	115802	104.61	ug/L	95
66)	Styrene	20.66	103.8	232139	104.20	ug/L	94
67)	Xylene (total)mp	19.78	105.8	250412	186.62	ug/L	88
68)	Xylene (total)o	20.60	105.8	120091	94.37	ug/L	91
69)	Methyl Cellosolve	14.43	57.0	16070	588.65	ug/L	89
73)	1,2,3-Trichloropropane	14.77	74.8	158098	113.06	ug/L	74
76)	4-Chlorotoluene	17.67	90.8	7387	7387.00	NO CALIB	64
81)	1,4-Dichloro-2-Butene	20.66	74.8	14663	68.52	ug/L	65
82)	1,3-Dichlorobenzene	23.59	145.8	210313	97.27	ug/L	91
83)	1,4-Dichlorobenzene	23.73	145.8	204049	92.98	ug/L	94
84)	1,2-Dichlorobenzene	24.31	145.8	98181	110.21	ug/L	93
86)	Butylbenzene	15.62	90.8	360525	108.18	ug/L	37
93)	Bromofluorobenzene	21.65	173.9	140000	100.08	ug/L	69

* Compound is ISTD

TOTAL ION CHROMATOGRAM



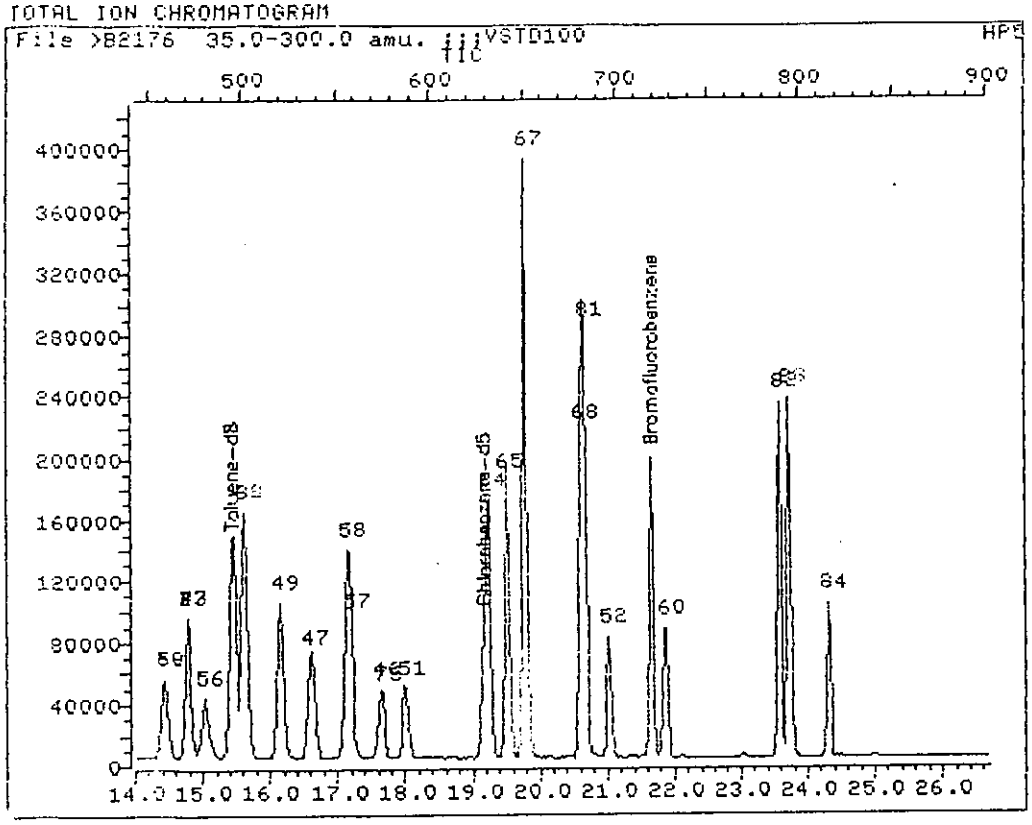
Data File: >B2176::B2 Quant Output File: ^B2176::QT
Name: ;;;VSTD100
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 12:04
Injected at: 930201 11:36

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >B2176::B2 Quant Output File: ^B2176::QT
Name: ;;;VSTD100
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 12:04
Injected at: 930201 11:36

TIC page 2 of 2

QUANT REPORT

Operator ID: MSB Quant Rev: 6 Quant Time: 930201 13:07
Output File: ^B2178::QT Injected at: 930201 12:40
Data File: >B2178::B2 Dilution Factor: 1.00000
Name: ;;;VSTD200
Misc: HP5995 B ;;;LLW;DF1 ;B1886

MH 2/1/93

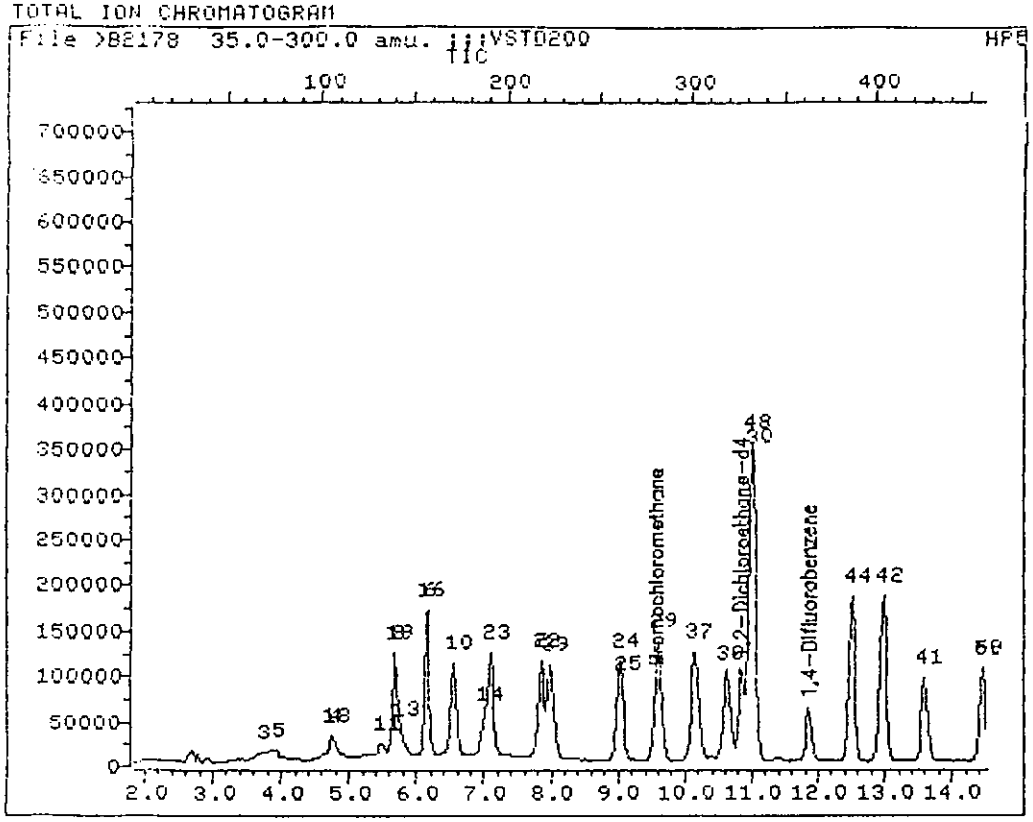
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.56	127.8	22168	50.00	ug/L	88
2)	Dichlorodifluoromethane	7.85	85.0	30305	350.07	ug/L	78
3)	Chloromethane	3.70	49.8	84699	311.72	ug/L	100
4)	Bromomethane	4.75	93.7	78516M	222.41	ug/L	100
5)	Vinyl Chloride	3.92	61.8	106406	275.20	ug/L	100
6)	Chloroethane	6.16	63.8	73777M	403.12	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.69	101.0	217040M	715.40	ug/L	92
10)	Methylene Chloride	6.55	83.8	107881	237.23	ug/L	91
11)	Acrolein	5.50	55.8	41352	833.00	ug/L	94
13)	Acetone	5.78	42.8	69559	190.16	ug/L	98
14)	Acrylonitrile	7.02	52.8	114993	854.69	ug/L	96
)	Carbon Disulfide	6.16	75.8	584621	286.47	ug/L	99
18)	Trichlorofluoromethane	4.75	100.8	92000M	192.76	ug/L	96
19)	1,1-Dichloroethene	5.69	95.8	85508	229.77	ug/L	89
22)	1,1-Dichloroethane	7.85	62.8	343415	257.13	ug/L	96
23)	1,2-Dichloroethene (total)t	7.10	95.8	101700	244.74	ug/L	96
24)	1,2-Dichloroethene (total)c	9.04	95.8	116029	258.04	ug/L	94
25)	2-Butanone	9.06	43.0	104798	306.08	ug/L	92
27)	1,1-Dichloropropene	14.78	74.8	311970	282.60	ug/L	86
29)	Chloroform	9.62	82.8	292786	187.76	ug/L	98
30)	1,2-Dichloroethane	11.03	61.8	387428	154.73	ug/L	99
31)	1,2-Dichloroethane-d4	10.83	64.8	260231	161.39	ug/L	88
35)	*1,4-Difluorobenzene	11.85	113.8	140642	50.00	ug/L	95
37)	1,1,1-Trichloroethane	10.14	96.8	292334	116.28	ug/L	94
38)	Carbon Tetrachloride	10.61	116.8	224124	104.92	ug/L	95
39)	Vinyl Acetate	7.99	42.8	551340	240.76	ug/L	94
41)	Bromodichloromethane	13.60	82.8	185671	143.62	ug/L	92
42)	1,2-Dichloropropane	12.99	62.8	236337	244.32	ug/L	94
43)	cis-1,3-Dichloropropene	14.78	74.8	311970	195.01	ug/L	92
44)	Trichloroethene	12.52	129.8	201531	198.43	ug/L	94
46)	Dibromochloromethane	17.66	128.7	158337	166.24	ug/L	97
47)	1,1,2-Trichloroethane	16.63	96.8	151559	232.18	ug/L	90
48)	Benzene	11.00	77.8	607488	218.99	ug/L	90
49)	trans-1,3-Dichloropropene	16.16	74.8	308487	176.88	ug/L	94
50)	2-Chloroethylvinylether	14.45	62.8	147005	276.11	ug/L	95
51)	1,2-Dibromoethane	18.02	106.9	218166	200.82	ug/L	86
52)	Bromoform	21.01	172.6	176069	159.87	ug/L	99
)	*Chlorobenzene-d5	19.16	116.8	117135	50.00	ug/L	92
55)	4-Methyl-2-Pentanone	15.03	42.8	218373	257.57	ug/L	95
57)	2-Hexanone	17.22	42.8	157561	236.97	ug/L	91
58)	Tetrachloroethene	17.16	163.7	210824	180.42	ug/L	97
60)	1,1,2,2-Tetrachloroethane	21.87	82.8	233787	238.55	ug/L	87
62)	Toluene	15.64	91.0	704152	201.13	ug/L	92

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	15.45	97.8	585224	192.39	ug/L	92
64)	Chlorobenzene	19.21	111.8	455507	196.82	ug/L	93
65)	Ethylbenzene	19.49	105.8	218709	188.39	ug/L	97
66)	Styrene	20.65	103.8	425843	181.96	ug/L	95
67)	Xylene (total)mp	19.77	105.8	454027	322.10	ug/L	88
68)	Xylene (total)o	20.59	105.8	218748	163.62	ug/L	89
69)	Methyl Cellosolve	14.45	57.0	31243	1089.41	ug/L	82
73)	1,2,3-Trichloropropane	14.78	74.8	311970	212.38	ug/L	75
76)	4-Chlorotoluene	17.66	90.8	15294	15294.00	NO CALIB	69
81)	1,4-Dichloro-2-Butene	20.65	74.8	27144	120.75	ug/L	64
82)	1,3-Dichlorobenzene	23.58	145.8	387423	170.56	ug/L	96
83)	1,4-Dichlorobenzene	23.74	145.8	369597	160.32	ug/L	95
84)	1,2-Dichlorobenzene	24.32	145.8	175573	187.62	ug/L	94
86)	Butylbenzene	15.64	90.8	704152	201.13	ug/L	37
93)	Bromofluorobenzene	21.64	173.9	233868	159.15	ug/L	74

* Compound is ISTD

TOTAL ION CHROMATOGRAM



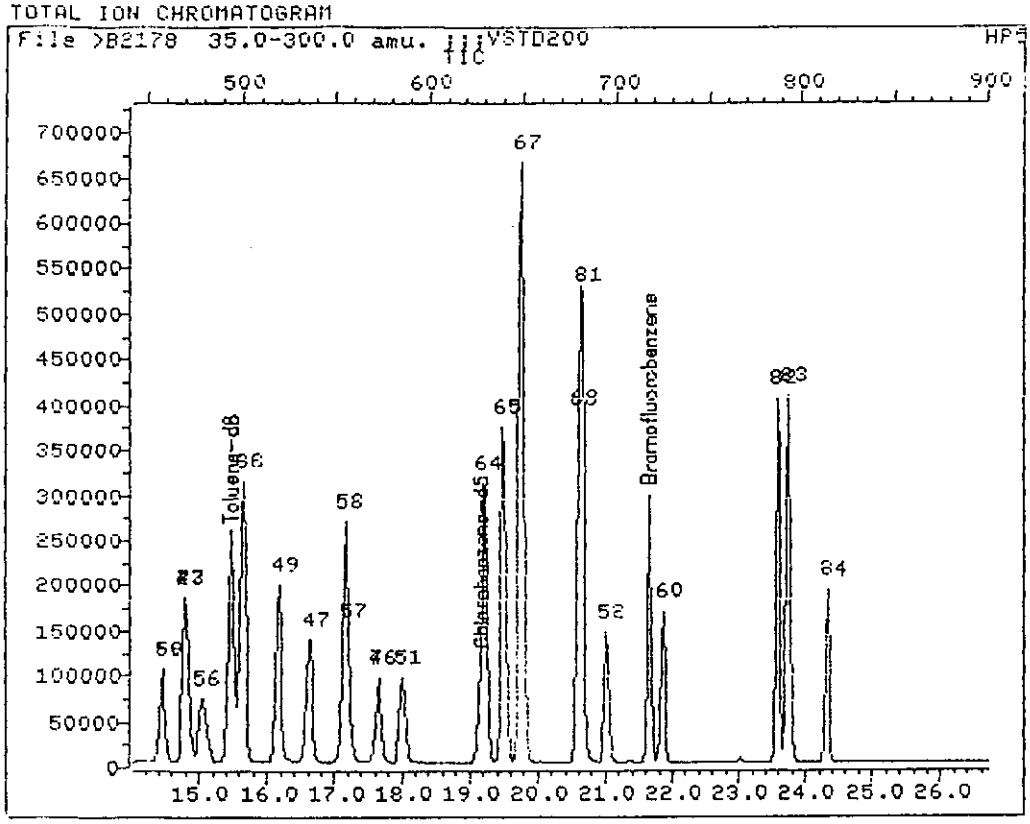
Data File: >B2178::B2 Quant Output File: ^B2178::QT
Name: ;;;VSTD200
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 13:07
Injected at: 930201 12:40

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >B2178::B2 Quant Output File: ^B2178::QT
Name: ;;;VSTD200
Misc: HP5995 B ;;;LLW;DF1 ;B1886

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 13:07
Injected at: 930201 12:40

TIC page 2 of 2

7A
VOLATILE CONTINUING CALIBRATION CHECK

091

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Instrument ID: HP5995B Calibration Date: 02/01/93 Time: 1427

