



SDMS DocID 571854

Superfund Records

SITE:

Union Chemical

BREAK:

OTHER:

571854

**VAPOR EXTRACTION TREATABILITY STUDY
UNION CHEMICAL COMPANY SITE
SOUTH HOPE, MAINE**

Submitted to:

United States Environmental Protection Agency
Region I
John F. Kennedy Federal Building
Boston, Massachusetts 02203

Prepared on Behalf of:

Union Chemical Site Settling Defendants
c/o American Environmental Consultants
P.O. Box 310
Mont Vernon, New Hampshire 03057

Prepared By:

Balsam Environmental Consultants, Inc.
5 Industrial Way
Salem, New Hampshire 03057

April 3, 1992

Revision 0:

VOLUME 4 OF 23



October 25, 1991

Mr. John O'Donnell
Balsam Environmental Consultants, Inc.
5 Industrial Way
Salem, NH 03079

Dear John:

Enclosed are the results of the analyses for UCC Soil Analysis October 1991 (UCC Soil Analysis 10/07/91). This project was received at Enseco - Erco Laboratory on October 5, 1991, and was processed for a 21 day turnaround time and in accordance with CLP analyses and reporting protocols, where applicable. This letter authorizes the release of the analytical results and should be considered an integral part of this report.

Please refer to this project by the Enseco project number 010135 to expedite any further discussions. I will be happy to address any questions or concerns that you may have.

Sincerely,

A handwritten signature in cursive script that reads "Mary B. Ford".

Mary Ford
Program Administrator

Encl.



October 25, 1991

Mr. John O'Donnell
Balsam Environmental Consultants, Inc.
5 Industrial Way
Salem, NH 03079

Dear John:

Enclosed are the results of the analyses for UCC Soil Analysis October 1991 (UCC Soil Analysis 10/07/91). This project was received at Enseco - Erco Laboratory on October 5, 1991, and was processed for a 21 day turnaround time and in accordance with CLP analyses and reporting protocols, where applicable. This letter authorizes the release of the analytical results and should be considered an integral part of this report.

Please refer to this project by the Enseco project number 010135 to expedite any further discussions. I will be happy to address any questions or concerns that you may have.

Sincerely,



Mary Ford
Program Administrator

Encl.

SAMPLE DATA SUMMARY PACKAGE

April 1990

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 Project Name: UCC Self Analysis October 1991
 Erco Project Number: 10135

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October 25, 1991

Case Narrative

Client: Balsam Environmental Consultants, Inc.
Project Name: UCC Soil Analysis 10/07/91
Erco Project No.: 010135

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 5, 1991. Please see the sample description information sheet for a list of samples.
2. In the volatile fraction, 10135-04 (UCC-SB-B-17-4) was run outside of the holding time.

ANALYTICAL TEST REQUESTS
for
Balsam Environmental Consultants, Inc.

Lab ID: 010135	Group Code	Analysis Description	Custom Test?
0001 , 0004, 0006 , 0008	A	CLP GC/MS Organics (including TIDs) VOLATILE ORGANICS Volatile Library search PERCENT WATER	N N N
0009	B	CLP GC/MS Organics (including TIDs) VOLATILE ORGANICS VOLATILE ORGANICS	N N
0002 - 0003, 0005 , 0007	C	Total Organic Carbon (TOC) PERCENT WATER	N N

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 1 of 2)

ID	Manufacturer	Model	Data System
GC/MS #S-1	Finnigan	4530	INCOS
GC/MS #S-2	Finnigan	4615B	INCOS
GC/MS #S-3	Finnigan	4530	INCOS
GC/MS #V-5	Hewlett Packard	MSD	RTE-A
GC/MS #V-6	Hewlett Packard	MSD	RTE-A
GC/MS #S-6	Finnigan	Incos 50	Incos
GC/MS #V1*	Hewlett Packard	5996	RTE-6
GC/MS #V2*	Hewlett Packard	5996	RTE-6
GC/MS #V3*	Hewlett Packard	5996	RTE-6
GC/MS #V4*	Hewlett Packard	5985	RTE-6
GC/HECD #G2*	Hewlett Packard/OIC	5890/4420	HP-1000
GC/HECD/PID #G4*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/HECD/PID #G5*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/ECD #9-1	Hewlett Packard	5880	VG-3
GC/ECD #9-2	Hewlett Packard	5880	VG-4
GC/ECD #11-1	Hewlett Packard	5890	VG-1
GC/ECD #11-2	Hewlett Packard	5890	VG-2
GC/ECD #7-1	Hewlett Packard	5880	VG-11
GC/ECD #7-2	Hewlett Packard	5880	VG-12
GC/ECD #14-1	Hewlett Packard	5890 Series II	VG-15
GC/ECD #14-2	Hewlett Packard	5890 Series II	VG-16
GC/ECD #15-1	Hewlett Packard	5890 Series II	VG-13
GC/ECD #15-2	Hewlett Packard	5890 Series I	VG-14

*Purge-and-trap concentrators manufactured by Tekmar Company.

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 2 of 2)

ID	Manufacturer	Model	Data System
GC/ECD #12-1	Hewlett Packard	5890	VG-9
GC/FID #19	Hewlett Packard	5880	Beckman/HP-1000
GC/FID #28	Hewlett Packard	5890	Beckman/HP-1000
GC/PID #28	HNU Systems	P152	Beckman/HP-1000
GC/ECD #12-2	Hewlett Packard	5890	VG-10
IR1	Perkin-Elmer	FTIR 1600	Beckman/HP-1000
GC/FID #14	Hewlett Packard	5880	Beckman/HP-1000

*Purge-and-trap concentrators manufactured by Tekmar Company.

INSTRUMENT DETECTION LIMITS

Volatile Compounds

Hewlett-Packard 5996 GC/MS V1, V2, V3, V4, V5, S4, S5

<u>CAS Number</u>	<u>Parameter</u>	<u>ng</u>
74-87-3	Chloromethane	2 μ
74-83-9	Bromomethane	2 μ
75-01-4	Vinyl chloride	2 μ
75-00-3	Chloroethane	2 μ
75-09-2	Methylene chloride	2 μ
67-64-1	Acetone	2 μ
75-15-0	Carbon disulfide	1 μ
75-35-4	1,1-Dichloroethene	1 μ
75-34-3	1,1-Dichloroethane	1 μ
156-60-5	trans-1,2-Dichloroethene	1 μ
67-66-3	Chloroform	1 μ
107-06-2	1,2-Dichloroethane	1 μ
78-93-3	2-Butanone	1 μ
71-55-6	1,1,1-Trichloroethane	1 μ
56-23-5	Carbon tetrachloride	1 μ
108-05-4	Vinyl acetate	2 μ
75-27-4	Bromodichloromethane	1 μ
79-34-5	1,1,2,2-Tetrachloroethane	1 μ
78-87-5	1,2-Dichloropropane	1 μ
10061-02-6	trans-1,3-Dichloropropene	1 μ
79-01-6	Trichloroethene	1 μ
124-48-1	Dibromochloromethane	1 μ
79-00-5	1,1,2-Trichloroethane	1 μ
71-43-2	Benzene	1 μ
10061-01-5	cis-1,3-Dichloropropene	1 μ
110-75-8	2-Chloroethylvinylether	2 μ
75-25-2	Bromoform	1 μ
591-78-6	2-Hexanone	2 μ
108-10-1	4-Methyl-2-pentanone	2 μ
127-18-4	Tetrachloroethene	1 μ
108-88-3	Toluene	1 μ
108-90-7	Chlorobenzene	1 μ
100-41-4	Ethylbenzene	1 μ
100-42-5	Styrene	1 μ
	Total xylenes	1 μ

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

a - Fluorophenol	Surrogate standard
b - d ₅ -Phenol	Surrogate standard
c - d ₄ -2-Chlorophenol	Surrogate standard
d - d ₄ -Dichlorobenzene	Internal standard
e - d ₄ -1,2-Dichlorobenzene	Surrogate standard
f - d ₅ -Nitrobenzene	Surrogate standard
g - d ₈ -Naphthalene	Internal standard
h - Fluorobiphenyl	Surrogate standard
i - d ₁₀ -Acenaphthene	Internal standard
j - Tribromophenol	Surrogate standard
k - d ₁₀ -Phenanthrene	Internal standard
l - d ₁₄ -ortho-Terphenyl	Surrogate standard
m - d ₁₂ -Chrysene	Internal standard
n - d ₁₂ -Perylene	Internal standard

Volatile Compounds

1 - Bromochloromethane	Internal standard
2 - 1,2-Dichloroethane-d ₄	Surrogate standard
3 - 1,4-Difluorobenzene	Internal standard
4 - Toluene-d ₈	Surrogate standard
5 - Chlorobenzene-d ₅	Internal standard
6 - Bromofluorobenzene	Surrogate standard

CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER
6437 T6

PROJECT NAME _____
 SAMPLER(S) SIGNATURE(S) *[Signatures]* SEND REPORT TO: **J. O'Donnell**

PROJECT ADDRESS _____
 ANALYTICAL LABORATORY
EASECO METHOD **E240**

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS							COMMENTS	
											VOC	ABN	PESTICIDES/PCBs	TOL METALS	PP METALS	CYANIDE	TOC		
UCC-SB-B-13-3		10/4/91	0900	Soil	X	(S)	ice	N	40ml VOA	3	X								
UCC-SB-B-13-3C		10/4	0900	Soil	X	X	ice	N	200ml	1							X		CP Astec
UCC-SB-B-17-4		10/3	300PM	Soil	X		ice	N	200ml	1							X		
UCC-SB-B-17-4		10/3	300PM	Soil	X		ice	N	40ml VOA	3	X								all-
UCC-SB-A-08-3		10/4	11:30	Soil	X		ice	N	200ml	1								X	Mary
UCC-SB-A-08-3		10/4	11:30	Soil	X		ice	N	40ml VOA	3	X								Frank
UCC-SB-B-12-3		10/4	10:30	Soil	X		ice	N	250ml	1								X	
UCC-SB-B-12-3		10/4	10:30	Soil	X		ice	N	40ml VOA	3	X								
UCC-10/4-QA1		9/30	—	water	X		H2O/ice	N	40ml VOA	2	X								

RELINQUISHED BY: <i>[Signature]</i>	DATE: 10/4/91	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED FOR LABORATORY BY: <i>[Signature]</i>	DATE: 10/5/91	TIME: 1145

METHOD OF SHIPMENT: **Fed Ex** AIRBILL (OR SHIPPING INVOICE) NUMBER: **3329067711**

Enseco - Erco Laboratory
Internal Chain of Custody
Sample Control Tracking Log

Project Number	Project Acceptance Date	***Laboratory Acceptance Boxes***							
		Metals	Nonmetals	Chrom	Hydro	Semi GC/MS	VOA GC	VOA GC/MS	Data Central
010124									
010125									
010126	EA 10/4/91							P 10/5/91	M.B. 10/7
010127									
010128	SHB 10/5/91	SM 10/7/91 1-4					100/10/5		
010129	EA 10/4/91	SM 10/7/91 1	KKK 10/7/91 (1)			ST- 10-7		P 10/5/91	M.B. 10/7
010130	SHB 10/7								
010131	SHB 10/7	MAE 10/7/91							
010132	EA 10/4	SM 10/7/91 1-12							
010133	SHB 10/5					AS 10-7/91		100791 TRJ	
010134	EA 10/5							100791 TRJ	
010135	EA 10/5							100791 TRJ	TH 10/8
010136	EA 10/5					MAE 10/7/91			
010137									
010138	SHB 10/7							100791 TRJ	
010139	SHB 10/7	SM 10/7/91 1-3					100/10/7		
010140									
010141									
010142									
010143	EA 10/7								
010144									
010145									

NOTE: Please sign name and date to confirm laboratory acceptance. Sample Control must highlight the Laboratory Acceptance Box to indicate which laboratories are affected.

Enseco-Enco Laboratory

CHAIN OF CUSTODY

SAMPLE SAFE™ CONDITIONS No. **10988**

205 Alewife Brook Parkway
 Cambridge, Massachusetts 02138
 617/661-3111 Fax: 617/354-5258

Attn: Larry Pollack

Enseco Client: Versar
 Project: UCC Soil Samples
 Sampling Co. _____
 Sampling Site _____
 Team Leader _____

1. Packed by: _____ Seal # _____
2. Seal Intact Upon Receipt by Sampling Co.: Yes No
3. Condition of Contents: _____
4. Sealed for Shipping by: _____
5. Initial Contents Temp.: _____ °C Seal # _____
6. Sampling Status: Done Continuing Until _____
7. Seal Intact Upon Receipt by Laboratory: Yes No
8. Contents Temperature Upon Receipt by Lab: _____ °C
9. Condition of Contents: _____

Date of Collection	Time	Sample ID/Description	Sample Type	No. Containers	Analysis Parameters	Remarks
10/4/91	09:00	UCC-SB-13-3C	Soil	1	TOC on soil	Enco Project # 10135-02
10/3/91	15:00	UCC-SB-17-4	↓	↓	↓	-03
10/4	11:30	UCC-SB-A-08-3	↓	↓	↓	-05
10/4	10:30	UCC-SB-B-12-3	↓	↓	↓	-07
<p>please provide our data project due 10/25/91</p>						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) James H. Brudgett Received by: (signed) _____ Date 10/7/91 Time 15:50

2 _____

3 CO

SHIPPING DETAILS

Delivered to Shipper by: _____

Method of Shipment: _____ Airbill # _____

Received for Lab: Lawrence Pollack Signed: Larry Pollack Date/Time 10/8/91 15:00

Enseco Project No. _____

DATA REPORTING QUALIFIERS

The nine EPA-defined qualifiers to be used are as follow:

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

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

and df = dilution factor

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

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

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

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/rochlor target analyte when the percent difference between the two GC columns is greater than 25% for detected concentrations (see form X). The lower of the two values is reported on form I and flagged with a P.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do NOT apply this flag. Instead, use a laboratory-defined flag.

DATA REPORTING QUALIFIERS (CONT.)

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale (except as noted in exhibit D), the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- NOTE: For total xylenes where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately (e.g., a diluted analysis is not required for total xylenes unless the concentrations of either peak separately exceed 200 µg/L).
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number of the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.

The laboratory-defined data reporting qualifiers to be used are as follow:

- X - Indicates that the database has been modified.
- Z - Indicates coelution.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-13-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-01

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 15 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 20

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	29000	U
74-83-9	-----Bromomethane	29000	U
75-01-4	-----Vinyl Chloride	29000	U
75-00-3	-----Chloroethane	29000	U
75-09-2	-----Methylene Chloride	30000	B
67-64-1	-----Acetone	29000	U
75-15-0	-----Carbon Disulfide	14000	U
75-35-4	-----1,1-Dichloroethene	14000	U
75-34-3	-----1,1-Dichloroethane	14000	U
540-59-0	-----1,2-Dichloroethene (total)	14000	U
67-66-3	-----Chloroform	14000	U
107-06-2	-----1,2-Dichloroethane	14000	U
78-93-3	-----2-Butanone	15000	BJ
71-55-6	-----1,1,1-Trichloroethane	7700	J
56-23-5	-----Carbon Tetrachloride	14000	U
108-05-4	-----Vinyl Acetate	29000	U
75-27-4	-----Bromodichloromethane	14000	U
78-87-5	-----1,2-Dichloropropane	14000	U
10061-01-5	-----cis-1,3-Dichloropropene	14000	U
79-01-6	-----Trichloroethene	3300	J
124-48-1	-----Dibromochloromethane	14000	U
79-00-5	-----1,1,2-Trichloroethane	14000	U
71-43-2	-----Benzene	14000	U
10061-02-6	-----trans-1,3-Dichloropropene	14000	U
110-75-8	-----2-Chloroethylvinylether	29000	U
75-25-2	-----Bromoform	14000	U
108-10-1	-----4-Methyl-2-Pentanone	29000	U
591-78-6	-----2-Hexanone	29000	U
127-18-4	-----Tetrachloroethene	14000	U
79-34-5	-----1,1,2,2-Tetrachloroethane	14000	U
108-88-3	-----Toluene	8800	BJ
108-90-7	-----Chlorobenzene	14000	U
100-41-4	-----Ethylbenzene	97000	U
100-42-5	-----Styrene	14000	U
1330-20-7	-----Xylene (total)	570000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-13-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-01

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 15 Date Analyzed: 10/14/91

Column (pack/cap) CAP Dilution Factor: 20

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

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	21.25	99000	JN
2.	Unknown	22.41	280000	JN
3.	C3-benzene isomer	23.04	24000	JN
4.	Unknown	23.50	35000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-17-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: -(soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	1400	U
74-83-9	Bromomethane	1400	U
75-01-4	Vinyl Chloride	1400	U
75-00-3	Chloroethane	1400	U
75-09-2	Methylene Chloride	690	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	690	U
75-35-4	1,1-Dichloroethene	690	U
75-34-3	1,1-Dichloroethane	690	U
540-59-0	1,2-Dichloroethene (total)	690	U
67-66-3	Chloroform	690	U
107-06-2	1,2-Dichloroethane	690	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	690	U
56-23-5	Carbon Tetrachloride	690	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	690	U
78-87-5	1,2-Dichloropropane	690	U
10061-01-5	cis-1,3-Dichloropropene	690	U
79-01-6	Trichloroethene	690	U
124-48-1	Dibromochloromethane	690	U
79-00-5	1,1,2-Trichloroethane	690	U
71-43-2	Benzene	690	U
10061-02-6	trans-1,3-Dichloropropene	690	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	690	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	690	U
79-34-5	1,1,2,2-Tetrachloroethane	690	U
108-88-3	Toluene	690	U
108-90-7	Chlorobenzene	690	U
100-41-4	Ethylbenzene	690	U
100-42-5	Styrene	690	U
1330-20-7	Xylene (total)	690	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-17-4

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-18-5	Decane	20.18	3300	JN
2.	Unknown	21.17	1200	JN
3. 1120-21-4	Undecane	24.30	3000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-08-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/08/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	3	BJ
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-08-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/08/91

Column (pack/cap) CAP Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	1500	U
74-83-9	-----Bromomethane	1500	U
75-01-4	-----Vinyl Chloride	1500	U
75-00-3	-----Chloroethane	1500	U
75-09-2	-----Methylene Chloride	160	BJ
67-64-1	-----Acetone	1500	U
75-15-0	-----Carbon Disulfide	730	U
75-35-4	-----1,1-Dichloroethene	730	U
75-34-3	-----1,1-Dichloroethane	730	U
540-59-0	-----1,2-Dichloroethene (total)	730	U
67-66-3	-----Chloroform	730	U
107-06-2	-----1,2-Dichloroethane	730	U
78-93-3	-----2-Butanone	1500	U
71-55-6	-----1,1,1-Trichloroethane	660	J
56-23-5	-----Carbon Tetrachloride	730	U
108-05-4	-----Vinyl Acetate	1500	U
75-27-4	-----Bromodichloromethane	730	U
78-87-5	-----1,2-Dichloropropane	730	U
10061-01-5	-----cis-1,3-Dichloropropene	730	U
79-01-6	-----Trichloroethene	230	J
124-48-1	-----Dibromochloromethane	730	U
79-00-5	-----1,1,2-Trichloroethane	730	U
71-43-2	-----Benzene	730	U
10061-02-6	-----trans-1,3-Dichloropropene	730	U
110-75-8	-----2-Chloroethylvinylether	1500	U
75-25-2	-----Bromoform	730	U
108-10-1	-----4-Methyl-2-Pentanone	1500	U
591-78-6	-----2-Hexanone	1500	U
127-18-4	-----Tetrachloroethene	730	U
79-34-5	-----1,1,2,2-Tetrachloroethane	730	U
108-88-3	-----Toluene	410	J
108-90-7	-----Chlorobenzene	730	U
100-41-4	-----Ethylbenzene	4700	
100-42-5	-----Styrene	730	U
1330-20-7	-----Xylene (total)	31000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 5 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	7700	JN
2. 124-18-5	Decane	21.70	1700	JN
3.	Unknown	22.05	11000	JN
4.	C3-benzene isomer	22.79	1900	JN
5.	Unknown	23.16	1500	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3RE

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl Chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene Chloride	730	U
67-64-1	Acetone	1500	U
75-15-0	Carbon Disulfide	730	U
75-35-4	1,1-Dichloroethene	730	U
75-34-3	1,1-Dichloroethane	730	U
540-59-0	1,2-Dichloroethene (total)	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
78-93-3	2-Butanone	1500	U
71-55-6	1,1,1-Trichloroethane	730	U
56-23-5	Carbon Tetrachloride	730	U
108-05-4	Vinyl Acetate	1500	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	730	U
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
110-75-8	2-Chloroethylvinylether	1500	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-Pentanone	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U
108-88-3	Toluene	730	U
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	410	J
100-42-5	Styrene	730	U
1330-20-7	Xylene (total)	4900	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3RE

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	5200	JN
2. 124-18-5	Decane	21.68	1600	JN
3.	Unknown	22.05	8200	JN
4.	C9H12 isomer	22.69	1300	JN
5.	Unknown	23.13	1000	JN
6.	C4-benzene isomer	25.19	790	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-4-QA1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 10135-09

Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 0.80

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-4-QA1

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 10135-09
Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835
Level: (low/med) LOW Date Received: 10/05/91
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981

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

% Moisture: not dec. 0 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	620	J
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	610	J
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
110-75-8	2-Chloroethylvinylether	1200	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	360	J
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981

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

% Moisture: not dec. 0 Date Analyzed: 10/14/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3627

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

% Moisture: not dec. 0 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	1200	U
74-83-9	-----Bromomethane	1200	U
75-01-4	-----Vinyl Chloride	1200	U
75-00-3	-----Chloroethane	1200	U
75-09-2	-----Methylene Chloride	620	U
67-64-1	-----Acetone	1200	U
75-15-0	-----Carbon Disulfide	620	U
75-35-4	-----1,1-Dichloroethene	620	U
75-34-3	-----1,1-Dichloroethane	620	U
540-59-0	-----1,2-Dichloroethene (total)	620	U
67-66-3	-----Chloroform	620	U
107-06-2	-----1,2-Dichloroethane	620	U
78-93-3	-----2-Butanone	530	J
71-55-6	-----1,1,1-Trichloroethane	620	U
56-23-5	-----Carbon Tetrachloride	620	U
108-05-4	-----Vinyl Acetate	1200	U
75-27-4	-----Bromodichloromethane	620	U
78-87-5	-----1,2-Dichloropropane	620	U
10061-01-5	-----cis-1,3-Dichloropropene	620	U
79-01-6	-----Trichloroethene	620	U
124-48-1	-----Dibromochloromethane	620	U
79-00-5	-----1,1,2-Trichloroethane	620	U
71-43-2	-----Benzene	620	U
10061-02-6	-----trans-1,3-Dichloropropene	620	U
110-75-8	-----2-Chloroethylvinylether	1200	U
75-25-2	-----Bromoform	620	U
108-10-1	-----4-Methyl-2-Pentanone	1200	U
591-78-6	-----2-Hexanone	1200	U
127-18-4	-----Tetrachloroethene	620	U
79-34-5	-----1,1,2,2-Tetrachloroethane	130	J
108-88-3	-----Toluene	130	J
108-90-7	-----Chlorobenzene	620	U
100-41-4	-----Ethylbenzene	620	U
100-42-5	-----Styrene	620	U
1330-20-7	-----Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3627

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

% Moisture: not dec. 0 Date Analyzed: 10/19/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798

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

% Moisture: not dec. 0 Date Analyzed: 10/08/91

Column: (pack/cap) CAP Dilution Factor: 0.80

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798

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

% Moisture: not dec. 0 Date Analyzed: 10/08/91

Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK06

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: BLANK06
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 10/09/91
 Column: (pack/cap) CAP Dilution Factor: 1.0

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	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK06

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: BLANK06
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

April 1990

DELIVERABLES INDEX

Client: Baker Environmental Consultants, Inc.
 Project Name: UCC Self Analysis October 1991
 Erco Project Number: 10135

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A. QC Summary	
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3. Erco Method Blank Summary (Form IV)	<u>4</u>
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April 1990

DELIVERABLES INDEX (Cont.)

Client: Babson Environmental Consultants
 Project Name: UCC Soil Analysis
 Erco Project Number: 10135

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2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	
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4. GC/MS Tuning and Mass Calibration Summary (Form V)	
B. Sample Data (Form I, Form I-TIC, and Raw Data)	
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5. Internal Standard Area Summary (Form VIII)	
D. Raw QC Data	
1. DFTPP Bar Graph and Mass Listing	
2. Erco Blank Data	
3. Matrix Spike/Matrix Spike Duplicate Data	
	↓
IV. PESTICIDES/PCBs DATA	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	NA
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	
3. Erco Method Blank Summary (Form IV)	
B. Sample Data (Form I and Raw Data)	
	↓

October 25, 1991

Case Narrative

Client: Balsam Environmental Consultants, Inc.
Project Name: UCC Soil Analysis 10/07/91
Erco Project No.: 010135

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 5, 1991. Please see the sample description information sheet for a list of samples.
2. In the volatile fraction, 10135-04 (UCC-SB-B-17-4) was run outside of the holding time.

ANALYTICAL TEST REQUESTS
for
Balsam Environmental Consultants, Inc.

Lab ID: 010135	Group Code	Analysis Description	Custom Test?
0001 , 0004, 0006 , 0008	A	CLP GC/MS Organics (including TIDs) VOLATILE ORGANICS Volatile Library search PERCENT WATER	N N N
0009	B	CLP GC/MS Organics (including TIDs) VOLATILE ORGANICS VOLATILE ORGANICS	N N
0002 - 0003, 0005 , 0007	C	Total Organic Carbon (TOC) PERCENT WATER	N N

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 1 of 2)

ID	Manufacturer	Model	Data System
GC/MS #S-1	Finnigan	4530	INCOS
GC/MS #S-2	Finnigan	4615B	INCOS
GC/MS #S-3	Finnigan	4530	INCOS
GC/MS #V-5	Hewlett Packard	MSD	RTE-A
GC/MS #V-6	Hewlett Packard	MSD	RTE-A
GC/MS #S-6	Finnigan	Incos 50	Incos
GC/MS #V1*	Hewlett Packard	5996	RTE-6
GC/MS #V2*	Hewlett Packard	5996	RTE-6
GC/MS #V3*	Hewlett Packard	5996	RTE-6
GC/MS #V4*	Hewlett Packard	5985	RTE-6
GC/HECD #G2*	Hewlett Packard/OIC	5890/4420	HP-1000
GC/HECD/PID #G4*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/HECD/PID #G5*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/ECD #9-1	Hewlett Packard	5880	VG-3
GC/ECD #9-2	Hewlett Packard	5880	VG-4
GC/ECD #11-1	Hewlett Packard	5890	VG-1
GC/ECD #11-2	Hewlett Packard	5890	VG-2
GC/ECD #7-1	Hewlett Packard	5880	VG-11
GC/ECD #7-2	Hewlett Packard	5880	VG-12
GC/ECD #14-1	Hewlett Packard	5890 Series II	VG-15
GC/ECD #14-2	Hewlett Packard	5890 Series II	VG-16
GC/ECD #15-1	Hewlett Packard	5890 Series II	VG-13
GC/ECD #15-2	Hewlett Packard	5890 Series I	VG-14

*Purge-and-trap concentrators manufactured by Tekmar Company.

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 2 of 2)

ID	Manufacturer	Model	Data System
GC/ECD #12-1	Hewlett Packard	5890	VG-9
GC/FID #19	Hewlett Packard	5880	Beckman/HP-1000
GC/FID #28	Hewlett Packard	5890	Beckman/HP-1000
GC/PID #28	HNU Systems	P152	Beckman/HP-1000
GC/ECD #12-2	Hewlett Packard	5890	VG-10
IR1	Perkin-Elmer	FTIR 1600	Beckman/HP-1000
GC/FID #14	Hewlett Packard	5880	Beckman/HP-1000

*Purge-and-trap concentrators manufactured by Tekmar Company.

INSTRUMENT DETECTION LIMITS

Volatile Compounds

Hewlett-Packard 5996 GC/MS V1, V2, V3, V4, V5, S4, S5

<u>CAS Number</u>	<u>Parameter</u>	<u>ng</u>
74-87-3	Chloromethane	2 μ
74-83-9	Bromomethane	2 μ
75-01-4	Vinyl chloride	2 μ
75-00-3	Chloroethane	2 μ
75-09-2	Methylene chloride	2 μ
67-64-1	Acetone	2 μ
75-15-0	Carbon disulfide	1 μ
75-35-4	1,1-Dichloroethene	1 μ
75-34-3	1,1-Dichloroethane	1 μ
156-60-5	trans-1,2-Dichloroethene	1 μ
67-66-3	Chloroform	1 μ
107-06-2	1,2-Dichloroethane	1 μ
78-93-3	2-Butanone	1 μ
71-55-6	1,1,1-Trichloroethane	1 μ
56-23-5	Carbon tetrachloride	1 μ
108-05-4	Vinyl acetate	2 μ
75-27-4	Bromodichloromethane	1 μ
79-34-5	1,1,2,2-Tetrachloroethane	1 μ
78-87-5	1,2-Dichloropropane	1 μ
10061-02-6	trans-1,3-Dichloropropene	1 μ
79-01-6	Trichloroethene	1 μ
124-48-1	Dibromochloromethane	1 μ
79-00-5	1,1,2-Trichloroethane	1 μ
71-43-2	Benzene	1 μ
10061-01-5	cis-1,3-Dichloropropene	1 μ
110-75-8	2-Chloroethylvinylether	2 μ
75-25-2	Bromoform	1 μ
591-78-6	2-Hexanone	2 μ
108-10-1	4-Methyl-2-pentanone	2 μ
127-18-4	Tetrachloroethene	1 μ
108-88-3	Toluene	1 μ
108-90-7	Chlorobenzene	1 μ
100-41-4	Ethylbenzene	1 μ
100-42-5	Styrene	1 μ
	Total xylenes	1 μ

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

a - Fluorophenol	Surrogate standard
b - d ₅ -Phenol	Surrogate standard
c - d ₄ -2-Chlorophenol	Surrogate standard
d - d ₄ -Dichlorobenzene	Internal standard
e - d ₄ -1,2-Dichlorobenzene	Surrogate standard
f - d ₅ -Nitrobenzene	Surrogate standard
g - d ₈ -Naphthalene	Internal standard
h - Fluorobiphenyl	Surrogate standard
i - d ₁₀ -Acenaphthene	Internal standard
j - Tribromophenol	Surrogate standard
k - d ₁₀ -Phenanthrene	Internal standard
l - d ₁₄ -ortho-Terphenyl	Surrogate standard
m - d ₁₂ -Chrysene	Internal standard
n - d ₁₂ -Perylene	Internal standard

Volatile Compounds

1 - Bromochloromethane	Internal standard
2 - 1,2-Dichloroethane-d ₄	Surrogate standard
3 - 1,4-Difluorobenzene	Internal standard
4 - Toluene-d ₈	Surrogate standard
5 - Chlorobenzene-d ₅	Internal standard
6 - Bromofluorobenzene	Surrogate standard

CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER
643776

PROJECT NAME _____
 SAMPLER(S) SIGNATURE(S) *[Signatures]* BUTLER
 SEND REPORT TO: **J. O'Donnell**

PROJECT ADDRESS _____
 ANALYTICAL LABORATORY
EASECO
 METHOD **R240**

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS						COMMENTS	
											VOC	ASB	PESTICIDES/PCPB	TOL METALS	PP METALS	CYANIDE		TOC
UCC-SB-B-13-3		10/4/91	0900	Soil	X	X	ice	N	40ml VOA	3	X							
UCC-SB-B-13-3C		10/4	0900	Soil	X	X	ice	N	250ml	1							X	CPA Astaco
UCC-SB-B-17-4		10/3	300PM	Soil	X		ice	N	250ml	1							X	
UCC-SB-B-17-4		10/3	300PM	Soil	X		ice	N	40ml VOA	3	X							allu:
UCC-SB-A-08-3		10/4	11:30	Soil	X		ice	N	250ml	1							X	Wamy
UCC-SB-A-08-3		10/4	11:30	Soil	X		ice	N	40ml VOA	3	X							Ford
UCC-SB-B-12-3		10/4	10:30	Soil	X		ice	N	250ml	1							X	
UCC-SB-B-12-3		10/4	10:30	Soil	X		ice	N	40ml VOA	3	X							
UCC-10/4-QA1		9/30	—	water			HCl/ice	N	40ml VOA	2	X							

RELINQUISHED BY: *[Signature]* DATE: 10/4/91 TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED FOR LABORATORY BY: *[Signature]* DATE: 10/5/91 TIME: 1145

METHOD OF SHIPMENT: **Fed Ex** AIRBILL (OR SHIPPING INVOICE) NUMBER: **3329067711**

Enseco - Erco Laboratory
Internal Chain of Custody
Sample Control Tracking Log

Project Number	Project Acceptance Date	***Laboratory Acceptance Boxes***							
		Metals	Nonmetals	Chrom	Hydro	Semi GC/MS	VOA GC	VOA GC/MS	Data Central
010124									
010125									
010126	ETH 10/4/91							P 10/5/91	M.B. 10/7
010127									
010128	SHB 10/5/91	SM 10/07/91 1-4						100 10/5	
010129	ETH 10/4/91	SM 10/07/91 1	KKK 10/7/91	①		ST-2 10-7		P 10/5/91	M.B. 10/7
010130	SHB 10/7								
010131	SHB 10/7	SM 10/7/91							
010132	ETH 10/4	SM 10/07/91 1-12							
010133	SHB 10/5					10-7/91		100791 TR	
010134	ETH 10/5							100791 TR	
010135	ETH 10/5							100791 TR	TH 10/8
010136	ETH 10/5					10-7/91			
010137									
010138	SHB 10/7							100791 TR	
010139	SHB 10/7	SM 10/07/91 1-3					100 10/7		
010140									
010141									
010142									
010143	ETH 10/7								
010144									
010145									

NOTE: Please sign name and date to confirm laboratory acceptance. Sample Control must highlight the Laboratory Acceptance Box to indicate which laboratories are affected. 8

Enseco Laboratory

205 Alewife Brook Parkway
 Cambridge, Massachusetts 02138
 617/661-3111 Fax: 617/354-5258

Attn: Larry Pollack

Enseco Client: Versar

Project: UCC Soil Samples

Sampling Co.: _____

Sampling Site: _____

Team Leader: _____

CHAIN OF CUSTODY

SAMPLE SAFE™ CONDITIONS

No. 10988

1. Packed by: _____ Seal # _____
2. Seal Intact Upon Receipt by Sampling Co.: Yes No
3. Condition of Contents: _____
4. Sealed for Shipping by: _____
5. Initial Contents Temp.: _____ °C Seal # _____
6. Sampling Status: Done Continuing Until _____
7. Seal Intact Upon Receipt by Laboratory: Yes No
8. Contents Temperature Upon Receipt by Lab: _____ °C
9. Condition of Contents: _____

Date of Collection	Time	Sample ID/Description	Sample Type	No. Containers	Analysis Parameters	Remarks
10/4/91	09:00	UCC-SB-13-3C	Soil	1	TOC on soils	10135-02
10/3/91	15:00	UCC-SB-17-4	↓	↓	↓	-03
10/4	11:30	UCC-SB-A-08-3	↓	↓	↓	-05
10/4	10:30	UCC-SB-B-12-3	↓	↓	↓	-07
<p>please provide raw data project due 10/25/91</p>						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) <u>James H. Budek</u>	Received by: (signed) _____	Date <u>10/7/91</u>	Time <u>15:50</u>
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 <u>CO</u>	_____	_____	_____

SHIPPING DETAILS

Delivered to Shipper by: _____

Method of Shipment: _____ Airbill # _____

Received for Lab: LAWRENCE TULLY Signed: Larry Pollack Date/Time 10/2/91 10:00

Enseco Project No. _____

DATA REPORTING QUALIFIERS

The nine EPA-defined qualifiers to be used are as follow:

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

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

and df = dilution factor

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

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

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

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/aroclor target analyte when the percent difference between the two GC columns is greater than 25% for detected concentrations (see form X). The lower of the two values is reported on form I and flagged with a P.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do NOT apply this flag. Instead, use a laboratory-defined flag.

DATA REPORTING QUALIFIERS (CONT.)

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale (except as noted in exhibit D), the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

NOTE: For total xylenes where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately (e.g., a diluted analysis is not required for total xylenes unless the concentrations of either peak separately exceed 200 µg/L).

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

The laboratory-defined data reporting qualifiers to be used are as follow:

- X - Indicates that the database has been modified.
- Z - Indicates coelution.

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-B-12-3	128 *	136 *	129 *	0	3
02	SB-B-12-3RE	69 *	64 *	59 *	0	3
03	SB-B-13-3	90	103	80	0	0
04	SB-B-17-4	94	94	87	0	0
05	VBLK04	101	101	106	0	0
06	VBLK05	100	94	97	0	0
07	VBLK01	100	101	105	0	0
08	VBLK02	99	96	92	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)
 S2 (BFB) = Bromofluorobenzene (74-121)
 S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-A-08-3	99	95	102	0	0
02	VBLK03	104	105	100	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)
 S2 (BFB) = Bromofluorobenzene (74-121)
 S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	10-4-QA1	95	104	104	0	0
02	VBLK06	97	99	102	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)
 S2 (BFB) = Bromofluorobenzene (86-115)
 S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Lab File ID: B2981 Lab Sample ID: BLANK01
Date Analyzed: 10/14/91 Time Analyzed: 1533
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: V2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-B-13-3	10135-01	B2989	2238

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: A3627 Lab Sample ID: BLANK02
 Date Analyzed: 10/19/91 Time Analyzed: 1216
 Matrix: (soil/water) SOIL Level: (low/med) MED
 Instrument ID: V1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-B-17-4	10135-04	A3630	1434

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Lab File ID: F2798 Lab Sample ID: BLANK03
Date Analyzed: 10/08/91 Time Analyzed: 1409
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-A-08-3	10135-06	F2803	1740

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Lab File ID: F2870 Lab Sample ID: BLANK04
Date Analyzed: 10/10/91 Time Analyzed: 1428
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-B-12-3	10135-08	F2880	2043

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Lab File ID: F2910 Lab Sample ID: BLANK05
Date Analyzed: 10/11/91 Time Analyzed: 2250
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-B-12-3RE	10135-08RE	F2919	0523

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Lab File ID: F2828 Lab Sample ID: BLANK06
Date Analyzed: 10/09/91 Time Analyzed: 1116
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10-4-QA1	10135-09	F2835	1534

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: A2830 BFB Injection Date: 08/29/91
 Instrument ID: V1 BFB Injection Time: 1010
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	51.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.0
175	5.0 - 9.0% of mass 174	6.9 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.9 (95.6)1
177	5.0 - 9.0% of mass 176	6.6 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	A2831	08/29/91	1055
02	VSTD020	20PPBSTD	A2832	08/29/91	1139
03	VSTD100	100PPBSTD	A2834	08/29/91	1346
04	VSTD150	150PPBSTD	A2835	08/29/91	1422
05	VSTD200	200PPBSTD	A2836	08/29/91	1458

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: B2949 BFB Injection Date: 10/11/91
 Instrument ID: V2 BFB Injection Time: 1641
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	Greater than 50.0% of mass 95	97.1
175	5.0 - 9.0% of mass 174	6.8 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	95.5 (98.4)1
177	5.0 - 9.0% of mass 176	6.4 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	B2951	10/11/91	1745
02	VSTD020	20PPBSTD	B2952	10/11/91	1856
03	VSTD100	100PPBSTD	B2955	10/11/91	2116
04	VSTD150	150PPBSTD	B2956	10/11/91	2159
05	VSTD200	200PPBSTD	B2959	10/12/91	0025

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: B2977 BFB Injection Date: 10/14/91
 Instrument ID: V2 BFB Injection Time: 1208
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	52.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	97.8
175	5.0 - 9.0% of mass 174	7.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	97.4 (99.6)1
177	5.0 - 9.0% of mass 176	7.2 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	B2979	10/14/91	1334
02	VBLK01	BLANK01	B2981	10/14/91	1533
03	SB-B-13-3	10135-01	B2989	10/14/91	2238

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: A3625 BFB Injection Date: 10/19/91
 Instrument ID: V1 BFB Injection Time: 1046
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	52.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	95.5
175	5.0 - 9.0% of mass 174	7.4 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	96.0 (100.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	A3626	10/19/91	1128
02	VBLK02	BLANK02	A3627	10/19/91	1216
03	SB-B-17-4	10135-04	A3630	10/19/91	1434

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: F2555 BFB Injection Date: 09/22/91
 Instrument ID: V6 BFB Injection Time: 0915
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.0
75	30.0 - 60.0% of mass 95	54.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	4.5 (6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.8 (100.1)1
177	5.0 - 9.0% of mass 176	4.9 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2557	09/22/91	1110
02	VSTD020	20PPBSTD	F2560	09/22/91	1322
03	VSTD100	100PPBSTD	F2561	09/22/91	1357
04	VSTD150	150PPBSTD	F2562	09/22/91	1435
05	VSTD200	200PPBSTD	F2563	09/22/91	1530

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: F2789 BFB Injection Date: 10/08/91
 Instrument ID: V6 BFB Injection Time: 0734
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	78.1
175	5.0 - 9.0% of mass 174	6.1 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.4 (95.2)1
177	5.0 - 9.0% of mass 176	6.1 (8.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2790	10/08/91	0809
02	VSTD020	20PPBSTD	F2791	10/08/91	0902
03	VSTD100	100PPBSTD	F2793	10/08/91	1012
04	VSTD150	150PPBSTD	F2794	10/08/91	1057
05	VSTD200	200PPBSTD	F2795	10/08/91	1132
06	VBLK03	BLANK03	F2798	10/08/91	1409
07	SB-A-08-3	10135-06	F2803	10/08/91	1740

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: F2826 BFB Injection Date: 10/09/91
 Instrument ID: V6 BFB Injection Time: 0921
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	51.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.4 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.0 (96.2)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2827	10/09/91	1028
02	VBLK06	BLANK06	F2828	10/09/91	1116
03	10-4-QA1	10135-09	F2835	10/09/91	1534

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: F2865 BFB Injection Date: 10/10/91
 Instrument ID: V6 BFB Injection Time: 1033
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	45.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.3 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.5 (96.3)1
177	5.0 - 9.0% of mass 176	4.4 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2866	10/10/91	1103
02	VBLK04	BLANK04	F2870	10/10/91	1428
03	SB-B-12-3	10135-08	F2880	10/10/91	2043

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID: F2907 BFB Injection Date: 10/11/91
 Instrument ID: V6 BFB Injection Time: 2053
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	48.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	80.1
175	5.0 - 9.0% of mass 174	6.2 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.1 (98.8)1
177	5.0 - 9.0% of mass 176	6.2 (7.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2909	10/11/91	2151
02	VBLK05	BLANK05	F2910	10/11/91	2250
03	SB-B-12-3RE	10135-08RE	F2919	10/12/91	0523

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-13-3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-01

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 15 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 20

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	29000	U
74-83-9	Bromomethane	29000	U
75-01-4	Vinyl Chloride	29000	U
75-00-3	Chloroethane	29000	U
75-09-2	Methylene Chloride	30000	B
67-64-1	Acetone	29000	U
75-15-0	Carbon Disulfide	14000	U
75-35-4	1,1-Dichloroethene	14000	U
75-34-3	1,1-Dichloroethane	14000	U
540-59-0	1,2-Dichloroethene (total)	14000	U
67-66-3	Chloroform	14000	U
107-06-2	1,2-Dichloroethane	14000	U
78-93-3	2-Butanone	15000	BJ
71-55-6	1,1,1-Trichloroethane	7700	J
56-23-5	Carbon Tetrachloride	14000	U
108-05-4	Vinyl Acetate	29000	U
75-27-4	Bromodichloromethane	14000	U
78-87-5	1,2-Dichloropropane	14000	U
10061-01-5	cis-1,3-Dichloropropene	14000	U
79-01-6	Trichloroethene	3300	J
124-48-1	Dibromochloromethane	14000	U
79-00-5	1,1,2-Trichloroethane	14000	U
71-43-2	Benzene	14000	U
10061-02-6	trans-1,3-Dichloropropene	14000	U
110-75-8	2-Chloroethylvinylether	29000	U
75-25-2	Bromoform	14000	U
108-10-1	4-Methyl-2-Pentanone	29000	U
591-78-6	2-Hexanone	29000	U
127-18-4	Tetrachloroethene	14000	U
79-34-5	1,1,2,2-Tetrachloroethane	14000	U
108-88-3	Toluene	8800	BJ
108-90-7	Chlorobenzene	14000	U
100-41-4	Ethylbenzene	97000	
100-42-5	Styrene	14000	U
1330-20-7	Xylene (total)	570000	

000019

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-13-3

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 10135-01
Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989
Level: (low/med) MED Date Received: 10/05/91
% Moisture: not dec. 15 Date Analyzed: 10/14/91
Column (pack/cap) CAP Dilution Factor: 20

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	21.25	99000	JN
2.	Unknown	22.41	280000	JN
3.	C3-benzene isomer	23.04	24000	JN
4.	Unknown	23.50	35000	JN

NC

←

R-10149112A

7B2781

MCCI₂

2-But

Toluene

JJ 1015911

Sample Name: 1015911
 Method: 1015911
 Injected: 10/14/91 20:38
 Analyst: NORA
 ID File: VOAID1
 Quant List Threshold: 1.00

Units: UG/KG
 Run Factor: 0.4000 ✓
 Surrogate Vol: 10.000

Lf-486

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured (ug)	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	25.00	19.86	79.4	70 121
CS05 D8-Toluene	25.00	22.50	90.0	81 117 ✓
CS10 Bromofluorobenzene (BFB)	25.00	25.79	103	74 121

Target Compounds: VOAID2

Scan #	Quant List UG/L	Sample UG/KG	Concentration	Compound
		BDL	C010	Chloromethane
		BDL	C020	Vinyl Chloride
		BDL	C015	Bromomethane
		BDL	C025	Chloroethane
		BDL	C045	1,1-Dichloroethene
262	1.025	Sing 249+	C035	Acetone
		BDL	C040	Carbon Disulfide
308	2.086	508+	C030	Methylene Chloride
	10.44	25369	C053	Trans-1,2-Dichloroethene
		BDL	C055	cis-1,2-Dichloroethene
		BDL	C050	1,1-Dichloroethane
		BDL	C060	Chloroform
		BDL	C065	1,2-Dichloroethane
471	5.198	12630 JB	C110	2-Butanone
		BDL	C125	Vinyl Acetate
541	2.686	6527 J	C115	1,1,1-Trichloroethane
		BDL	C120	Carbon Tetrachloride
		BDL	C165	Benzene
708	1.147	2787 J	C150	Trichloroethene
		BDL	C140	1,2-Dichloropropane
		BDL	C130	Bromodichloromethane
		BDL	C175	2-Chloroethylvinylether
		BDL	C143	Cis-1,3-Dichloropropen
		BDL	C172	Trans-1,3-Dichloropropen
		BDL	C160	1,1,2-Trichloroethane
		BDL	C155	Dibromochloromethane
		BDL	C180	Bromoform

000021

Scan #	DB	Sample	Compound
951	3.090	BDL	C205 4-Methyl-2-Pentanone
		(7514) JB	C230 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
1317	33.950	(62500)	C240 Ethylbenzene
1349	137.991	335300	CXXX Xylene (p)
1451	58.497	142100	CXXX Xylenes (o)
1451	17.850 Sng	4496	C245 Styrene
		BDL	C225 1,1,2,2-Tetrachloroethan
		BDL	C335 Dichlorobenzene (m)
		BDL	C340 Dichlorobenzene (p)
		BDL	C350 Dichlorobenzene (o)
1451	57.373 198.58	170100 (482549)	C250 Xylene (Total)

Compound	- H.I. Info -		Ion	Mass	Ref	Comp.		
	Found	Lit						
1) *C101	Isobromochloromethane	2.47	2.47	.11	128.0	187511	1.0000	1.00
2) C110	Chloromethane	3.10	0.00	--	53.0	0	.10417	0.00
3) C117	Vinyl Chloride	3.24	0.00	--	62.0	0	.17822	0.00
4) C115	Bromomethane	3.65	0.00	--	94.0	0	1.01170	0.00
5) C127	Chloroethane	3.83	0.00	--	64.0	0	.2299	0.00
6) C145	1,1-Dichloroethene	4.71	4.60	.11	96.0	1299	1.1416	.50
7) C135	Acetone	4.69	4.67	.01	43.0	1645	.4244	1.00
8) C140	Carbon Disulfide	4.94	4.88	.06	76.0	1187	4.8412	.06
9) C130	Methylene Chloride	5.22	5.21	.01	84.0	20799	2.6370	2.09
10) C153	Trans-1,2-Dichloroe	5.60	0.00	--	96.0	0	1.9760	0.00
11) C155	cis-1,2-Dichloroeth	7.08	0.00	--	96.0	0	2.0042	0.00
12) C150	1,1-Dichloroethane	6.19	0.00	--	63.0	0	3.6934	0.00
13) C160	Chloroform	7.61	7.61	.00	83.0	6442	3.5395	.48
14) C165	1,2-Dichloroethane	8.61	0.00	--	62.0	0	2.3048	0.00
15) C110	2-Butanone	7.12	7.12	.00	43.0	21247	1.0812	5.20
16) C115	D4-1,2-Dichloroetha	8.47	8.48	.01	65.0	12408	1.6528	1.99
17) *C118	1,4-Difluorobenzene	9.35	9.36	.02	114.0	783151	1.0000	50.00
18) C125	Vinyl Acetate	6.30	0.00	--	43.0	0	.9271	0.00
19) C115	1,1,1-Trichloroetha	7.95	7.93	.02	97.0	20154	.4290	2.69
20) C120	Carbon tetrachlorid	8.25	7.93	.31	117.0	2840	.4557	.40
21) C165	Benzene	8.61	8.58	.03	78.0	4269	1.2475	.22
22) C150	Trichloroethene	9.89	9.89	.00	130.0	7382	.4109	1.15
23) C140	1,2-Dichloropropane	10.33	10.33	.00	63.0	529	.4179	.08
24) C130	Bromodichloromethan	10.96	0.00	--	83.0	0	.5693	0.00
25) C175	2-Chloroethylvinyle	11.69	0.00	--	63.0	0	.2011	0.00
26) C143	Cis-1,3-Dichloropro	12.01	0.00	--	75.0	0	.5777	0.00
27) C172	Trans-1,3-Dichlorop	13.41	0.00	--	75.0	0	.4328	0.00
28) C160	1,1,2-Trichloroetha	13.86	0.00	--	97.0	0	.2958	0.00
29) C155	Dibromochloromethan	14.89	0.00	--	129.0	0	.4224	0.00
30) C180	Bromoform	19.10	0.00	--	173.0	0	.3017	0.00
31) *C120	D5-Chlorobenzene	16.51	16.54	.04	117.0	531507	1.0000	50.00
32) C105	D8-Toluene	12.66	12.67	.01	98.0	31915	1.3341	2.25
33) C205	4-Methyl-2-Pentanon	12.43	0.00	--	43.0	0	.5703	0.00
34) C230	Toluene	12.83	12.85	.02	92.0	28520	.8678	3.09
35) C210	2-Hexanone	14.63	0.00	--	43.0	0	.3123	0.00
36) C220	Tetrachloroethene	14.25	14.26	.02	164.0	1764	.4102	.40
37) C235	Chlorobenzene	16.63	0.00	--	112.0	0	1.0211	0.00
38) C240	Ethylbenzene	17.04	17.02	.01	106.0	171740	.4759	33.95
38)D C240	Ethylbenzene	17.04	17.40	.36	106.0	868741	.4759	171.73
39)D CXXX	Xylene (p)	17.41	17.02	.39	106.0	171740	.5961	27.10
39) CXXX	Xylene (p)	17.41	17.40	.01	106.0	874382	.5961	137.99
40) CXXX	Xylenes (o)	18.60	18.59	.00	106.0	387686	.6235	58.50
41) C245	Styrene	18.65	18.59	.06	104.0	19423	.9877	1.85
42) C225	1,1,2,2-Tetrachloro	20.84	0.00	--	83.0	0	.8050	0.00
43) C110	Bromofluorobenzene	20.24	20.22	.02	95.0	16754	.6112	2.58
44) C335	Dichlorobenzene (m	23.86	0.00	--	146.0	0	.9182	0.00
45) C340	Dichlorobenzene (p	24.18	0.00	--	146.0	0	.9377	0.00
46) C350	Dichlorobenzene (o	25.41	0.00	--	146.0	0	.9753	0.00

000023

APR 1950	Expense Total	12.00	11.00	11.00	11.00	11.00	11.00	11.00
APR 1950	Expense Total	13.00	11.00	11.00	11.00	11.00	11.00	11.00

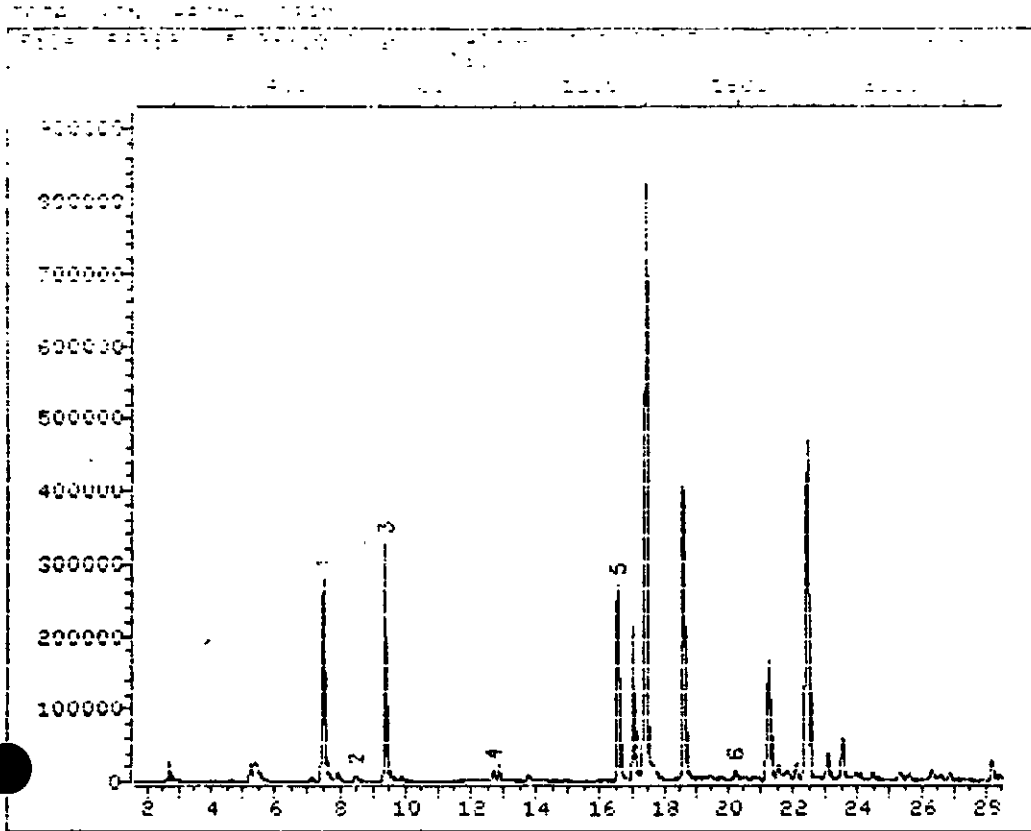
* - LUMP SUM ...
 ** - LUMP SUM ...

Sample No. 1000000000

Sample Name: 1,2,4-Trichlorobenzene 100.0000 Standard: 100.0000

Internal Standard	Sample Area	Std Area	%
1191 Bromochloromethane	139010	100554	188.0
1191 1,4-Dichlorobenzene	87191	488148	179.8
1191 1,3-Dichlorobenzene	821907	821976	169.1

% = (Sample Area/Std Area)*100
* Area outside limits



Data File: 182989::D6 Quant Output File: 182989::U1
 Name: balsam 10135-1 5ulx
 Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12

Id File: U0A102::33
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 911014 14:19

Operator ID: NORA
 Quant Time: 911014 23:08
 Injected at: 911014 22:38

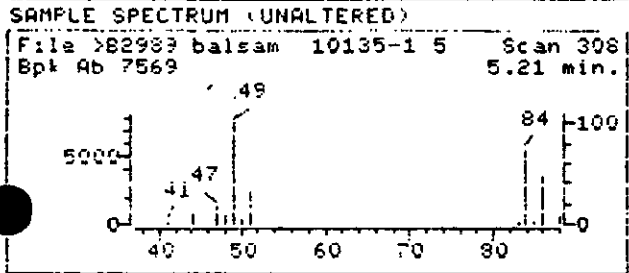
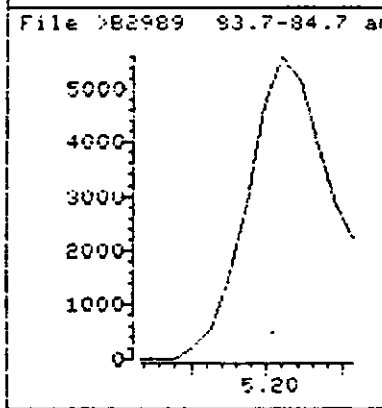
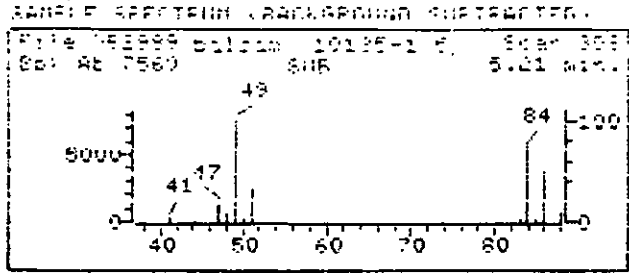
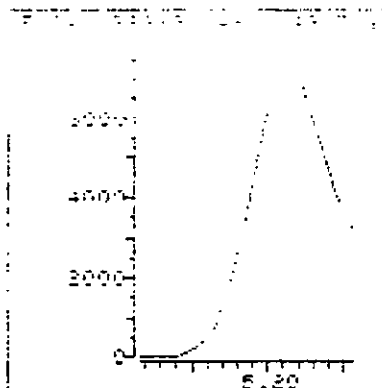
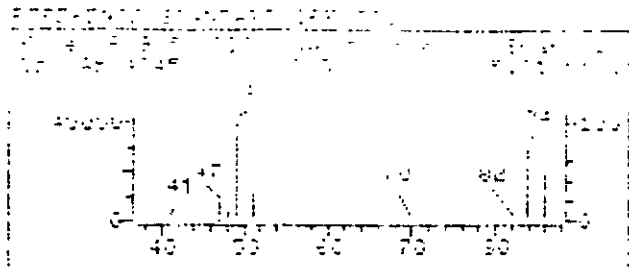
Report File: 0101111
 Date: 01/10/05
 Name: bassam 10100-1 001
 Misc: 02 010 001 101 000-00-B-13-4 4.11g 10/12

ID File: 004102:111
 Title: FSL 004102:111:200nmx.50mm:00524:01:ERL07ENB000
 Last Calibration: 01/01/04 14:19

	Compound	R.T.	Q Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.47	128.0	189010	50.00	UG/L	81
6)	C045 1,1-Dichloroethene	4.60	96.0	1299	.30	UG/L	90
7)	C035 Acetone	4.67	43.0	1645	1.03	UG/L	100
8)	C040 Carbon Disulfide	4.88	76.0	1187	.06	UG/L	100
9)	C030 Methylene Chloride	5.21	84.0	20799	2.09	UG/L	88
13)	C060 Chloroform	7.61	83.0	6442	.48	UG/L	97
15)	C110 2-Butanone	7.12	43.0	21247	5.20	UG/L	96
16)	LS15 04-1,2-Dichloroethane	8.48	65.0	12408	1.99	UG/L	83
17)	*C110 1,4-Difluorobenzene	9.36	114.0	783151	50.00	UG/L	100
18)	C115 1,1,1-Trichloroethane	7.93	97.0	20154	2.69	UG/L	92
20)	C120 Carbon Tetrachloride	7.93	117.0	2840	.40	UG/L	95
21)	C165 Benzene	8.58	78.0	4269	.22	UG/L	100
22)	C150 Trichloroethene	9.89	130.0	7382	1.15	UG/L	90
23)	C140 1,2-Dichloropropane	10.33	73.0	529	.08	UG/L	100
31)	*C120 05-Chlorobenzene	16.54	117.0	531507	50.00	UG/L	100
32)	CS05 08-Toluene	12.67	98.0	31915	2.25	UG/L	97
34)	C230 Toluene	12.85	92.0	28520	3.09	UG/L	96
36)	C220 Tetrachloroethene	14.26	164.0	1764	.40	UG/L	90
38)	C240 Ethylbenzene	17.02	106.0	171740	33.95	UG/L	97
39)	CXXX Xylene (p)	17.40	106.0	874382	137.99	UG/L	95
40)	CXXX Xylenes (o)	18.59	106.0	387686	58.50	UG/L	95
41)	C245 Styrene	18.59	104.0	19423	1.85	UG/L	100
43)	CS10 Bromofluorobenzene (BFB)	20.22	95.0	16754	2.58	UG/L	95
47)	C250 Xylene (Total)	18.59 17.40	106.0	378648 1310618m	57.57 198.58	UG/L	96

* Compound is ISTD

JQ 102591
 198.58 ug/l



Data File: >82989::D6

Quant Output File: >82989::Q1

Name: balsam 10135-1 5ulx

Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12

Quant Time: 911014 23:08

Quant ID File: UDAID2::\$\$

Injected at: 911014 22:38

Last Calibration: 911014 14:19

Compound No: 9

Compound Name: C030 Methylene Chloride

Scan Number: 308

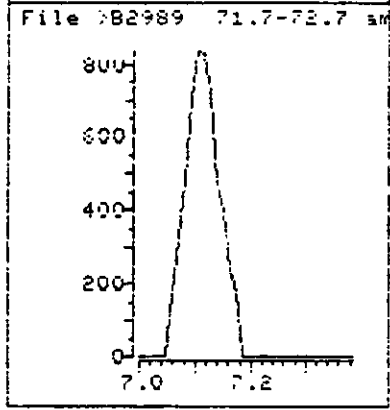
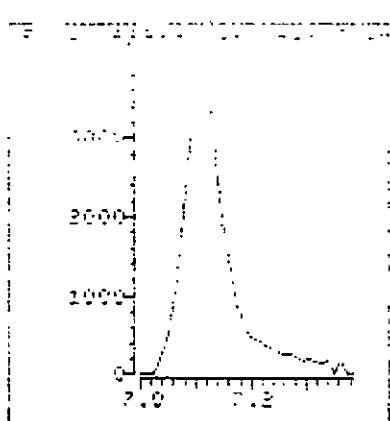
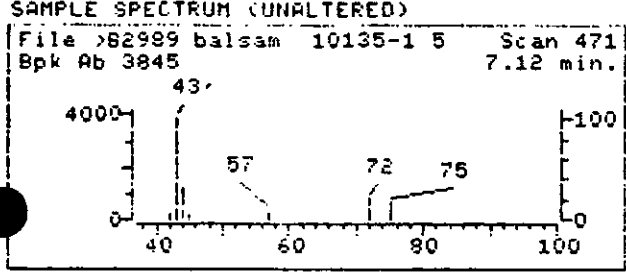
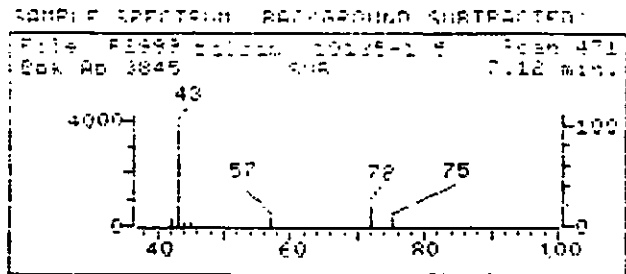
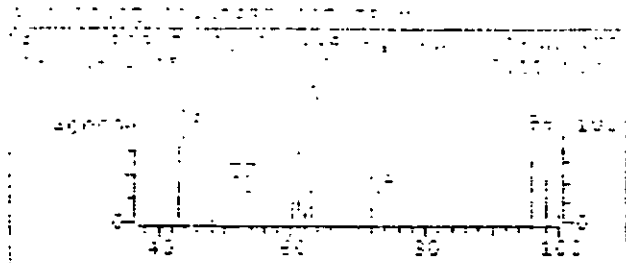
Retention Time: 5.21 min.

Quant Ion: 84.0

Area: 20799

Concentration: 2.09 UG/L

q-value: 88

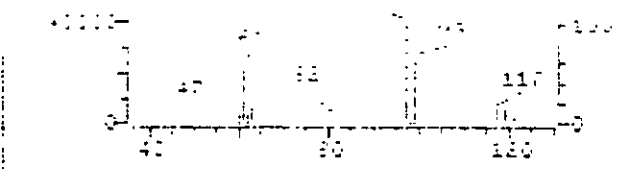


Data File: >B2989::D6
 Name: balsam 10135-1 5ulx
 Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12
 Quant Time: 911014 23:08
 Injected at: 911014 22:38

Quant Output File: >B2989::Q1
 Quant ID File: VDA102::\$\$
 Last Calibration: 911014 14:19

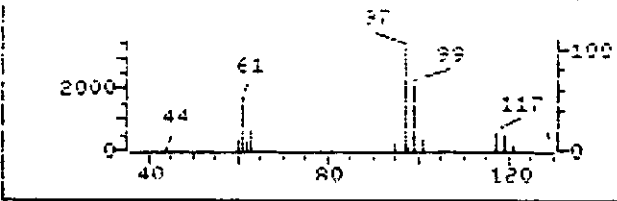
Compound No: 15
 Compound Name: C110 2-Butanone
 Scan Number: 471
 Retention Time: 7.12 min.
 Quant Ion: 43.0
 Area: 21247
 Concentration: 5.20 UG/L
 q-value: 96

820910 1100-00 10135-1 5



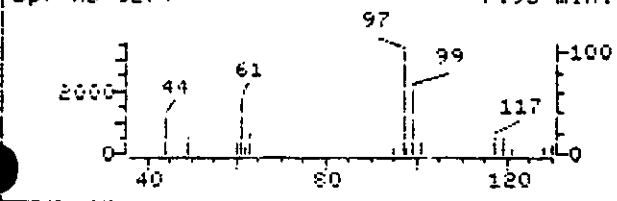
SAMPLE SPECTRUM (PEAKS ANDING SUBTRACTED)

File >B2989 balsam 10135-1 5 Scan 541
Bpk Ab 3274 7.93 min.

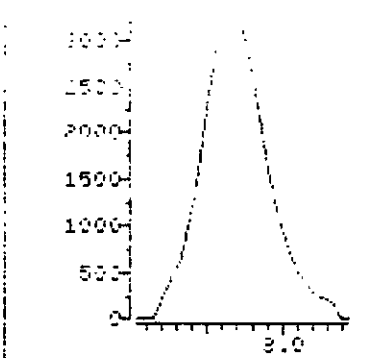


SAMPLE SPECTRUM (UNALTERED)

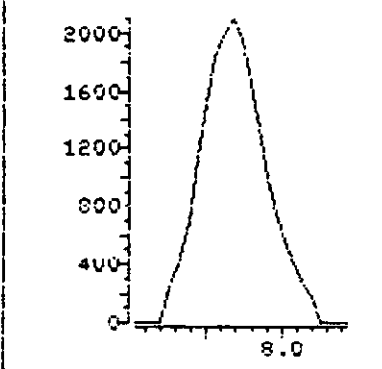
File >B2989 balsam 10135-1 5 Scan 541
Bpk Ab 3274 7.93 min.



File >B2989 98.7-99.7 am



File >B2989 98.7-99.7 am



Data File: >B2989::D6

Quant Output File: ^B2989::U1

Name: balsam 10135-1 5ulx

Misc: v2 c12 5ul 1s/s ucc-sb-b-13-3 4.11g 10/12

Quant Time: 911014 23:08

Quant ID File: VOAID2::\$\$

Injected at: 911014 22:38

Last Calibration: 911014 14:19

Compound No: 19

Compound Name: C115 1,1,1-Trichloroethane

Scan Number: 541

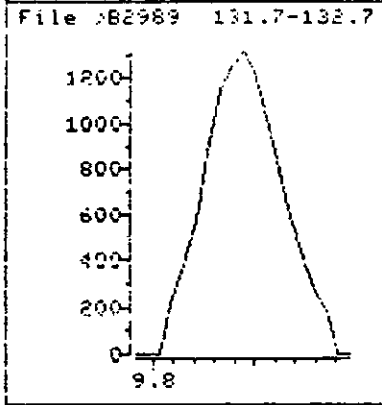
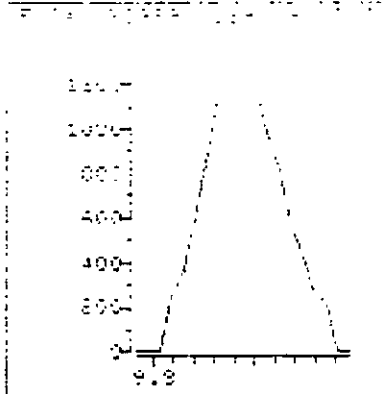
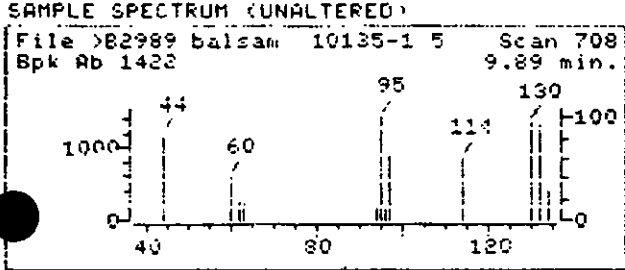
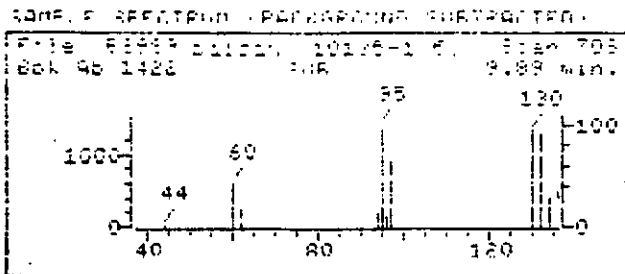
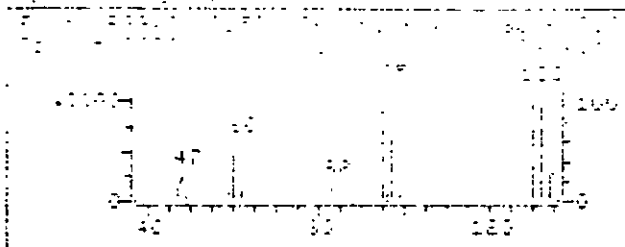
Retention Time: 7.93 min.

Quant Ion: 97.0

Area: 20154

Concentration: 2.69 UG/L

q-value: 92



Data File: >B2989::D6

Quant Output File: >B2989::QT

Name: balsam 10135-1 5ulx

Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12

Quant Time: 911014 23:08

Quant ID File: VQAID2::\$\$

Injected at: 911014 22:38

Last Calibration: 911014 14:19

Compound No: 22

Compound Name: C150 Trichloroethene

Scan Number: 708

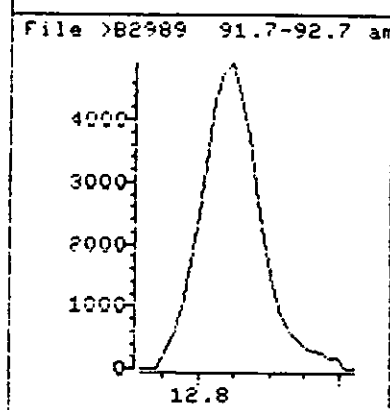
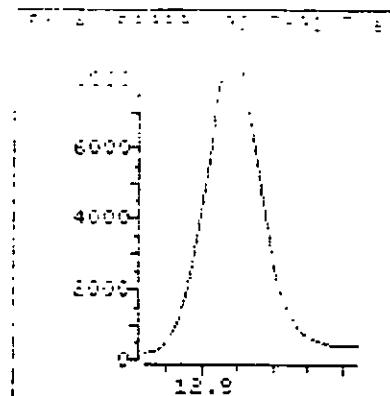
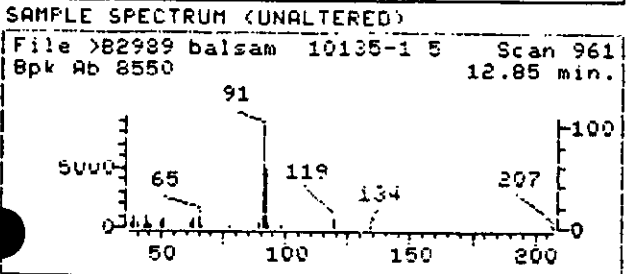
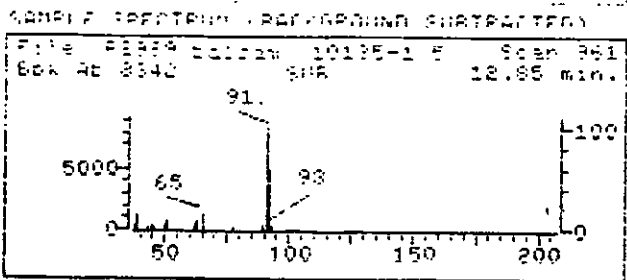
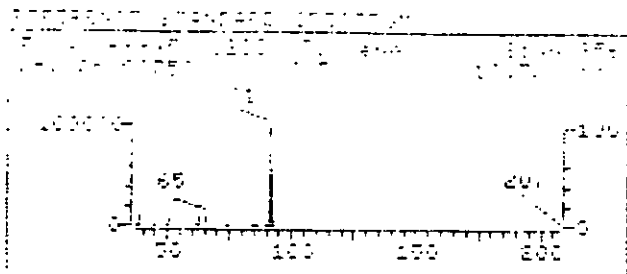
Retention Time: 9.89 min.

Quant Ion: 130.0

Area: 7382

Concentration: 1.15 UG/L

q-value: 98

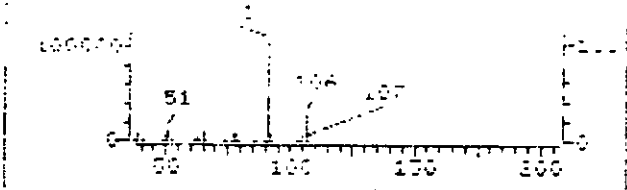


Data File: >B2989::D6
 Name: balsam 10135-1 5ulx
 Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12
 Quant Time: 911014 23:08
 Injected at: 911014 22:38

Quant Output File: >B2989::Q1
 Quant ID File: VQAID2::\$\$
 Last Calibration: 911014 14:19

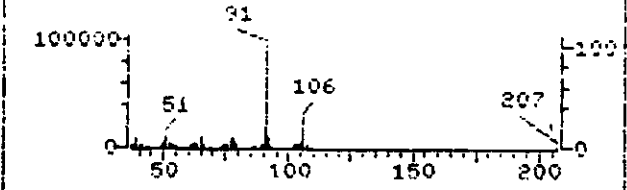
Compound No: 34
 Compound Name: C23U Toluene
 Scan Number: 961
 Retention Time: 12.85 min.
 Quant Ion: 92.0
 Area: 28520
 Concentration: 3.09 UG/L
 q-value: 96

STANDARD ANALYSIS REPORT
 File >B2989 balsam 10135-1 5 Scan 1317
 Bpk Ab 94149 17.02 min.



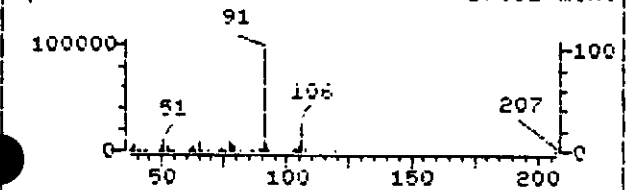
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >B2989 balsam 10135-1 5 Scan 1317
 Bpk Ab 94149 17.02 min.

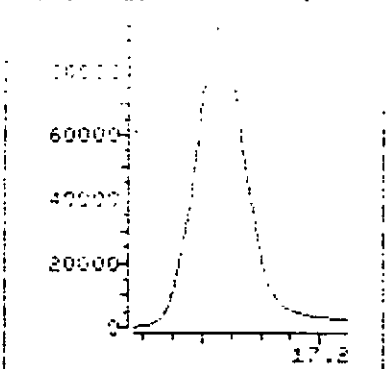


SAMPLE SPECTRUM (UNALTERED)

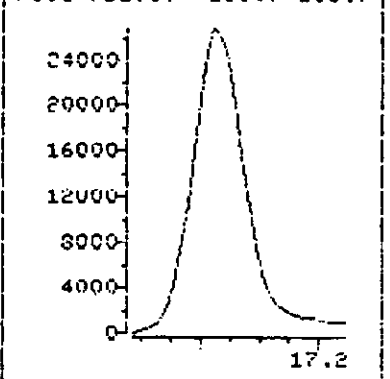
File >B2989 balsam 10135-1 5 Scan 1317
 Bpk Ab 94648 17.02 min.



File >B2989 105.7-106.7

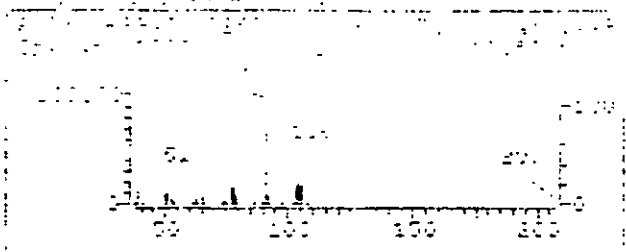


File >B2989 105.7-106.7

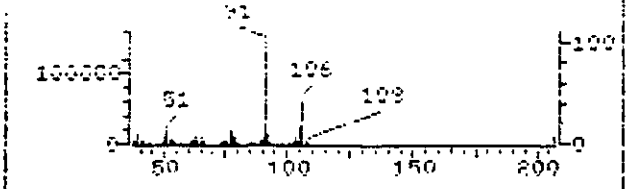


Data File: >B2989::D6 Quant Output File: >B2989::Q1
 Name: balsam 10135-1 5ulx
 Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12
 Quant Time: 911014 23:08 Quant ID File: UOAIU2::\$\$
 Injected at: 911014 22:38 Last Calibration: 911014 14:19

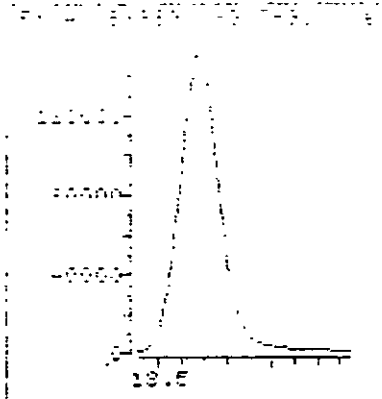
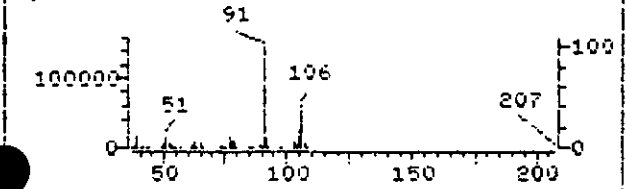
Compound No: 38
 Compound Name: C240 Ethylbenzene
 Scan Number: 1317
 Retention Time: 17.02 min.
 Quant Ion: 106.0
 Area: 171740
 Concentration: 33.95 UG/L
 q-value: 97



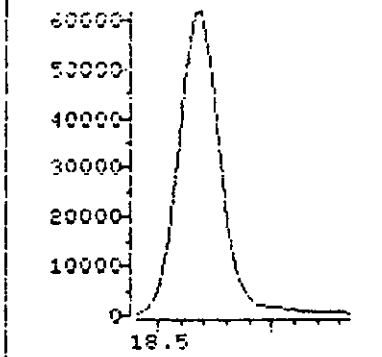
SAMPLE SPECTRUM (ALIGNED AND SUBTRACTED)
 File >B2989 balsam 10135-1 5 Scan 1451
 Bpk Ab 144001 18.59 min.



SAMPLE SPECTRUM (UNALTERED)
 File >B2989 balsam 10135-1 5 Scan 1451
 Bpk Ab 145921 18.59 min.



File >B2989 105.7-106.7



Data File: >B2989:106 Quant Output File: ^B2989:101
 Name: balsam 10135-1 5ulx
 Misc: v2 c12 5ul is/s ucc-sb-b-13-3 4.11g 10/12
 Quant Time: 911014 23:08 Quant ID File: UDAID2:\$\$
 Injected at: 911014 22:38 Last Calibration: 911014 14:19

Compound No: 47
 Compound Name: C250 Xylene (Total)
 Scan Number: 1451
 Retention Time: 18.59 min.
 Quant Ion: 106.0
 Area: 378648
 Concentration: 57.37 UG/L
 q-value: 96

000034

00-02-3	Hexane, diisobutyl-	25000.	5 1570.
105-56-2	2-Octanone	24000.	4 1571.
815-24-7	2-Pentanol	23000.	3 1572.
811-14-3	1-Ethyl-2-methyl-3-pentene	21000.	2 1573.
75-50-3	Methanamine, N,N-dimethyl-	30000.	1 1574.
UNKNOWN			

HSL compound

Compound # 585

25000.00
105.56.2
815.24.7
811.14.3
75.50.3

161591

ST

INVESTMENT STATEMENT

UNIT	DATE	PRICE	AMOUNT	SHARES	PERCENT	AMOUNT	PERCENT
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00
10	11/15/68	15.00	1500.00	100.00	100.00	1500.00	100.00

RIC Internal Standard Report

Date Filed: 8/1/89

Minimum separation of RIC and User Ion peaks: 5.
Minimum RIC peak area as % of est. RIC area: 50.
Maximum RIC peak area as % of est. RIC area: 200.

#	Name	Concentration	Flag		
Q scan	D area	Ratio	RIC scan	RIC area	% Est. RIC
1	CI01	Endoschloromet	50.000 UG/L	Ok	
501.	185310.	7.292	501.	1365695.	95.091
2	CI10	1,4-Difluorobe	50.000 UG/L	Ok	
663.	783151.	2.409	663.	1767606.	93.679
3	CI20	D5-Chlorobenze	50.000 UG/L	Ok	
1276.	531507.	3.457	1276.	1624324.	88.395

Deleting peaks from INT file: VDIR72

Minimum area: 10 % of area of closest Int. Std.

Number of peaks: 11

Number of peaks remaining: 11

Deleting target compounds from INT file: VDIR72

Minimum separation of TIC and target: 5.

Maximum fraction of RIC peak from targets: 40. %

Number of peaks: 11

Number of peaks remaining: 5

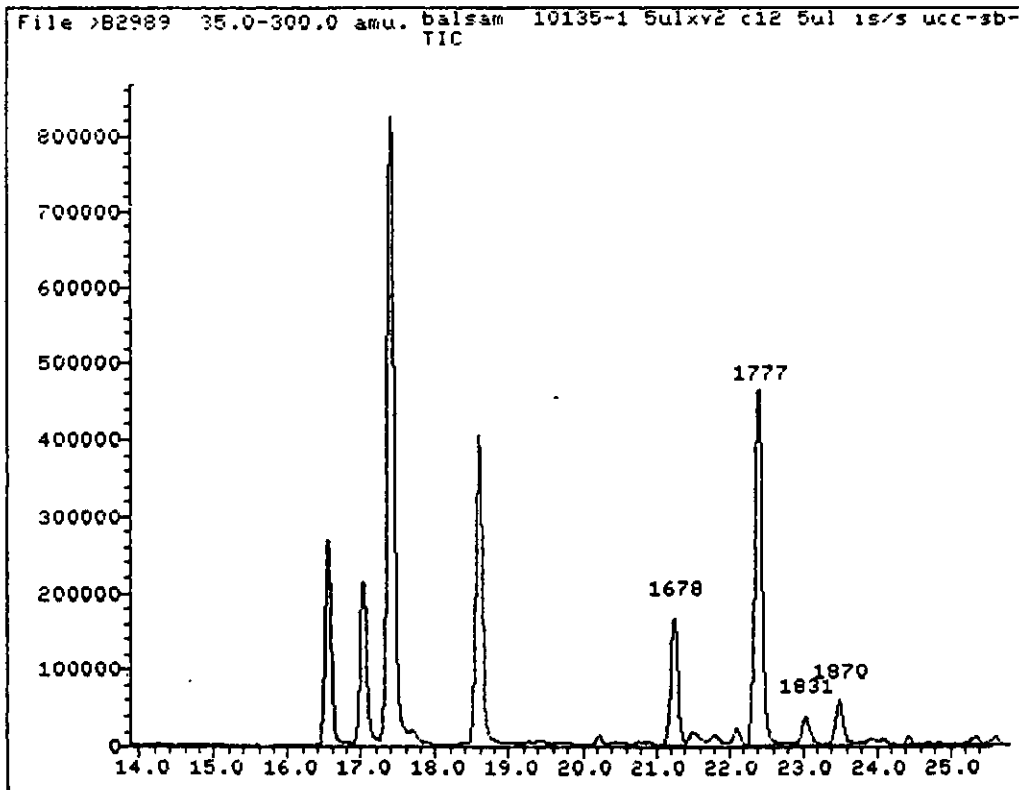
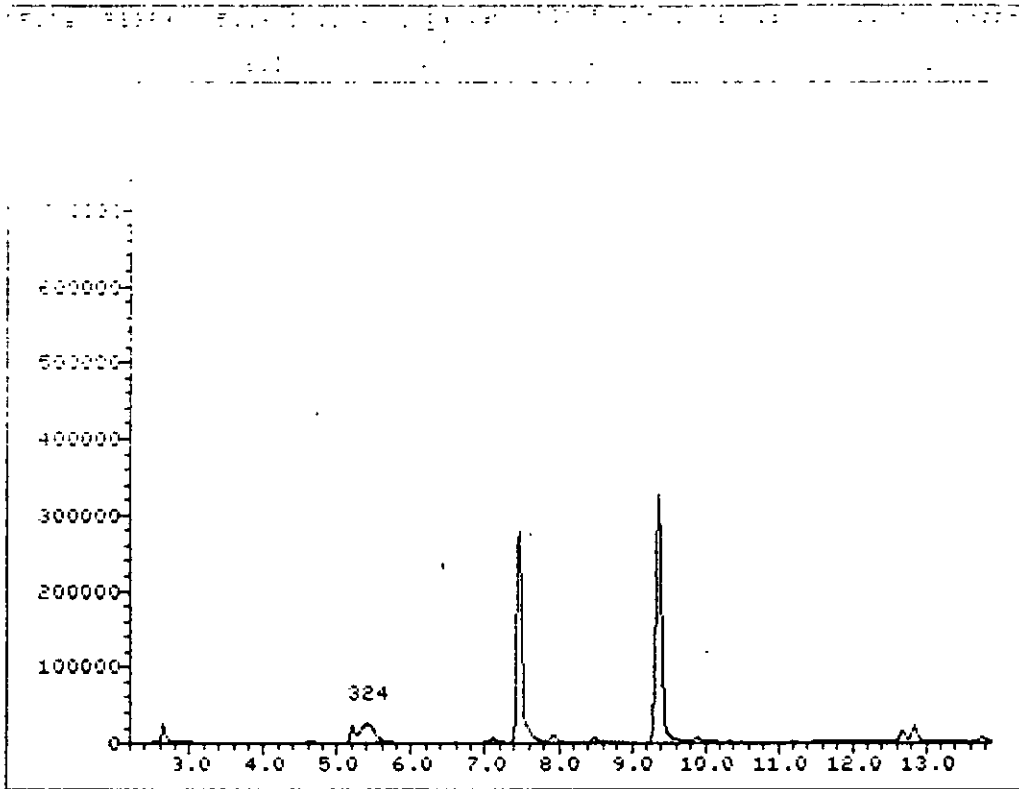
Deleting all but largest peaks from INT file: VDIR72

Maximum number of peaks to keep: 15

Number of peaks: 5

Maximum number of peaks > number of peaks.

000037



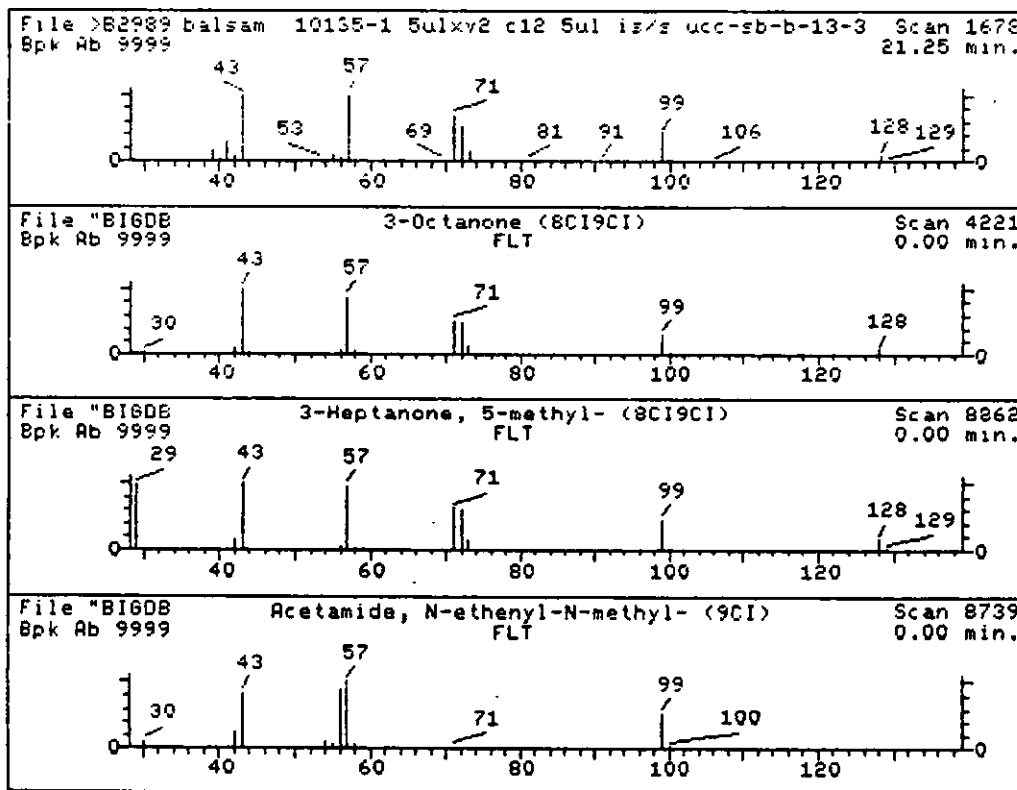
000038

1. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 2. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 3. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 4. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 5. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 6. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3

1. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 2. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 3. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 4. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 5. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3
 6. 10135-1 5ulxy2 c12 5ul iz/s ucc-sb-b-13-3

Sample file: 82989 Spectrum #: 1678
 Search speed: Tilting option: 5 No. of ion ranges searched: 40

	Frob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	106683	4221	"BIGDB	80	19	1	0	97	0	66	77
2.	30*	541855	8862	"BIGDB	33	74	1	0	54	45	8	18
3.	30*	3195786	8739	"BIGDB	27	69	3	0	80	32	12	13
4.	25	56052858	8761	"BIGDB	39	41	2	0	81	45	8	13
5.	25*	5405798	3989	"BIGDB	25	60	3	0	100	42	8	13
6.	25*	6124910	4121	"BIGDB	27	71	3	0	179	45	8	13



unknown
 Jg 101591

000039

711 00000000

1. 3-Pentanone, 2,2,4,4-tetramethyl- (819CI)

2. 4-Heptanone, 2,6-dimethyl- (819CI)

3. 2-Pentene, 1-ethoxy-4-methyl-, (Z)- (9CI)

4. 3-Pentanone, 2,2,4,4-tetramethyl- (819CI)

5. 4-Heptanone, 2,6-dimethyl- (819CI)

6. 2-Pentene, 1-ethoxy-4-methyl-, (Z)- (9CI)

12 1244

12 1244

12 1244

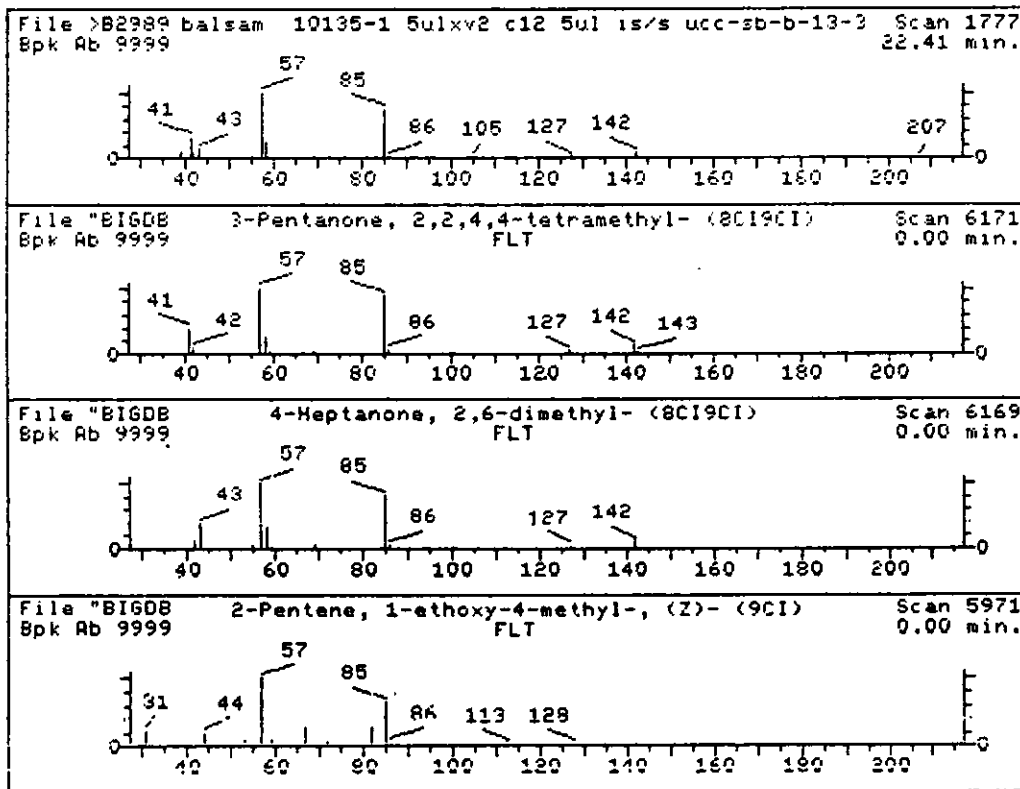
12 1244

12 1244

12 1244

Sample file: B2989 Spectrum #: 1777
Search speed: 1 Tilting option: 3 No. of ion ranges searched: 41

Peak	Ret. Time	CAS #	CGN #	ROOT	R	E	#FLO	TILT	%	CON	C1	R1
1.	89*	815247	6171	"BIGDB	70	23	0	0	63	21	47	88
2.	83*	108838	6169	"BIGDB	48	51	2	0	74	3	57	22
3.	52*	51149758	5971	"BIGDB	25	80	3	0	100	19	20	13
4.	52*	4418615	5	"BIGDB	21	104	2	0	100	19	20	13
5.	37	3494040	6173	"BIGDB	43	52	1	0	51	26	14	14
6.	26*	7492388	6174	"BIGDB	29	63	2	0	60	41	8	14



unknown
Jg 101591

File # B2988

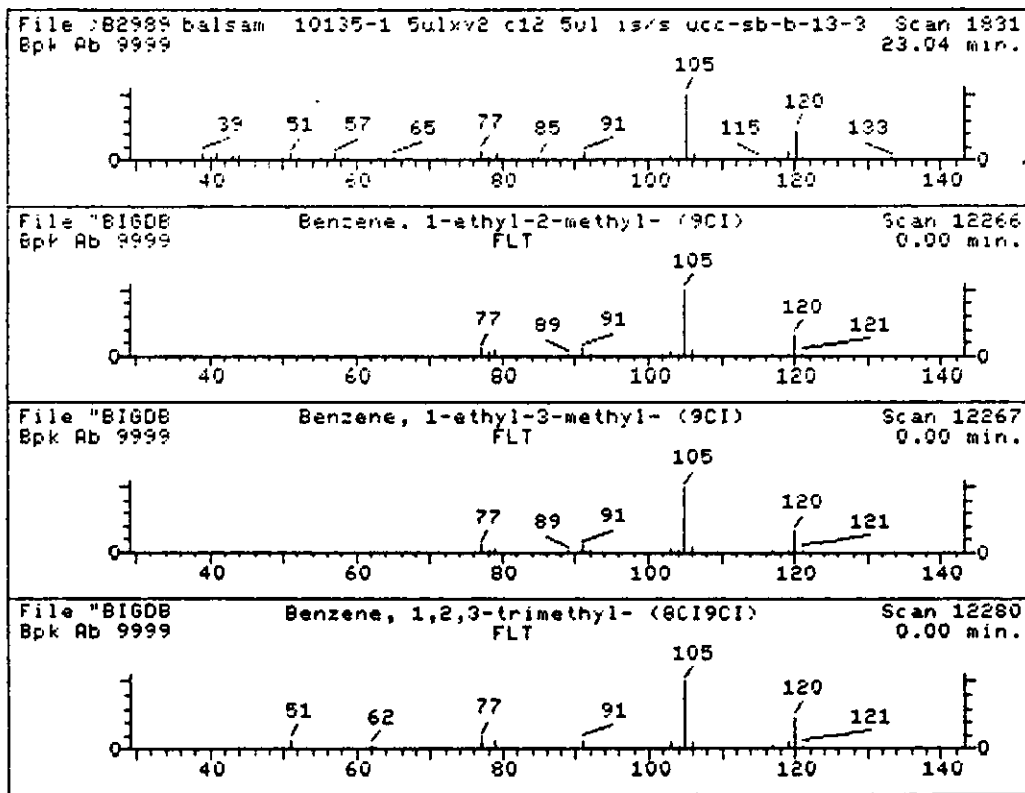
C₃ benzene

1. Benzene
2. Toluene
3. Ethylbenzene
4. Xylene
5. Cumene
6. Styrene

13.211

Sample file: B2988 Spectrum #: 1931
Search speed: 1 Tuning option: 5 No. of ion ranges searched: 40

Peak	Ret. Time	Area	Height	Label	Gain	Filter	Scan	Int.	Off	On	Off
1.	94*	511143	12265	"BIGDB	75	10	0	100	10	68	93
2.	94*	520144	12267	"BIGDB	75	12	1	0	100	2	68
3.	93*	526738	12280	"BIGDB	94	16	1	0	68	5	68
4.	87*	108678	12275	"BIGDB	67	21	2	2	77	4	63
5.	87*	95636	12273	"BIGDB	65	30	2	0	75	5	63
6.	78*	3141024	12286	"BIGDB	40	64	3	0	72	5	55



101591

000041

FILE NUMBER

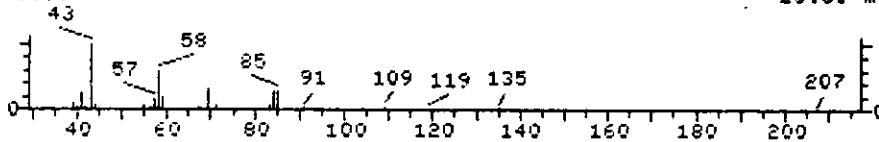
Reference Name: Methanamine, N,N-dimethyl- (9CI)
Reference Number: 1250
Reference Formula: C4H12N2
Reference Molecular Weight: 88.15
Reference CAS Number: 124-40-3

Scan: 1250
Bpk: Ab 9999
Scan: 5913
Bpk: Ab 9999
Scan: 1267
Bpk: Ab 9999

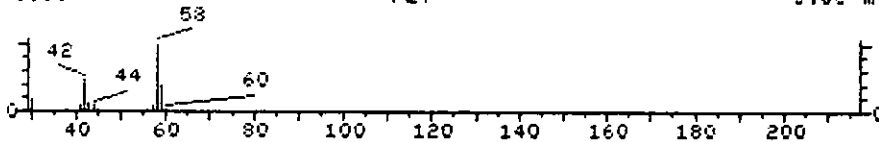
Sample file: 01000 Spectrum #: 1870
Search speed: 1 Tilting option: 5 No. of ion ranges searched: 43

Peak	Chg #	CON #	ROOT	R	DF	#PLG	TILT	N	CON	CL	PLD	
1.	18*	75503	1250	"BIGDB	12	45	2	0	49	48	7	13
2.	15	613995	5913	"BIGDB	43	47	2	0	100	58	3	13
3.	15*	18593334	1267	"BIGDB	26	44	1	0	56	58	3	14
4.	11	1068977	5918	"BIGDB	36	47	1	0	57	64	2	13

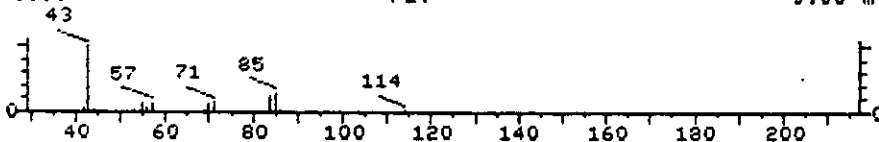
File >82989 balsam 10135-1 5ulxv2 c12 5ul is/s ucc-sb-b-13-3 Scan 1870
Bpk Ab 9999 23.50 min.



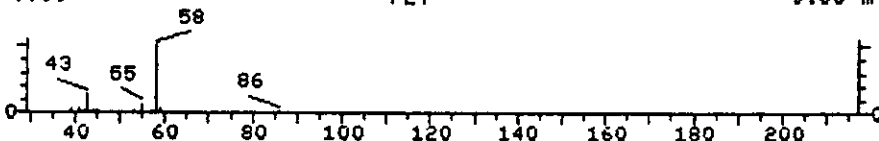
File "BIGDB Methanamine, N,N-dimethyl- (9CI) Scan 1250
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Hexane, 3-ethyl- (8CI9CI) Scan 5913
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Cyclobutane, methoxy- (9CI) Scan 1267
Bpk Ab 9999 FLT 0.00 min.



✓
unknown
JG 101591

000042

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-17-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	1400	U
74-83-9	-----Bromomethane	1400	U
75-01-4	-----Vinyl Chloride	1400	U
75-00-3	-----Chloroethane	1400	U
75-09-2	-----Methylene Chloride	690	U
67-64-1	-----Acetone	1400	U
75-15-0	-----Carbon Disulfide	690	U
75-35-4	-----1,1-Dichloroethene	690	U
75-34-3	-----1,1-Dichloroethane	690	U
540-59-0	-----1,2-Dichloroethene (total)	690	U
67-66-3	-----Chloroform	690	U
107-06-2	-----1,2-Dichloroethane	690	U
78-93-3	-----2-Butanone	1400	U
71-55-6	-----1,1,1-Trichloroethane	690	U
56-23-5	-----Carbon Tetrachloride	690	U
108-05-4	-----Vinyl Acetate	1400	U
75-27-4	-----Bromodichloromethane	690	U
78-87-5	-----1,2-Dichloropropane	690	U
10061-01-5	-----cis-1,3-Dichloropropene	690	U
79-01-6	-----Trichloroethene	690	U
124-48-1	-----Dibromochloromethane	690	U
79-00-5	-----1,1,2-Trichloroethane	690	U
71-43-2	-----Benzene	690	U
10061-02-6	-----trans-1,3-Dichloropropene	690	U
110-75-8	-----2-Chloroethylvinylether	1400	U
75-25-2	-----Bromoform	690	U
108-10-1	-----4-Methyl-2-Pentanone	1400	U
591-78-6	-----2-Hexanone	1400	U
127-18-4	-----Tetrachloroethene	690	U
79-34-5	-----1,1,2,2-Tetrachloroethane	690	U
108-88-3	-----Toluene	690	U
108-90-7	-----Chlorobenzene	690	U
100-41-4	-----Ethylbenzene	690	U
100-42-5	-----Styrene	690	U
1330-20-7	-----Xylene (total)	690	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-17-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-18-5	Decane	20.18	3300	JN
2.	Unknown	21.17	1200	JN
3. 1120-21-4	Undecane	24.30	3000	JN

ReduS
 ced by : W Date: 10/19/91
 Reviewed by: A Date: 10/21/91

Data File: >A3630
 Page: 1

Enseco GC/MS
 Target Compound Data Summary Sheet

Sample: BALSM 10135-4 100ulx
 Misc : U1, CH1 5ul medis id# UCC-SB-B-17-4 4.09G/10ML 101291
 Injected : 10/19/91 14:34 Units: UG/KG
 Analyst: ALANA Run Factor: 122.000
 ID File: UOAI01 Surrogate vol: .500
 Quant list threshold: 1.00

Lf=2445

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug) Spiked	Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	25.00	21.63	86.5	70 121
CS05 D8-Toluene	25.00	23.61	94.4	81 117 ✓
CS10 Bromofluorobenzene (BFB)	25.00	23.58	94.3	74 121

Target Compounds: UOAI01

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
	BDL		C030 Methylene Chloride
	BDL		C053 Trans-1,2-Dichloroethene
	BDL		C055 cis-1,2-Dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
	BDL		C110 2-Butanone
	BDL		C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropen
	BDL		C172 Trans-1,3-Dichloropropen
	BDL		C160 1,1,2-Trichloroethane
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform

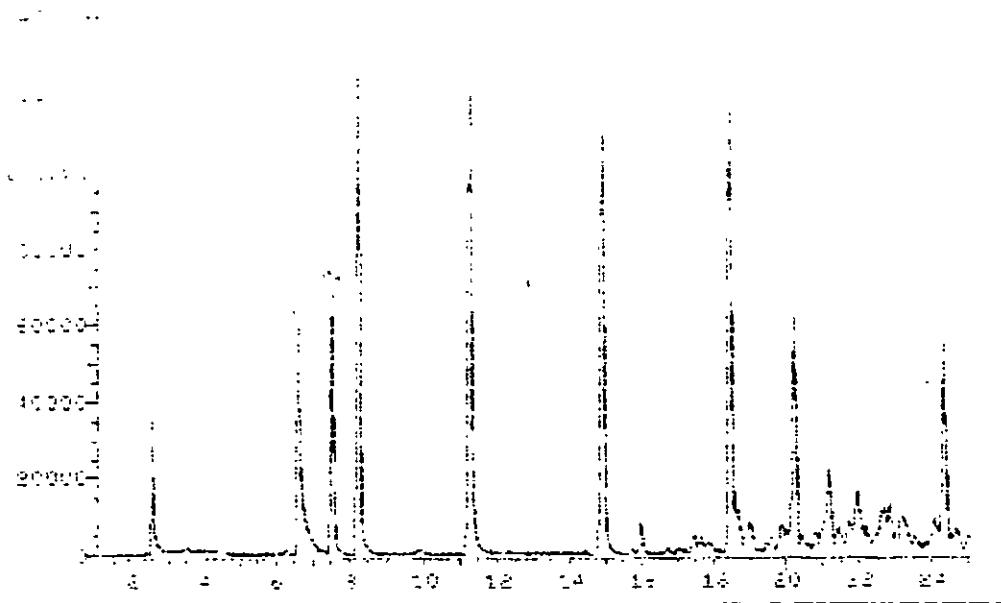
000045

Data file: >A3630 Page: 2
Sample: BALSM 10135-4 100ulx

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL	C205	4-Methyl-2-Pentanone
	BDL	C230	Toluene
	BDL	C210	2-Hexanone
	BDL	C220	Tetrachloroethene
	BDL	C235	Chlorobenzene
	BDL	C240	Ethylbenzene
	BDL	CXXX	Xylene (p)
	BDL	CXXX	Xylene (o)
	BDL	C245	Styrene
	BDL	C225	1,1,2,2-Tetrachloroethan
	BDL	C335	Dichlorobenzene (m)
	BDL	C340	Dichlorobenzene (p)
	BDL	C350	Dichlorobenzene (o)
	BDL	C250	Xylene (Total)

000046

000048



11/10/19 14:34:34 Ident Output File: 11/10/19 14:34:34
 Name: HALL 11/10/19 14:34:34
 File: 01_001 medis 10# 000-5K-8-17-4 4.0-6.1102 1011-1

ID File: 001011:11
 Title: HAL 001A11LES:105mmx.5mm:08624101:EPLOVEN220
 Last Calibration: 11/10/19 12:09

Operator ID: ALANA
 Quant time: 11/10/19 15:00
 Injected at: 11/10/19 14:34



Code	Chemical Name	1970	1971	1972	1973	1974	1975
101	1,2-dichloroethane	6.75	115.16	128.8	130.11	131.1	132
102	1,1,2-trichloroethane	4.75	121.0	134.5	135.12	136.1	137
103	1,1,1-trichloroethane	7.42	131.1	145.1	146.13	147.1	148
104	1,1,2,2-tetrachloroethane	8.02	114.0	128.24	129.10	130.1	131
105	1,1,1,2-tetrachloroethane	14.00	111.10	125.72	126.91	128.1	129
106	1,1,2,2-tetrachloroethane	11.12	108.0	122.87	124.12	125.1	126
107	1,1,1,1-tetrafluoroethane	11.97	104.0	119.1	120.13	121.1	122
108	1,1,1,2-tetrafluoroethane	10.26	106.10	121.1	122.14	123.1	124
109	1,1,2,2-tetrafluoroethane	10.68	106.10	121.1	122.1	123.1	124
110	1,1,1,2-tetrafluoroethane (total)	10.41	106.10	121.1	122.1	123.1	124
111	1,1,1,2-tetrafluoroethane	10.68	106.10	121.1	122.1	123.1	124

Data Reduced by : RL Date: 10/24/91
Data Reviewed by : RL Date: 10-24-91

Data File: >A3630

Enseco TIC Report (page 1)

Sample: BALSM 10135-4 100ulx Run Factor: 1.00
Conditions: V1, CH1 5ul medis id# UCC-SB-B Analyst: ALANA

#	Scan	Q	C	Concentration In Sample (UG/L)	CAS #	Compound
1	97.			11. (1342)	00-00-0	solvent front
2	1334.			24. (2726)	124-18-5	Decane
3	1403.			8. (1086)	10522-76-5	Ethanamine, N-pentylidene UNKNOWN
4	1622.			22. (2684)	<u>1120-21-4</u>	<u>Undecane</u> * Nonane (C11H24)

Data File: >A3630

Enseco TIC Report (page 2)

Concentration = Area(TIC) * Conc.(IS) / Area(IS)

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. As Analyzed (UG/L)
1	0	0	1	2.51	.381	97751.	34088.	11.367
2	83	2	3	20.18	1.356	426402.	62049.	24.082
3	24	42	3	21.17	1.423	157497.	19856.	8.895
4	89	1	3	24.30	1.633	380857.	54328.	21.510

000052

TIC Internal Standard Report

Data File: >A3630

Maximum separation of RIC and Quan ion peaks: 3.
Minimum RIC peak area as % of est. RIC area: 50.
Maximum RIC peak area as % of est. RIC area: 200.

#	Name	Q area	RQratio	Concentration	RIC scan	RIC area	Flag	% Est. RIC
1	CI01	Bromochloromet	6.293	50.000 UG/L	382.	429986.	Ok	87.722
		382.	77886.					
2	CI10	1,4-Difluorobe	2.237	50.000 UG/L	497.	793099.	Ok	96.291
		497.	368243.					
3	CI20	D5-Chlorobenze	3.528	50.000 UG/L	963.	885320.	Ok	82.623
		963.	303698.					

Deleting peaks from INT file: UDIR73

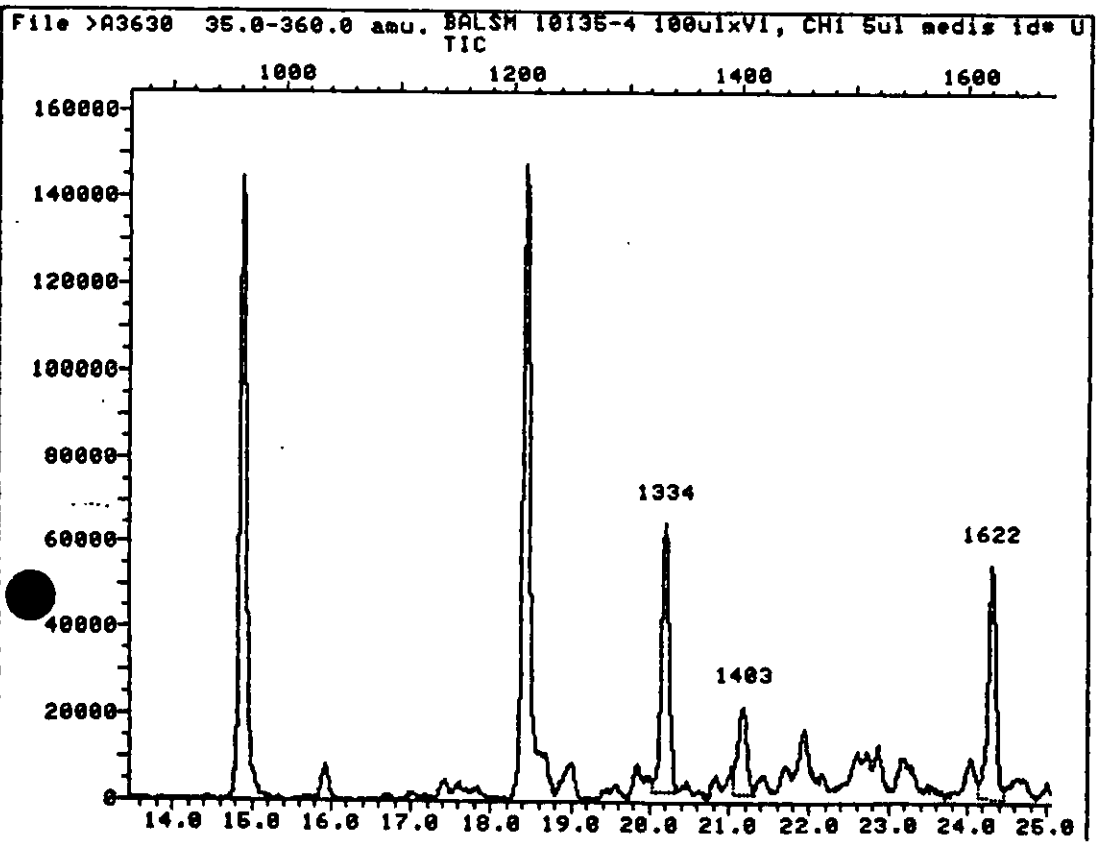
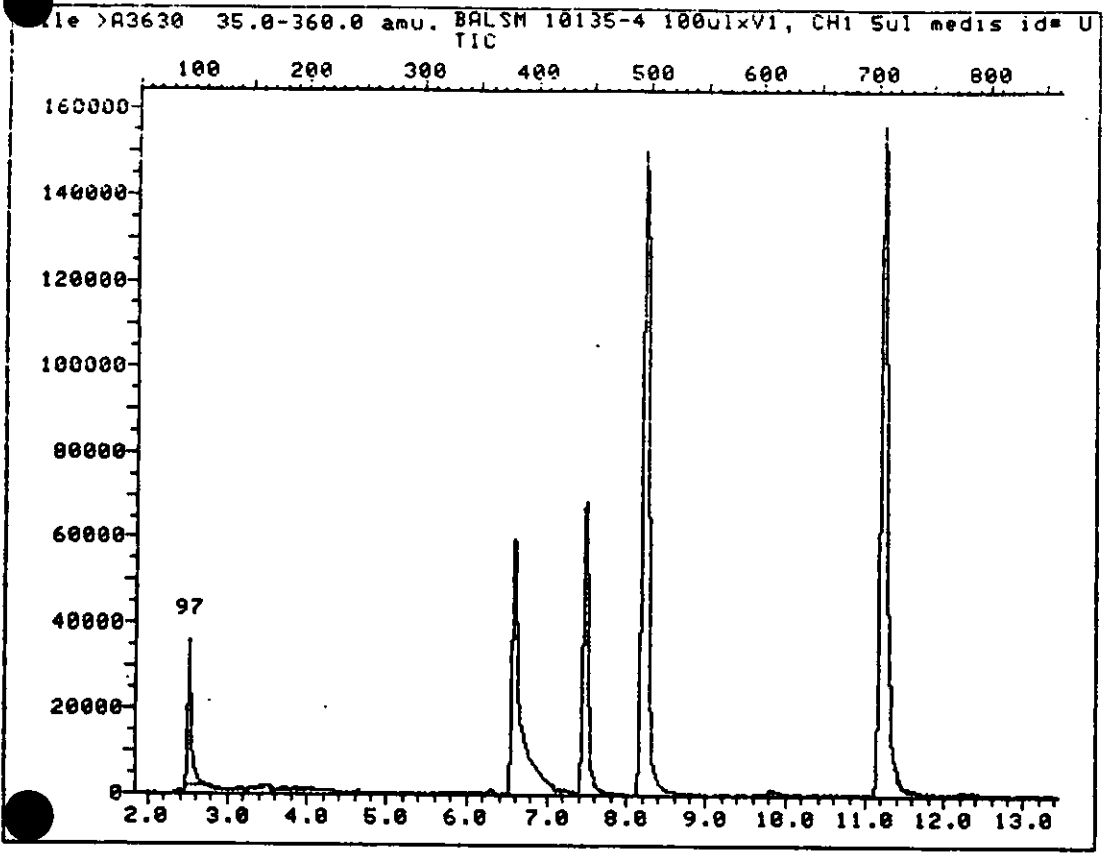
Minimum area: 10 % of area of closest Int. Std.
Number of peaks: 15
Number of peaks remaining: 10

Deleting target compounds from INT file: UDIR73

Minimum separation of TIC and target: 5.
Maximum fraction of RIC peak from targets: 40. %
Number of peaks: 10
Number of peaks remaining: 4

Deleting all but largest peaks from INT file: UDIR73

Maximum number of peaks to keep: 15
Number of peaks: 4
Maximum number of peaks > number of peaks.



000054

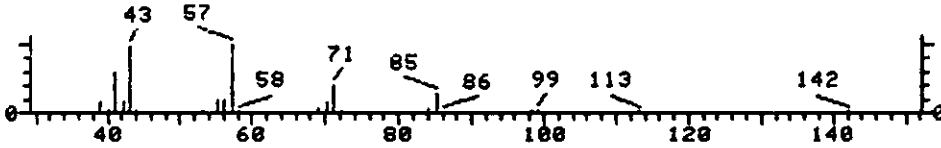
TIC NUMBER:2

- | | |
|-------------------------------------|--------------|
| 1. Decane (8CI9CI) | 142 C10H22 |
| 2. Decane, 2,3,5-trimethyl- (9CI) | 184 C13H28 |
| 3. Hydroxylamine, O-decyl- (8CI9CI) | 173 C10H23NO |
| 4. Undecane, 3-methyl- (8CI9CI) | 170 C12H26 |
| 5. Nonane (8CI9CI) | 128 C9H20 |
| 6. Decane, 2,9-dimethyl- (8CI9CI) | 170 C12H26 |

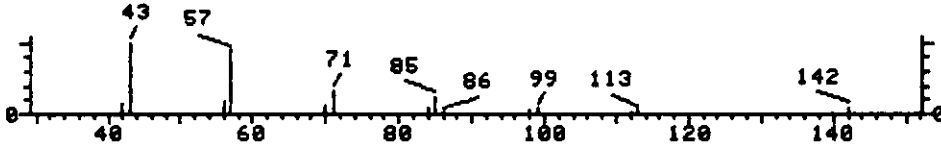
Sample file: >A3630 Spectrum #: 1334
Search speed: 1 Tilting option: S No. of ion ranges searched: 45

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	83	124185	16061	"BIGDB	67	33	2	0	96	2	57	23
2.	70	62238113	6164	"BIGDB	68	35	3	0	69	9	42	15
3.	70	29812791	6056	"BIGDB	57	48	2	0	95	9	42	12
4.	70	1002433	6148	"BIGDB	47	41	2	0	72	7	42	16
5.	67	111842	6110	"BIGDB	62	34	2	0	103	14	34	22
6.	67	1002171	6094	"BIGDB	60	32	2	0	86	12	34	21

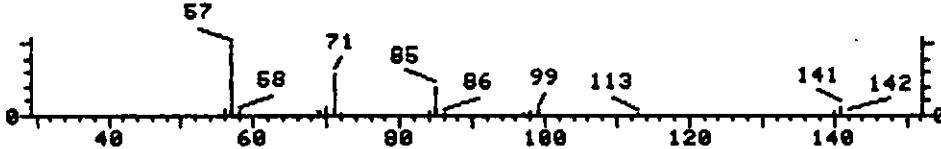
File >A3630 BALSAM 10135-4 100ulxV1, CH1 Sul medis id# UCC-SB- Scan 1334
Bpk Ab 9999 20.10 min.



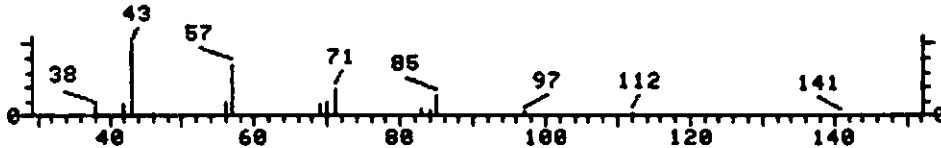
File "BIGDB Decane (8CI9CI) Scan 16061
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Decane, 2,3,5-trimethyl- (9CI) Scan 6164
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Hydroxylamine, O-decyl- (8CI9CI) Scan 6056
Bpk Ab 9999 FLT 0.00 min.



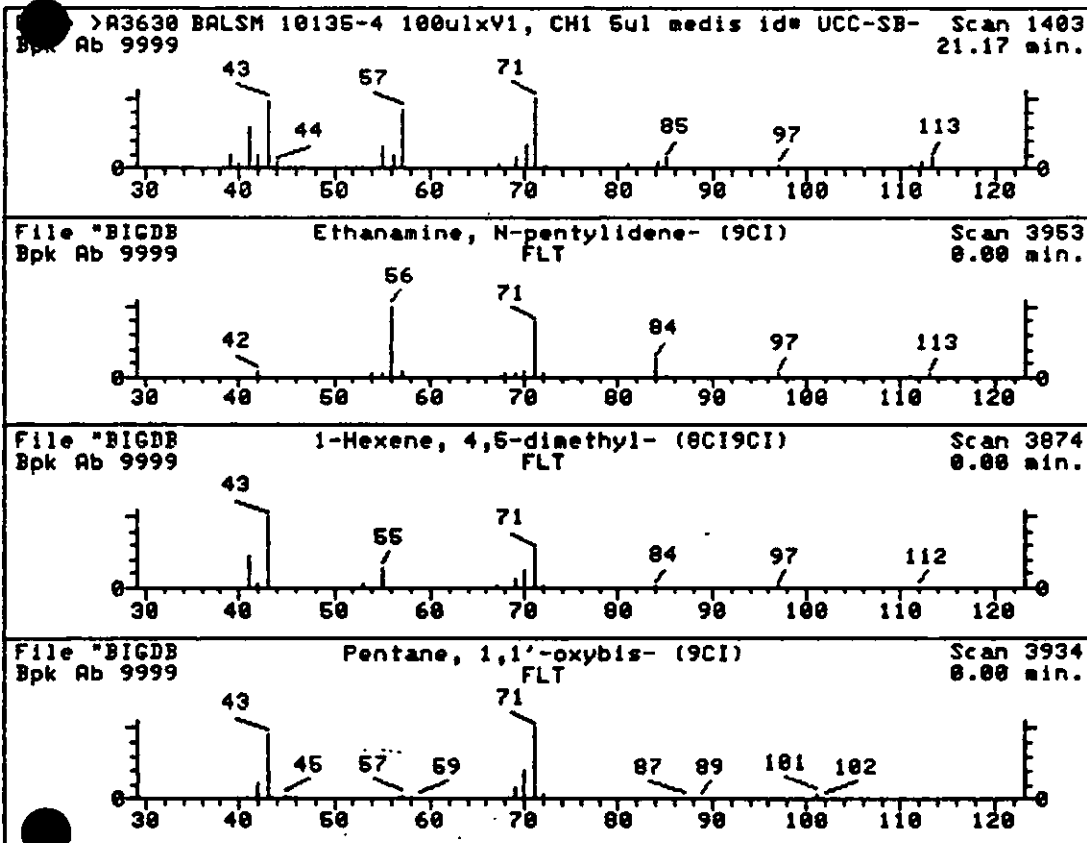
000055

TIC NUMBER:3

- | | |
|---|-------------|
| 1. Ethanamine, N-pentylidene- (9CI) | 113 C7H15N |
| 2. 1-Hexene, 4,5-dimethyl- (8CI9CI) | 112 C8H16 |
| 3. Pentane, 1,1'-oxybis- (9CI) | 158 C10H22O |
| 4. Azetidene, 1-methyl- (8CI9CI) | 71 C4H9N |
| 5. Cyanic acid, ethyl ester (8CI9CI) | 71 C3H5NO |
| 6. 1-Pentene, 2,4,4-trimethyl- (8CI9CI) | 112 C8H16 |

Sample file: >A3630 Spectrum #: 1403
Search speed: 1 Tilting option: S No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	24*	10599765	3953	"BIGDB	24	66	3	0	129	42	8	12
2.	20*	16106595	3874	"BIGDB	42	45	3	0	130	51	5	17
3.	20	693652	3934	"BIGDB	44	48	2	0	81	54	5	12
4.	20*	4923799	3888	"BIGDB	24	77	3	0	181	53	5	12
5.	15*	627485	3867	"BIGDB	24	50	1	0	219	59	3	14
6.	15*	107391	10757	"BIGDB	28	57	2	0	67	57	3	14



000056

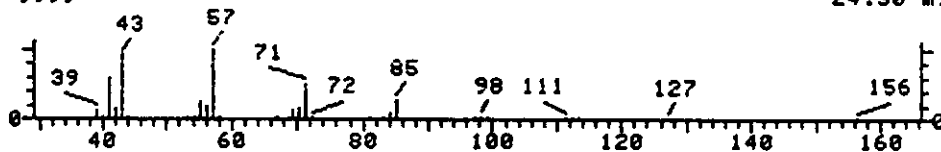
TIC NUMBER: 4

- | | |
|-----------------------------------|------------|
| 1. Undecane (8C19CI) | 156 C11H24 |
| 2. Nonane, 3,7-dimethyl- (8C19CI) | 156 C11H24 |
| 3. Octacosane (8C19CI) | 394 C28H58 |
| 4. Nonacosane (8C19CI) | 408 C29H60 |
| 5. Undecane, 4,6-dimethyl- (8C1) | 184 C13H28 |
| 6. Undecane, 2-methyl- (8C19CI) | 170 C12H26 |

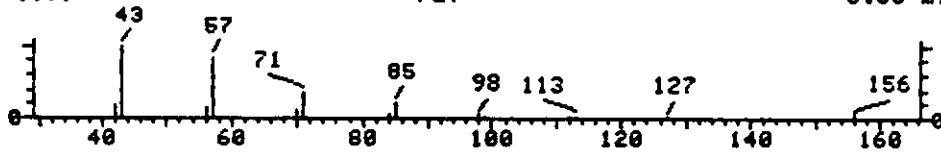
Sample file: >A3630 Spectrum #: 1622
Search speed: 1 Tilting option: S No. of ion ranges searched: 46

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	89*	1120214	6202	"BIGDB	75	22	1	0	99	1	66	73
2.	71*	17302328	6100	"BIGDB	51	35	2	0	74	11	38	33
3.	70	630024	6093	"BIGDB	61	76	2	0	76	8	42	12
4.	70	630035	8905	"BIGDB	61	84	2	0	76	8	42	12
5.	60	17312822	3957	"BIGDB	54	44	2	2	100	14	30	12
6.	52	7045718	6095	"BIGDB	53	41	2	0	90	17	20	17

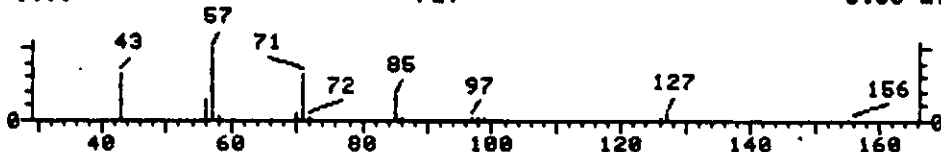
>A3630 BALSM 10135-4 100ulxVI, CHI Sul medis id* UCC-SB- Scan 1622
Bpk Ab 9999 24.30 min.



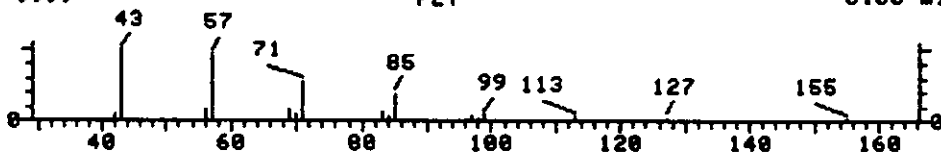
File "BIGDB Undecane (8C19CI) Scan 6202
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Nonane, 3,7-dimethyl- (8C19CI) Scan 6100
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB Octacosane (8C19CI) Scan 6093
Bpk Ab 9999 FLT 0.00 min.



000057

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-08-3

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 10135-06
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803
 Level: (low/med) LOW Date Received: 10/05/91
 % Moisture: not dec. 16 Date Analyzed: 10/08/91
 Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	3	BJ
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-08-3

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 10135-06
Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803
Level: (low/med) LOW Date Received: 10/05/91
% Moisture: not dec. 16 Date Analyzed: 10/08/91
Column (pack/cap) CAP Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

• - Compound is an Internal Standard
 • - Compound is a Spike

8240 SL
 NC

C-070291-CLP
 R-1008911-VGA

Sample ID: 1001
 Date: 10/21/01
 Method: GC/MS
 File: 1001.D
 Acquisition: 10/21/01 10:00:00
 Integration: 10/21/01 10:00:00
 Report: 10/21/01 10:00:00
 Analyst: PEP/L
 Lab: 1001
 Quant List Threshold: 1.00

Units: US MG
 Fun Factor: 1.000 ✓
 Surrogate loss: 1.000

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2548	102	70 121
CS05 D8-Toluene	.2500	.2480	99.2	84 117
CS10 Bromofluorobenzene	.2500	.2367	94.7	59 121

Target Compounds: HAMID6

Scan #	Concentration UG/L	Sample UG/KG	Compound
	BDL		C012 Dichlorodifluoromethane
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C028 Trichlorofluoromethane
	BDL		C045 1,1-Dichloroethene
	BDL		C038 1,1,2-Trichloro-1,2,2-tri
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
262	1.709	1.7	C030 Methylene Chloride
	BDL		C053 Trans-1,2-dichloroethene
	BDL		C055 Cis-1,2-dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
429	2.808	2.8	C110 2-Butanone
	BDL		C125 Vinyl Acetate
500	2.779	2.8	C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
9	2.841	2.8	C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropene
	BDL		C172 Trans-1,3-dichloropropene

000060

Sample # 10 L 10 G 1000000

Sample #	10 L	10 G	1000000
BDL			C150 1,1,2-Trichloroethane
BDL			C155 Dibromochloroethane
BDL			C180 Bromoform
BDL			C205 4-Methyl-2-pentanone
BDL			C230 Toluene
BDL			C210 2-Hexanone
BDL			C220 Tetrachloroethane
BDL			C235 Chlorobenzene
BDL			C240 Ethylbenzene
BDL			CXXX Xylenes (p)
BDL			CXXX Xylenes (o)
BDL			C245 Styrene
BDL			C225 1,1,2,2-Tetrachloroethane
BDL			C335 Dichlorobenzene (m)
BDL			C340 Dichlorobenzene (p)
BDL			C350 Dichlorobenzene (o)
BDL			C250 Xylenes (total)

000061

Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C001	Bromochloromethane	7.03	7.33	.10	128.0	7431	1.0000	50.00
2) C010	Dichlorodifluorometh	2.48	0.00	--	85.0	0	1.0000 ✓	0.00
3) C010	Chloromethane	2.71	0.00	--	83.0	0	1.0000	0.00
4) C020	Vinyl Chloride	2.85	0.00	--	62.0	0	1.0000	0.00
5) C015	Bromomethane	3.27	0.00	--	94.0	0	1.0000	0.00
6) C025	Chloroethane	3.39	0.00	--	64.0	0	1.0017	0.00
7) C028	Trichlorofluorometha	3.70	0.00	--	101.0	0	1.9343	0.00
8) C045	1,1-Dichloroethene	4.35	0.00	--	96.0	0	1.0123	0.00
9) C038	1,1,2-Trichloro-1,2,	4.35	0.00	--	101.0	0	2.3058	0.00
10) C035	Acetone	4.46	0.00	--	43.0	0	1.4339	0.00
11) C040	Carbon Disulfide	4.66	0.00	--	76.0	0	2.9923	0.00
12) C030	Methylene Chloride	5.02	5.04	.02	84.0	3731	1.4571	1.71
13) C053	Trans-1,2-dichloroet	5.38	0.00	--	96.0	0	1.4870	0.00
14) C055	Cis-1,2-dichloroethe	6.92	0.00	--	96.0	0	1.7015	0.00
15) C050	1,1-Dichloroethane	6.01	0.00	--	63.0	0	2.8582	0.00
16) C060	Chloroform	7.48	0.00	--	83.0	0	3.1850	0.00
17) C065	1,2-Dichloroethane	8.52	0.00	--	62.0	0	2.1457	0.00
18) C110	2-Butanone	6.98	6.98	.01	72.0	1726	1.3151	2.81
19) C015	04-1,2-dichloroethan	8.38	8.38	.01	65.0	131022	1.7156	50.00
20) *C110	1,4-Difluorobenzene	9.12	9.23	.11	114.0	376794	1.0000	50.00
21) C125	Vinyl Acetate	6.07	0.00	--	43.0	0	1.9307	0.00
22) C115	1,1,1-Trichloroethan	7.79	7.81	.02	97.0	11160	1.5330	2.78
23) C120	Carbon Tetrachloride	8.08	0.00	--	117.0	0	1.4382	0.00
24) C165	Benzene	8.47	0.00	--	78.0	0	1.9528	0.00
25) C150	Trichloroethene	9.76	9.78	.02	130.0	8275	1.3865	2.84
26) C140	1,2-Dichloropropane	10.24	0.00	--	63.0	0	1.4025	0.00
27) C130	Bromodichloromethane	10.86	0.00	--	83.0	0	1.6435	0.00
28) C175	2-Chloroethylvinylet	11.60	0.00	--	63.0	0	1.2689	0.00
29) C143	Cis-1,3-Dichloroprop	11.92	0.00	--	75.0	0	1.5928	0.00
30) C172	Trans-1,3-dichloropr	13.35	0.00	--	75.0	0	1.5155	0.00
31) C160	1,1,2-Trichloroethan	13.81	0.00	--	97.0	0	1.3815	0.00
32) C155	Dibromochloromethane	14.86	0.00	--	129.0	0	1.5619	0.00
33) C180	Bromoform	19.11	0.00	--	173.0	0	1.4211	0.00
34) *C120	05-Chlorobenzene	16.30	16.44	.14	117.0	295765	1.0000	50.00
35) C005	08-Toluene	12.53	12.55	.02	98.0	368147	1.2547	49.60
35) D C005	08-Toluene	12.53	12.88	.35	98.0	1339	1.2547	.18
36) C205	4-Methyl-2-pentanone	12.30	0.00	--	43.0	0	1.9161	0.00
37) C230	Toluene	12.70	0.00	--	92.0	0	1.8255	0.00
38) C210	2-Hexanone	14.54	0.00	--	43.0	0	1.6983	0.00
39) C220	Tetrachloroethene	14.12	0.00	--	164.0	0	1.4264	0.00
40) C235	Chlorobenzene	16.52	0.00	--	112.0	0	1.0439	0.00
41) C240	Ethylbenzene	16.91	17.25	.33	106.0	1898	1.4965	.65
42) CXXX	Xylenes (p)	17.29	17.25	.04	106.0	1898	1.6578	.49
43) CXXX	Xylenes (o)	18.48	0.00	--	106.0	0	1.6174	0.00
44) C245	Styrene	18.54	0.00	--	104.0	0	1.0869	0.00
45) C225	1,1,2,2-Tetrachloroe	20.74	0.00	--	83.0	0	1.0059	0.00
46) C010	Bromofluorobenzene	20.12	20.06	.06	95.0	211562	1.7553	47.35
47) C335	Dichlorobenzene (m)	23.73	0.00	--	146.0	0	1.9100	0.00
48) C340	Dichlorobenzene (p)	24.06	0.00	--	146.0	0	1.9610	0.00

000062

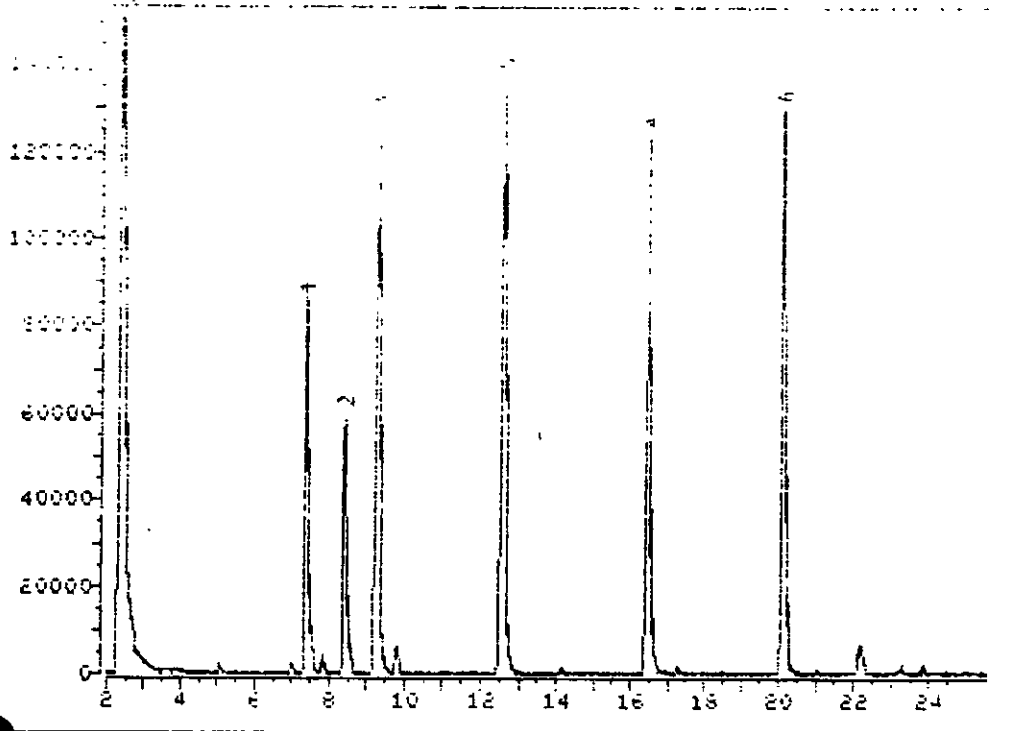
Chromatogram Analysis

Sample Name: [Illegible]

Retention Time (min)	Sample Area	Std Area	%
1101	72481	91542	81.9
1110	378774	11917	3.2
1120	298165	176100	16.9

% = (Sample Area / Std Area) * 100
* Area outside limits

10135-6



100851

Data File: ^F2803::D6 Quant Output File: ^F2803::D7
Name: BALSAM ~~10126-5~~ 5.01G 10135-6 Instrument ID: U6
Misc: U6, CH#13, 5UL IS/S, UCC-SB-A-08-3

Id File: HAMID6::MT
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCD/ENSECO
Last Calibration: 910408 11:20 Last Qcal Time: 911008 08:09

Operator ID: KERYLYNN
Quant Time : 911008 18:07
Injected at: 911008 17:40

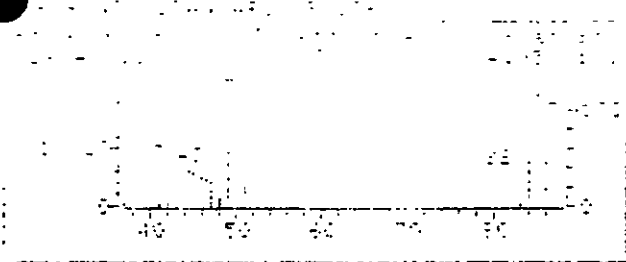
000064

Sample Name:
 Sample No:
 Date:
 10135-6 (3)
 Dilution Factor:
 Instrument ID:
 Misc: Vol. CH#17, SOL 15.8, UCC-SE-A-08-3 100891

Method: H40101.MF
 Title: H40101.MF
 Last Calibration: 910408 11:20
 Last Qual Time: 911008 08:09

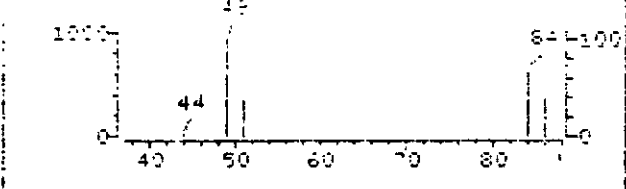
Compound	R.T.	Q ion	Area	Conc	Units	a
11) *C101 Bromochloromethane	7.33	128.0	74931	50.00	UG/L	85
12) C030 Methylene Chloride	5.04	84.0	3731	1.71	UG/L	95
18) C110 2-Butanone	6.98	72.0	1326	2.81	UG/L	92
19) C515 O4-1,2-dichloroethane	8.38	65.0	131022	50.96	UG/L	87
20) *C110 1,4-Difluorobenzene	9.23	114.0	376794	50.00	UG/L	100
22) C115 1,1,1-Trichloroethane	7.81	97.0	11160	2.78	UG/L	82
25) C150 Trichloroethene	9.78	130.0	8275	2.84	UG/L	89
34) *C120 O5-Chlorobenzene	16.44	117.0	295765	50.00	UG/L	100
35) C505 O8-Toluene	12.55	98.0	368147	49.60	UG/L	96
C240 Ethylbenzene	17.25	106.0	1898	.646	UG/L	63
CXXX Xylenes (p)	17.25	106.0	1898	.438	UG/L	90
46) C510 Bromofluorobenzene	20.06	95.0	211562	47.35	UG/L	70

* Compound is ISTD



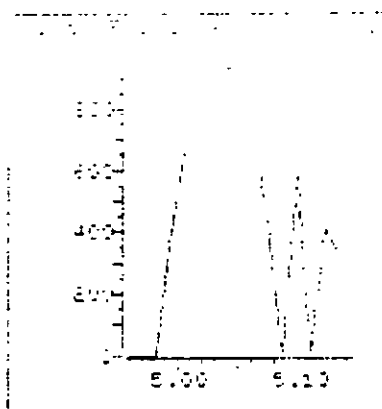
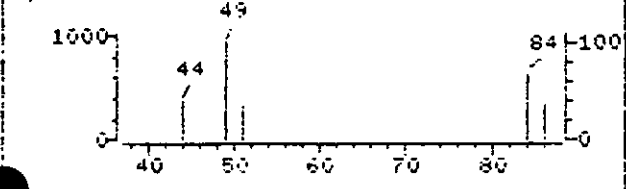
SAMPLE SPECTRUM (UNALTERED)

File : F2803 BALSAM 10126-5 5.04 min. Scan 262
 Bpk At 930.

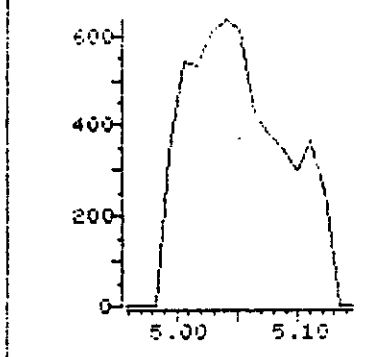


SAMPLE SPECTRUM (UNALTERED)

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 Bpk At 930.



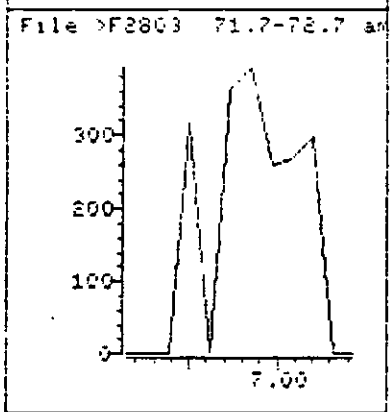
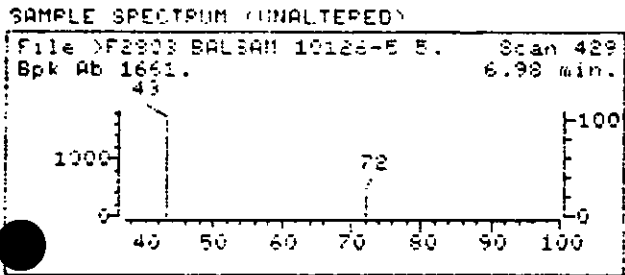
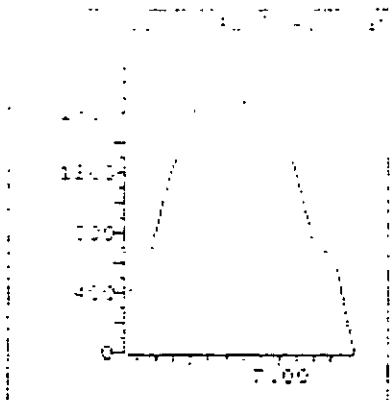
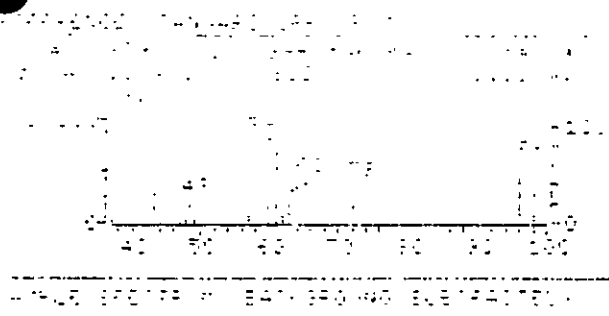
File : F2803 83.7-94.7 am



③ 101351

Data File: F2803::Da 10135-6 Quant Output File: F2803::D7
 Name: BALSAM 10126-5-5.016 Instrument ID: U6
 Misc: U6, CH#13, SUL IS/S, UDC-SB-A-08-3
 Quant Time: 911008 18:07 Quant ID File: HAMID6::MT
 Injected at: 911008 17:40 Last Calibration: 910408 11:20
 Last Qcal Time: 911008 08:09

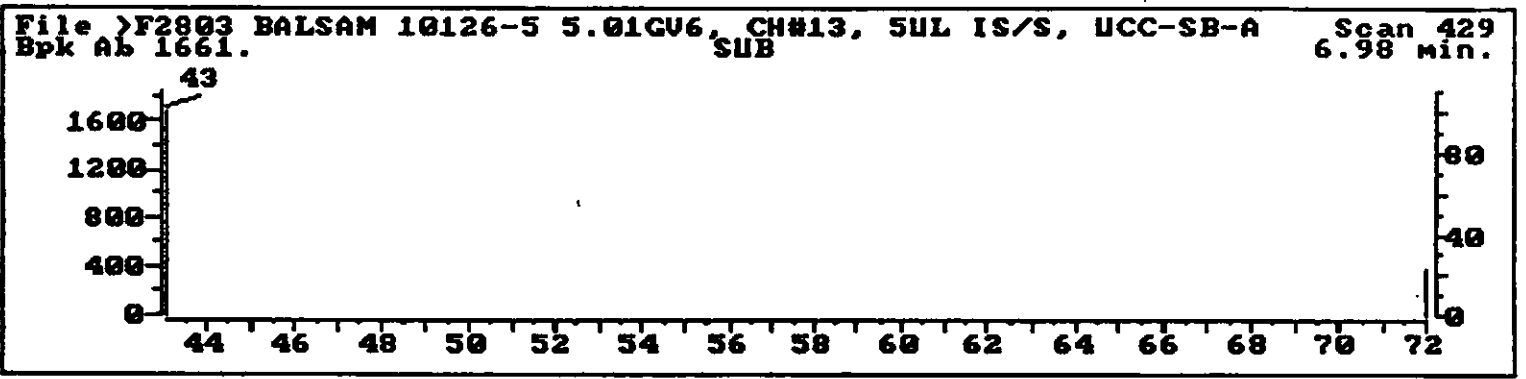
Compound No : 12
 Compound Name : C030 Methylene Chloride
 Scan Number : 262
 Retention Time: 5.04 min.
 Quant Ion : 84.0
 Area : 3731
 Concentration : 1.71 UG/L
 q-value : 95 ✓



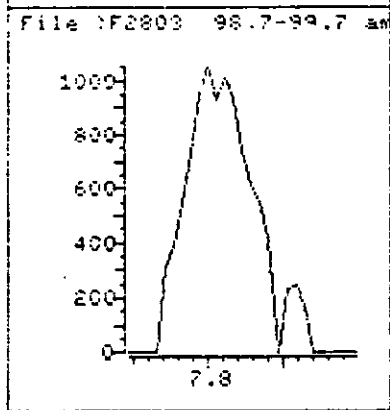
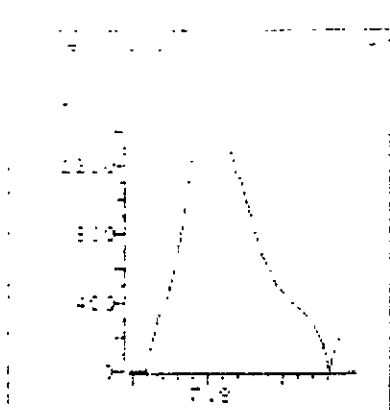
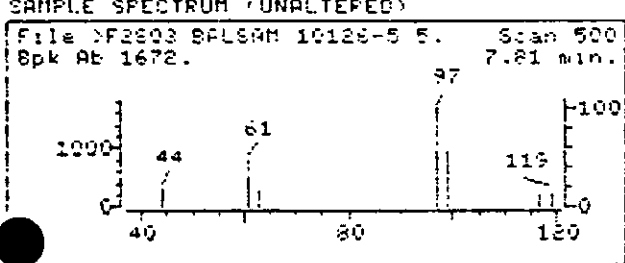
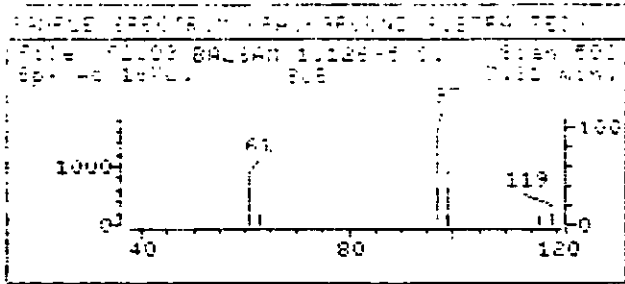
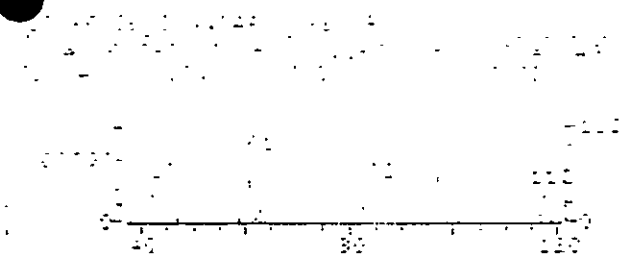
Data File: >F2803::D6 10135-6 *(2) DU 100821* Quant Output File: ^F2803::D7
 Name: BALSAM ~~10126-5~~ 5.01G Instrument ID: U6
 Misc: U6, CH#13, 5UL IS/S, UCC-SB-A-08-3
 Quant Time: 911008 18:07 Quant ID File: HAMID6::MT
 Injected at: 911008 17:40 Last Calibration: 910408 11:20
 Last Qcal Time: 911008 08:09

Compound No : 18
 Compound Name : C110 2-Butanone
 Scan Number : 429
 Retention Time: 6.98 min.
 Quant Ion : 72.0
 Area : 1326
 Concentration : 2.81 UG/L
 q-value : 92 ✓

Background subtracted



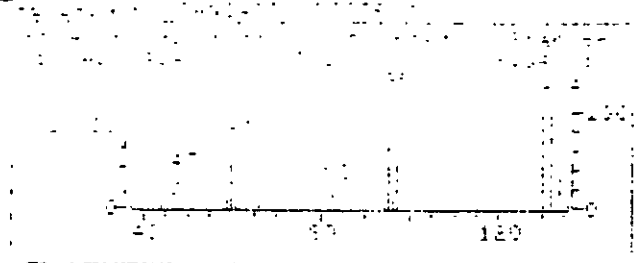
000068



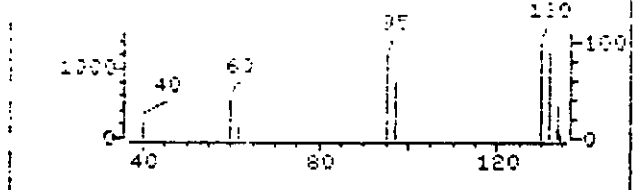
③ 12/00851

Data File: >F2803::06 10135-6 Quant Output File: ^F2803::07
 Name: BALSAM ~~10126-5~~ 5.016 Instrument ID: U6
 Misc: U6, CH#13, 5UL IS/S, UCC-SB-A-08-3
 Quant Time: 911008 18:07 Quant ID File: HAMID6::MT
 Injected at: 911008 17:40 Last Calibration: 910408 11:20
 Last Qcal Time: 911008 08:09 .