Lab File ID: B2179.D Init. Calibration Date(s): 02/01/93

Heated Purge: (Y/N) N Init. Calibration Times: 0919 1240

GC Column:007-624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.769	0.776		-1.0	
Bromomethane	0.857	0.817	0.100	4.6	25.0
Vinyl Chloride	1.109	1.200	0.100	-8.1	25.0
Chloroethane	0.619	0.616		0.5	
Methylene Chloride	1.270	1.208		4.9	
Acetone	1.043	1.310		-25.7	
Carbon Disulfide	6.212	5.484		11.7	
1,1-Dichloroethene	0.949	0.929	0.100	2.2	25.0
1,1-Dichloroethane	3.444	3.454	0.200	-0.3	25.0
1,2-Dichloroethene (total)	1.096	1.096		0.0	
Chloroform	3.054	2.977	0.200	2.5	25.0
1,2-Dichloroethane	4.036	4.042	0.100	-0.2	25.0
2-Butanone	1.297	1.622		-25.1	
1,1,1-Trichloroethane	0.507	0.501	0.100	1.2	25.0
Carbon Tetrachloride	0.383	0.393	0.100	-2.6	25.0
Bromodichloromethane	0.323	0.326	0.200	-0.9	25.0
1,2-Dichloropropane	0.403	0.393		2.7	
cis-1,3-Dichloropropene	0.336	0.330	0.200	1.6	25.0
Trichloroethene	0.358	0.383	0.300	-7.0	25.0
Dibromochloromethane	0.264	0.268	0.100	-1.7	25.0
1,1,2-Trichloroethane	0.254	0.252	0.100	0.7	25.0
Benzene	1.110	1.123	0.500	-1.3	25.0
trans-1,3-Dichloropropene	1.229	1.226	0.100	0.2	25.0
Bromoform	0.317	0.360	0.100	-13.5	25.0
4-Methyl-2-Pentanone	0.502	0.601		-19.8	
2-Hexanone	0.349	0.477		-36.8	
Tetrachloroethene	0.452	0.443	0.200	2.2	25.0
1,1,2,2-Tetrachloroethane	0.510	0.550	0.500	-8.0	25.0
Toluene	1.517	1.481	0.400	2.4	25.0
Chlorobenzene	0.985	0.945	0.500	4.1	25.0
Ethylbenzene	0.481	0.469	0.100	2.5	25.0
Styrene	0.961	0.860	0.300	10.5	25.0
Xylene (total)	0.528	0.535	0.300	-1.3	25.0
Toluene-d8	1.458	1.288		11.7	
Bromofluorobenzene	0.674	0.634	0.200	5.9	25.0
1,2-Dichloroethane-d4	2.768	2.674		3.4	

All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSB Quant Rev: 6 Quant Time: 93 201 14:55
Output File: ^B2179::QT Injected at: 93[illegible]01 14:27
Data File: >B2179::B2 Dilution Factor: 1.00000
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1887

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

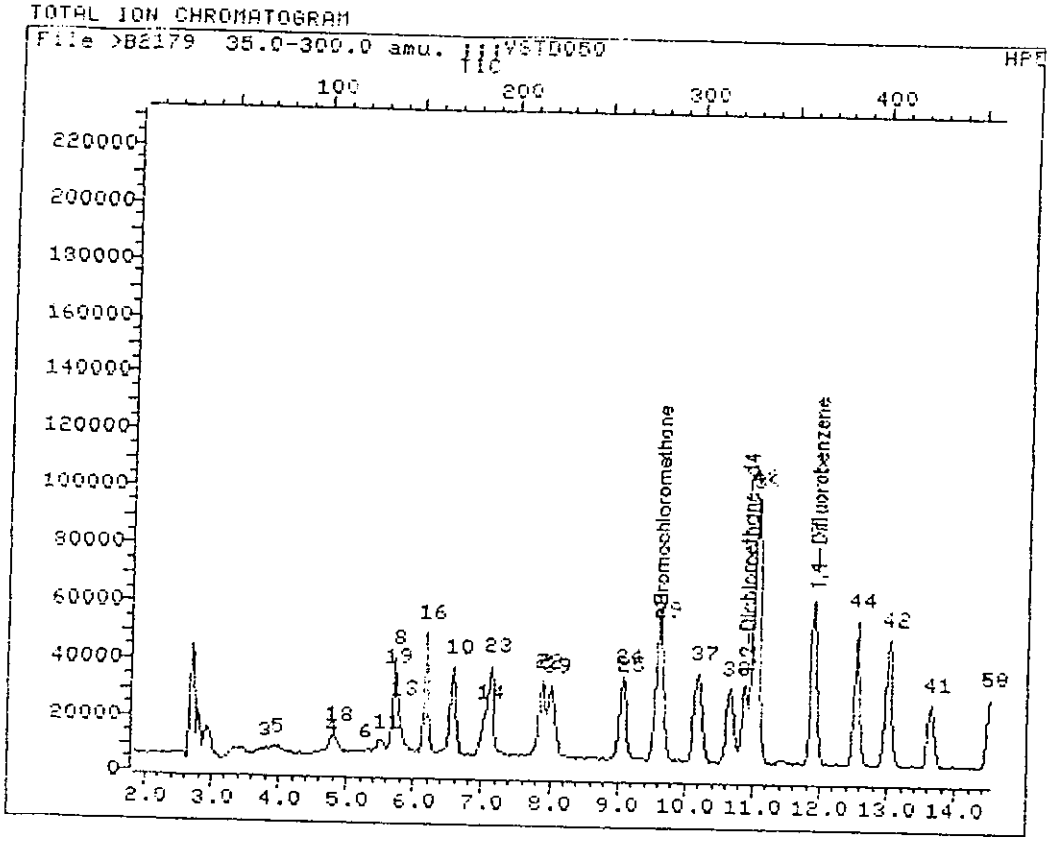
MH 2/1/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.59	127.8	26503	50.00	ug/L	82
2)	Dichlorodifluoromethane	7.88	85.0	[illegible]87	82.97	ug/L	79
3)	Chloromethane	3.73	49.9	20566	63.31	ug/L	100
4)	Bromomethane	4.73	93.7	21461	51.32	ug/L	100
5)	Vinyl Chloride	3.93	61.8	31795	68.78	ug/L	100
6)	Chloroethane	5.22	63.8	163[illegible]9M	74.58	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.72	101.0	14015	38.64	ug/L	96
10)	Methylene Chloride	6.58	83.8	32[illegible]10	58.88	ug/L	91
11)	Acrolein	5.53	55.8	12343	207.97	ug/L	95
13)	Acetone	5.78	42.8	34[illegible]29	79.41	ug/L	98
14)	Acrylonitrile	7.05	52.8	35393	220.03	ug/L	97
)	Carbon Disulfide	6.19	76.8	145[illegible]60	59.57	ug/L	98
16)	Trichlorofluoromethane	4.81	100.8	15464	27.10	ug/L	93
19)	1,1-Dichloroethene	5.69	96.8	24617	55.33	ug/L	91
22)	1,1-Dichloroethane	7.88	62.8	91537	57.33	ug/L	92
23)	1,2-Dichloroethene (total)t	7.13	96.8	27[illegible]18	54.99	ug/L	96
24)	1,2-Dichloroethene (total)c	9.07	96.8	30766	57.23	ug/L	93
25)	2-Butanone	9.09	43.0	43[illegible]01	105.05	ug/L	96
27)	1,1-Dichloropropene	14.84	74.8	76954	58.31	ug/L	89
29)	Chloroform	9.65	82.8	78[illegible]90	42.32	ug/L	98
30)	1,2-Dichloroethane	11.05	61.8	107133	39.79	ug/L	97
31)	1,2-Dichloroethane-d4	10.89	64.8	70862	36.76	ug/L	88
35)	*1,4-Difluorobenzene	11.91	113.8	151410	50.00	ug/L	94
37)	1,1,1-Trichloroethane	10.20	96.8	75925	28.05	ug/L	96
38)	Carbon Tetrachloride	10.67	116.8	59459	25.86	ug/L	95
39)	Vinyl Acetate	8.02	42.8	147[illegible]56	59.73	ug/L	95
41)	Bromodichloromethane	13.65	82.8	49370	35.47	ug/L	95
42)	1,2-Dichloropropane	13.02	62.8	59[illegible]45	57.08	ug/L	93
43)	cis-1,3-Dichloropropene	14.84	74.8	76954	44.68	ug/L	93
44)	Trichloroethene	12.55	129.8	58[illegible]58	53.10	ug/L	94
46)	Dibromochloromethane	17.69	128.7	40620	39.61	ug/L	97
47)	1,1,2-Trichloroethane	16.66	96.8	38[illegible]11	54.37	ug/L	86
48)	Benzene	11.03	77.8	170103	56.96	ug/L	91
49)	trans-1,3-Dichloropropene	16.19	74.8	77[illegible]90	41.53	ug/L	98
50)	2-Chloroethylvinylether	14.51	62.8	36741	64.10	ug/L	91
51)	1,2-Dibromoethane	18.05	106.9	52713	45.07	ug/L	98
52)	Bromoform	21.02	172.6	54465	45.94	ug/L	95
)	*Chlorobenzene-d5	19.19	116.8	122863	50.00	ug/L	92
[illegible])	4-Methyl-2-Pentanone	15.09	42.8	73869	83.07	ug/L	92
57)	2-Hexanone	17.24	42.8	58[illegible]48	84.09	ug/L	93
58)	Tetrachloroethene	17.19	163.7	54375	44.37	ug/L	95
60)	1,1,2,2-Tetrachloroethane	21.87	82.8	67621	65.92	ug/L	89
62)	Toluene	15.67	91.0	181999	49.56	ug/L	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	15.50	97.8	158199	49.59	ug/L	89
64)	Chlorobenzene	19.25	111.8	116046	47.81	ug/L	92
65)	Ethylbenzene	19.53	105.8	57632	47.33	ug/L	98
66)	Styrene	20.66	103.8	105669	43.05	ug/L	81
67)	Xylene (total)mp	19.77	105.8	137459	92.97	ug/L	94
68)	Xylene (total)o	20.63	105.8	65708	46.86	ug/L	93
69)	Methyl Cellosolve	14.51	57.0	7497	249.23	ug/L	80
73)	1,2,3-Trichloropropane	14.84	74.8	76954	49.94	ug/L	74
76)	4-Chlorotoluene	17.69	90.8	4050	4050.00	NO CALIB	68
82)	1,3-Dichlorobenzene	23.70	145.8	117012	49.11	ug/L	92
84)	1,2-Dichlorobenzene	24.28	145.8	48289	49.20	ug/L	96
86)	Butylbenzene	15.67	90.8	181999	49.56	ug/L	36
93)	Bromofluorobenzene	21.65	173.9	77906	50.54	ug/L	60

* Compound is ISTD

TOTAL ION CHROMATOGRAM



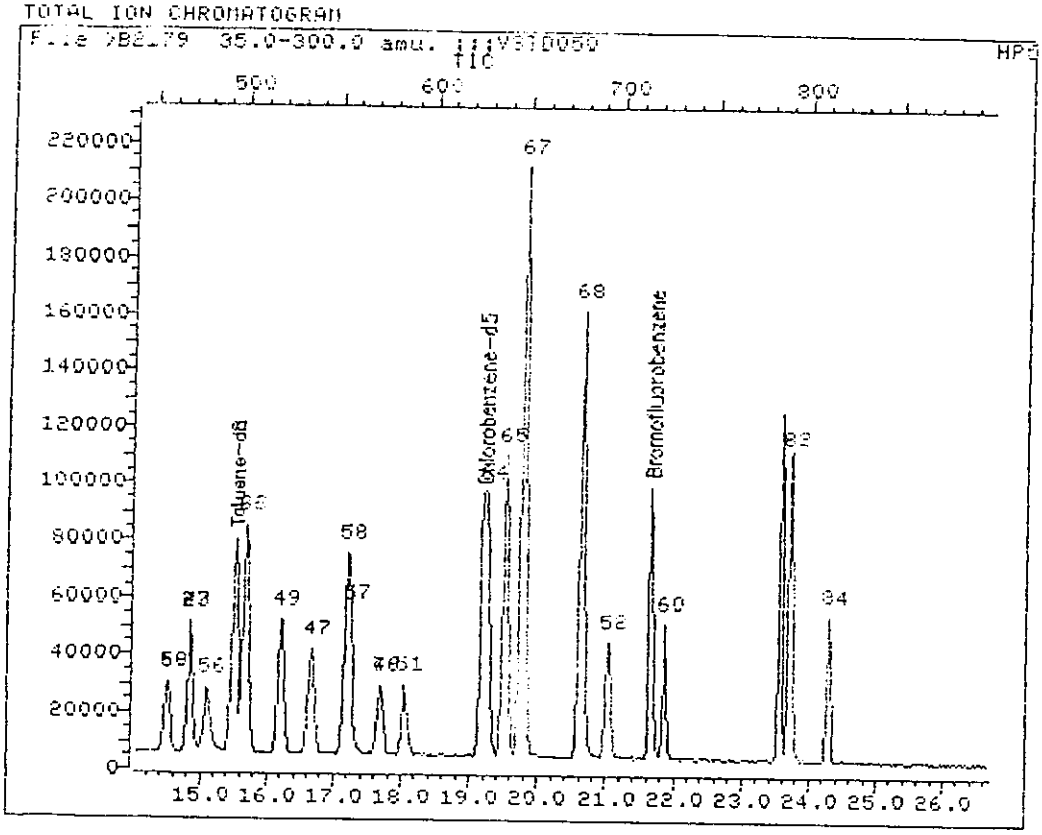
Data File: >B2179::B2 Quant Output File: ^B2179::QT
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_!FBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 14:55
Injected at: 930201 14:27

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >B2179::B2 Quant Output File: ^B2179::QT
Name: ;;;VSTD050
Misc: HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930122 12:30

Operator ID: MSB
Quant Time: 930201 14:55
Injected at: 930201 14:27

TIC page 2 of 2

7A
VOLATILE CONTINUING CALIBRATION CHECK

096

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Instrument ID: HP5995B Calibration Date: 02/02/93 Time: 0933

Lab File ID: B2194.D Init. Calibration Date(s): 02/01/93

Heated Purge: (Y/N) N Init. Calibration Times: 0919 1240

GC Column:007-624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.769	1.173		-52.6	
Bromomethane	0.857	0.902	0.100	-5.2	25.0
Vinyl Chloride	1.109	1.200	0.100	-8.1	25.0
Chloroethane	0.619	0.715		-15.5	
Methylene Chloride	1.270	1.096		13.6	
Acetone	1.043	0.694		33.4	
Carbon Disulfide	6.212	5.637		9.3	
1,1-Dichloroethene	0.949	1.017	0.100	-7.2	25.0
1,1-Dichloroethane	3.444	3.221	0.200	6.5	25.0
1,2-Dichloroethene (total)	1.096	1.075		2.0	
Chloroform	3.054	2.975	0.200	2.6	25.0
1,2-Dichloroethane	4.036	3.828	0.100	5.2	25.0
2-Butanone	1.297	1.091		15.9	
1,1,1-Trichloroethane	0.507	0.520	0.100	-2.5	25.0
Carbon Tetrachloride	0.383	0.391	0.100	-2.2	25.0
Bromodichloromethane	0.323	0.327	0.200	-1.2	25.0
1,2-Dichloropropane	0.403	0.415		-2.9	
cis-1,3-Dichloropropene	0.336	0.338	0.200	-0.6	25.0
Trichloroethene	0.358	0.370	0.300	-3.3	25.0
Dibromochloromethane	0.264	0.260	0.100	1.3	25.0
1,1,2-Trichloroethane	0.254	0.259	0.100	-1.7	25.0
Benzene	1.110	1.148	0.500	-3.4	25.0
trans-1,3-Dichloropropene	1.229	1.256	0.100	-2.3	25.0
Bromoform	0.317	0.329	0.100	-3.8	25.0
4-Methyl-2-Pentanone	0.502	0.542		-8.0	
2-Hexanone	0.349	0.381		-9.3	
Tetrachloroethene	0.452	0.469	0.200	-3.8	25.0
1,1,2,2-Tetrachloroethane	0.510	0.525	0.500	-2.9	25.0
Toluene	1.517	1.491	0.400	1.7	25.0
Chlorobenzene	0.985	0.995	0.500	-1.0	25.0
Ethylbenzene	0.481	0.499	0.100	-3.7	25.0
Styrene	0.961	0.958	0.300	0.3	25.0
Xylene (total)	0.528	0.549	0.300	-4.1	25.0
Toluene-d8	1.458	1.296		11.1	
Bromofluorobenzene	0.674	0.531	0.200	21.2	25.0
1,2-Dichloroethane-d4	2.768	2.409		13.0	