Compound No : 22
 Compound Name : C115 1,1,1-Trichloroethane
 Scan Number : 500
 Retention Time: 7.81 min.
 Quant Ion : 97.0
 Area : 11160
 Concentration : 2.78 UG/L
 q-value : 82 ✓

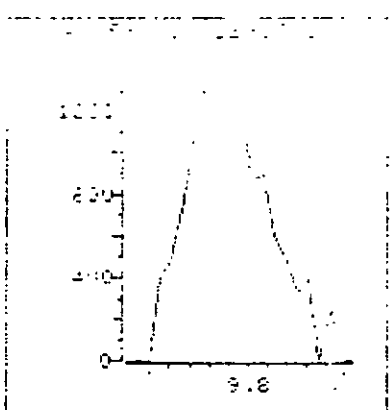
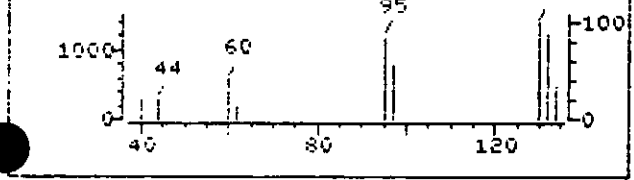


FILE F2803 BALSAM 10126-5 5.01G Scan 669
Bpk Ab 1396. 9.78 min.

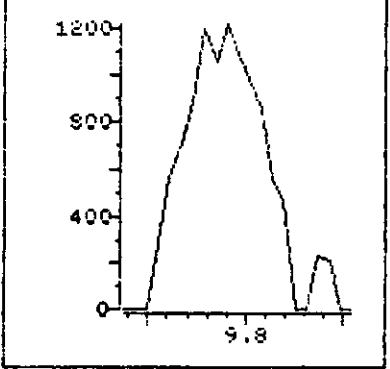


SAMPLE SPECTRUM (UNALTERED)

File ^F2803 BALSAM 10126-5 5. Scan 669
Bpk Ab 1396. 9.78 min.



File ^F2803 131.7-132.7



Data File: ^F2803::D6 *10135-6* *100891* Quant Output File: ^F2803::D7
 Name: BALSAM ~~10126-5~~ 5.01G Instrument ID: U6
 Misc: U6, CH#13, 5UL IS/S, UCC-SB-A-08-3
 Quant Time: 911008 18:07 Quant ID File: HAMID6::MT
 Injected at: 911008 17:40 Last Calibration: 910408 11:20
 Last Qual Time: 911008 08:09

Compound No : 25
 Compound Name : C150 Trichloroethene
 Scan Number : 669
 Retention Time: 9.78 min.
 Quant Ion : 130.0
 Area : 8275
 Concentration : 2.84 UG/L
 q-value : 89

100891

Date: 12/22

10135-6

100891

Sample: 10135-6
Conditions: 100891

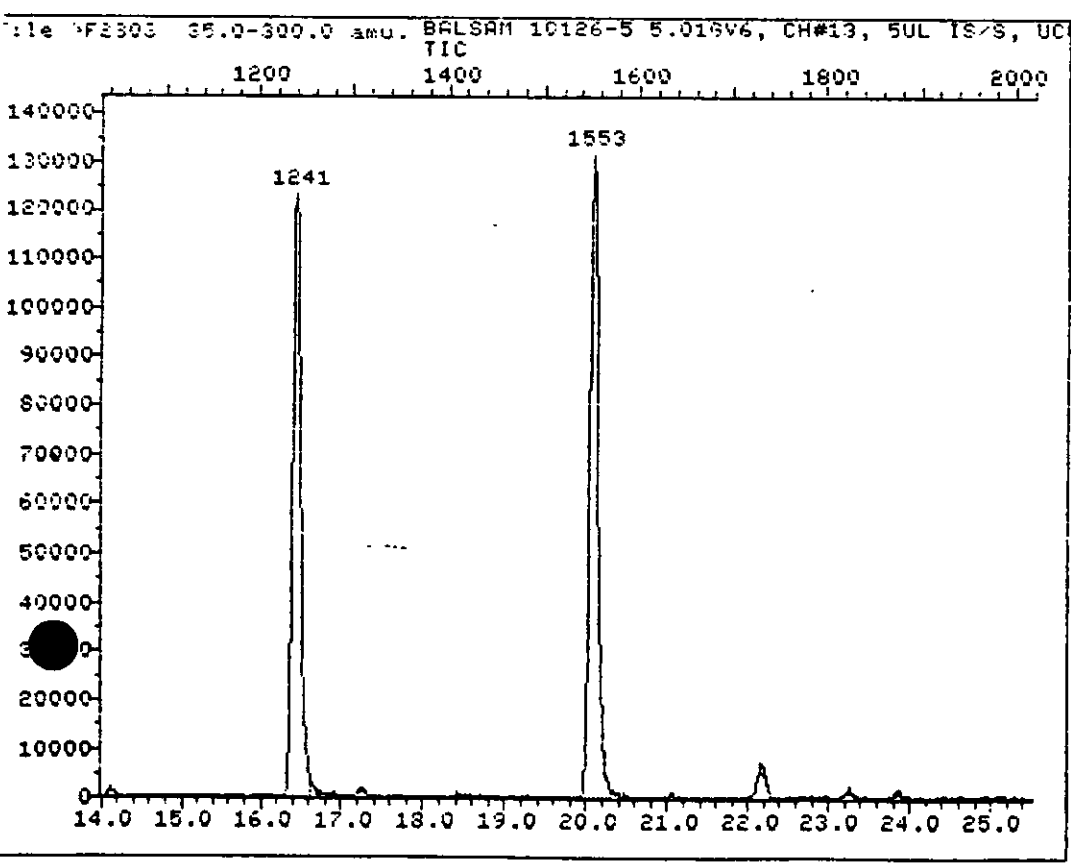
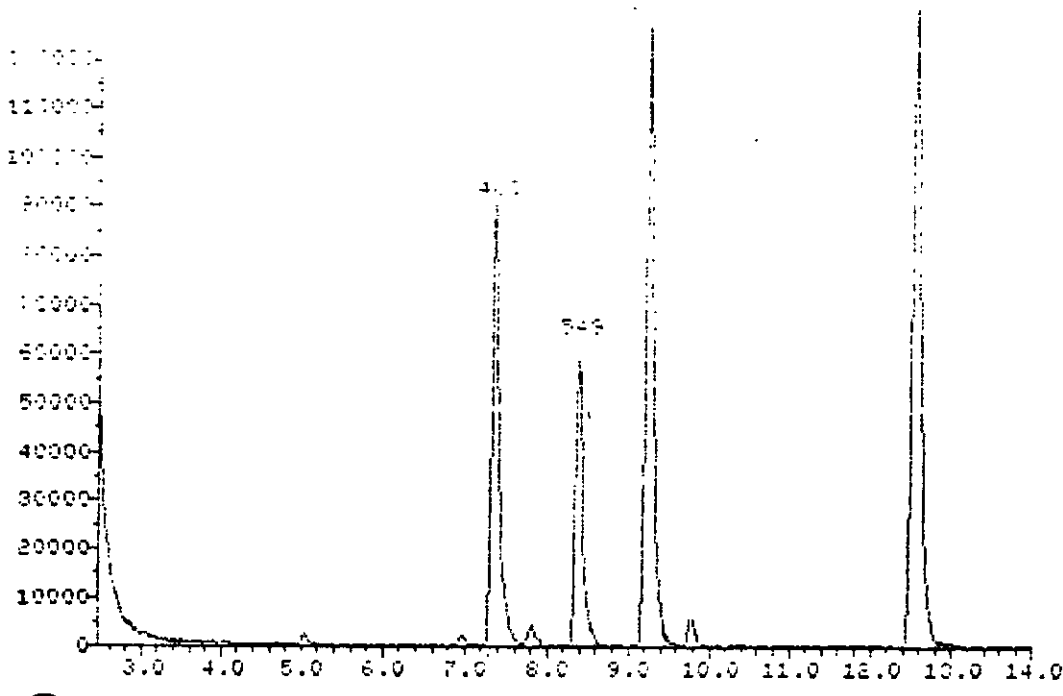
Concentration
In Sample

Scan 0 0 106 106 1 CHS # Compound

NO Unk's

Area: 1.0
Concentration = Area / (Length * Width)

Area	Length	Width	Area	Height	Conc. as Analyzed
------	--------	-------	------	--------	-------------------



000073

#	Name	Area	Concentration	Flag
		Area	Concentration	Flag
1	Chlorobenzene	7122	50.000 UG/L	OK
2	1,4-Dichlorobenzene	2396	50.000 UG/L	OK
3	2,4-Dichlorobenzene	3504	50.000 UG/L	OK

Deleting peaks from INT file: UDIR87
 Minimum area: 10 % of area of closest Int. Std.
 Number of peaks: 6
 Number of peaks remaining: 6

Deleting target compounds from INT file: UDIR87
 Minimum separation of TIC and target: 5.
 Maximum fraction of RIC peak from targets: 40. %
 Number of peaks: 6
 Number of peaks remaining: 0

Deleting all but largest peaks from INT file: UDIR87
 Maximum number of peaks to keep: 15
 Number of peaks: 0
 Minimum number of peaks > number of peaks.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl Chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene Chloride	160	BJ
67-64-1	Acetone	1500	U
75-15-0	Carbon Disulfide	730	U
75-35-4	1,1-Dichloroethene	730	U
75-34-3	1,1-Dichloroethane	730	U
540-59-0	1,2-Dichloroethene (total)	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
78-93-3	2-Butanone	1500	U
71-55-6	1,1,1-Trichloroethane	660	J
56-23-5	Carbon Tetrachloride	730	U
108-05-4	Vinyl Acetate	1500	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	230	J
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
110-75-8	2-Chloroethylvinylether	1500	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-Pentanone	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U
108-88-3	Toluene	410	J
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	4700	
100-42-5	Styrene	730	U
1330-20-7	Xylene (total)	31000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	7700	JN
2. 124-18-5	Decane	21.70	1700	JN
3.	Unknown	22.05	11000	JN
4.	C3-benzene isomer	22.79	1900	JN
5.	Unknown	23.16	1500	JN

RR
KCLX

F-257C
10/11

10/11
10/11

-10-3

Propagate below test entries

Compound	Surrogate Spiked	Amount Measured (ug)	% Recovery Measured	U.S. Criteria
1316 EA-1,2-dichloroethane	25.00	32.37	129*	70 121
1305 EA-Toluene	25.00	31.92	128*	81 117
1310 Bromofluorobenzene	25.00	33.90	135*	74 121

Target Compounds: MDEID6

Scan #	Concentration (ug/L)	Sample (ug)	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
252	1.108	140 SP	C040 Carbon Disulfide
		BDL	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
491	4.556	560 SP	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
658	1.557	190 SP	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

000077

Code	Description	Unit	Value	Value
C250	Xylenes (total)	BOL	55.217	1403
C350	Dichlorobenzene (o)	BOL	1.273	1402
C340	Dichlorobenzene (p)	BOL	53.887	1403
C335	Dichlorobenzene (m)	BOL	159.031	1401
C005	1,1,2,2-Tetrachloroethane	BOL	30.948	1288
C045	Ethylene	BOL		
C02X	Xylenes (o)	BOL		
C01X	Xylenes (p)	BOL		
C050	Ethylbenzene	BOL		
C231	Dichloroethane	BOL		
C016	Tetrahydrofuran	BOL		
C018	Diethylamine	BOL		
C017	Diethylamine	BOL		
C019	Diethylamine	BOL		
C015	Diethylamine	BOL		
C014	Diethylamine	BOL		
C013	Diethylamine	BOL		
C012	Diethylamine	BOL		
C011	Diethylamine	BOL		
C010	Diethylamine	BOL		
C009	Diethylamine	BOL		
C008	Diethylamine	BOL		
C007	Diethylamine	BOL		
C006	Diethylamine	BOL		
C005	Diethylamine	BOL		
C004	Diethylamine	BOL		
C003	Diethylamine	BOL		
C002	Diethylamine	BOL		
C001	Diethylamine	BOL		
			215.02	
			55.217	
			2644	

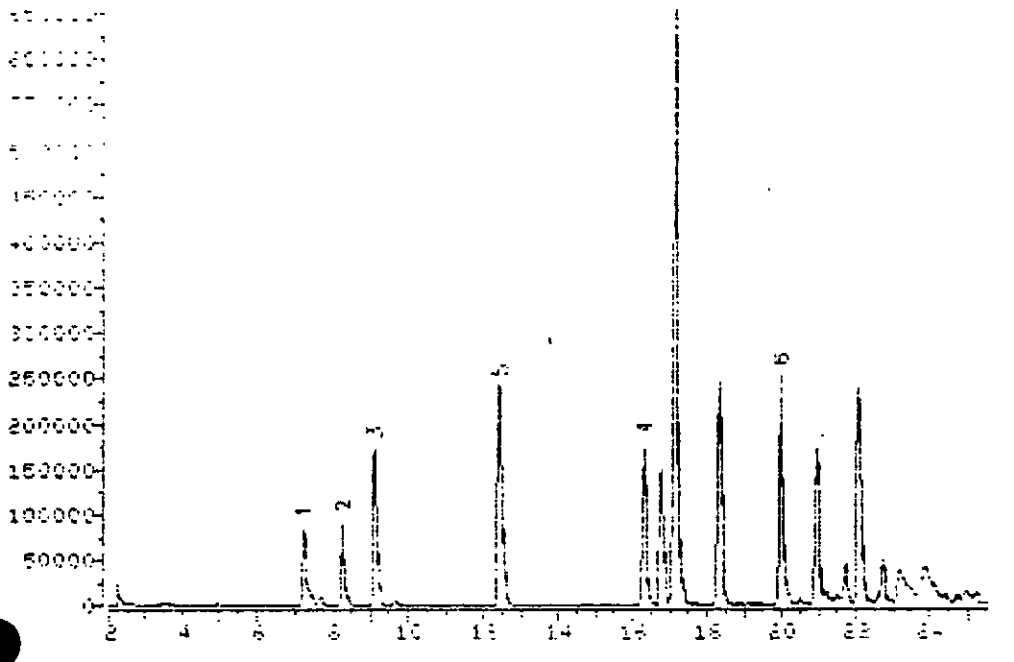
Peak #	Retention Time (min)	Mass	Abundance	Library Name	Library Retention Time (min)	Library Mass	Library Abundance	Library Name
1	1.18	77.0	1.00	Acetylene	1.18	77.0	1.00	Acetylene
2	1.27	77.0	1.00	Acetylene	1.27	77.0	1.00	Acetylene
3	1.82	31.0	1.00	Acetylene	1.82	31.0	1.00	Acetylene
4	1.87	31.0	1.00	Acetylene	1.87	31.0	1.00	Acetylene
5	2.35	44.0	1.00	Acetylene	2.35	44.0	1.00	Acetylene
6	3.14	84.0	1.00	1,1-Dichloroethane	3.14	84.0	1.00	1,1-Dichloroethane
7	4.39	43.0	1.00	Acetone	4.39	43.0	1.00	Acetone
8	4.60	76.0	1.00	Carbon Tetrachloride	4.60	76.0	1.00	Carbon Tetrachloride
9	4.93	84.0	1.02	Methylene Chloride	4.93	84.0	3659	1.7396
10	5.09	59.0	1.00	Tert-butyl alcohol	5.09	59.0	0	1.0770
11	5.32	96.0	1.00	Trans-1,2-dichloroeth	5.32	96.0	0	1.6583
12	6.83	96.0	1.00	Cis-1,2-dichloroeth	6.83	96.0	0	1.2987
13	5.33	73.0	1.00	Methyl tert-butyl et	5.33	73.0	0	3.1782
14	5.93	63.0	1.00	1,1-Dichloroethane	5.93	63.0	0	3.2420
15	7.37	83.0	1.00	Chloroform	7.37	83.0	0	3.6956
16	8.40	62.0	1.00	1,2-Dichloroethane	8.40	62.0	0	2.1656
17	8.85	72.0	1.00	2-Butanone	8.85	72.0	0	1.1151
18	8.26	69.0	1.00	1,2-Dichloroethane	8.26	69.0	298750	1.6484
19	9.15	114.0	1.04	1,4-Difluorobenzene	9.15	114.0	617961	1.9050
20	8.01	47.0	1.00	Vinyl Acetate	8.01	47.0	0	1.0992
21	7.70	97.0	1.01	1,1,1-Trichloroethan	7.70	97.0	26749	1.475
22	7.99	117.0	1.00	Carbon Tetrachloride	7.99	117.0	0	1.4487
23	8.37	78.0	1.00	Benzene	8.37	78.0	0	1.9682
24	9.65	130.0	1.01	Trichloroethene	9.65	130.0	6318	1.3931
25	10.12	63.0	1.00	1,2-Dichloropropane	10.12	63.0	0	1.3949
26	10.74	93.0	1.00	Bromodichloromethane	10.74	93.0	0	1.6930
27	11.46	63.0	1.00	2-Chloroethylvinylet	11.46	63.0	0	1.1765
28	11.77	75.0	1.00	Cis-1,3-Dichloroprop	11.77	75.0	0	1.6817
29	13.18	75.0	1.00	Trans-1,3-dichloropr	13.18	75.0	0	1.4559
30	13.64	97.0	1.00	1,1,2-Trichloroethan	13.64	97.0	0	1.3107
31	14.69	129.0	1.00	Dibromochloromethane	14.69	129.0	0	1.4736
32	18.88	173.0	1.00	Bromoform	18.88	173.0	0	1.2748
33	16.37	117.0	1.07	05-Chlorobenzene	16.37	117.0	419511	1.0000
34	12.42	98.0	1.01	08-Toluene	12.42	98.0	667964	1.2743
35	12.18	43.0	1.00	4-Methyl-2-pentanone	12.18	43.0	0	1.3539
36	12.58	92.0	1.00	Toluene	12.58	92.0	19836	1.8513
37	14.37	47.0	1.00	2-Hexanone	14.37	47.0	0	1.2388
38	13.99	164.0	1.00	Tetrachloroethene	13.99	164.0	0	1.4399
39	16.37	112.0	1.00	Chlorobenzene	16.37	112.0	0	1.0207
40	16.76	106.0	1.00	Ethylbenzene	16.76	106.0	137599	1.5133
40D	16.76	17.13	1.38	Ethylbenzene	16.76	17.13	766878	1.5133
41	17.13	106.0	1.37	Xylenes (p)	17.13	106.0	137599	1.6661
41	17.13	17.13	1.00	Xylenes (p)	17.13	17.13	766878	1.6661
42	18.30	106.0	1.02	Xylenes (o)	18.30	106.0	275795	1.6234
43	18.35	104.0	1.04	Styrene	18.35	104.0	12457	1.1017
44	20.53	83.0	1.00	1,1,2,2-Tetrachloroe	20.53	83.0	0	1.6160
45	19.95	95.0	1.01	Bromofluorobenzene	19.95	95.0	403752	1.7254
46	23.49	146.0	1.00	Dichlorobenzene (m)	23.49	146.0	0	1.8993
47	23.81	146.0	1.00	Dichlorobenzene (p)	23.81	146.0	0	1.8234
48	25.04	146.0	1.00	Dichlorobenzene (o)	25.04	146.0	0	1.8347

000079

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23.4
1971
1971



Data File: NF28901:06 Quant Output File: NF28901:07
 Name: BALS. 10135-8 100JLX Instrument ID: V6
 Misc: V6, CH#10, SUL MED 1S, EXT=4.07G/10ML 10/08, UCC-SB-B

Id File: MOB106::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCC/ENSECO
 Last Calibration: 910814 09:37 Last Cal Time: 911010 11:33

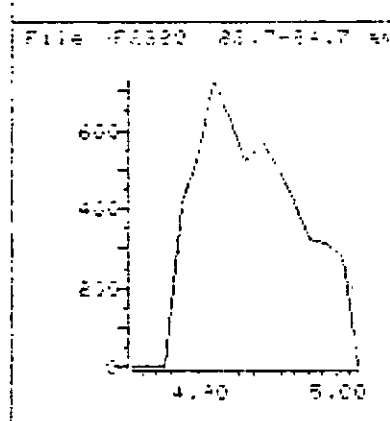
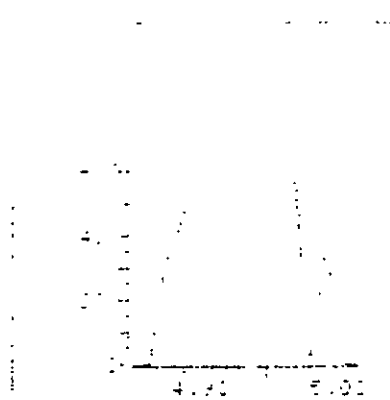
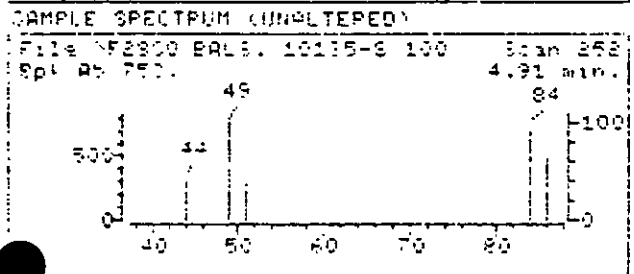
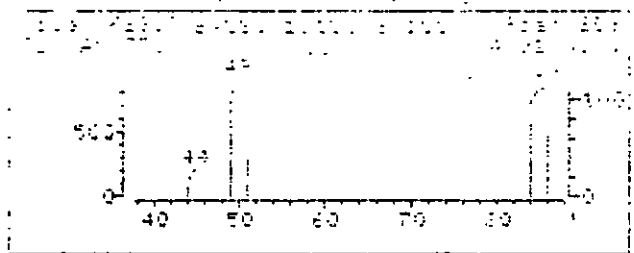
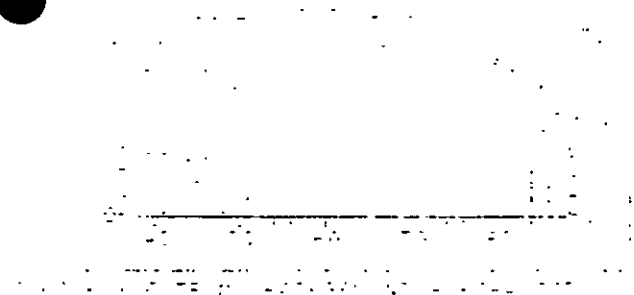
Operator ID: KEPYLYNN
 Quant Time : 911010 21:10
 Injected at: 911010 20:43

Method: GC/MS.D, File: 000181.E, Date: 10/18/01, Time: 10:13:00
 Sample Name: 000181.E
 Report Date: 10/18/01
 Report Time: 10:13:00
 Analyst: [Name]
 Lab: [Name]

Compound	R.T.	Q Ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.23	128.0	94921	50.00	UG/L	72
9) C030 Methylene Chloride	4.91	84.0	3659	1.11	UG/L	59
18) C015 04-1,2-dichloroethane	8.27	65.0	208750	64.74	UG/L	81
19) *C110 1,4-Difluorobenzene	9.12	114.0	515951	50.00	UG/L	100
21) C115 1,1,1-Trichloroethane	7.70	97.0	25738	4.56	UG/L	96
24) C150 Trichloroethene	9.64	130.0	6718	1.56	UG/L	97
33) *C120 06-Chlorobenzene	16.30	117.0	410511	50.00	UG/L	100
34) C006 08-Toluene	12.47	98.0	667964	67.84	UG/L	96
35) C030 Toluene	12.58	92.0	19836	2.84	UG/L	96
40) C040 Ethylbenzene	16.76	106.0	137600	32.65	UG/L	91
41) C008 Xylenes (o)	17.17	106.0	766878	140.23	UG/L	96
42) C008 Xylenes (m)	18.30	106.0	375795	53.84	UG/L	96
43) C045 Styrene	18.31	104.0	12457	1.38	UG/L	100
45) C010 Bromofluorobenzene	19.95	96.0	403752	67.79	UG/L	74
49) C050 Xylenes (total)	18.32	106.0	276754	59.22	UG/L	88

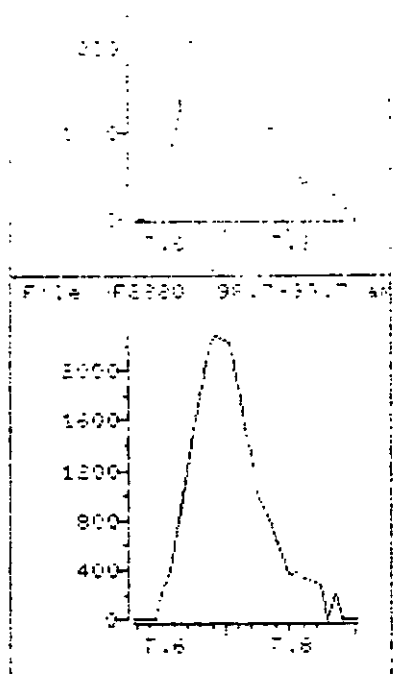
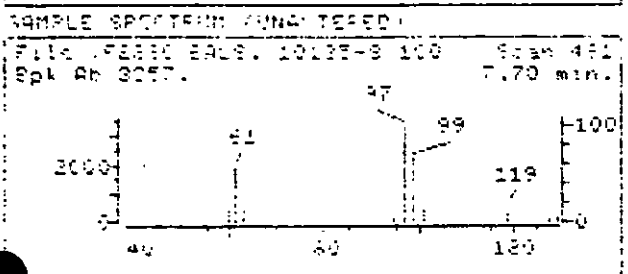
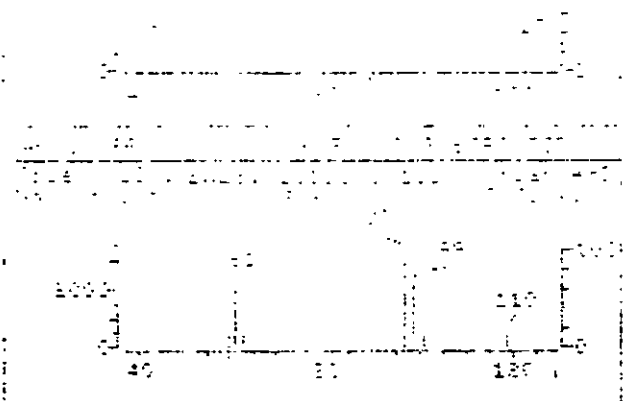
1077635M 215.00ug/L
 DV
 101091

* Compound is ISTD



Data File: >F0280:106 Quant Output File: >F2950:107
 Name: BALS. 10135-8 100ULX Instrument ID: 06
 Misc: U6, CH#10, SUL MED IS, EXT=4.976/10ML 19/08, UCC-SB-B
 Quant Time: 911010 21:10 Quant ID File: M08106:MT
 Injected at: 911010 20:43 Last Calibration: 910914 09:37
 Last Qual Time: 911010 11:03

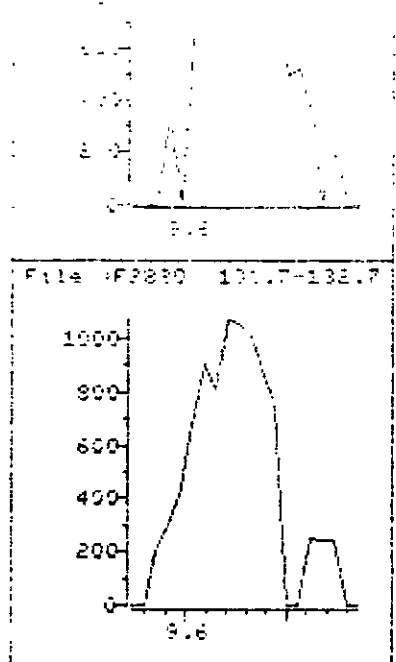
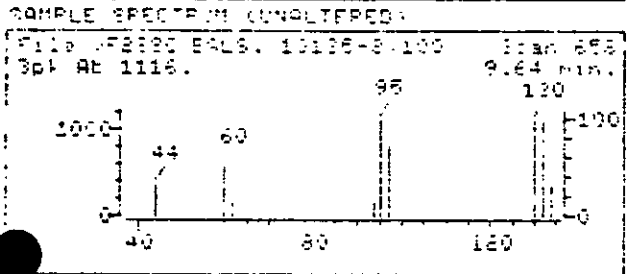
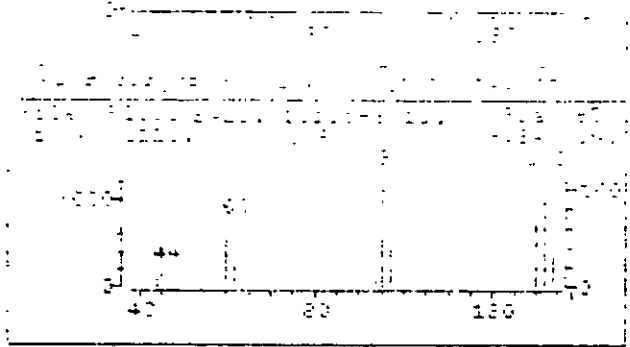
Compound No: 9
 Compound Name: C030 Methylene Chloride
 Scan Number: 252
 Retention Time: 4.91 min.
 Quant Ion: 84.0
 Area: 3659
 Concentration: 1.11 UG/L
 q-value: 59



Data File: F8280:106
 Name: BALS. 10135-3 100ULX
 Misc: 06, CH#10, 5UL MED IS, EXT=4.076/10ML 10/02, UCC-9B-B
 Quant Time: 911010 21:10
 Injected at: 911010 20:47
 Last Qcal Time: 911010 11:03

Quant Output File: F8280:107
 Instrument ID: Uo
 Quant ID File: MUBID6:MT
 Last Calibration: 910214 09:37

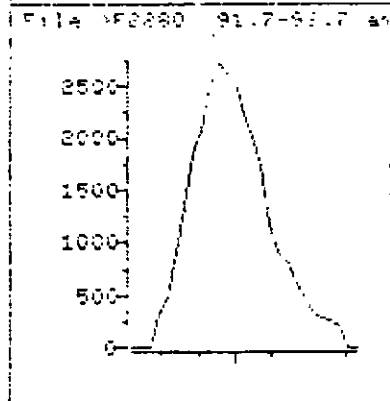
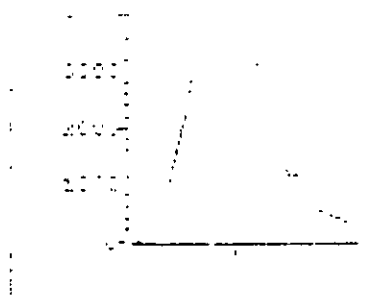
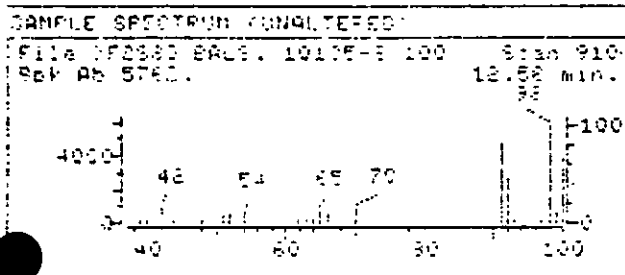
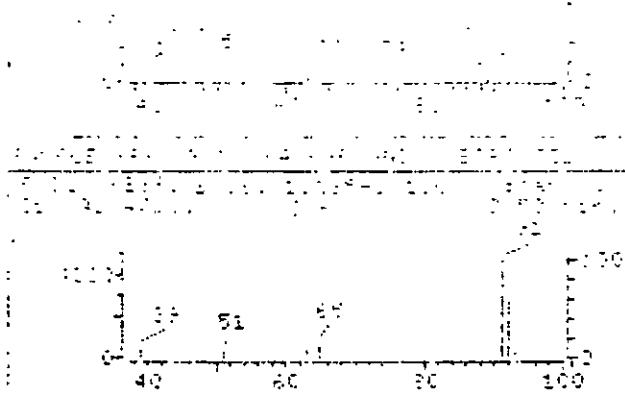
Compound No : 21
 Compound Name : C115 1,1,1-Trichloroethane
 Scan Number : 491
 Retention Time: 7.70 min.
 Quant Ion : 97.0
 Area : 25738
 Concentration : 4.56 UG/L
 q-value : 96



Data File: #F2890::06
 Name: SALS. 10135-8 100ULX
 Misc: U6, CH#10, SUL MED IS, EXT=4.02G/10ML 10/08, LCC-SB-8
 Quant Time: 911010 21:10
 Injected at: 911010 20:43
 Last Qual Time: 911010 11:03

Quant Output File: #F2890::07
 Instrument ID: U6
 Quant ID File: MOBID6::MT
 Last Calibration: 910814 09:37

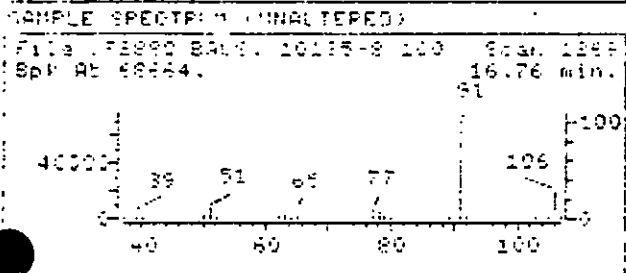
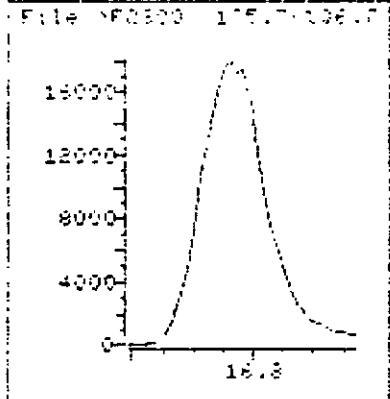
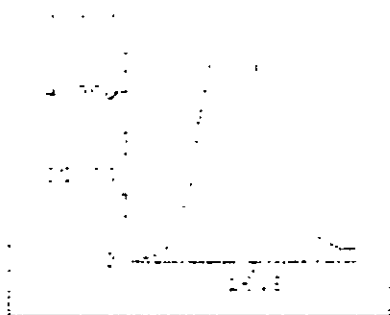
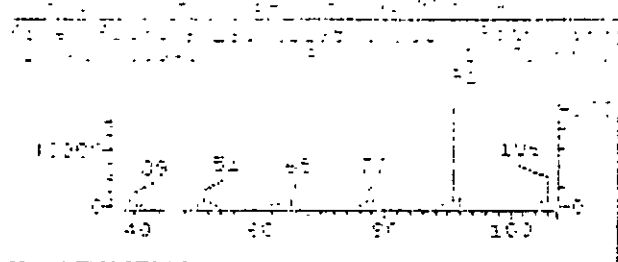
Compound No : 24
 Compound Name : C150 Trichloroethene
 Scan Number : 658
 Retention Time: 9.64 min.
 Quant Ion : 130.0
 Area : 6318
 Concentration : 1.56 UG/L
 q-value : 97



Data File: F2880.D
 Name: BALS. 10135-8 100ULX
 Mtd: U6, CH#10, SUL MED IS, EXT=4.0PG/10ML 10/09, UCC-SB-B
 Quant Time: 911010 21:10
 Injected at: 911010 20:43
 Last Qcal Time: 911010 11:03

Quant Output File: F2880.D
 Instrument ID: 06
 Quant ID File: MOBID6.MT
 Last Calibration: 910814 09:37

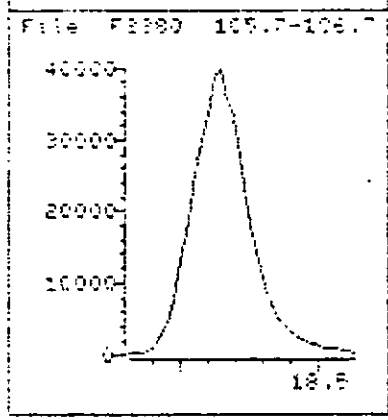
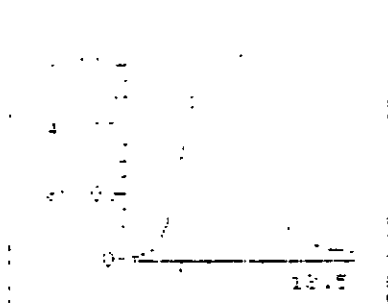
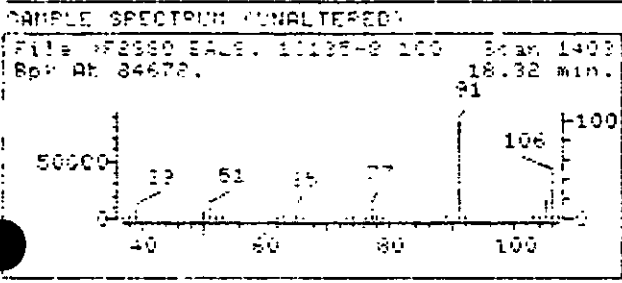
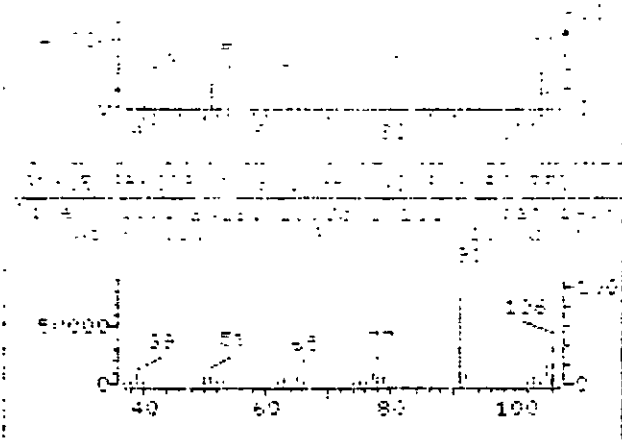
Compound No : 36
 Compound Name : C230 Toluene
 Scan Number : 910
 Retention Time: 12.58 min.
 Quant Ion : 92.0
 Area : 19836
 Concentration : 2.84 UG/L
 q-value : 96



Data File: >F0890:10e
 Name: BALS. 10135-8 100ULX
 Desc: U6, CH#10, SUL MED IS, EXT=4.07G/10ML 10/08, UCC-SB-E
 Quant Time: 911010 21:10
 Injected at: 911010 20:47
 Last Cal Time: 911010 11:03

Quant Output File: >F2880:10f
 Instrument ID: U6
 Quant ID File: MOBID6:INT
 Last Calibration: 910814 09:37

Compound No : 40
 Compound Name : C240 Ethylbenzene
 Scan Number : 1269
 Retention Time: 16.76 min.
 Quant Ion : 106.0
 Area : 137599
 Concentration : 32.65 UG/L
 q-value : 93



Date File: F32880:06
 Name: SALS. 10135-8 109DLX
 Misc: U6, CR#10, SUL MED IS, EXT=4.076/10ML 10/09, UCC-5B-2
 Quant Time: 911010 21:10
 Injected at: 911010 20:43
 Last Cal Time: 911010 11:03

Quant Output File: F32880:07
 Instrument ID: V6
 Quant ID File: MDEID6::MT
 Last Calibration: 910814 09:37

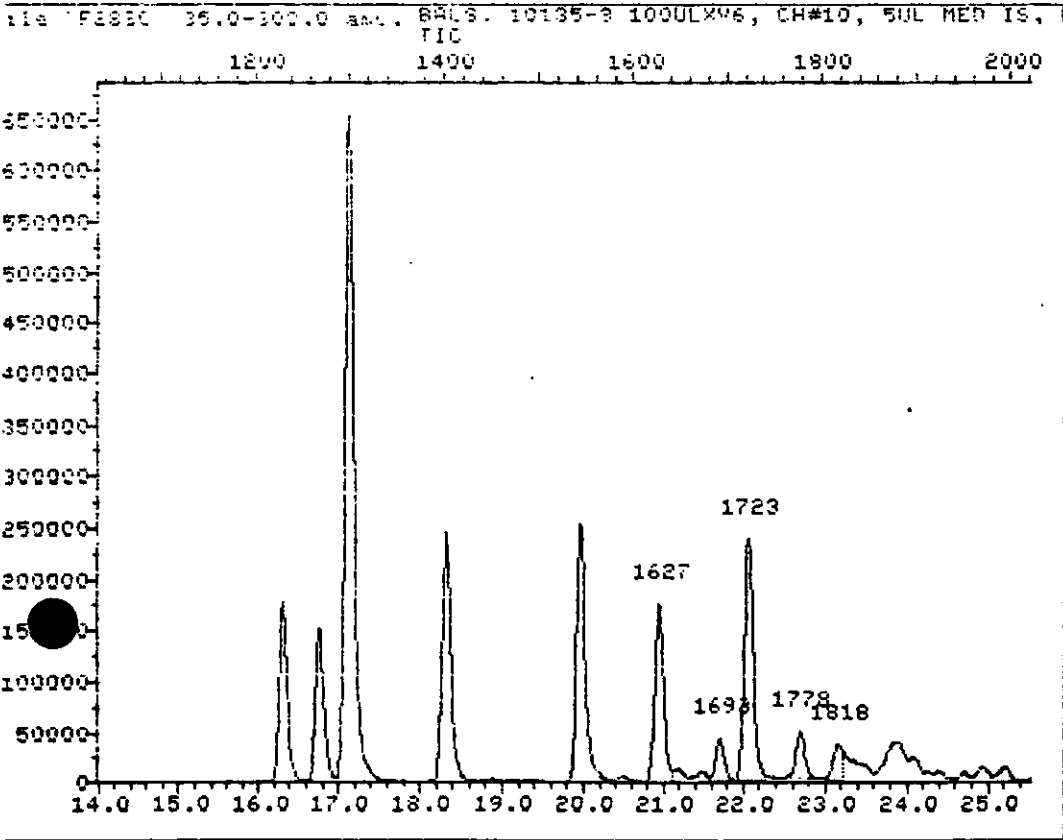
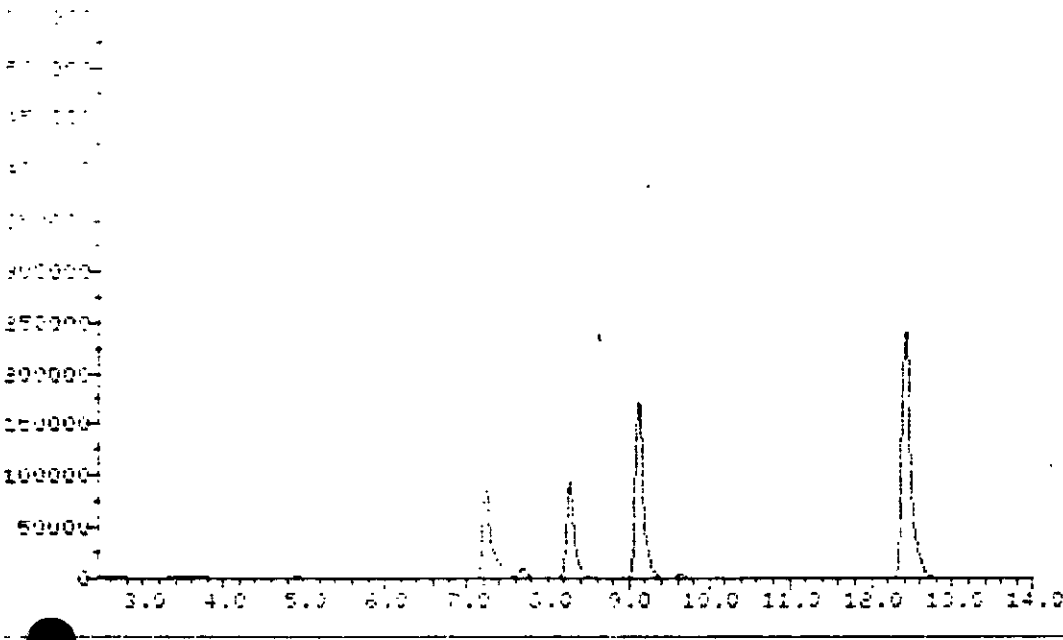
Compound No : 49
 Compound Name : C250 Xylenes (total)
 Scan Number : 1403
 Retention Time: 18.32 min.
 Quant Ion : 106.0
 Area : 276754
 Concentration : 55.22 UG/L
 q-value : 88

117
 H. 117
 received from ...
 conditions: ...

#	Area	Concentration	Compounds
1	1407.	5800.	104-18-7 unknown
2	1693.	1500.	104-18-8 Decane/ unknown
3	1227.	9000.	815-24-7 Pentamethane, 2,2,4,4-tetramethyl-
4	1778.	1600.	108-57-8 Benzene, 1,3,5-trimethyl- o3-benzene
5	1912.	1300.	265-43-5 Etherone, 1-cyanoethyl- unknown

Continuation of Form 1041

Line	Disposit	Int.	Div.	Cap	Prop	Trust	Benefit
1	48		10.47	11,254	11,254.00	178.14	11,432.14
2	49			1,100	1,100.00	12.11	1,221.11
3	48	2	10.00	11,354	10,000.00	218.15	10,218.15
4	51	17	10.00	11,354	10,000.00	218.15	10,218.15
5	20	52	13.16	11,471	259,133.00	368.75	270,680.81



000092

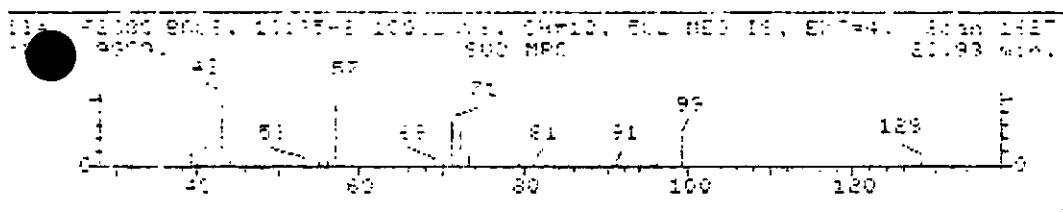
#	Name	Area	Height	Width	Retention	Abundance
1	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
2	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
3	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
4	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
5	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
6	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
7	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
8	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
9	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
10	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
11	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
12	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
13	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
14	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
15	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
16	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
17	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
18	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
19	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
20	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
21	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
22	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
23	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
24	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
25	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
26	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
27	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
28	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
29	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
30	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
31	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
32	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
33	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
34	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
35	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
36	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
37	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
38	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
39	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
40	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
41	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
42	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
43	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
44	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
45	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
46	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
47	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
48	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
49	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776
50	1,4-Difluoroben	58.000	0.613	1.193985	613.	99.776

Deleting peaks from INT file: UDIR87
 Minimum area: 10 % of area of closest int. Std.
 Number of peaks: 14
 Number of peaks remaining: 14

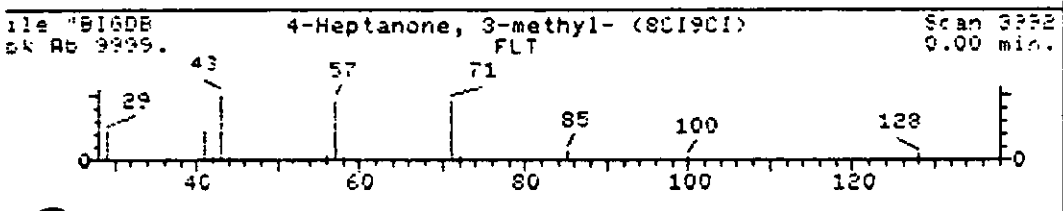
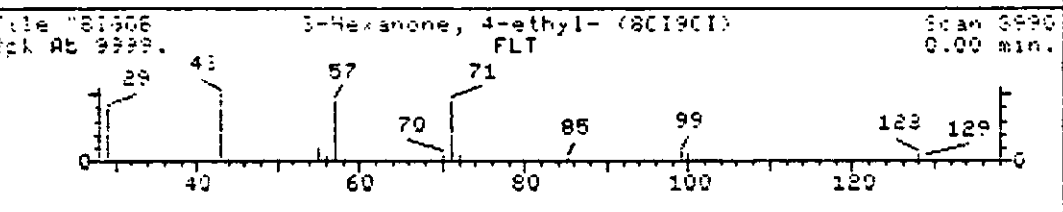
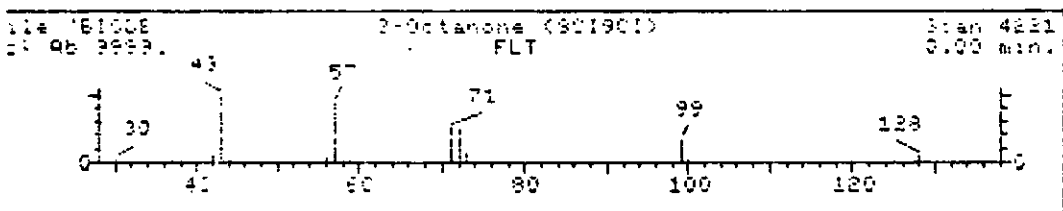
Deleting target compounds from INT file: UDIR87
 Minimum separation of TIC and target: 5.
 Maximum fraction of RIC peak from targets: 40. %
 Number of peaks: 14
 Number of peaks remaining: 5

Deleting all but largest peaks from INT file: UDIR87
 Maximum number of peaks to keep: 15
 Number of peaks: 5
 Maximum number of peaks > number of peaks.

Peak #	Retention Time (min)	Area	Height	Label	Abundance	Mass	Scan	Integration	Area	Height
1.	39.4	106683	4001	"BIGDB	91	18	1	0	100	0
2.	42.4	6137129	3999	"BIGDB	39	60	3	0	75	25
3.	48.4	15726185	3992	"BIGDB	49	47	3	0	71	29
4.	51.4	641985	3952	"BIGDB	44	63	2	0	60	33
5.	30.4	3195786	8739	"BIGDB	52	64	3	0	84	32
6.	23.4	5105789	3499	"BIGDB	34	51	3	0	97	41



Unknown
R



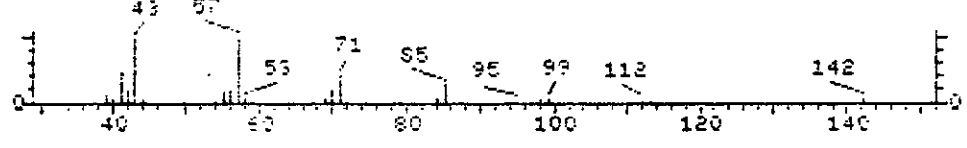
a. Decane, 2-methyl- (SCI9CI)
 b. Decane, 3-methyl- (SCI9CI)
 c. Decane, 2,9-dimethyl- (SCI9CI)

1. 21.70
 2. 0.00
 3. 0.00
 4. 0.00

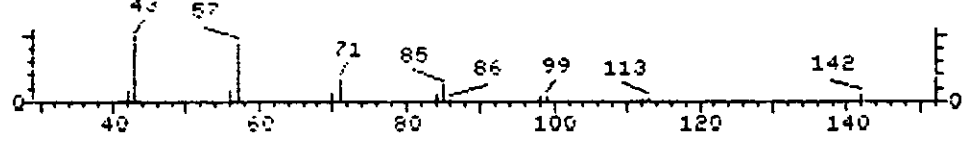
Sample name: 91107 Acquisition #: 1647
 Search speed: 2 Tilt/ing option: S No. of ion ranges tested: 11

Prob.	EPS #	CON #	ROOT	K	OK	#PLG	FLT	%	LOM	U_I	P_LI	
1.	37*	124189	16061	"BIGDB	73	27	2	1	92	0	63	49
2.	70	1002433	6148	"BIGDB	42	46	2	0	69	10	42	13
3.	60	1002171	6094	"BIGDB	55	37	2	0	92	14	30	19
4.	60	7045718	6095	"BIGDB	55	39	2	0	89	14	30	19
5.	60	62102241	8860	"BIGDB	52	47	2	0	100	12	30	13
6.	59*	16869939	3611	"BIGDB	50	43	2	0	100	24	27	31

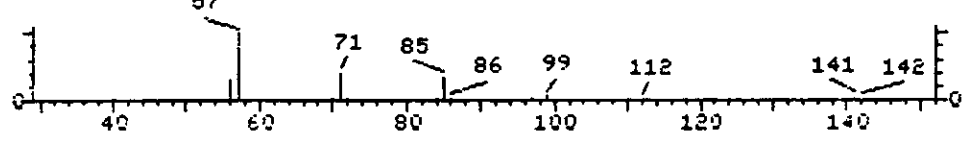
File: 91107.D 100000-1000000, CH=10, SUL MED IS, EXT=4, Scan 1699
 pk AB 9999, SUB MPC 21.70 min.



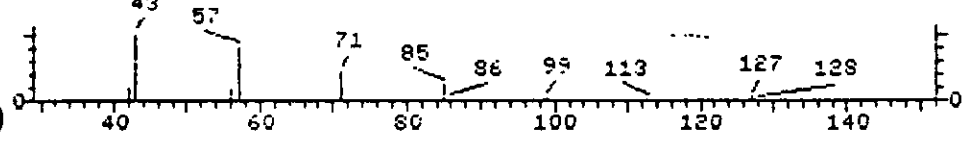
File "BIGDB" Decane (SCI9CI) Scan 16061
 pk AB 9999, FLT 0.00 min.



File "BIGDB" Undecane, 3-methyl- (SCI9CI) Scan 6148
 pk AB 9999, FLT 0.00 min.



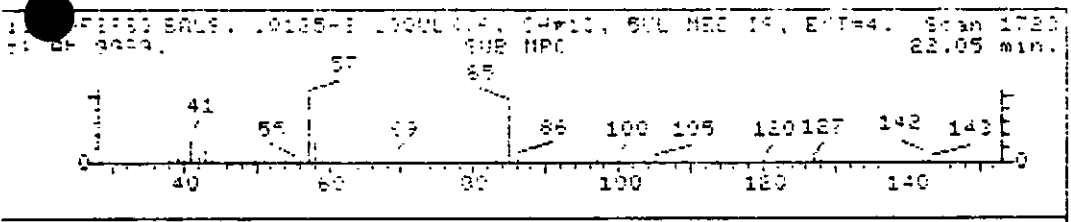
File "BIGDB" Decane, 2,9-dimethyl- (SCI9CI) Scan 6094
 pk AB 9999, FLT 0.00 min.



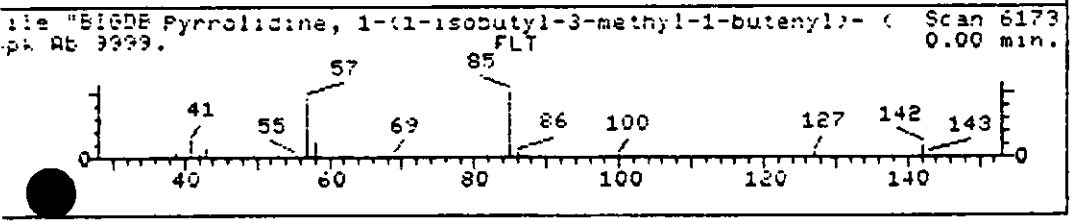
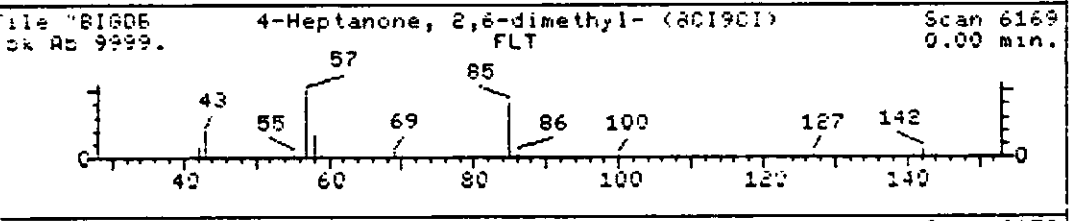
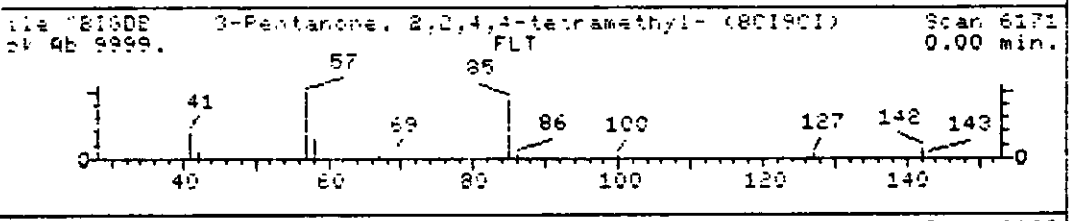
...
 ...
 ...
 ...

Sample #1: 1-10-...
 Sample #2: 1-10-...
 Sample #3: 1-10-...

Peak	Area	Height	Width	Retention	Mass	Abundance	Integration	Resolution	Quality	Label		
1.	85*	815247	6171	"B1608	79	14	0	0	69	2	72	95
2.	83*	108879	6149	"B1608	49	90	2	0	81	3	57	29
3.	79	3494040	6173	"B1608	82	13	1	4	70	7	48	36
4.	52*	4418615	5	"B1608	21	104	2	0	100	19	20	13
5.	28*	7492388	6174	"B1608	34	98	2	0	66	41	8	16
6.	26*	67668509	17499	"B1608	27	73	2	0	65	45	8	14



Arbman



C2 ...

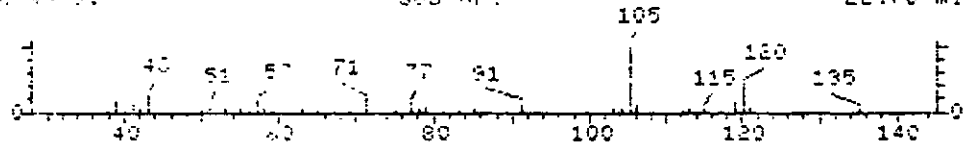
... benzene, 1,3,5-trimethyl- 8014011

110 14412

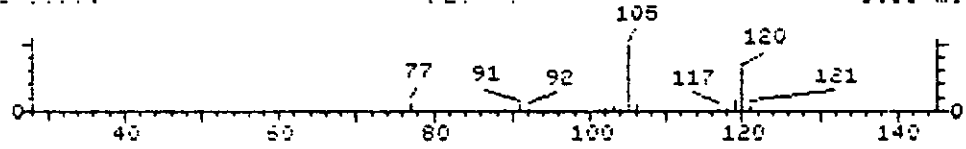
Sample #1: 1778 Scanning speed: 1 Filtering option: B No. of ion ranges recorded: 47

Peak #	Prot.	CH #	DN #	SCOT	K	DK	#PLG	TILT	%	CON	C_L1	R_L10
1.	71*	108678	12275	"B1G0B	60	28	2	1	71	18	38	39
2.	68*	622969	12269	"B1G0B	65	20	2	0	100	24	30	55
3.	69*	611143	12266	"B1G0B	65	10	2	0	100	24	30	55
4.	68*	620144	12267	"B1G0B	65	22	2	0	100	23	30	55
5.	66*	95636	12273	"B1G0B	65	30	2	0	76	29	31	49
6.	66*	526738	12280	"B1G0B	66	34	2	0	78	29	31	45

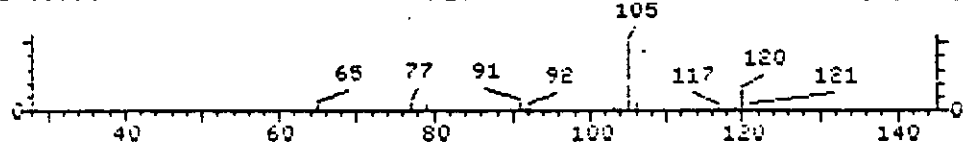
Scan 1778 22.70 min.



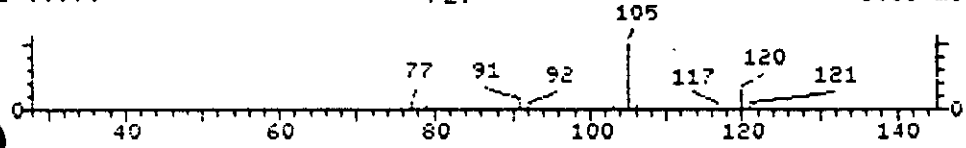
Scan 12275 0.00 min.



Scan 12268 0.00 min.



Scan 12266 0.00 min.

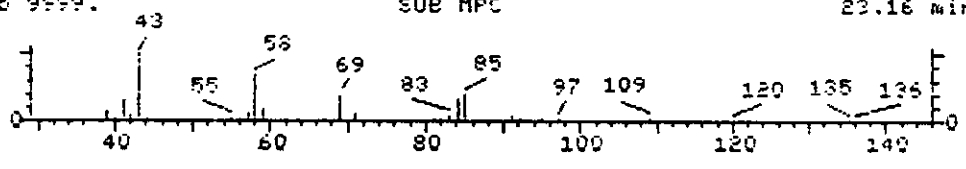


unknown

File # 10135-8 1000LXV6, CH#10, SUL MED IS, EXT#4. Scan 1818
Sub # 9999. SUB MPC 23.16 min.

Peak #	Retention Time (min)	Abundance
43	43	High
55	55	Low
56	56	Low
69	69	Low
83	83	Low
85	85	Low
97	97	Low
109	109	Low
120	120	Low
135	135	Low
136	136	Low

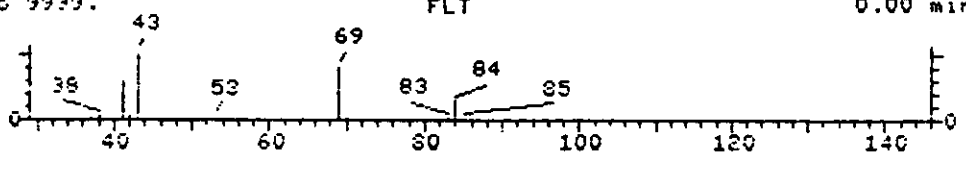
File # 10135-8 1000LXV6, CH#10, SUL MED IS, EXT#4. Scan 1818
Sub # 9999. SUB MPC 23.16 min.



File # 10135-8 1000LXV6, CH#10, SUL MED IS, EXT#4. Scan 1818
Sub # 9999. SUB MPC 23.16 min.

File # 10135-8 1000LXV6, CH#10, SUL MED IS, EXT#4. Scan 1818
Sub # 9999. SUB MPC 23.16 min.

File # 10135-8 1000LXV6, CH#10, SUL MED IS, EXT#4. Scan 1818
Sub # 9999. SUB MPC 23.16 min.



000098

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3RE

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	1500	U
74-83-9	-----Bromomethane	1500	U
75-01-4	-----Vinyl Chloride	1500	U
75-00-3	-----Chloroethane	1500	U
75-09-2	-----Methylene Chloride	730	U
67-64-1	-----Acetone	1500	U
75-15-0	-----Carbon Disulfide	730	U
75-35-4	-----1,1-Dichloroethene	730	U
75-34-3	-----1,1-Dichloroethane	730	U
540-59-0	-----1,2-Dichloroethene (total)	730	U
67-66-3	-----Chloroform	730	U
107-06-2	-----1,2-Dichloroethane	730	U
78-93-3	-----2-Butanone	1500	U
71-55-6	-----1,1,1-Trichloroethane	730	U
56-23-5	-----Carbon Tetrachloride	730	U
108-05-4	-----Vinyl Acetate	1500	U
75-27-4	-----Bromodichloromethane	730	U
78-87-5	-----1,2-Dichloropropane	730	U
10061-01-5	-----cis-1,3-Dichloropropene	730	U
79-01-6	-----Trichloroethene	730	U
124-48-1	-----Dibromochloromethane	730	U
79-00-5	-----1,1,2-Trichloroethane	730	U
71-43-2	-----Benzene	730	U
10061-02-6	-----trans-1,3-Dichloropropene	730	U
110-75-8	-----2-Chloroethylvinylether	1500	U
75-25-2	-----Bromoform	730	U
108-10-1	-----4-Methyl-2-Pentanone	1500	U
591-78-6	-----2-Hexanone	1500	U
127-18-4	-----Tetrachloroethene	730	U
79-34-5	-----1,1,2,2-Tetrachloroethane	730	U
108-88-3	-----Toluene	730	U
108-90-7	-----Chlorobenzene	730	U
100-41-4	-----Ethylbenzene	410	J
100-42-5	-----Styrene	730	U
1330-20-7	-----Xylene (total)	4900	

000099

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3RE

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE
Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919
Level: (low/med) MED Date Received: 10/05/91
& Moisture: not dec. 16 Date Analyzed: 10/12/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	5200	JN
2. 124-18-5	Decane	21.68	1600	JN
3.	Unknown	22.05	8200	JN
4.	C9H12 isomer	22.69	1300	JN
5.	Unknown	23.13	1000	JN
6.	C4-benzene isomer	25.19	790	JN

NC

10/12/91
10-21-91

8 10/12/91
100-AX

2 10-21-91

Method: GC/MS
Sample: 100-AX
Analyst: PER...
Quant. Limit: 1.00
Surrogate Spike Recoveries
Unit: 100%
Pur. Factor: 100.00
Surrogate Spike:
cf: 2407

Compound	Surrogate Amount (ug)		% Recovery Measured	DL limits
	Spiked	Measured		
1919 04-1,2-dichloroethane	25.00	14.81	59.2*	70 121
1905 08-Toluene	25.00	17.37	69.5*	81 117
1910 Bromofluorobenzene	25.00	16.10	64.4*	74 121

ok confirmation

Target Compounds: MOBID6

Scan #	Concentration	Quant List	Sample	Compound
	100 L		09-KIS	
BDL				C010 Chloromethane
BDL				C020 Vinyl Chloride
BDL				C015 Bromomethane
BDL				C025 Chloroethane
BDL				C045 1,1-Dichloroethene
BDL				C035 Acetone
BDL				C040 Carbon Disulfide
BDL				C030 Methylene Chloride
BDL				CXXX Tert-butyl alcohol
BDL				C053 Trans-1,2-dichloroethene
BDL				C055 Cis-1,2-dichloroethene
BDL				CXXX Methyl tert-butyl ether
BDL				C050 1,1-Dichloroethane
BDL				C060 Chloroform
BDL				C065 1,2-Dichloroethane
BDL				C110 2-Butanone
BDL				C125 Vinyl Acetate
BDL				C115 1,1,1-Trichloroethane
BDL				C120 Carbon Tetrachloride
BDL				C165 Benzene
BDL				C150 Trichloroethene
BDL				C140 1,2-Dichloropropane
BDL				C130 Bromodichloromethane
BDL				C175 2-Chloroethylvinylether
BDL				C143 Cis-1,3-Dichloropropene
BDL				C172 Trans-1,3-dichloropropene
BDL				C160 1,1,2-Trichloroethane

1000X SE 10/21/77

Peak #	UG/L	UG/L	Compound
		BDL	C188 Dibromochloromethane
		BDL	C187 Dichloromethane
		BDL	C205 4-Methyl-2-pentanone
		BDL	C030 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
1266	2.916	340	C240 Ethylbenzene
1297	19.459	2400	CXXX Xylenes (p)
1400	11.181	1400	CXXX Xylenes (o)
		BDL	C245 Styrene
		BDL	C225 1,1,2,2-Tetrachloroethane
		BDL	C335 Dichlorobenzene (m)
		BDL	C340 Dichlorobenzene (p)
		BDL	C350 Dichlorobenzene (o)
1297	33.476	4100	C250 Xylenes (total)

Compound		Pred	Found	Dif	Ion	Area	Conc	Ref
1)	*C101	Bromochloromethane	2.26	7.22	.94	128.0	82228	1.0000
2)	C040	Chloroacetylene	2.68	0.00	--	81.0	0	1.0000
3)	C020	Vinyl chloride	2.81	0.00	--	62.0	0	1.0000
4)	C116	Bromomethane	3.21	0.00	--	94.0	0	1.0000
5)	C025	Chloroethane	3.33	0.00	--	64.0	0	1.0000
6)	C045	1,1-Dichloroethane	4.30	0.00	--	95.0	0	1.0000
7)	C035	Acetone	4.37	0.00	--	43.0	0	1.0000
8)	C042	Carbon Disulfide	4.59	0.00	--	76.0	0	1.0000
9)	C030	Methylene Chloride	4.94	4.89	.05	84.0	1836	1.9495
10)	CXXX	Tert-butyl alcohol	5.09	0.00	--	59.0	0	1.0000
11)	C053	Trans-1,2-dichloroet	5.31	0.00	--	96.0	0	1.8870
12)	C055	Cis-1,2-dichloroethe	6.81	0.00	--	96.0	0	2.1051
13)	CXXX	Methyl tert-butyl et	5.30	0.00	--	73.0	0	3.2861
14)	C050	1,1-Dichloroethane	5.91	0.00	--	63.0	0	3.5292
15)	C060	Chloroform	7.35	0.00	--	83.0	0	4.0280
16)	C058	1,2-Dichloroethane	8.39	0.00	--	62.0	0	2.4804
17)	C110	2-Butanone	6.83	0.00	--	72.0	0	1.1404
18)	C015	D4-1,2-dichloroethan	8.24	8.23	.01	65.0	109621	1.9353
19)	*C110	1,4-Difluorobenzene	9.15	9.10	.06	114.0	526760	1.0000
20)	C125	Vinyl Acetate	5.99	0.00	--	47.0	0	1.4676
21)	C115	1,1,1-Trichloroethan	7.67	0.00	--	97.0	0	1.5747
22)	C120	Carbon Tetrachloride	7.97	0.00	--	117.0	0	1.4641
23)	C165	Benzene	8.34	0.00	--	78.0	0	1.0150
24)	C150	Trichloroethene	9.62	0.00	--	130.0	0	1.4334
25)	C140	1,2-Dichloropropane	10.09	0.00	--	63.0	0	1.4174
26)	C130	Bromodichloromethane	10.69	0.00	--	83.0	0	1.6012
27)	C175	2-Chloroethylvinylet	11.42	0.00	--	63.0	0	1.1957
28)	C143	Cis-1,3-Dichloroprop	11.73	0.00	--	75.0	0	1.6106
29)	C172	Trans-1,3-dichloropr	13.15	0.00	--	75.0	0	1.4875
30)	C160	1,1,2-Trichloroethan	13.59	0.00	--	97.0	0	1.3429
31)	C155	Dibromochloromethane	14.63	0.00	--	129.0	0	1.5106
32)	C180	Bromoform	18.80	0.00	--	173.0	0	1.3125
33)	*C120	D5-Chlorobenzene	16.34	16.29	.05	117.0	411730	1.0000
34)	C005	D8-Toluene	12.41	12.40	.01	98.0	343186	1.1997
35)	C205	4-Methyl-2-pentanone	12.18	0.00	--	43.0	0	1.3569
36)	C230	Toluene	12.58	0.00	--	92.0	0	1.8509
37)	C210	2-Hexanone	14.38	0.00	--	43.0	0	1.2562
38)	C220	Tetrachloroethene	13.99	0.00	--	164.0	0	1.4391
39)	C235	Chlorobenzene	16.38	0.00	--	112.0	0	1.0247
40)	C240	Ethylbenzene	16.74	16.74	.00	106.0	11670	1.5033
40)D	C240	Ethylbenzene	16.74	17.10	.36	106.0	102722	1.5033
41)	CXXX	Xylenes (p)	17.13	16.74	.38	106.0	11670	1.6411
42)	CXXX	Xylenes (p)	17.13	17.10	.02	106.0	102722	1.6411
42)	CXXX	Xylenes (o)	18.29	18.30	.02	106.0	55098	1.5984
43)	C245	Styrene	18.36	18.32	.04	104.0	1370	1.0632
44)	C225	1,1,2,2-Tetrachloroe	20.52	0.00	--	83.0	0	1.5937
45)	CS10	Bromofluorobenzene	19.92	19.95	.02	95.0	203855	1.7690
46)	C335	Dichlorobenzene (m)	23.49	0.00	--	146.0	0	1.9064
47)	C340	Dichlorobenzene (p)	23.80	0.00	--	146.0	0	1.8310
48)	C335	Dichlorobenzene (o)	25.22	0.00	--	146.0	0	1.8567

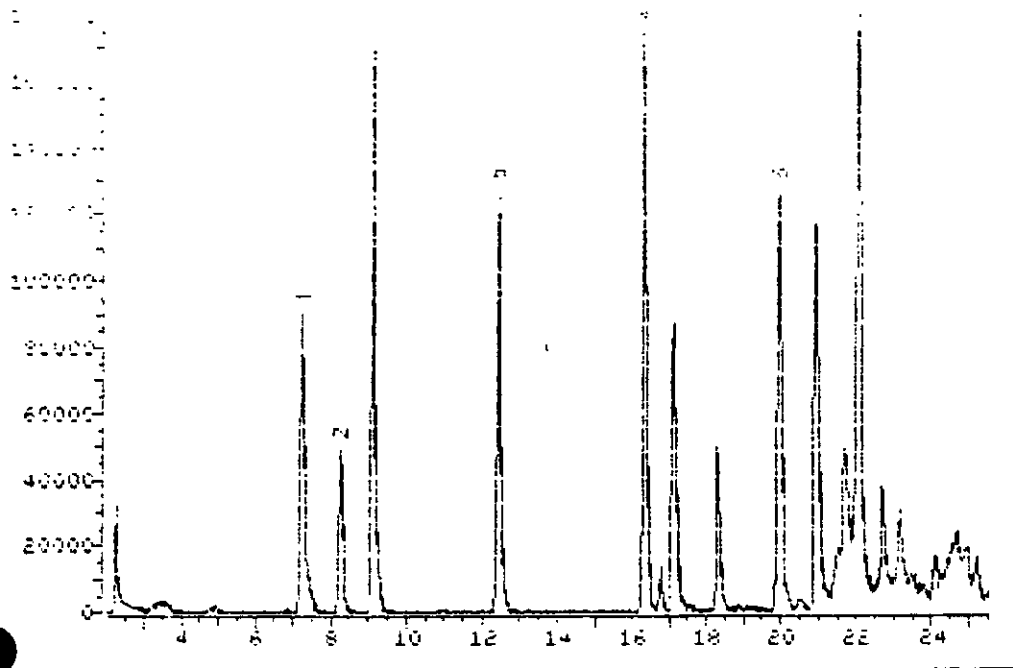
000103

1971-1972 (1971-1972) (1971-1972) (1971-1972) (1971-1972) (1971-1972)

1971-1972 (1971-1972) (1971-1972) (1971-1972) (1971-1972) (1971-1972)

Peak No.	Retention Time (min)	Area	Height	Area %
1191	Bromochloroethane	95836	67141	144.0
119	1,2-Dichloroethane	411730	307227	133.8
120	DF-Chlorobenzene	411730	316340	131.0

* - Sample mass 100.0000
 + Area outside limits



Data File: >F2919::06 *3cid12/91* Quant Output File: >F2919::07
 Name: BALS 10135-18 *ELU/100ul x* Instrument ID: 2 U6
 Misc: U6, CH05, SUL MEDIS, 4.07G 101191, UCC-SB-B-17-3 RE
 Id File: MOBID6::MT *2, 0, 0, 1, 1*
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911011 21:51
 Operator ID: KERYLYNN
 Quant Time : 911012 05:51
 Injected at: 911012 05:23

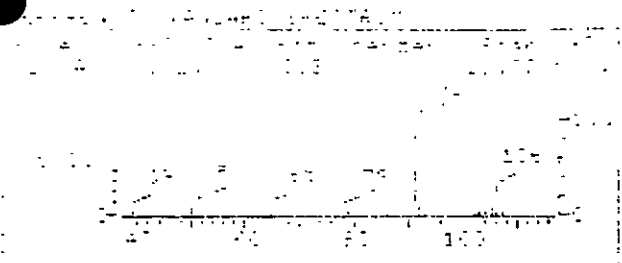
Report: 10/12/91
 File: 02101008
 Name: 0011191
 Date: 06, CH05, PUL, 10/12/91, 100-88-B-11-3
 Title: HPL ANALYSIS: 06m x 0.5mm: 08024 06 SPEC ENG000
 Lab: California Dept of Health

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.22	128.0		95635	50.00	UG/L	69
9)	C070 Methylene Chloride	4.89	84.0		1436	.492	UG/L	74
18)	CS15 D4-1,2-dichloroethane	8.23	65.0		109621	29.61	UG/L	83
19)	*CI10 1,4-Difluorobenzene	9.10	114.0		526760	50.00	UG/L	100
33)	*CI20 D5-Chlorobenzene	16.29	117.0		411730	50.00	UG/L	100
34)	CS05 D8-Toluene	12.40	98.0		343186	34.74	UG/L	96
40)	C240 Ethylbenzene	16.74	106.0		11670	2.82	UG/L	99
	CXXX Xylenes (p)	17.10	106.0		102722	19.46	UG/L	94
	CXXX Xylenes (o)	18.30	106.0		55098	11.18	UG/L	92
43)	C145 Styrene	18.32	104.0		1370	.156	UG/L	100
45)	CS10 Bromofluorobenzene	19.95	95.0		203855	32.19	UG/L	71
49)	CS50 Xylenes (total)	18.30	106.0		52216	11.02	UG/L	92

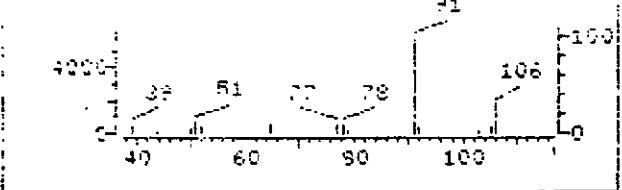
158053m 33.48

* Compound is ISTD

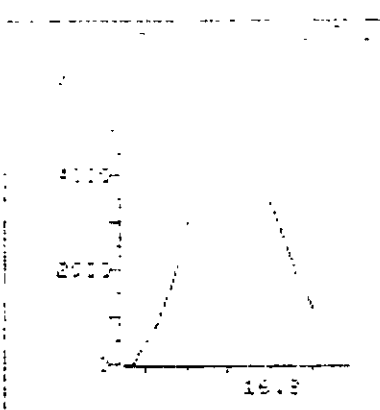
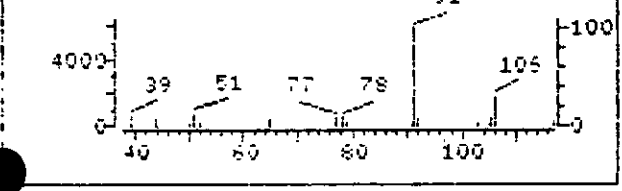
JZ 10/12/91



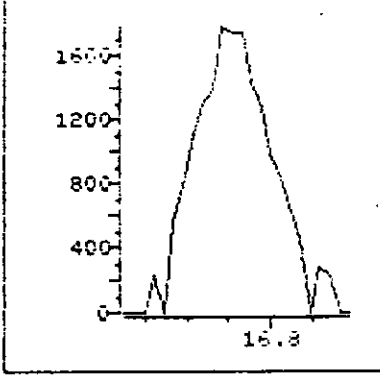
SAMPLE SPECTRUM (UNALTERED)
 File #F2919 BALS 10135-1 5UL Scan 1266
 BpV Ab 5568. 16.74 min.