All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSB　　　Quant Rev: 6　　　Quant Time: 930202 10:01
Output File: ^B2194::QT　　　Injected at: 930202 09:33
Data File: >B2194::B3　　　Dilution Factor: 1.00000
Name: ;;;VSTD050
Misc: CCK　　　HP5995 B ;;;LLW;DF1　　　;B1888

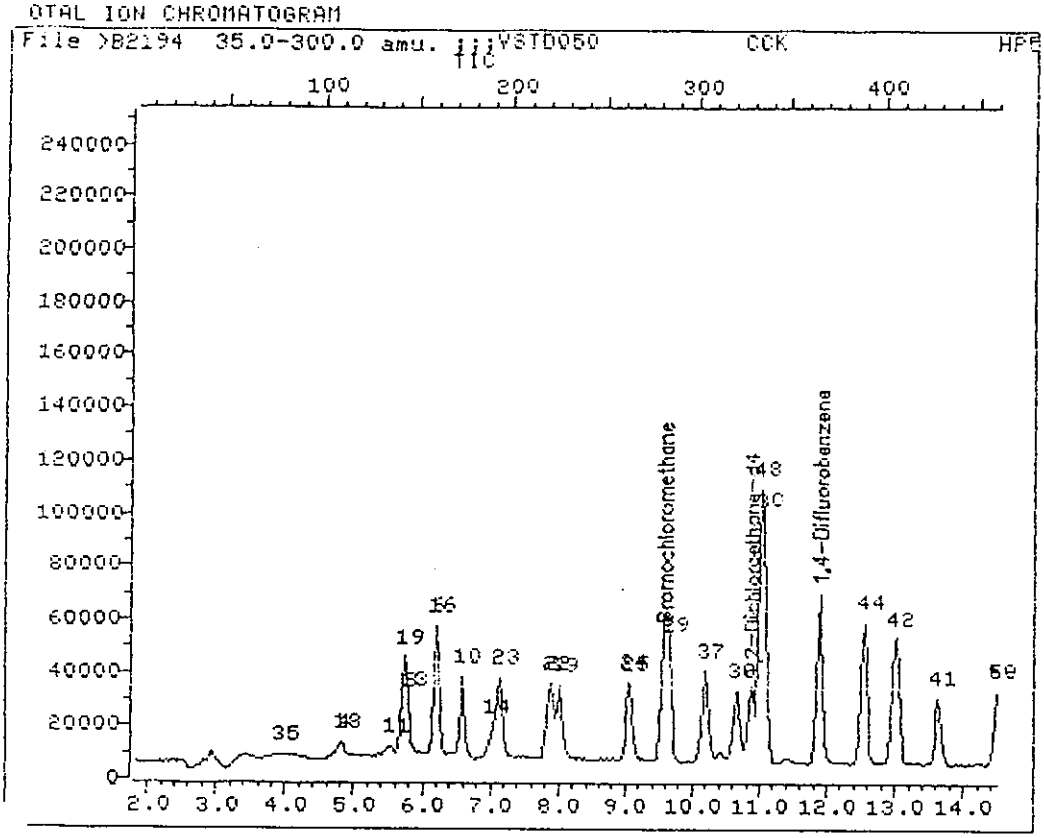
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

MH 2/2/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.57	127.8	29344	50.00	ug/L	89
2)	Dichlorodifluoromethane	7.89	85.0	8[illegible]84	90.29	ug/L	74
3)	Chloromethane	3.85	49.8	34419	75.58	ug/L	100
4)	Bromomethane	4.82	93.7	26459M	55.16	ug/L	100
5)	Vinyl Chloride	4.07	61.8	35203	50.00	ug/L	100
6)	Chloroethane	6.20	63.8	209[illegible]4M	58.04	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.79	101.0	20865	67.23	ug/L	88
10)	Methylene Chloride	6.59	83.8	32172	45.39	ug/L	92
11)	Acrolein	5.54	55.8	12357	90.42	ug/L	98
13)	Acetone	5.79	42.8	20378	26.50	ug/L	95
)	Acrylonitrile	7.03	52.8	33620	85.79	ug/L	93
)	Carbon Disulfide	6.20	75.8	165400	51.39	ug/L	99
18)	Trichlorofluoromethane	4.82	100.8	16217	47.36	ug/L	98
19)	1,1-Dichloroethene	5.73	95.8	29856	54.77	ug/L	95
22)	1,1-Dichloroethane	7.89	62.8	94529	46.64	ug/L	94
23)	1,2-Dichloroethene (total)t	7.14	95.8	30331	50.14	ug/L	93
24)	1,2-Dichloroethene (total)c	9.05	95.8	32750	48.07	ug/L	90
25)	2-Butanone	9.07	43.0	32002	33.61	ug/L	96
27)	1,1-Dichloropropene	14.85	74.8	81833	48.02	ug/L	85
29)	Chloroform	9.65	82.8	87309	49.98	ug/L	96
30)	1,2-Dichloroethane	11.06	61.8	112319	47.35	ug/L	99
31)	1,2-Dichloroethane-d4	10.87	64.8	70679	45.04	ug/L	87
35)	*1,4-Difluorobenzene	11.89	113.8	157412	50.00	ug/L	98
37)	1,1,1-Trichloroethane	10.21	96.8	81835	51.84	ug/L	97
38)	Carbon Tetrachloride	10.65	116.8	61576	49.81	ug/L	92
39)	Vinyl Acetate	8.02	42.8	153209	50.04	ug/L	93
41)	Bromodichloromethane	13.63	82.8	51515	50.18	ug/L	95
42)	1,2-Dichloropropane	13.00	62.8	65375	52.89	ug/L	93
43)	cis-1,3-Dichloropropene	14.85	74.8	81833	48.33	ug/L	96
44)	Trichloroethene	12.55	129.8	58276	48.27	ug/L	94
46)	Dibromochloromethane	17.72	128.7	41004	48.55	ug/L	97
47)	1,1,2-Trichloroethane	16.67	96.8	40710	51.24	ug/L	86
48)	Benzene	11.04	77.8	180685	51.09	ug/L	89
49)	trans-1,3-Dichloropropene	16.23	74.8	83071	54.05	ug/L	95
50)	2-Chloroethylvinylether	14.49	62.8	39946	52.29	ug/L	92
51)	1,2-Dibromoethane	18.08	106.9	54283	49.53	ug/L	96
)	Bromoform	21.04	172.6	51775	45.72	ug/L	98
)	*Chlorobenzene-d5	19.22	116.8	127158	50.00	ug/L	93
56)	4-Methyl-2-Pentanone	15.10	42.8	68917	45.07	ug/L	92
57)	2-Hexanone	17.28	42.8	48484	39.94	ug/L	93
58)	Tetrachloroethene	17.22	163.7	59683	53.03	ug/L	92
60)	1,1,2,2-Tetrachloroethane	21.90	82.8	66[illegible]16	47.66	ug/L	88
62)	Toluene	[illegible]	[illegible]	[illegible]			

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Toluene-d8	19.51	97.8	164776	50.32	ug/L	94
64)	Chlorobenzene	19.28	111.8	126545	52.68	ug/L	95
65)	Ethylbenzene	19.55	105.8	63441	53.18	ug/L	94
66)	Styrene	20.69	103.8	121823	55.70	ug/L	95
67)	Xylene (total)mp	19.80	105.8	148647	104.49	ug/L	94
68)	Xylene (total)o	20.63	105.8	69848	51.36	ug/L	89
69)	Methyl Cellosolve	14.49	57.0	7993	206.03	ug/L	98
73)	1,2,3-Trichloropropane	14.85	74.8	81833	51.37	ug/L	78
76)	4-Chlorotoluene	17.72	90.8	4331	51.66	ug/L	63
81)	1,4-Dichloro-2-Butene	20.69	74.8	8070	8070.00	NO CALIB	59
82)	1,3-Dichlorobenzene	23.75	145.8	113187	46.73	ug/L	96
83)	1,4-Dichlorobenzene	23.75	145.8	113187	113187.0	NO CALIB	96
84)	1,2-Dichlorobenzene	24.33	145.8	47155	47.18	ug/L	94
86)	Butylbenzene	15.68	90.8	189584	50.32	ug/L	37
93)	Bromofluorobenzene	21.68	173.9	67929	41.88	ug/L	73

* Compound is ISTD

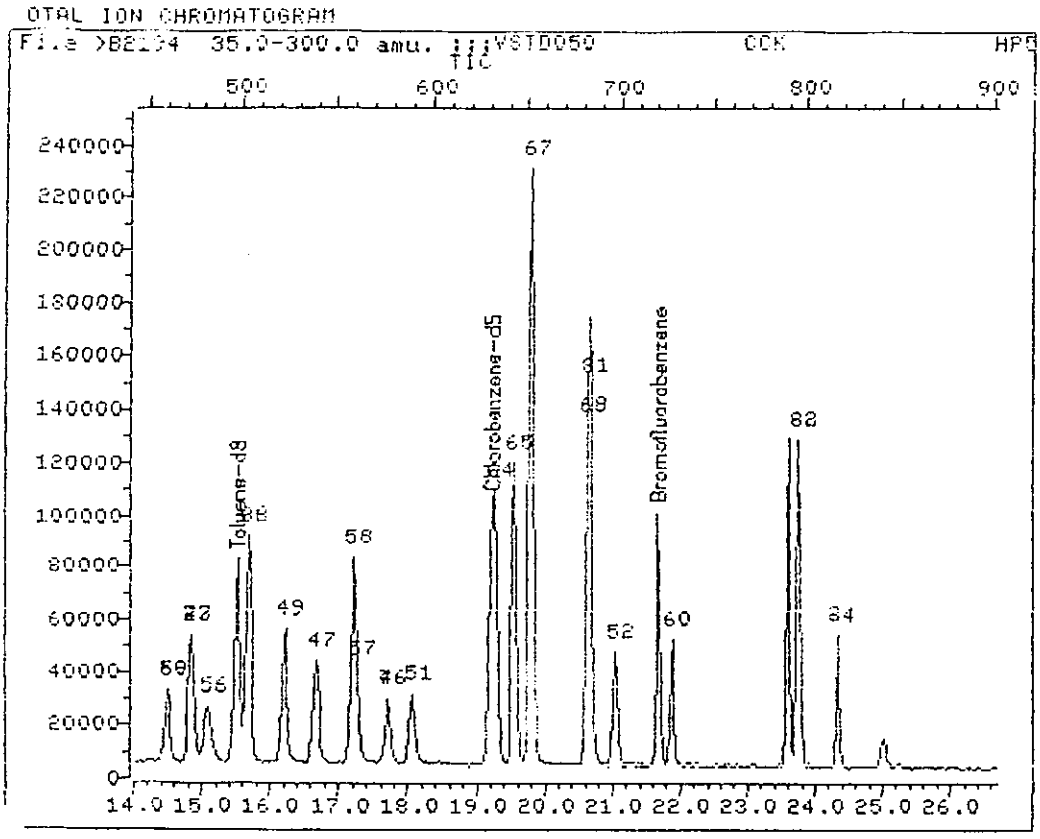


Data File: >B2194::B3 Quant Output File: ^B2194::QT
Name: ;;;VSTD050
Misc: CCK HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930202 10:01
Injected at: 930202 09:33

TIC page 1 of 2



Data File: >B2194::B3 Quant Output File: ^B2194::QT
Name: ;;;VSTD050
Misc: CCK HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

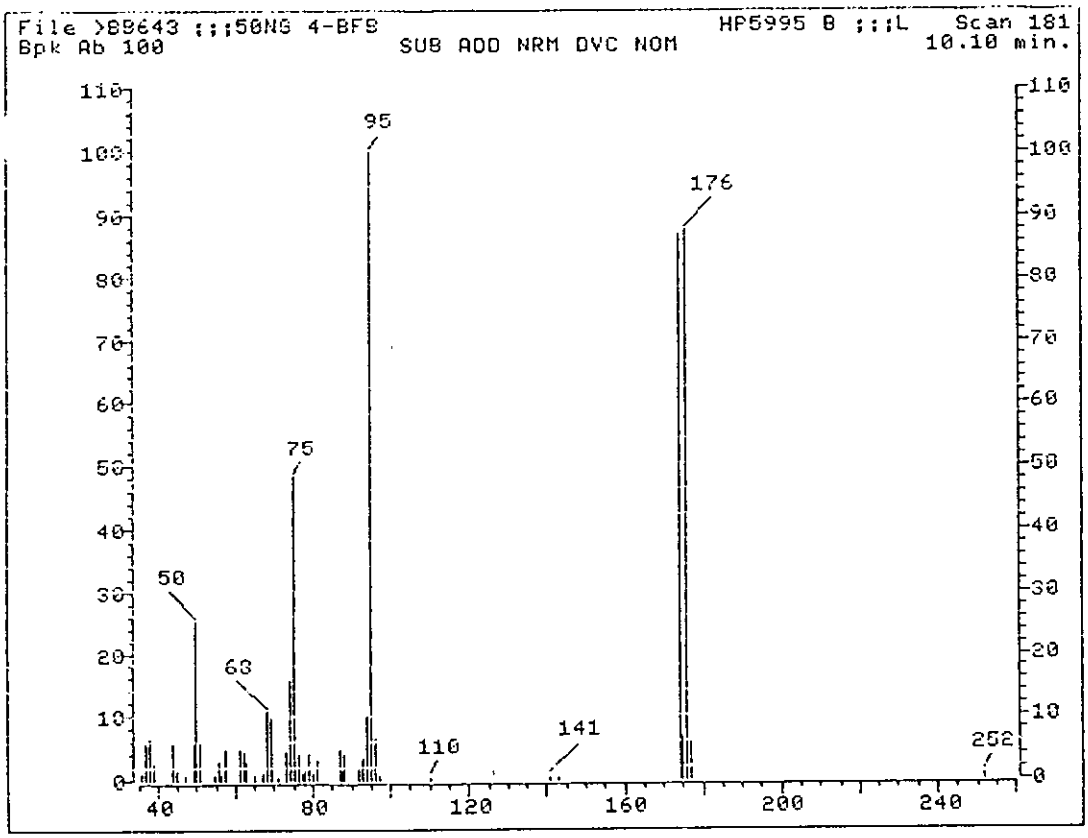
Operator ID: MSB
Quant Time: 930202 10:01
Injected at: 930202 09:33

TIC page 2 of 2

```
MS data file header from : >BB643

Sample: ;;;50NG 4-BFB          Operator: MSB          MS              2/01/93  8:43
Misc  :                    HP5995 B ;;;LLW;DF1     ;B1886
Sys. #:    2  MS model:  96  SW/HW rev.: IA  ALS # :  0
  Method file: M_BBCP    Tuning file: T_B       No. of extra records:  2
 Source temp.:  220   Analyzer temp.:  240      Transfer line temp. : 185

      Chromatographic temperatures :  50.   180.    0.    0.    0.
      Chromatographic times, min.  :  1.0    0.0   0.0   0.0   0.0
      Chromatographic rate, deg/min: 12.0    0.0   0.0   0.0   0.0
```



MS data file header from : >BB643

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/01/93 8:43
Misc : HP5995 B ;;;LLW;DF1 ;B1886
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0

>BB643 ;;;50NG 4-BFB HP5995 B ;;;LLW;DF1 ;

B1
181 SUB ADD NRM DVC NOM

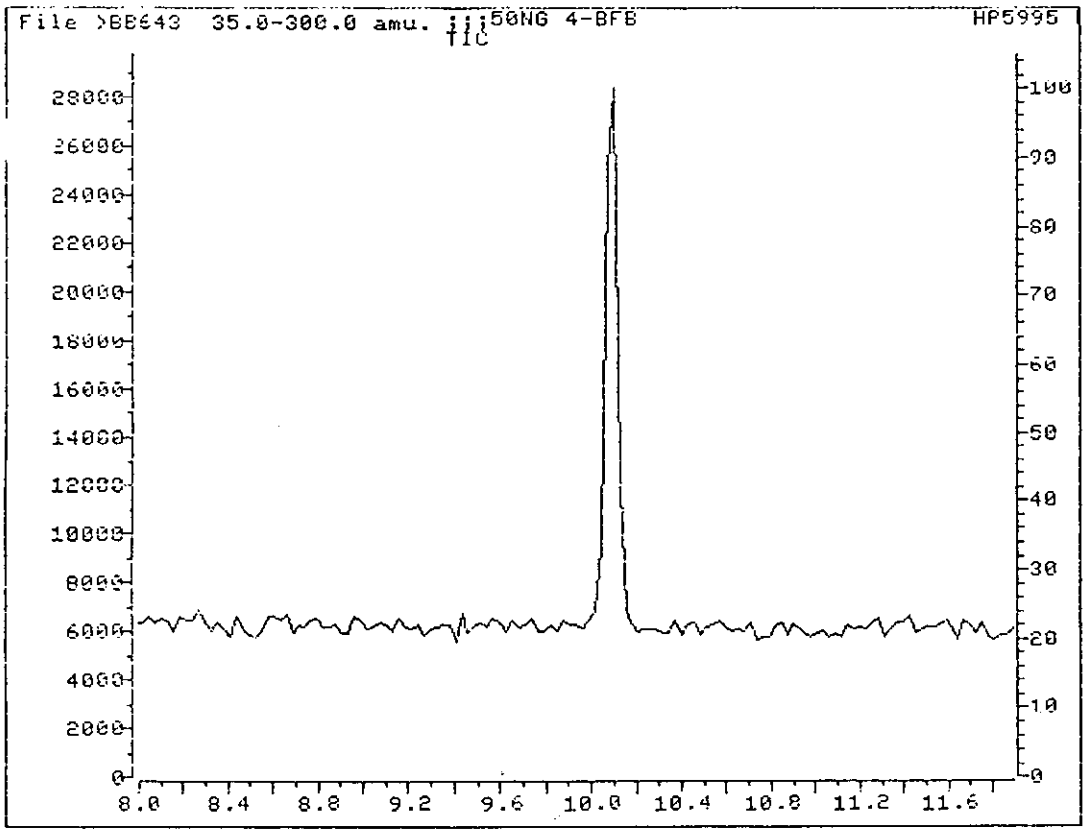
File: >BB643 Scan #: 181 Retn. time: 10.10

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	1.118	54.90	.857	68.05	10.744	79.85	.888	97.10	.627
37.05	5.769	55.90	2.582	69.05	9.908	81.05	2.906	109.95	.449
38.05	6.449	56.10	.867	70.95	.418	86.90	4.787	140.90	.533
39.05	2.278	57.10	4.578	73.05	4.379	87.50	1.411	143.20	.523
44.05	5.989	61.00	4.902	74.05	15.719	88.00	4.170	174.00	86.842
45.05	1.286	62.00	4.442	75.05	48.213	92.00	2.205	175.00	6.302
47.15	.617	63.00	2.864	76.15	4.149	93.00	3.271	175.90	87.531
49.00	5.717	65.00	.564	77.05	.962	94.00	10.065	176.90	5.602
50.00	25.209	66.80	1.160	77.95	1.505	95.10	100.000	251.80	.742
51.10	5.654	67.20	.617	78.95	4.139	96.00	6.564	280.90	1.934

MS data file header from : >BB643

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/01/93 8:43
Misc : HP5995 B ;;;LLW;DF1 ;B1886
Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

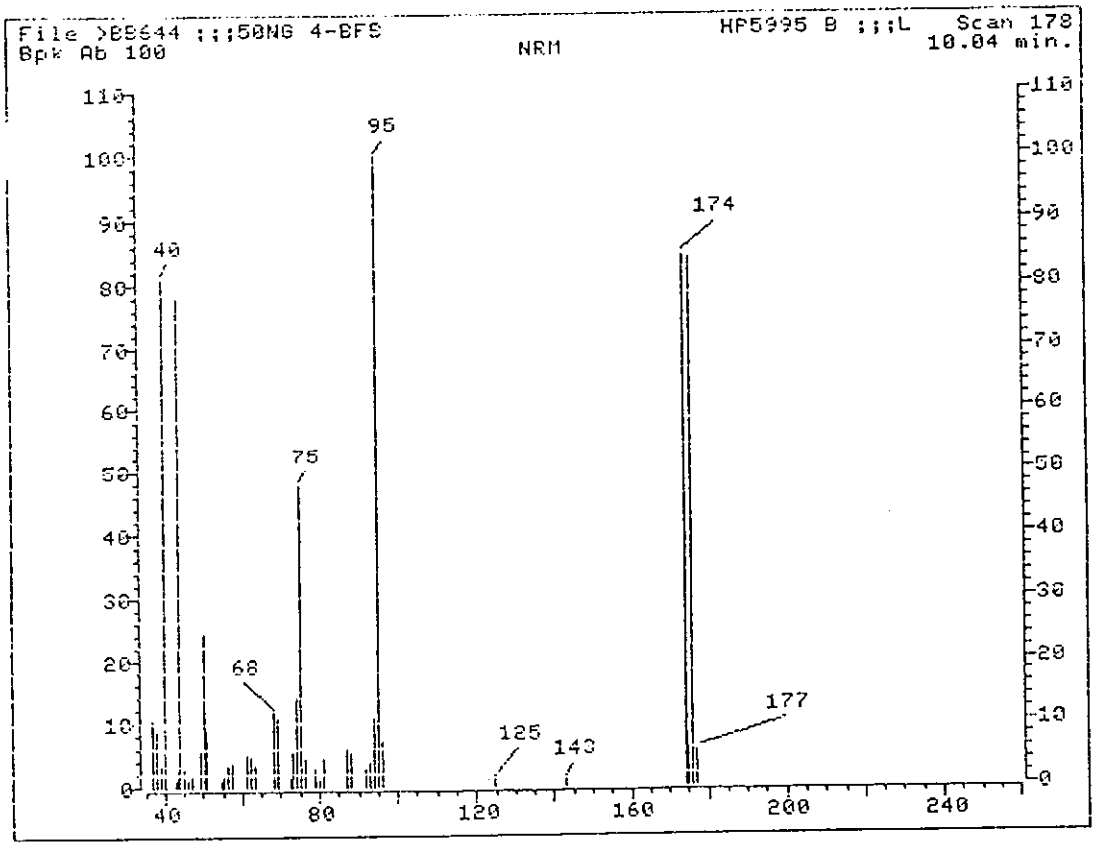
Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0



MS data file header from : >BB644

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/01/93 13:55
Misc : HP5995 B ;;;LLW;DF1 ;B1887
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0



MS data file header from : >BB644

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/01/93 13:55
Misc : HP5995 B ;;;LLW;DF1 ;B1887
Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0

>BB644 ;;;50NG 4-BFB HP5995 B ;;;LLW;DF1 ;

81
178 NRM

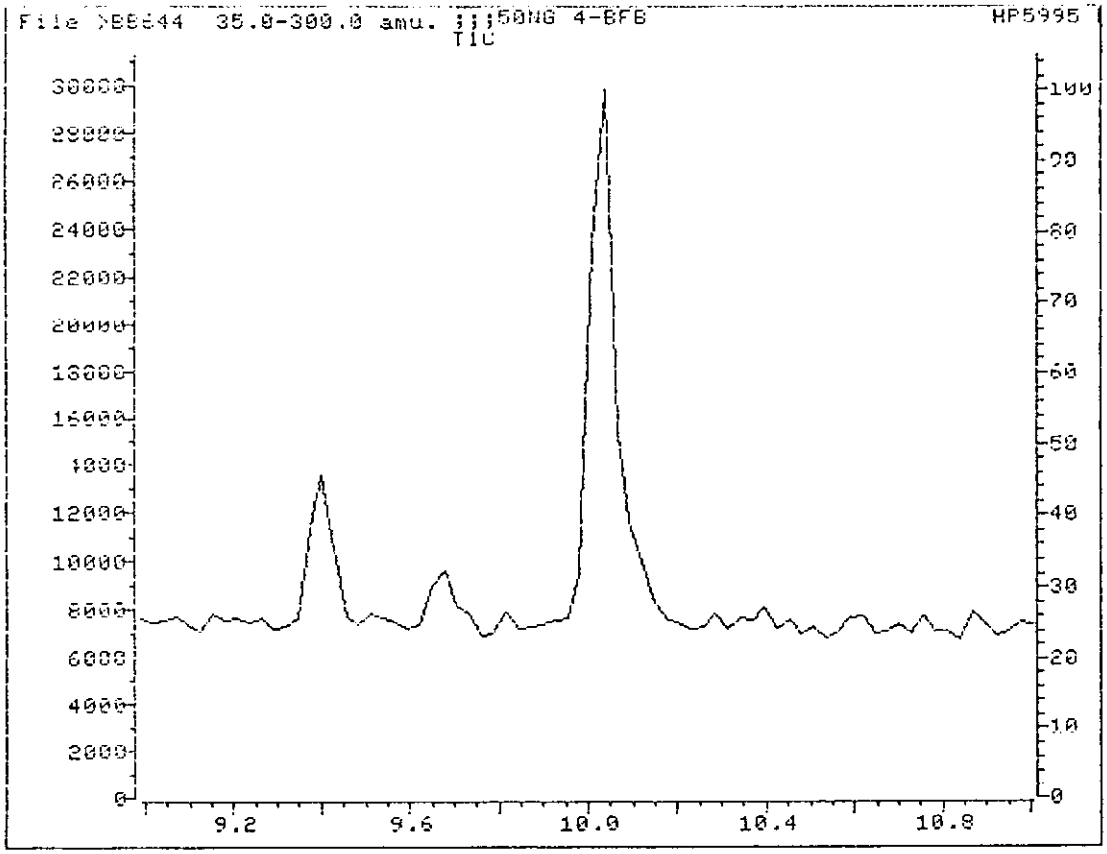
File: >BB644 Scan #: 178 Retn. time: 10.04

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	10.404	47.15	1.954	62.00	4.725	79.05	2.703	96.00	6.951
38.15	8.814	49.10	5.634	63.10	3.339	80.05	1.113	124.90	.931
39.05	3.544	50.10	24.262	68.05	11.699	80.95	4.407	143.00	.931
40.05	80.963	51.00	9.041	69.05	10.677	87.10	6.065	174.00	84.439
42.65	1.204	54.40	1.159	72.35	1.272	88.00	5.361	174.90	6.156
43.15	2.317	55.10	1.567	73.05	5.270	91.90	2.703	176.00	83.894
44.05	77.806	56.10	3.317	74.15	14.198	93.00	3.567	177.00	5.361
45.15	2.590	57.10	3.567	75.05	47.728	94.00	10.791	281.10	2.522
46.15	1.000	61.10	5.157	76.05	4.430	95.10	100.000	281.90	1.022

. . data file header from : >BB644

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/01/93 13:55
Misc : HP5995 B ;;;LLW;DF1 ;B1887
Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

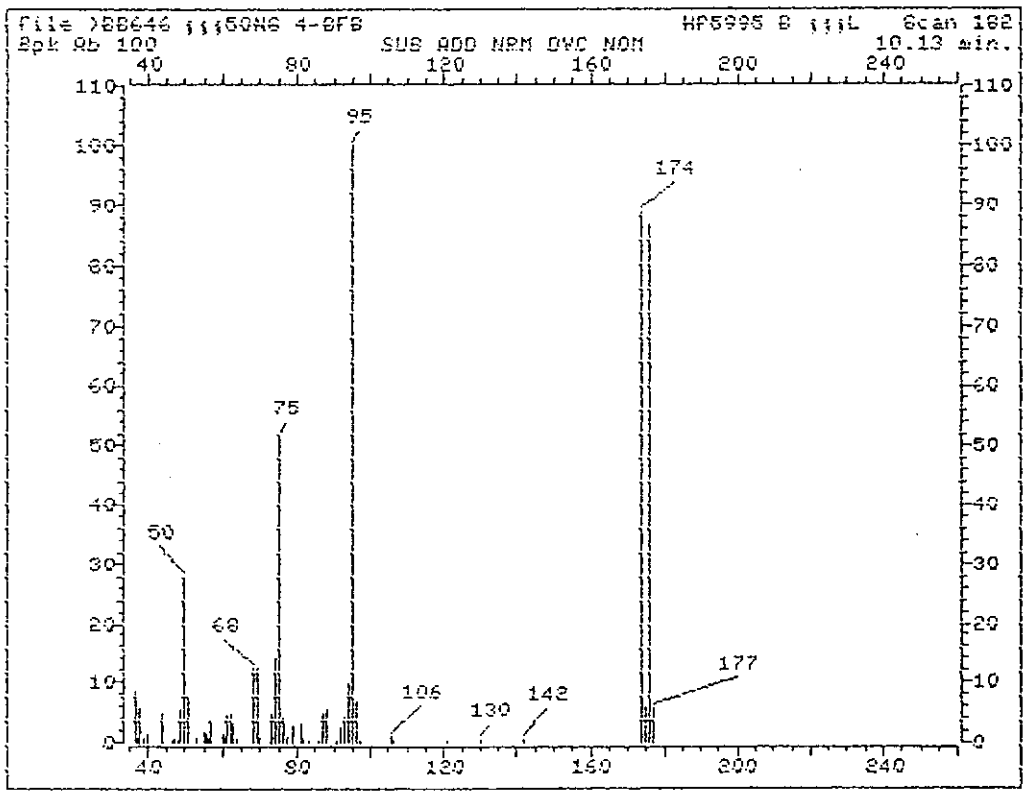
Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0



MS data file header from : >88646

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/02/93 9:02
Misc : HP5995 B ;;;LLW;DF1 ;81888
Sys. #: 2 MS model: 95 SW/HW rev.: IA ALS # : 0
Method file: M_88CP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0



MS data file header from : >88646

Sample: ;;;50NG 4-8F8 Operator: MSB MS 2/02/93 9:02
Misc : HP5995 B ;;;LLW;DF1 ;81888
Sys. #: 2 MS model: 95 SW/HW rev.: IA ALS # : 0
Method file: M_88CP Tuning file: T_8 No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0

>88646 ;;;50NG 4-8F8 HP5995 B ;;;LLW;DF1 ;

81
182 SUB ADD NRM DVC NOM

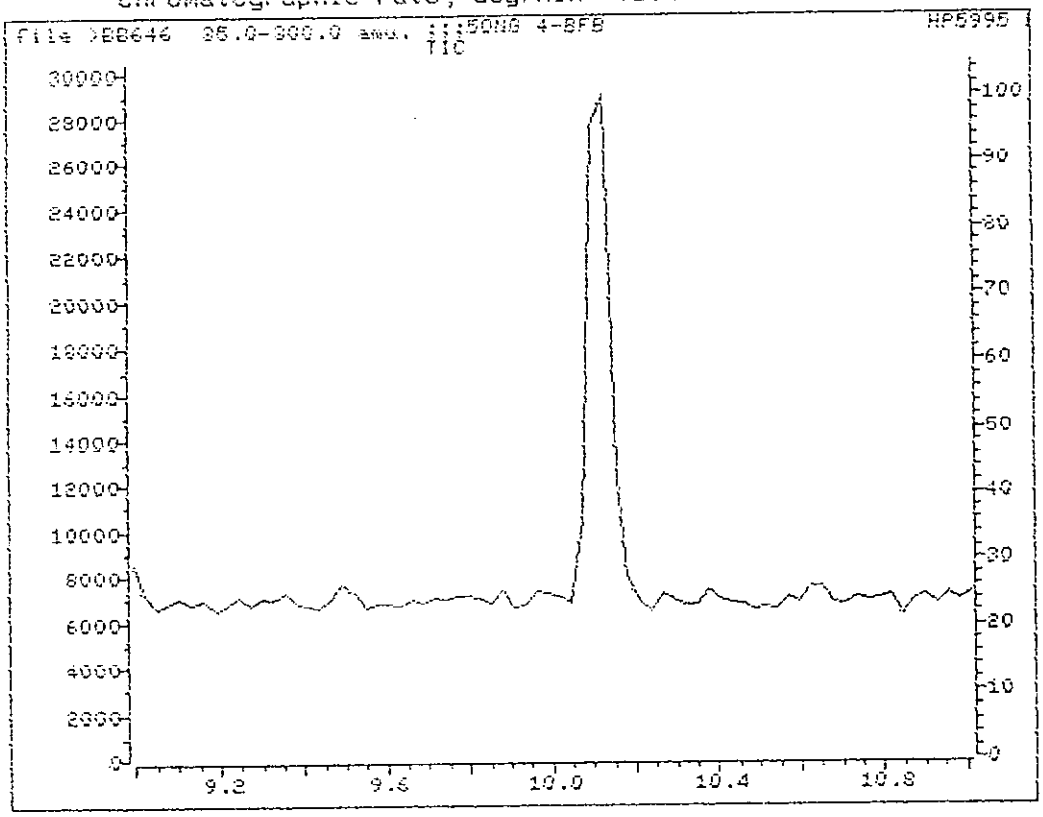
File: >88646 Scan #: 182 Retn. time: 10.13