SAMPLE SPECTRUM (UNALTERED)
 File #F2919 BALS 10135-1 5UL Scan 1266
 BpV Ab 5568. 16.74 min.



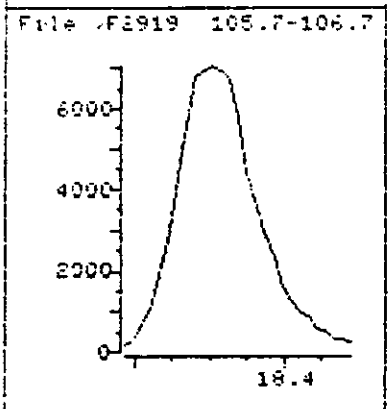
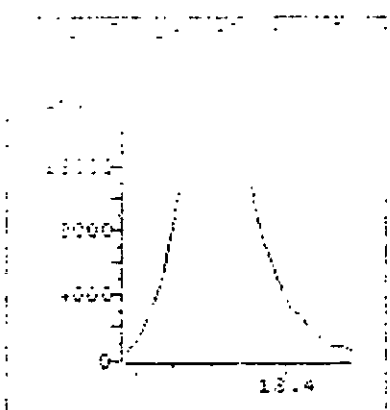
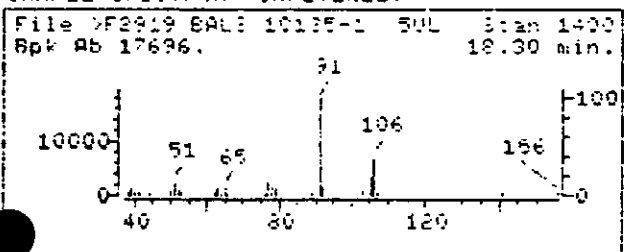
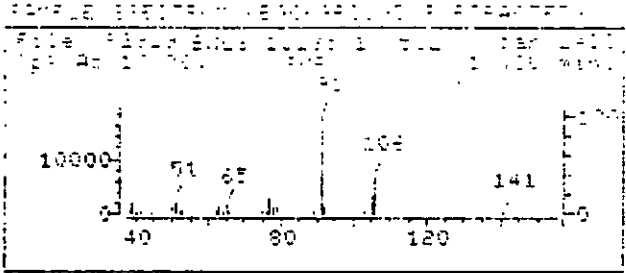
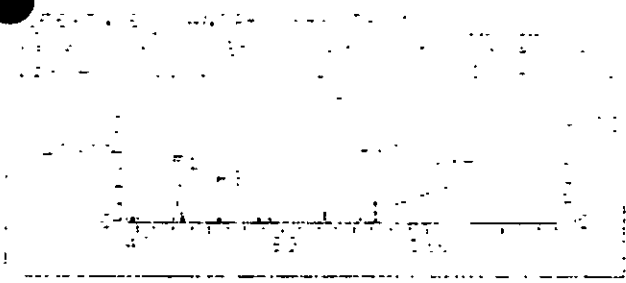
File #F2919 105.7-108.7



Date's File: >F2919::06 *3/10/81*
 Name: BALS 10135-1 *5ULX1000LX*
 Misc: U6, CH05, 5UL MEDIS, 4.07G 101191, UCC-SB-B-1A-3 *KE*
 Quant Time: 911012 05:51
 Injected at: 911012 05:23
 Last Qcal Time: 911011 21:51

Quant Output File: #F2919::07
 Instrument ID: 206
 Quant ID File: MOB106::MT
 Last Calibration: 910814 09:37

Compound No : 40
 Compound Name : C240 Ethylbenzene
 Scan Number : 1266
 Retention Time: 16.74 min.
 Quant Ion : 106.0
 Area : 11670
 Concentration : 2.82 UG/L
 q-value : 99



Data File: #F2919::06 *10/2/95* Quant Output File: #F2919::07
 Name: BALB 10135-18 *5UL x 100.5L x* Instrument ID: 206
 Misc: U6, CH05, 5UL MEDIS, 4.076 101191, UCC-SB-B-17-3 *#10-30-71*
 Quant Time: 911012 05:51 Quant ID File: MOBID6::MT
 Injected at: 911012 05:23 Last Calibration: 910814 09:37
 Last Qual Time: 911011 21:51

Compound No : 49
 Compound Name : C250 Xylenes (total)
 Scan Number : 1400
 Retention Time: 18.30 min.
 Quant Ion : 106.0
 Area : 52216
 Concentration : 11.06 UG/L
 q-value : 99

Date: 10/12/91
 Analyst: JE
 Sample: 10138

Sample: 10138 S 3214146 100ul x
 Conditions: MSD CHN, MSD MS(9), 4.075 101
 Analyst: MSD/CHN

122

Concentration
In Sample

#	Scan	Q	C	UG/MG	CAS #	Compound
1	1625.			0000. 4355	541-87-8	2-Heptanone, 5-methyl <i>unknown ketone</i>
2	1690.			27000. 2167	<u>124-18-5</u>	<u>Decane</u> <i>unknown alkane</i>
3	1721.			150000. 2267	815-24-7	3-Pentanone, 2,2,4,4-tetramethyl- <i>known</i>
4	1776.			22000. 351.4	526-73-8	Benzene, 1,2,3-trimethyl <i>C₉H₁₂ Isomer</i>
5	1814.			10000. 288.4	6137-06-0	2-Heptanone, 4-methyl- <i>unknown</i>
6	1990.			13000. 667.8	1258-88-9	Benzene, 2-ethyl-1,4-dimethyl <i>C₁₀H₁₄ Isomer</i> <i>Cy-benzene Isomer</i>

JE
 10/12/91

CONCENTRATION - AREA OF ...

			Int.					1961.	HS ANALYZED
1	27	0	3	20.93	1.285	887149.	117140.	12.298	
2	26	0	3	21.10	1.377	107771.	71882.	11.817	
3	24	2	3	20.95	1.783	1403177.	176879.	46.427	
4	24	26	3	21.69	1.393	218471.	24629.	8.788	
5	28	40	3	23.13	1.420	179454.	21977.	7.216	
6	21	10	3	26.18	1.546	136176.	12496.	5.474	

File Name:

Minimum PIC peak area as % of total PIC area: 10.0
Maximum PIC peak area as % of total PIC area: 100.0

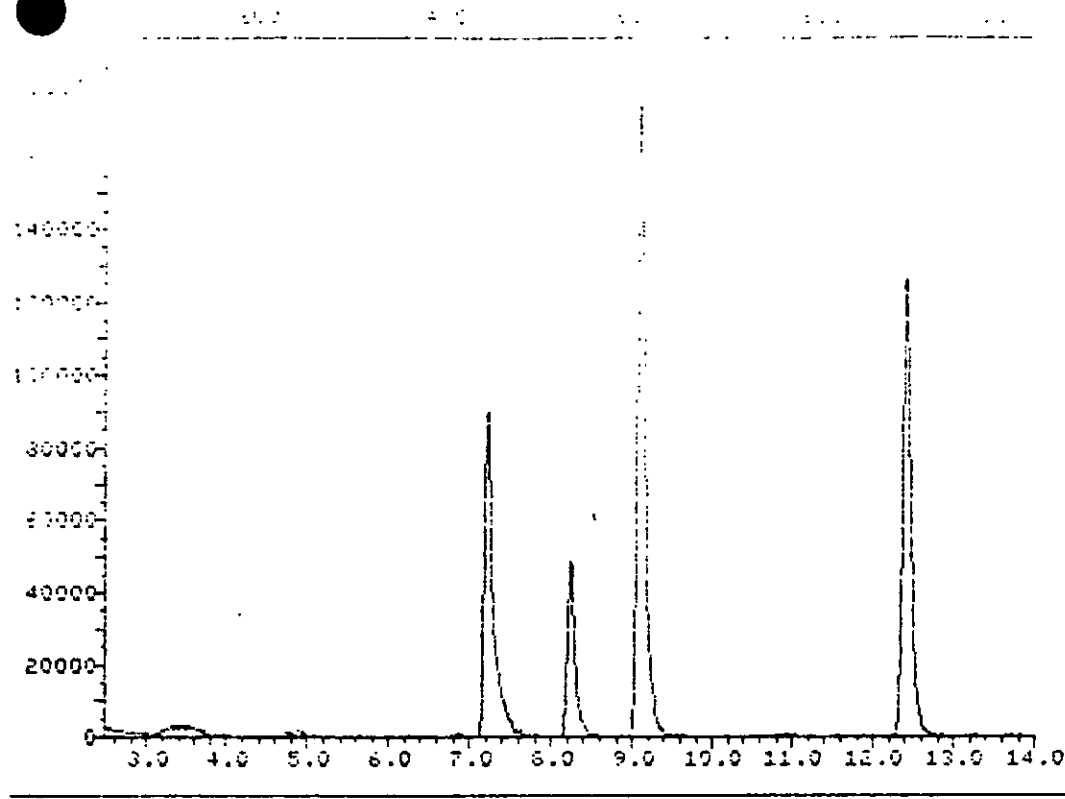
#	Name	Concentration	Flag		
RT	Area	Ratio	PIC Area	PIC Area	% Total
1	0101 Bromochloroethane	50.000 US/L	OK		
448.	95535.	6.987	448.	682409.	102.124
2	0110 1,4-Difluorobenzene	50.000 US/L	OK		
609.	526760.	2.300	609.	1212562.	100.994
3	0120 05-Chlorobenzene	50.000 US/L	OK		
1227.	411730.	3.615	1227.	1243365.	83.542

Deleting peaks from INT file: UDIR87
Minimum area: 10 % of area of closest Int. Std.
Number of peaks: 15
Number of peaks remaining: 14

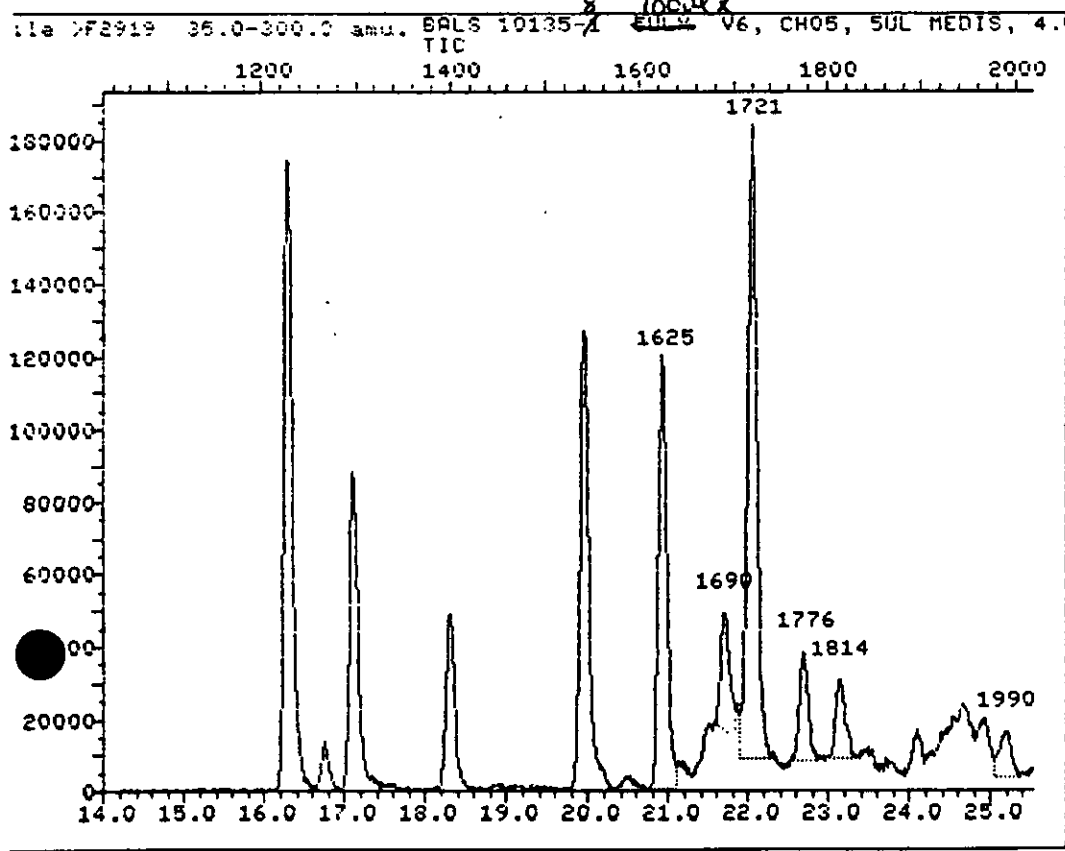
Deleting target compounds from INT file: UDIR87
Minimum separation of TIC and target: 5.
Maximum fraction of PIC peak from targets: 40. %
Number of peaks: 14
Number of peaks remaining: 6

Deleting all but largest peaks from INT file: UDIR87
Maximum number of peaks to keep: 15
Number of peaks: 6
Maximum number of peaks > number of peaks.

5 21/12/91
100 u x



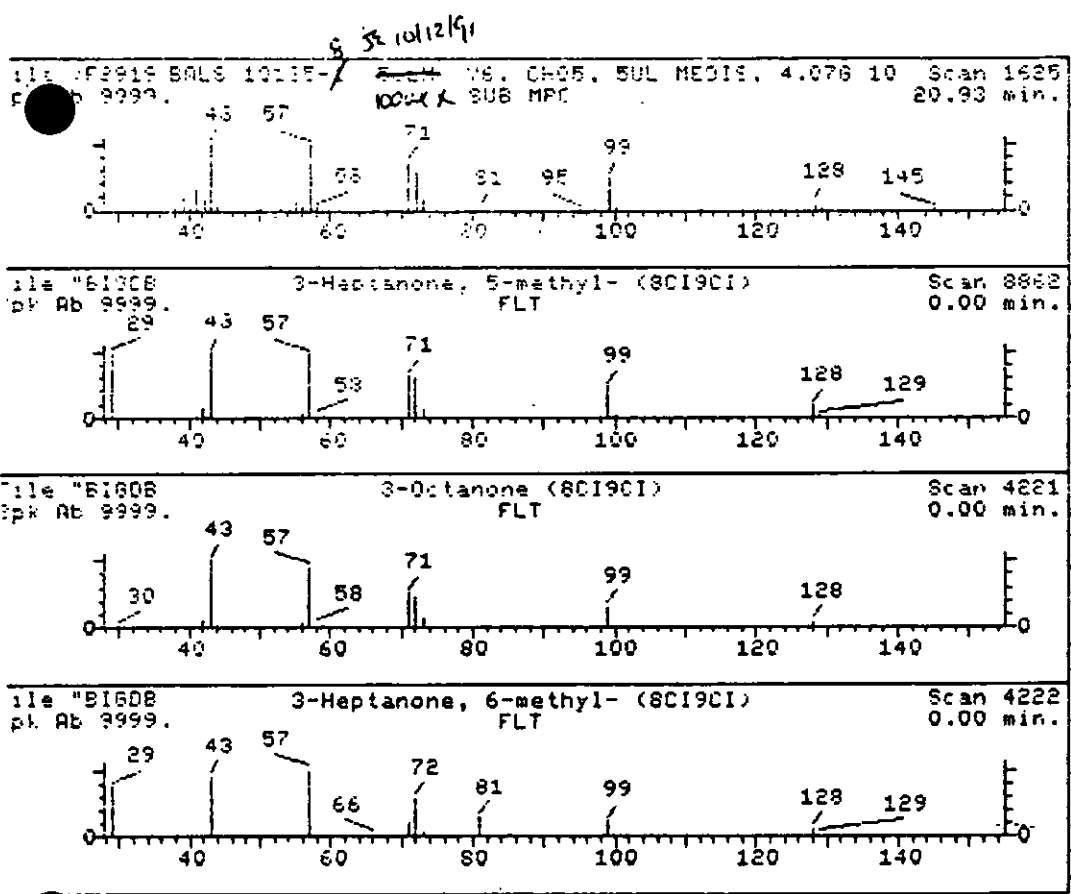
5 21/12/91
100 u x



000113

Sample File: 1-9-99 spectrum #: 1024
 Search speed: 2 Tailing option: 5 No. of ion ranges searched: 4

Peak	Rel. Int.	Ref. #	Comp. #	Root	K	OK	#PLG	TILT	%	CON	CLI	PLI
1.	87*	541855	3362	"BIGDB	62	45	2	0	71	9	53	40
2.	86*	106697	4021	"BIGDB	72	27	1	0	100	7	59	71
3.	60*	624420	4222	"BIGDB	41	62	3	0	98	14	30	13
4.	40*	6137128	3990	"BIGDB	44	55	3	0	78	25	17	13
5.	30*	3195786	8739	"BIGDB	32	64	3	0	89	32	12	13
6.	25*	5405798	3989	"BIGDB	25	60	3	0	98	42	8	13



unknown
 Ketone
 JE 10/12/91

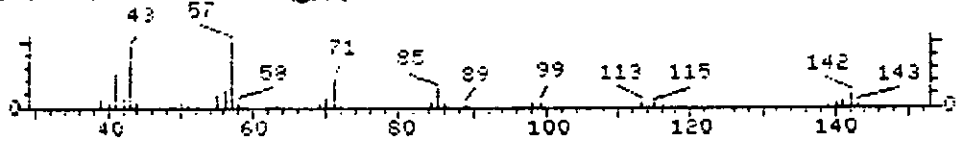
- 1. Decane, 3,3-dimethyl- (8CI9CI)
- 2. Decane, 3-methyl- (8CI9CI)
- 3. Decane, 3,3-dimethyl- (8CI9CI)
- 4. Decane, 3-methyl- (8CI9CI)
- 5. Decane, 2,3,5-trimethyl- (9CI)
- 6. Decane, 2,3,5-trimethyl- (9CI)

10/12/91
 114 111629
 134 013912

Sample File: 160919 Spectrum #: 1690
 Search speed: 2 Tilting option: S No. of ion ranges searched: 1

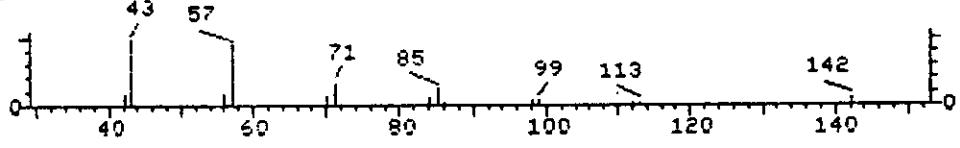
Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	P_IV	
1.	75*	124185	16061	"BIGDB	67	33	1	0	92	17	35	66
2.	53	563166	5991	"BIGDB	55	35	0	0	74	28	24	33
3.	48	1002433	6148	"BIGDB	54	34	2	0	81	21	17	19
4.	43	17312559	11149	"BIGDB	48	44	2	0	72	23	17	14
5.	39	62238124	6165	"BIGDB	65	43	1	1	61	30	14	16
6.	36	62238113	6164	"BIGDB	65	38	1	1	73	32	12	19

8/10/12/91 SZ
 File: F2913 BALS 10135-1 ELEM: VS, CH35, SUL MEDIS, 4.075 10 Scan 1690
 pk Ab 9449. SUB MPC 21.68 min.



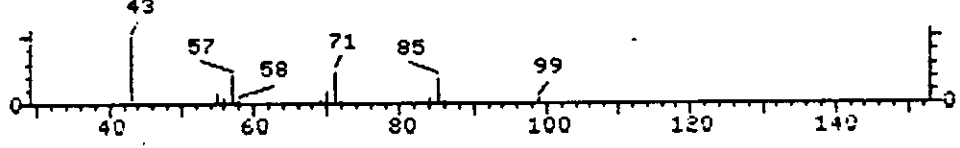
~~unknown alkane~~

File "BIGDB Decane (8CI9CI) Scan 16061
 pk Ab 9999. FLT 0.00 min.

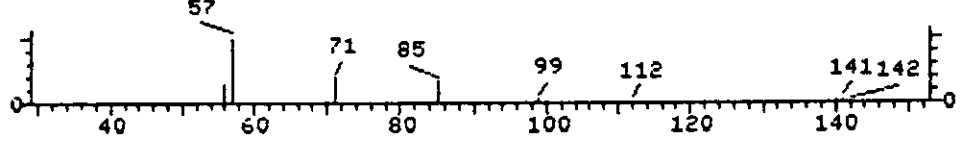


8/10/12/91

File "BIGDB Hexane, 3,3-dimethyl- (8CI9CI) Scan 5991
 pk Ab 9999. FLT 0.00 min.



File "BIGDB Undecane, 3-methyl- (8CI9CI) Scan 6148
 pk Ab 9999. FLT 0.00 min.

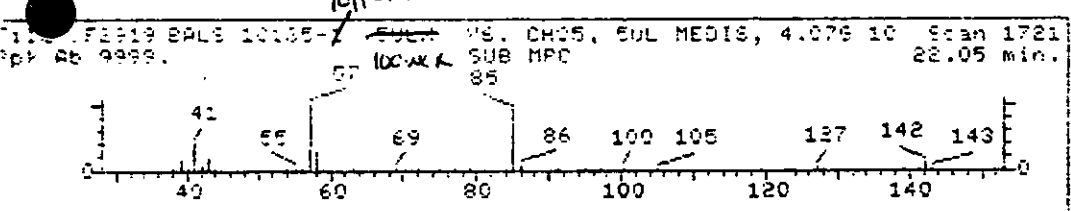


- 1. 1,4-Dioxane (801901)
- 2. 4-Octanone (801901)
- 3. Isothiazole (801901)

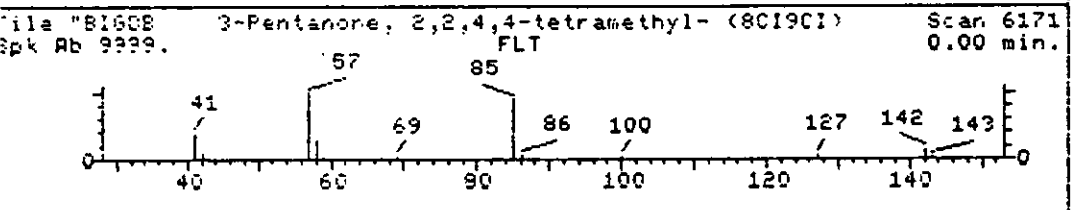
1. 1,4-Dioxane (801901)
 2. 4-Octanone (801901)
 3. Isothiazole (801901)

Search file: 801901 Spectrum #: 1721
 Search speed: 2 Filtering option: 5 No. of ion ranges searched: 12

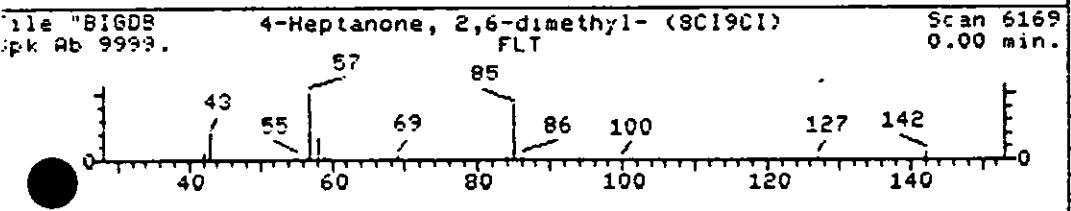
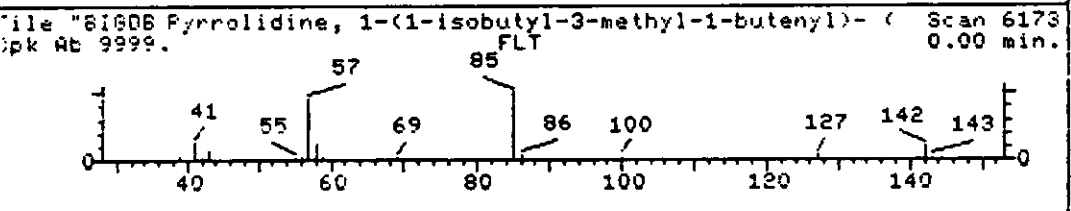
Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	P_IV	
1.	95*	815247	6171	"BIGDB	79	14	0	0	78	2	72	95
2.	88	3494040	6173	"BIGDB	90	5	1	3	84	2	65	50
3.	86*	108838	6169	"BIGDB	55	44	2	0	79	3	60	32
4.	52*	4418615	5	"BIGDB	21	104	2	0	100	19	20	13
5.	50*	7492388	6174	"BIGDB	42	50	2	0	69	21	22	22
6.	25*	288164	5907	"BIGDB	21	34	2	0	69	50	7	13



Handwritten: unknown



Handwritten: JR 10/12/91

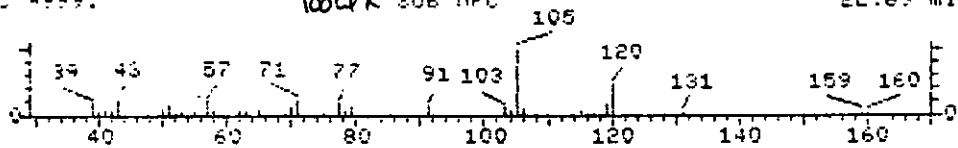


- 1. Benzene, 1,2,3-trimethyl- (8CI9CI)
- 2. Benzene, 1,2,4-trimethyl- (8CI9CI)
- 3. Benzene, 1,3,5-trimethyl- (9CI)
- 4. Benzene, 1,2,3-trimethyl- (8CI9CI)
- 5. Benzene, 1,2,4-trimethyl- (8CI9CI)
- 6. Benzene, 1,3,5-trimethyl- (9CI)

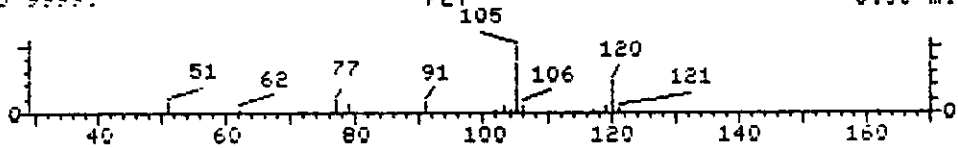
Sample file: 100910 Spectrum #: 1776
 Search speed: 2 Tilting option: 3 No. of ion ranges searched: 45

	Pct.	CAS #	CON #	ROOT	k	OK	#FLG	TILT	%	CON	C_I	R_I
1.	75*	526738	12280	"BIGDB	80	20	2	0	85	20	35	65
2.	64*	95636	12273	"BIGDB	65	30	2	0	77	22	28	49
3.	63*	108678	12275	"BIGDB	57	31	2	3	86	16	30	35
4.	50*	620144	12267	"BIGDB	53	34	2	0	100	25	27	36
5.	42*	3141024	12286	"BIGDB	44	60	3	0	77	22	17	13
6.	41*	98828	12259	"BIGDB	48	39	2	0	100	37	14	28

100910 S 3/10/91
 100910 SALS 10135-7 VS. CH05. SUL MEDIS, 4.076 10 Scan 1776
 22.69 min.

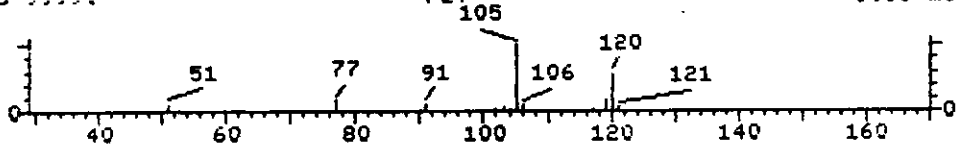


file "BIGDB Benzene, 1,2,3-trimethyl- (8CI9CI) Scan 12280
 pk Ab 9999. FLT 0.00 min.

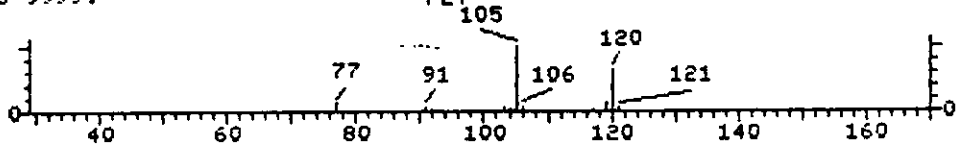


C9H12 Isomer
JE 10/12/91

file "BIGDB Benzene, 1,2,4-trimethyl- (8CI9CI) Scan 12273
 pk Ab 9999. FLT 0.00 min.



file "BIGDB Benzene, 1,3,5-trimethyl- (9CI) Scan 12275
 pk Ab 9999. FLT 0.00 min.



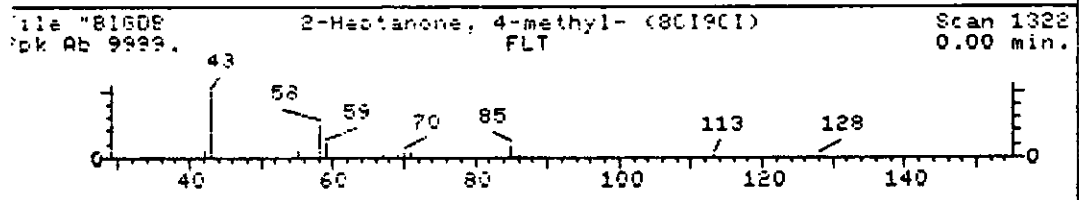
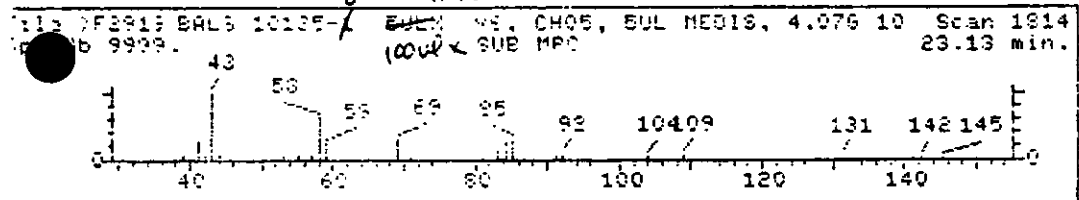
4. Heptane, 2,3-dimethyl- (80190)
 5. Octane, 3,4-dimethyl- (80191)

113
 114
 115
 116
 117

Sample File: 950919 Spectrum #: 1814
 Search speed: 2 Filtering option: 8 No. of ion ranges searched: 1

Prob.	CHS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	28*	6137060	1322	"BIGDB	27	60	2	0	100	40	10
2.	20*	75903	1250	"BIGDB	26	56	2	0	60	51	5
3.	15*	1626091	5730	"BIGDB	23	61	2	0	100	59	3
4.	11*	3074713	5924	"BIGDB	29	62	2	0	94	65	2
5.	11*	15869928	5929	"BIGDB	27	61	3	0	100	63	2

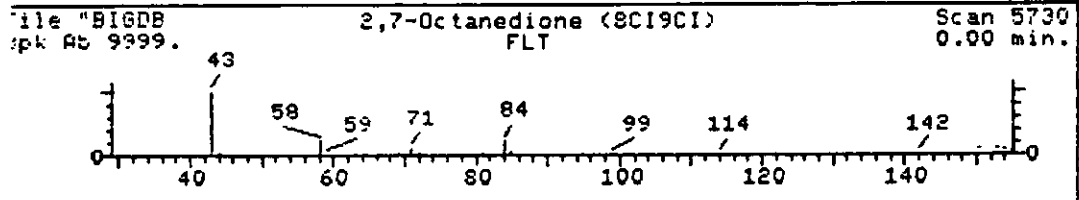
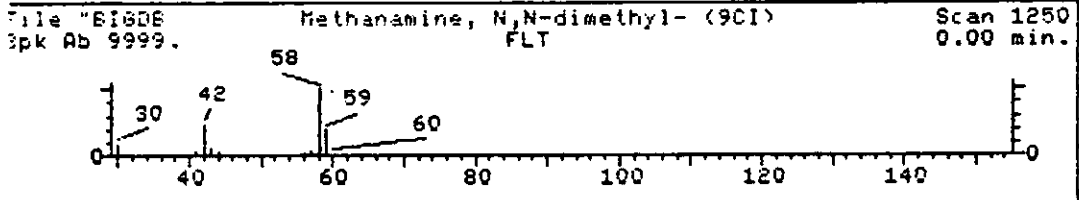
8 10/12/91



unknown

SR

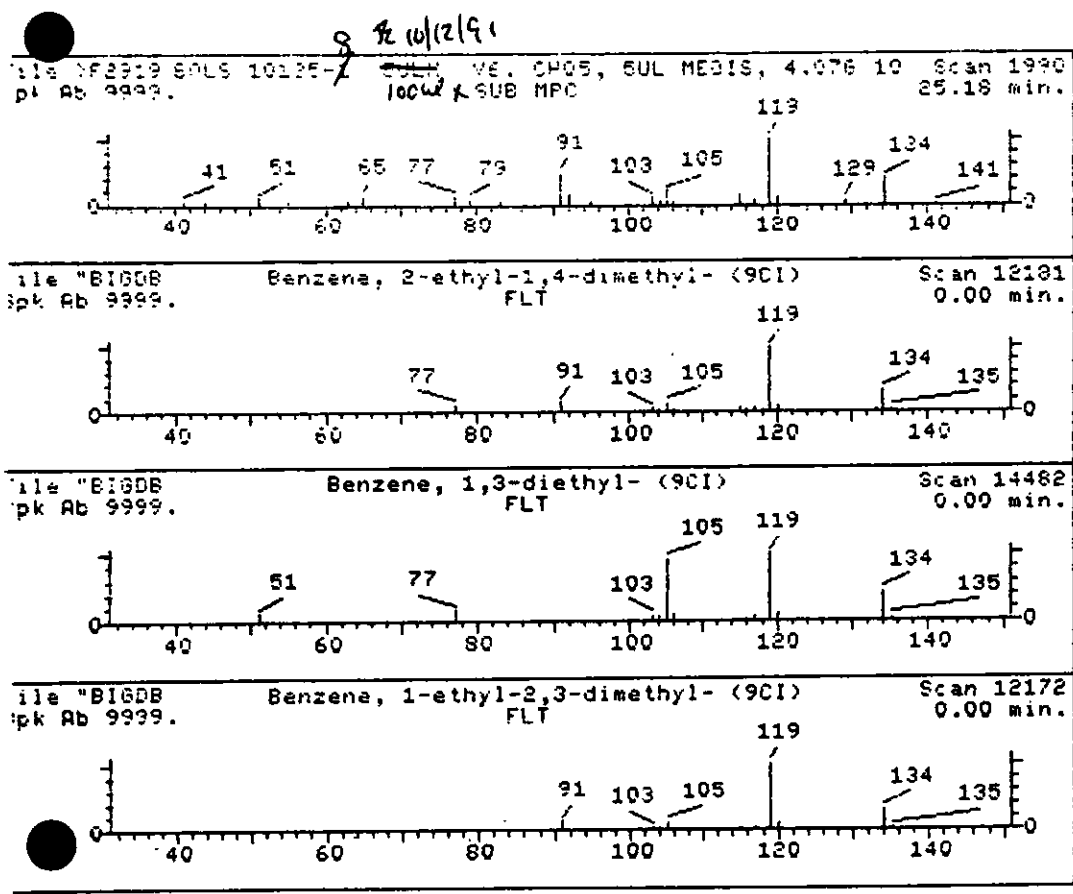
10/12/91



1. Benzene, 1-ethyl-2,3-dimethyl- (9CI)
 2. Benzene, 1-ethyl-2,4-dimethyl- (9CI)
 3. Benzene, 1-ethyl-2,5-dimethyl- (9CI)
 4. Benzene, 1-ethyl-3,4-dimethyl- (9CI)
 5. Benzene, 1-ethyl-3,5-dimethyl- (9CI)
 6. Benzene, 1-ethyl-1,4-dimethylethyl- (9CI)

Sample file: 9999 Spectrum #: 1990
 Search speed: 2 Tilting option: B No. of ion ranges searched: 4

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	P_IV	
1.	81*	1758889	12181	"BIGDB	61	33	2	2	97	10	53	40
2.	60*	141936	14482	"BIGDB	57	45	3	-1	87	12	30	13
3.	52*	933982	12172	"BIGDB	36	55	2	0	100	19	20	18
4.	52*	934805	12173	"BIGDB	36	57	2	0	100	17	20	17
5.	52*	934747	12180	"BIGDB	37	58	2	0	100	19	20	16
6.	50*	99876	12178	"BIGDB	49	56	2	0	71	25	22	22



Cy-benzene
 R 10-21-91
 C10 H14 Isomer
 32 10/12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-4-QA1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 10135-09

Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 0.80

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
110-75-8	-----2-Chloroethylvinylether	10	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-4-QA1

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 10135-09
Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835
Level: (low/med) LOW Date Received: 10/05/91
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

L 100991 VBA

R 100991 VBA

JJB

Sample: 100991
 Date: 10/24/01
 Target Compound: MOBID6

Meciz

Sample: BALSAM 10178-9
 Method: MS CH#15 PULIS 10# QCC-1024-041
 Detected: 10/24/01 15:34
 Analyst: LIZ
 File: MOBID6
 Quant List threshold: 1.00

Units: US L
 Fun Factor: 1.000
 Surrogate dil: 1.005

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QL limits
IS15 D4-1,2-dichloroethane	.2500	.2603	104	76 114
IS05 D8-Toluene	.2500	.2369	94.8	88 110
IS10 Bromofluorobenzene	.2500	.2591	104	86 115

Target Compounds: MOBID6

NO UNKNOWN

JJB
100991

Scan #	Concentration Quant List UG/L	Sample UG/L	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
257	3.133	3.1	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

000122

Scan #	Concentration Quant. (ug)	Sample UG/L	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

*** Report generated by ***
 Date: 11/11/04
 File: MSB1601177 Calibrated: 09/07/2004 01

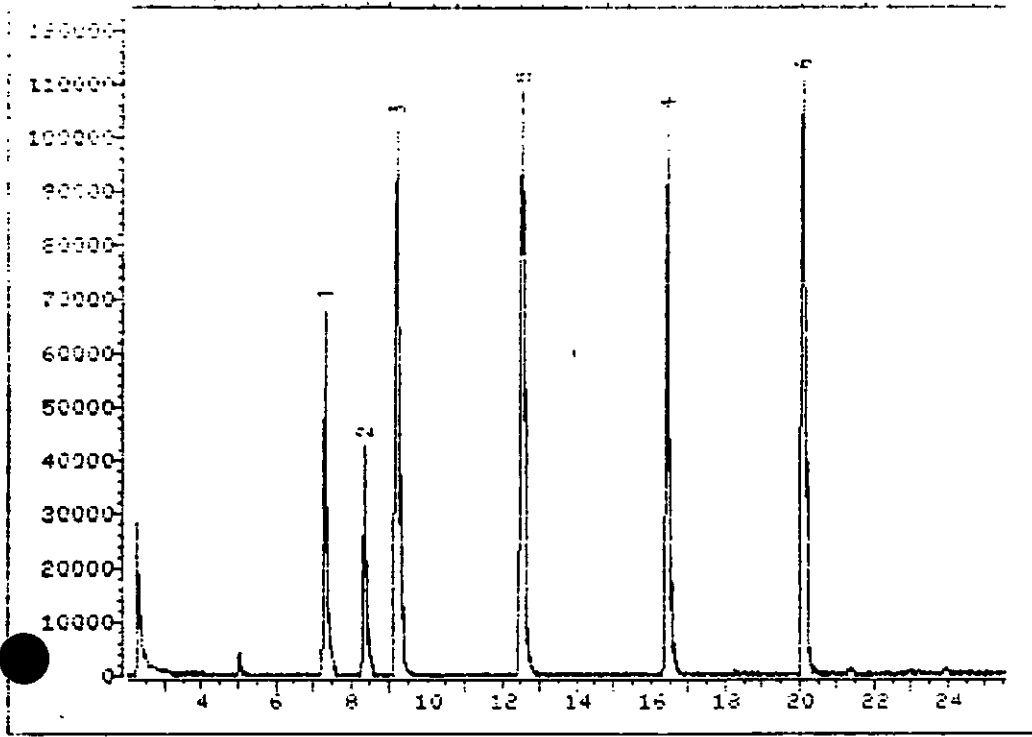
		- R.T. Into -						
Compound		Peak	Found	Off	Ion	Area	%	Cond.
1) *C101	Bromochloromethane	7.37	7.39	.03	128.0	57218	1.0000	51.01
2) C010	Chloromethane	2.20	0.00	--	59.0	0	1.3234	0.00
3) C030	Vinyl Chloride	2.86	0.00	--	62.0	0	1.3500	0.00
4) C015	Bromomethane	3.27	0.00	--	94.0	0	1.2155	0.00
5) C025	Chloroethane	3.39	0.00	--	64.0	0	.5022	0.00
6) C045	1,1-Dichloroethene	4.37	0.00	--	96.0	0	1.5071	0.00
7) C035	Acetone	4.43	0.00	--	43.0	0	.1843	0.00
8) C040	Carbon Disulfide	4.67	0.00	--	76.0	0	4.4340	0.00
9) C030	Methylene Chloride	5.01	5.00	.01	84.0	6455	1.7999	3.13
10) CXXX	Tert-butyl alcohol	5.15	0.00	--	59.0	0	.0770	0.00
11) C053	Trans-1,2-dichloroet	5.39	0.00	--	96.0	0	1.8441	0.00
12) C055	Cis-1,2-dichloroethe	6.91	0.00	--	96.0	0	1.9832	0.00
13) CXXX	Methyl tert-butyl et	5.39	0.00	--	73.0	0	3.1722	0.00
14) C050	1,1-Dichloroethane	6.01	0.00	--	63.0	0	3.5329	0.00
15) C060	Chloroform	7.46	0.00	--	83.0	0	3.7902	0.00
16) C065	1,2-Dichloroethane	8.48	0.00	--	62.0	0	2.1737	0.00
17) C110	2-Butanone	6.93	0.00	--	72.0	0	.1091	0.00
18) C015	04-1,2-dichloroethan	8.34	8.33	.01	65.0	93600	1.5708	52.05
19) *C110	1,4-Difluorobenzene	9.23	9.19	.04	114.0	296011	1.0000	50.00
20) C125	Vinyl Acetate	6.07	0.00	--	43.0	0	.6048	0.00
21) C115	1,1,1-Trichloroethan	7.76	0.00	--	97.0	0	.5974	0.00
22) C120	Carbon Tetrachloride	8.07	0.00	--	117.0	0	.4898	0.00
23) C165	Benzene	8.45	0.00	--	78.0	0	.9908	0.00
24) C150	Trichloroethene	9.71	0.00	--	130.0	0	.4258	0.00
25) C140	1,2-Dichloropropane	10.19	0.00	--	63.0	0	.4057	0.00
26) C130	Bromodichloromethane	10.82	0.00	--	83.0	0	.6001	0.00
27) C175	2-Chloroethylvinylet	11.53	0.00	--	63.0	0	.1776	0.00
28) C143	Cis-1,3-Dichloroprop	11.86	0.00	--	75.0	0	.5829	0.00
29) C172	Trans-1,3-dichloropr	13.25	0.00	--	75.0	0	.4482	0.00
30) C160	1,1,2-Trichloroethan	13.73	0.00	--	97.0	0	.2952	0.00
31) C155	Dibromochloromethane	14.76	0.00	--	129.0	0	.4676	0.00
32) C180	Bromoform	18.92	0.00	--	173.0	0	.2627	0.00
33) *C120	D5-Chlorobenzene	16.44	16.42	.02	117.0	238246	1.0000	50.00
34) C005	D8-Toluene	12.53	12.52	.01	98.0	293076	1.2981	47.38
35) C205	4-Methyl-2-pentanone	12.29	0.00	--	43.0	0	.3240	0.00
36) C230	Toluene	12.69	0.00	--	92.0	0	.9048	0.00
37) C210	2-Hexanone	14.49	0.00	--	43.0	0	.2131	0.00
38) C220	Tetrachloroethene	14.11	0.00	--	164.0	0	.4676	0.00
39) C235	Chlorobenzene	16.49	0.00	--	112.0	0	1.0869	0.00
40) C240	Ethylbenzene	16.87	0.00	--	106.0	0	.5461	0.00
41) CXXX	Xylenes (p)	17.24	0.00	--	106.0	0	.6696	0.00
42) CXXX	Xylenes (o)	18.43	0.00	--	106.0	0	.6363	0.00
43) C245	Styrene	18.48	0.00	--	104.0	0	1.1149	0.00
44) C225	1,1,2,2-Tetrachloroe	20.64	0.00	--	83.0	0	.5730	0.00
45) C010	Bromofluorobenzene	20.06	20.09	.03	95.0	176177	.7136	51.81
46) C335	Dichlorobenzene (m)	23.61	0.00	--	146.0	0	.9778	0.00
47) C340	Dichlorobenzene (p)	23.92	0.00	--	146.0	0	.8417	0.00
48) C350	Dichlorobenzene (o)	25.14	0.00	--	146.0	0	.8417	0.00

000124

Sample Name: 1001 Date: 10/10/88 Operator: J.P. Smith

Internal Standard	Sample Area	Std Area	%
101 Bromonitromethane	67238	75510	88.8
110 1,4-Dichlorobenzene	396011	401253	98.7
110 1,2-Dichlorobenzene	338246	308421	109.7

% = (Sample Area/Std Area)*100
* Area outside limits



Data File: >F2835::D6 Quant Output File: ^F2835::D7
Name: BALSAM 10135-9 5ML Instrument ID: U6
Misc: U6 CH#15 5ULIS ID# UCC-10/4-QA1

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911009 10:28

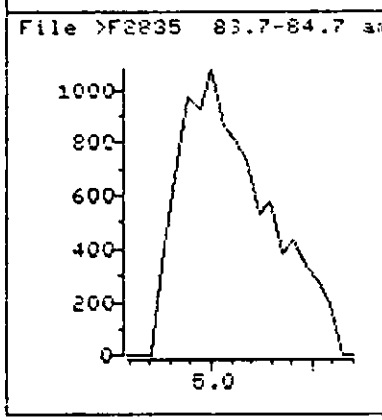
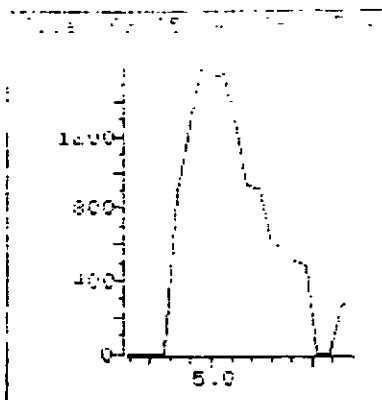
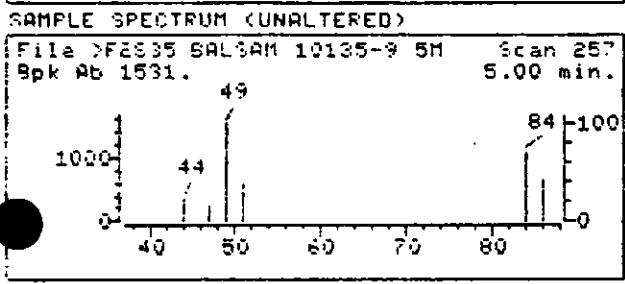
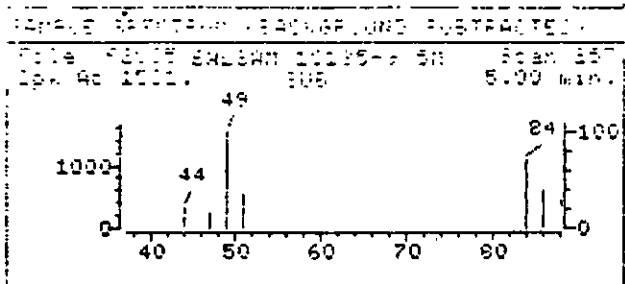
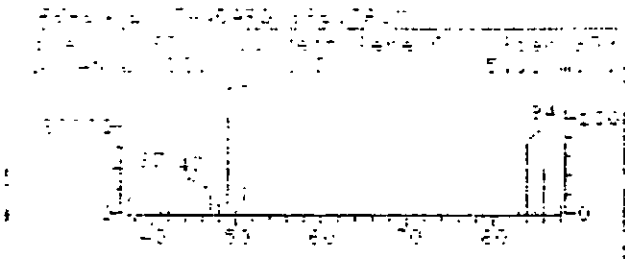
Operator ID: LIZ
Quant Time : 911009 16:01
Injected at: 911009 15:34

Method: 10102
 Input File: 910814-01
 Data File: 910814-01
 Name: 910814-01
 Date: 910814 10:25
 Trace: 06 CH#15 FID15 10# 100-1014-01

C File: N/A
 Title: HSL VOLATILES: 25%
 Last Calibration: 910814 09:37
 Instrument ID: 06
 Dilution Factor: 1.00000
 Last Qual Time: 911009 10:25

Compound	R.T.	Q Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.30	128.0	57238	50.00	UG/L	67
9) C030 Methylene Chloride	9.00	84.0	6455	3.13	UG/L	93
18) CS15 D4-1,2-dichloroethane	8.33	65.0	93600	52.05	UG/L	86
19) *CI10 1,4-Difluorobenzene	9.19	114.0	296011	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.42	117.0	238246	50.00	UG/L	100
34) CS05 D8-Toluene	12.52	98.0	293076	47.38	UG/L	94
CS10 Bromofluorobenzene	20.09	95.0	176177	51.81	UG/L	67

* Compound 13 ISTD



Data File: >F2835::06
 Name: BALSAM 10135-9 5ML
 Misc: U6 CH#15 SULIS ID# UCC-10/4-QA1
 Quant Time: 911009 16:01
 Injected at: 911009 15:34
 Last Qcal Time: 911009 10:28

Quant Output File: ^F2835::07
 Instrument ID: U6
 Quant ID File: MOBID6::MT
 Last Calibration: 910814 09:37

Compound No : 9
 Compound Name : C030 Methylene Chloride
 Scan Number : 257
 Retention Time: 5.00 min.
 Quant Ion : 84.0
 Area : 6455
 Concentration : 3.13 UG/L
 q-value : 93

10011
10011

Sample: BALSAM 10.7549 9ML Run Date: 10/11/01
Conditions: MS Chem 4.119 10# UFC-10 4-00-01 Analyst: L12

Concentration
in Sample

#	Scan	Q	C	100%	C	CAS #	Compound
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NO UNKNOWN

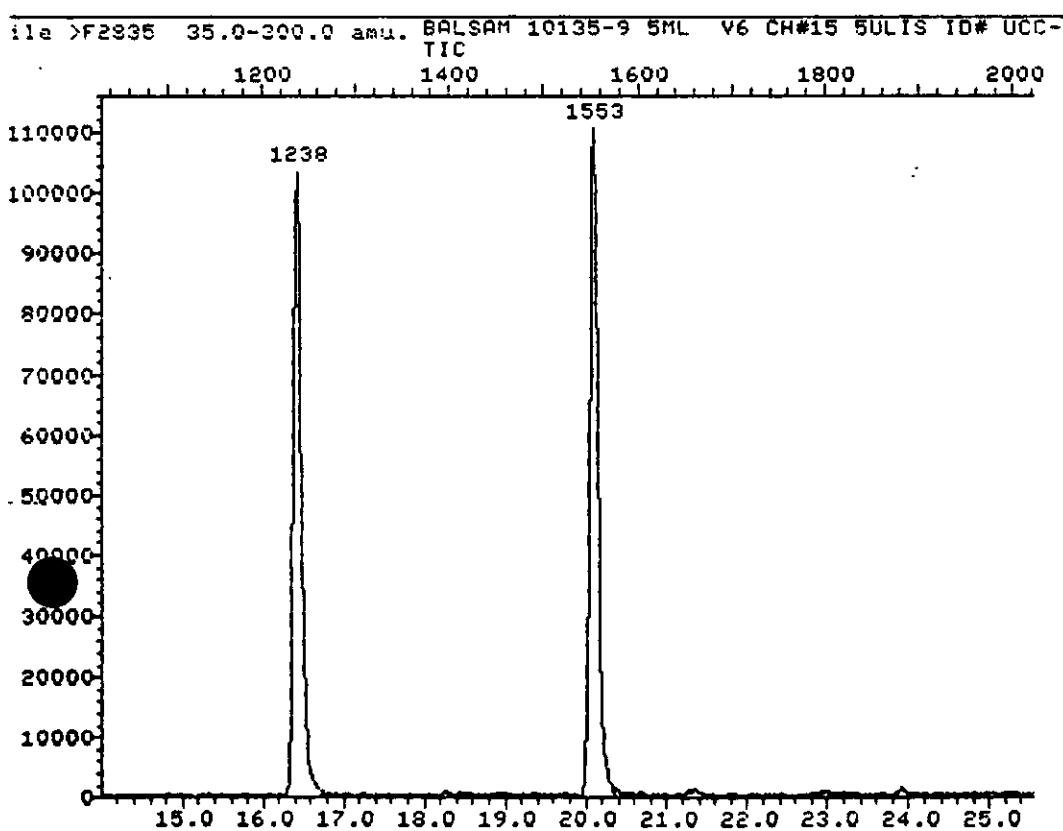
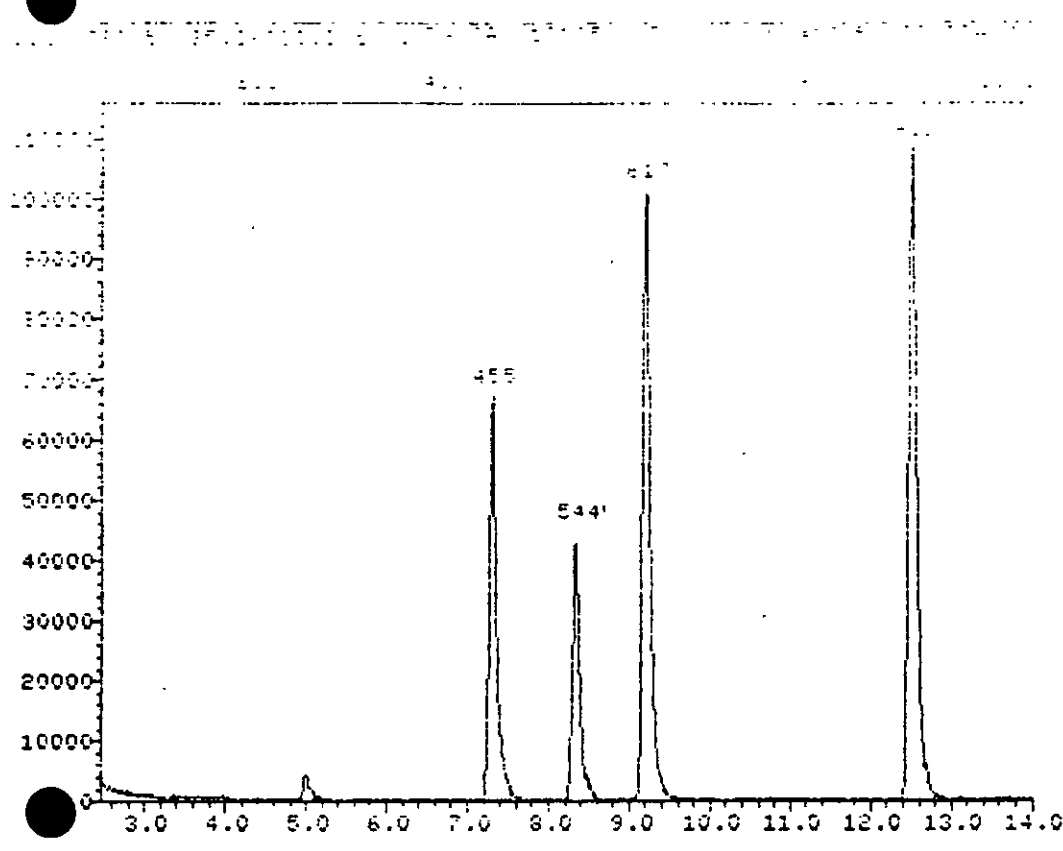
200 100 10000

Element 100 10000 10000

Concentration = Area/TIC + Conc. (3) Area (3)

# Prod.	Cont.	Std.	Int.	RT	PRT	Area	Height	Conc. As Analyzed UG/L
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000130



000131

Minimum separation of RIC and Over lap peaks: 3.
 Minimum RIC peak area as % of est. RIC area: 50.
 Minimum RIC peak area as % of est. RIC area: 200.

#	Name	Concentration	Flag		
Q scan	Q area	QRatio	RIC scan	RIC area	% Est. RIC
1	CI01 Bromochlorometh	50.000 UG/L	Ok		
455.	57239.	6.987	455.	406290.	101.590
2	CI10 1,4-Difluoroben	50.000 UG/L	Ok		
617.	296011.	2.300	617.	667273.	98.020
3	CI20 D5-Chlorobenzen	50.000 UG/L	Ok		
1238.	238246.	3.615	1238.	736642.	85.536

Deleting peaks from INT file: VDIR87
 Minimum area: 10 % of area of closest Int. Std.
 Number of peaks: 6
 Number of peaks remaining: 6

Deleting target compounds from INT file: VDIR87
 Minimum separation of TIC and target: 5.
 Maximum fraction of RIC peak from targets: 40. %
 Number of peaks: 6
 Number of peaks remaining: 0

Deleting all but largest peaks from INT file: VDIR87
 Maximum number of peaks to keep: 15
 Number of peaks: 0
 Maximum number of peaks > number of peaks.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V1 Calibration Date(s): 08/29/91 08/29/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min \overline{RRF} for SPCC(%) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: _____ RRF20 = A2832 RRF50 = A2831
 RRF100 = A2834 RRF150 = A2835 RRF200 = A2836

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	\overline{RRF}	% RSD
Chloromethane	1.002	0.999	0.848	0.994	0.899	0.948	7.5#
Bromomethane	1.031	0.786	0.935	0.853	0.643	0.850	17.3
Vinyl Chloride	* 1.190	1.226	1.083	1.288	1.140	1.185	6.6*
Chloroethane	0.796	0.752	0.685	0.814	0.622	0.734	10.9
Methylene Chloride	1.713	1.622	1.422	1.782	1.622	1.632	8.3
Acetone	0.431	0.413	0.346	0.400	0.379	0.394	8.3
Carbon Disulfide	4.325	4.091	3.995	4.979	4.670	4.412	9.3
1,1-Dichloroethene	* 1.233	1.125	1.172	1.346	1.182	1.212	7.0*
1,1-Dichloroethane	# 3.159	2.934	2.895	3.221	2.988	3.039	4.7#
1,2-Dichloroethene (total)	1.606	1.535	1.470	1.678	1.452	1.548	6.1
Bromoform	* 3.629	3.420	3.614	3.962	3.568	3.639	5.5*
1,2-Dichloroethane	2.616	2.446	2.430	2.719	2.452	2.533	5.1
2-Butanone	0.201	0.192	0.168	0.180	0.170	0.182	7.8
1,1,1-Trichloroethane	0.623	0.563	0.548	0.631	0.600	0.593	6.1
Carbon Tetrachloride	0.581	0.522	0.523	0.577	0.556	0.552	5.1
Vinyl Acetate	0.580	0.594	0.540	0.535	0.532	0.556	5.2
Bromodichloromethane	0.627	0.593	0.575	0.640	0.607	0.608	4.3
1,2-Dichloropropane	* 0.446	0.429	0.387	0.426	0.399	0.417	5.7*
cis-1,3-Dichloropropene	0.680	0.640	0.594	0.665	0.639	0.644	5.1
Trichloroethene	0.520	0.466	0.419	0.464	0.425	0.459	8.8
Dibromochloromethane	0.609	0.590	0.570	0.617	0.581	0.593	3.3
1,1,2-Trichloroethane	0.399	0.374	0.342	0.364	0.348	0.365	6.2
Benzene	1.248	1.129	0.994	1.085	1.066	1.104	8.5
trans-1,3-Dichloropropene	0.593	0.575	0.554	0.608	0.587	0.583	3.5
2-Chloroethylvinylether	0.269	0.246	0.238	0.253	0.248	0.251	4.6
Bromoform	# 0.517	0.499	0.487	0.520	0.489	0.502	3.1#
4-Methyl-2-Pentanone	0.494	0.487	0.440	0.485	0.469	0.475	4.5
2-Hexanone	0.353	0.342	0.312	0.338	0.334	0.336	4.5
Tetrachloroethene	0.574	0.512	0.469	0.516	0.471	0.508	8.4
1,1,2,2-Tetrachloroethane	# 0.718	0.690	0.654	0.705	0.673	0.688	3.7#
Toluene	* 0.934	0.871	0.790	0.897	0.857	0.870	6.1*
Chlorobenzene	# 1.252	1.149	1.055	1.187	1.128	1.154	6.3#
Ethylbenzene	* 0.612	0.561	0.515	0.577	0.537	0.560	6.6*
Styrene	1.211	1.124	1.010	1.143	1.101	1.118	6.5
Xylene (total)	0.692	0.648	0.582	0.634	0.605	0.632	6.7
Toluene-d8	1.474	1.244	1.242	1.225	1.264	1.290	8.1
Bromofluorobenzene	0.680	0.578	0.593	0.563	0.568	0.596	8.1
1,2-Dichloroethane-d4	2.066	1.610	1.852	1.857	1.841	1.845	8.8

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V2 Calibration Date(s): 10/11/91 10/12/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min \overline{RRF} for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: _____ RRF20 = B2952 RRF50 = B2951
 RRF100 = B2955 RRF150 = B2956 RRF200 = B2959

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	\overline{RRF}	% RSD
Chloromethane	0.692	0.412	0.469	0.436	0.267	0.455	33.7#
Bromomethane	1.038	0.868	0.614	0.544	0.398	0.692	37.2
Vinyl Chloride	* 1.105	0.855	0.886	0.798	0.589	0.847	21.9*
Chloroethane	0.733	0.632	0.492	0.438	0.362	0.531	28.2
Methylene Chloride	2.143	2.182	1.952	1.908	0.389	1.715	43.8
Acetone	0.462	0.678	0.306	0.319	0.256	0.404	42.4
Carbon Disulfide	5.167	4.992	4.472	3.962	3.067	4.332	19.6
1,1-Dichloroethene	* 1.210	1.123	0.924	0.835	0.582	0.935	26.5*
1,1-Dichloroethane	* 3.537	3.638	3.285	3.068	3.042	3.314	8.1#
1,2-Dichloroethene (total)	1.912	1.889	1.785	1.637	1.627	1.770	7.6
Bromoform	* 3.441	3.547	3.212	3.004	3.098	3.260	7.0*
1,2-Dichloroethane	2.140	2.347	2.168	2.078	2.109	2.168	4.9
2-Butanone	1.010	1.136	0.915	0.937	1.080	1.016	9.2
1,1,1-Trichloroethane	0.536	0.451	0.445	0.448	0.384	0.453	12.0
Carbon Tetrachloride	0.490	0.417	0.425	0.425	0.375	0.426	9.7
Vinyl Acetate	0.777	0.979	0.921	0.949	0.732	0.872	12.6
Bromodichloromethane	0.623	0.588	0.582	0.583	0.554	0.586	4.2
1,2-Dichloropropane	* 0.460	0.426	0.438	0.450	0.429	0.441	3.2*
cis-1,3-Dichloropropene	0.592	0.618	0.638	0.623	0.594	0.613	3.2
Trichloroethene	0.482	0.417	0.417	0.417	0.385	0.424	8.4
Dibromochloromethane	0.433	0.455	0.448	0.453	0.443	0.446	2.0
1,1,2-Trichloroethane	0.324	0.329	0.320	0.324	0.332	0.326	1.4
Benzene	1.449	1.269	1.143	1.108	0.876	1.169	18.1
trans-1,3-Dichloropropene	0.435	0.478	0.486	0.464	0.495	0.472	5.0
2-Chloroethylvinylether	0.190	0.211	0.237	0.230	0.294	0.232	16.8
Bromoform	* 0.301	0.322	0.305	0.320	0.326	0.315	3.5#
4-Methyl-2-Pentanone	0.599	0.573	0.566	0.599	0.619	0.591	3.6
2-Hexanone	0.350	0.318	0.312	0.299	0.331	0.322	6.0
Tetrachloroethene	0.455	0.402	0.420	0.422	0.413	0.422	4.7
1,1,2,2-Tetrachloroethane	* 0.928	0.855	0.794	0.844	0.783	0.841	6.9#
Toluene	* 0.973	0.879	0.917	0.907	0.921	0.919	3.7*
Chlorobenzene	* 1.170	1.042	1.048	1.045	0.983	1.058	6.5#
Ethylbenzene	* 0.559	0.483	0.484	0.484	0.463	0.495	7.5*
Styrene	1.180	0.982	0.995	0.947	0.843	0.989	12.4
Xylene (total)	0.757	0.595	0.585	0.590	0.518	0.609	14.5
Toluene-d8	1.489	1.320	1.245	1.221	1.154	1.286	10.0
Bromofluorobenzene	0.672	0.611	0.584	0.564	0.552	0.597	8.0
1,2-Dichloroethane-d4	1.569	1.598	1.502	1.456	1.441	1.513	4.5

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration Date(s): 09/22/91 09/22/91

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min \overline{RRF} for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: _____ RRF20 = F2560 RRF50 = F2557
 RRF100 = F2561 RRF150 = F2562 RRF200 = F2563

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	\overline{RRF}	% RSD
Chloromethane	# 1.360	1.302	1.234	1.144	1.188	1.246	7.0#
Bromomethane	1.323	1.100	1.017	0.926	0.910	1.055	15.9
Vinyl Chloride	* 1.398	1.319	1.273	1.125	1.174	1.258	8.7*
Chloroethane	0.837	0.723	0.655	0.548	0.493	0.651	21.1
Methylene Chloride	1.893	1.654	1.705	1.638	1.630	1.704	6.4
Acetone	0.273	0.190	0.201	0.194	0.198	0.211	16.5
Carbon Disulfide	4.539	4.000	4.256	3.923	4.063	4.156	5.9
1,1-Dichloroethene	* 1.595	1.424	1.405	1.228	1.282	1.387	10.3*
1,1-Dichloroethane	# 3.661	3.124	3.257	3.095	3.113	3.250	7.3#
1,2-Dichloroethene (total)	1.930	1.710	1.750	1.626	1.621	1.727	7.3
Chloroform	* 4.209	3.700	3.841	3.747	3.790	3.857	5.3*
1,2-Dichloroethane	2.410	2.081	2.239	2.089	2.036	2.171	7.1
2-Butanone	0.105	0.113	0.120	0.109	0.107	0.111	5.3
1,1,1-Trichloroethane	0.606	0.559	0.557	0.539	0.538	0.560	4.9
Carbon Tetrachloride	0.513	0.482	0.477	0.456	0.468	0.479	4.5
Vinyl Acetate	0.537	0.604	0.532	0.531	0.487	0.538	7.8
Bromodichloromethane	0.644	0.581	0.613	0.634	0.638	0.622	4.1
1,2-Dichloropropane	* 0.421	0.404	0.401	0.405	0.403	0.407	2.0*
cis-1,3-Dichloropropene	0.604	0.569	0.592	0.615	0.634	0.603	4.0
Trichloroethene	0.453	0.398	0.411	0.406	0.406	0.415	5.3
Dibromochloromethane	0.480	0.472	0.505	0.522	0.525	0.501	4.8
1,1,2-Trichloroethane	0.326	0.305	0.306	0.324	0.317	0.316	3.1
Benzene	1.112	0.969	0.969	0.994	0.960	1.001	6.3
trans-1,3-Dichloropropene	0.484	0.447	0.464	0.457	0.495	0.469	4.2
2-Chloroethylvinylether	0.193	0.186	0.186	0.194	0.190	0.190	2.0
Bromoform	# 0.264	0.283	0.301	0.330	0.333	0.302	9.9#
4-Methyl-2-Pentanone	0.361	0.319	0.312	0.354	0.313	0.332	7.2
2-Hexanone	0.241	0.243	0.215	0.256	0.225	0.236	6.8
Tetrachloroethene	0.466	0.437	0.407	0.433	0.407	0.430	5.7
1,1,2,2-Tetrachloroethane	# 0.608	0.606	0.555	0.632	0.581	0.596	4.9#
Toluene	* 0.907	0.852	0.778	0.860	0.796	0.839	6.2*
Chlorobenzene	# 1.105	1.056	0.981	1.093	1.048	1.057	4.6#
Ethylbenzene	* 0.554	0.527	0.467	0.515	0.483	0.509	6.8*
Styrene	1.157	1.119	1.029	1.122	1.064	1.098	4.6
o-Xylene (total)	0.644	0.619	0.558	0.600	0.582	0.601	5.5
Toluene-d8	1.318	1.254	1.152	1.246	1.261	1.246	4.8
Bromofluorobenzene	0.767	0.737	0.743	0.722	0.740	0.742	2.2
1,2-Dichloroethane-d4	1.915	1.724	1.746	1.683	1.729	1.759	5.1

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration Date(s): 10/08/91 10/08/91

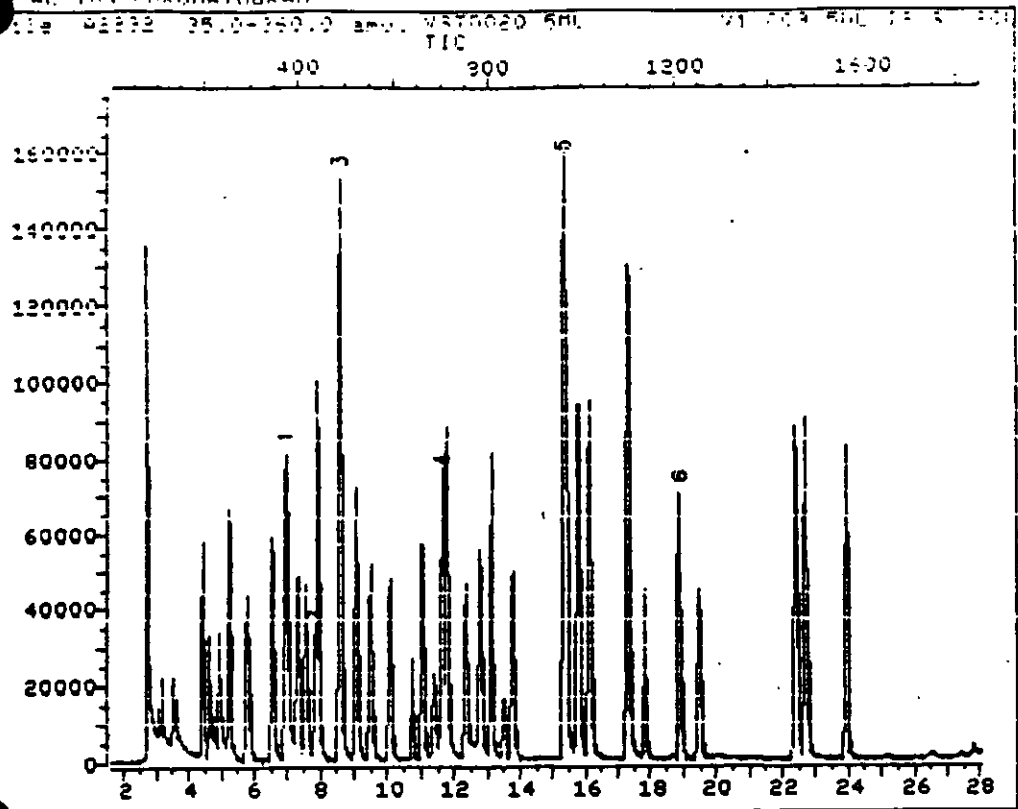
Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

Min \overline{RRF} for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: _____ RRF20 = F2791 RRF50 = F2790
 RRF100 = F2793 RRF150 = F2794 RRF200 = F2795

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	\overline{RRF}	% RSD
Chloromethane	1.187	1.104	1.101	1.094	0.995	1.096	6.2#
Bromomethane	1.370	1.103	1.284	1.257	1.110	1.225	9.5
Vinyl Chloride	* 1.162	1.090	1.180	1.152	1.109	1.139	3.3*
Chloroethane	0.736	0.602	0.718	0.708	0.556	0.664	12.0
Methylene Chloride	1.812	1.458	1.407	1.525	1.438	1.528	10.8
Acetone	0.427	0.434	0.368	0.337	0.309	0.375	14.6
Carbon Disulfide	3.800	2.994	2.658	2.765	2.888	3.021	15.0
1,1-Dichloroethene	* 1.293	1.013	0.937	0.874	0.829	0.989	18.5*
1,1-Dichloroethane	# 3.559	2.860	2.953	3.068	2.949	3.078	9.1#
2-Dichloroethene (total)	1.844	1.488	1.472	1.592	1.507	1.581	9.8
Bromoform	* 4.006	3.186	3.604	3.591	3.457	3.569	8.3*
1,2-Dichloroethane	2.610	2.147	2.290	2.232	2.051	2.266	9.4
2-Butanone	0.379	0.315	0.369	0.335	0.293	0.338	10.7
1,1,1-Trichloroethane	0.660	0.533	0.557	0.574	0.549	0.575	8.7
Carbon Tetrachloride	0.544	0.438	0.467	0.480	0.484	0.483	8.0
Vinyl Acetate	1.062	0.931	0.953	1.015	0.919	0.976	6.2
Bromodichloromethane	0.724	0.643	0.677	0.698	0.664	0.681	4.6
1,2-Dichloropropane	* 0.482	0.402	0.414	0.428	0.398	0.425	8.0*
cis-1,3-Dichloropropene	0.695	0.593	0.643	0.662	0.636	0.646	5.8
Trichloroethene	0.472	0.386	0.416	0.430	0.413	0.423	7.4
Dibromochloromethane	0.636	0.562	0.617	0.659	0.631	0.621	5.8
1,1,2-Trichloroethane	0.454	0.381	0.400	0.408	0.392	0.407	6.9
Benzene	1.158	0.953	0.982	1.024	0.940	1.011	8.7
trans-1,3-Dichloropropene	0.621	0.515	0.551	0.531	0.554	0.554	7.3
2-Chloroethylvinylether	0.274	0.269	0.285	0.334	0.265	0.285	9.9
Bromoform	# 0.460	0.421	0.479	0.519	0.493	0.474	7.8#
4-Methyl-2-Pentanone	0.966	0.917	0.974	0.935	0.811	0.921	7.1
2-Hexanone	0.725	0.699	0.788	0.755	0.655	0.724	7.1
Tetrachloroethene	0.496	0.427	0.428	0.436	0.415	0.440	7.3
1,1,2,2-Tetrachloroethane	# 1.140	1.007	1.107	1.122	1.018	1.079	5.7#
Toluene	* 0.971	0.826	0.823	0.857	0.788	0.853	8.2*
Chlorobenzene	# 1.219	1.045	1.064	1.106	1.024	1.092	7.1#
Ethylbenzene	* 0.628	0.497	0.513	0.524	0.488	0.530	10.7*
Styrene	1.307	1.088	1.107	1.178	1.068	1.150	8.5
Xylene (total)	0.728	0.622	0.613	0.636	0.582	0.636	8.6
Toluene-d8	1.314	1.256	1.191	1.215	1.223	1.240	3.8
Bromofluorobenzene	0.778	0.756	0.756	0.741	0.766	0.759	1.8
1,2-Dichloroethane-d4	1.969	1.716	1.839	1.751	1.792	1.813	5.4