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	8.580	51.05	7.864	63.90	.643	81.85	.602	97.05	.425
37.65	.591	52.95	.591	68.00	12.294	83.15	.456	105.80	.965
38.05	5.706	55.05	1.826	69.00	12.294	85.65	.539	106.20	.456
39.05	.871	55.90	1.328	70.00	.664	86.95	4.855	121.05	.415
39.95	1.318	56.40	.705	72.90	4.659	87.85	5.343	130.35	.373
43.95	4.575	57.00	3.621	74.00	14.265	90.85	.498	142.15	.498
46.65	.415	60.00	1.328	75.00	51.292	92.05	2.345	173.85	88.827
47.15	.871	60.60	.554	76.00	4.191	92.95	3.984	174.95	5.789
48.45	.498	60.90	4.451	77.20	.550	93.95	9.835	175.85	86.565
48.95	5.281	62.00	4.617	78.85	2.863	94.95	100.000	176.95	5.706
49.95	27.875	63.00	3.185	80.95	3.206	95.95	6.660	290.90	2.915

MS data file header from : >BB646

Sample: ;;;50NG 4-BFB Operator: MSB MS 2/02/93 9:02
Misc : HP5995 B ;;;LLW;OF1 ;B1BBS
Sys. #: 2 MS model: 95 SW/HW rev.: IA ALS # : 0
Method file: M_BBCP Tuning file: T_B No. of extra records: 2
Source temp.: 220 Analyzer temp.: 240 Transfer line temp. : 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBJ

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2180.D

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

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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.

VBLKBJ 11

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2180.D

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

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: MSB Quant Rev: 6 Quant Time: 930201 15:53
Output File: ^B2180::QT Injected at: 930201 15:25
Data File: >B2180::B2 Dilution Factor: 1.00000
Name: ;;;VBLKBJ
Misc: HP5995 B ;;;LLW;DF1 ;B1887

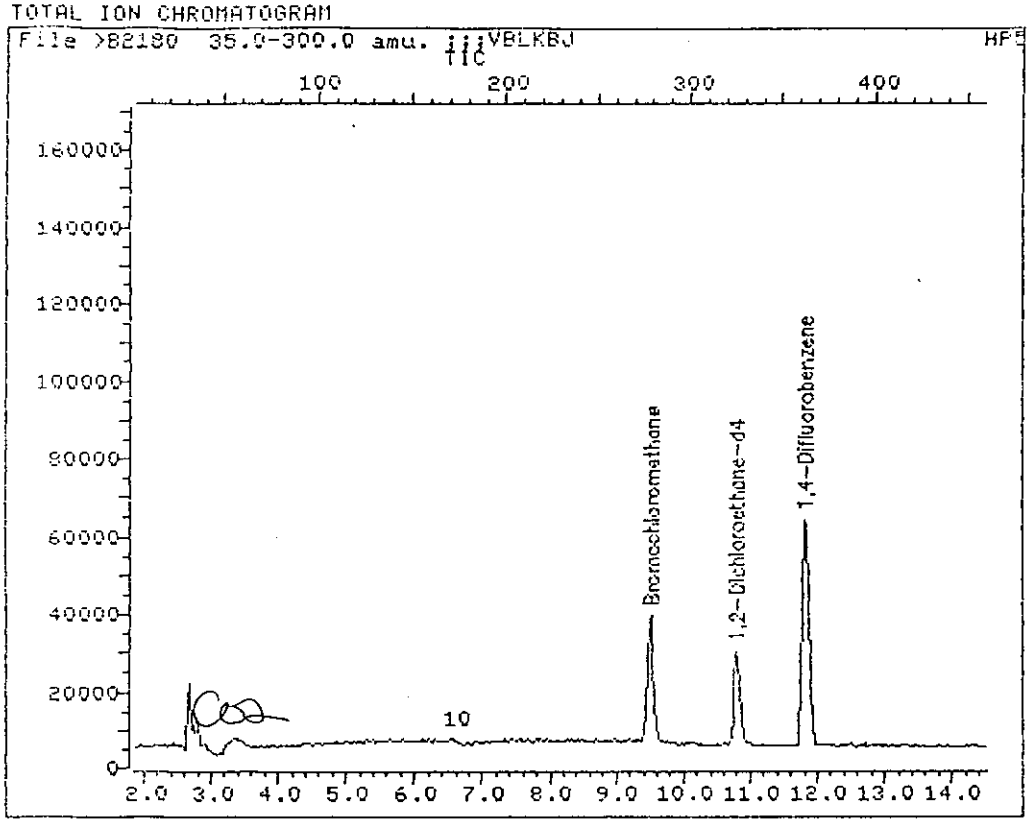
ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.52	127.8	25013	50.00	ug/L	85
10)	Methylene Chloride	6.54	83.8	1158	1.92	ug/L	74
31)	1,2-Dichloroethane-d4	10.80	64.8	58687	43.88	ug/L	92
35)	*1,4-Difluorobenzene	11.82	113.8	152147	50.00	ug/L	94
55)	*Chlorobenzene-d5	19.21	116.8	124346	50.00	ug/L	94
63)	Toluene-d8	15.46	97.8	153220	47.85	ug/L	97
~~64)~~	~~Chlorobenzene~~	~~19.26~~	~~111.8~~	~~2179~~	~~.93~~	~~ug/L~~	~~79~~
82)	1,3-Dichlorobenzene	23.76	145.8	1508	.64	ug/L	91
83)	1,4-Dichlorobenzene	23.76	145.8	1508	1508.00	NO CALIB	91
93)	Bromofluorobenzene	21.69	173.9	70947	44.99	ug/L	56

Compound is ISTD

PAS 02/10/93

TOTAL ION CHROMATOGRAM



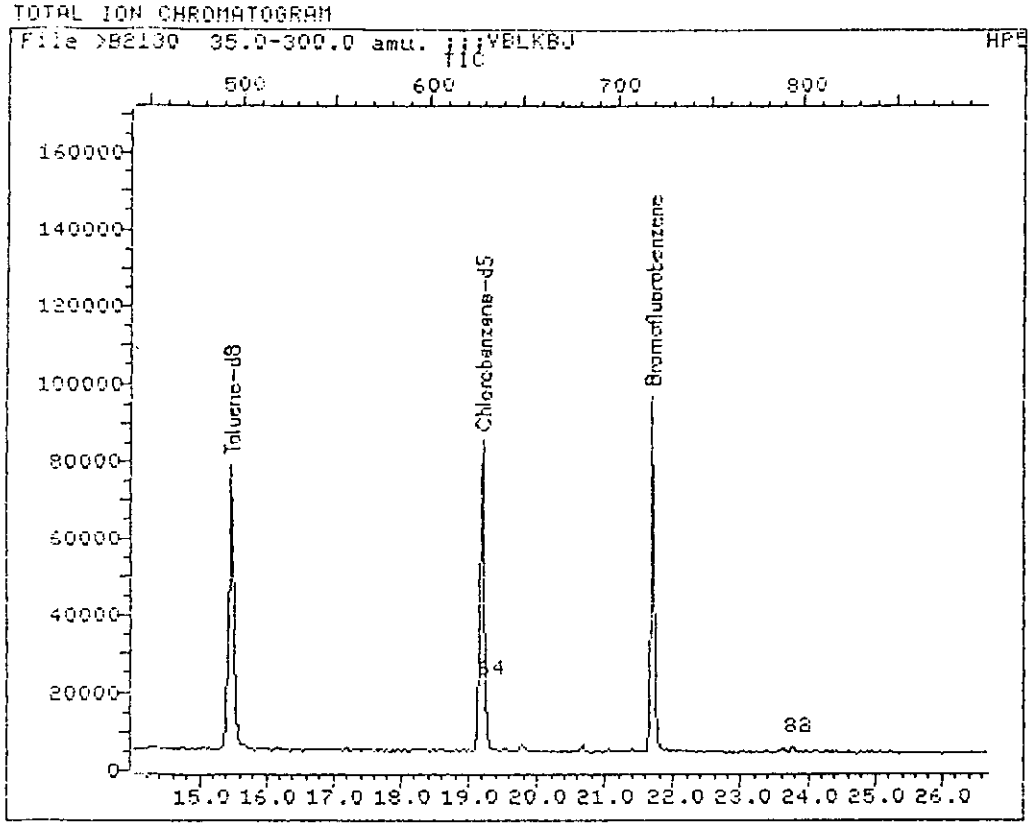
Data File: >B2180::B2 Quant Output File: ^B2180::QT
Name: ;;;VBLKBJ
Misc: HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930201 15:53
Injected at: 930201 15:25

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



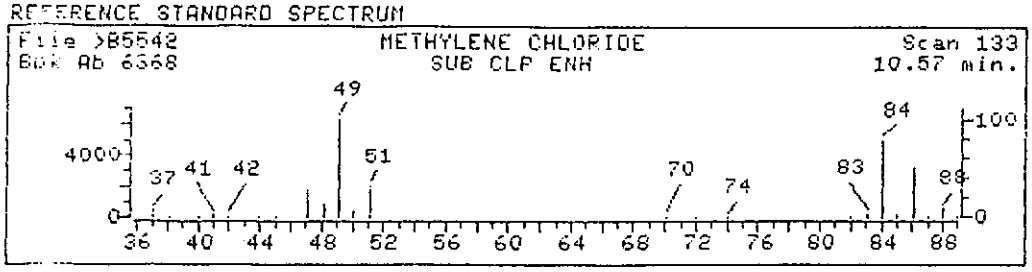
Data File: >B2180::B2 Quant Output File: ^B2180::QT
Name: ;;;VBLKBJ
Misc: HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

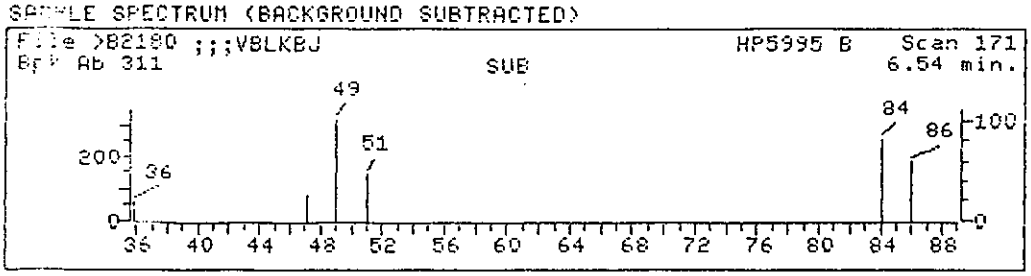
Operator ID: MSB
Quant Time: 930201 15:53
Injected at: 930201 15:25

TIC page 2 of 2

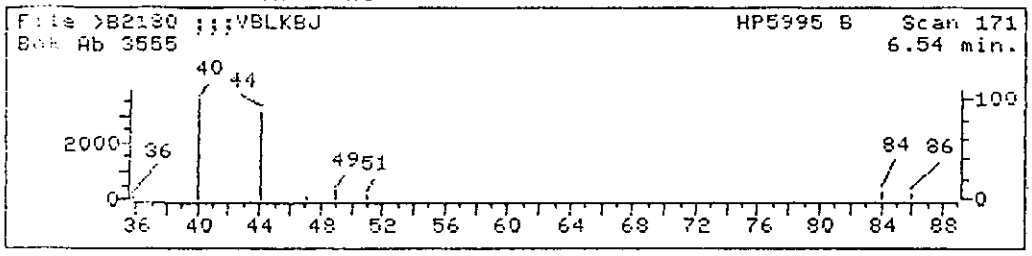
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2180::B2 Quant Output File: ^B2180::QT
Name: ;;;VBLKBJ
Misc: HP5995 B ;;;LLW;DF1 ;B1887
Quant Time: 930201 15:53 Quant ID File: I_IFBW::N1
Injected at: 930201 15:25 Last Calibration: 930201 15:05

Compound No: 10
Compound Name: Methylene Chloride
Scan Number: 171
Retention Time: 6.54 min.
Quant Ion: 83.8
Area: 1158
Concentration: 1.92 ug/L
q-value: 74

✓

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBK

116

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2195.D

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

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	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
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	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	1	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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKBK 317

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2195.D

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

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

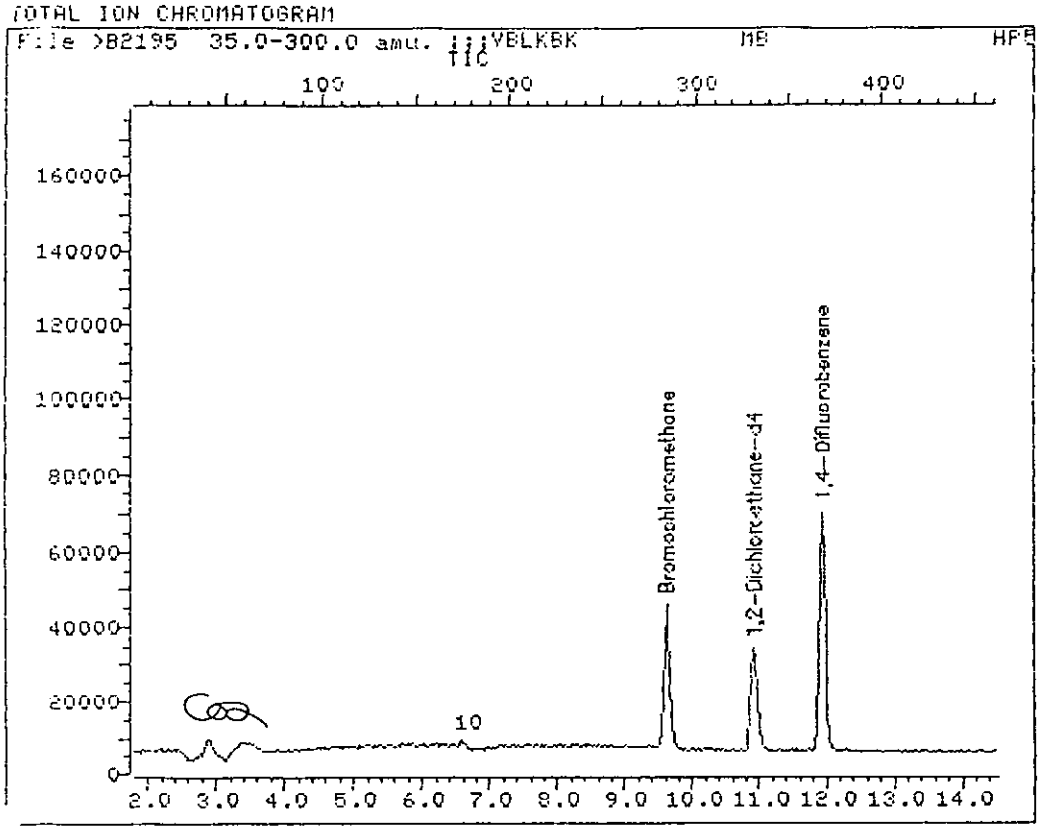
Operator ID: MSB Quant Rev: 6 Quant Time: 930202 10:56
Output File: ^B2195::QT Injected at: 930202 10:28
Data File: >B2195::B2 Dilution Factor: 1.00000
Name: ;;;VBLKBK
Misc: MB HP5995 B ;;;LLW;DF1 ;B1888

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.63	127.8	32213	50.00	ug/L	93
10)	Methylene Chloride	6.62	83.8	1194	1.69	ug/L	86
31)	1,2-Dichloroethane-d4	10.93	64.8	64871	41.80	ug/L	88
35)	*1,4-Difluorobenzene	11.95	113.8	154246	50.00	ug/L	92
55)	*Chlorobenzene-d5	19.19	116.8	122760	50.00	ug/L	92
62)	Toluene	15.70	91.0	4016	1.10	ug/L	96
63)	Toluene-d8	15.54	97.8	164888	51.83	ug/L	94
93)	Bromofluorobenzene	21.68	173.9	73245	56.18	ug/L	65

* Compound is ISTD

2/2/93



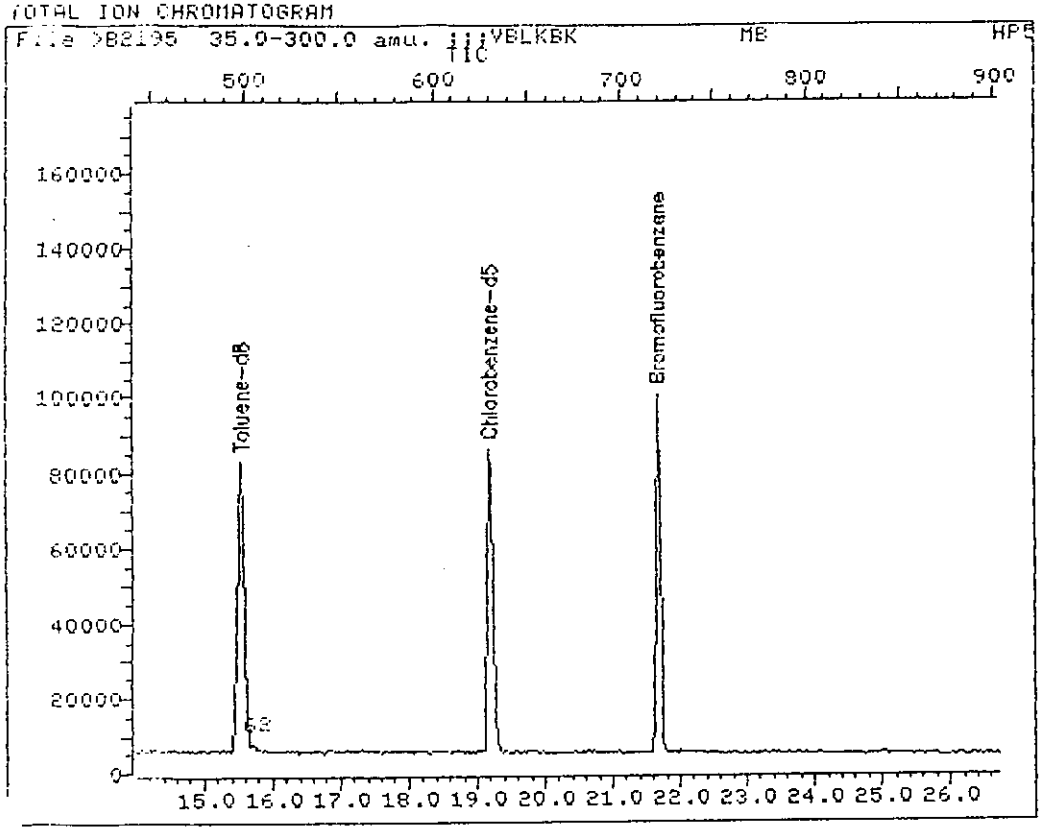
Data File: >B2195::B2 Quant Output File: ^B2195::QT
Name: ;;;VBLKBK
Misc: MB HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 10:56
Injected at: 930202 10:28

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



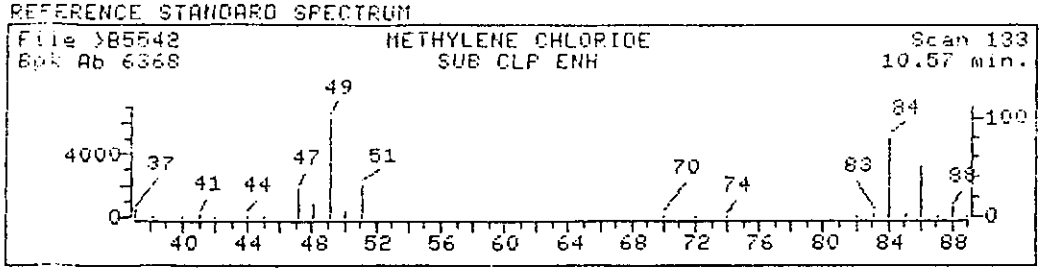
Data File: >B2195::B2 Quant Output File: ^B2195::QT
Name: ;;;VBLKBK
Misc: MB HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

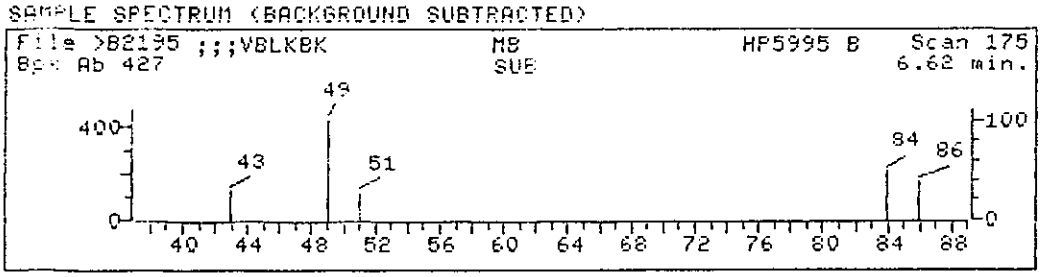
Operator ID: MSB
Quant Time: 930202 10:56
Injected at: 930202 10:28

TIC page 2 of 2

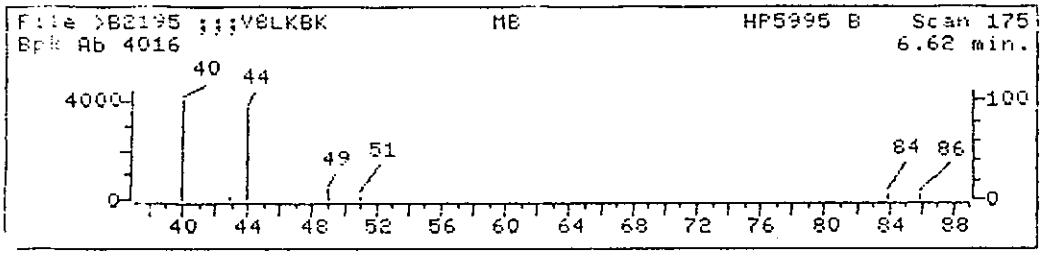
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



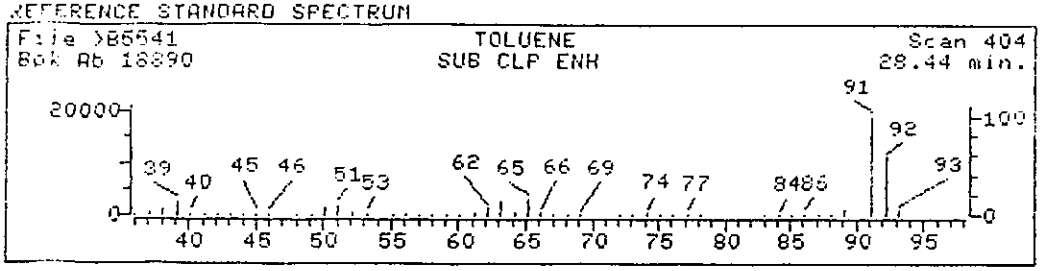
SAMPLE SPECTRUM (UNALTERED)



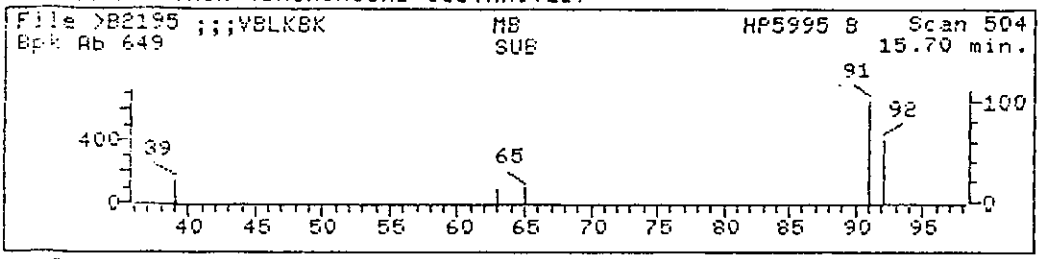
Data File: >B2195::B2 Quant Output File: ^B2195::QT
Name: ;;;VBLKBK
Misc: MB HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 10:56 Quant ID File: I_IFBW::N1
Injected at: 930202 10:28 Last Calibration: 930202 10:13

Compound No: 10
Compound Name: Methylene Chloride
Scan Number: 175
Retention Time: 6.62 min.
Quant Ion: 83.8
Area: 1194
Concentration: 1.69 ug/L
q-value: 86

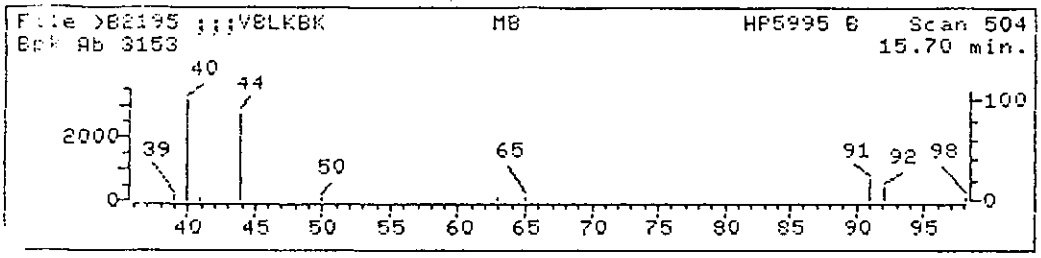
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2195::B2 Quant Output File: ^B2195::QT
Name: ;;;VBLKBK
Misc: MB HP5995 B ;;;LLW;DF1 ;B1888
Quant Time: 930202 10:56 Quant ID File: I_IFBW::N1
Injected at: 930202 10:28 Last Calibration: 930202 10:13

Compound No: 62
Compound Name: Toluene
Scan Number: 504
Retention Time: 15.70 min.
Quant Ion: 91.0
Area: 4016
Concentration: 1.10 ug/L
q-value: 96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-1MS 123

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2198.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	0.5	J
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	61	
75-34-3	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	54	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	48	
10061-02-6	trans-1,3-Dichloropropene	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	52	B
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

JC 2-19-93

QUANT REPORT

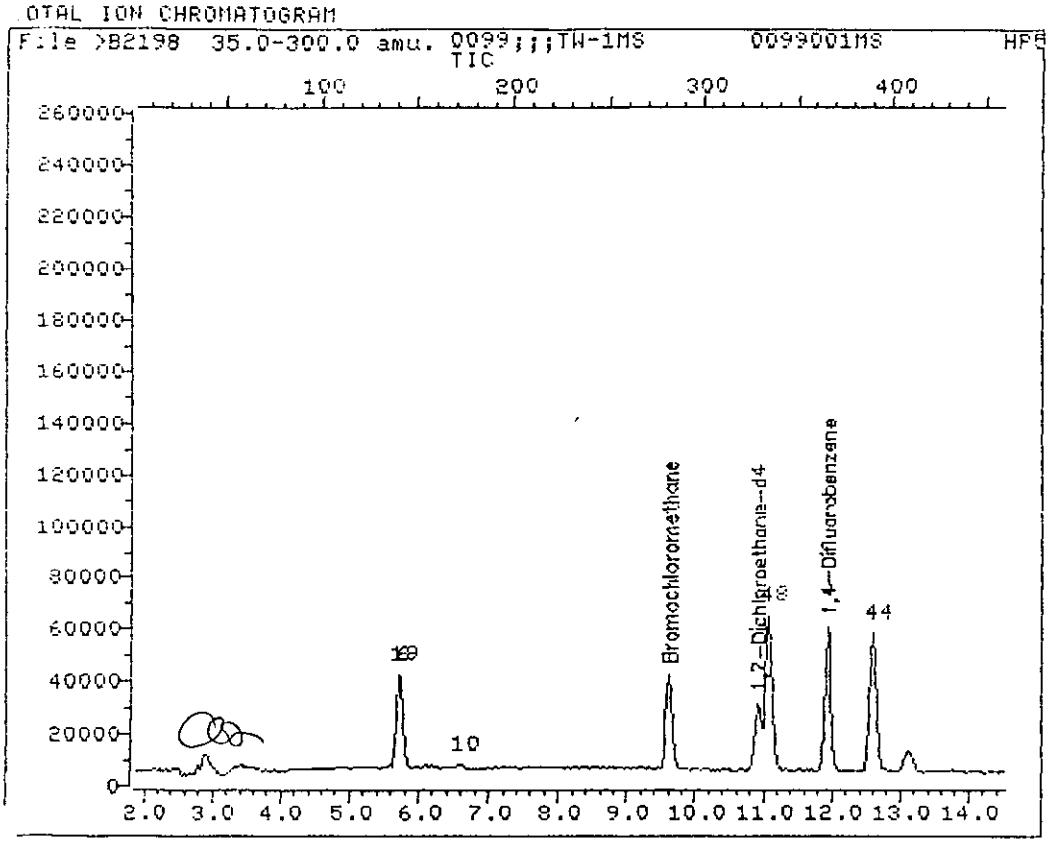
Operator ID: MSB Quant Rev: 6 Quant Time: 930202 13:06
Output File: ^B2198::QT Injected at: 930202 12:38
Data File: >B2198::B2 Dilution Factor: 1.00000
Name: 0099;;;TW-1MS
Misc: 0099001MS HP5995 B ;;;LLW;DF1 ;B1888

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.62	127.8	29809	50.00	ug/L	90
6)	Chloroethane	5.72	63.8	200	.47	ug/L	100
10)	Methylene Chloride	6.58	83.8	1613	2.47	ug/L	94
19)	1,1-Dichloroethene	5.72	96.8	37152	61.25	ug/L	95
31)	1,2-Dichloroethane-d4	10.92	64.8	59025	41.10	ug/L	84
35)	*1,4-Difluorobenzene	11.94	113.8	143150	50.00	ug/L	97
44)	Trichloroethene	12.60	129.8	57441	54.19	ug/L	94
48)	Benzene	11.08	77.8	158923	48.36	ug/L	95
55)	*Chlorobenzene-d5	19.24	116.8	111807	50.00	ug/L	93
62)	Toluene	15.75	91.0	175121	52.53	ug/L	93
74)	Toluene-d8	15.56	97.8	149149	51.47	ug/L	83
)	Chlorobenzene	19.33	111.8	106992	47.90	ug/L	96
77)	1,3,5-Trimethylbenzene	23.11	104.8	1327^	1327.00	NO CALIB	75
79)	1,2,4-Trimethylbenzene	23.11	104.8	1327^	1327.00	NO CALIB	68
86)	Butylbenzene	15.75	90.8	175121	52.53	ug/L	37
93)	Bromofluorobenzene	21.70	173.9	69977	58.93	ug/L	51