GC TOTAL ION CHROMATOGRAM



Data File: >A2832::D7

Quant Output File: ^A2832::QT

Name: USTD020 5ML

Misc: V1 C09 5UL IS/S 20UL/200ML UDA A,B,HSL

Id File: UDAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: DUDE

Quant Time: 910829 12:08

Injected at: 910829 11:39

000137

QUANT REPORT

Operator ID: DUDE Quant Rev: 6 Quant Time: 910829 12:08
 Output File: ^A2832::QT Injected at: 910829 11:39
 Data File: >A2832::D7 Dilution Factor: 1.0000U
 Name: USTD020 5ML
 Misc: V1 C09 5UL IS/S 20UL/200ML UOA A,B,HSL

ID File: UOAID1::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO
 Last Calibration: 910829 11:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	6.91	373	76378	50.00	UG/L	45
2)	C010 Chloromethane	3.06	104	30618	20.06	UG/L	92
3)	C020 Vinyl Chloride	3.16	111	36350	19.40	UG/L	87
4)	C015 Bromomethane	3.51	135	31506	26.24	UG/L	95
5)	C025 Chloroethane	3.61	142	24324	21.15	UG/L	94
6)	C045 1,1-Dichloroethene	4.39	197	37681	21.91	UG/L	92
7)	C035 Acetone	4.46	202	13162	20.83	UG/L	100
8)	C040 Carbon Disulfide	4.65	215	132185	21.14	UG/L	100
9)	C030 Methylene Chloride	4.92	234	52338	21.11	UG/L	81
10)	C053 Trans-1,2-Dichloroethene	5.24	256	49093	20.92	UG/L	97
11)	C055 cis-1,2-Dichloroethene	6.55	348	57119	21.49	UG/L	92
12)	C050 1,1-Dichloroethane	5.76	293	96538	21.53	UG/L	83
13)	C060 Chloroform	7.01	380	110912	21.22	UG/L	97
14)	C065 1,2-Dichloroethane	7.94	445	79948	21.39	UG/L	100
15)	C110 2-Butanone	6.58	350	6155	21.03	UG/L	89
16)	CS15 D4-1,2-Dichloroethane	7.81	436	63126	25.66	UG/L	91
17)	*CI10 1,4-Difluorobenzene	8.57	489	355098	50.00	UG/L	100
18)	C125 Vinyl Acetate	5.82	297	82300	19.52	UG/L	99
19)	C115 1,1,1-Trichloroethane	7.31	401	88472	22.17	UG/L	92
20)	C120 Carbon Tetrachloride	7.57	419	82519	22.30	UG/L	96
21)	C165 Benzene	7.91	443	177190	22.13	UG/L	100
22)	C150 Trichloroethene	9.05	523	73846	22.33	UG/L	99
23)	C140 1,2-Dichloropropane	9.48	553	63285M	21.10	UG/L	100
24)	C130 Bromodichloromethane	10.05	593	89017	21.16	UG/L	78
25)	C175 2-Chloroethylvinylether	10.72	640	38260	21.87	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.01	660	101468M	20.64	UG/L	94
27)	C172 Trans-1,3-Dichloropropen	12.34	753	75764	18.56	UG/L	100
28)	C160 1,1,2-Trichloroethane	12.77	783	56660	21.34	UG/L	76
29)	C155 Dibromochloromethane	13.77	853	86483	20.65	UG/L	95
30)	C180 Bromoform	17.81	1136	73447	20.76	UG/L	93
31)	*CI20 D5-Chlorobenzene	15.31	961	302592	50.00	UG/L	100
32)	CS05 D8-Toluene	11.61	702	178616	23.72	UG/L	85
33)	C205 4-Methyl-2-Pentanone	11.41	688	59842	20.30	UG/L	88
34)	C230 Toluene	11.78	714	113164	21.47	UG/L	96
35)	C210 2-Hexanone	13.48	833	42726	20.64	UG/L	94
36)	C220 Tetrachloroethene	13.10	806	69536	22.43	UG/L	95
37)	C235 Chlorobenzene	15.40	967	151689	21.83	UG/L	69
38)	C240 Ethylbenzene	15.75	992	74144	21.86	UG/L	99
39)	CXXX Xylene (p)	16.11	1017	92569	21.82	UG/L	98
40)	CXXX Xylene (o)	17.27	1098	86277	21.84	UG/L	95
41)	C245 Styrene	17.33	1102	146825	21.59	UG/L	90
42)	C225 1,1,2,2-Tetrachloroethan	19.47	1252	87071	20.86	UG/L	94

900138

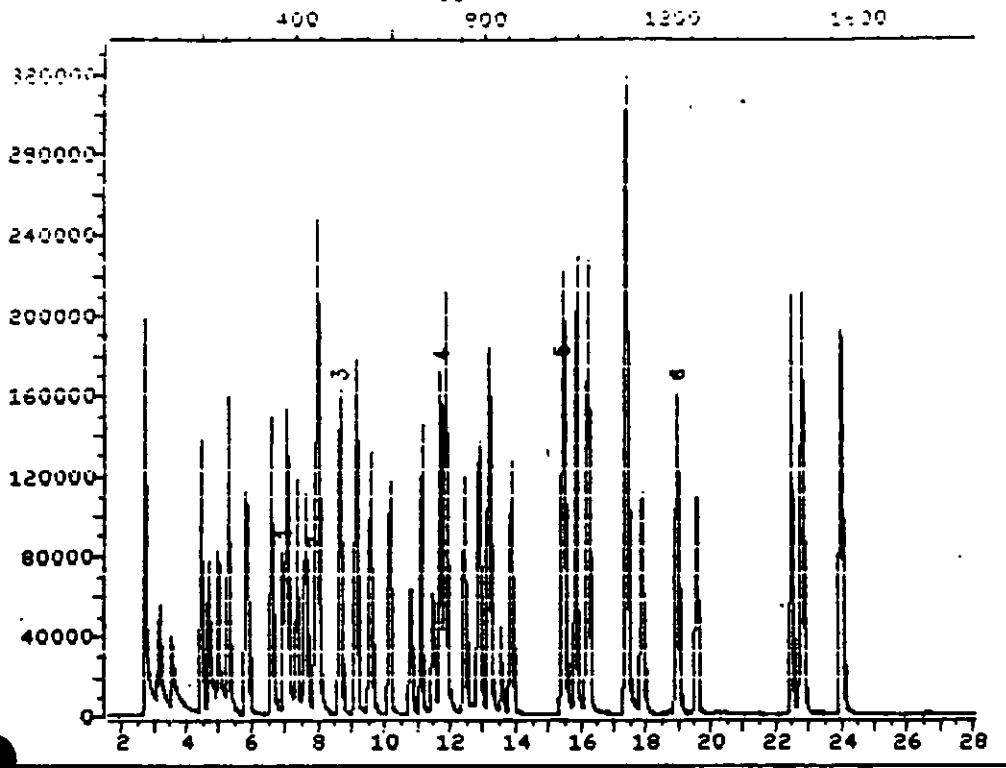
	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	22.39	1456	139648	22.50	UG/L	100
45)	C340 Dichlorobenzene (p)	22.70	1478	141730	22.78	UG/L	100
46)	C350 Dichlorobenzene (o)	23.91	1563	131522	22.40	UG/L	100
47)	C250 Xylene (Total)	17.27	1098	83830	21.37	UG/L	97

* Compound is ISTD

000139

GC TON CHROMATOGRAM

File: A2831 35.0-360.0 AMU, VSTD050 5ML 11/10/89 11:24



Data File: >A2831::D7

Quant Output File: ^A2831::QT

Name: VSTD050 5ML

Misc: V1 C09 5UL IS/S 25UL/100ML VOA A,B,HSL

Id File: VOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO

Last Calibration: 910828 22:18

Operator ID: MANAGER

Quant Time: 910829 11:24

Injected at: 910829 10:55

000140

QUANT REPORT

Operator ID: MANAGER Quant Rev: 6 Quant Time: 910829 11:24
 Output File: ^A2831::QT Injected at: 910829 10:55
 Data File: >A2831::07 Dilution Factor: 1.00000
 Name: USTD050 5ML
 Misc: V1 C09 5UL IS/S 25UL/100ML UOA A,B,HSL

ID File: UOAID1::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO
 Last Calibration: 910828 22:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*C101 Bromochloromethane	6.95	376	83353	50.00	UG/L	37
2)	C010 Chloromethane	3.08	105	83292	49.99	UG/L	95
3)	C020 Vinyl Chloride	3.19	113	102260	50.71	UG/L	86
4)	C015 Bromomethane	3.52	136	65512	48.25	UG/L	92
5)	C025 Chloroethane	3.62	143	62745	49.23	UG/L	95
6)	C045 1,1-Dichloroethene	4.42	199	93837	48.58	UG/L	91
7)	C035 Acetone	4.49	204	34481	51.69	UG/L	100
8)	C040 Carbon Disulfide	4.68	217	341204	49.86	UG/L	100
9)	C030 Methylene Chloride	4.95	236	135256	51.55	UG/L	73
10)	C053 Trans-1,2-Dichloroethene	5.28	259	128028	51.84	UG/L	97
11)	C055 cis-1,2-Dichloroethene	6.59	351	145036	51.38	UG/L	94
12)	C050 1,1-Dichloroethane	5.81	296	244708	51.35	UG/L	86
13)	C060 Chloroform	7.06	384	285216	51.51	UG/L	94
14)	C065 1,2-Dichloroethane	7.99	449	203980	51.13	UG/L	100
15)	C110 2-Butanone	6.62	353	15974	51.85	UG/L	87
16)	CS15 D4-1,2-Dichloroethane	7.86	440	134247	43.22	UG/L	89
17)	*C110 1,4-Difluorobenzene	8.62	493	384471	50.00	UG/L	100
18)	C125 Vinyl Acetate	5.85	299	228225	181.27	UG/L	98
19)	C115 1,1,1-Trichloroethene	7.35	404	216065	53.29	UG/L	93
20)	C120 Carbon Tetrachloride	7.62	423	200331	52.20	UG/L	99
21)	C165 Benzene	7.96	447	433445	52.96	UG/L	100
22)	C150 Trichloroethene	9.11	527	178997	47.58	UG/L	98
23)	C140 1,2-Dichloropropane	9.55	558	165073M	52.51	UG/L	100
24)	C130 Bromodichloromethane	10.11	597	227752	52.59	UG/L	78
25)	C175 2-Chloroethylvinylether	10.78	644	94707	50.84	UG/L	93
26)	C143 Cis-1,3-Dichloropropen	11.10	666	260994M	52.50	UG/L	99
27)	C172 Trans-1,3-Dichloropropen	12.41	758	203304	50.37	UG/L	100
28)	C160 1,1,2-Trichloroethane	12.85	789	143742	53.22	UG/L	66
29)	C155 Dibromochloromethane	13.84	858	226739	53.82	UG/L	92
30)	C180 Bromoform	17.89	1141	191550	53.26	UG/L	99
31)	*C120 D5-Chlorobenzene	15.38	966	321107	50.00	UG/L	100
32)	CS05 D8-Toluene	11.70	708	399484	50.84	UG/L	87
33)	C205 4-Methyl-2-Pentanone	11.47	692	156434	57.82	UG/L	86
34)	C230 Toluene	11.85	719	279684	55.50	UG/L	98
35)	C210 2-Hexanone	13.55	838	109823	58.24	UG/L	98
36)	C220 Tetrachloroethene	13.17	811	164482	53.64	UG/L	93
37)	C235 Chlorobenzene	15.47	972	368690	53.64	UG/L	70
38)	C240 Ethylbenzene	15.83	997	179953	54.39	UG/L	99
39)	CXXX Xylene (p)	16.18	1022	225092	56.22	UG/L	98
40)	CXXX Xylene (o)	17.34	1103	209599	54.08	UG/L	95
41)	C245 Styrene	17.40	1107	360858	54.26	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	19.54	1257	221509	66.69	UG/L	94

000141

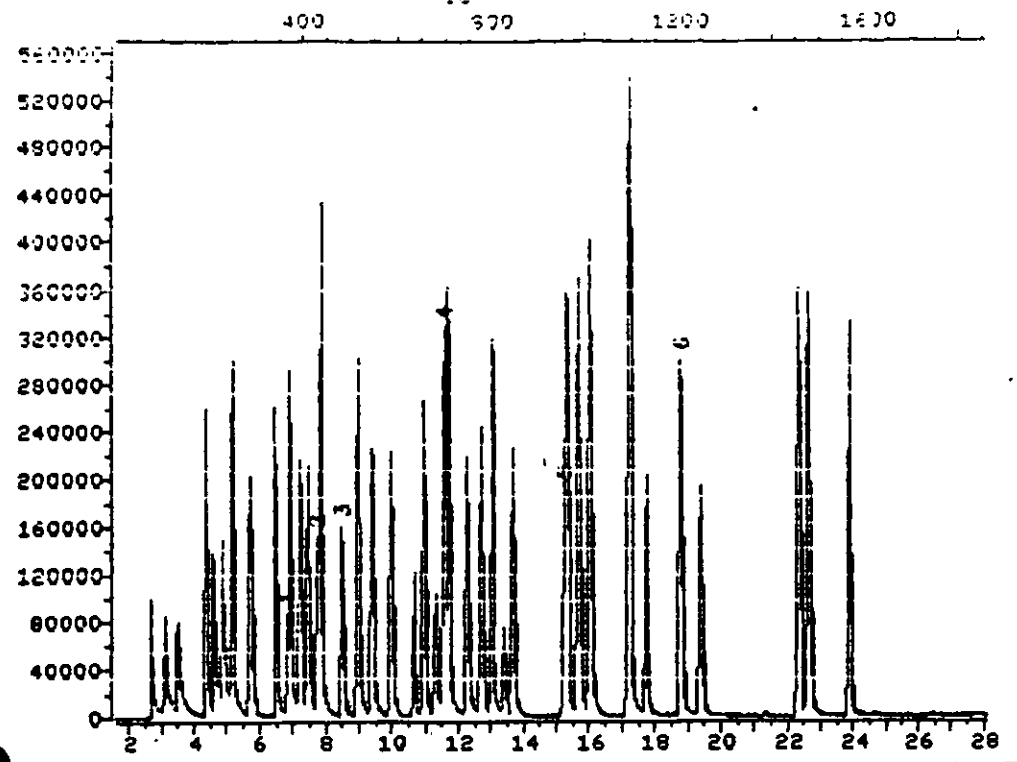
	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	22.46	1461	329306	53.35	UG/L	100
45)	C340 Dichlorobenzene (p)	22.77	1483	330127	53.70	UG/L	100
46)	C350 Dichlorobenzene (o)	23.99	1568	311538	53.35	UG/L	100
47)	C250 Xylene (Total)	17.34	1103	208136	54.12	UG/L	97

* Compound is ISTD

000142

TOTAL ION CHROMATOGRAM

File: A2834 35.0-260.0 min. VSTD100 5ML 11 209 511 10.5 160
TIC



Data File: >A2834::D7

Quant Output File: ^A2834::QT

Name: VSTD100 5ML

Misc: V1 C09 5UL IS/S 25UL/50 ML VOA A,B,HSL

Id File: VOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: MANAGER

Quant Time: 910829 14:15

Injected at: 910829 13:46

000143

QUANT REPORT

Operator ID: MANAGER
 Output File: ^A2834::QT
 Data File: >A2834::D7
 Name: USTD100 5ML
 Misc: U1 C09 5UL IS/S 25UL/50 ML UDA A,B,HSL

Quant Rev: 6 Quant Time: 910829 14:15
 Injected at: 910829 13:46
 Dilution Factor: 1.00000

ID File: UDAID1::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO
 Last Calibration: 910829 11:45

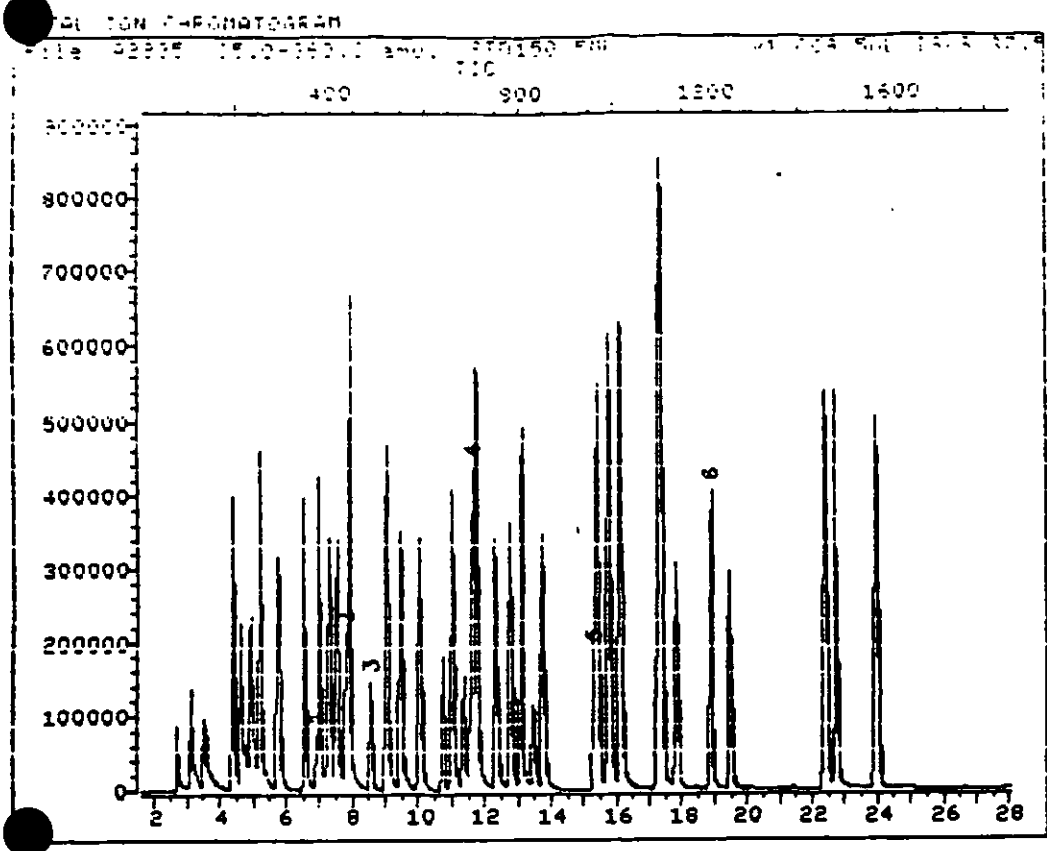
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	6.84	368	78217	50.00	UG/L	43
2)	C010 Chloromethane	3.03	102	132706	84.89	UG/L	94
3)	C020 Vinyl Chloride	3.15	110	169354	88.24	UG/L	86
4)	C015 Bromomethane	3.48	133	146296	118.99	UG/L	95
5)	C025 Chloroethane	3.58	140	107146	90.99	UG/L	97
6)	C045 1,1-Dichloroethene	4.35	194	183360	104.12	UG/L	93
7)	C035 Acetone	4.42	199	54155	83.69	UG/L	100
8)	C040 Carbon Disulfide	4.61	212	624836	97.58	UG/L	100
9)	C030 Methylene Chloride	4.88	231	222401	87.61	UG/L	86
10)	C053 Trans-1,2-Dichloroethene	5.19	253	229867	95.67	UG/L	96
11)	C055 cis-1,2-Dichloroethene	6.48	343	258500	94.97	UG/L	91
12)	C050 1,1-Dichloroethane	5.71	289	452739	98.58	UG/L	85
13)	C060 Chloroform	6.95	376	565254	105.60	UG/L	99
14)	C065 1,2-Dichloroethane	7.87	440	380051	99.28	UG/L	100
15)	C110 2-Butanone	6.51	345	26214	87.44	UG/L	87
16)	CS15 D4-1,2-Dichloroethane	7.74	431	289645	114.96	UG/L	89
17)	*CI10 1,4-Difluorobenzene	8.50	484	371650	50.00	UG/L	100
18)	C125 Vinyl Acetate	5.76	293	402069	91.12	UG/L	96
19)	C115 1,1,1-Trichloroethane	7.24	396	407881	97.64	UG/L	92
20)	C120 Carbon Tetrachloride	7.49	414	389003	100.44	UG/L	99
21)	C165 Benzene	7.84	438	739897	88.30	UG/L	100
22)	C150 Trichloroethene	8.98	518	311468	90.01	UG/L	98
23)	C140 1,2-Dichloropropane	9.41	548	287461M	97.00	UG/L	100
24)	C130 Bromodichloromethane	9.97	587	427505	97.09	UG/L	79
25)	C175 2-Chloroethylvinylether	10.64	634	176951	96.64	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	10.94	655	468359M	98.91	UG/L	96
27)	C172 Trans-1,3-Dichloropropen	12.26	747	378677	88.64	UG/L	100
28)	C160 1,1,2-Trichloroethane	12.70	778	254565	91.60	UG/L	67
29)	C155 Dibromochloromethane	13.67	846	424192	96.77	UG/L	94
30)	C180 Bromoform	17.72	1129	362042	97.76	UG/L	99
31)	*CI20 D5-Chlorobenzene	15.23	955	307292	50.00	UG/L	100
32)	CS05 D8-Toluene	11.54	697	762859	99.77	UG/L	85
33)	C205 4-Methyl-2-Pentanone	11.33	682	270273	90.27	UG/L	87
34)	C230 Toluene	11.70	708	485339	90.67	UG/L	98
35)	C210 2-Hexanone	13.39	826	191286	91.00	UG/L	96
36)	C220 Tetrachloroethene	13.02	800	288181	91.54	UG/L	84
37)	C235 Chlorobenzene	15.32	961	648020	91.83	UG/L	72
38)	C240 Ethylbenzene	15.67	986	316408	91.87	UG/L	90
39)	CXXX Xylene (p)	16.03	1011	367159	85.22	UG/L	96
40)	CXXX Xylene (o)	17.18	1091	359584	89.64	UG/L	95
41)	C245 Styrene	17.25	1096	620036	89.77	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	19.39	1246	401319	94.66	UG/L	92

000144

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	22.32	1451	570768	90.56	UG/L	100
45)	C340 Dichlorobenzene (p)	22.64	1473	567049	89.74	UG/L	100
46)	C350 Dichlorobenzene (o)	23.87	1559	534670	89.67	UG/L	100
47)	C250 Xylene (Total)	17.18	1091	357382	89.71	UG/L	96

* Compound is ISTD

000145



Data File: >A2835::D7

Quant Output File: ^A2835::QT

Name: USTD150 5ML

Misc: V1 C09 5UL IS/S 37.5 /50 ML VOA A,B,HSL

Id File: VOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: MANAGER

Quant Time: 910829 14:51

Injected at: 910829 14:22

QUANT REPORT

Operator ID: MANAGER
 Output File: ^A2835::QT
 Data File: >A2835::07
 Name: USTD150 5ML

Quant Rev: 6 Quant. Time: 910829 14:51
 Injected at: 910829 14:22
 Dilution Factor: 1.00000

Misc: U1 C09 5UL IS/S 37.5 /50 ML UOA A,8,HSL

ID File: UOAID1::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSELO
 Last Calibration: 910829 11:45

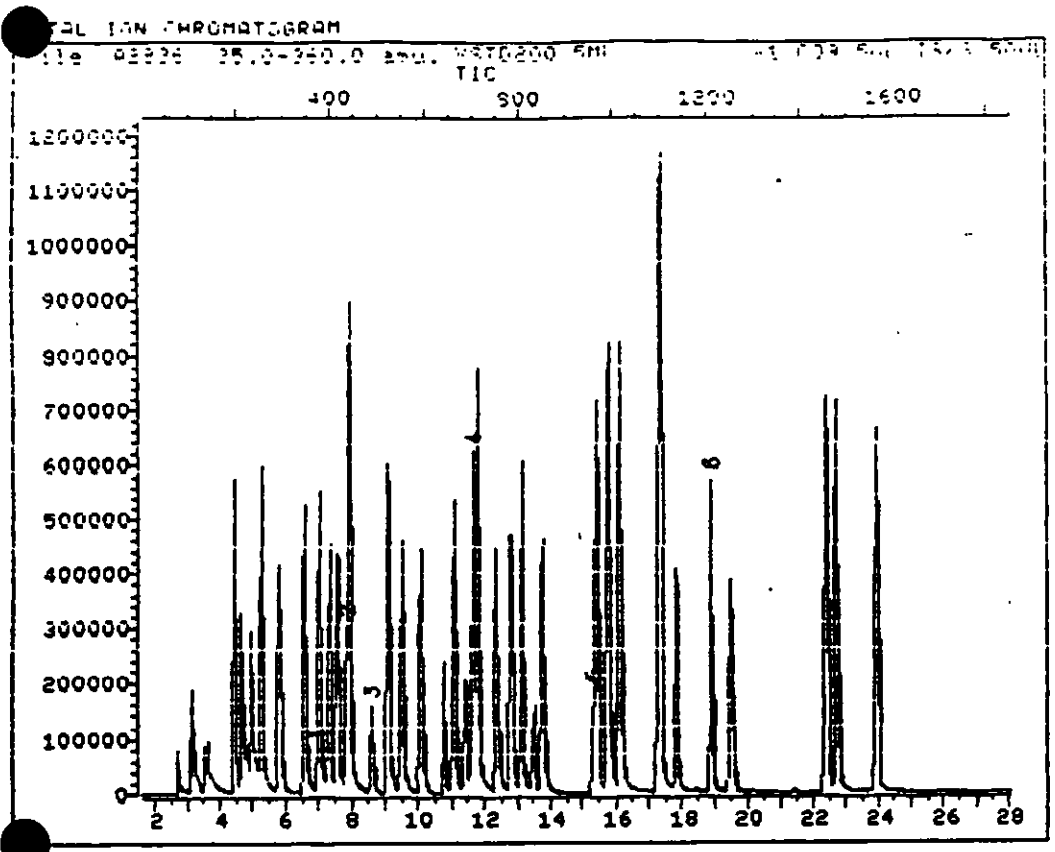
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*C101 Bromochloromethane	6.88	371	72149	50.00	UG/L	36
2)	C010 Chloromethane	3.05	103	215004	149.11	UG/L	99
3)	C020 Vinyl Chloride	3.16	111	278563	157.35	UG/L	89
4)	C015 Bromomethane	3.48	133	184548	162.72	UG/L	95
5)	C025 Chloroethane	3.58	140	176076	162.10	UG/L	96
6)	C045 1,1-Dichloroethene	4.36	195	291214	179.27	UG/L	90
7)	C035 Acetone	4.45	201	86625	145.12	UG/L	100
8)	C040 Carbon Disulfide	4.64	214	1076973	182.33	UG/L	100
9)	C030 Methylene Chloride	4.91	233	385440	164.61	UG/L	75
10)	C053 Trans-1,2-Dichloroethene	5.22	255	362995	163.78	UG/L	91
11)	C055 cis-1,2-Dichloroethene	6.52	346	411168	163.76	UG/L	97
12)	C050 1,1-Dichloroethane	5.74	291	696625	164.44	UG/L	85
13)	C060 Chloroform	7.00	379	856893	173.55	UG/L	96
14)	C065 1,2-Dichloroethane	7.93	444	588119	166.55	UG/L	100
15)	C110 2-Butanone	6.55	348	38874	140.57	UG/L	90
16)	CS15 D4-1,2-Dichloroethane	7.80	435	401621	172.81	UG/L	93
17)	*C110 1,4-Difluorobenzene	8.54	487	348543	50.00	UG/L	100
18)	C125 Vinyl Acetate	5.79	295	559593	135.23	UG/L	99
19)	C115 1,1,1-Trichloroethane	7.28	399	660237	168.54	UG/L	92
20)	C120 Carbon Tetrachloride	7.54	417	603144	166.05	UG/L	98
21)	C165 Benzene	7.90	442	1134088	144.31	UG/L	100
22)	C150 Trichloroethene	9.03	521	485727	149.67	UG/L	92
23)	C140 1,2-Dichloropropane	9.47	552	445895M	162.04	UG/L	100
24)	C130 Bromodichloromethane	10.03	591	669130	162.04	UG/L	79
25)	C175 2-Chloroethylvinylether	10.70	638	264241	153.88	UG/L	97
26)	C143 Cis-1,3-Dichloropropen	11.01	660	736657M	145.86	UG/L	98
27)	C172 Trans-1,3-Dichloropropen	12.33	752	584426	145.86	UG/L	100
28)	C160 1,1,2-Trichloroethane	12.76	782	381195	146.27	UG/L	70
29)	C155 Dibromochloromethane	13.75	851	645295	156.97	UG/L	86
30)	C180 Bromoform	17.81	1135	544102	156.67	UG/L	98
31)	*C120 D5-Chlorobenzene	15.31	960	283609	50.00	UG/L	100
32)	CS05 D8-Toluene	11.60	701	1043402	147.86	UG/L	84
33)	C205 4-Methyl-2-Pentanone	11.39	686	413232	149.54	UG/L	89
34)	C230 Toluene	11.76	712	764090	154.66	UG/L	96
35)	C210 2-Hexanone	13.46	831	287719	148.31	UG/L	95
36)	C220 Tetrachloroethene	13.09	805	439742	151.35	UG/L	98
37)	C235 Chlorobenzene	15.39	966	1011649	155.33	UG/L	72
38)	C240 Ethylbenzene	15.75	991	491687	154.68	UG/L	93
39)	CXXX Xylene (p)	16.12	1017	592967	149.13	UG/L	96
40)	CXXX Xylene (o)	17.27	1097	544414	147.04	UG/L	90
41)	C245 Styrene	17.32	1101	973525	152.73	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	19.46	1250	600989	153.59	UG/L	92

000147

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	22.40	1456	858350	147.56	UG/L	100
45)	C340 Dichlorobenzene (p)	22.71	1478	834408	143.09	UG/L	100
46)	C350 Dichlorobenzene (o)	23.94	1564	798290	145.06	UG/L	100
47)	C250 Xylene (Total)	17.27	1097	540381	146.98	UG/L	97

* Compound is ISTD

000148



Data File: >A2836::D7

Quant Output File: ^A2836::QT

Name: VSTD200 5ML

Misc: V1 C09 5UL IS/S 50UL /50. ML VOA A,B,HSL

Id File: VOAID1::**

Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: MANAGER

Quant Time: 910829 15:27

Injected at: 910829 14:58

QUANT REPORT

Operator ID: MANAGER Quant Rev: 6 Quant Time: 910829 15:27
 Output File: ^A2836::QT Injected at: 910829 14:58
 Data File: >A2836::D7 Dilution Factor: 1.00000
 Name: USTD200 5ML
 Misc: V1 C09 5UL IS/S 50UL /50 ML UOA A,B,HSL

ID File: UOAID1::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO
 Last Calibration: 910829 11:45

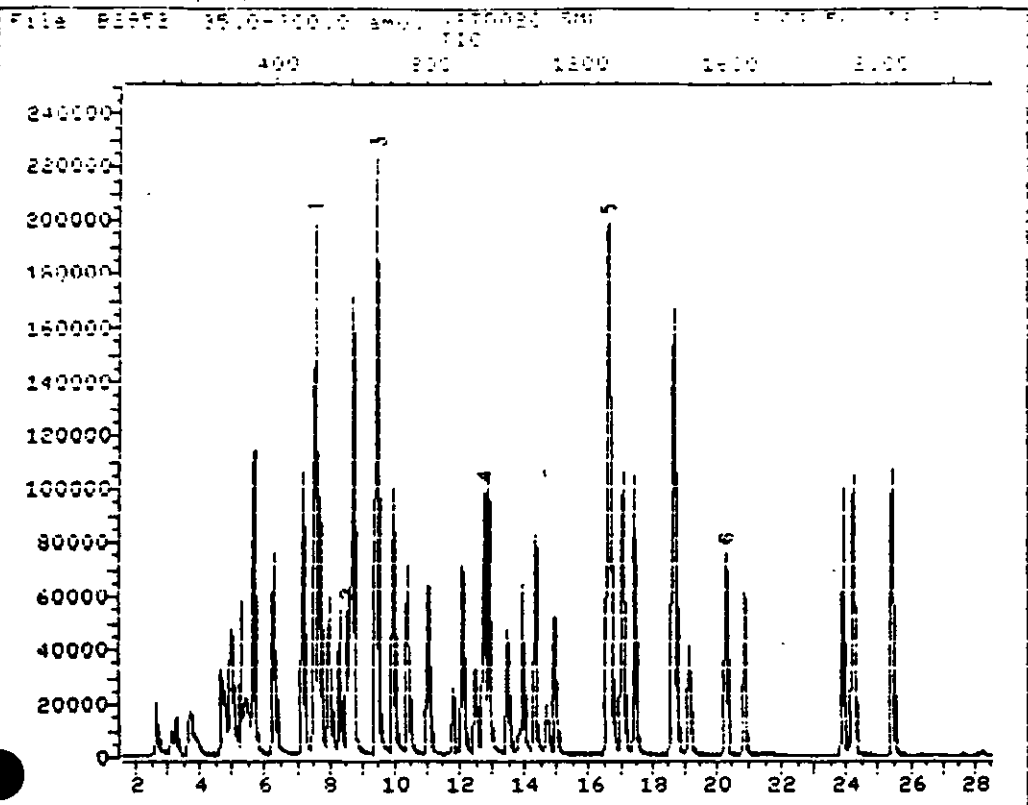
	Compound	R. T.	Scan#	Area	Conc	Units	q
1)	*C101 Bromochloromethane	6.92	374	79470	50.00	UG/L	39
2)	C010 Chloromethane	3.06	104	285890	180.00	UG/L	96
3)	C020 Vinyl Chloride	3.18	112	362563	185.94	UG/L	88
4)	C015 Bromomethane	3.51	135	204541	163.74	UG/L	94
5)	C025 Chloroethane	3.61	142	197818	165.34	UG/L	95
6)	C045 1,1-Dichloroethene	4.41	198	375789	210.02	UG/L	85
7)	C035 Acetone	4.48	203	120419	183.15	UG/L	100
8)	C040 Carbon Disulfide	4.66	216	1485222	228.28	UG/L	100
9)	C030 Methylene Chloride	4.94	235	515623	199.92	UG/L	62
10)	C053 Trans-1,2-Dichloroethene	5.25	257	461586	189.08	UG/L	94
11)	C055 cis-1,2-Dichloroethene	6.57	349	542697	196.23	UG/L	97
12)	C050 1,1-Dichloroethane	5.78	294	950357	203.67	UG/L	82
13)	C060 Chloroform	7.04	382	1134736	208.65	UG/L	97
14)	C065 1,2-Dichloroethane	7.95	446	779850	200.50	UG/L	100
15)	C110 2-Butanone	6.59	351	54174	177.85	UG/L	86
16)	CS15 D4-1,2-Dichloroethane	7.84	438	585540	228.74	UG/L	92
17)	*C110 1,4-Difluorobenzene	8.60	491	360656	50.00	UG/L	100
18)	C125 Vinyl Acetate	5.84	298	767677	179.29	UG/L	95
19)	C115 1,1,1-Trichloroethane	7.32	402	866744	213.82	UG/L	91
20)	C120 Carbon Tetrachloride	7.58	420	802601	213.55	UG/L	98
21)	C165 Benzene	7.93	444	1539289	189.29	UG/L	100
22)	C150 Trichloroethene	9.07	524	613113	182.57	UG/L	97
23)	C140 1,2-Dichloropropane	9.51	555	576032	204.09	UG/L	100
24)	C130 Bromodichloromethane	10.07	594	876560	205.14	UG/L	80
25)	C175 2-Chloroethylvinylether	10.74	641	357440	201.22	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.04	662	977817	203.74	UG/L	98
27)	C172 Trans-1,3-Dichloropropen	12.36	754	779468	188.01	UG/L	100
28)	C160 1,1,2-Trichloroethane	12.79	784	503160	186.58	UG/L	67
29)	C155 Dibromochloromethane	13.78	853	838386	197.09	UG/L	99
30)	C180 Bromoform	17.83	1136	706098	196.48	UG/L	99
31)	*C120 D5-Chlorobenzene	15.32	961	293563	50.00	UG/L	100
32)	CS05 D8-Toluene	11.63	703	1486353	203.49	UG/L	85
33)	C205 4-Methyl-2-Pentanone	11.42	688	552084	193.02	UG/L	88
34)	C230 Toluene	11.79	714	1007286	196.97	UG/L	94
35)	C210 2-Hexanone	13.49	833	392938	195.68	UG/L	96
36)	C220 Tetrachloroethene	13.12	807	553819	184.15	UG/L	93
37)	C235 Chlorobenzene	15.41	967	1326960	196.84	UG/L	72
38)	C240 Ethylbenzene	15.77	992	631312	191.87	UG/L	95
39)	CXXX Xylene (p)	16.14	1018	775127	188.34	UG/L	92
40)	CXXX Xylene (o)	17.30	1099	719879	187.84	UG/L	89
41)	C245 Styrene	17.35	1103	1295035	196.27	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	19.47	1251	791768	195.49	UG/L	93

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	22.40	1456	1092409	181.43	UG/L	100
45)	C340 Dichlorobenzene (p)	22.72	1478	1096034	181.58	UG/L	100
46)	C350 Dichlorobenzene (o)	23.93	1563	1021783	179.38	UG/L	100
47)	C250 Xylene (Total)	17.30	1099	711553	186.97	UG/L	97

* Compound is ISTD

000151

FILE: 10N CHEMSTAT.D



Data File: >B2952::D6
Name: USTD020 5ML
Misc: V2 C3 5UL IS/S

Quant Output File: ^B2952::Q1

Id File: UDAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 910829 00:11

Operator ID: NORA
Quant Time: 911011 19:25
Injected at: 911011 18:56

000152

Quant. Report

Operator: JSL
 Output File: 04102:101
 Data File: 04102:106
 Name: 0510020 97L
 Misc: 02 03 50L 1545

Quant. Method: Injected amt
 Dilution Factor: 1.0000

ID File: 04102:101
 Title: HSL PULP FILES: 105mmx.53mm:08624:02:EROU/ENSECU
 Last Calibration: 910829 00:11

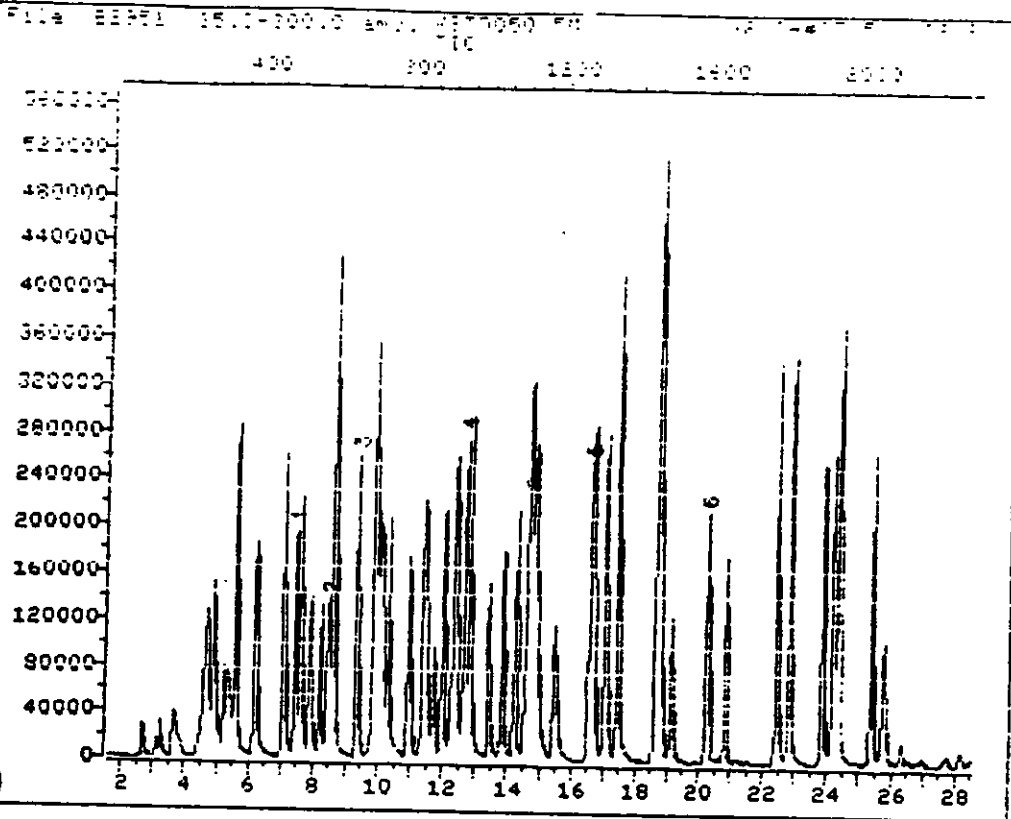
	Compound	R.T.	Q Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	2.53	128.0	136078	50.00	UG/L	82
2)	C010 Chloromethane	3.12	50.0	37658	18.12	UG/L	97
3)	C020 Vinyl Chloride	3.26	62.0	60131	23.80	UG/L	87
4)	C015 Bromomethane	3.69	94.0	56473	26.60	UG/L	89
5)	C025 Chloroethane	3.88	64.0	39899	22.99	UG/L	96
6)	C045 1,1-Dichloroethene	4.64	96.0	29701	8.45	UG/L	98
7)	C035 Acetone	4.71	43.0	23320	9.35	UG/L	100
8)	C040 Carbon Disulfide	4.99	76.0	281098	19.64	UG/L	100
9)	C030 Methylene Chloride	5.26	84.0	53069	8.02	UG/L	87
10)	C053 Trans-1,2-Dichloroethene	5.63	96.0	103983	20.00	UG/L	99
11)	C055 cis-1,2-Dichloroethene	7.14	96.0	109314	21.70	UG/L	92
12)	C050 1,1-Dichloroethane	6.24	63.0	192411	18.54	UG/L	87
13)	C060 Chloroform	7.68	83.0	187169	19.54	UG/L	96
14)	C065 1,2-Dichloroethane	8.69	62.0	116405	16.97	UG/L	100
15)	C110 2-Butanone	7.17	43.0	54919	60.48	UG/L	95
16)	CS15 D4-1,2-Dichloroethane	8.55	65.0	85367	16.96	UG/L	84
17)	*C110 1,4-Difluorobenzene	9.43	114.0	524584	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.34	43.0	163205	18.02	UG/L	97
19)	C115 1,1,1-Trichloroethane	8.00	97.0	112633	17.84	UG/L	71
20)	C120 Carbon Tetrachloride	8.30	117.0	102908	17.87	UG/L	97
21)	C165 Benzene	8.67	78.0	304334	21.19	UG/L	100
22)	C150 Trichloroethene	9.95	130.0	101134	23.98	UG/L	99
23)	C140 1,2-Dichloropropane	10.40	63.0	96702	18.69	UG/L	100
24)	C130 Bromodichloromethane	11.02	83.0	130804	19.77	UG/L	79
25)	C175 2-Chloroethylvinylether	11.77	63.0	39915	13.39	UG/L	99
26)	C143 Cis-1,3-Dichloropropen	12.07	75.0	130504	19.86	UG/L	95
27)	C172 Trans-1,3-Dichloropropen	13.47	75.0	82221	15.64	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.92	97.0	68000	19.79	UG/L	67
29)	C155 Dibromochloromethane	14.94	129.0	90927	20.09	UG/L	95
30)	C180 Bromoform	19.13	173.0	63130	18.52	UG/L	97
31)	*C120 D5-Chlorobenzene	16.57	117.0	367336	50.00	UG/L	100
32)	CS05 D8-Toluene	12.71	98.0	218568	20.74	UG/L	94
33)	C205 4-Methyl-2-Pentanone	12.49	43.0	87905	9.16	UG/L	86
34)	C230 Toluene	12.88	92.0	142783	20.28	UG/L	96
35)	C210 2-Hexanone	14.68	43.0	51387	9.01	UG/L	97
36)	C220 Tetrachloroethene	14.29	164.0	66762	23.11	UG/L	91
37)	C235 Chlorobenzene	16.65	112.0	171726	22.89	UG/L	75
38)	C240 Ethylbenzene	17.06	106.0	82047	21.89	UG/L	97
39)	CXXX Xylene (p)	17.43	106.0	100626	22.22	UG/L	99
40)	CXXX Xylenes (o)	18.61	106.0	112144	24.48	UG/L	97
41)	C245 Styrene	18.67	104.0	173224	23.65	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.84	83.0	136168	18.32	UG/L	94
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0	98625	21.91	UG/L	79

000153

Peak	Retention Time (min)	Compound	Area	Height	Width	Integration
45	17.75	Dichlorobenzene (m)	100100	10000	10000	100
46	18.01	Dichlorobenzene (p)	100100	10000	10000	100
46	24.18	Dichlorobenzene (o)	150000	15000	15000	150
47	25.41	Xylene (Total)	150000	15000	15000	150
47	18.01	Xylene (Total)	111000	11100	11100	111

* Compound is 1,3-DICHLOROBENZENE

FILE: 82951.D



Data File: >B2951::D6
Name: VSTD050 5ML
Misc: V2 CH#U7 5UL IS/S

Quant Output File: ^B2951::QT

Id File: VQAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 910829 00:11

Operator ID: NORA
Quant Time: 911011 18:21
Injected at: 911011 17:45

Operator: JG: JG: JG:
 Output File: 22951101
 Data File: 22951102
 Name: US10050 RNL
 Misc: 02 CH#07 9UL 15 15

Quant. Method: Quant. Limit: 711011 1.14E
 Injected at: 711011 1.14E
 Dilution Factor: 1.00000

ID File: 004102:114
 Title: HSL VOLATILES:105mmx.53mm:DB624:02:ERCOFENSELU
 Last Calibration: 910829 00:11

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101	Bromochloromethane	7.44	128.0	132167	50.00	UG/L	81
2)	C010	Chloromethane	3.08	50.0	54447	26.98	UG/L	98
3)	C020	Vinyl Chloride	3.21	62.0	112846	45.99	UG/L	88
4)	C019	Bromomethane	3.62	94.0	114612	55.58	UG/L	93
5)	C025	Chloroethane	3.82	64.0	83450	49.50	UG/L	97
6)	C045	1,1-Dichloroethene	4.68	96.0	148196	43.39	UG/L	98
7)	C035	Acetone	4.65	43.0	184082	75.96	UG/L	100
8)	C040	Carbon Disulfide	4.90	76.0	658896	47.39	UG/L	100
9)	C030	Methylene Chloride	5.18	84.0	69839	10.86	UG/L	84
10)	C053	Trans-1,2-Dichloroethene	5.57	96.0	249393	49.38	UG/L	97
11)	C055	cis-1,2-Dichloroethene	7.05	96.0	274344	56.08	UG/L	94
12)	C050	1,1-Dichloroethane	6.15	63.0	480279	47.64	UG/L	85
13)	C060	Chloroform	7.58	83.0	468229	50.34	UG/L	96
14)	C065	1,2-Dichloroethane	8.60	62.0	309849	46.51	UG/L	100
15)	C110	2-Butanone	7.08	43.0	149911	169.99	UG/L	96
16)	C515	04-1,2-Dichloroethane	8.46	65.0	210883	43.15	UG/L	81
17)	*C110	1,4-Difluorobenzene	9.34	114.0	607975	50.00	UG/L	100
18)	C125	Vinyl Acetate	6.25	43.0	595453	56.72	UG/L	98
19)	C115	1,1,1-Trichloroethane	7.91	97.0	274393	37.51	UG/L	91
20)	C120	Carbon Tetrachloride	8.21	117.0	253246	37.95	UG/L	97
21)	C165	Benzene	8.58	78.0	771706	46.37	UG/L	100
22)	C150	Trichloroethene	9.86	130.0	253256	51.81	UG/L	99
23)	C140	1,2-Dichloropropane	10.31	63.0	259303	43.25	UG/L	100
24)	C130	Bromodichloromethane	10.94	83.0	357676	46.65	UG/L	78
25)	C175	2-Chloroethylvinylether	11.69	63.0	128078	37.07	UG/L	93
26)	C143	Cis-1,3-Dichloropropen	12.01	75.0	397955	52.26	UG/L	95
27)	C172	Trans-1,3-Dichloropropen	13.43	75.0	267830	43.95	UG/L	100
28)	C160	1,1,2-Trichloroethane	13.87	97.0	199810	50.16	UG/L	72
29)	C155	Dibromochloromethane	14.91	129.0	276425	52.70	UG/L	99
30)	C180	Bromoform	19.12	173.0	195648	49.51	UG/L	97
31)	*C120	D5-Chlorobenzene	16.57	117.0	454894	50.00	UG/L	100
32)	C505	D8-Toluene	12.65	98.0	600575	46.02	UG/L	95
33)	C205	4-Methyl-2-Pentanone	12.43	43.0	260803	21.94	UG/L	84
34)	C230	Toluene	12.83	92.0	399745	45.84	UG/L	96
35)	C210	2-Hexanone	14.64	43.0	144652	20.49	UG/L	99
36)	C220	Tetrachloroethene	14.25	164.0	183139	51.18	UG/L	89
37)	C235	Chlorobenzene	16.65	112.0	474314	51.06	UG/L	74
38)	C240	Ethylbenzene	17.05	106.0	219923	47.37	UG/L	97
39)	CXXX	Xylene (p)	17.43	106.0	257928	45.99	UG/L	98
40)	CXXX	Xylenes (o)	18.60	106.0	276800	48.79	UG/L	93
41)	C245	Styrene	18.66	104.0	446756	49.25	UG/L	80
42)	C225	1,1,2,2-Tetrachloroethan	20.83	83.0	388993	42.26	UG/L	93

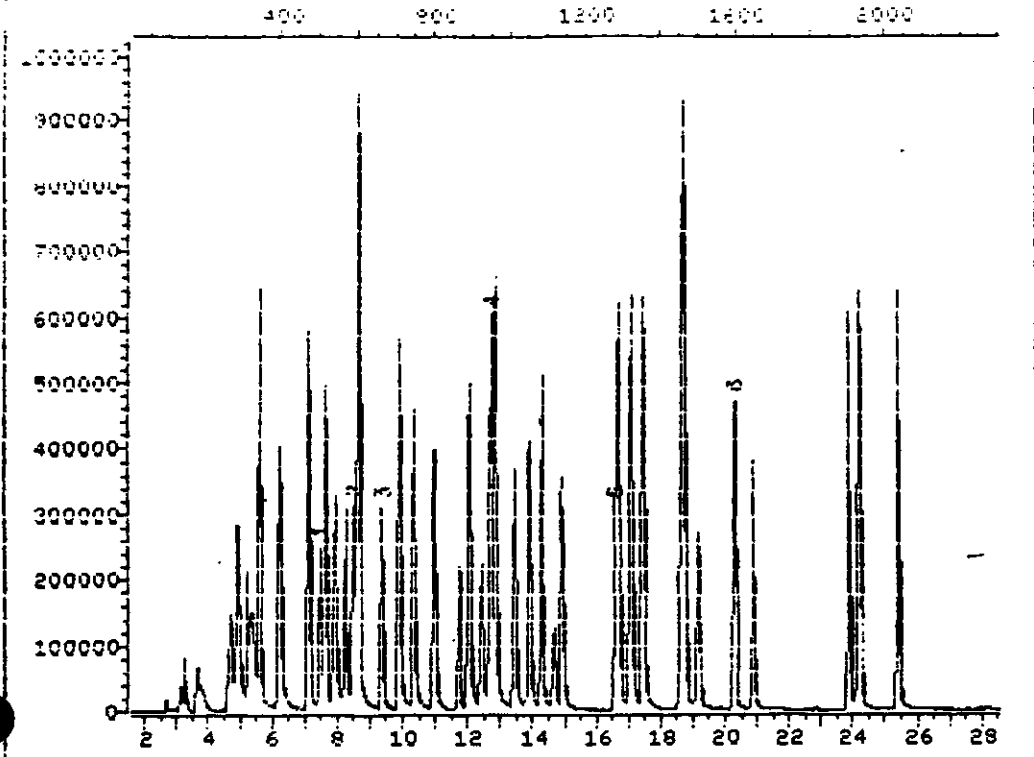
000158

	Compound		Area	Conc	Area	Conc	
44	L315	Dichlorobenzene (m)	27.12	100.0	2764	47.12	100.0
45	L340	Dichlorobenzene (p)	24.16	100.0	2907	46.16	100.0
46	L350	Dichlorobenzene (o)	25.38	100.0	3083	51.47	100.0
47	C250	Xylene (total)	18.60	100.0	2202	47.79	100.0

* Compound is 1510

TOTAL ION CHROMATOGRAM

File: 82955 35.0-300.0 min. 330000 S.M. 02 CH#13 5UL 15.0



Data File: >B2955::D6
Name: VSTD100 5ML
Misc: V2 CH#13 5UL IS/S

Quant Output File: ^B2955::QT

Id File: VQAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 911011 20:54

Operator ID: NORA
Quant Time: 911011 21:47
Injected at: 911011 21:16

QUALITY REPORT

Operator ID: NGRH
 Output File: 82955:01
 Data File: 82955:01
 Name: US10100 SUL
 Misc: 02 CH#13 SUL 15/5

Quant Method: 5 Quant Time: 911011 21:14
 Injected at: 911011 21:14
 Dilution Factor: 1.00000

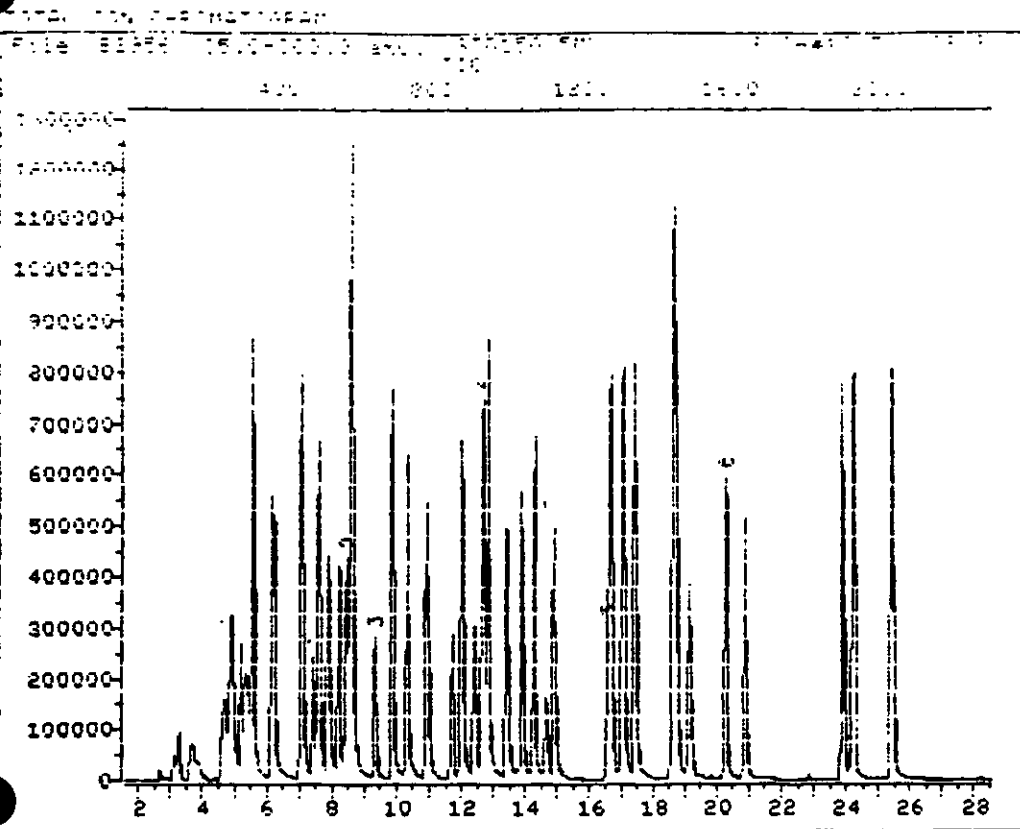
ID File: 004102:\$.
 Title: HSL VOLATILES:105mmx.53mm:UB624:02:ERDOZENBELU
 Last Calibration: 911011 20:54

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.45	128.0		162023	50.00	UG/L	80
2)	C010 Chloromethane	3.08	50.0		152111	113.95	UG/L	99
3)	C020 Vinyl Chloride	3.21	62.0		287133	103.78	UG/L	87
4)	C015 Bromomethane	3.63	94.0		198927	70.79	UG/L	92
5)	C025 Chloroethane	3.81	64.0		159399	77.91	UG/L	94
6)	C045 1,1-Dichloroethene	4.60	96.0		75232	20.71	UG/L	94
7)	C035 Acetone	4.66	43.0		99259	28.17	UG/L	100
8)	C040 Carbon Disulfide	4.92	76.0		1449057	89.70	UG/L	100
9)	C030 Methylene Chloride	5.20	84.0		190922	111.50	UG/L	88
10)	C053 Trans-1,2-Dichloroethene	5.57	96.0		578426	94.60	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.06	96.0		631526	93.89	UG/L	89
12)	C050 1,1-Dichloroethane	6.17	63.0		1064475	90.40	UG/L	90
13)	C060 Chloroform	7.60	83.0		1040575	90.64	UG/L	88
14)	C065 1,2-Dichloroethane	8.61	62.0		702437	92.46	UG/L	100
15)	C110 2-Butanone	7.10	43.0		296318	80.62	UG/L	95
16)	CS15 D4-1,2-Dichloroethane	8.47	65.0		486551	94.10	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.35	114.0		720617	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.25	43.0		1327889	94.07	UG/L	99
19)	C115 1,1,1-Trichloroethane	7.92	97.0		640995	98.54	UG/L	92
20)	C120 Carbon Tetrachloride	8.22	117.0		612243	101.98	UG/L	98
21)	C165 Benzene	8.58	78.0		1648423	90.11	UG/L	100
22)	C150 Trichloroethene	9.87	130.0		601110	100.13	UG/L	99
23)	C140 1,2-Dichloropropane	10.32	63.0		631434	102.72	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0		839058	98.96	UG/L	82
25)	C175 2-Chloroethylvinylether	11.70	63.0		341631	112.52	UG/L	97
26)	C143 Cis-1,3-Dichloropropen	12.02	75.0		974344	109.48	UG/L	94
27)	C172 Trans-1,3-Dichloropropen	13.42	75.0		644635	93.41	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.88	97.0		460975	97.32	UG/L	72
29)	C155 Dibromochloromethane	14.91	129.0		646440	98.65	UG/L	97
30)	C180 Bromoform	19.12	173.0		440022	94.87	UG/L	97
31)	*C120 D5-Chlorobenzene	16.56	117.0		536074	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0		1334719	94.29	UG/L	87
33)	C205 4-Methyl-2-Pentanone	12.42	43.0		606224	98.62	UG/L	85
34)	C230 Toluene	12.84	92.0		982597	104.29	UG/L	85
35)	C210 2-Hexanone	14.64	43.0		334809	98.20	UG/L	98
36)	C220 Tetrachloroethene	14.25	164.0		450223	104.30	UG/L	88
37)	C235 Chlorobenzene	16.64	112.0		1123494	100.50	UG/L	78
38)	C240 Ethylbenzene	17.05	106.0		518655	100.06	UG/L	97
39)	CXXX Xylene (p)	17.43	106.0		642240	105.65	UG/L	95
40)	CXXX Xylenes (o)	18.61	106.0		631530	96.80	UG/L	99
41)	C245 Styrene	18.67	104.0		1066755	101.31	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.84	83.0		851411	92.87	UG/L	94
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0		426247	95.52	UG/L	81

000159

	Compound		Area	Height	Area	Height
441	0375	Dichlorobenzene (m)	17.00	146.0	417011	104.0
442	0380	Dichlorobenzene (p)	24.17	146.0	1023402	111.11
461	0380	Dichlorobenzene (o)	25.26	146.0	1015395	105.24
471	0250	Xylene (total)	18.61	106.0	627068	48.25

• Compound is ISTD



Data File: >B2956::D6
 Name: USTD150 5ML
 Misc: U2 CH#13 5UL IS/S

Quant Output File: ^B2956::QT

Id File: VDAID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO
 Last Calibration: 911011 20:54

Operator ID: NORA
 Quant Time: 911011 22:30
 Injected at: 911011 21:59

Operator: JG: NGH
 Output File: E:\r0101
 Data File: BC-55:06
 Name: J510150 50L
 Misc: U2 LH#13 5LL 15-5

Quant. Method: Quant. Time: 911011 20:54
 Injected at: 911011 20:54
 Dilution Factor: 1.0000

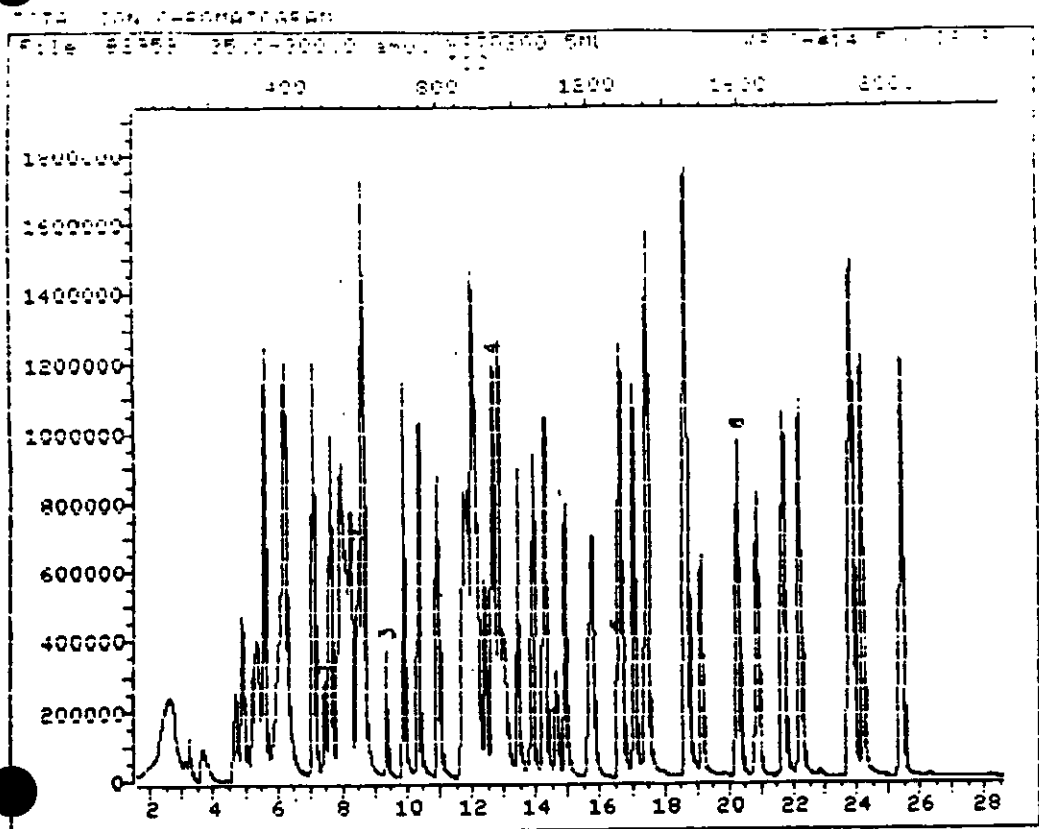
ID File: U0AID2:11
 Title: HSL VL FILE5:105mmx.53mm:UB624:U2:EPD04EN5ELU
 Last Calibration: 911011 20:54

	Compound	R.T.	Q	Ion	Area	Conc	Units	g
1)	*C101	2.42	128.0		158267	50.00	UG/L	79
2)	C010	3.10	50.0		206729	158.54	UG/L	97
3)	C020	3.24	62.0		378399	140.01	UG/L	88
4)	C015	3.65	94.0		257677	93.87	UG/L	94
5)	C025	3.85	64.0		207639	103.89	UG/L	97
6)	C045	4.58	96.0		61506	17.33	UG/L	91
7)	C035	4.63	43.0		151366	43.97	UG/L	100
8)	C040	4.91	76.0		1878198	119.02	UG/L	100
9)	C030	5.17	84.0		235766	140.96	UG/L	88
10)	C053	5.55	96.0		776099	129.94	UG/L	97
11)	C055	7.03	96.0		870635	132.51	UG/L	94
12)	C050	6.14	63.0		1454347	126.44	UG/L	92
13)	C060	7.57	83.0		1424017	126.99	UG/L	94
14)	C065	8.59	62.0		984918	132.72	UG/L	100
15)	C110	7.07	43.0		444066	123.68	UG/L	97
16)	CS15	8.44	65.0		690070	136.63	UG/L	88
17)	*C110	9.32	114.0		659180	50.00	UG/L	100
18)	C125	6.23	43.0		1876894	145.36	UG/L	96
19)	C115	7.89	97.0		885103	148.76	UG/L	92
20)	C120	8.19	117.0		839939	152.95	UG/L	98
21)	C165	8.56	78.0		2190746	130.92	UG/L	100
22)	C150	9.85	130.0		825140	150.25	UG/L	98
23)	C140	10.30	63.0		890473	158.37	UG/L	100
24)	C130	10.94	83.0		1151988	148.53	UG/L	96
25)	C175	11.67	63.0		453930	163.44	UG/L	96
26)	C143	11.99	75.0		1305254	160.33	UG/L	90
27)	C172	13.41	75.0		904824	143.33	UG/L	100
28)	C160	13.86	97.0		640702	147.87	UG/L	71
29)	C155	14.91	129.0		896083	149.49	UG/L	93
30)	C180	19.14	173.0		632185	149.01	UG/L	96
31)	*C120	16.56	117.0		471247	50.00	UG/L	100
32)	CS05	12.66	98.0		1725492	138.67	UG/L	97
33)	C205	12.41	43.0		846074	156.58	UG/L	85
34)	C230	12.82	92.0		1281353	154.71	UG/L	94
35)	C210	14.64	43.0		422289	140.90	UG/L	99
36)	C220	14.24	164.0		595969	157.06	UG/L	88
37)	C235	16.64	112.0		1476219	150.22	UG/L	82
38)	C240	17.05	106.0		683199	149.94	UG/L	96
39)	CXXX	17.43	106.0		854518	159.90	UG/L	95
40)	CXXX	18.61	106.0		833983	145.42	UG/L	99
41)	C245	18.68	104.0		1338406	144.59	UG/L	100
42)	C225	20.86	83.0		1192768	147.99	UG/L	88
43)	CS10	20.26	95.0		796464	138.19	UG/L	82

000162

Peak	Retention Time	Compound	Area	Height	Width	Integration	Response
45	13.28	Dichlorobenzene (m)	1271106	145.0	13.28	145.0	1271106
46	14.18	Dichlorobenzene (p)	1264117	145.0	14.18	145.0	1264117
46	14.20	Dichlorobenzene (o)	1249163	145.0	14.20	145.0	1249163
47	18.61	Xylene (Total)	835941	106.0	18.61	106.0	835941

* Compound is 1510



Data File: >B2959::D6
 Name: USTD200 5ML
 Misc: V2 CH#14 5UL IS/S

Quant Output File: ^B2959::QT

Id File: UDAID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 911011 20:54

Operator ID: NDRA
 Quant Time: 911012 00:54
 Injected at: 911012 00:25

Operator ID: NBFH
 Output File: AB2489:101
 Data File: AB2489:106
 Name: VSTD200 5ML
 Misc: U2 LH#14 5UL 15/5

Quant. Method: Quant. Method
 Injected at: 911011 20:54
 Dilution Factor: 1.00000

ID File: MUAIDM:11\$
 Title: HSL VIALFILES:105mmx.50mm:DB624:U2:ERUD/PENBELL
 Last Calibration: 911011 20:54

	Compound	R.T.	Quan	Area	Conc	Units	g
1)	*C101 Bromochloromethane	7.44	128.0	179140	50.00	UG/L	82
2)	C010 Chloromethane	3.06	50.0	191336	129.64	UG/L	95
3)	C020 Vinyl Chloride	3.21	62.0	421456	137.77	UG/L	87
4)	C015 Bromomethane	3.61	94.0	284717	91.64	UG/L	92
5)	C025 Chloroethane	3.81	64.0	259177	114.57	UG/L	97
6)	C045 1,1-Dichloroethene	4.69	96.0	416520	103.68	UG/L	88
7)	C035 Acetone	4.66	43.0	183334	47.05	UG/L	100
8)	C040 Carbon Disulfide	4.90	76.0	2196104	122.95	UG/L	100
9)	C030 Methylene Chloride	5.20	84.0	278786	147.26	UG/L	89
10)	C053 Trans-1,2-Dichloroethene	5.57	96.0	1165173	172.35	UG/L	98
11)	C055 cis-1,2-Dichloroethene	7.06	96.0	1346925	181.11	UG/L	96
12)	C050 1,1-Dichloroethane	6.17	63.0	2178040	167.29	UG/L	92
13)	C060 Chloroform	7.60	83.0	2218189	174.76	UG/L	86
14)	C065 1,2-Dichloroethane	8.61	62.0	1510287	179.81	UG/L	100
15)	C110 2-Butanone	7.10	43.0	773030	190.22	UG/L	97
16)	CS15 D4-1,2-Dichloroethane	8.46	65.0	1031606	180.46	UG/L	78
17)	*C110 1,4-Difluorobenzene	9.34	114.0	842659	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.26	43.0	2468971	149.58	UG/L	85
19)	C115 1,1,1-Trichloroethane	7.92	97.0	1293781	170.10	UG/L	99
20)	C120 Carbon Tetrachloride	8.21	117.0	1263219	179.95	UG/L	98
21)	C165 Benzene	8.59	78.0	2954016	138.09	UG/L	100
22)	C150 Trichloroethene	9.86	130.0	1298161	184.92	UG/L	99
23)	C140 1,2-Dichloropropane	10.32	63.0	1446581	201.25	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0	1868945	188.50	UG/L	74
25)	C175 2-Chloroethylvinylether	11.69	63.0	989824	278.80	UG/L	88
26)	C143 Cis-1,3-Dichloropropen	12.00	75.0	2121970	203.90	UG/L	72
27)	C172 Trans-1,3-Dichloropropen	13.42	75.0	1534413	190.14	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.87	97.0	1117874	201.83	UG/L	70
29)	C155 Dibromochloromethane	14.91	129.0	1492493	194.78	UG/L	98
30)	C180 Bromoform	19.12	173.0	1097615	202.39	UG/L	92
31)	*C120 D5-Chlorobenzene	16.55	117.0	603214	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0	2782230	174.68	UG/L	89
33)	C205 4-Methyl-2-Pentanone	12.42	43.0	1492776	215.82	UG/L	79
34)	C230 Toluene	12.82	92.0	2222251	209.61	UG/L	63
35)	C210 2-Hexanone	14.64	43.0	798038	208.02	UG/L	99
36)	C220 Tetrachloroethene	14.24	164.0	995502	204.96	UG/L	74
37)	C235 Chlorobenzene	16.65	112.0	2370742	188.46	UG/L	79
38)	C240 Ethylbenzene	17.05	106.0	1117386	191.58	UG/L	76
39)	CXXX Xylene (p)	17.44	106.0	1250824	182.85	UG/L	94
40)	CXXX Xylenes (o)	18.61	106.0	1260494	171.71	UG/L	94
41)	C245 Styrene	18.68	104.0	2032593	171.55	UG/L	70
42)	C225 1,1,2,2-Tetrachloroethan	20.85	83.0	1888659	183.07	UG/L	76
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0	1330538	180.35	UG/L	86

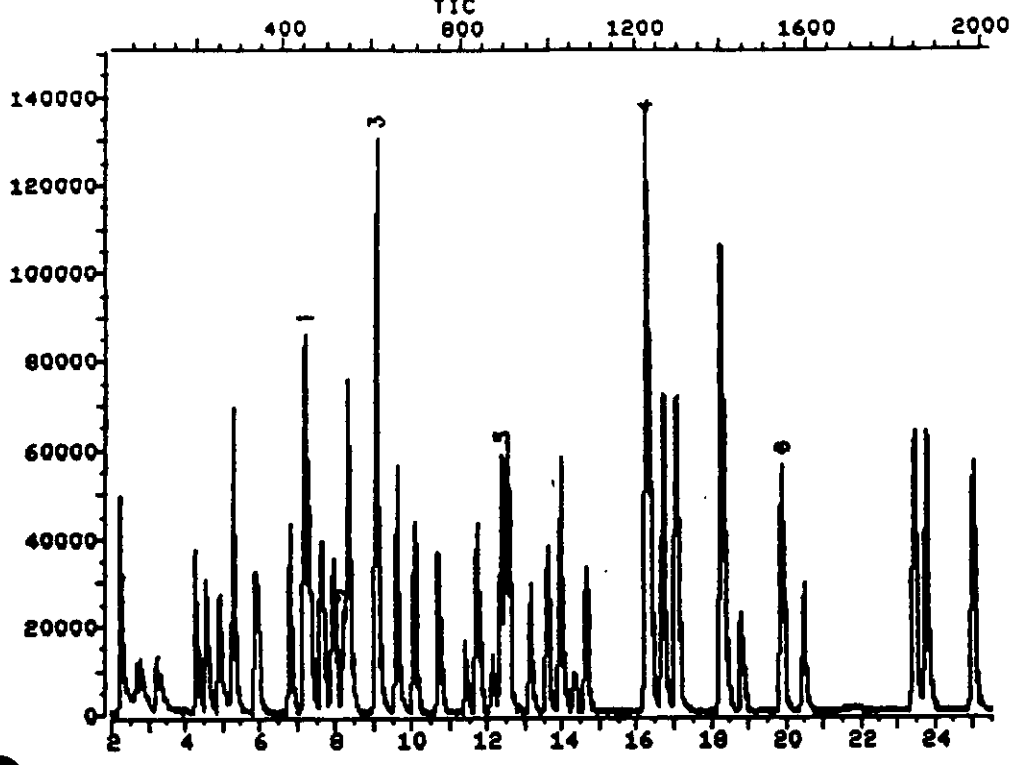
000165

	Compound	Area	Height	Area	Height	Area	Height	
41	C125	1,1-Dichlorobenzene (m)	17.91	146.0	14175.10	136.12	UB/L	100
42	C140	Dichlorobenzene (p)	14.17	146.0	17671.20	141.45	UB/L	100
43	C150	Dichlorobenzene (o)	25.39	146.0	17813.00	133.06	UB/L	100
47	C250	Xylene (total)	12.61	106.0	12706.22	174.14	UB/L	50

* Compound is 1510

TOTAL ION CHROMATOGRAM

File >F2560 35.0-300.0 amu. VSTD 20NG. 5ML. U6, CH#02, 5UL(20 IS



Data File: >F2560::D4

Quant Output File: ^F2560::D7

Name: USTD 20NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 13:49

Injected at: 910922 13:22

000167

QUANT REPORT

Page 1

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 13:49
 Output File: ^F2560::D7 Injected at: 910922 13:22
 Data File: >F2560::D4 Dilution Factor: 1.00000
 Name: USTD 20NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qual Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.20	128.0	66164	50.00	UG/L	64
2)	C010 Chloromethane	2.65	50.0	36001	20.90	UG/L	99
3)	C020 Vinyl Chloride	2.79	62.0	37017	21.21	UG/L	87
4)	C015 Bromomethane	3.19	94.0	35029	24.07	UG/L	92
5)	C025 Chloroethane	3.32	64.0	22151M	23.15	UG/L	96
6)	C045 1,1-Dichloroethene	4.29	96.0	42246	22.43	UG/L	91
7)	C035 Acetone	4.36	43.0	7226	28.69	UG/L	30
8)	C040 Carbon Disulfide	4.57	76.0	120197	22.71	UG/L	100
9)	C030 Methylene Chloride	4.92	84.0	50135	22.91	UG/L	91
10)	CXXX Tert-butyl alcohol	5.07	59.0	1147M	12.07	UG/L	
11)	C053 Trans-1,2-dichloroethene	5.29	96.0	51105	22.59	UG/L	95
12)	C055 Cis-1,2-dichloroethene	6.80	96.0	55446	22.80	UG/L	95
13)	CXXX Methyl tert-butyl ether	5.28	73.0	76693	20.61	UG/L	90
14)	C050 1,1-Dichloroethane	5.88	63.0	96940	23.46	UG/L	100
15)	C060 Chloroform	7.33	83.0	111460	22.77	UG/L	94
16)	C065 1,2-Dichloroethane	8.37	62.0	63812	23.18	UG/L	100
17)	C110 2-Butanone	6.83	72.0	2791	18.63	UG/L	90
18)	CS15 D4-1,2-dichloroethane	8.21	65.0	50708	22.23	UG/L	87
19)	*C110 1,4-Difluorobenzene	9.08	114.0	362515	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.96	43.0	78027	17.83	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.67	97.0	88029	21.72	UG/L	97
22)	C120 Carbon Tetrachloride	7.96	117.0	74521	21.31	UG/L	98
23)	C165 Benzene	8.32	78.0	161518	22.98	UG/L	100
24)	C150 Trichloroethene	9.59	130.0	65720	22.79	UG/L	95
25)	C140 1,2-Dichloropropane	10.08	63.0	61152	20.89	UG/L	100
26)	C130 Bromodichloromethane	10.70	83.0	93377	22.16	UG/L	91
27)	C175 2-Chloroethylvinylether	11.41	63.0	28001	20.80	UG/L	96
28)	C143 Cis-1,3-Dichloropropene	11.73	75.0	91930	22.30	UG/L	94
29)	C172 Trans-1,3-dichloropropene	13.13	75.0	63203	19.51	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.60	97.0	47273	21.36	UG/L	75
31)	C155 Dibromochloromethane	14.64	129.0	69711	20.36	UG/L	98
32)	C180 Bromoform	18.81	173.0	38349	18.68	UG/L	99
33)	*C120 D5-Chlorobenzene	16.24	117.0	292082	50.00	UG/L	100
34)	CS05 D8-Toluene	12.36	98.0	153965	21.03	UG/L	93
35)	C205 4-Methyl-2-pentanone	12.14	43.0	42184	22.67	UG/L	90
36)	C230 Toluene	12.53	92.0	105957	21.29	UG/L	80
37)	C210 2-Hexanone	14.33	43.0	28149	19.84	UG/L	97
38)	C220 Tetrachloroethene	13.94	164.0	54447	21.32	UG/L	96
39)	C235 Chlorobenzene	16.32	112.0	129024	20.92	UG/L	75
40)	C240 Ethylbenzene	16.70	106.0	64766	21.04	UG/L	94
41)	CXXX Xylenes (p)	17.08	106.0	85811	21.55	UG/L	95
42)	CXXX Xylenes (o)	18.26	106.0	77264	21.35	UG/L	99

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QUANT REPORT

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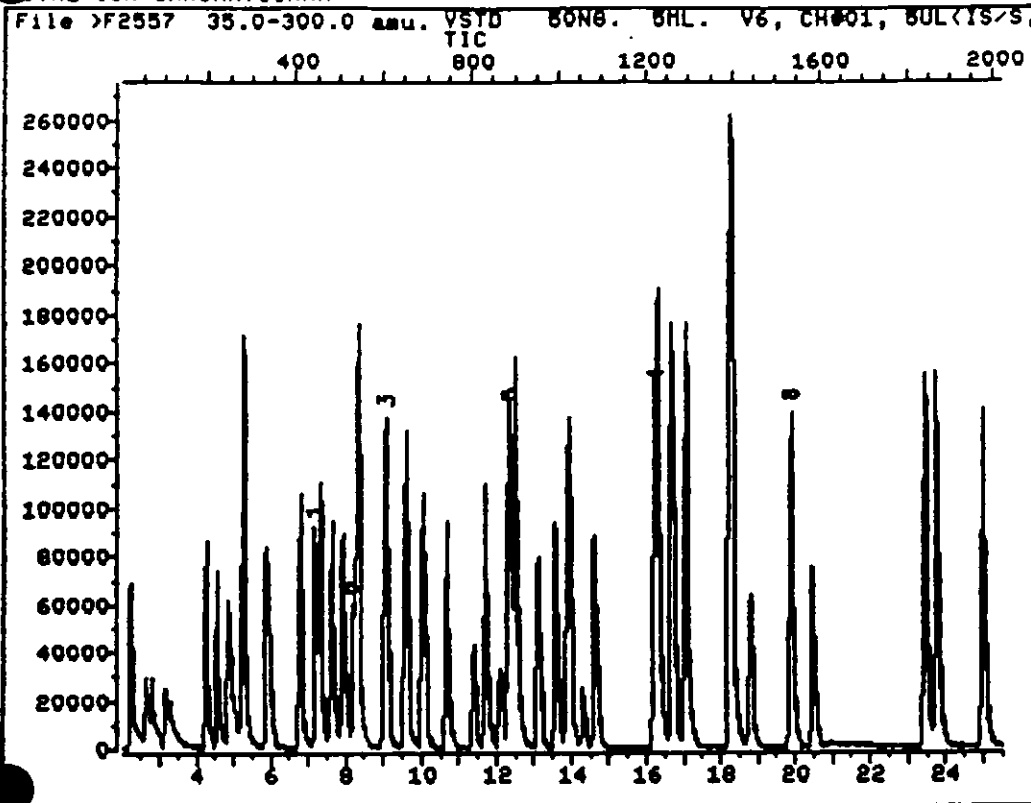
Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 13:49
 Output File: ^F2560::D7 Injected at: 910922 13:22
 Data File: >F2560::D4 Dilution Factor: 1.00000
 Name: USTD 20NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Cal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	71037	20.06	UG/L	90
45)	CS10 Bromofluorobenzene	19.90	95.0	89608	20.84	UG/L	72
46)	C335 Dichlorobenzene (m)	23.46	146.0	112165	20.58	UG/L	100
47)	C340 Dichlorobenzene (p)	23.78	146.0	104930	21.20	UG/L	100
48)	C350 Dichlorobenzene (o)	25.01	146.0	106197	21.34	UG/L	100
49)	C250 Xylenes (total)	18.26	106.0	75196	20.79	UG/L	91

* Compound is ISTD

STAT ION CHROMATOGRAM



Data File: >F2557::D4

Quant Output File: ^F2557::D7

Name: USTD 50NG. 5ML.