* Compound is ISTD

PAS 02/10/93

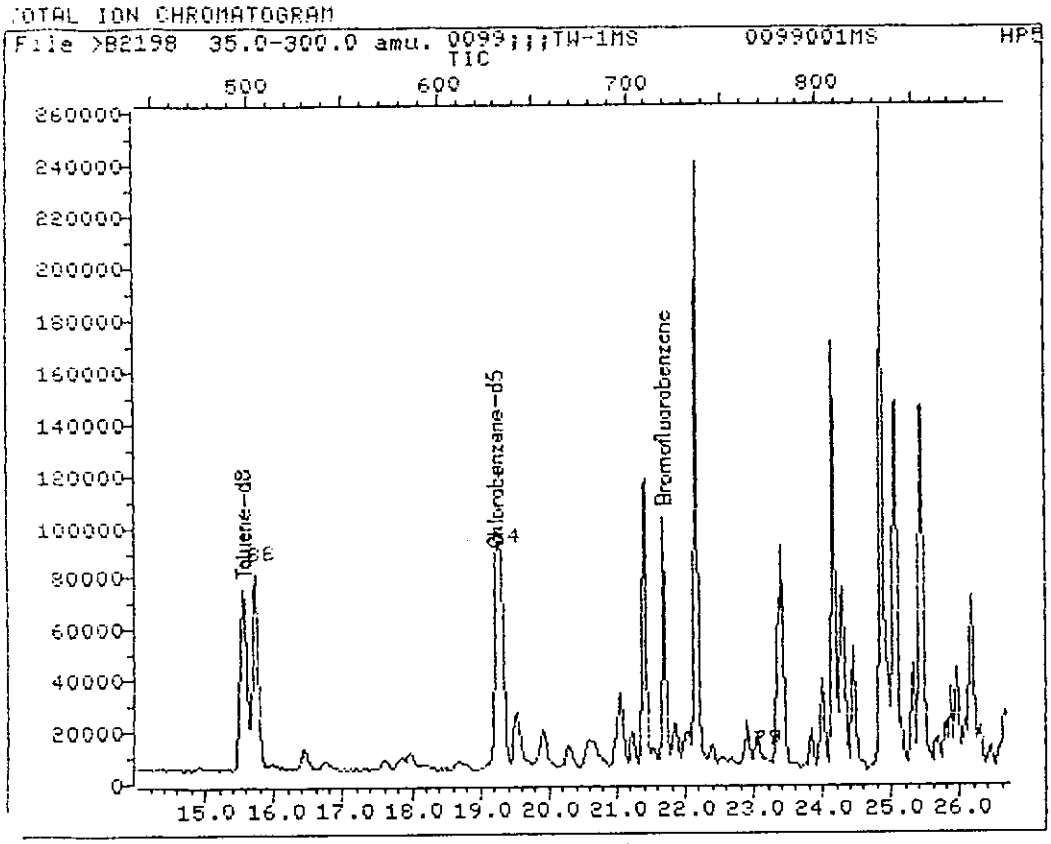


Data File: >B2198::B2 Quant Output File: ^B2198::QT
Name: 0099;;;TW-1MS
Misc: 0099001MS HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 13:06
Injected at: 930202 12:38

TIC page 1 of 2



Data File: >B2198::B2 Quant Output File: ^B2198::QT
Name: 0099;;;TW-1MS
Misc: 0099001MS HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 13:06
Injected at: 930202 12:38

TIC page 2 of 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-1MSD

127

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2199.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	71	
75-34-3	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	54	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	
10061-02-6	trans-1,3-Dichloropropene	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	53	B
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

JLC 2-19-93

QUANT REPORT

Operator ID: MSB
Output File: ^B2199::QT
Data File: >B2199::B2
Name: 0099;;;TW-1MSD
Misc: 0099001MSD HP5995 B ;;;LLW;DF1 ;B1888

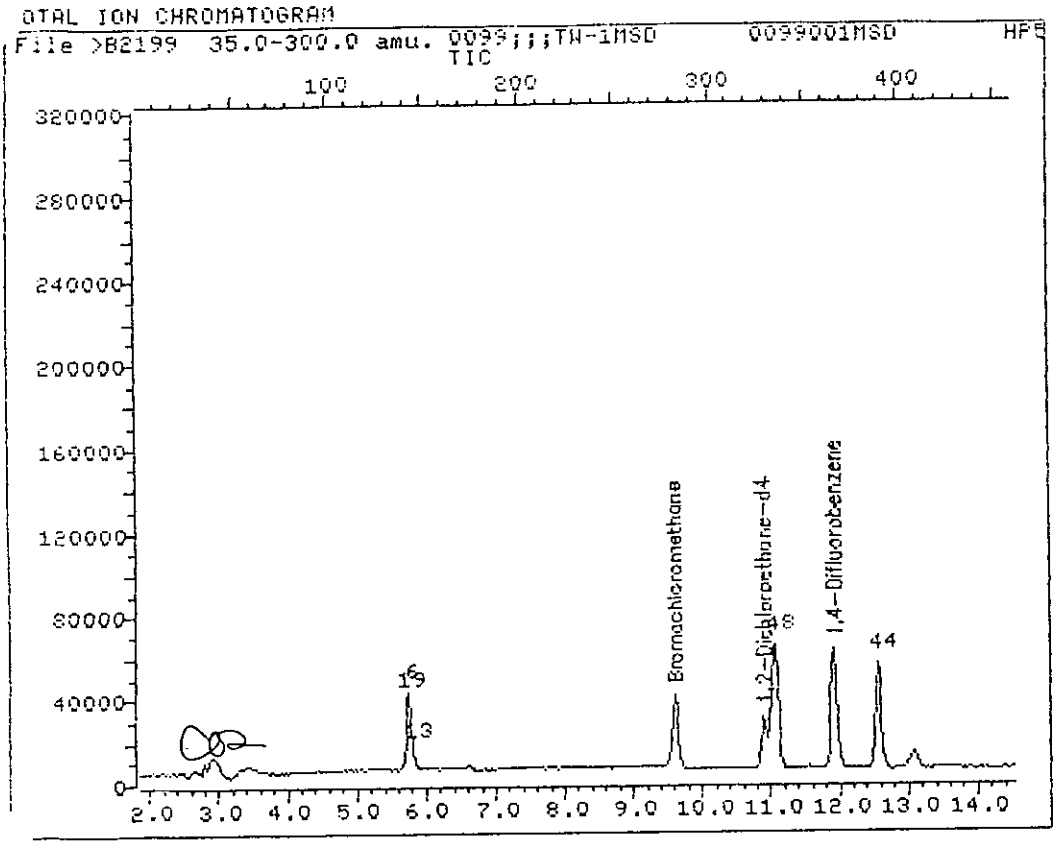
Quant Rev: 6 Quant Time: 930202 13:38
Injected at: 930202 13:10
Dilution Factor: 1.00000

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.61	127.8	25866	50.00	ug/L	89
6)	Chloroethane	5.77	63.8	308	.83	ug/L	100
12)	Acetone	5.82	42.8	3570	9.94	ug/L	93
19)	1,1-Dichloroethene	5.74	95.8	37582	71.40	ug/L	96
31)	1,2-Dichloroethane-d4	10.90	64.8	59074	47.41	ug/L	88
39)	*1,4-Difluorobenzene	11.93	113.8	142394	50.00	ug/L	94
44)	Trichloroethene	12.56	129.8	56633	53.72	ug/L	91
48)	Benzene	11.07	77.8	165376	50.59	ug/L	94
55)	*Chlorobenzene-d5	19.21	116.8	109735	50.00	ug/L	95
61)	Ethyl Methacrylate	16.37	68.9	4048	4048.00	NO CALIB	13
63)	Toluene	15.68	91.0	174601	53.36	ug/L	91
65)	Toluene-d8	15.52	97.8	150994	53.09	ug/L	95
66)	Chlorobenzene	19.29	111.8	118413	54.22	ug/L	93
70)	Cyclohexanone	24.87	55.0	2384	2384.00	NO CALIB	73
79)	1,2,4-Trimethylbenzene	23.10	104.8	1251^	1251.00	NO CALIB	83
86)	Butylbenzene	15.68	90.8	174601	53.36	ug/L	36
93)	Bromofluorobenzene	21.69	173.9	71456	61.31	ug/L	66

* Compound is ISTD

PAS 02/10/93



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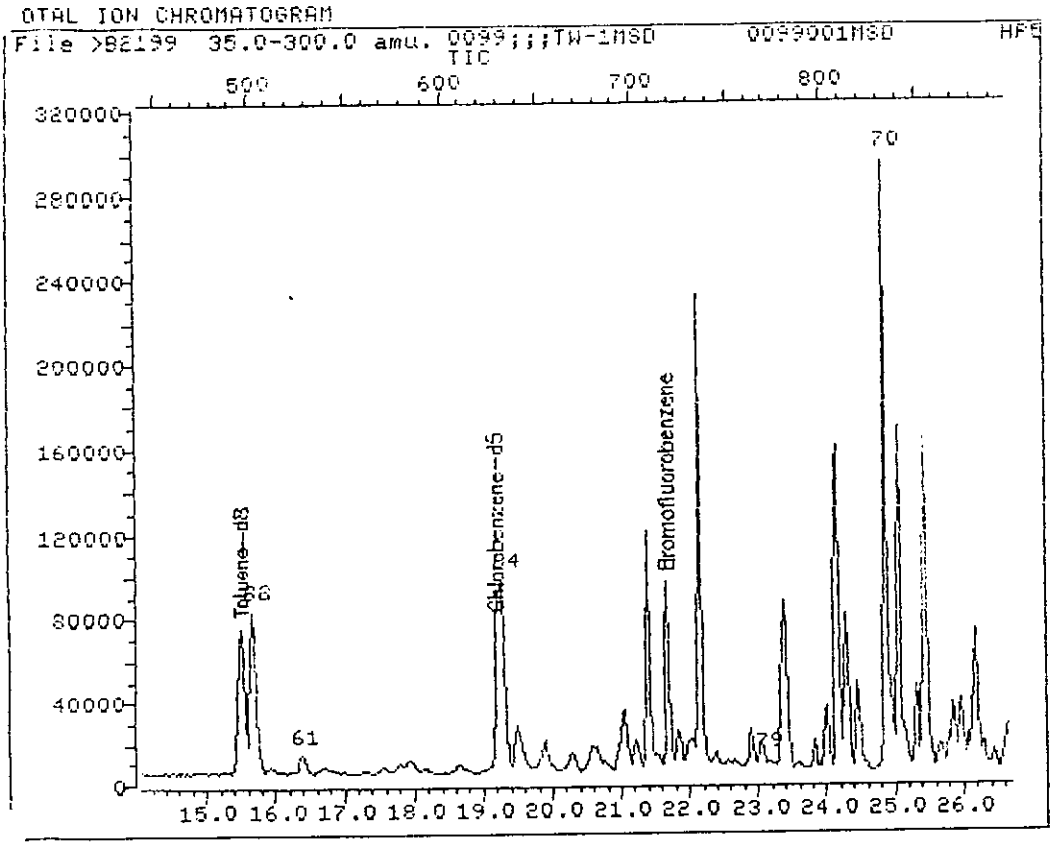
Misc: 0099001MSD HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 13:38
Injected at: 930202 13:10

TIC page 1 of 2



Data File: >B2199::B2 Quant Output File: ^B2199::QT
Name: 0099;;;TW-1MSD
Misc: 0099001MSD HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 13:38
Injected at: 930202 13:10

TIC page 2 of 2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSBTW-1 31

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001MSB

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2192.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/01/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	67	
75-34-3	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	50	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	46	
10061-02-6	trans-1,3-Dichloropropene	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	47	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

QUANT REPORT

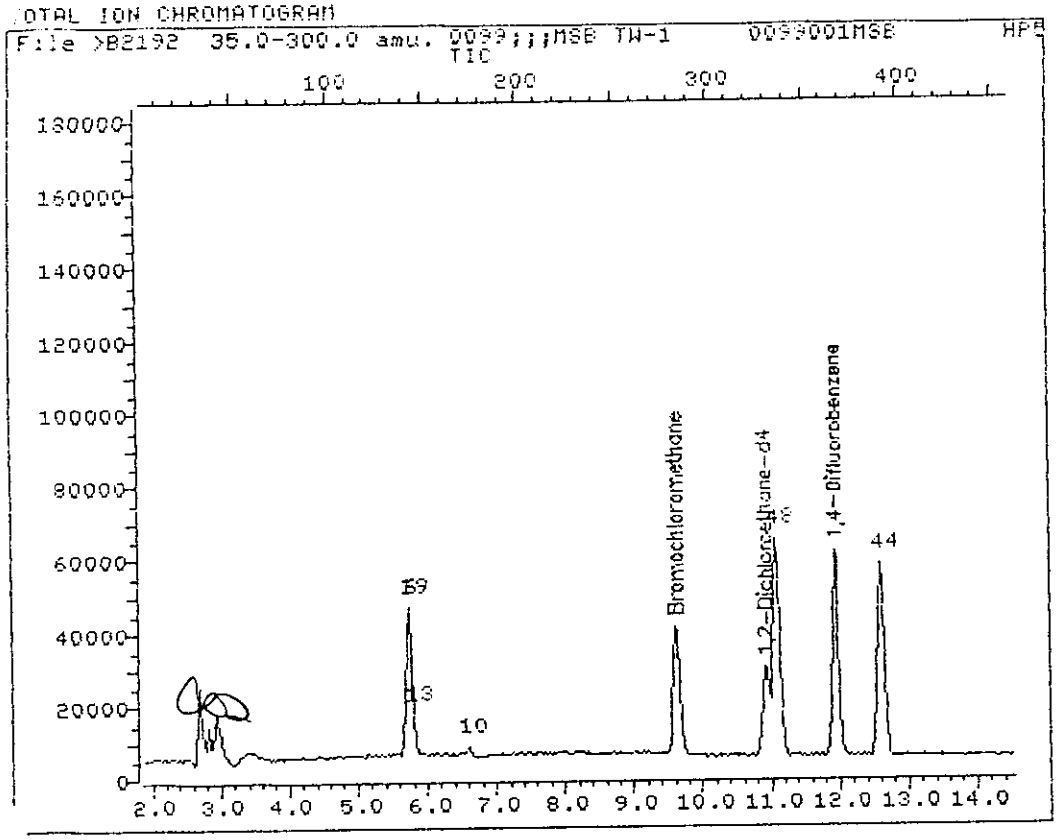
Operator ID: MSB Quant Rev: 6 Quant Time: 930201 23:03
Output File: ^B2192::QT Injected at: 930201 22:36
Data File: >B2192::B2 Dilution Factor: 1.00000
Name: 0099;;;MSB TW-1
Misc: 0099001MSB HP5995 B ;;;LLW;DF1 ;B1887

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.62	127.8	32902	50.00	ug/L	93
~~4)~~	~~Chloroethane~~	~~5.25~~	~~63.8~~	~~492~~	~~1.19~~	~~ug/L~~	~~100~~
10)	Methylene Chloride	6.61	83.8	2358	2.97	ug/L	94
~~15)~~	~~Acetone~~	~~5.81~~	~~42.8~~	~~5465~~	~~6.34~~	~~ug/L~~	~~98~~
19)	1,1-Dichloroethene	5.75	95.8	41238	67.47	ug/L	98
31)	1,2-Dichloroethane-d4	10.92	64.8	58544	33.27	ug/L	94
35)	*1,4-Difluorobenzene	11.94	113.8	152105	50.00	ug/L	90
44)	Trichloroethene	12.60	129.8	58998	50.58	ug/L	93
48)	Benzene	11.08	77.8	159112	46.56	ug/L	94
55)	*Chlorobenzene-d5	19.24	116.8	121815	50.00	ug/L	92
	Toluene	15.72	91.0	170704	47.30	ug/L	86
7.)	Toluene-d8	15.56	97.8	149851	47.77	ug/L	92
84)	Chlorobenzene	19.30	111.8	116579	50.66	ug/L	89
~~85)~~	~~Butylbenzene~~	~~15.72~~	~~90.8~~	~~170794~~	~~47.30~~	~~ug/L~~	~~36~~
93)	Bromofluorobenzene	21.67	173.9	76177	49.31	ug/L	65