Instrument ID: U6

Misc: U6, CH#01, 5UL<IS/S, MTBE, TBA), STD=25UL/100ML HSL,A

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910918 21:59

Operator ID: KERYLYNN

Quant Time : 910922 11:37

Injected at: 910922 11:10

006170

QUANT REPORT

Page 1

Operator ID: KERYLYNN
 Output File: ^F2557::D7
 Data File: >F2557::D4
 Name: USTD 50NG. 5ML.
 Misc: U6, CH#01, 5UL(IS/S, MTBE, TBA), STD=25UL/100ML HSL,A

Quant Rev: 7
 Quant Time: 910922 11:37
 Injected at: 910922 11:10
 Dilution Factor: 1.00000
 Instrument ID: U6

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37
 Last Qcal Time: 910918 21:59

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.17	128.0		72616	50.00	UG/L	70
2)	C010 Chloromethane	2.65	50.0		94512	74.65	UG/L	99
3)	C020 Vinyl Chloride	2.78	62.0		95768	61.62	UG/L	93
4)	C015 Bromomethane	3.16	94.0		79846	49.64	UG/L	94
5)	C025 Chloroethane	3.29	64.0		52513M	50.84	UG/L	98
6)	C045 1,1-Dichloroethene	4.27	96.0		103350	50.18	UG/L	84
7)	C035 Acetone	4.34	43.0		13823	48.47	UG/L	23
8)	C040 Carbon Disulfide	4.56	76.0		290422	49.86	UG/L	100
9)	C030 Methylene Chloride	4.90	84.0		120111	49.96	UG/L	91
10)	CXXX Tert-butyl alcohol	5.06	59.0		5214M	51.56	UG/L	
11)	C053 Trans-1,2-dichloroethene	5.27	96.0		124123	49.89	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.79	96.0		133461	52.07	UG/L	97
13)	CXXX Methyl tert-butyl ether	5.27	73.0		204169	47.71	UG/L	87
14)	C050 1,1-Dichloroethane	5.88	63.0		226786	49.15	UG/L	100
15)	C060 Chloroform	7.31	83.0		268649	49.77	UG/L	98
16)	C065 1,2-Dichloroethane	8.34	62.0		151088	49.69	UG/L	100
17)	C110 2-Butanone	6.81	72.0		8219	49.63	UG/L	91
18)	CS15 D4-1,2-dichloroethane	8.21	65.0		125151	55.05	UG/L	87
19)	*C110 1,4-Difluorobenzene	9.06	114.0		389063	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0		234819	166.62	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.64	97.0		217439	49.11	UG/L	91
22)	C120 Carbon Tetrachloride	7.93	117.0		187662	45.28	UG/L	96
23)	C165 Benzene	8.31	78.0		377123	47.20	UG/L	100
24)	C150 Trichloroethene	9.58	130.0		154733	45.96	UG/L	99
25)	C140 1,2-Dichloropropane	10.05	63.0		157115	47.90	UG/L	100
26)	C130 Bromodichloromethane	10.66	83.0		226079	48.59	UG/L	74
27)	C175 2-Chloroethylvinylether	11.39	63.0		72247	51.23	UG/L	98
28)	C143 Cis-1,3-Dichloropropene	11.72	75.0		234502	51.26	UG/L	93
29)	C172 Trans-1,3-dichloropropene	13.12	75.0		159892	48.88	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.57	97.0		118735	50.42	UG/L	72
31)	C155 Dibromochloromethane	14.62	129.0		183774	50.15	UG/L	96
32)	C180 Bromoform	18.81	173.0		110158	51.82	UG/L	97
33)	*C120 D5-Chlorobenzene	16.23	117.0		301138	50.00	UG/L	100
34)	CS05 D8-Toluene	12.34	98.0		377478	50.56	UG/L	95
35)	C205 4-Methyl-2-pentanone	12.11	43.0		95924	41.87	UG/L	82
36)	C230 Toluene	12.52	92.0		256595	48.56	UG/L	91
37)	C210 2-Hexanone	14.31	43.0		73156	51.18	UG/L	97
38)	C220 Tetrachloroethene	13.92	164.0		131665	47.47	UG/L	93
39)	C235 Chlorobenzene	16.31	112.0		317994	47.91	UG/L	75
40)	C240 Ethylbenzene	16.68	106.0		158712	49.37	UG/L	96
41)	CXXX Xylenes (p)	17.07	106.0		205258M	55.82	UG/L	96
42)	CXXX Xylenes (o)	18.25	106.0		186544	47.97	UG/L	96
43)	CXXX Xylenes (m)	18.78	106.0		184783	50.44	UG/L	100

000172

QUANT REPORT

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Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 11:37
 Output File: ^F2557::D7 Injected at: 910922 11:10
 Data File: >F2557::D4 Dilution Factor: 1.00000
 Name: USTD 50NG. 5ML. Instrument ID: U6
 Misc: U6, CH#01, 5UL(IS/S, MTBE, TBA), STD-25UL/100ML HSL,A

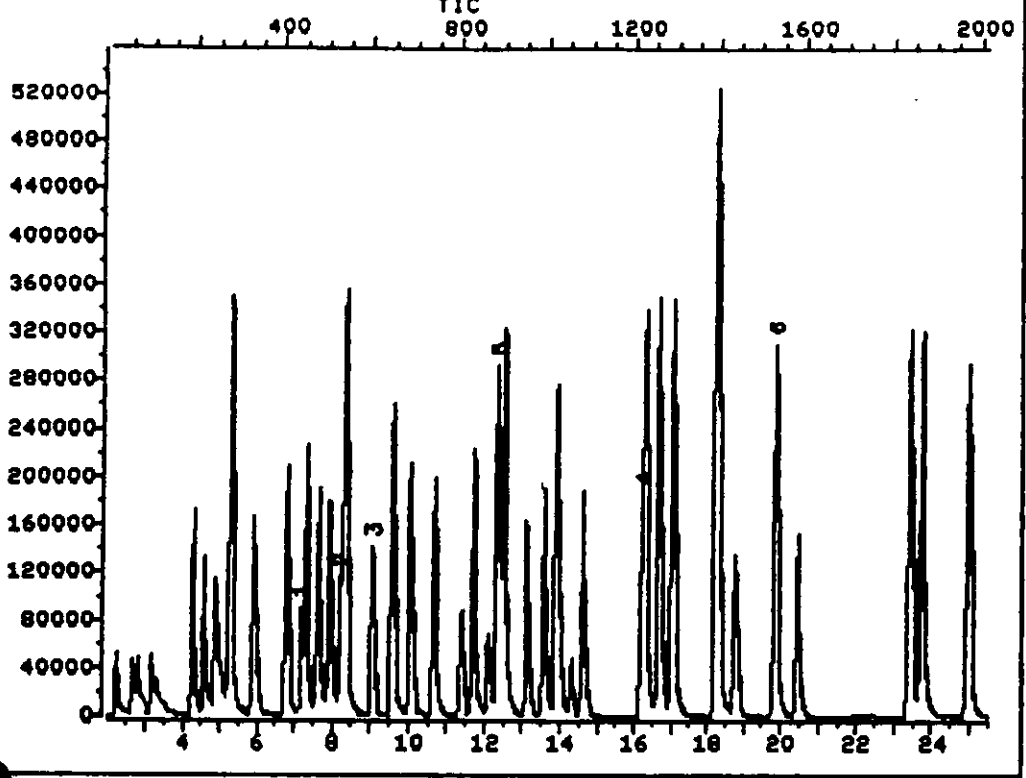
ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910918 21:59

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	182548	53.82	UG/L	96
45)	CS10 Bromofluorobenzene	19.88	95.0	221701	53.12	UG/L	76
46)	C335 Dichlorobenzene (m)	23.44	146.0	280976	60.57	UG/L	100
47)	C340 Dichlorobenzene (p)	23.77	146.0	255152	59.38	UG/L	100
48)	C350 Dichlorobenzene (o)	25.00	146.0	256534	56.04	UG/L	100
49)	C250 Xylenes (total)	18.25	106.0	186423	50.92	UG/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File >F2561 35.0-300.0 amu. VSTD 100NB. 5ML. V6, CH#02, 5UL(100IS



Data File: >F2561::D4

Quant Output File: ^F2561::D7

Name: USTD 100NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(100IS/S), STD=25UL/ 50ML HSL,A,B+ MTBE

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 14:24

Injected at: 910922 13:57

QUANT REPORT

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Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 14:24
 Output File: ^F2561::D7 Injected at: 910922 13:57
 Data File: >F2561::D4 Dilution Factor: 1.00000
 Name: USTD 100NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(100IS/S), STD=25UL/ 50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.17	128.0	70645	50.00	UG/L	71
2)	C010 Chloromethane	2.66	50.0	174253	94.76	UG/L	97
3)	C020 Vinyl Chloride	2.80	62.0	179744	96.46	UG/L	87
4)	C015 Bromomethane	3.18	94.0	143619	92.44	UG/L	97
5)	C025 Chloroethane	3.29	64.0	92542M	90.57	UG/L	97
6)	C045 1,1-Dichloroethene	4.27	96.0	198396	98.66	UG/L	97
7)	C035 Acetone	4.35	43.0	28415	105.65	UG/L	19
8)	C040 Carbon Disulfide	4.56	76.0	600925	106.34	UG/L	100
9)	C030 Methylene Chloride	4.90	84.0	240774	103.03	UG/L	89
	CXXX Tert-butyl alcohol	5.10	59.0	11539	113.74	UG/L	54
11)	C053 Trans-1,2-dichloroethene	5.27	96.0	247144	102.33	UG/L	91
12)	C055 Cis-1,2-dichloroethene	6.79	96.0	272101	104.78	UG/L	88
13)	CXXX Methyl tert-butyl ether	5.28	73.0	448446	112.89	UG/L	88
14)	C050 1,1-Dichloroethane	5.88	63.0	459872	104.22	UG/L	100
15)	C060 Chloroform	7.31	83.0	542393	103.76	UG/L	99
16)	C065 1,2-Dichloroethane	8.35	62.0	316160	107.55	UG/L	100
17)	C110 2-Butanone	6.80	72.0	16990	106.24	UG/L	90
18)	CS15 D4-1,2-dichloroethane	8.20	65.0	246549	101.25	UG/L	88
19)	*C110 1,4-Difluorobenzene	9.05	114.0	394127	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0	419012	88.07	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.63	97.0	438774	99.60	UG/L	91
22)	C120 Carbon Tetrachloride	7.93	117.0	375523	98.77	UG/L	94
23)	C165 Benzene	8.30	78.0	763423	99.92	UG/L	100
24)	C150 Trichloroethene	9.59	130.0	323845	103.30	UG/L	88
25)	C140 1,2-Dichloropropene	10.05	63.0	316223	99.34	UG/L	100
26)	C130 Bromodichloromethane	10.66	83.0	483261	105.51	UG/L	82
27)	C175 2-Chloroethylvinylether	11.39	63.0	146485	100.08	UG/L	97
28)	C143 Cis-1,3-Dichloropropene	11.70	75.0	494607	110.35	UG/L	97
29)	C172 Trans-1,3-dichloropropene	13.11	75.0	336392	95.53	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.57	97.0	240907	100.14	UG/L	79
31)	C155 Dibromochloromethane	14.60	129.0	397912	106.87	UG/L	94
32)	C180 Bromoform	18.77	173.0	237517	106.42	UG/L	94
33)	*C120 D5-Chlorobenzene	16.22	117.0	333225	50.00	UG/L	100
34)	CS05 D8-Toluene	12.35	98.0	767265	91.84	UG/L	94
	C205 4-Methyl-2-pentanone	12.10	43.0	207706	97.84	UG/L	86
36)	C230 Toluene	12.50	92.0	518033	91.22	UG/L	89
37)	C210 2-Hexanone	14.31	43.0	143237	88.47	UG/L	98
38)	C220 Tetrachloroethene	13.90	164.0	270796	92.93	UG/L	93
39)	C235 Chlorobenzene	16.30	112.0	653477	92.86	UG/L	100
40)	C240 Ethylbenzene	16.67	106.0	311198	88.60	UG/L	97
41)	CXXX Xylenes (p)	17.04	106.0	397865M	87.59	UG/L	99
42)	CXXX Xylenes (o)	18.24	106.0	382684	92.70	UG/L	98

QUANT REPORT

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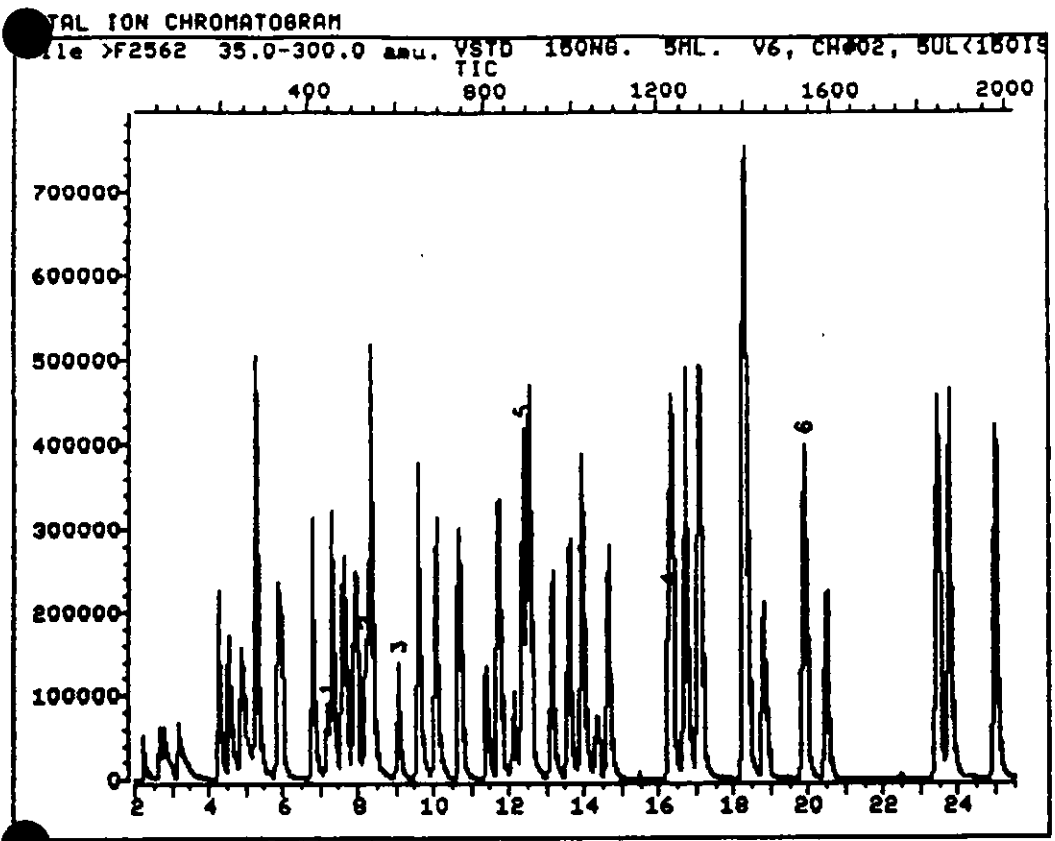
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 Output File: ^F2561::D7 Injected at: 910922 13:57
 Data File: >F2561::D4 Dilution Factor: 1.00000
 Name: USTD 100NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(100IS/S), STD=25UL/ 50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.45	83.0	369800	91.54	UG/L	95
45)	CS10 Bromofluorobenzene	19.86	95.0	494842	100.85	UG/L	67
46)	C335 Dichlorobenzene (m)	23.42	146.0	572130	92.01	UG/L	100
47)	C340 Dichlorobenzene (p)	23.76	146.0	526188	93.18	UG/L	100
48)	C350 Dichlorobenzene (o)	24.97	146.0	526619	92.76	UG/L	100
49)	C250 Xylenes (total)	18.24	106.0	371954	90.15	UG/L	93

* Compound is ISTD

000175



Data File: >F2562::D4 Quant Output File: ^F2562::D7
 Name: USTD 150NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

Id File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN
 Quant Time : 910922 15:02
 Injected at: 910922 14:35

QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:02
 Output File: ^F2562::D7 Injected at: 910922 14:35
 Data File: >F2562::D4 Dilution Factor: 1.00000
 Name: USTD 150NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.19	128.0	71409	50.00	UG/L	65
2)	C010 Chloromethane	2.65	50.0	245105	131.86	UG/L	98
3)	C020 Vinyl Chloride	2.78	62.0	240961	127.93	UG/L	85
4)	C015 Bromomethane	3.15	94.0	198283M	126.26	UG/L	91
5)	C025 Chloroethane	3.28	64.0	117468M	113.74	UG/L	94
6)	C045 1,1-Dichloroethene	4.26	96.0	263121	129.45	UG/L	89
7)	C035 Acetone	4.34	43.0	41564	152.88	UG/L	14
8)	C040 Carbon Disulfide	4.55	76.0	840310	147.12	UG/L	100
9)	C030 Methylene Chloride	4.89	84.0	350805	148.50	UG/L	92
10)	CXXX Tert-butyl alcohol	5.10	59.0	17361M	169.30	UG/L	89
11)	C053 Trans-1,2-dichloroethene	5.26	96.0	348218	142.64	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.78	96.0	394246	150.20	UG/L	99
13)	CXXX Methyl tert-butyl ether	5.29	73.0	680426	169.45	UG/L	88
14)	C050 1,1-Dichloroethane	5.87	63.0	663016	148.65	UG/L	100
15)	C060 Chloroform	7.32	83.0	802553	151.89	UG/L	97
16)	C065 1,2-Dichloroethane	8.34	62.0	447415	150.57	UG/L	100
17)	C110 2-Butanone	6.83	72.0	23274	143.98	UG/L	96
18)	CS15 D4-1,2-dichloroethane	8.20	65.0	360514	146.47	UG/L	90
19)	*C110 1,4-Difluorobenzene	9.05	114.0	377988	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0	602069	131.95	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.64	97.0	611378	144.71	UG/L	96
22)	C120 Carbon Tetrachloride	7.93	117.0	516812	141.73	UG/L	99
23)	C165 Benzene	8.31	78.0	1126805	153.77	UG/L	100
24)	C150 Trichloroethene	9.58	130.0	459944	152.98	UG/L	99
25)	C140 1,2-Dichloropropane	10.04	63.0	459419	150.49	UG/L	100
26)	C130 Bromodichloromethane	10.67	83.0	719287	163.74	UG/L	79
27)	C175 2-Chloroethylvinylether	11.40	63.0	220430	157.02	UG/L	99
28)	C143 Cis-1,3-Dichloropropene	11.72	75.0	739104	171.94	UG/L	98
29)	C172 Trans-1,3-dichloropropene	13.12	75.0	511852	151.57	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.59	97.0	367882	159.46	UG/L	78
31)	C155 Dibromochloromethane	14.64	129.0	591556	165.66	UG/L	98
32)	C180 Bromoform	18.81	173.0	374345	174.89	UG/L	94
33)	*C120 D5-Chlorobenzene	16.26	117.0	289223	50.00	UG/L	100
34)	CS05 D8-Toluene	12.37	98.0	1080178	148.97	UG/L	94
35)	C205 4-Methyl-2-pentanone	12.12	43.0	307252	166.75	UG/L	89
36)	C230 Toluene	12.52	92.0	745978	151.35	UG/L	90
37)	C210 2-Hexanone	14.33	43.0	221742	157.80	UG/L	96
38)	C220 Tetrachloroethene	13.94	164.0	375691	148.55	UG/L	92
39)	C235 Chlorobenzene	16.33	112.0	947878	155.18	UG/L	69
40)	C240 Ethylbenzene	16.70	106.0	446295	146.39	UG/L	95
41)	CXXX Xylenes (p)	17.09	106.0	530855	134.64	UG/L	95
42)							
43)							
44)							
45)							
46)							
47)							
48)							
49)							
50)							

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QUANT REPORT

Page 2

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:02
 Output File: ^F2562::D7 Injected at: 910922 14:35
 Data File: >F2562::D4 Dilution Factor: 1.00000
 Name: USTD 150NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

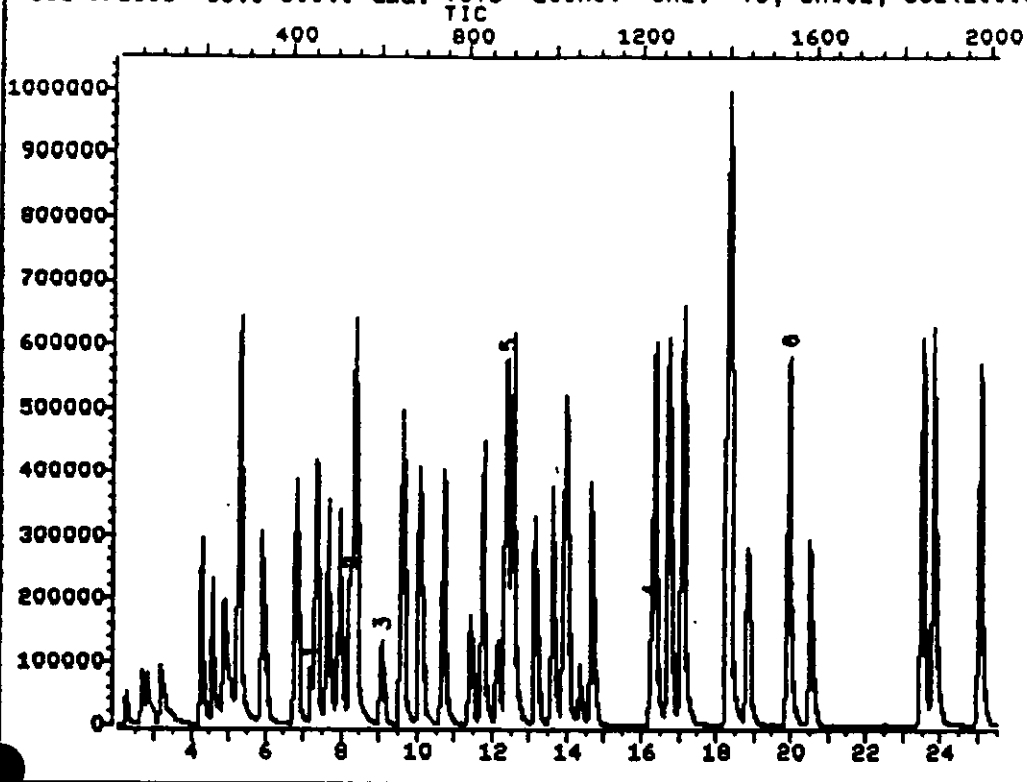
ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	548216	156.34	UG/L	84
45)	CS10 Bromofluorobenzene	19.90	95.0	626399	147.09	UG/L	71
46)	C335 Dichlorobenzene (m)	23.45	146.0	809504	149.99	UG/L	100
47)	C340 Dichlorobenzene (p)	23.77	146.0	752370	153.51	UG/L	100
48)	C350 Dichlorobenzene (o)	24.99	146.0	746636	151.52	UG/L	100
49)	C250 Xylenes (total)	18.26	106.0	520527	145.36	UG/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File >F2563 35.0-300.0 amu. VSTD 200NG. 5ML. U6, CH#02, 5UL(200IS



Data File: >F2563::D4

Quant Output File: ^F2563::D7

Name: VSTD 200NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 15:57

Injected at: 910922 15:30

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QUANT REPORT

Page 1

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:57
 Output File: ^F2563::D7 Injected at: 910922 15:30
 Data File: >F2563::D4 Dilution Factor: 1.00000
 Name: USTD 200NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.19	128.0		69596	50.00	UG/L	72
2)	C010 Chloromethane	2.66	50.0		330885	182.65	UG/L	98
3)	C020 Vinyl Chloride	2.80	62.0		326977	178.12	UG/L	88
4)	C015 Bromomethane	3.18	94.0		253347	165.53	UG/L	96
5)	C025 Chloroethane	3.29	64.0		137303M	136.41	UG/L	93
6)	C045 1,1-Dichloroethane	4.26	96.0		357003	180.21	UG/L	89
7)	C035 Acetone	4.36	43.0		54993	207.55	UG/L	25
8)	C040 Carbon Disulfide	4.56	76.0		1131014	203.17	UG/L	100
	C030 Methylene Chloride	4.90	84.0		453720	197.07	UG/L	78
10)	CXXX Tert-butyl alcohol	5.13	59.0		12869	128.76	UG/L	70
11)	C053 Trans-1,2-dichloroethene	5.27	96.0		451171	189.63	UG/L	91
12)	C055 Cis-1,2-dichloroethene	6.79	96.0		531114	207.61	UG/L	94
13)	CXXX Methyl tert-butyl ether	5.31	73.0		880513	224.99	UG/L	87
14)	C050 1,1-Dichloroethane	5.89	63.0		866766	199.39	UG/L	100
15)	C060 Chloroform	7.33	83.0		1055076	204.89	UG/L	96
16)	C065 1,2-Dichloroethane	8.37	62.0		566691	195.67	UG/L	100
17)	C110 2-Butanone	6.83	72.0		29892	189.74	UG/L	89
18)	CS15 D4-1,2-dichloroethane	8.23	65.0		481320	200.64	UG/L	92
19)	*C110 1,4-Difluorobenzene	9.07	114.0		375720	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.96	43.0		732065	161.41	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.65	97.0		809612	192.78	UG/L	97
22)	C120 Carbon Tetrachloride	7.95	117.0		703159	194.00	UG/L	99
23)	C165 Benzene	8.32	78.0		1443731	198.21	UG/L	100
24)	C150 Trichloroethene	9.62	130.0		611194	204.51	UG/L	91
25)	C140 1,2-Dichloropropane	10.07	63.0		605483	199.53	UG/L	100
26)	C130 Bromodichloromethane	10.69	83.0		960226	219.91	UG/L	79
27)	C175 2-Chloroethylvinylether	11.41	63.0		285259	204.43	UG/L	96
28)	C143 Cis-1,3-Dichloropropene	11.74	75.0		1010029	236.38	UG/L	95
29)	C172 Trans-1,3-dichloropropene	13.14	75.0		684649	203.96	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.61	97.0		476300	207.70	UG/L	80
31)	C155 Dibromochloromethane	14.64	129.0		789823	222.52	UG/L	95
32)	C180 Bromoform	18.85	173.0		500712	235.34	UG/L	98
33)	*C120 D5-Chlorobenzene	16.26	117.0		311099	50.00	UG/L	100
	CS05 D8-Toluene	12.37	98.0		1568348	201.09	UG/L	96
	C205 4-Methyl-2-pentanone	12.16	43.0		389618	196.58	UG/L	86
36)	C230 Toluene	12.54	92.0		990574	186.84	UG/L	89
37)	C210 2-Hexanone	14.35	43.0		280453	185.54	UG/L	96
38)	C220 Tetrachloroethane	13.94	164.0		506318	186.12	UG/L	93
39)	C235 Chlorobenzene	16.34	112.0		1304165	198.50	UG/L	70
40)	C240 Ethylbenzene	16.72	106.0		601155	183.32	UG/L	92
41)	CXXX Xylenes (p)	17.10	106.0		761941M	179.66	UG/L	99
42)	CXXX Xylenes (o)	18.29	106.0		732520	190.05	UG/L	99

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QUANT REPORT

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Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:57
 Output File: ^F2563::D7 Injected at: 910922 15:30
 Data File: >F2563::D4 Dilution Factor: 1.00000
 Name: USTD 200NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

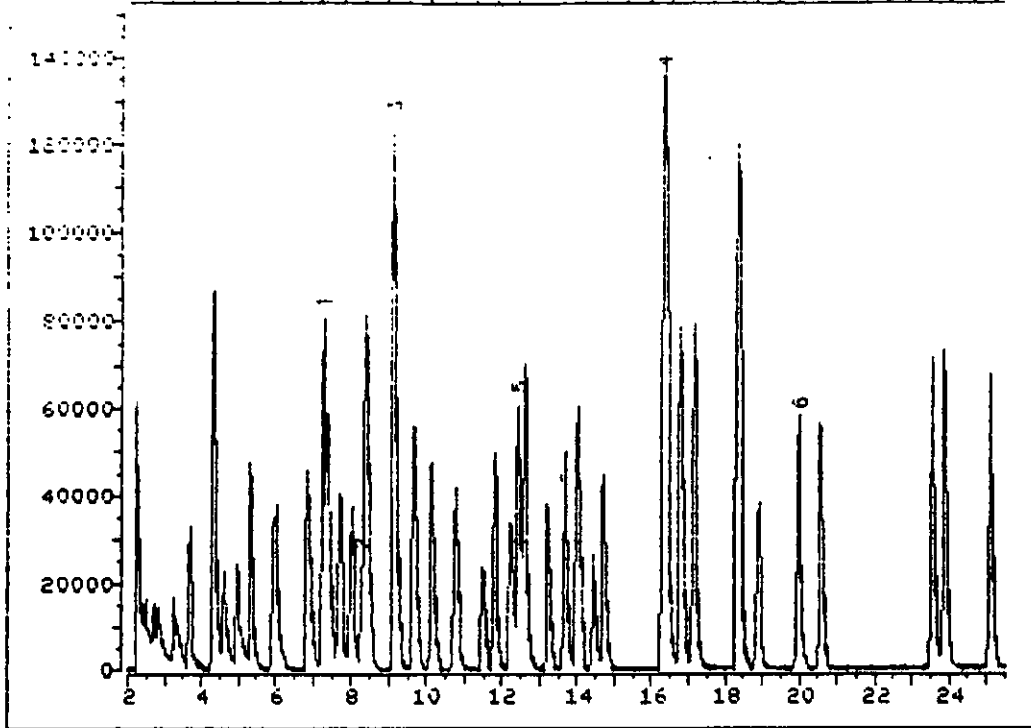
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.53	83.0	722312	191.51	UG/L	96
45)	CS10 Bromofluorobenzene	19.94	95.0	921157	201.10	UG/L	72
46)	C335 Dichlorobenzene (m)	23.50	146.0	1109250	191.07	UG/L	100
47)	C340 Dichlorobenzene (p)	23.83	146.0	1018106	193.12	UG/L	100
48)	C350 Dichlorobenzene (o)	25.05	146.0	1029257	194.19	UG/L	100
49)	C250 Xylenes (total)	18.29	106.0	723402	187.81	UG/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File: F2791 35.0-300.0 amu. 4070 20V6. 911008. 911004. CH#01, 5UL IS/S

400 800 1200 1600 2000



Data File: >F2791::D6

Quant Output File: ^F2791::D7

Name: USTD 20NG. 5ML. HTD.

Instrument ID: U6

Misc: U6, CH#01, 5UL IS/S, STD=20UL/200ML HSL,A,B,FREONS, 40

Id File: HAMID6::MT

Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO

Last Calibration: 910408 11:20

Last Qcal Time: 911004 12:08

Operator ID: LIZ

Quant Time : 911008 09:30

Injected at: 911008 09:02

000183

QUANT REPORT

Page 1

Generator ID: L12
 Sample File: F0791:107
 Data File: F0791:106
 Name: METE CONC. 50ML. HTD.
 Misc: M6. CH#01, 50L IS/MS, STD=20UL/200ML HSL,A.B.FREGNS, 40

Quant Re: 1
 Injected Vol: 50.00 µL
 Dilution Factor: 1.00000
 Instrument ID: M6

ID File: HAMID6:MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, M6 HTD ERCO-ENSECO
 Last Calibration: 910408 11:20
 Last Cal Time: 911004 12:08

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.24	128.0		77345	50.00	UG/L	84
2)	C012 Dichlorodifluoromethane	2.44	85.0		39080	13.69	UG/L	80
3)	C010 Chloromethane	2.68	50.0		36711	21.66	UG/L	98
4)	C020 Vinyl Chloride	2.82	62.0		35933	20.21	UG/L	89
5)	C015 Bromomethane	3.22	94.0		42372	29.60	UG/L	94
6)	C025 Chloroethane	3.35	64.0		22768M	24.90	UG/L	89
7)	C028 Trichlorofluoromethane	3.67	101.0		82484	20.84	UG/L	97
8)	C045 1,1-Dichloroethene	4.30	96.0		39977	18.35	UG/L	81
9)	C038 1,1,2-Trichloro-1,2,2-tri	4.30	101.0		91614	41.02	UG/L	94
10)	C035 Acetone	4.42	43.0		13188	12.61	UG/L	15
11)	C040 Carbon Disulfide	4.60	76.0		117479	19.08	UG/L	100
12)	C030 Methylene Chloride	4.95	84.0		56037	21.90	UG/L	90
13)	C053 Trans-1,2-dichloroethene	5.32	96.0		57018	21.07	UG/L	96
14)	C055 Cis-1,2-dichloroethene	6.85	96.0		61355	20.50	UG/L	97
15)	C050 1,1-Dichloroethane	5.93	63.0		110057	21.17	UG/L	100
16)	C060 Chloroform	7.38	83.0		123866	21.16	UG/L	90
17)	C065 1,2-Dichloroethane	8.41	62.0		80689	21.41	UG/L	100
18)	C110 2-Butanone	6.89	72.0		11706	26.32	UG/L	90
19)	CS15 D4-1,2-dichloroethane	8.27	65.0		60876	21.36	UG/L	88
20)	*C110 1,4-Difluorobenzene	9.12	114.0		382718	50.00	UG/L	100
21)	C125 Vinyl Acetate	6.02	43.0		162692	26.67	UG/L	98
22)	C115 1,1,1-Trichloroethane	7.69	97.0		101073	21.05	UG/L	90
23)	C120 Carbon Tetrachloride	8.00	117.0		83339	20.84	UG/L	94
24)	C165 Benzene	8.37	78.0		177399	20.30	UG/L	100
25)	C150 Trichloroethene	9.66	130.0		72243	19.46	UG/L	99
26)	C140 1,2-Dichloropropane	10.12	63.0		73888	20.52	UG/L	100
27)	C130 Bromodichloromethane	10.74	83.0		110918	20.02	UG/L	84
28)	C175 2-Chloroethylvinylether	11.48	63.0		41966	17.67	UG/L	97
29)	C143 Cis-1,3-Dichloropropene	11.79	75.0		111863	21.08	UG/L	95
30)	C172 Trans-1,3-dichloropropene	13.20	75.0		85660	18.88	UG/L	100
31)	C160 1,1,2-Trichloroethane	13.66	97.0		69521	21.64	UG/L	80
32)	C155 Dibromochloromethane	14.70	129.0		97461	20.31	UG/L	95
33)	C180 Bromoform	18.88	173.0		70427	21.60	UG/L	97
34)	*C120 D5-Chlorobenzene	16.32	117.0		304631	50.00	UG/L	100
35)	CS05 D8-Toluene	12.43	98.0		160365	20.84	UG/L	95
36)	C205 4-Methyl-2-pentanone	12.22	43.0		117912	23.85	UG/L	84
37)	C230 Toluene	12.59	92.0		118402	20.33	UG/L	90
38)	C210 2-Hexanone	14.43	43.0		88416	21.98	UG/L	99
39)	C220 Tetrachloroethene	14.00	164.0		60480	19.63	UG/L	85
40)	C235 Chlorobenzene	16.39	112.0		148734	20.53	UG/L	71
41)	C240 Ethylbenzene	16.79	106.0		76620	21.57	UG/L	99
42)	CXXX Xylenes (p)	17.15	106.0		94026M	21.06	UG/L	97

900184

QUANT REPORT

Page 1

Operator ID: LID
 Output File: 92791:07
 Data File: 92791:06
 Name: MST0 20NG. 5ML. HTD.
 Misc: U6, CH#01, 5UL IS IS, STD=20UL/200ML HSL,A,B,FREONS, 40

Client Ref: 7 Client Time: 91108 19:18
 Injected at: 91108 19:18
 Dilution Factor: 1.0000
 Instrument ID: 76

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCC/ENSECO
 Last Calibration: 910408 11:20 Last Qual Time: 911004 12:08

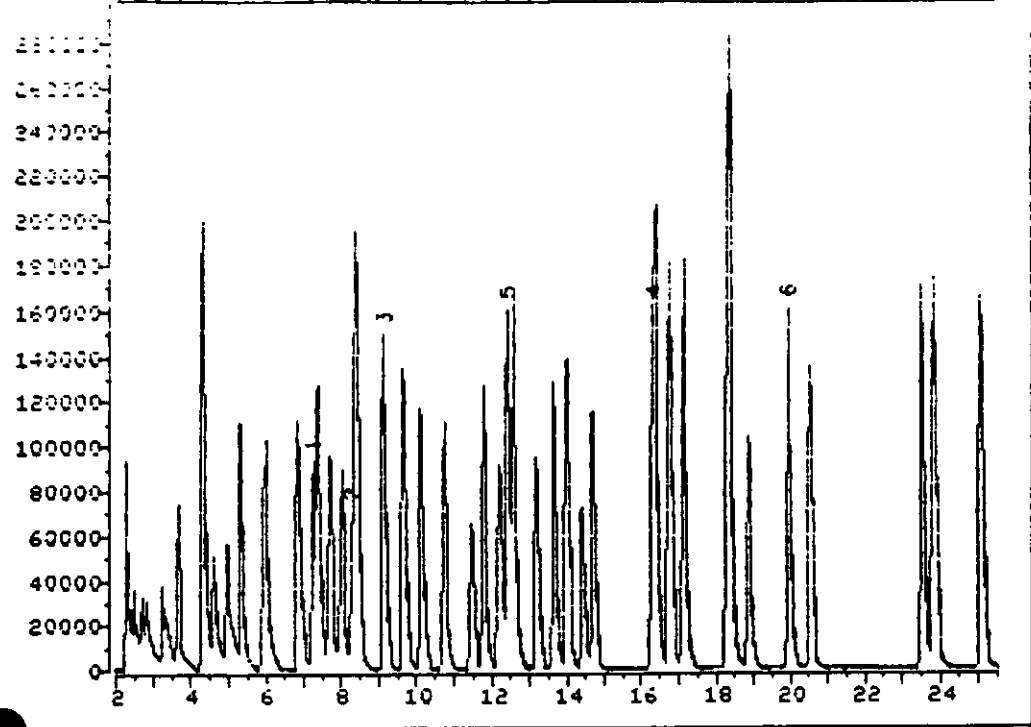
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C245 Styrene	18.39	104.0	159465	20.53	UG/L	100
45)	C225 1,1,2,2-Tetrachloroethane	20.56	83.0	139141	22.25	UG/L	94
46)	CS10 Bromofluorobenzene	19.99	95.0	94859	20.81	UG/L	69
47)	C335 Dichlorobenzene (m)	23.53	146.0	133901	20.79	UG/L	100
48)	C340 Dichlorobenzene (p)	23.87	146.0	134437M	22.58	UG/L	100
49)	C350 Dichlorobenzene (o)	25.09	146.0	125774	20.15	UG/L	100
50)	C250 Xylenes (total)	18.35	106.0	88864	21.09	UG/L	91

* Compound is ISTD

FILE F2790

35.0-200.0 amu. 5000. 5ML. HTD. 9. 10-21. 1988

400 600 800 1000 1200



Data File: >F2790::D6 Quant Output File: ^F2790::D7
Name: USTD 50NG. 5ML. HTD. Instrument ID: U6
Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HSL,A,B,FREONS, 50

Id File: HAMID6::MT
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
Last Calibration: 910408 11:20 Last Qcal Time: 911004 12:08

Operator ID: KERYLYNN
Quant Time : 911008 08:36
Injected at: 911008 08:09

QUANT REPORT

Page 1

Operator ID: KERP/AMN Plant Ref: 7 Plant Time: 11:03 8/78
 Output File: 182790:07 Injected amt: 11070 18/78
 Data File: 182790:0a Dilution Factor: 1.0000
 Name: VSTD 50NG. 5ML. HTD. Instrument ID: 16
 Misc: 16, CH#01, 5UL IS/S, STD=25UL*100ML HSL,A,B,FPECKS, 50

ID File: HAMID6:MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, 06 HTD ERCCENSECO
 Last Calibration: 910488 11:20 Last Qual Time: 911004 12:08

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.23	128.0		91542	50.00	UG/L	86
2)	C012 Dichlorodifluoromethane	2.44	85.0		98474	29.15	UG/L	84
3)	C010 Chloromethane	2.67	50.0		101050	50.38	UG/L	93
4)	C020 Vinyl Chloride	2.81	62.0		99740	47.40	UG/L	86
5)	C015 Bromomethane	3.22	94.0		100961	59.60	UG/L	95
6)	C025 Chloroethane	3.34	64.0		55083M	50.90	UG/L	99
7)	C028 Trichlorofluoromethane	3.65	101.0		177069	37.81	UG/L	88
8)	C045 1,1-Dichloroethene	4.29	96.0		92671	36.92	UG/L	89
9)	C038 1,1,2-Trichloro-1,2,2-tri	4.29	101.0		211081	79.85	UG/L	89
10)	C035 Acetone	4.40	43.0		39722M	32.08	UG/L	11
11)	C040 Carbon Disulfide	4.60	76.0		273920	37.58	UG/L	100
12)	C030 Methylene Chloride	4.95	84.0		133387	44.05	UG/L	86
13)	C053 Trans-1,2-dichloroethene	5.31	96.0		136119	42.50	UG/L	96
14)	C055 Cis-1,2-dichloroethene	6.82	96.0		155755	43.97	UG/L	83
15)	C050 1,1-Dichloroethane	5.92	63.0		261647	42.53	UG/L	100
16)	C060 Chloroform	7.37	83.0		291562	42.08	UG/L	99
17)	C065 1,2-Dichloroethane	8.40	62.0		196420	44.04	UG/L	100
18)	C110 2-Butanone	6.88	72.0		28847	54.81	UG/L	99
19)	CS15 D4-1,2-dichloroethane	8.26	65.0		157053	46.56	UG/L	88
20)	*C110 1,4-Difluorobenzene	9.12	114.0		441917	50.00	UG/L	100
21)	C125 Vinyl Acetate	5.99	43.0		411297	58.38	UG/L	99
22)	C115 1,1,1-Trichloroethane	7.70	97.0		235534	42.49	UG/L	87
23)	C120 Carbon Tetrachloride	7.98	117.0		193666	41.94	UG/L	92
24)	C165 Benzene	8.36	78.0		421065	41.73	UG/L	100
25)	C150 Trichloroethene	9.64	130.0		170815	39.85	UG/L	98
26)	C140 1,2-Dichloropropane	10.11	63.0		177881	42.79	UG/L	100
27)	C130 Bromodichloromethane	10.73	83.0		284395	44.45	UG/L	79
28)	C175 2-Chloroethylvinylether	11.46	63.0		118827	43.34	UG/L	99
29)	C143 Cis-1,3-Dichloropropene	11.78	75.0		277685	45.31	UG/L	96
30)	C172 Trans-1,3-dichloropropene	13.19	75.0		209583	40.00	UG/L	100
31)	C160 1,1,2-Trichloroethane	13.64	97.0		168612	45.45	UG/L	72
32)	C155 Dibromochloromethane	14.68	129.0		248306	44.82	UG/L	91
33)	C180 Bromoform	18.87	173.0		186111	49.43	UG/L	99
34)	*C120 D5-Chlorobenzene	16.30	117.0		336266	50.00	UG/L	100
35)	CS05 D8-Toluene	12.42	98.0		421899	49.67	UG/L	95
36)	C205 4-Methyl-2-pentanone	12.20	43.0		308065	56.46	UG/L	87
37)	C230 Toluene	12.59	92.0		277600	43.18	UG/L	90
38)	C210 2-Hexanone	14.41	43.0		234827	52.88	UG/L	99
39)	C220 Tetrachloroethene	13.99	164.0		143392	42.16	UG/L	88
40)	C235 Chlorobenzene	16.38	112.0		351030	43.90	UG/L	74
41)	C240 Ethylbenzene	16.76	106.0		166957	42.59	UG/L	97
42)	CXXX Xylenes (p)	17.14	106.0		221199	44.88	UG/L	94

000187

QUANT REPORT

Page 1

Method ID: 40240001 Quant Ref: 7 Quant Time: 911009 08:36
 Output File: F17901107 Injected at: 911008 18:39
 Data File: F17901106 Dilution Factor: 1.00000
 Name: HSTD 50UG, 2ML, HTO. Instrument ID: 06
 Misc: 06, CH01, FOL 1945, STD=25UL/100ML HSL,A,B,FREONS, 50

ID File: HAMID6:MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, 06 HTO ERCC/ENSECO
 Last Calibration: 910408 11:20 Last Cal Time: 911004 12:09

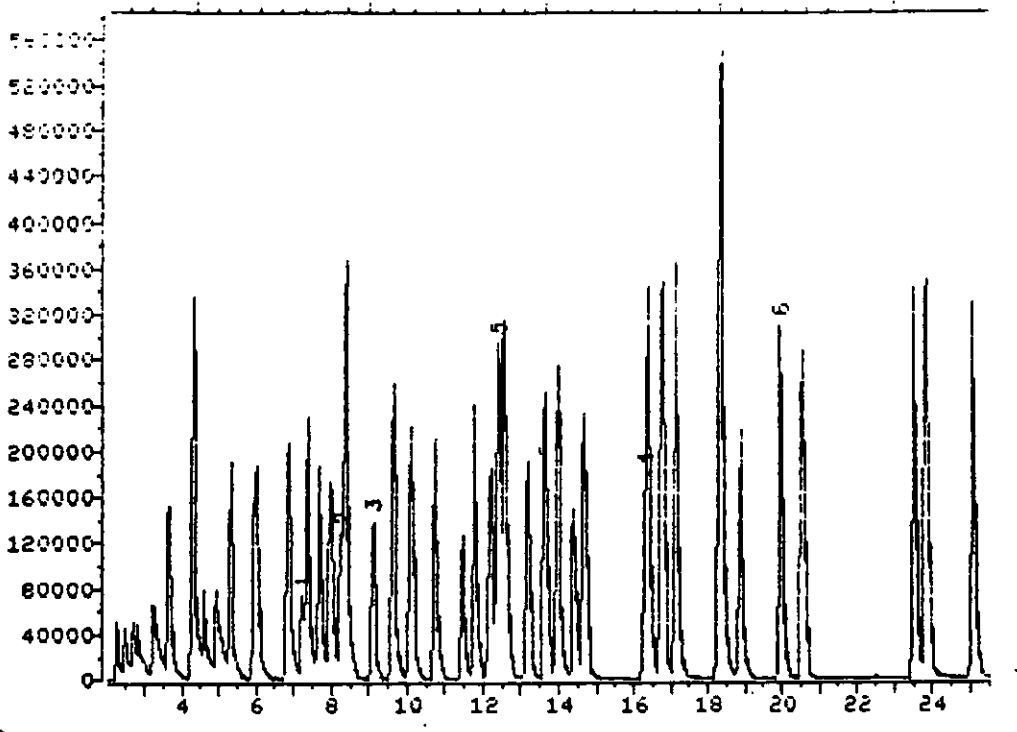
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C245 Styrene	18.37	104.0	365473	42.62	UG/L	100
45)	C225 1,1,2,2-Tetrachloroethane	20.55	83.0	338248	49.00	UG/L	93
46)	CS10 Bromofluorobenzene	19.95	95.0	253995	50.47	UG/L	72
47)	C335 Dichlorobenzene (m)	23.52	146.0	308235	43.36	UG/L	100
48)	C340 Dichlorobenzene (p)	23.85	146.0	323136M	49.16	UG/L	100
49)	C350 Dichlorobenzene (o)	25.07	146.0	298021M	43.26	UG/L	100
50)	C250 Xylenes (total)	18.31	106.0	208945M	44.93	UG/L	96

* Compound is ISTD

000188

TOTAL ION CHROMATOGRAM

11a F2793 25.0-200.0 amu. WSTD 100NG. 5ML. HTD 4.0CH#01. 5UL IS S.
TIC



Data File: >F2793::D6

Quant Output File: ^F2793::D7

Name: USTD 100NG. 5ML. HTD

Instrument ID: U6

Misc: U6,CH#01, 5UL IS/S, STD=25UL/50ML HSL,A,B,CL3F,CL2F,50

Id File: HAMID6::MT

Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO

Last Calibration: 910408 11:20

Last Qcal Time: 911004 12:08

Operator ID: KERYLYNN

Quant Time : 911008 10:39

Injected at: 911008 10:12

000189

Operator ID: VERLANN
 Report File: R1093107
 Data File: R2793106
 Name: METO 100MG. 5ML. HTD
 Misc: V6,CH#01, 5UL 15%5, STD=25UL/50ML HSL,A,B,CL3F,CL2F,50
 Quant Per: 7
 Quant Time: 911004 12:39
 Injected Vol: 511004 12:39
 Dilution Factor: 1.00000
 Instrument ID: V6

ID File: HAM106:MT
 Title: HSL VOLATILES: 75m . 53mm: 502.2, V6 HTD ERCD-INSECO
 Last Calibration: 910408 11:20
 Last Qual Time: 911004 12:38

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.20	128.0		79858	50.00	UG/L	89
2)	C012 Dichlorodifluoromethane	2.45	85.0		181340M	61.54	UG/L	83
3)	C010 Chloromethane	2.67	50.0		175957	100.56	UG/L	99
4)	C020 Vinyl Chloride	2.81	62.0		188558	102.72	UG/L	86
5)	C015 Bromomethane	3.22	94.0		205152	138.83	UG/L	98
6)	C025 Chloroethane	3.33	64.0		114816M	121.62	UG/L	98
7)	C028 Trichlorofluoromethane	3.65	101.0		388286	95.03	UG/L	93
8)	C045 1,1-Dichloroethene	4.28	96.0		149758	68.40	UG/L	89
9)	C038 1,1,2-Trichloro-1,2,2-tri	4.28	101.0		350897M	152.16	UG/L	81
10)	C035 Acetone	4.42	43.0		58817M	54.45	UG/L	76
11)	C040 Carbon Disulfide	4.58	76.0		424771	66.81	UG/L	100
12)	C030 Methylene Chloride	4.92	84.0		224803M	85.10	UG/L	76
13)	C053 Trans-1,2-dichloroethene	5.29	96.0		235168	84.16	UG/L	96
14)	C055 Cis-1,2-dichloroethene	6.82	96.0		290493	94.02	UG/L	89
15)	C050 1,1-Dichloroethane	5.91	63.0		471927	87.92	UG/L	100
16)	C060 Chloroform	7.34	83.0		575916	95.28	UG/L	98
17)	C065 1,2-Dichloroethane	8.38	62.0		365922	94.04	UG/L	100
18)	C110 2-Butanone	6.89	72.0		58996	128.49	UG/L	93
19)	CS15 D4-1,2-dichloroethane	8.25	65.0		293909	99.87	UG/L	90
20)	*C110 1,4-Difluorobenzene	9.10	114.0		405833	50.00	UG/L	100
21)	C125 Vinyl Acetate	5.98	43.0		773943	119.63	UG/L	97
22)	C115 1,1,1-Trichloroethane	7.67	97.0		451926	88.78	UG/L	87
23)	C120 Carbon Tetrachloride	7.96	117.0		379093	89.39	UG/L	97
24)	C165 Benzene	8.35	78.0		797747	86.10	UG/L	100
25)	C150 Trichloroethene	9.63	130.0		337724	85.79	UG/L	95
26)	C140 1,2-Dichloropropane	10.09	63.0		335941	88.00	UG/L	100
27)	C130 Bromodichloromethane	10.71	83.0		549525	93.54	UG/L	89
28)	C175 2-Chloroethylvinylether	11.45	63.0		231209	91.82	UG/L	93
29)	C143 Cis-1,3-Dichloropropene	11.75	75.0		553144	98.29	UG/L	98
30)	C172 Trans-1,3-dichloropropene	13.16	75.0		411749	85.56	UG/L	100
31)	C160 1,1,2-Trichloroethane	13.63	97.0		324975	95.39	UG/L	69
32)	C155 Dibromochloromethane	14.68	129.0		501210	98.52	UG/L	97
33)	C180 Bromoform	18.86	173.0		389321	112.60	UG/L	96
34)	*C120 D5-Chlorobenzene	16.29	117.0		324057	50.00	UG/L	100
35)	CS05 D8-Toluene	12.40	98.0		771866	94.30	UG/L	93
36)	C205 4-Methyl-2-pentanone	12.18	43.0		631008	120.00	UG/L	90
37)	C230 Toluene	12.56	92.0		533492	86.11	UG/L	89
38)	C210 2-Hexanone	14.39	43.0		510464	119.28	UG/L	99
39)	C220 Tetrachloroethene	13.97	164.0		277511	84.67	UG/L	81
40)	C235 Chlorobenzene	16.37	112.0		689817	89.52	UG/L	72
41)	C240 Ethylbenzene	16.75	106.0		332203	87.93	UG/L	99
42)	CXXX Xylenes (p)	17.13	106.0		424778M	89.42	UG/L	96

000190

QUANT REPORT

Page 1

Operator ID: KEELENN
 Input File: F0793::07
 Data File: F0793::06
 Name: NSTD 100NG, 5ML, HTD
 Method: %CH#01, FUL IS S, STD=25UL*50ML HSL,A,B,CL3F,CL2F,50

Quant Path: 7
 Quant Time: 911008 10:19
 Injected at: 911008 10:12
 Dilution Factor: 1.00000
 Instrument ID: 06

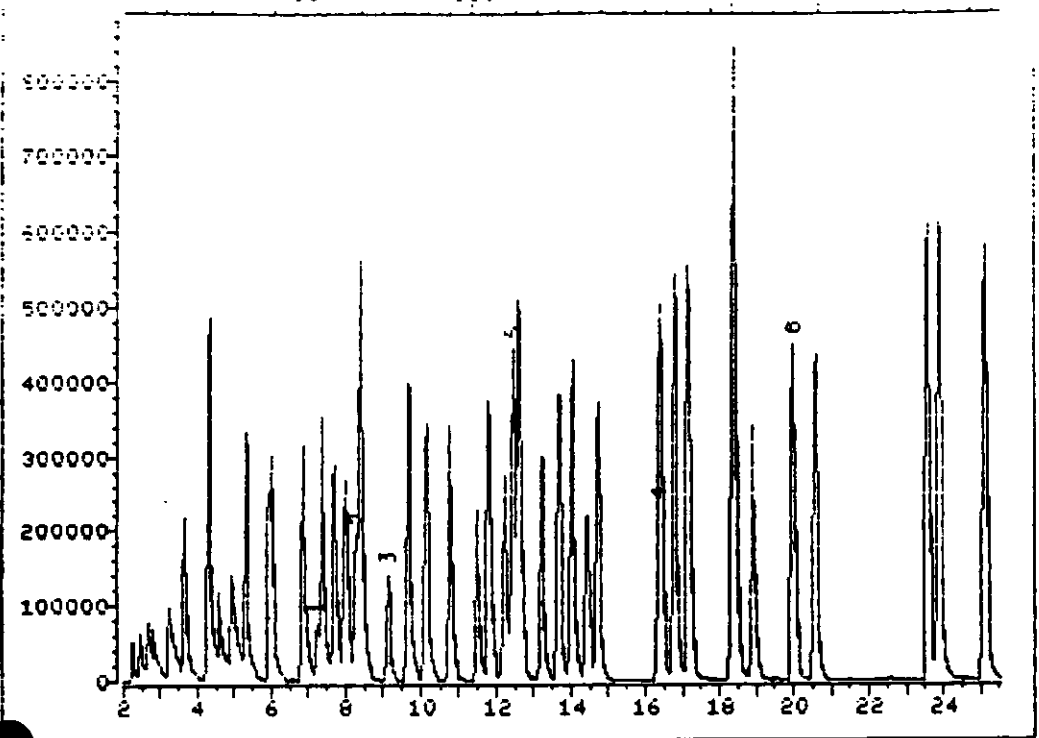
ID File: HAMID6::MT
 Title: HSL VOLATILES: 25m x .53mm: 502.2, U6 HTC ERCONENSECO
 Last Calibration: 910408 11:20
 Last Cal Time: 911004 12:08

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C245 Styrene	18.36	104.0	717603	86.83	UG/L	100
45)	C225 1,1,2,2-Tetrachloroethane	20.54	83.0	717391	107.83	UG/L	90
46)	CS10 Bromofluorobenzene	19.95	95.0	489943	101.02	UG/L	73
47)	C335 Dichlorobenzene (m)	23.51	146.0	609123	88.91	UG/L	100
48)	C340 Dichlorobenzene (p)	23.84	146.0	622509M	98.27	UG/L	100
49)	C350 Dichlorobenzene (o)	25.05	146.0	593203	89.35	UG/L	100
50)	C250 Xylenes (total)	18.32	106.0	397501M	88.70	UG/L	97

* Compound is ISTD

000191

TAL TOC CHROMATOGRAM
File F2794 15.0-100.0 min. 150NG. 5ML. HTD -70V. 1-411 9 11 1 18
TIC
400 800 1200 1600 2000



Data File: >F2794::D6 Quant Output File: ^F2794::D7
Name: USTD 150NG. 5ML. HTD Instrument ID: U6
Misc: U6,CH#01 5UL IS/S STD=37.5UL/50ML HSL,A,B,CL3F,CL2F,50

Id File: HAMID6::MT
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
Last Calibration: 910408 11:20 Last Qcal Time: 911004 12:08

Operator ID: LIZ
Quant Time : 911008 11:24
Injected at: 911008 10:57

Operator ID: LIC
 Quant File: F0294:07
 Data File: F0294:06
 Name: MST0 150MS. 5ML. HTD
 Misc: 06,CH#01 5UL IS-6 STD=37.5UL/50ML HSL,A,B,CL3F,CL2F,50
 Quant Re: 7
 Quant Time: 911009 11:14
 Injected at: 911009 11:57
 Dilution Factor: 1.00000
 Instrument ID: 06

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, 06 HTD ERDD/ENSECO
 Last Calibration: 910409 11:20
 Last Qcal Time: 911004 12:09

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.23	128.0		82954	50.00	UG/L	88
2)	C012 Dichlorodifluoromethane	2.45	85.0		268633	87.76	UG/L	83
3)	C010 Chloromethane	2.67	50.0		272402	149.86	UG/L	96
4)	C020 Vinyl Chloride	2.82	62.0		286918	150.47	UG/L	84
5)	C015 Bromomethane	3.23	94.0		313079	203.95	UG/L	89
6)	C025 Chloroethane	3.36	64.0		176341M	179.82	UG/L	86
7)	C028 Trichlorofluoromethane	3.66	101.0		540171	127.28	UG/L	99
8)	C045 1,1-Dichloroethene	4.29	96.0		217625	95.69	UG/L	82
9)	C038 1,1,2-Trichloro-1,2,2-tri	4.30	101.0		522714M	218.20	UG/L	90
10)	C035 Acetone	4.43	43.0		84002	74.86	UG/L	22
11)	C040 Carbon Disulfide	4.58	76.0		688446	104.24	UG/L	100
12)	C030 Methylene Chloride	4.93	84.0		379746	138.38	UG/L	86
13)	C053 Trans-1,2-dichloroethene	5.31	96.0		396362	136.56	UG/L	98
14)	C055 Cis-1,2-dichloroethene	6.83	96.0		451993	140.82	UG/L	84
15)	C050 1,1-Dichloroethane	5.92	63.0		763987	137.03	UG/L	100
16)	C060 Chloroform	7.37	83.0		894116	142.41	UG/L	97
17)	C065 1,2-Dichloroethane	8.41	62.0		555755	137.50	UG/L	100
18)	C110 2-Butanone	6.89	72.0		83423	174.92	UG/L	93
19)	CS15 D4-1,2-dichloroethane	8.27	65.0		435952	142.61	UG/L	91
20)	*C110 1,4-Difluorobenzene	9.12	114.0		403490	50.00	UG/L	100
21)	C125 Vinyl Acetate	6.01	43.0		1226982	190.75	UG/L	99
22)	C115 1,1,1-Trichloroethane	7.70	97.0		693910	137.10	UG/L	97
23)	C120 Carbon Tetrachloride	7.99	117.0		580382	137.64	UG/L	94
24)	C165 Benzene	8.36	78.0		1238067	134.40	UG/L	100
25)	C150 Trichloroethene	9.65	130.0		520168	132.90	UG/L	92
26)	C140 1,2-Dichloropropane	10.13	63.0		517172	136.26	UG/L	100
27)	C130 Bromodichloromethane	10.76	83.0		844399	144.56	UG/L	72
28)	C175 2-Chloroethylvinylether	11.47	63.0		404024	161.39	UG/L	98
29)	C143 Cis-1,3-Dichloropropene	11.79	75.0		847942	151.54	UG/L	98
30)	C172 Trans-1,3-dichloropropene	13.21	75.0		633150	132.33	UG/L	100
31)	C160 1,1,2-Trichloroethane	13.66	97.0		493343	145.65	UG/L	71
32)	C155 Dibromochloromethane	14.70	129.0		796760	157.52	UG/L	96
33)	C180 Bromoform	18.90	173.0		626975	182.39	UG/L	96
34)	*C120 D5-Chlorobenzene	16.33	117.0		319865	50.00	UG/L	100
35)	CS05 D8-Toluene	12.43	98.0		1166598	144.39	UG/L	92
36)	C205 4-Methyl-2-pentanone	12.21	43.0		897582	172.93	UG/L	85
37)	C230 Toluene	12.59	92.0		822420	134.48	UG/L	97
38)	C210 2-Hexanone	14.42	43.0		725053	171.64	UG/L	97
39)	C220 Tetrachloroethene	14.01	164.0		418686	129.42	UG/L	96
40)	C235 Chlorobenzene	16.40	112.0		1061419	139.56	UG/L	75
41)	C240 Ethylbenzene	16.77	106.0		503394	134.99	UG/L	8
42)	CXXX Xuloses (a)	17.16	106.0		636078M	135.66	UG/L	93

000193

QUANT REPORT

Page 1

Operator ID: LIE Quant Ref: 7 Quant Time: 911008 11:24
 Output File: HF2794::07 Injected at: 911008 10:57
 Data File: HF2794::06 Dilution Factor: 1.00000
 Name: USTD 150NG. 5ML. HTD Instrument ID: 06
 Misc: U6,CH#01 5UL IS/S STD=37.5UL/50ML HSL,A,B,CL3F,CL2F,50

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
 Last Calibration: 910408 11:20 Last Qual Time: 911004 12:08

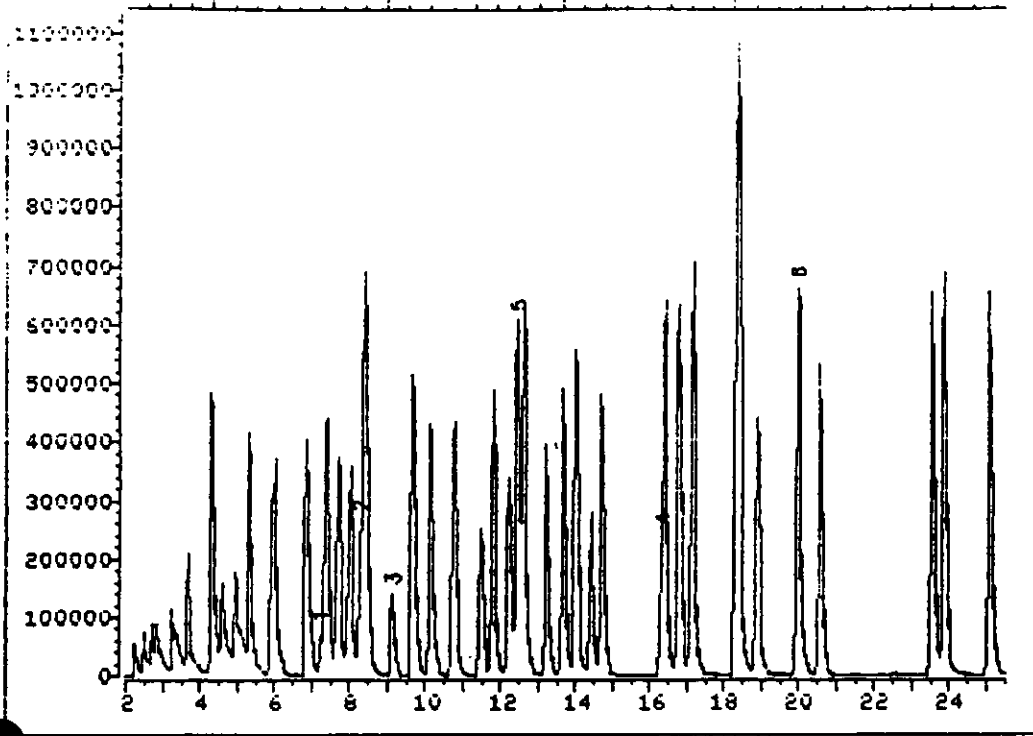
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C245 Styrene	18.41	104.0	1130574	138.60	UG/L	100
45)	C225 1,1,2,2-Tetrachloroethane	20.56	83.0	1077249	164.04	UG/L	91
46)	CS10 Bromofluorobenzene	19.98	95.0	711489	148.62	UG/L	69
47)	C335 Dichlorobenzene (m)	23.56	146.0	1086310	160.65	UG/L	100
48)	C340 Dichlorobenzene (p)	23.87	146.0	1120197M	179.15	UG/L	100
49)	C350 Dichlorobenzene (o)	25.10	146.0	1050752	160.35	UG/L	100
50)	C250 Xylenes (total)	18.35	106.0	610490M	138.01	UG/L	98

* Compound is ISTD

000194

TOTAL ION CHROMATOGRAM

File F2795 35.0-300.0 amu. USTD 200NG. 5ML. HTD. CH#01 5UL IS S
TIC
400 800 1200 1600 2000



Data File: >F2795::D6 Quant Output File: ^F2795::D7
Name: USTD 200NG. 5ML. HTD Instrument ID: U6
Misc: U6, CH#01 5UL IS/S STD=50UL/50ML HSL,A,B,CL3F,CL2F,100

Id File: HAMID6::MT
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
Last Calibration: 910408 11:20 Last Qcal Time: 911004 12:08

Operator ID: KERYLYNN
Quant Time : 911008 11:59
Injected at: 911008 11:32

QUANT REPORT

Page 1

Operator ID: KER/LYNN Quant Peak: 7 Quant Time: 911008 11:29
 Output File: F2795:07 Injected at: 911008 11:30
 Data File: F2795:06 Dilution Factor: 1.00000
 Name: USTD 200NG. PNL. HTD Instrument ID: U6
 Misc: U6, CH#01 5UL IS-5 STD=50UL/50ML HSL,A,B,CL3F,CL3F,100

ID File: HAMID6:MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCDENSECO
 Last Calibration: 910408 11:20 Last Qual Time: 911004 12:08

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.23	128.0		83588	50.00	UG/L	87
2) C012 Dichlorodifluoromethane	2.45	85.0		334776	108.54	UG/L	84
3) C010 Chloromethane	2.68	50.0		332629	181.61	UG/L	99
4) C020 Vinyl Chloride	2.81	62.0		370753	192.97	UG/L	89
5) C015 Bromomethane	3.23	94.0		371286	240.04	UG/L	91
6) C025 Chloroethane	3.35	64.0		186048M	188.28	UG/L	93
7) C028 Trichlorofluoromethane	3.65	101.0		586346	137.11	UG/L	93
8) C045 1,1-Dichloroethene	4.29	96.0		277331	121.02	UG/L	81
9) C038 1,1,2-Trichloro-1,2,2-tri	4.28	101.0		504977M	209.20	UG/L	87
10) C035 Acetone	4.40	43.0		103359M	91.41	UG/L	18
11) C040 Carbon Disulfide	4.58	76.0		965656	145.10	UG/L	100
12) C030 Methylene Chloride	4.92	84.0		480826	173.89	UG/L	81
13) C053 Trans-1,2-dichloroethene	5.30	95.0		504018	172.33	UG/L	98
14) C055 Cis-1,2-dichloroethene	6.82	96.0		578756	178.95	UG/L	85
15) C050 1,1-Dichloroethane	5.91	63.0		986212	175.54	UG/L	100
16) C060 Chloroform	7.37	83.0		1156092	182.74	UG/L	97
17) C065 1,2-Dichloroethane	8.41	62.0		685805	168.39	UG/L	100
18) C110 2-Butanone	6.88	72.0		97995	203.91	UG/L	92
19) CS15 D4-1,2-dichloroethane	8.26	65.0		599075	194.48	UG/L	90
20) *C110 1,4-Difluorobenzene	9.12	114.0		411133	50.00	UG/L	100
21) C125 Vinyl Acetate	6.01	43.0		1511390	230.60	UG/L	97
22) C115 1,1,1-Trichloroethane	7.69	97.0		902935	175.09	UG/L	88
23) C120 Carbon Tetrachloride	7.99	117.0		795997	185.27	UG/L	96
24) C165 Benzene	8.36	78.0		1545062	164.61	UG/L	100
25) C150 Trichloroethene	9.65	130.0		678289	170.08	UG/L	92
26) C140 1,2-Dichloropropane	10.13	63.0		653483	168.97	UG/L	100
27) C130 Bromodichloromethane	10.73	83.0		1091898	183.46	UG/L	75
28) C175 2-Chloroethylvinylether	11.46	63.0		436418	171.09	UG/L	95
29) C143 Cis-1,3-Dichloropropene	11.77	75.0		1108220	194.38	UG/L	99
30) C172 Trans-1,3-dichloropropene	13.18	75.0		837597	171.81	UG/L	100
31) C160 1,1,2-Trichloroethane	13.65	97.0		644039	186.60	UG/L	75
32) C155 Dibromochloromethane	14.69	129.0		1036765	201.16	UG/L	94
33) C180 Bromoform	18.89	173.0		809934	231.23	UG/L	99
34) *C120 D5-Chlorobenzene	16.31	117.0		334300	50.00	UG/L	100
35) CS05 D8-Toluene	12.42	98.0		1633769	193.48	UG/L	92
36) C205 4-Methyl-2-pentanone	12.20	43.0		1084015	199.83	UG/L	85
37) C230 Toluene	12.58	92.0		1052882	164.73	UG/L	92
38) C210 2-Hexanone	14.40	43.0		875629	198.34	UG/L	99
39) C220 Tetrachloroethene	13.99	164.0		554589	164.03	UG/L	90
40) C235 Chlorobenzene	16.39	112.0		1368352	172.14	UG/L	75
41) C240 Ethylbenzene	16.75	106.0		652235	167.35	UG/L	91
42) CXXX Xylenes (p)	17.14	106.0		826336M	168.63	UG/L	94

000196

QUANT REPORT

Page 2

Operator ID: KERRYLYNN Quant File: 7 Quant Time: 911008 11:32
 Output File: F2795::07 Injected at: 911008 11:32
 Data File: F2795::06 Dilution Factor: 1.00000
 Name: USTD 200NG, 5ML, HTD Instrument ID: U6
 Misc: U6, CH#01 5UL IS/5 STD=50UL/50ML HSL,A,B,CL3F,CL2F,100

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCD/ENSECO
 Last Calibration: 910408 11:20 Last Qual Time: 911004 12:08

Compound	R.T.	Q ion	Area	Conc	Units	q
44) C245 Styrene	18.39	104.0	1427223	167.41	UG/L	100
45) C225 1,1,2,2-Tetrachloroethane	20.55	83.0	1359653	198.11	UG/L	86
46) CS10 Bromofluorobenzene	19.96	95.0	1023256	204.52	UG/L	72
47) C335 Dichlorobenzene (m)	23.53	146.0	1213628	171.73	UG/L	100
48) C340 Dichlorobenzene (p)	23.85	146.0	1237767M	189.41	UG/L	100
49) C350 Dichlorobenzene (o)	25.08	146.0	1161517	169.60	UG/L	100
50) C250 Xylenes (total)	18.33	106.0	777990M	168.28	UG/L	92

Compound is ISTD

000197

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V1 Calibration date: 10/19/91 Time: 1128

Lab File ID: A3626 Init. Calib. Date(s): 08/29/91 08/29/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.948	0.900	5.1
Bromomethane	0.850	0.726	14.6
Vinyl Chloride	1.185	1.128	4.8
Chloroethane	0.734	0.666	9.3
Methylene Chloride	1.632	1.182	27.6
Acetone	0.394	0.263	33.2
Carbon Disulfide	4.412	2.909	34.1
1,1-Dichloroethene	1.212	0.922	23.9
1,1-Dichloroethane	3.039	2.592	14.7
1,2-Dichloroethene (total)	1.548	1.422	8.1
Chloroform	3.639	3.154	13.3
1,2-Dichloroethane	2.533	2.128	16.0
2-Butanone	0.182	0.153	15.9
1,1,1-Trichloroethane	0.593	0.481	18.9
Carbon Tetrachloride	0.552	0.466	15.6
Vinyl Acetate	0.556	0.350	37.0
Bromodichloromethane	0.608	0.506	16.8
1,2-Dichloropropane	0.417	0.340	18.5
cis-1,3-Dichloropropene	0.644	0.530	17.7
Trichloroethene	0.459	0.405	11.8
Dibromochloromethane	0.593	0.496	16.4
1,1,2-Trichloroethane	0.365	0.294	19.4
Benzene	1.104	0.942	14.7
trans-1,3-Dichloropropene	0.583	0.453	22.3
2-Chloroethylvinylether	0.251	0.181	27.9
Bromoform	0.502	0.415	17.3
4-Methyl-2-Pentanone	0.475	0.334	29.7
2-Hexanone	0.336	0.232	31.0
Tetrachloroethene	0.508	0.502	1.2
1,1,2,2-Tetrachloroethane	0.688	0.581	15.6
Toluene	0.870	0.778	10.6
Chlorobenzene	1.154	1.019	11.7
Ethylbenzene	0.560	0.523	6.6
Styrene	1.118	0.996	10.9
Xylene (total)	0.632	0.571	9.7
Toluene-d8	1.290	1.322	-2.5
Bromofluorobenzene	0.596	0.595	0.2
1,2-Dichloroethane-d4	1.845	1.864	-1.0

VOLATILE CONTINUING CALIBRATION CHECK

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V2 Calibration date: 10/14/91 Time: 1334

Lab File ID: B2979 Init. Calib. Date(s): 10/11/91 10/12/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.455	0.340	25.3
Bromomethane	0.692	1.017	-47.0
Vinyl Chloride	0.847	0.753	11.1
Chloroethane	0.531	0.727	-36.9
Methylene Chloride	1.715	2.637	-53.8
Acetone	0.404	0.423	-4.7
Carbon Disulfide	4.332	4.840	-11.7
1,1-Dichloroethene	0.935	1.142	-22.1
1,1-Dichloroethane	3.314	3.693	-11.4
1,2-Dichloroethene (total)	1.770	1.967	-11.1
Chloroform	3.260	3.539	-8.6
1,2-Dichloroethane	2.168	2.305	-6.3
2-Butanone	1.016	1.081	-6.4
1,1,1-Trichloroethane	0.453	0.479	-5.7
Carbon Tetrachloride	0.426	0.456	-7.0
Vinyl Acetate	0.872	0.927	-6.3
Bromodichloromethane	0.586	0.569	2.9
1,2-Dichloropropane	0.441	0.418	5.2
cis-1,3-Dichloropropene	0.613	0.578	5.7
Trichloroethene	0.424	0.411	3.1
Dibromochloromethane	0.446	0.422	5.4
1,1,2-Trichloroethane	0.326	0.296	9.2
Benzene	1.169	1.248	-6.8
trans-1,3-Dichloropropene	0.472	0.433	8.3
2-Chloroethylvinylether	0.232	0.201	13.4
Bromoform	0.315	0.302	4.1
4-Methyl-2-Pentanone	0.591	0.570	3.6
2-Hexanone	0.322	0.312	3.1
Tetrachloroethene	0.422	0.410	2.8
1,1,2,2-Tetrachloroethane	0.841	0.804	4.4
Toluene	0.919	0.867	5.7
Chlorobenzene	1.058	1.020	3.6
Ethylbenzene	0.495	0.475	4.0
Styrene	0.989	0.986	0.3
Xylene (total)	0.609	0.620	-1.8
Toluene-d8	1.286	1.332	-3.6
Bromofluorobenzene	0.597	0.610	-2.2
1,2-Dichloroethane-d4	1.513	1.646	-8.8

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration date: 10/08/91 Time: 0809

Lab File ID: F2790 Init. Calib. Date(s): 10/08/91 10/08/91

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	1.096	1.104	-0.7
Bromomethane	1.225	1.103	10.0
Vinyl Chloride	1.139	1.090	4.3
Chloroethane	0.664	0.602	9.3
Methylene Chloride	1.528	1.458	4.6
Acetone	0.375	0.434	-15.7
Carbon Disulfide	3.021	2.994	0.9
1,1-Dichloroethene	0.989	1.013	-2.4
1,1-Dichloroethane	3.078	2.860	7.1
1,2-Dichloroethene (total)	1.581	1.488	5.9
Chloroform	3.569	3.186	10.7
1,2-Dichloroethane	2.266	2.147	5.3
2-Butanone	0.338	0.315	6.8
1,1,1-Trichloroethane	0.575	0.533	7.3
Carbon Tetrachloride	0.483	0.438	9.3
Vinyl Acetate	0.976	0.931	4.6
Bromodichloromethane	0.681	0.643	5.6
1,2-Dichloropropane	0.425	0.402	5.4
cis-1,3-Dichloropropene	0.646	0.593	8.2
Trichloroethene	0.423	0.386	8.7
Dibromochloromethane	0.621	0.562	9.5
1,1,2-Trichloroethane	0.407	0.381	6.4
Benzene	1.011	0.953	5.7
trans-1,3-Dichloropropene	0.554	0.515	7.0
2-Chloroethylvinylether	0.285	0.269	5.6
Bromoform	0.474	0.421	11.2
4-Methyl-2-Pentanone	0.921	0.917	0.4
2-Hexanone	0.724	0.699	3.5
Tetrachloroethene	0.440	0.427	3.0
1,1,2,2-Tetrachloroethane	1.079	1.007	6.7
Toluene	0.853	0.826	3.2
Chlorobenzene	1.092	1.045	4.3
Ethylbenzene	0.530	0.497	6.2
Styrene	1.150	1.088	5.4
Xylene (total)	0.636	0.622	2.2
Toluene-d8	1.240	1.256	-1.3
Bromofluorobenzene	0.759	0.756	0.4
1,2-Dichloroethane-d4	1.813	1.716	5.4

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration date: 10/09/91 Time: 1028

Lab File ID: F2827 Init. Calib. Date(s): 09/22/91 09/22/91

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	1.246	1.324	-6.3
Bromomethane	1.055	1.216	-15.3
Vinyl Chloride	1.258	1.350	-7.3
Chloroethane	0.651	0.502	22.9
Methylene Chloride	1.704	1.800	-5.6
Acetone	0.211	0.184	12.8
Carbon Disulfide	4.156	4.435	-6.7
1,1-Dichloroethene	1.387	1.507	-8.7
1,1-Dichloroethane	3.250	3.533	-8.7
1,2-Dichloroethene (total)	1.727	1.844	-6.8
Chloroform	3.857	3.791	1.7
1,2-Dichloroethane	2.171	2.174	-0.1
2-Butanone	0.111	0.109	1.8
1,1,1-Trichloroethane	0.560	0.598	-6.8
Carbon Tetrachloride	0.479	0.490	-2.3
Vinyl Acetate	0.538	0.605	-12.4
Bromodichloromethane	0.622	0.601	3.4
1,2-Dichloropropane	0.407	0.406	0.2
cis-1,3-Dichloropropene	0.603	0.583	3.3
Trichloroethene	0.415	0.426	-2.7
Dibromochloromethane	0.501	0.468	6.6
1,1,2-Trichloroethane	0.316	0.295	6.6
Benzene	1.001	0.991	1.0
trans-1,3-Dichloropropene	0.470	0.448	4.7
2-Chloroethylvinylether	0.190	0.178	6.3
Bromoform	0.302	0.263	12.9
4-Methyl-2-Pentanone	0.332	0.324	2.4
2-Hexanone	0.236	0.213	9.7
Tetrachloroethene	0.430	0.468	-8.8
1,1,2,2-Tetrachloroethane	0.596	0.574	3.7
Toluene	0.839	0.906	-8.0
Chlorobenzene	1.057	1.088	-2.9
Ethylbenzene	0.509	0.547	-7.5
Styrene	1.098	1.116	-1.6
Xylene (total)	0.601	0.637	-6.0
Toluene-d8	1.246	1.300	-4.3
Bromofluorobenzene	0.742	0.715	3.6
1,2-Dichloroethane-d4	1.759	1.571	10.7

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration date: 10/10/91 Time: 1103

Lab File ID: F2866 Init. Calib. Date(s): 09/22/91 09/22/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	1.246	1.174	5.8
Bromomethane	1.055	0.807	23.5
Vinyl Chloride	1.258	1.025	18.5
Chloroethane	0.651	0.483	25.8
Methylene Chloride	1.704	1.741	-2.2
Acetone	0.211	0.208	1.4
Carbon Disulfide	4.156	3.695	11.1
1,1-Dichloroethene	1.387	1.236	10.9
1,1-Dichloroethane	3.250	3.244	0.2
1,2-Dichloroethene (total)	1.727	1.659	3.9
Chloroform	3.857	3.608	6.5
1,2-Dichloroethane	2.171	2.167	0.2
2-Butanone	0.111	0.115	-3.6
1,1,1-Trichloroethane	0.560	0.548	2.1
Carbon Tetrachloride	0.479	0.449	6.3
Vinyl Acetate	0.538	0.610	-13.4
Bromodichloromethane	0.622	0.593	4.7
1,2-Dichloropropane	0.407	0.395	2.9
cis-1,3-Dichloropropene	0.603	0.582	3.5
Trichloroethene	0.415	0.393	5.3
Dibromochloromethane	0.501	0.474	5.4
1,1,2-Trichloroethane	0.316	0.311	1.6
Benzene	1.001	0.969	3.2
trans-1,3-Dichloropropene	0.470	0.456	3.0
2-Chloroethylvinylether	0.190	0.177	6.8
Bromoform	0.302	0.275	8.9
4-Methyl-2-Pentanone	0.332	0.354	-6.6
2-Hexanone	0.236	0.231	2.1
Tetrachloroethene	0.430	0.440	-2.3
1,1,2,2-Tetrachloroethane	0.596	0.616	-3.4
Toluene	0.839	0.852	-1.5
Chlorobenzene	1.057	1.021	3.4
Ethylbenzene	0.509	0.514	-1.0
Styrene	1.098	1.102	-0.4
Xylene (total)	0.601	0.611	-1.7
Toluene-d8	1.246	1.275	-2.3
Bromofluorobenzene	0.742	0.726	2.2
1,2-Dichloroethane-d4	1.759	1.699	3.4

7A

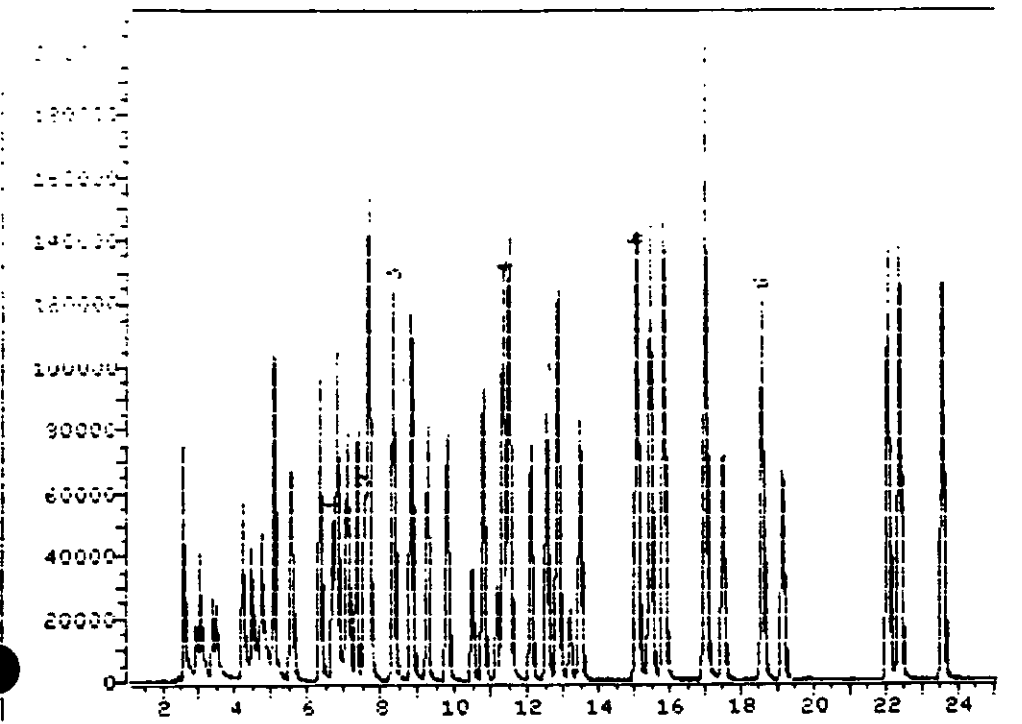
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____Instrument ID: V6 Calibration date: 10/11/91 Time: 2151Lab File ID: F2909 Init. Calib. Date(s): 09/22/91 09/22/91Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	1.246	1.269	-1.8
Bromomethane	1.055	1.197	-13.5
Vinyl Chloride	1.258	1.378	-9.5
Chloroethane	0.651	0.680	-4.5
Methylene Chloride	1.704	1.951	-14.5
Acetone	0.211	0.270	-28.0
Carbon Disulfide	4.156	4.299	-3.4
1,1-Dichloroethene	1.387	1.499	-8.1
1,1-Dichloroethane	3.250	3.531	-8.6
1,2-Dichloroethene (total)	1.727	1.888	-9.3
Chloroform	3.857	4.030	-4.5
1,2-Dichloroethane	2.171	2.482	-14.3
2-Butanone	0.111	0.140	-26.1
1,1,1-Trichloroethane	0.560	0.575	-2.7
Carbon Tetrachloride	0.479	0.464	3.1
Vinyl Acetate	0.538	0.468	13.0
Bromodichloromethane	0.622	0.601	3.4
1,2-Dichloropropane	0.407	0.417	-2.5
cis-1,3-Dichloropropene	0.603	0.611	-1.3
Trichloroethene	0.415	0.433	-4.3
Dibromochloromethane	0.501	0.511	-2.0
1,1,2-Trichloroethane	0.316	0.343	-8.5
Benzene	1.001	1.015	-1.4
trans-1,3-Dichloropropene	0.470	0.487	-3.6
2-Chloroethylvinylether	0.190	0.196	-3.2
Bromoform	0.302	0.312	-3.3
4-Methyl-2-Pentanone	0.332	0.357	-7.5
2-Hexanone	0.236	0.257	-8.9
Tetrachloroethene	0.430	0.440	-2.3
1,1,2,2-Tetrachloroethane	0.596	0.594	0.3
Toluene	0.839	0.852	-1.5
Chlorobenzene	1.057	1.026	2.9
Ethylbenzene	0.509	0.504	1.0
Styrene	1.098	1.064	3.1
Xylene (total)	0.601	0.574	4.5
Toluene-d8	1.246	1.201	3.6
Bromofluorobenzene	0.742	0.770	-3.8
1,2-Dichloroethane-d4	1.759	1.936	-10.1

FILE: 911019 11:54:00 11:54:00 11:54:00
40. 911 2111 2111



Data File: 7A3626::D1 Quant Output File: 7A3626::Q1
Name: U510 U5U 5ML
Misc: U1, UH1 , 5UL IS/S

Id File: UQAID1::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO
Last Calibration: 911018 21:10

Operator ID: ALANA
Quant Time: 911019 11:54
Injected at: 911019 11:28

Report Date: 11/11/11
 Report Time: 11:11:11
 Date: 11/11/11
 Name: 11/11/11
 Method: 11/11/11

In File: 11/11/11
 Title: 11/11/11
 Last Calibration: 11/11/11

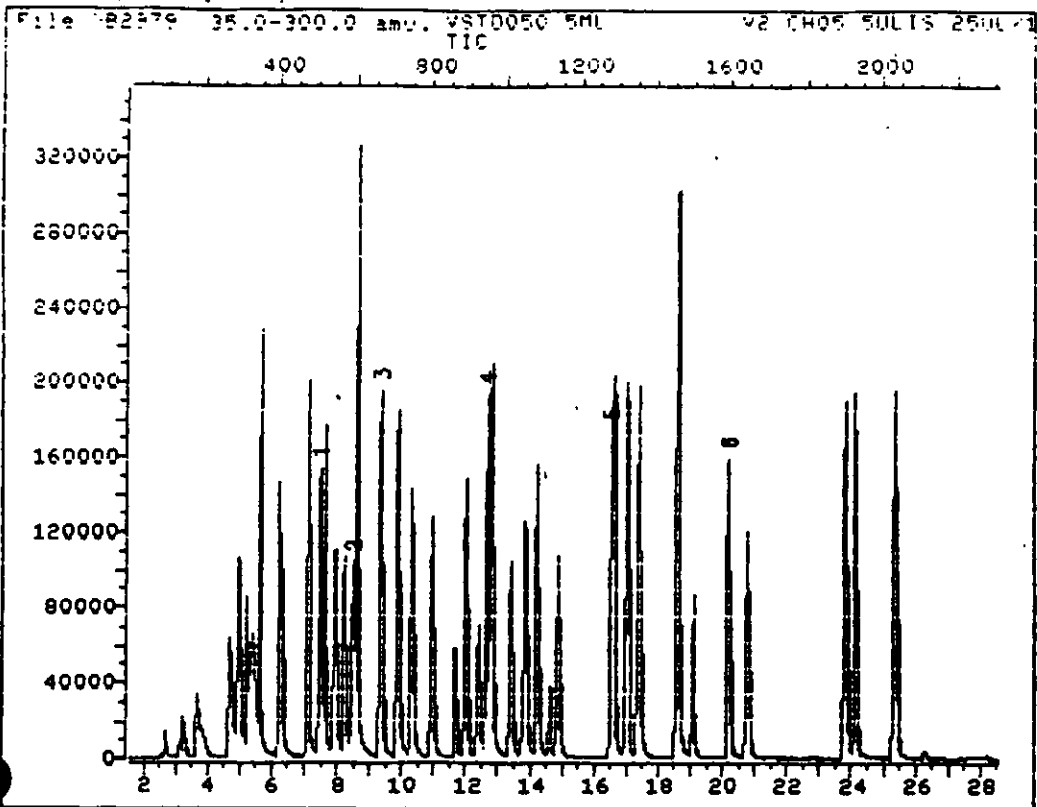
	Compound	R.T.	Conc	Area	Conc	Units	g
11	*C101 Bromochloromethane	6.66	128.0	59192MP	50.00	UG/L	92
21	C010 Chloromethane	2.92	50.0	53265	55.05	UG/L	86
31	C020 Vinyl Chloride	3.02	62.0	66797	54.06	UG/L	89
41	C015 Bromomethane	3.33	94.0	42966	34.56	UG/L	92
51	C025 Chloroethane	3.43	64.0	39421	48.58	UG/L	97
61	C045 1,1-Dichloroethene	4.20	96.0	5458MP	45.22	UG/L	90
71	C035 Acetone	4.28	43.0	15559	51.34	UG/L	100
81	C040 Carbon Disulfide	4.45	76.0	172226	41.51	UG/L	100
91	C030 Methylene Chloride	4.72	84.0	70004	48.44	UG/L	98
101	C053 Trans-1,2-Dichloroethene	5.02	96.0	84152	48.18	UG/L	98
111	C055 cis-1,2-Dichloroethene	6.32	96.0	99855	50.09	UG/L	85
121	C050 1,1-Dichloroethane	5.55	63.0	153470	48.30	UG/L	88
131	C060 Chloroform	6.78	83.0	186686	48.98	UG/L	95
141	C065 1,2-Dichloroethane	7.69	62.0	125948	47.23	UG/L	100
151	C110 2-Butanone	6.35	72.0	9030	60.58	UG/L	80
161	C015 04-1,2-Dichloroethane	7.56	65.0	110331	50.34	UG/L	93
171	*C110 1,4-Difluorobenzene	8.32	114.0	298536	50.00	UG/L	100
181	C125 Vinyl Acetate	5.61	43.0	104579	59.69	UG/L	99
191	C115 1,1,1-Trichloroethane	7.06	97.0	143922	43.41	UG/L	94
201	C120 Carbon Tetrachloride	7.32	117.0	139470	42.55	UG/L	99
211	C165 Benzene	7.65	78.0	281725	47.77	UG/L	100
221	C150 Trichloroethene	8.79	130.0	121132	46.12	UG/L	94
231	C140 1,2-Dichloropropane	9.22	63.0	101611	48.66	UG/L	100
241	C130 Bromodichloromethane	9.78	83.0	151155	47.69	UG/L	81
251	C175 2-Chloroethylvinylether	10.45	63.0	54261	50.89	UG/L	94
261	C143 Cis-1,3-Dichloropropen	10.75	75.0	167908	51.57	UG/L	95
271	C172 Trans-1,3-Dichloropropen	12.07	75.0	124685	44.36	UG/L	100
281	C160 1,1,2-Trichloroethane	12.50	97.0	87896	47.51	UG/L	69
291	C155 Dibromochloromethane	13.48	129.0	148274	46.38	UG/L	93
301	C180 Bromoform	17.48	173.0	124194	47.17	UG/L	99
311	*C120 05-Chlorobenzene	15.03	117.0	232914	50.00	UG/L	100
321	C005 08-Toluene	11.34	98.0	307993	50.68	UG/L	73
331	C205 4-Methyl-2-Pentanone	11.14	43.0	77772	51.63	UG/L	80
341	C230 Toluene	11.50	92.0	181381	47.96	UG/L	96
351	C210 2-Hexanone	13.21	43.0	53984	51.31	UG/L	97
361	C220 Tetrachloroethene	12.81	164.0	116891	46.37	UG/L	88
371	C235 Chlorobenzene	15.10	112.0	237439	47.29	UG/L	68
381	C240 Ethylbenzene	15.47	106.0	121868	49.80	UG/L	99
391	CXXX Xylene (p)	15.83	106.0	148460	49.14	UG/L	99
401	CXXX Xylene (o)	16.96	106.0	134730	49.27	UG/L	95
411	C245 Styrene	17.03	104.0	232082	48.04	UG/L	100
421	C225 1,1,2,2-Tetrachloroethan	19.14	83.0	135341	53.18	UG/L	94
431	C010 Bromofluorobenzene (BFB)	18.54	85.0	132550	51.10	UG/L	94

000205

Compound	Area	Area %	Height	Height %	Height %
121 1111 Dichlorobenzene (m)	11.77	146.0	210000	45.10	45.10
121 1140 Dichlorobenzene (p)	22.74	146.0	210000	45.10	45.10
121 1170 Dichlorobenzene (o)	25.84	146.0	210000	45.10	45.10
121 1190 Styrene (total)	16.76	100.0	100000	45.10	45.10

* Compound is 1510

TOTAL ION CHROMATOGRAM



Data File: >B2979::D6

Quant Output File: ^B2979::QT

Name: VSTD050 5ML

Misc: V2 CH05 5ULIS 25UL/100ML A+B+HSL

Id File: UDAID2::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO

Last Calibration: 911012 13:56

Operator ID: NORA

Quant Time: 911014 14:03

Injected at: 911014 13:34

QUANT REPORT

Operator ID: NORA
 Output File: >B2979::QT
 Data File: >B2979::D6
 Name: USTOU50 5ML
 Misc: U2 CH05 5ULIS 25UL/100ML A+B+HSL

Quant Rev: 6 Quant Time: 911014 14:55
 Injected at: 911014 13:34
 Dilution Factor: 1.00000

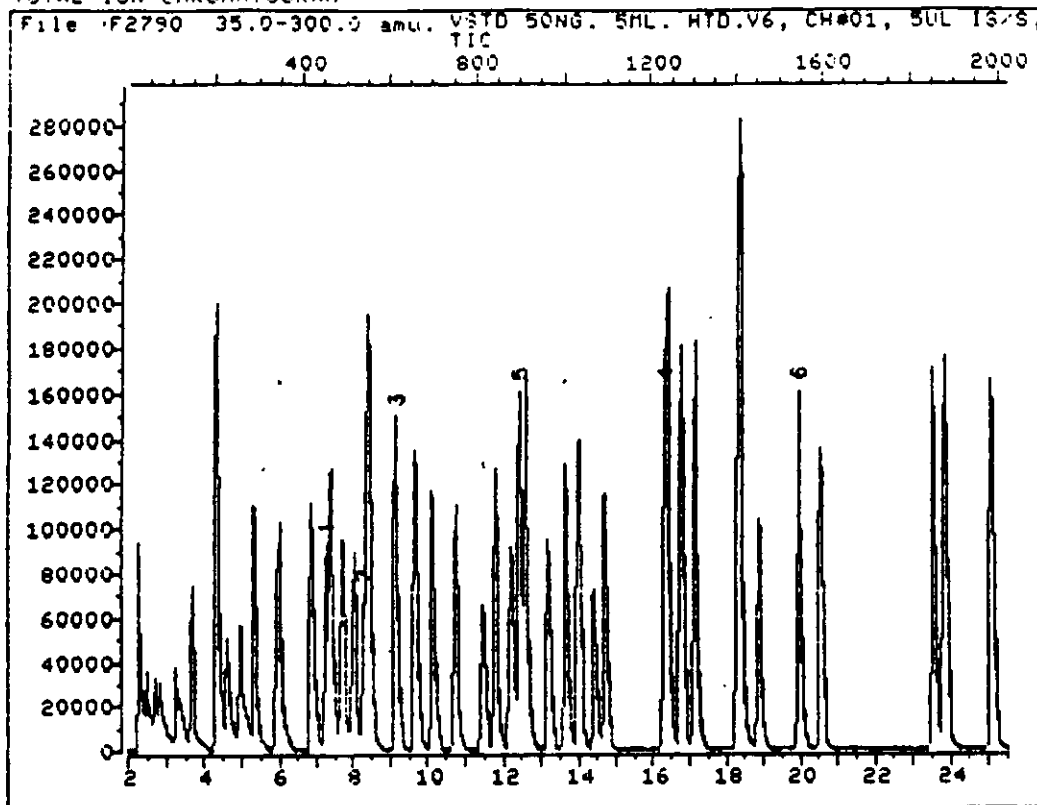
ID File: UOAI02::\$\$
 Title: HSL VOLATILES:1U5mmx.53mm:DB624:U2:ERCO/ENSECO
 Last Calibration: 911012 13:56

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.47	128.0		100554	50.00	UG/L	80
2)	C010 Chloromethane	3.10	50.0		34365	59.11	UG/L	99
3)	C020 Vinyl Chloride	3.24	62.0		76036	51.87	UG/L	87
4)	C015 Bromomethane	3.65	94.0		102259	66.91	UG/L	93
5)	C025 Chloroethane	3.84	64.0		73394	55.06	UG/L	93
6)	C045 1,1-Dichloroethene	4.71	96.0		114792	60.23	UG/L	97
7)	C035 Acetone	4.69	43.0		42677	67.81	UG/L	100
8)	C040 Carbon Disulfide	4.95	76.0		486804	72.52	UG/L	100
9)	C030 Methylene Chloride	5.23	84.0		265165	277.90	UG/L	89
10)	C053 Trans-1,2-Dichloroethene	5.60	96.0		198693	48.94	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.09	96.0		201534	46.24	UG/L	96
12)	C050 1,1-Dichloroethane	6.20	63.0		371383	49.08	UG/L	86
13)	C060 Chloroform	7.61	83.0		355906	48.62	UG/L	94
14)	C065 1,2-Dichloroethane	8.62	62.0		231752	50.38	UG/L	100
15)	C110 2-Butanone	7.12	43.0		108724	52.12	UG/L	96
16)	CS15 D4-1,2-Dichloroethane	8.48	65.0		166194	54.19	UG/L	85
17)	*C110 1,4-Difluorobenzene	9.35	114.0		448145	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.29	43.0		415491	47.96	UG/L	96
19)	C115 1,1,1-Trichloroethane	7.94	97.0		214651	50.36	UG/L	93
20)	C120 Carbon Tetrachloride	8.23	117.0		204201	50.26	UG/L	99
21)	C165 Benzene	8.60	78.0		559043	46.18	UG/L	100
22)	C150 Trichloroethene	9.87	130.0		184139	45.20	UG/L	98
23)	C140 1,2-Dichloropropane	10.32	63.0		187301	45.71	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0		255107	47.98	UG/L	80
25)	C175 2-Chloroethylvinylether	11.67	63.0		90114	50.76	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.99	75.0		274429	48.95	UG/L	95
27)	C172 Trans-1,3-Dichloropropen	13.38	75.0		178445	44.40	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.84	97.0		132574	47.61	UG/L	71
29)	C155 Dibromochloromethane	14.87	129.0		189282	49.32	UG/L	98
30)	C180 Bromoform	19.07	173.0		135195	50.88	UG/L	97
31)	*C120 O5-Chlorobenzene	16.51	117.0		321576	50.00	UG/L	100
32)	CS05 O8-Toluene	12.63	98.0		429007	49.46	UG/L	93
33)	C205 4-Methyl-2-Pentanone	12.40	43.0		183383	50.75	UG/L	85
34)	C230 Toluene	12.80	92.0		279061	45.26	UG/L	97
35)	C210 2-Hexanone	14.60	43.0		100429	56.28	UG/L	99
36)	C220 Tetrachloroethene	14.21	164.0		131923	46.57	UG/L	89
37)	C235 Chlorobenzene	16.59	112.0		328361	46.03	UG/L	74
38)	C240 Ethylbenzene	17.00	106.0		153031	46.44	UG/L	96
39)	CXXX Xylene (p)	17.37	106.0		191688	47.55	UG/L	98
40)	CXXX Xylenes (o)	18.55	106.0		200489	45.11	UG/L	93
41)	C245 Styrene	18.61	104.0		317627	45.91	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.79	83.0		258865	45.04	UG/L	93

	Compound	R.T.	Q Ion	Area	Conc	Units	
44)	E335 Dichlorobenzene (m)	23.81	146.0	275269	46.41	UG/L	100
45)	E340 Dichlorobenzene (p)	24.12	146.0	301527	46.48	UG/L	100
46)	E350 Dichlorobenzene (o)	25.36	146.0	313621	46.92	UG/L	100
47)	E250 Xylene (Total)	18.55	106.0	199653	45.58	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F2790::D6

Quant Output File: ^F2790::D7

Name: USTD 50NG. 5ML. HTD.

Instrument ID: U6

Misc: U6, CH#01, SUL IS/S, STD=25UL/100ML HSL,A,B,FREONS, 50

Id File: HAMID6::MT

Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO

Last Calibration: 910408 11:20

Last Qcal Time: 911004 12:08

Operator ID: KERYLYNN

Quant Time : 911008 08:36

Injected at: 911008 08:09

STATE OF TEXAS

Year	1948	1949	1950	1951	1952	1953	1954
1	10.77	11.02	11.27	11.52	11.77	12.02	12.27
2	12.04	12.29	12.54	12.79	13.04	13.29	13.54
3	13.31	13.56	13.81	14.06	14.31	14.56	14.81
4	14.58	14.83	15.08	15.33	15.58	15.83	16.08
5	15.85	16.10	16.35	16.60	16.85	17.10	17.35

QUANT REPORT

Page 1

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 911008 08:30
 Output File: ^F2790::D7 Injected at: 911008 08:09
 Data File: >F2790::D6 Dilution Factor: 1.00000
 Name: USTD 50NG. 5ML. HTD. Instrument ID: U6
 Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HSL,A,B,FREONS, 50

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
 Last Calibration: 910408 11:20 Last Qcal Time: 911004 12:08

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.23	128.0	91542	50.00	UG/L	86
2)	C012 Dichlorodifluoromethane	2.44	85.0	98474	29.15	UG/L	84
3)	C010 Chloromethane	2.67	50.0	101050	50.38	UG/L	93
4)	C020 Vinyl Chloride	2.81	62.0	99740	47.40	UG/L	86
5)	C015 Bromomethane	3.22	94.0	100961	59.60	UG/L	95
6)	C025 Chloroethane	3.34	64.0	55083	50.90	UG/L	99
7)	C028 Trichlorofluoromethane	3.65	101.0	177069	37.81	UG/L	88
8)	C045 1,1-Dichloroethene	4.29	96.0	92671	36.92	UG/L	89
9)	C038 1,1,2-Trichloro-1,2,2-tri	4.29	101.0	211081	79.85	UG/L	89
10)	C035 Acetone	4.40	43.0	39722	32.08	UG/L	11
11)	C040 Carbon Disulfide	4.60	76.0	273920	37.58	UG/L	100
12)	C030 Methylene Chloride	4.95	84.0	133387	44.05	UG/L	86
13)	C053 Trans-1,2-dichloroethene	5.31	96.0	136119	42.50	UG/L	96
14)	C055 Cis-1,2-dichloroethene	6.82	96.0	155755	43.97	UG/L	83
15)	C050 1,1-Dichloroethane	5.92	63.0	261647	42.53	UG/L	100
16)	C060 Chloroform	7.37	83.0	291562	42.08	UG/L	99
17)	C065 1,2-Dichloroethane	8.40	62.0	196420	44.04	UG/L	100
18)	C110 2-Butanone	6.88	72.0	28847	54.81	UG/L	99
19)	CS15 04-1,2-dichloroethane	8.26	65.0	157053	46.56	UG/L	88
20)	*C110 1,4-Difluorobenzene	9.12	114.0	441917	50.00	UG/L	100
21)	C125 Vinyl Acetate	5.99	43.0	411297	58.38	UG/L	99
22)	C115 1,1,1-Trichloroethane	7.70	97.0	235534	42.49	UG/L	87
23)	C120 Carbon Tetrachloride	7.98	117.0	193666	41.94	UG/L	92
24)	C165 Benzene	8.36	78.0	421065	41.73	UG/L	100
25)	C150 Trichloroethane	9.64	130.0	170815	39.85	UG/L	98
26)	C140 1,2-Dichloropropane	10.11	63.0	177881	42.79	UG/L	100
27)	C130 Bromodichloromethane	10.73	83.0	284395	44.45	UG/L	79
28)	C175 2-Chloroethylvinylether	11.46	63.0	118827	43.34	UG/L	99
29)	C143 Cis-1,3-Dichloropropene	11.78	75.0	277685	45.31	UG/L	96
30)	C172 Trans-1,3-dichloropropene	13.19	75.0	209583	40.00	UG/L	100
31)	C160 1,1,2-Trichloroethane	13.64	97.0	168612	45.45	UG/L	72
32)	C155 Dibromochloromethane	14.68	129.0	248306	44.82	UG/L	91
33)	C180 Bromoform	18.87	173.0	186111	49.43	UG/L	99
34)	*C120 05-Chlorobenzene	16.30	117.0	336266	50.00	UG/L	100
35)	CS05 08-Toluene	12.42	98.0	421899	49.67	UG/L	95
36)	C205 4-Methyl-2-pentanone	12.20	43.0	308065	56.46	UG/L	87
37)	C230 Toluene	12.59	92.0	277600	43.18	UG/L	90
38)	C210 2-Hexanone	14.41	43.0	234827	52.88	UG/L	99
39)	C220 Tetrachloroethene	13.99	164.0	143392	42.16	UG/L	88
40)	C235 Chlorobenzene	14.38	112.0	351030	43.90	UG/L	74

QUANT REPORT

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Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 911008 08:36
 Output File: ^F2790::D7 Injected at: 911008 08:09
 Data File: >F2790::D6 Dilution Factor: 1.00000
 Name: USTD 50NG. 5ML. HTD. Instrument ID: U6
 Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HSL,A,B,FREONS, 50

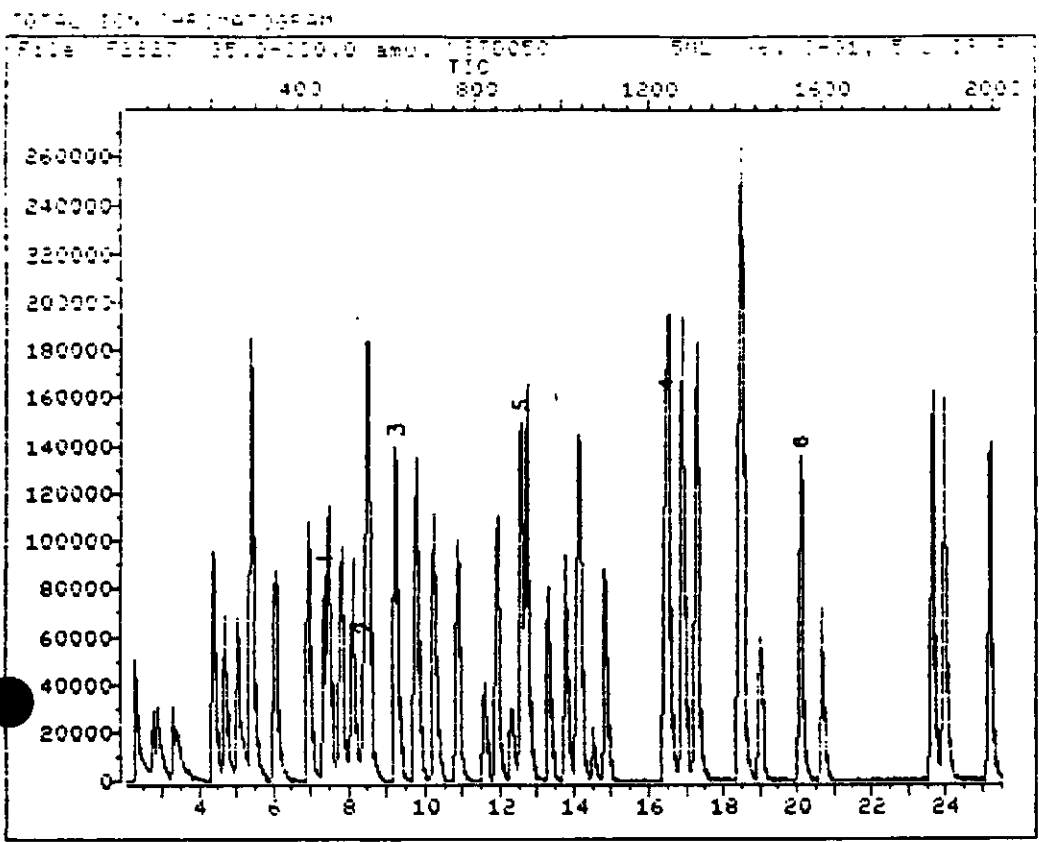
ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
 Last Calibration: 910408 11:20 Last Qcal Time: 911004 12:08

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C245 Styrene	18.37	104.0	365473	42.62	UG/L	100
45)	C225 1,1,2,2-Tetrachloroethane	20.55	83.0	338248	49.00	UG/L	93
46)	CS10 Bromofluorobenzene	19.95	95.0	253995	50.47	UG/L	72
47)	C335 Dichlorobenzene (m)	23.52	146.0	308235	43.36	UG/L	100
48)	C340 Dichlorobenzene (p)	23.85	146.0	323136M	49.16	UG/L	100
49)	C350 Dichlorobenzene (o)	25.07	146.0	298021M	43.26	UG/L	100
50)	C250 Xylenes (total)	18.31	106.0	208945M	44.93	UG/L	96

* Compound is ISTD

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Data File: >F2827::D6 Quant Output File: ^F2827::D7
 Name: USTD050 5ML Instrument ID: U6
 Misc: U6, CH01, 5UL IS/S 25UL/100ML + 5UL MTBE

Id File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911008 21:54

Operator ID: KERYLYNN
 Quant Time : 911009 10:55
 Injected at: 911009 10:28

Operator ID: PEPYLYNN Quant Rev: 7 Quant Time: 911009 10:28
 Output File: F2927:07 Injected at: 911009 10:28
 Data File: F2927:06 Dilution Factor: 1.00000
 Name: MET050 FMI Instrument ID: 06
 Misc: 06, CH01, 5UL IS 5 25UL 100ML + 5UL MTBE

MO File: MOBID6:MT

Title: HSL VOLATILES: 25m x .53mm: DB624 06 ERDOMENSECO

Last Calibration: 910814 09:37

Last Qual Time: 911009 21:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.33	128.0	75510	50.00	UG/L	71
2)	C010 Chloromethane	2.73	50.0	99943	55.93	UG/L	99
3)	C020 Vinyl Chloride	2.87	62.0	101935	54.40	UG/L	84
4)	C015 Bromomethane	3.28	94.0	91789	49.82	UG/L	91
5)	C025 Chloroethane	3.41	64.0	37922	32.66	UG/L	96
	C045 1,1-Dichloroethene	4.38	96.0	113802	51.88	UG/L	94
7)	C035 Acetone	4.44	43.0	13920	50.31	UG/L	23
8)	C040 Carbon Disulfide	4.69	76.0	334810	54.70	UG/L	100
9)	C030 Methylene Chloride	5.03	84.0	135911	51.97	UG/L	91
11)	C053 Trans-1,2-dichloroethene	5.41	96.0	139247	50.56	UG/L	96
12)	C055 Cis-1,2-dichloroethene	6.94	96.0	149748	52.11	UG/L	81
13)	CXXX Methyl tert-butyl ether	5.41	73.0	239531	48.92	UG/L	89
14)	C050 1,1-Dichloroethane	6.03	63.0	266766	52.38	UG/L	100
15)	C060 Chloroform	7.48	83.0	286198	49.43	UG/L	95
16)	C065 1,2-Dichloroethane	8.51	62.0	164138	51.59	UG/L	100
17)	C110 2-Butanone	6.96	72.0	8235	47.57	UG/L	96
18)	CS15 D4-1,2-dichloroethane	8.37	65.0	118610	45.49	UG/L	82
19)	*C110 1,4-Difluorobenzene	9.23	114.0	407259	50.00	UG/L	100
20)	C125 Vinyl Acetate	6.10	43.0	246295	49.72	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.80	97.0	243305	53.92	UG/L	91
22)	C120 Carbon Tetrachloride	8.10	117.0	199472	52.04	UG/L	98
23)	C165 Benzene	8.49	78.0	403493	49.15	UG/L	100
24)	C150 Trichloroethene	9.76	130.0	173394	51.61	UG/L	95
25)	C140 1,2-Dichloropropane	10.24	63.0	165220	51.94	UG/L	100
26)	C130 Bromodichloromethane	10.86	83.0	244413	51.31	UG/L	77
27)	C175 2-Chloroethylvinylether	11.59	63.0	72344	57.93	UG/L	97
28)	C143 Cis-1,3-Dichloropropene	11.91	75.0	251615	52.67	UG/L	98
29)	C172 Trans-1,3-dichloropropene	13.31	75.0	167932	46.75	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.79	97.0	120208	50.77	UG/L	72
31)	C155 Dibromochloromethane	14.83	129.0	190425	50.97	UG/L	91
	C180 Bromoform	19.01	173.0	106999	50.52	UG/L	93
33)	*C120 D5-Chlorobenzene	16.44	117.0	308421	50.00	UG/L	100
34)	CS05 D8-Toluene	12.55	98.0	400363	50.48	UG/L	94
35)	C205 4-Methyl-2-pentanone	12.31	43.0	99930	50.16	UG/L	86
36)	C230 Toluene	12.71	92.0	279066	50.87	UG/L	87
37)	C210 2-Hexanone	14.51	43.0	65728	51.20	UG/L	96
38)	C220 Tetrachloroethene	14.13	164.0	144216	50.19	UG/L	82
39)	C235 Chlorobenzene	16.51	112.0	335211	50.22	UG/L	75

QUANT REPORT

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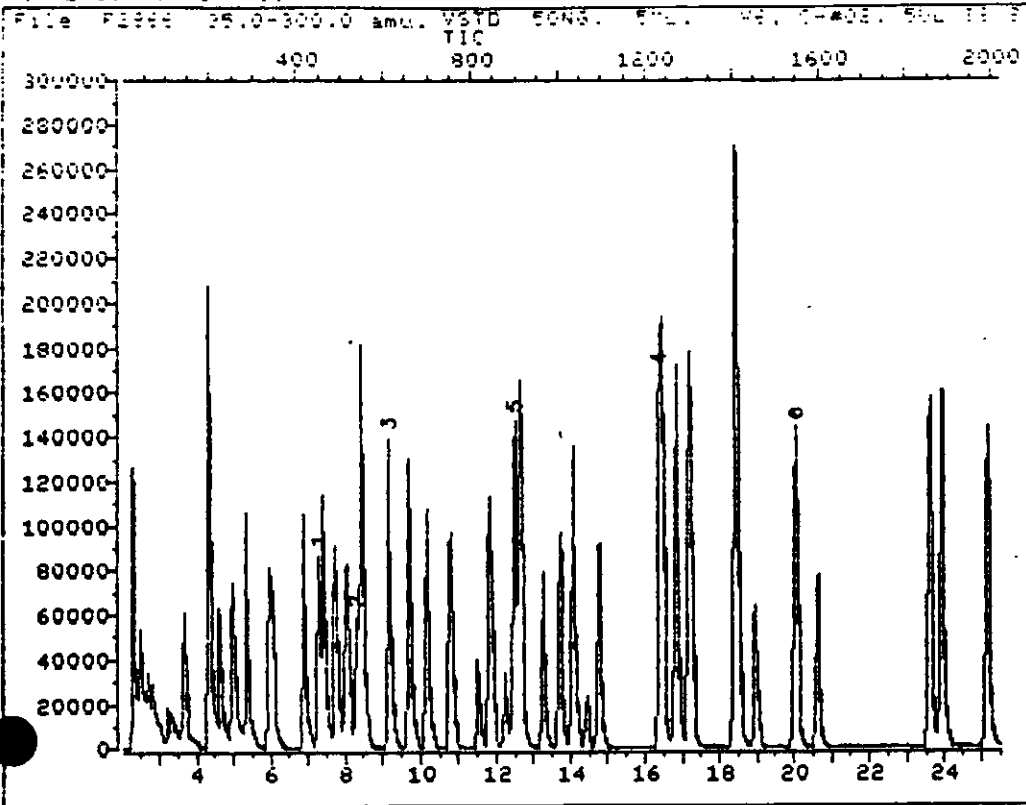
Operator ID: KERYLANN Quant Rev: 7 Quant Time: 911009 10:45
 Output File: >F0927:07 Injected at: 911009 10:28
 Data File: >F0927:06 Dilution Factor: 1.00000
 Name: USTD050 Instrument ID: 06
 Misc: 06, CH01, 5UL IS S 25UL/100ML + 5UL MTBE

ID File: MOBID6:MT
 Title: HSL VOLATILES: 75m x .53mm: 08624 06 ERCD/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911008 21:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
45)	C510 Bromofluorobenzene	20.09	95.0	220101	49.28	UG/L	68
46)	C335 Dichlorobenzene (m)	23.64	146.0	289245	49.44	UG/L	100
47)	C340 Dichlorobenzene (p)	23.96	146.0	261567	48.31	UG/L	100
48)	C350 Dichlorobenzene (o)	25.19	146.0	259603	48.89	UG/L	100
	C250 Xylenes (total)	18.46	106.0	196274	50.19	UG/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F2866::D6

Quant Output File: ^F2866::D7

Name: USTD 50NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL IS/S, STO=25UL/100ML HSL,A,B,CL3F,CL2F2

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911009 21:13

Operator ID: KERYLYNN

Quant Time : 911010 11:31

Injected at: 911010 11:03

QUANT REPORT

Page 1

Operator ID: KERYLYNN
 Output File: >F2866::D7
 Data File: >F2866::D6
 Name: USTD 50NG. 5ML.
 Misc: U6, CH#02, 5UL 15/S, STD=25UL/100ML

Quant Pev: 2 Quant Time: 911010 11:31
 Injected at: 911010 11:03
 Dilution Factor: 1.00000
 Instrument ID: U6
 HSL,A,B,CL3F,CL2F2

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qual Time: 911009 21:13

Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.26	128.0		76639	50.00	UG/L	70
2) C010 Chloromethane	2.68	50.0		89916M	44.08	UG/L	96
3) C020 Vinyl Chloride	2.84	62.0		78498M	39.32	UG/L	85
4) C015 Bromomethane	3.22	94.0		61802M	29.31	UG/L	94
5) C025 Chloroethane	3.35	64.0		37015M	26.70	UG/L	95
6) C045 1,1-Dichloroethene	4.33	96.0		94661	39.16	UG/L	89
7) C035 Acetone	4.41	43.0		15907	53.83	UG/L	17
8) C040 Carbon Disulfide	4.62	76.0		283058	34.27	UG/L	100
9) C030 Methylene Chloride	4.96	84.0		133335	42.98	UG/L	86
11) C053 Trans-1,2-dichloroethene	5.34	96.0		127087	40.81	UG/L	98
12) C055 Cis-1,2-dichloroethene	6.87	96.0		137234	41.67	UG/L	94
14) C050 1,1-Dichloroethane	5.96	63.0		248461	43.56	UG/L	100
15) C060 Chloroform	7.40	83.0		276333	43.85	UG/L	98
16) C065 1,2-Dichloroethane	8.44	62.0		165973	46.37	UG/L	100
17) C110 2-Butanone	6.88	72.0		8823	50.57	UG/L	92
18) CS15 D4-1,2-dichloroethane	8.30	65.0		130166	49.95	UG/L	85
19) *CI10 1,4-Difluorobenzene	9.15	114.0		407218	50.00	UG/L	100
20) C125 Vinyl Acetate	6.03	43.0		248085	50.50	UG/L	98
21) C115 1,1,1-Trichloroethane	7.73	97.0		222940	44.69	UG/L	88
22) C120 Carbon Tetrachloride	8.02	117.0		182726	44.15	UG/L	97
23) C165 Benzene	8.41	78.0		394283	45.88	UG/L	100
24) C150 Trichloroethene	9.69	130.0		160083	43.74	UG/L	97
25) C140 1,2-Dichloropropane	10.15	63.0		160817	45.16	UG/L	100
26) C130 Bromodichloromethane	10.78	83.0		241474	46.22	UG/L	80
27) C175 2-Chloroethylvinylether	11.51	63.0		71859	64.58	UG/L	91
28) C143 Cis-1,3-Dichloropropene	11.82	75.0		251092	50.23	UG/L	99
29) C172 Trans-1,3-dichloropropene	13.23	75.0		170794	45.56	UG/L	100
30) C160 1,1,2-Trichloroethane	13.70	97.0		126529M	51.54	UG/L	98
31) C155 Dibromochloromethane	14.75	129.0		192847	49.10	UG/L	97
32) C180 Bromoform	18.95	173.0		111775	49.94	UG/L	96
33) *CI20 O5-Chlorobenzene	16.37	117.0		313165	50.00	UG/L	100
34) CS05 D8-Toluene	12.47	98.0		399081	51.01	UG/L	94
35) C205 4-Methyl-2-pentanone	12.23	43.0		110816	59.92	UG/L	86
36) C230 Toluene	12.64	92.0		266605	44.54	UG/L	96
37) C210 2-Hexanone	14.43	43.0		72269	55.09	UG/L	96
38) C220 Tetrachloroethene	14.05	164.0		137754	46.76	UG/L	87
39) C235 Chlorobenzene	16.45	112.0		319645	43.84	UG/L	74
40) C240 Ethylbenzene	16.83	106.0		160760	43.80	UG/L	99
41) CXXX Xylenes (p)	17.20	106.0		208594	46.61	UG/L	94
42) CXXX Xylenes (o)	18.38	106.0		105000	45.11	UG/L	94

QUANT REPORT

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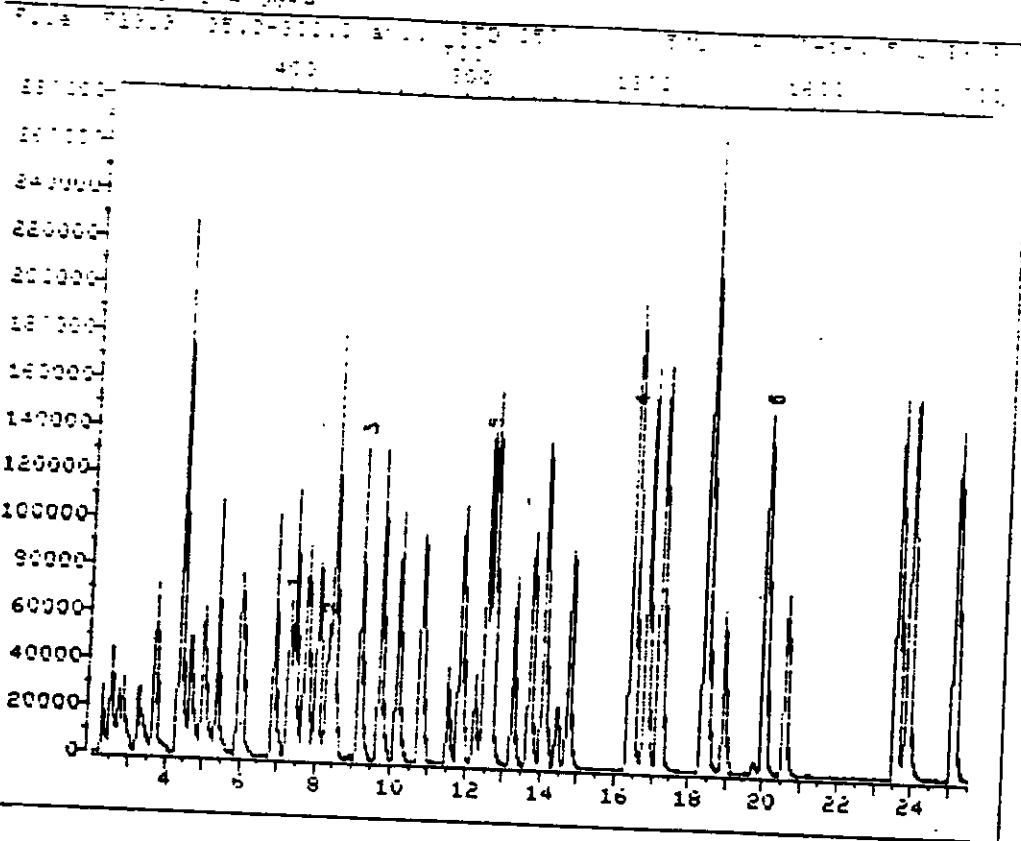
Operator ID: KERYLYNN Quant Rev: Quant Time: 911010 11:31
 Output File: >F2866::D7 Injected at: 911010 11:03
 Data File: >F2866::D6 Dilution Factor: 1.00000
 Name: ISTD 50NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL IS/S, STD=25UL/100ML HSL,A,B,CL3F,CL2F2

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911009 21:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	C335 Dichlorobenzene (m)	23.60	146.0	281632	54.28	UG/L	100
47)	C340 Dichlorobenzene (p)	23.91	146.0	257875	52.74	UG/L	100
48)	C350 Dichlorobenzene (o)	25.15	146.0	261411	52.89	UG/L	100
49)	C250 Xylenes (total)	18.38	106.0	191180	46.25	UG/L	92

* Compound is ISTD

TITLE: HSL VOLATILES



Data File: >F2909::D6
Name: USTD 050 5ML
Misc: U6, CH16, 5UL IS/S

Quant Output File: ^F2909::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911010 22:48

Operator ID: KERYLYNN
Quant Time : 911011 22:25
Injected at: 911011 21:51

Operator: JG
 Sample File: 80000107
 Date File: F2009106
 Name: NIST0909 SML
 Method: 16, C16, SUL 15MS

Quant File: Quant File
 Quant Time: 9:10:10
 Injected Vol: 1.0001
 Dilution Factor: 1.0000
 Instrument ID: 06

Data File: M09106107
 Title: HSL VOLATILES: 75m x .53mm: 05024 16 EPCOMENSECO
 Last Calibration: 910914 09:37
 Last Qual Time: 911010 22:48

Compound	R.T.	Q Ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.26	128.0	66141	50.00	UG/L	71
2) C010 Chloromethane	2.70	50.0	83907	48.94	UG/L	98
3) C020 Vinyl Chloride	2.82	62.0	91095	50.08	UG/L	87
4) C015 Bromomethane	3.23	94.0	79136	52.33	UG/L	93
5) C025 Chloroethane	3.35	64.0	44933	46.19	UG/L	93
6) C045 1,1-Dichloroethene	4.33	96.0	99061	47.65	UG/L	88
7) C035 Acetone	4.40	43.0	17859	61.32	UG/L	18
8) C040 Carbon Disulfide	4.62	76.0	284136	49.96	UG/L	100
9) C030 Methylene Chloride	4.97	84.0	128942	50.02	UG/L	84
10) C053 Trans-1,2-dichloroethene	5.34	96.0	124809	49.45	UG/L	98
12) C055 Cis-1,2-dichloroethene	6.86	96.0	139231	51.56	UG/L	95
14) C050 1,1-Dichloroethane	5.95	63.0	233427	49.09	UG/L	100
15) C060 Chloroform	7.39	83.0	266419	50.07	UG/L	98
16) C065 1,2-Dichloroethane	8.44	62.0	164058	54.00	UG/L	100
17) C110 2-Butanone	6.87	72.0	9283	56.48	UG/L	90
18) C015 D4-1,2-dichloroethane	8.29	65.0	128000	52.33	UG/L	85
19) *C110 1,4-Difluorobenzene	9.15	114.0	387963	50.00	UG/L	100
20) C125 Vinyl Acetate	6.03	43.0	181424	46.85	UG/L	99
21) C115 1,1,1-Trichloroethane	7.72	97.0	222968	51.56	UG/L	82
22) C120 Carbon Tetrachloride	8.02	117.0	180035	52.25	UG/L	96
23) C165 Benzene	8.39	78.0	393799	51.44	UG/L	100
24) C150 Trichloroethene	9.68	130.0	168125	51.18	UG/L	94
25) C140 1,2-Dichloropropane	10.15	63.0	161938	52.69	UG/L	100
26) C130 Bromodichloromethane	10.76	83.0	233228	53.48	UG/L	84
27) C175 2-Chloroethylvinylether	11.49	63.0	75943	61.10	UG/L	97
28) C143 Cis-1,3-Dichloropropene	11.81	75.0	251105	59.29	UG/L	94
29) C172 Trans-1,3-dichloropropene	13.23	75.0	173993	52.79	UG/L	100
30) C160 1,1,2-Trichloroethane	13.67	97.0	133027	57.61	UG/L	84
31) C155 Dibromochloromethane	14.72	129.0	198097	57.84	UG/L	98
32) C180 Bromoform	18.92	173.0	121226	61.67	UG/L	95
33) *C120 D5-Chlorobenzene	16.34	117.0	316340	50.00	UG/L	100
4) C005 D8-Toluene	12.45	98.0	379527	49.13	UG/L	98
5) C205 4-Methyl-2-pentanone	12.22	43.0	112909	57.75	UG/L	91
6) C230 Toluene	12.62	92.0	269175	53.35	UG/L	90
7) C210 2-Hexanone	14.43	43.0	81057	61.24	UG/L	97
8) C220 Tetrachloroethene	14.03	164.0	138910	53.81	UG/L	87
9) C235 Chlorobenzene	16.44	112.0	324142	52.20	UG/L	72
0) C240 Ethylbenzene	16.80	106.0	159209	50.23	UG/L	99
1) CXXX Xylenes (p)	17.18	106.0	202793	51.42	UG/L	84
2) CXXX Xylenes (o)	18.35	106.0	189305	50.91	UG/L	84
3) C245 Styrene	18.42	104.0	336332	51.86	UG/L	100
4) C225 1,1,2,2-Tetrachloroethane						

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Page 1

Generator ID: VAPYLWIN
Lab File: F0909:07
Data File: F0909:06
Name: NSTD 090 5ML
Misc: 16, CH16, PUL 1575

Client Ref: 7 Inj. Time: 40.0000000
Inj. Vol: 5.0000000
Dilution Factor: 1.0000000
Instrument ID: 76

Q File: NSTD06:INT
Title: HCL VOLATILES: 75m x .53mm: DB624 06 EPD01ENB00
Last Calibration: 910914 09:37 Last Cal. Time: 911010 20:40

Compound	R.T.	Q Ion	Area	Conc	Units	q
46) C335 Dichlorobenzene (m)	23.56	146.0	286756	55.72	UG/L	100
47) C340 Dichlorobenzene (p)	23.88	146.0	262878	56.01	UG/L	100
48) C350 Dichlorobenzene (o)	25.10	146.0	270378	54.50	UG/L	100
49) C250 Xylenes (total)	18.35	106.0	181374	50.10	UG/L	93

* Compound is ISTD

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2790 Date Analyzed: 10/08/91
 Instrument ID: V6 Time Analyzed: 0809
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	91500	7.23	442000	9.12	336000	16.30
UPPER LIMIT	183000		884000		672000	
LOWER LIMIT	45750		221000		168000	
EPA SAMPLE NO.						
01 SB-A-08-3	74900	7.33	377000	9.23	296000	16.44
02 VBLK03	84200	7.26	417000	9.14	314000	16.34

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2827 Date Analyzed: 10/09/91
 Instrument ID: V6 Time Analyzed: 1028
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	75500	7.33	407000	9.23	308000	16.44
UPPER LIMIT	151000		814000		616000	
LOWER LIMIT	37750		203500		154000	
EPA SAMPLE NO.						
01 10-4-QA1	57200	7.30	296000	9.19	238000	16.42
02 VBLK06	75100	7.29	403000	9.19	323000	16.44

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2866 Date Analyzed: 10/10/91
 Instrument ID: V6 Time Analyzed: 1103
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	76600	7.26	407000	9.15	313000	16.38
UPPER LIMIT	153200		814000		626000	
LOWER LIMIT	38300		203500		156500	
EPA SAMPLE NO.						
01 SB-B-12-3	94900	7.23	516000	9.12	411000	16.30
02 VBLK04	69700	7.27	393780	9.16	307000	0.27

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2909 Date Analyzed: 10/11/91
 Instrument ID: V6 Time Analyzed: 2151
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	66100	7.26	388000	9.15	316000	16.34
UPPER LIMIT	132200		776000		632000	
LOWER LIMIT	33050		194000		158000	
EPA SAMPLE NO.						
01 SB-B-12-3RE	95600	7.22	527000	9.10	412000	16.29
02 VBLK05	65200	7.28	402000	9.17	328000	16.40

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): B2979 Date Analyzed: 10/14/91
 Instrument ID: V2 Time Analyzed: 1334
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	101000	7.47	448000	9.35	322000	16.51
UPPER LIMIT	202000		896000		644000	
LOWER LIMIT	50500		224000		161000	
EPA SAMPLE NO.						
01 SB-B-13-3	189000	7.47	783000	9.36	532000	16.54
02 VBLK01	110000	7.48	477000	9.37	330000	16.56

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

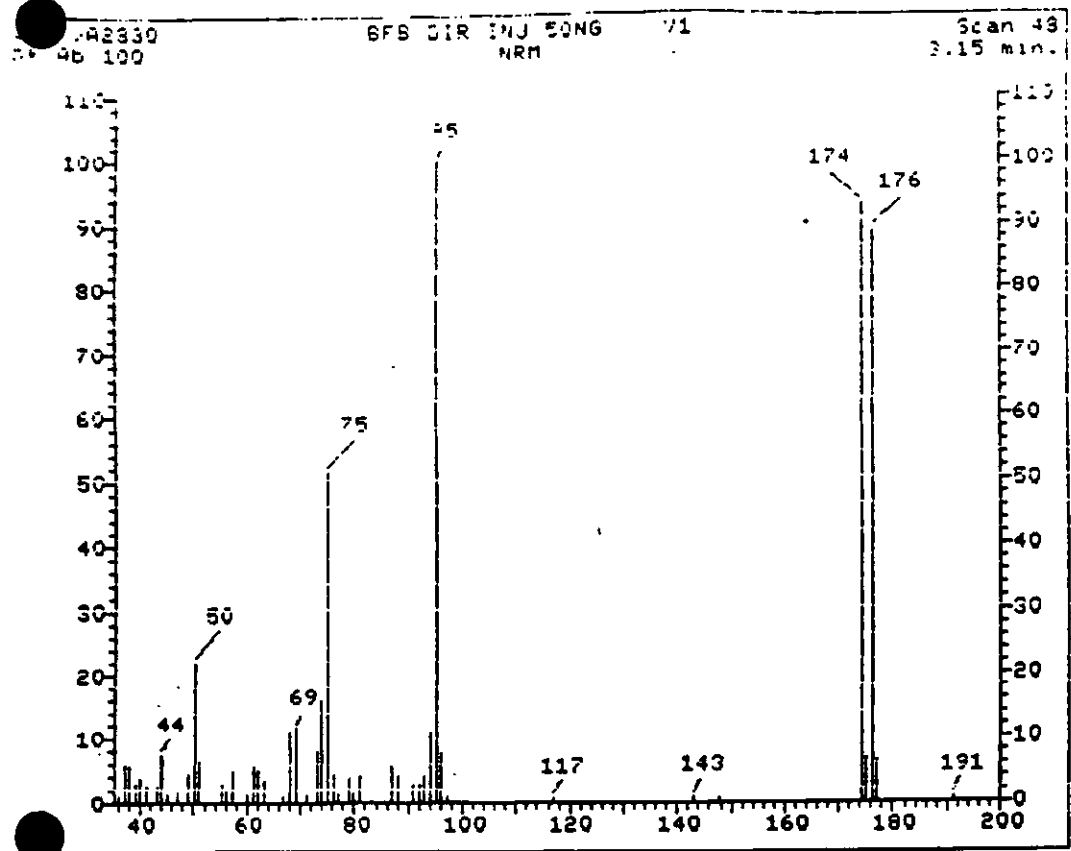
Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): A3626 Date Analyzed: 10/19/91
 Instrument ID: V1 Time Analyzed: 1128
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	59200	6.66	299000	8.32	233000	15.03
UPPER LIMIT	118400		598000		466000	
LOWER LIMIT	29600		149500		116500	
EPA SAMPLE NO.						
01 SB-B-17-4	77900	6.58	368000	8.22	304000	14.88
02 VBLK02	59200	6.56	287000	8.20	232000	14.85

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk



TUNUA

MS data file header from : >A2830

Sample: BFB DIR INJ 50NG Operator: MANAGER MS 8/29/91 10:10
 ISC : U1
 Sys. #: 1 MS model: 96 SW/HW rev.: IA ALS #: 0
 Method file: BFB1 Tuning file: MT7401 No. of extra records: 2
 Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	4.0	0.0	0.0	0.0	0.0

ANALYSIS LABORATORY

GC/MS PERFORMANCE STANDARDS

Bromofluorobenzene (BFB)

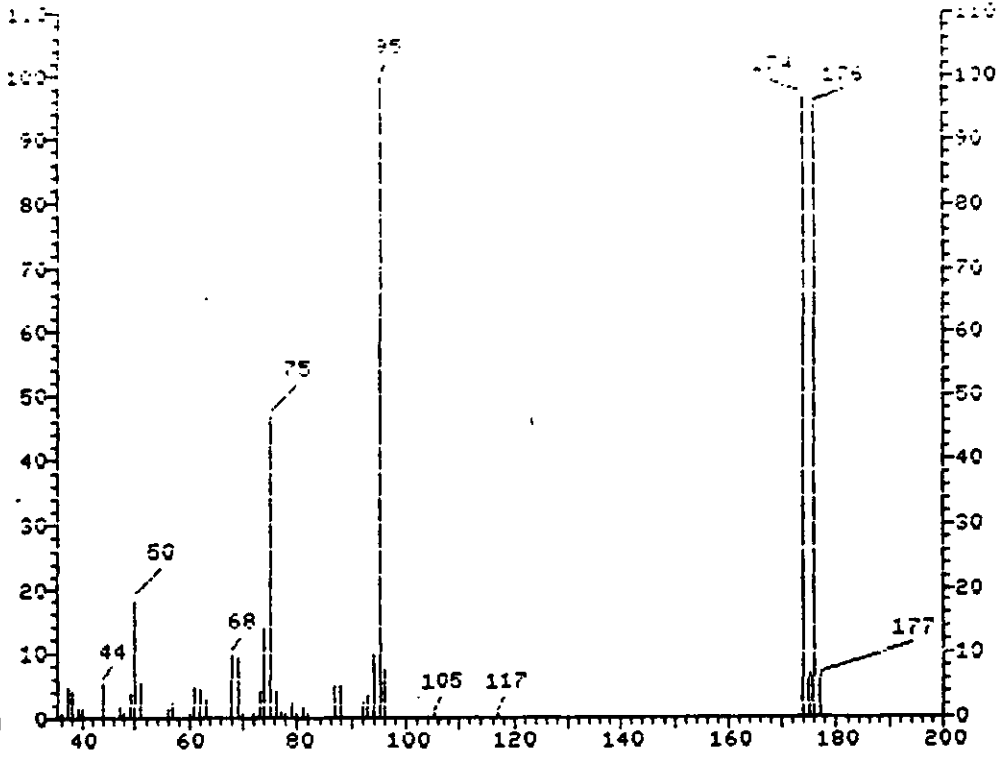
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.13	22.13	OK
75	30-60% of mass 95	51.54	51.54	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.79	7.79	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	92.95	92.95	OK
175	5-9% of mass 174	6.86	7.38	OK
176	95-101% of mass 174	88.81	95.55	OK
177	5-9% of mass 176	6.54	7.56	OK

Injection Date: 08/29/91
 Injection Time: 10:10
 Data File: >A2830
 Scan: 48
 Name: BFB DIR INJ 50NG
 Misc: U1

A2830 BFB DIR INJ 50NG U1
 48 NRM

File: >A2830 Scan #: 48 Retn. time: 3.15

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	.896	50.05	22.133	68.10	11.189	81.10	4.222	117.00	.756
37.10	6.211	51.15	6.362	69.10	11.759	87.10	5.792	143.05	.965
38.10	5.676	55.15	2.815	71.10	1.338	88.10	3.920	147.95	.791
38.95	2.722	56.05	2.187	73.10	8.200	91.05	2.815	174.10	92.952
40.05	3.873	57.15	5.199	74.10	16.155	92.05	2.640	175.00	6.862
40.95	2.233	60.05	1.233	75.10	51.535	93.05	4.164	176.10	88.811
43.05	2.245	61.15	5.629	76.10	4.257	94.05	11.258	177.10	6.536
44.05	7.525	62.05	5.071	77.10	1.338	95.15	100.000	191.15	.721
44.95	1.489	63.15	3.361	79.00	3.733	96.15	7.793	207.15	3.222
47.05	1.628	66.90	1.023	80.00	1.338	97.15	1.163	281.20	1.500
47.05	4.420								



MS data file header from : >B2949

Sample: BFB DIR INJ 50NG Operator: NORA MS 10/11/91 16:41
 Misc : U2
 Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0
 Method file: BFB2 Tuning file: MT7402 No. of extra records: 2
 Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

EMBLEM-BFPO Laboratory
 GC-MS PERFORMANCE STANDARD
 Bromofluorobenzene (BFB)

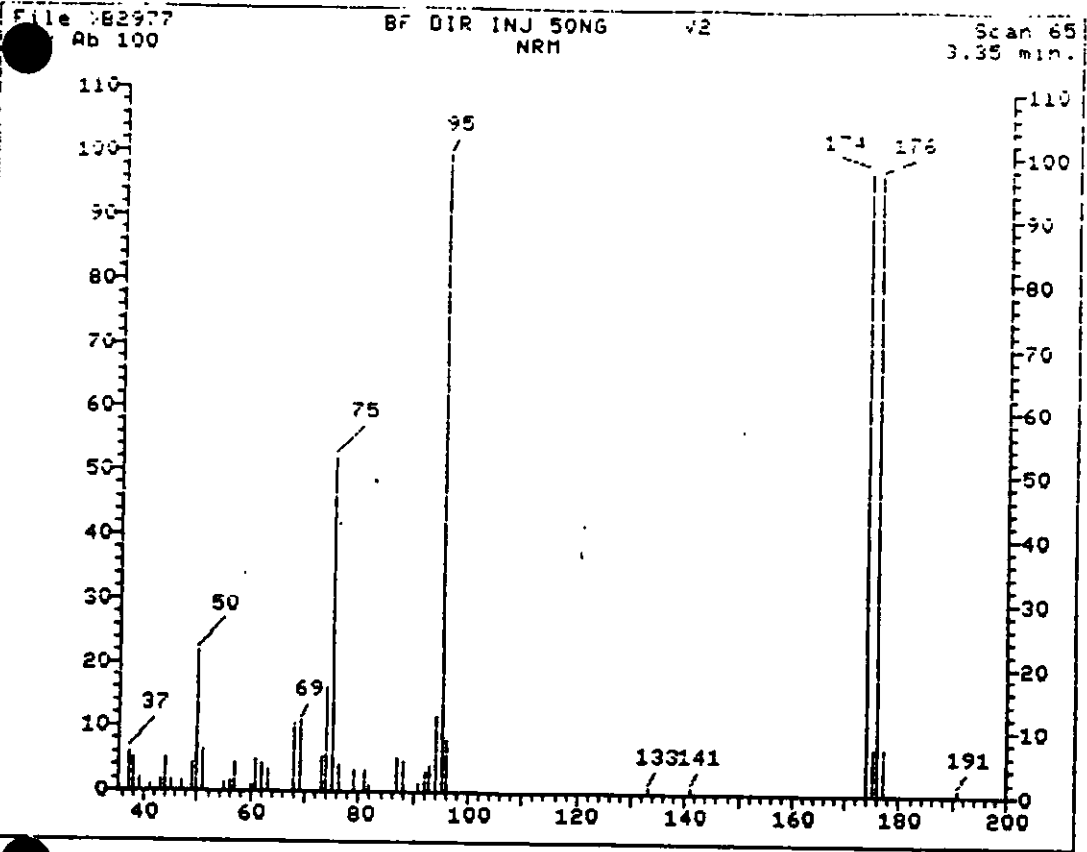
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	17-40% of mass 95	18.29	18.29	OK
75	30-60% of mass 95	46.81	46.81	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.45	7.45	OK
173	Less than 2% of mass 174	.48	.50	OK
174	Greater than 50% of mass 95	97.06	97.06	OK
175	5-9% of mass 174	6.82	7.03	OK
176	95-101% of mass 174	95.47	98.37	OK
177	5-9% of mass 176	6.41	6.71	OK

Injection Date: 10/11/91
 Injection Time: 16:41
 Data File: >B2949
 Scan: 62
 Name: BFB DIR INJ 50NG
 Misc: U2