* Compound is ISTD

PAS 02/10/93

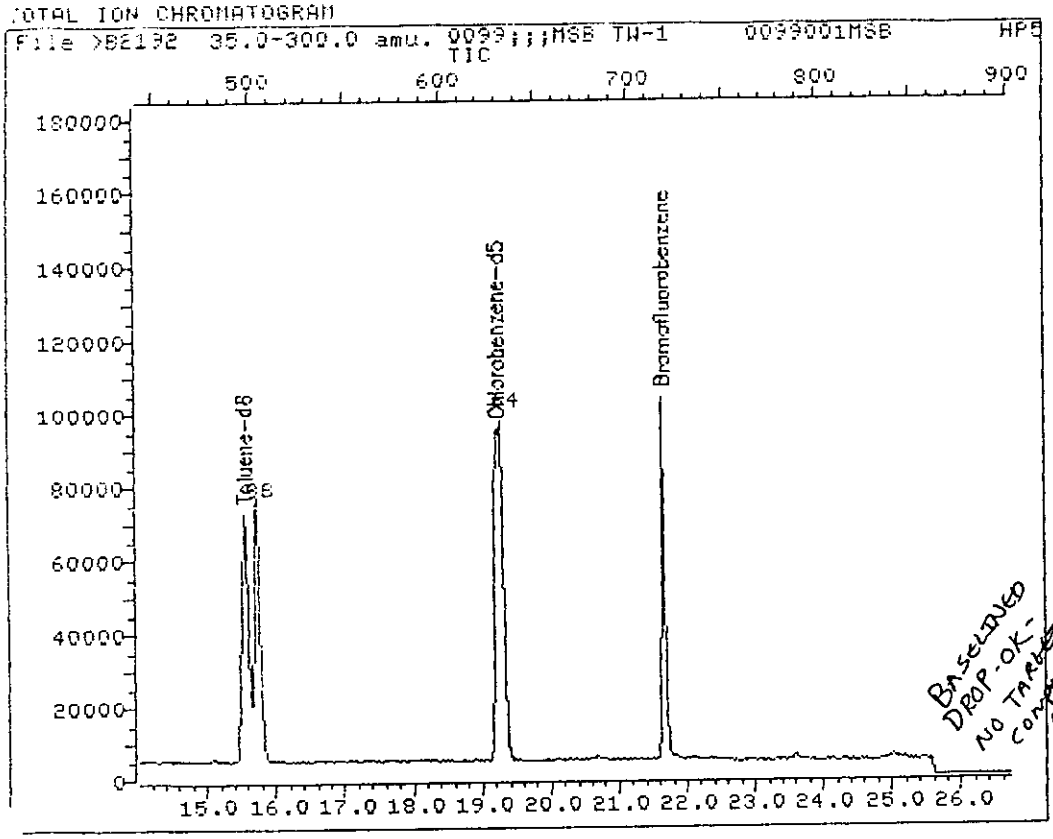


Data File: >B2192::B2 Quant Output File: ^B2192::QT
Name: 0099;;;MSB TW-1
Misc: 0099001MSB HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930201 23:03
Injected at: 930201 22:36

TIC page 1 of 2



Data File: >B2192::B2 Quant Output File: ^B2192::QT
Name: 0099;;;MSB TW-1
Misc: 0099001MSB HP5995 B ;;;LLW;DF1 ;B1887

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930201 15:05

Operator ID: MSB
Quant Time: 930201 23:03
Injected at: 930201 22:36

TIC page 2 of 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHKSTD 135

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0099 SAS No.: SDG No.: Z0099

Matrix: (soil/water) WATER Lab Sample ID: 0099001STD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2200.D

Level: (low/med) LOW Date Received: 01/27/93

% Moisture: not dec. _____ Data Analyzed: 02/02/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	41	
74-83-9	Bromomethane	40 ~~26~~	
75-01-4	Vinyl Chloride	41	
75-00-3	Chloroethane	42 ~~9~~	~~J~~
75-09-2	Methylene Chloride	43	B
67-64-1	Acetone	43	
75-15-0	Carbon Disulfide	42	
75-35-4	1,1-Dichloroethene	40	
75-34-3	1,1-Dichloroethane	41	
540-59-0	1,2-Dichloroethene (total)	82	
67-66-3	Chloroform	45	
107-06-2	1,2-Dichloroethane	42	
78-93-3	2-Butanone	42	
71-55-6	1,1,1-Trichloroethane	50	
56-23-5	Carbon Tetrachloride	52	
75-27-4	Bromodichloromethane	53	
78-87-5	1,2-Dichloropropane	53	
10061-01-5	cis-1,3-Dichloropropene	49 ~~78~~	
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	54	
79-00-5	1,1,2-Trichloroethane	51	
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	55 ~~22~~	
75-25-2	Bromoform	59	
108-10-1	4-Methyl-2-Pentanone	45	
591-78-6	2-Hexanone	41	
127-18-4	Tetrachloroethene	50	
79-34-5	1,1,2,2-Tetrachloroethane	56	
108-88-3	Toluene	49	B
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	49	
100-42-5	Styrene	50	
1330-20-7	Xylene (total)	48	

LHD 02/18/93

QUANT REPORT

Operator ID: MSB Quant Rev: 6 Quant Time: 930202 14:10
Output File: ^B2200::B1 Injected at: 930202 13:42
Data File: >B2200::B2 Dilution Factor: 1.00000
Name: 0099;;;TW-1STD
Misc: 0099001STD HP5995 B ;;;LLW;DF1 ;B1888

ID File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

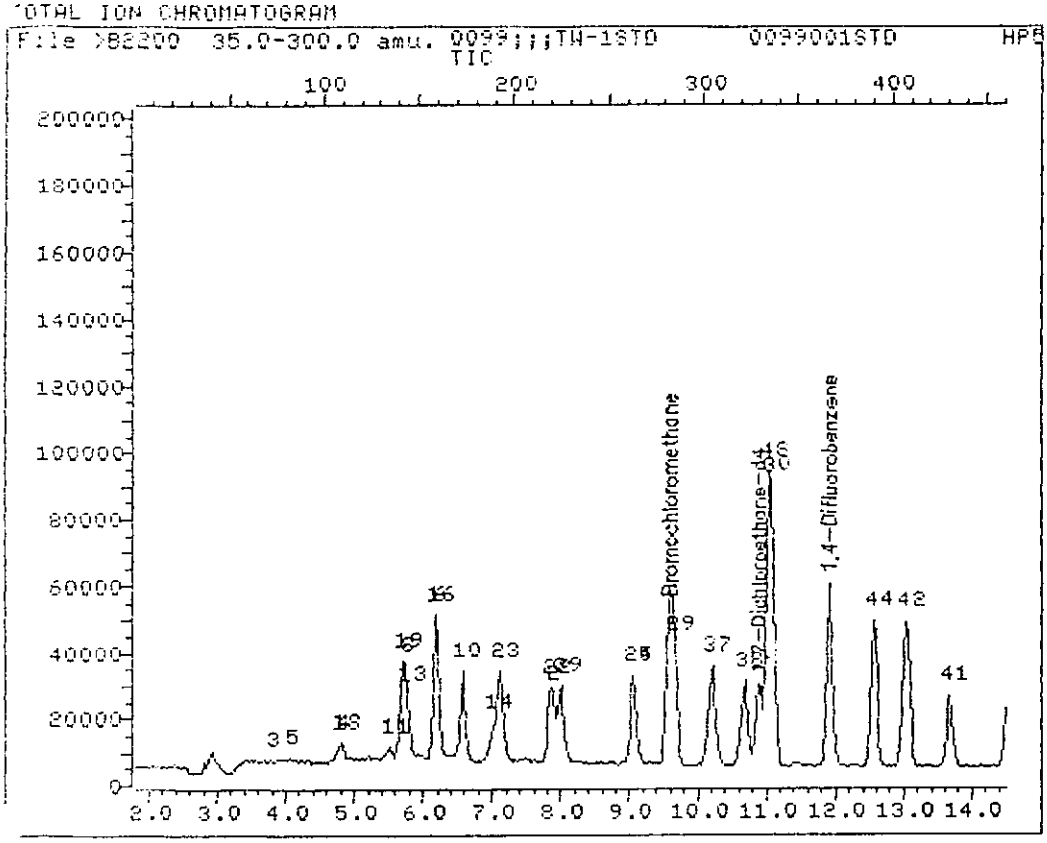
LHD 02/18/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	9.58	127.8	30662	50.00	ug/L	91
2)	Dichlorodifluoromethane	7.84	85.0	7505	83.67	ug/L	66
3)	Chloromethane	3.78	49.8	29258	40.68	ug/L	100
4)	Bromomethane	4.91	93.7	22349M	40.42	ug/L	100
5)	Vinyl Chloride	4.06	61.9	30487	41.44	ug/L	100
6)	Chloroethane	6.18	63.8	18598M	42.43	ug/L	100
8)	1,1,2-Trichlorotrifluoroethane	5.74	101.0	18006	41.29	ug/L	91
10)	Methylene Chloride	6.57	83.8	29073	43.24	ug/L	91
11)	Acrolein	5.52	55.8	10541	81.64	ug/L	96
)	Acetone	5.77	42.8	18343	43.07	ug/L	99
)	Acrylonitrile	7.04	52.8	29656	84.42	ug/L	96
16)	Carbon Disulfide	6.18	75.8	144160	41.71	ug/L	97
18)	Trichlorofluoromethane	4.80	100.8	14535	42.89	ug/L	96
19)	1,1-Dichloroethene	5.71	95.8	24914	39.93	ug/L	97
22)	1,1-Dichloroethane	7.87	62.9	80811	40.91	ug/L	99
23)	1,2-Dichloroethene (total)t	7.12	95.8	25898	40.86	ug/L	98
24)	1,2-Dichloroethene (total)c	9.06	95.8	27891	40.75	ug/L	93
25)	2-Butanone	9.06	43.0	28005	41.87	ug/L	89
27)	1,1-Dichloropropene	14.86	74.8	72921	42.64	ug/L	87
29)	Chloroform	9.66	82.8	82520	45.23	ug/L	94
30)	1,2-Dichloroethane	11.07	61.8	98496	41.96	ug/L	94
31)	1,2-Dichloroethane-d4	10.88	64.8	63165	42.76	ug/L	80
35)	*1,4-Difluorobenzene	11.90	113.8	136548	50.00	ug/L	93
37)	1,1,1-Trichloroethane	10.22	96.8	71590	50.36	ug/L	95
38)	Carbon Tetrachloride	10.69	116.8	55440	51.90	ug/L	94
39)	Vinyl Acetate	8.01	42.8	125751	47.31	ug/L	94
41)	Bromodichloromethane	13.67	82.8	47731	53.41	ug/L	90
42)	1,2-Dichloropropane	13.03	62.8	60233	53.11	ug/L	93
43)	cis-1,3-Dichloropropene	14.86	74.8	72921	48.54	ug/L	93
44)	Trichloroethene	12.56	129.8	51105	50.55	ug/L	91
46)	Dibromochloromethane	17.76	128.7	38578	54.23	ug/L	94
47)	1,1,2-Trichloroethane	16.71	96.8	36039	51.03	ug/L	82
48)	Benzene	11.05	77.8	153409	48.94	ug/L	90
49)	trans-1,3-Dichloropropene	16.24	74.8	75050	54.94	ug/L	95
50)	2-Chloroethylvinylether	14.53	62.8	34191	49.34	ug/L	92
)	1,2-Dibromoethane	18.10	106.9	51160	54.32	ug/L	94
52)	Bromoform	21.08	172.6	53180	59.20	ug/L	94
55)	*Chlorobenzene-d5	19.23	116.8	117042	50.00	ug/L	94
56)	4-Methyl-2-Pentanone	15.11	42.8	57538	45.35	ug/L	91
57)	2-Hexanone	17.29	42.8	36754	41.18	ug/L	91
58)	Tetrachloroethene	17.23	163.7	55093	50.14	ug/L	95

	Compound	R.T.	Q Ion	Area	Conc	Units	q
63)	Toluene-d8	18.55	97.8	149[illegible]75	49.24	ug/L	95
64)	Chlorobenzene	19.29	111.8	107511	46.15	ug/L	90
65)	Ethylbenzene	19.56	105.8	57608	49.33	ug/L	92
66)	Styrene	20.70	103.8	112855	50.32	ug/L	91
67)	Xylene (total)mp	19.84	105.8	127663	93.31	ug/L	95
68)	Xylene (total)o	20.67	105.8	62456	48.57	ug/L	97
69)	Methyl Cellosolve	14.53	57.0	7827	212.77	ug/L	83
73)	1,2,3-Trichloropropane	14.86	74.8	72921	48.41	ug/L	78
82)	1,3-Dichlorobenzene	23.73	145.8	104953	50.37	ug/L	92
83)	1,4-Dichlorobenzene	23.73	145.8	104953	50.37	ug/L	92
84)	1,2-Dichlorobenzene	24.29	145.8	49222	52.09	ug/L	96
86)	Butylbenzene	15.71	90.8	171924	49.26	ug/L	37
93)	Bromofluorobenzene	21.69	173.9	70476	56.69	ug/L	44

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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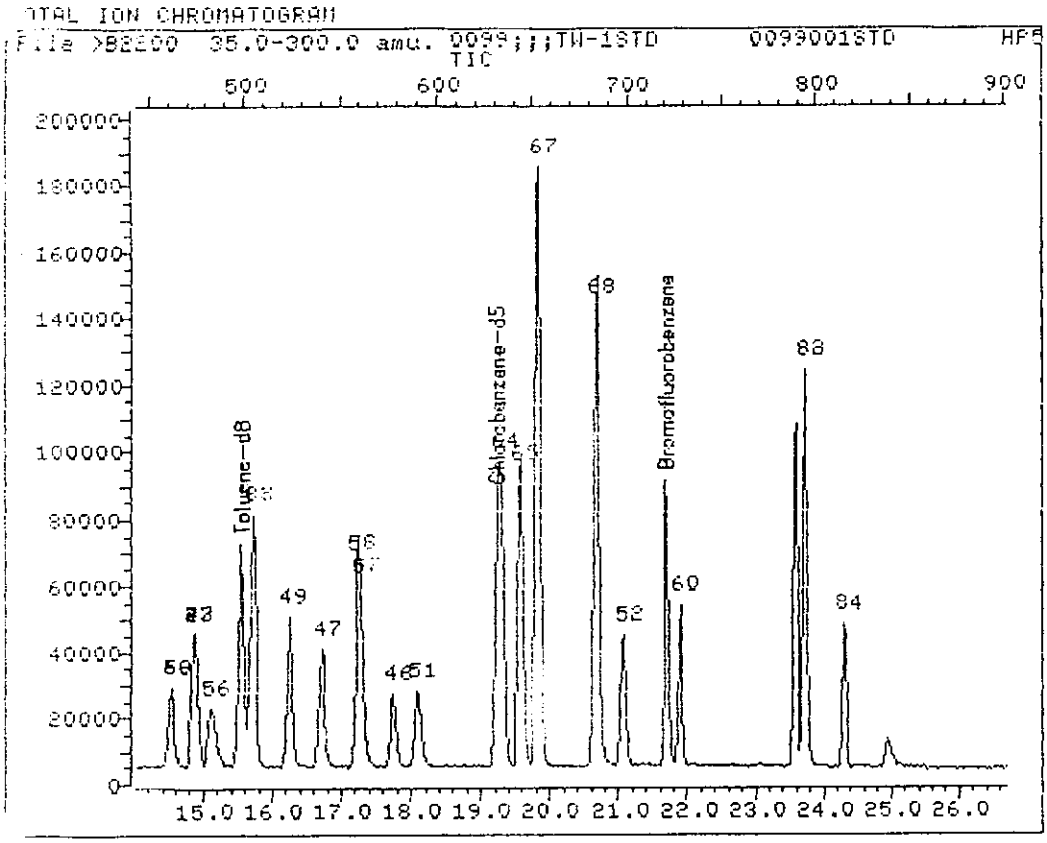
Misc: 0099001STD HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 14:10
Injected at: 930202 13:42

TIC page 1 of 2



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Name: 0099;;;TW-1STD
Misc: 0099001STD HP5995 B ;;;LLW;DF1 ;B1888

Id File: I_IFBW::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930202 10:13

Operator ID: MSB
Quant Time: 930202 14:10
Injected at: 930202 13:42

TIC page 2 of 2