>B2949 62 BFB DIR INJ 50NG U2
 NRM

File: >B2949 Scan #: 62 Retn. time: 3.32

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	.863	51.10	5.403	72.00	.585	81.00	2.495	104.00	.437
37.05	4.880	56.00	1.245	73.00	3.992	82.00	.554	105.10	.579
38.05	4.159	57.10	2.255	74.00	14.029	86.95	5.101	116.95	.579
39.05	1.472	59.95	.739	75.10	46.812	87.95	4.935	173.00	.481
40.05	1.429	61.05	4.756	76.10	4.005	92.05	2.434	174.00	97.055
44.05	5.539	62.05	4.276	77.10	.900	93.05	3.419	175.00	6.820
47.00	1.756	63.05	2.618	78.00	.598	94.05	10.006	176.00	95.472
48.00	.647	68.05	9.975	79.00	2.545	95.05	100.000	177.00	6.407
49.00	3.881	69.05	9.291	80.00	.696	96.10	7.455	207.20	2.199
50.00	18.286	70.05	.702						



MS data file header from : >B2977

Sample: BF DIR INJ 50NG Operator: NORA MS 10/14/91 12:08
 Misc : v2
 Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0
 Method file: BFB2 Tuning file: MT7402 No. of extra records: 2
 Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

ENSECU-ERCU Laboratory

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	21.81	21.81	Ok
75	30-60% of mass 95	52.12	52.12	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.20	8.20	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	97.76	97.76	Ok
175	5-9% of mass 174	7.23	7.39	Ok
176	95-101% of mass 174	97.34	99.57	Ok
177	5-9% of mass 176	7.19	7.39	Ok

Injection Date: 10/14/91

Injection Time: 12:08

Data File: >B2977

Scan: 65

Name:BF DIR INJ 50NG

Misc:U2

>B2977 BF DIR INJ 50NG U2
65 NRM

File: >B2977 Scan #: 65 Retn. time: 3.35

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	6.124	51.00	6.264	69.05	11.063	88.05	4.648	174.00	97.757
38.05	5.195	55.00	1.313	73.00	5.334	91.05	1.464	175.00	7.228
39.05	2.162	56.10	1.883	74.00	16.049	92.05	3.010	176.00	97.339
41.05	1.023	57.10	4.311	75.00	52.121	93.05	3.974	177.00	7.193
43.05	1.569	60.05	.895	76.10	4.009	94.05	11.807	191.05	.918
44.05	5.067	61.05	4.985	79.00	3.231	95.15	100.000	207.10	7.298
45.00	1.836	62.05	4.335	81.00	3.475	96.10	8.205	208.20	1.569
47.00	1.662	63.05	3.417	82.00	.930	133.10	.930	209.10	1.081
49.00	4.253	68.05	10.308	87.05	5.253	141.05	.906	281.10	.872
50.00	21.813								

000233

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO LABORATORY Contract: _____
 Lab Code: ENSECO Case No.: _____ GAS No.: _____ SUG No.: _____
 Lab File ID: >B2977 BFB Injection Date: 10/14/91
 Instrument ID: _____ BFB Injection Time: 12:08
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) _____

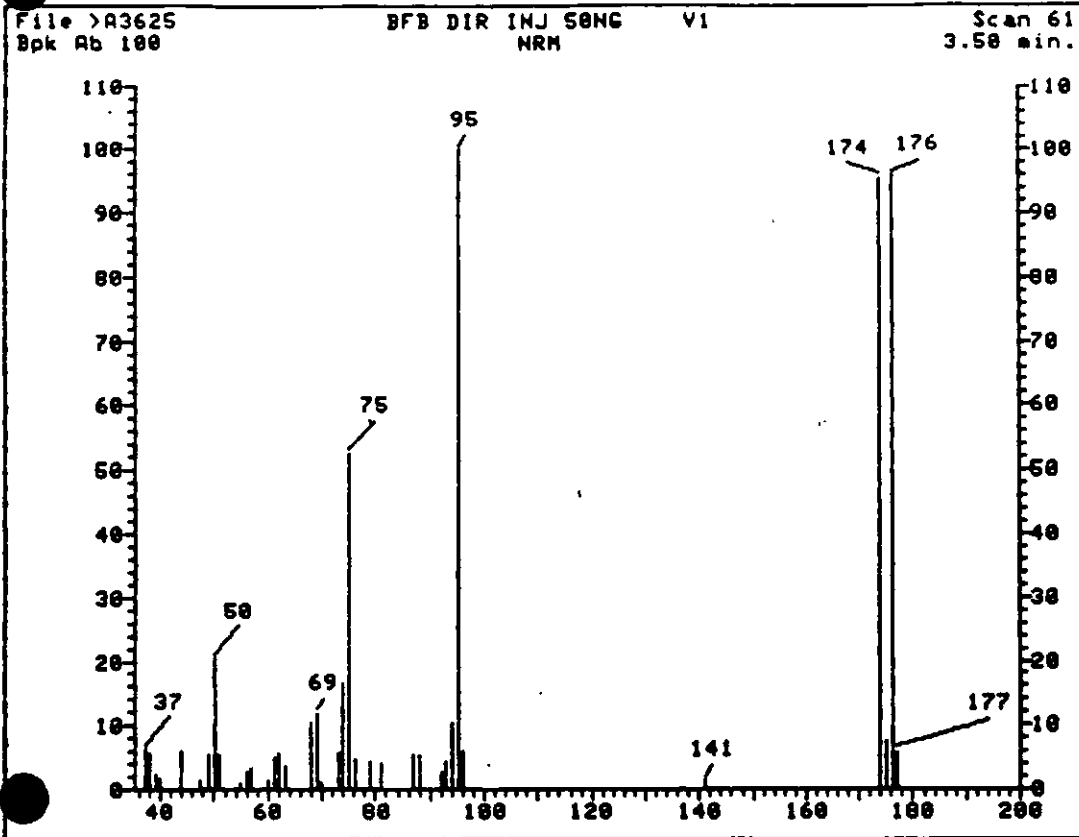
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	21.8
75	30.0 - 60.0% OF MASS 95	52.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	97.8
175	5.0 - 9.0% of mass 174	7.2(7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	97.3(99.6)1
177	5.0 - 9.0% of mass 176	7.2(7.4)2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BFB_50ng			
02	_VSTD050	_50ppb_STD		
03	_VBLK	_Proc_Blank		
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				



MS data file header from : >A3625

Sample: BFB DIR INJ 50NG Operator: ALANA MS 10/19/91 10:46
 Misc : U1
 Sys. #: 1 MS model: 98 SW/HW rev.: IA ALS #: 0
 Method file: BFB1 Tuning file: MT7401 No. of extra records: 2
 Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	4.0	0.0	0.0	0.0	0.0

ENSECO-ERCO Laboratory
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

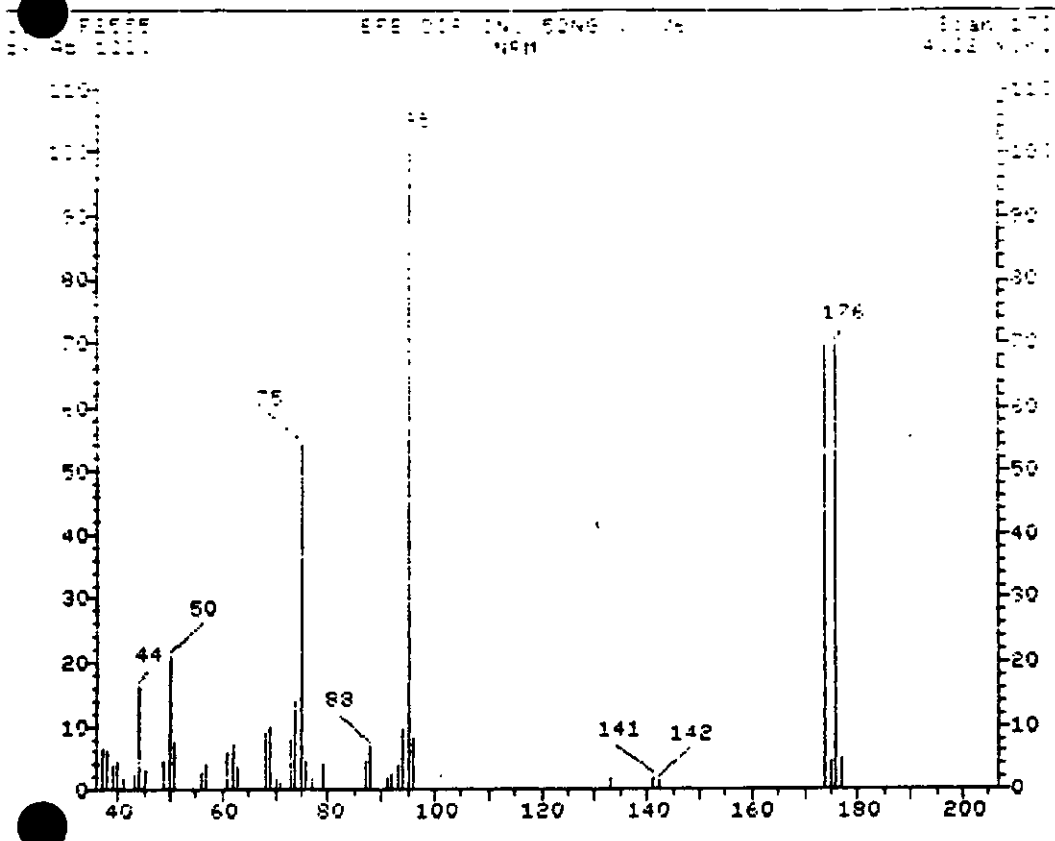
m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	20.51	20.51	Ok
75	30-60% of mass 95	52.54	52.54	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.10	6.10	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	95.50	95.50	Ok
175	5-9% of mass 174	7.33	7.68	Ok
176	95-101% of mass 174	95.97	100.48	Ok
177	5-9% of mass 176	5.79	6.03	Ok

Injection Date: 10/19/91
Injection Time: 10:46
Data File: >A3625
Scan: 61
Name: BFB DIR INJ 50NG
Misc: U1

>A3625 BFB DIR INJ 50NG U1
61 NRM

File: >A3625 Scan #: 61 Retn. time: 3.50

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	6.270	51.15	5.248	68.10	10.515	81.00	4.090	96.05	6.097
38.10	5.595	54.95	1.080	69.10	11.789	87.10	5.402	140.95	1.273
39.05	2.392	56.05	2.566	70.00	.965	88.10	5.248	174.00	95.505
39.95	1.872	57.05	3.473	73.10	5.615	92.05	2.624	175.10	7.332
43.95	6.174	60.05	1.254	74.10	16.380	93.05	4.245	176.10	95.968
47.35	1.466	61.15	5.171	75.10	52.537	94.05	10.573	177.00	5.788
49.05	5.518	62.15	5.827	76.10	4.708	95.15	100.000	207.05	2.064
50.05	20.509	63.05	3.820	79.00	4.360				



TOX UOA
 cid SOW

1S data file header from : >F2555::D4

Sample: BFB DIR INJ 50NG . Operator: KERYLYNN SUPER GRP. 9/22/91 9:15
 Misc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

09/22/91 09:15
 20 MS PERFORMANCE STANDARD
 Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
98	15-40% of mass 95	20.98	20.98	Ok
73	30-60% of mass 95	54.14	54.14	Ok
95	Base peak. 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.18	8.18	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	69.66	69.66	Ok
175	5-9% of mass 174	4.52	6.49	Ok
176	95-101% of mass 174	69.74	100.12	Ok
177	5-9% of mass 176	4.88	7.00	Ok

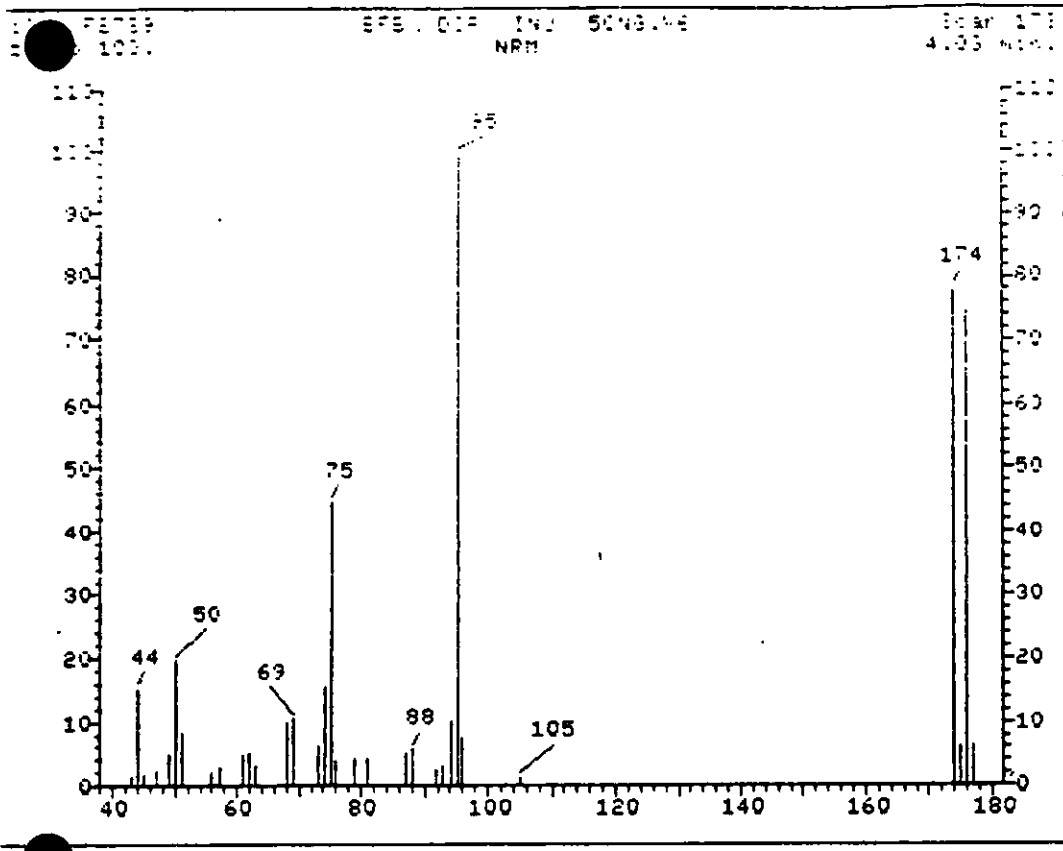
Injection Date: 09/22/91
 Injection Time: 09:15
 Data File: >F2555
 Scan: 173
 Name: BFB DIR INJ 50NG .
 Misc: U6

F2555 BFB DIR INJ 50NG . U6
 173 NRM

File: >F2555 Scan #: 173 Retn. time: 4.02

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	2.000	48.95	4.589	69.05	10.015	86.95	4.442	132.95	1.705
37.05	6.655	50.05	20.980	70.05	1.836	87.95	6.819	141.05	1.869
38.05	6.032	50.95	7.392	71.05	1.065	90.95	1.885	142.15	1.426
38.95	3.819	56.05	2.950	72.95	7.753	91.95	2.344	173.95	69.661
39.95	4.557	56.95	4.294	73.95	14.162	93.05	3.868	174.95	4.524
40.95	1.836	60.95	5.983	75.05	54.139	94.05	9.523	175.95	69.743
42.95	2.426	61.95	7.114	75.95	4.983	95.05	100.000	176.95	4.884
43.95	16.260	62.95	3.557	77.05	1.688	95.95	8.179	207.00	3.524
44.95	3.180	68.05	8.900	78.95	4.278				

000238



TUNDOA
old SOW

MS data file header from : >F2789::D6

Sample: BFB DIR INJ 50NG. Operator: LIZ SUPER GRP. 10/08/91 7:34
 Disc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

EN2500-5-1 11-09-70

GC MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	19.57	19.57	Ok
75	30-60% of mass 95	44.84	44.84	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.49	7.49	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	78.09	78.09	Ok
175	5-9% of mass 174	6.07	7.77	Ok
176	95-101% of mass 174	74.34	95.19	Ok
177	5-9% of mass 176	6.09	8.20	Ok

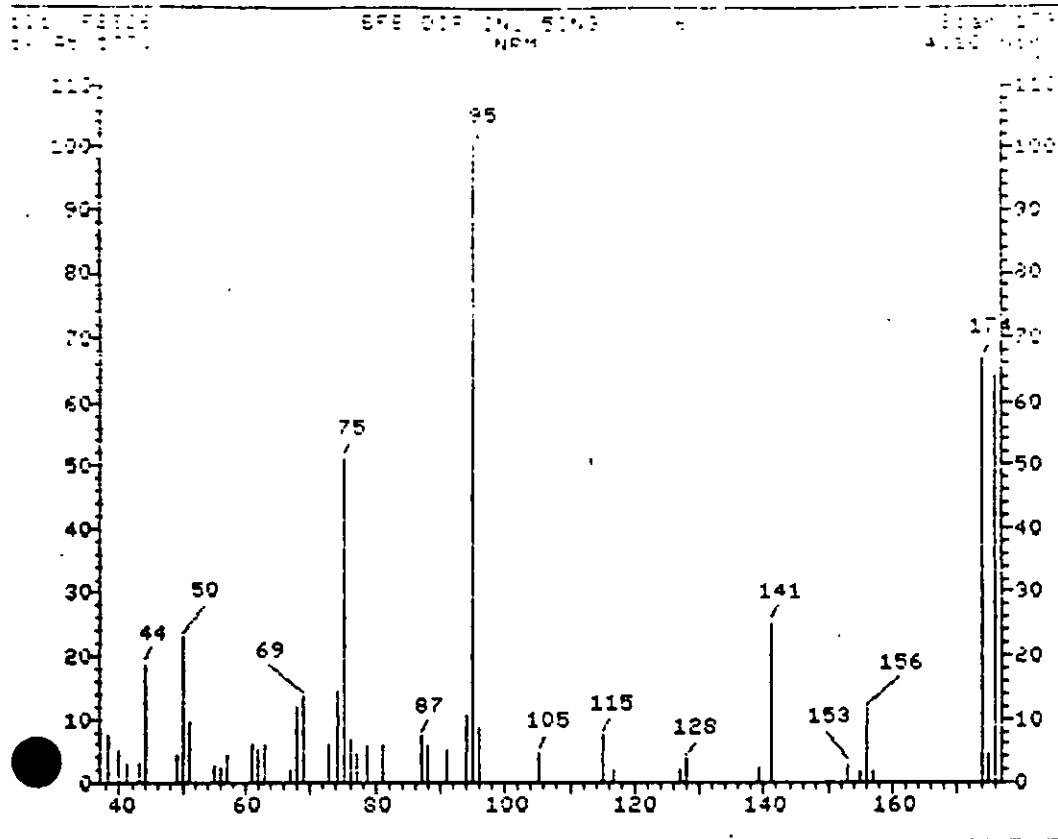
Injection Date: 10/08/91
Injection Time: 07:34
Data File: >F2789
Scan: 173
Name: BFB DIR INJ 50NG.
Misc: U6

>F2789 BFB DIR INJ 50NG.U6
173 NRM

File: >F2789 Scan #: 173 Retn. time: 4.03

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.95	5.504	50.95	8.337	69.05	10.461	86.95	5.130	104.95	1.189
43.05	1.576	55.85	2.044	73.05	6.293	88.05	5.691	173.95	78.090
43.95	15.431	57.05	2.953	74.05	15.792	91.95	2.445	174.95	6.065
44.95	1.670	61.05	4.823	75.05	44.836	92.95	3.206	175.95	74.335
46.95	2.298	61.95	5.037	75.95	3.874	94.05	10.180	176.95	6.092
49.05	4.836	63.05	2.979	78.95	4.235	95.05	100.000	181.85	1.283
49.95	19.572	67.95	9.980	80.85	4.289	96.05	7.495		

000240



MS data file header from : >F2826::D6

Sample: BFB DIR INJ 50NG Operator: LIZ SUPER GRP. 10/09/91 9:21
 Misc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

000241

ENSECO-EPCO LABORATORY
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	22.90	22.90	Ok
75	30-60% of mass 95	51.14	51.14	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.42	8.42	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	66.51	66.51	Ok
175	5-9% of mass 174	4.36	6.56	Ok
176	95-101% of mass 174	64.00	96.23	Ok
177	5-9% of mass 176	4.46	6.97	Ok

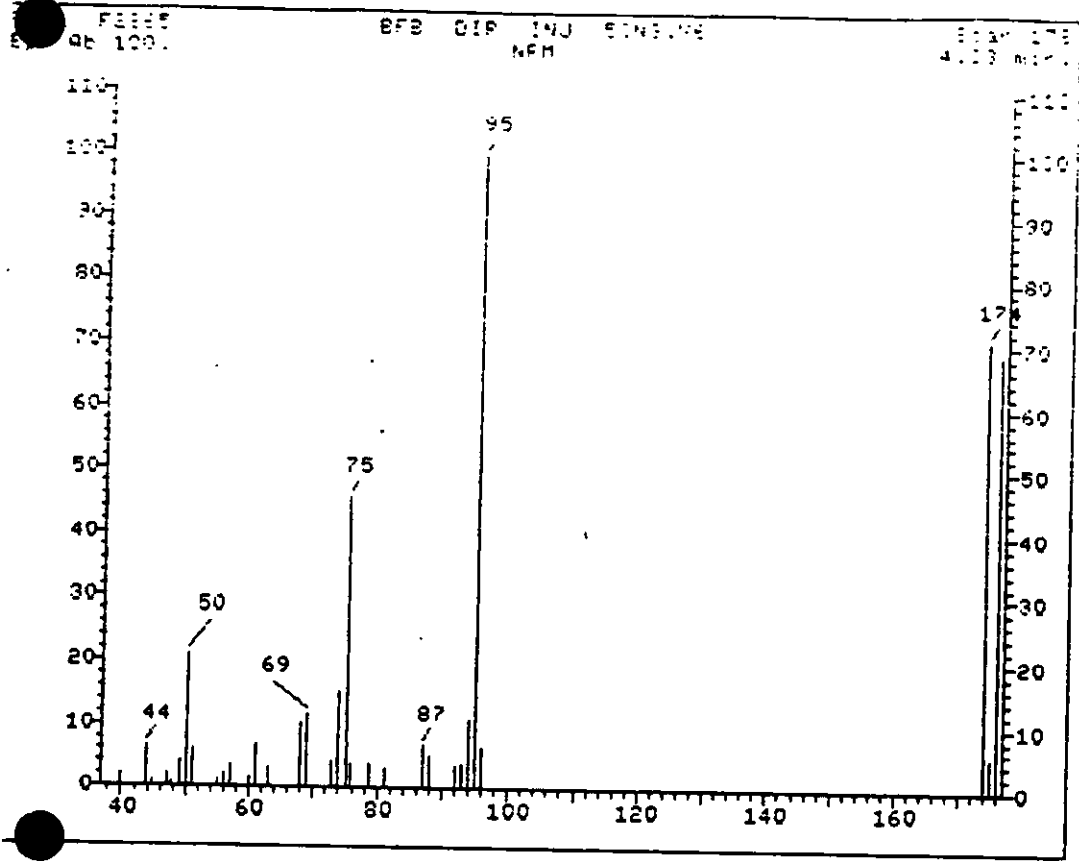
Injection Date: 10/09/91
Injection Time: 09:21
Data File: >F2826
Scan: 179
Name: BFB DIR INJ 50NG
Misc: U6

>F2826 BFB DIR INJ 50NG U6
179 NRM

File: >F2826 Scan #: 179 Retn. time: 4.10

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	9.432	56.05	2.333	74.05	14.528	94.05	10.421	141.05	25.152
38.05	7.632	57.05	4.462	75.05	51.141	95.05	100.000	153.05	2.916
39.95	5.147	61.05	6.034	76.05	6.871	96.05	8.418	155.05	1.876
41.05	3.017	62.05	5.046	77.05	4.767	105.05	4.691	156.15	11.511
43.05	2.992	62.95	6.085	78.95	5.730	115.05	7.404	157.15	1.927
45.05	18.712	67.05	2.206	80.95	6.034	116.85	2.028	173.95	66.506
48.95	4.513	68.05	11.993	86.95	7.353	127.05	2.155	174.95	4.361
50.05	22.896	69.05	13.590	87.95	5.705	128.05	3.753	175.95	63.996
51.05	9.559	72.95	6.034	91.05	5.071	139.15	2.333	176.95	4.462
54.95	2.713								

000242



1S data file header from : >F2865::D6

Sample: BFB DIR INJ 50NG. Operator: KERYLYNN SUPER GRP. 10/10/91 10:33

Misc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

ENSECO-EPCC LABORATORY

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

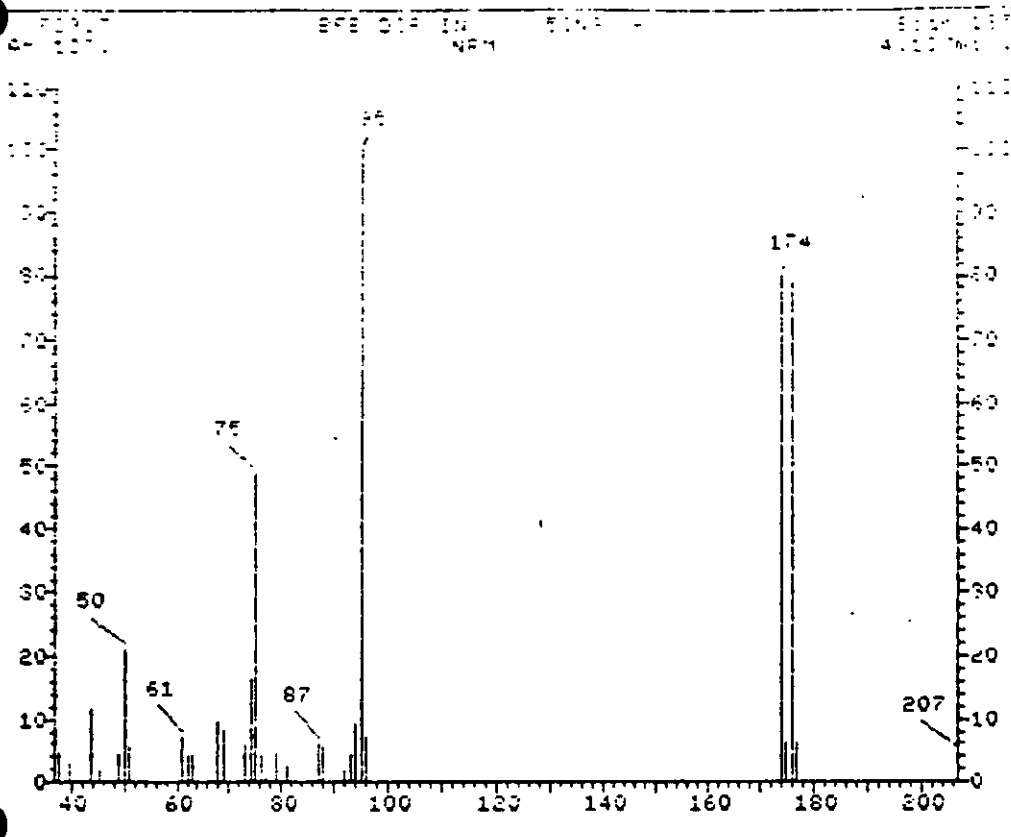
m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	21.12	21.12	Ok
75	30-60% of mass 95	45.65	45.65	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.54	6.54	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	71.14	71.14	Ok
175	5-9% of mass 174	7.52	7.52	Ok
176	95-101% of mass 174	68.53	96.33	Ok
177	5-9% of mass 176	4.40	6.43	Ok

Injection Date: 10/10/91
 Injection Time: 10:33
 Data File: >F2865
 Scan: 178
 Name: BFB DIR INJ 50NG.
 Misc: U6

>F2865 BFB DIR INJ 50NG.U6
 178 NRM

File: >F2865 Scan #: 178 Retn. time: 4.08

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	5.249	50.05	21.123	62.95	3.241	78.95	3.686	95.05	100.000
39.95	2.271	50.95	6.242	67.95	10.350	80.95	2.978	95.95	6.539
43.95	6.585	55.05	1.016	69.05	11.731	86.95	6.950	173.95	71.140
44.95	1.107	56.05	2.043	72.95	4.268	87.95	5.169	174.95	5.352
47.05	2.157	57.05	3.446	73.95	15.394	91.95	3.366	175.95	68.527
47.75	.719	59.95	1.335	75.05	45.646	93.05	3.869	176.95	4.405
48.95	4.291	61.05	6.915	75.95	3.948	94.05	10.830		



MS data file header from : >F2907::D6

Sample: BFB DIR INJ 50NG Operator: KERYLYNN SUPER GRP. 10/11/91 20:53
 Misc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

000245

ENSECO-5000 LEGALITE

30 MS SEARCHED 5.170E-1

GrandiLutrobenzene 5000

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
99	15-40% of mass 95	21.18	21.18	OK
75	70-60% of mass 95	48.74	48.74	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.16	7.16	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	80.14	80.14	OK
175	5-9% of mass 174	6.28	7.84	OK
176	95-101% of mass 174	79.13	98.75	OK
177	5-9% of mass 176	6.26	7.91	OK

Injection Date: 10/11/91

Injection Time: 20:53

Data File: >F2907

Scan: 185

Name: BFB DIR INJ

50NG

Misc: U6

F2907 185 BFB DIR INJ 50NG U6 NRM

File: >F2907 Scan #: 185 Retn. time: 4.10

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	5.602	51.05	5.356	74.05	16.294	86.95	6.197	95.95	7.162
37.95	5.110	60.95	7.223	75.05	48.738	87.95	5.500	173.95	80.135
39.95	3.222	62.05	4.145	76.05	4.022	92.05	2.134	174.95	6.279
43.95	11.738	63.05	4.002	77.05	1.457	93.05	4.351	175.95	79.130
45.25	2.093	67.95	9.522	78.95	4.597	94.05	9.378	176.95	6.259
49.05	4.515	68.95	8.208	80.95	2.524	95.05	100.000	207.00	4.638
50.05	21.178	73.05	6.033						

000246

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981

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

% Moisture: not dec. 0 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	620	J
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	610	J
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
110-75-8	2-Chloroethylvinylether	1200	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	360	J
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK01
Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/14/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

3) 10/14/91
 N/C 10/14/91
 101491
 101491 J2A
 CIP
 R 101491 J2A

Produced by:
 Reviewed by:

Date: 10/14/91
 Date: 10/13/91

Data File: >B2981
 Page: 1

Bo-81
 MeCl₂
 2-BUT
 Toluene

Enseco GC/MS
 Target Compound Data Summary Sheet

Sample: MEQH UBLK⁰¹ 100UL/5ML-01
 Misc : U2 CH05 5ULIS
 Injected : 10/14/91 15:33
 Analyst: ALANA
 ID File: VOAID2
 Quant list threshold: 1.00

Units: UG/KG
 Run Factor: 125.000
 Surrogate vol: .500

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	25.00	26.25	105	70 121
CS05 D8-Toluene	25.00	25.06	100	81 117
CS10 Bromofluorobenzene (BFB)	25.00	25.36	101	74 121

Target Compounds: VOAID2

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
265	2.999	294.4	C035 Acetone
301	1.123	140.4	C035 Acetone
	BDL		C040 Carbon Disulfide
327	4.993	624.1	C030 Methylene Chloride
	BDL		C053 Trans-1,2-Dichloroethene
	BDL		C055 cis-1,2-Dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
473	4.872	609.8	C110 2-Butanone
	BDL		C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C179 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropen
	BDL		C172 Trans-1,3-Dichloropropen
	BDL		C160 1,1,2-Trichloroethane
	BDL		C155 Dibromochloromethane

Scan #	Concentration		Compound
	Quant list UG/L	Sample UG/KG	
961	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-Pentanone
	2.901	362.6	C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylene (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethan
	BDL		C335 Dichlorobenzene (m)
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylene (Total)

Diagnostic Quant Report

Date File: >B2981::D6 Injected at: 15:33 10/14/91
 Quant'd : 16:03 10/14/91
 ID File : UOAIID2::\$\$ Calibrated : 14:19 10/14/91

		- R.T. Info -						
Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *CI01	Bromochloromethane	7.47	7.48	.01	128.0	109638	1.0000	50.00
2) C010	Chloromethane	3.10	0.00	--	50.0	0	.3418	0.00
3) C020	Vinyl Chloride	3.24	0.00	--	62.0	0	.7562	0.00
4) C015	Bromomethane	3.65	0.00	--	94.0	0	1.0170	0.00
5) C025	Chloroethane	3.84	0.00	--	64.0	0	.7299	0.00
6)D C045	1,1-Dichloroethene	4.72	4.62	.10	96.0	1554	1.1416	.62
7)D C035	Acetone	4.70	4.69	.01	43.0	2192	.4244	2.36
7)D C035	Acetone	4.70	5.11	.41	43.0	1045	.4244	1.12
8)D C040	Carbon Disulfide	4.95	4.96	.00	76.0	2033	4.8412	.19
9) C030	Methylene Chloride	5.23	5.41	.18	84.0	28869	2.6370	4.99
10) C053	Trans-1,2-Dichloroe	5.61	0.00	--	96.0	0	1.9760	0.00
11) C055	cis-1,2-Dichloroeth	7.10	0.00	--	96.0	0	2.0042	0.00
12) C050	1,1-Dichloroethane	6.21	0.00	--	63.0	0	3.6934	0.00
13)D C060	Chloroform	7.62	7.61	.01	83.0	1684	3.5395	.22
14)D C065	1,2-Dichloroethane	8.63	8.62	.01	62.0	550	2.3048	.11
15) C110	2-Butanone	7.13	7.12	.01	43.0	11550	1.0812	4.87
16) CS15	D4-1,2-Dichloroetha	8.49	8.50	.01	65.0	190264	1.6528	52.50
17) *CI10	1,4-Difluorobenzene	9.35	9.37	.02	114.0	477278	1.0000	50.00
18) C125	Vinyl Acetate	6.31	0.00	--	43.0	0	.9271	0.00
19)D C115	1,1,1-Trichloroetha	7.96	7.94	.02	97.0	2816	.4790	.62
20) C120	Carbon Tetrachlorid	8.25	0.00	--	117.0	0	.4557	0.00
21)D C165	Benzene	8.62	8.61	.01	78.0	3900	1.2475	.33
22)D C150	Trichloroethene	9.89	9.88	.01	130.0	759	.4109	.19
23) C140	1,2-Dichloropropane	10.34	0.00	--	63.0	0	.4179	0.00
24) C130	Bromodichloromethan	10.96	0.00	--	83.0	0	.5693	0.00
25) C175	2-Chloroethylvinyle	11.70	0.00	--	63.0	0	.2011	0.00
26) C143	Cis-1,3-Dichloropro	12.02	0.00	--	75.0	0	.5777	0.00
27) C172	Trans-1,3-Dichlorop	13.41	0.00	--	75.0	0	.4328	0.00
28) C160	1,1,2-Trichloroetha	13.87	0.00	--	97.0	0	.2958	0.00
29) C155	Dibromochloromethan	14.90	0.00	--	129.0	0	.4224	0.00
30) C180	Bromoform	19.11	0.00	--	173.0	0	.3017	0.00
31) *CI20	D5-Chlorobenzene	16.51	16.56	.05	117.0	329712	1.0000	50.00
32) CS05	D8-Toluene	12.67	12.66	.01	98.0	440987	1.3341	50.13
33) C205	4-Methyl-2-Pentanon	12.44	0.00	--	43.0	0	.5703	0.00
34) C230	Toluene	12.84	12.83	.01	92.0	16599	.8678	2.90
35) C210	2-Hexanone	14.65	0.00	--	43.0	0	.3123	0.00
36) C220	Tetrachloroethene	14.26	0.00	--	164.0	0	.4102	0.00
37) C235	Chlorobenzene	16.64	0.00	--	112.0	0	1.0211	0.00
38) C240	Ethylbenzene	17.05	0.00	--	106.0	0	.4759	0.00
39) CXXX	Xylene (p)	17.43	0.00	--	106.0	0	.5961	0.00
40)D CXXX	Xylenes (o)	18.61	18.60	.01	106.0	687	.6235	.17
41)D C245	Styrene	18.67	18.67	.00	104.0	1055	.9877	.16
42) C225	1,1,2,2-Tetrachloro	20.85	0.00	--	83.0	0	.8050	0.00
43) CS10	Bromofluorobenzene	20.25	20.24	.02	95.0	204401	.6112	50.72
44)D C335	Dichlorobenzene (m	23.88	23.85	.03	146.0	916	.9182	.15
44)D C335	Dichlorobenzene (m	23.88	24.16	.28	146.0	1070	.9182	.18
45)D C340	Dichlorobenzene (p	24.20	23.85	.34	146.0	916	.9182	.15
45)D C340	Dichlorobenzene (p	24.20	24.16	.04	146.0	1070	.9182	.17
46)D C350	Dichlorobenzene (o	25.43	25.40	.04	146.0	1108	.8753	.17

000251

Internal Standard Comparison

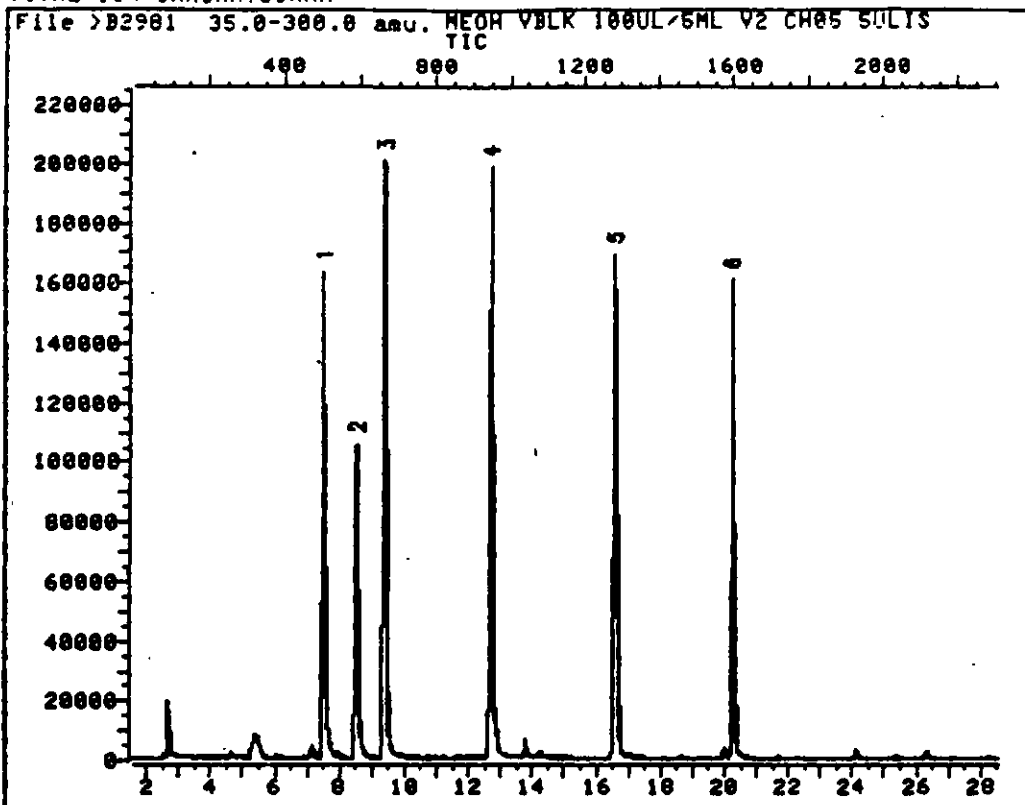
Sample: >B2981 Date injected: 10/14/91 Standard: >B2979

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	109638	100554	109.0
CI10 1,4-Difluorobenzene	477278	448145	106.5
CI20 05-Chlorobenzene	329712	321576	102.5

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >B2981::D6

Quant Output File: ^B2981::QT

Name: MEOH VBLK 100UL/5ML -01

Misc: V2 CH05 5ULYS

Id File: UOAIID2::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO

Last Calibration: 911014 14:19

Operator ID: ALANA

Quant Time: 911014 16:03

Injected at: 911014 15:33

QUANT REPORT

Operator ID: ALANA
 Output File: ^B2981::QT
 Data File: >B2981::D6
 Name: MEOH VBLK 100UL/5ML - 0\
 Misc: V2 CH05 5ULIS

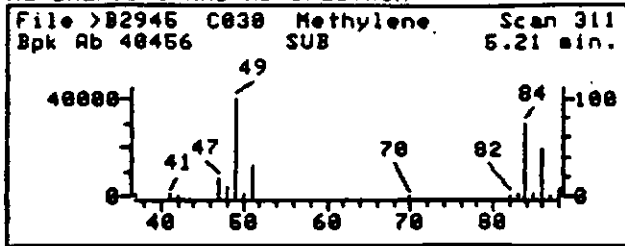
Quant Rev: 6 Quant Time: 911014 16:03
 Injected at: 911014 15:33
 Dilution Factor: 1.00000

ID File: VOAID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 911014 14:19

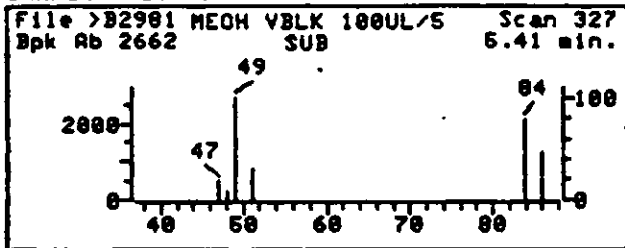
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.48	128.0	109638	50.00	UG/L	81
9)	C030 Methylene Chloride	5.41	84.0	28869M	4.99	UG/L ^{10/491}	81
15)	C110 2-Butanone	7.12	43.0	11550	4.87	UG/L	97
16)	CS15 D4-1,2-Dichloroethane	8.50	65.0	190264	52.50	UG/L	85
17)	*CI10 1,4-Difluorobenzene	9.37	114.0	477278	50.00	UG/L	100
31)	*CI20 D5-Chlorobenzene	16.56	117.0	329712	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0	440987	50.13	UG/L	89
34)	C230 Toluene	12.83	92.0	16599	2.90	UG/L	96
43)	CS10 Bromofluorobenzene (BFB)	20.24	95.0	204401	50.72	UG/L	86

Compound is ISTD

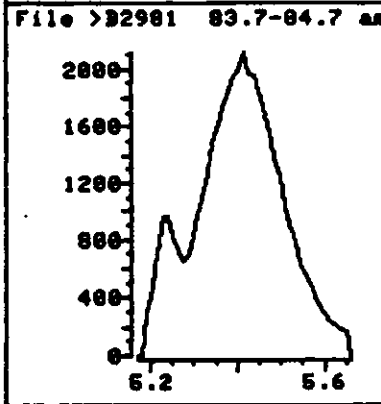
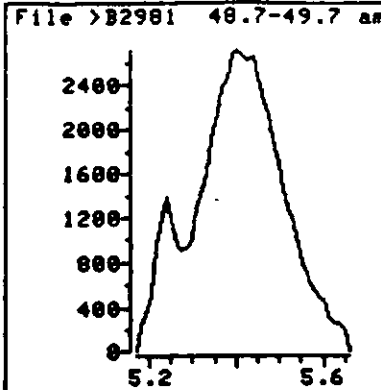
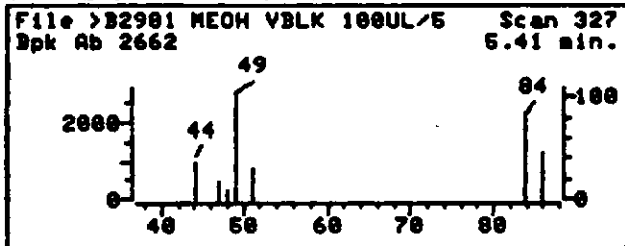
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



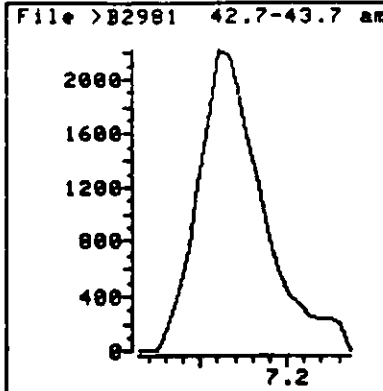
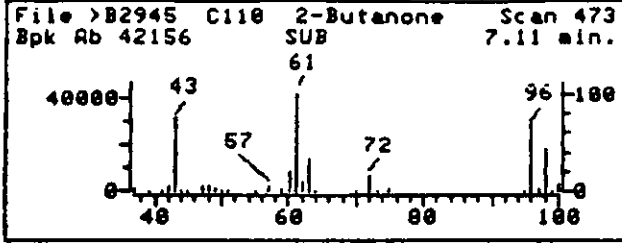
Data File: >B2981::D6
Name: MEOH VBLK 100UL/5ML -C
Misc: U2 CH05 5ULIS
Quant Time: 911014 16:03
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

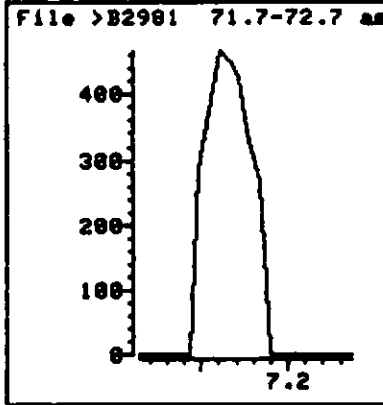
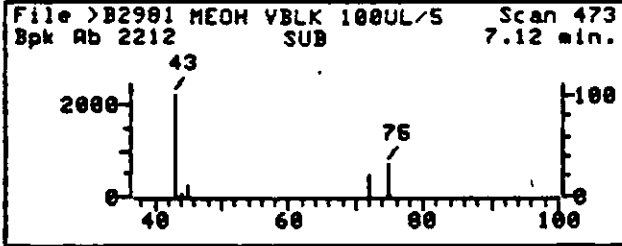
Quant ID File: UOAIID2::\$\$
Last Calibration: 911014 14:19

Compound No: 9
Compound Name: C030 Methylene Chloride
Scan Number: 327
Retention Time: 5.41 min.
Quant Ion: 84.0
Area: 200091
Concentration: 4.99 UG/L
q-value: 83

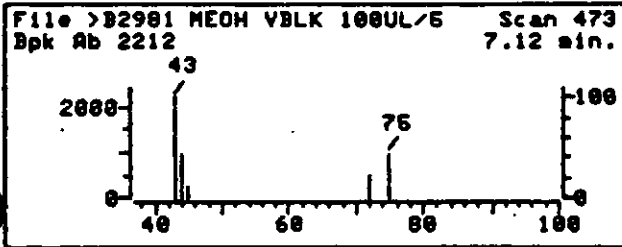
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



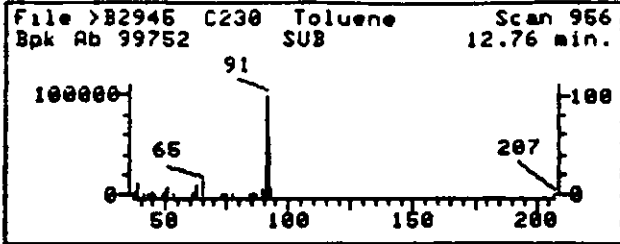
Data File: >B2981::D6
Name: MEOH VBLK 100UL/5ML - 01
Misc: U2 CH05 5ULIS
Quant Time: 911014 16:03
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

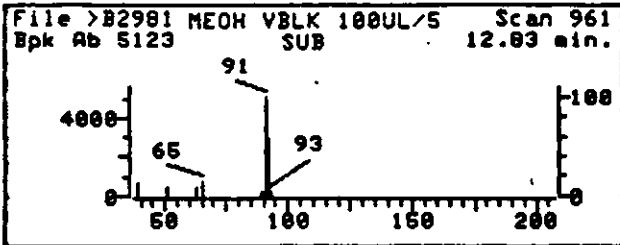
Quant ID File: VOA102::88
Last Calibration: 911014 14:19

Compound No: 15
Compound Name: C110 2-Butanone
Scan Number: 473
Retention Time: 7.12 min.
Quant Ion: 43.0
Area: 11558
Concentration: 4.87 UG/L
q-value: 97

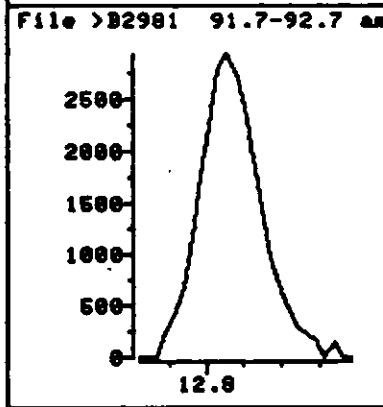
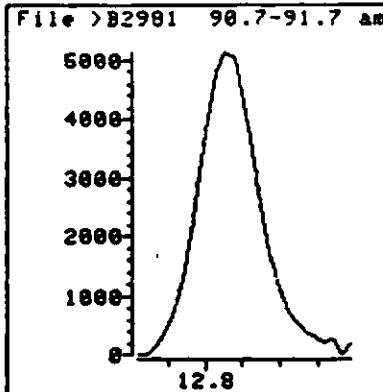
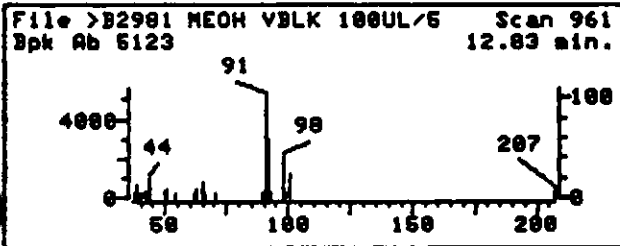
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2981::D6
Name: MEOH UBLK 100UL/5ML -01
Misc: U2 CH05 5ULIS
Quant Time: 911014 16:03
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

Quant ID File: UOAIID2::\$\$
Last Calibration: 911014 14:19

Compound No: 34
Compound Name: C230 Toluene
Scan Number: 961
Retention Time: 12.83 min.
Quant Ion: 92.0
Area: 16599
Concentration: 2.90 UG/L
q-value: 96

NO W/KS

Data Reduced by : ~~AK~~ Date: 10/4/91 Data File: >B2981
Data Reviewed by : ~~AK~~ Date: 10/12/91

Ensaco TIC Report (page 1)

Sample: MEOH UBLK 100UL/5ML 01 Run Factor: 125.
Conditions: U2 CH05 5ULIS Analyst: ALANA

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3627

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

% Moisture: not dec. 0 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	620	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	530	J
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
110-75-8	2-Chloroethylvinylether	1200	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	130	J
108-88-3	Toluene	130	J
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO

Contract: _____

Lab Code: EERCO

Case No.: 10135

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: BLANK02

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: A3627

Level: (low/med) MED

Date Received: _____

* Moisture: not dec. 0

Date Analyzed: 10/19/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

• = Compounds with internal standards
 * = Compounds identified

8240-5

L-070291-CIF
 R-101991-VIA

7A332

Sample ID: 10/20/91
 Date: 10/20/91

Toluene

1,1,2,2-Tetrachloroethane
 (M)-Dichlorobenzene

Method: GC/MS - -02

Injection Volume: 1.0 µL

Injection Temperature: 200°C

Analyst: ALPHE

Sample Name: Toluene

Quant List Threshold: 1.00

Injection Volume

Run Factor: 1.0000

Surrogate Spike

Surrogate spike recoveries

Compound	Surrogate Spiked	Amount (µg)	Measured	% Recovery	QL Limits
CS15 D4-1,2-Dichloroethane	25.00	23.12	92.5	70 121	
CS15 D8-Toluene	25.00	24.71	98.8	81 117	
CS10 Bromofluorobenzene (BFB)	25.00	24.01	96.0	74 121	

Target Compounds: UVA101

Scan #	Concentration (UG/L)	Sample (UG/KG)	Compound
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
	BDL		C030 Methylene Chloride
	BDL		C053 Trans-1,2-Dichloroethene
	BDL		C055 cis-1,2-Dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
364	4.228	528.5	C065 1,2-Dichloroethane
	BDL		C110 2-Butanone
	BDL		C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropen
	BDL		C172 Trans-1,3-Dichloropropen
	BDL		C160 1,1,2-Trichloroethane
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform

000261

Sample #	Sample	Conc. %	Compound
1256	1.031	BUL	U200 4-Methyl-1-methylcyclohexane
		BUL	U210 Toluene
		BUL	U211 2-Hexanone
		BUL	U220 Tetrachloroethene
		BUL	U230 Unlorobenzene
		BUL	U240 Ethylbenzene
		BUL	UXXX Xylene (p)
		BUL	UXXX Xylene (o)
		BUL	U245 Styrene
1256	1.030	154.3	U225 1,1,2,2-tetrachloroethane
1458	1.033	BUL	U335 Dichlorobenzene (m)
		BUL	U340 Dichlorobenzene (p)
		BUL	U350 Dichlorobenzene (o)
		BUL	U250 Xylene (Total)

Chromatogram

Injection: 11/11/01

Sample: 10111111

Method: FID

11/11/01

Retention Time	Peak Name	Peak Found	Int	Ion	Area	Conc	Level	
1.00	*C111 Bromochloromethane	6.16	6.16	.10	126.0	29140	1.0000	80.00
2.00	C110 Chloromethane	2.87	0.00	--	60.0	0	1.2517	0.00
3.00	C113 Vinyl Chloride	2.97	0.00	--	62.0	0	1.1176	0.00
4.00	C115 Bromomethane	3.28	0.00	--	74.0	0	1.7264	0.00
5.00	C122 Chloroethane	3.38	0.00	--	64.0	0	.6664	0.00
6.00	C145 1,1-Dichloroethene	4.14	0.00	--	96.0	0	.9228	0.00
7.00	C132 Acetone	4.21	0.00	--	43.0	0	.2600	0.00
8.00	C140 Carbon Disulfide	4.38	0.00	--	76.0	0	2.9116	0.00
9.00	C120 Methylene Chloride	4.65	4.66	.01	84.0	806	1.1835	.58
10.00	C153 trans-1,2-Dichloroe	4.94	0.00	--	96.0	0	1.4226	0.00
11.00	C155 cis-1,2-Dichloroeth	6.22	0.00	--	96.0	0	1.6881	0.00
12.00	C158 1,1-Dichloroethane	5.46	0.00	--	63.0	0	2.5945	0.00
13.00	C160 Chloroform	6.67	0.00	--	83.0	0	3.1560	0.00
14.00	C165 1,2-Dichloroethane	7.57	0.00	--	62.0	0	2.1292	0.00
15.00	C110 2-Butanone	6.25	6.26	.01	72.0	764	.1527	4.23
16.00	C115 04-1,2-Dichloroetha	7.45	7.45	.00	65.0	102090	1.8652	46.24
17.00	*C110 1,4-Difluorobenzene	8.32	8.20	.12	114.0	287157	1.0000	50.00
18.00	C125 Vinyl Acetate	5.53	0.00	--	43.0	0	.3543	0.00
19.00	C115 1,1,1-Trichloroetha	6.96	0.00	--	92.0	0	.4821	0.00
20.00	C120 Carbon Tetrachlorid	7.22	0.00	--	117.0	0	.4672	0.00
21.00	C165 Benzene	7.54	7.55	.00	78.0	781	.9437	.14
22.00	C150 Trichloroethene	8.67	0.00	--	130.0	0	.4058	0.00
23.00	C140 1,2-Dichloropropane	9.09	0.00	--	63.0	0	.3404	0.00
24.00	C130 Bromodichloromethan	9.64	0.00	--	83.0	0	.5063	0.00
25.00	C175 2-Chloroethylvinyle	10.30	0.00	--	63.0	0	.1818	0.00
26.00	C143 Cis-1,3-Dichloropro	10.60	0.00	--	75.0	0	.5306	0.00
27.00	C172 Trans-1,3-Dichlorop	11.90	0.00	--	75.0	0	.4540	0.00
28.00	C160 1,1,2-Trichloroetha	12.32	0.00	--	92.0	0	.2944	0.00
29.00	C175 Dibromochloromethan	13.29	0.00	--	129.0	0	.4967	0.00
30.00	C180 Bromoform	17.24	0.00	--	173.0	0	.4160	0.00
31.00	*C120 D5-Chlorobenzene	15.03	14.85	.18	117.0	232406	1.0000	50.00
32.00	C105 D8-Toluene	11.21	11.14	.01	98.0	303785	1.3223	49.42
33.00	C205 4-Methyl-2-Pentanon	11.01	0.00	--	43.0	0	.3339	0.00
34.00	C210 Toluene	11.36	11.33	.03	92.0	3695	.7787	1.02
35.00	C210 2-Hexanone	13.06	0.00	--	43.0	0	.2318	0.00
36.00	C220 Tetrachloroethene	12.66	12.65	.01	164.0	1675	.5019	.72
37.00	C235 Chlorobenzene	14.92	14.94	.02	112.0	3572	1.0194	.75
38.00	C240 Ethylbenzene	15.29	15.29	.00	106.0	622	.5232	.26
38.00	C240 Ethylbenzene	15.29	15.67	.38	106.0	2294	.5232	.94
39.00	CXXX Xylene (p)	15.64	15.29	.35	106.0	622	.6374	.21
39.00	CXXX Xylene (p)	15.64	15.67	.02	106.0	2294	.6374	.77
39.00	CXXX Xylene (o)	16.76	16.81	.05	106.0	1816	.5785	.68
41.00	C245 Styrene	16.83	16.87	.04	104.0	3551	.9964	.77
42.00	C225 1,1,2,2-Tetrachloro	18.92	19.01	.09	83.0	2889	.5811	1.07
43.00	C110 Bromofluorobenzene	18.33	18.41	.08	95.0	132777	.5949	48.02
44.00	C335 Dichlorobenzene (m	21.77	21.90	.12	146.0	4504	.9383	1.03
45.00	C340 Dichlorobenzene (p	22.08	21.90	.19	146.0	4504	.9456	1.02
45.00	C340 Dichlorobenzene (p	22.08	22.21	.13	146.0	4276	.9456	.97
46.00	C350 Dichlorobenzene (o	23.27	23.43	.16	146.0	4182	.9057	.99

600263

Internal Standard

Date collected: 11/17/71

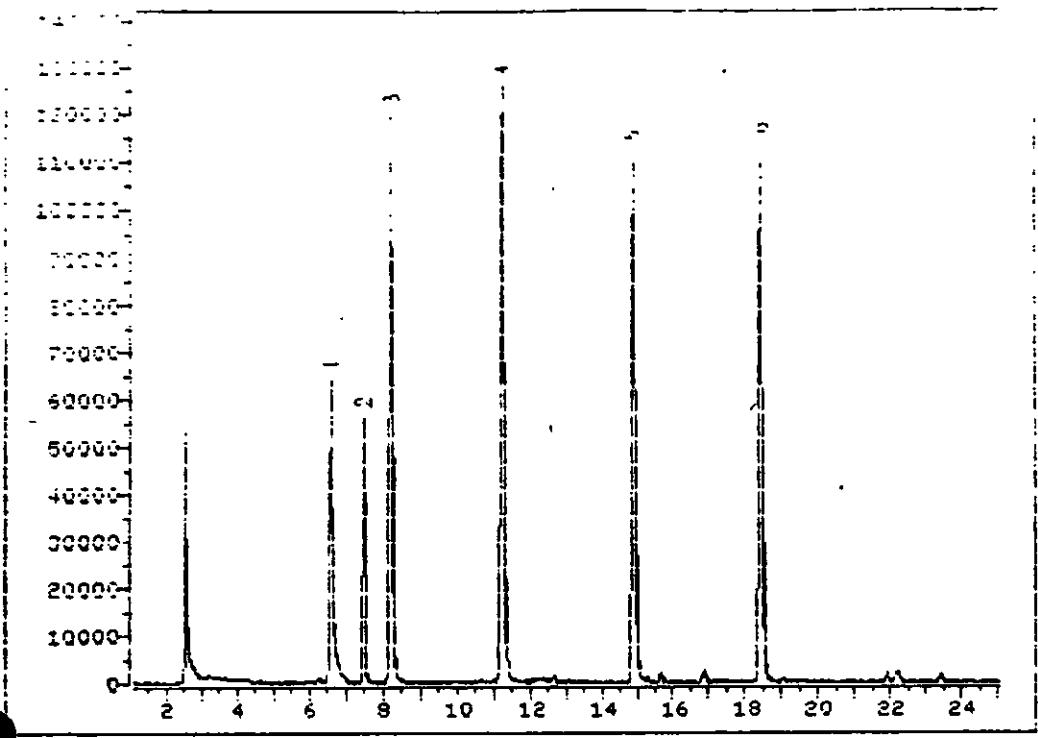
Internal Standard	Sample Area	Std Area	%
U111 Bromochloroacetylene	59130	10410	100.1
U110 1,4-Difluorobenzene	18715	24000	90.2
U110 1,3-Difluorobenzene	20245	21914	90.3

% = (Sample Area/Std Area)*100

* Area outside limits

000264

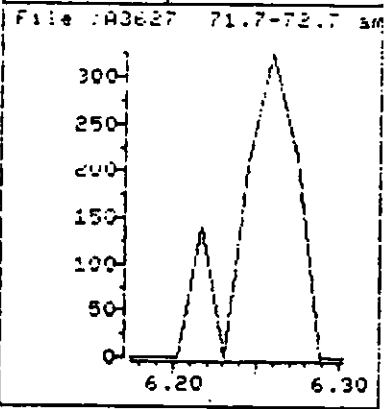
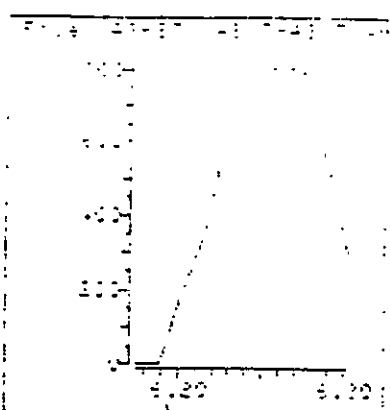
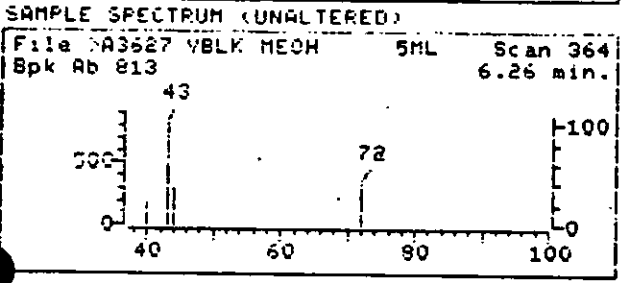
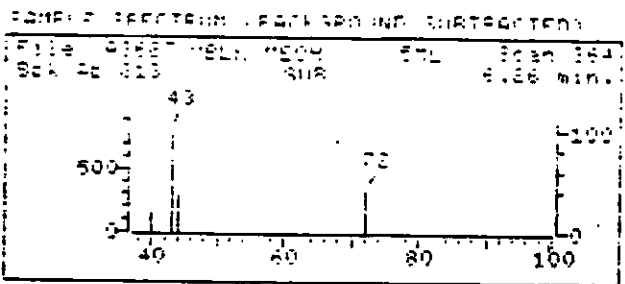
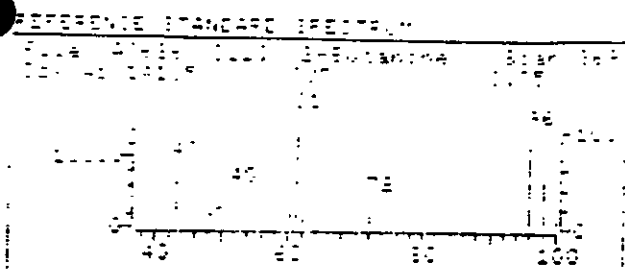
FILE: 911019 12:50:00
400 800 1200 1600



Data File: >A3627::D1 Quant Output File: >A3627::Q1
Name: VBLK MEUH ⁰² 5ML
Misc: U1, CH1, 5UL IS/S 100UL MEUH LOT #AY323

Id File: VOID1::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO
Last Calibration: 911019 12:09

Operator ID: ALANA
Quant Time: 911019 12:50
Injected at: 911019 12:16



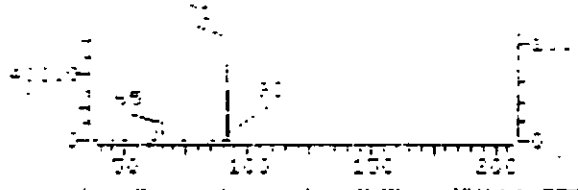
Data File: A3627::D1
 Name: VBLK MECH 5ML
 Misc: V1, CH1, 5UL 15/S 100UL MECH LOT #AY323
 Quant Time: 911019 12:50
 Injected at: 911019 12:16

Quant Output File: A3627::Q1
 Quant ID File: QUAID1::\$\$
 Last Calibration: 911019 12:09

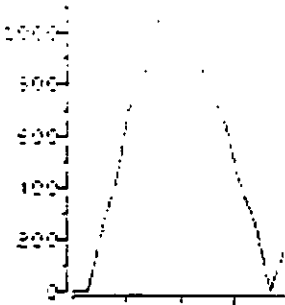
Compound No: 15
 Compound Name: C110 2-Butanone
 Scan Number: 364
 Retention Time: 6.26 min.
 Quant Ion: 72.0
 Area: 764
 Concentration: 4.23 UG/L
 q-value: 56

REFERENCE STANDARD SPECTRUM

File: A3627 VBLK MECH 5ML Scan 719
Bpk Ab 1534 11.33 min.



File: A3627 91.7-92.7 min

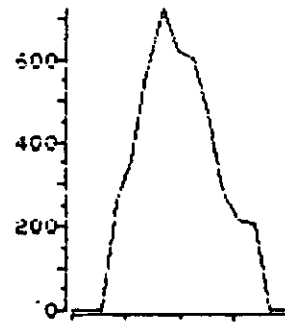


COMP. P. SPECTRUM (POST-ACQUISITION SUBTRACTED)

File: A3627 VBLK MECH 5ML Scan 719
Bpk Ab 1534 11.33 min.

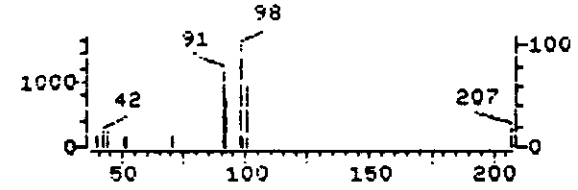


File: A3627 91.7-92.7 min



SAMPLE SPECTRUM (UNALTERED)

File: A3627 VBLK MECH 5ML Scan 719
Bpk Ab 1534 11.33 min.

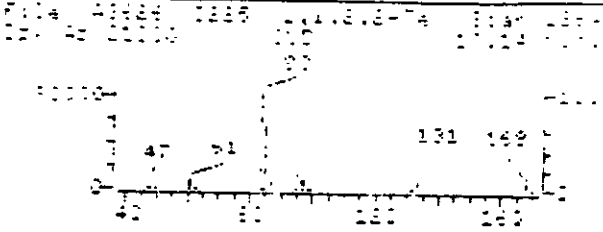


Data File: >A3627::01
Name: VBLK MECH 5ML
Misc: V1, CH1, 5UL IS/S 100UL MECH LOT #AY323
Quant Time: 911019 12:50
Injected at: 911019 12:16

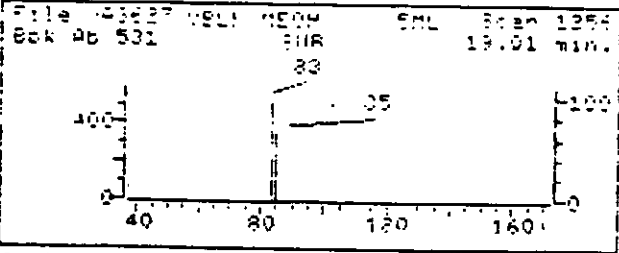
Quant Output File: >A3627::QT
Quant ID File: VQAID1::\$\$
Last Calibration: 911019 12:09

Compound No: 34
Compound Name: C230 Toluene
Scan Number: 719
Retention Time: 11.33 min.
Quant Ion: 92.0
Area: 3695
Concentration: 1.02 UG/L
q-value: 89

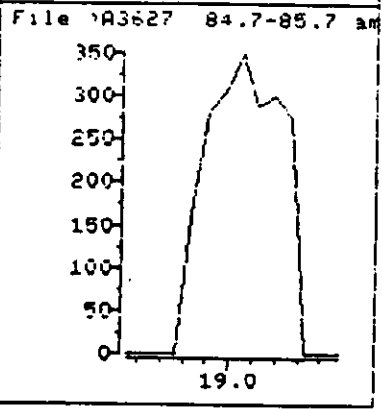
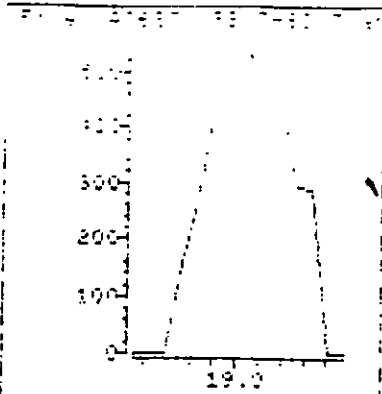
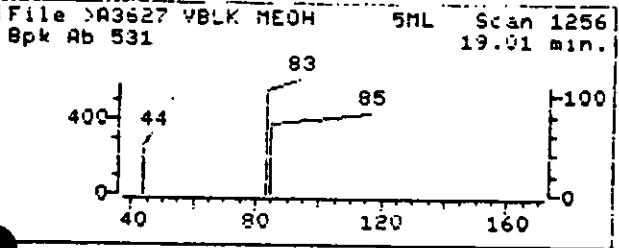
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (UNALTERED)



SAMPLE SPECTRUM (UNALTERED)



Data File: A3627::D1

Quant Output File: A3627::Q1

Name: VBLK MEOW 5ML

Misc: V1, CH1, 5UL IS/S 100UL MEOW LOT #AY323

Quant Time: 911019 12:50

Quant ID File: UDAID1::\$\$

Injected at: 911019 12:16

Last Calibration: 911019 12:09

Compound No: 42

Compound Name: C225 1,1,2,2-Tetrachloroethan

Scan Number: 1256

Retention Time: 19.01 min.

Quant Ion: 83.0

Area: 2889

Concentration: 1.07 UG/L

q-value: 94

000269

Data Reduced by : _____ Date: _____ Data File: -3507
Data Reviewed by : VIC Date: 10/21/91

Ensect TIC Report page 1

Sample: VBLM MEOH ⁰² SML Run Factor: 125.
Conditions: VI, CH1, SUL IS/S 100UL MEOH Analyst: ALANA

Concentration In Sample			CAS #	Compound
# Scan	Q C	(UG/KG)		
1	103.	2700.	00-00-0	

000270

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798

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

% Moisture: not dec. 0 Date Analyzed: 10/08/91

Column: (pack/cap) CAP Dilution Factor: 0.80

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	UU
75-01-4-----	Vinyl Chloride	10	UU
75-00-3-----	Chloroethane	10	UU
75-09-2-----	Methylene Chloride	5	UU
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	UU
540-59-0-----	1,2-Dichloroethene (total)	5	UU
67-66-3-----	Chloroform	5	UU
107-06-2-----	1,2-Dichloroethane	5	UU
78-93-3-----	2-Butanone	6	J
71-55-6-----	1,1,1-Trichloroethane	5	UU
56-23-5-----	Carbon Tetrachloride	5	UU
108-05-4-----	Vinyl Acetate	10	UU
75-27-4-----	Bromodichloromethane	5	UU
78-87-5-----	1,2-Dichloropropane	5	UU
10061-01-5-----	cis-1,3-Dichloropropene	5	UU
79-01-6-----	Trichloroethene	5	UU
124-48-1-----	Dibromochloromethane	5	UU
79-00-5-----	1,1,2-Trichloroethane	5	UU
71-43-2-----	Benzene	5	UU
10061-02-6-----	trans-1,3-Dichloropropene	5	UU
110-75-8-----	2-Chloroethylvinylether	10	UU
75-25-2-----	Bromoform	5	UU
108-10-1-----	4-Methyl-2-Pentanone	10	UU
591-78-6-----	2-Hexanone	10	UU
127-18-4-----	Tetrachloroethene	5	UU
79-34-5-----	1,1,2,2-Tetrachloroethane	5	UU
108-88-3-----	Toluene	5	UU
108-90-7-----	Chlorobenzene	5	UU
100-41-4-----	Ethylbenzene	5	UU
100-42-5-----	Styrene	5	UU
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798

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

% Moisture: not dec. 0 Date Analyzed: 10/08/91

Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

R-100891-V6A 8240-3

NC

Reduced by: JZ
Reviewed by: NR

Date: 10/8/91
Date: 10/14/91

Data File: >F2/48
Page: 1

>F2798
CS₂
2-But

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

Sample: VBLK, ^{C3} 5ML MID.
Misc : V6, LH#U2, BUL 15/5
Injected : 10/08/91 14:09
Analyst: KERYLYNN
ID File: HAMID6
Quant list threshold: 1.00

Units: UG/KG
Run Factor: 1.000
Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured (ug)	% Recovery Measured	QC limits
LS17 U4-1,2-dichloroethane	.2500	.2497	99.9	70 121
LS07 U8-toluene	.2500	.2608	104	84 117
LS10 Bromofluorobenzene	.2500	.2630	105	89 121

Target Compounds: 'HAMID6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/KG	
			BUL CU12 Dichlorodifluoromethane
			BUL CU10 Chloromethane
			BUL CU20 Vinyl Chloride
			BUL CU15 Bromomethane
			BUL CU25 Chloroethane
			BUL CU28 Trichlorofluoromethane
			BUL CU45 1,1-Dichloroethane
			BUL CU38 1,1,2-Trichloro-1,2,2-tri
			BUL CU35 Acetone
225	4.883	4.9	BUL CU40 Carbon Disulfide
			BUL CU30 Methylene Chloride
			BUL CU53 Trans-1,2-dichloroethene
			BUL CU55 Cis-1,2-dichloroethene
			BUL CU50 1,1-Dichloroethane
			BUL CU60 Chloroform
			BUL CU65 1,2-Dichloroethane
422	5.638	5.6	BUL C110 2-Butanone
			BUL C125 Vinyl Acetate
			BUL C115 1,1,1-Trichloroethane
			BUL C120 Carbon Tetrachloride
			BUL C165 Benzene
			BUL C150 Trichloroethene
			BUL C140 1,2-Dichloropropane
			BUL C130 Bromodichloromethane
			BUL C175 2-Chloroethylvinylether
			BUL C143 Cis-1,3-Dichloropropene
			BUL C172 Trans-1,3-dichloropropene

Data file: >F2/98
Sample: UBLK_03 5ML MID.

Page: 2

Concentration			
Scan #	Quant list	Sample	Compound
	UG/L	UG/KG	
BUL		L160	1,1,2-Trichloroethane
BUL		L155	Dibromochloromethane
BUL		L180	Bromoform
BUL		L205	4-Methyl-2-pentanone
BUL		L230	Toluene
BUL		L210	2-Hexanone
BUL		L220	Tetrachloroethene
BUL		L235	Chlorobenzene
BUL		L240	Ethylbenzene
BUL		LXXX	Xylenes (p)
BUL		LXXX	Xylenes (o)
BUL		L245	Styrene
BUL		L225	1,1,2,2-tetrachloroethane
BUL		L335	Dichlorobenzene (m)
BUL		L340	Dichlorobenzene (p)
BUL		L350	Dichlorobenzene (o)
BUL		L250	Xylenes (total)

Diagnostic Quant Report

Data File: F2798::D6 Injected at: 14:09 10/08/91
 Quant: 14:37 10/08/91
 ID File: HAMID6::MT Calibrated: 11:20 04/08/91

- R.T. Info -

Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C101	Bromochloromethane	7.23	7.26	.03	128.0	84171	1.0000	50.00
2)	C012 Dichlorodifluorometh	2.45	0.00	--	85.0	0	1.0757	0.00
3)	C010 Chloromethane	2.69	0.00	--	50.0	0	1.1039	0.00
4)	C020 Vinyl Chloride	2.83	0.00	--	62.0	0	1.0896	0.00
5)	C015 Bromomethane	3.24	0.00	--	94.0	0	1.1029	0.00
6)	C025 Chloroethane	3.35	0.00	--	64.0	0	.6017	0.00
7)	C028 Trichlorofluorometha	3.67	0.00	--	101.0	0	1.9343	0.00
8)	C045 1,1-Dichloroethene	4.31	0.00	--	96.0	0	1.0123	0.00
9)	C038 1,1,2-Trichloro-1,2,	4.31	0.00	--	101.0	0	2.3058	0.00
10)	C035 Acetone	4.42	0.00	--	43.0	0	.4339	0.00
11)	C040 Carbon Disulfide	4.62	4.63	.02	76.0	24599	2.9923	4.88
11)D	C040 Carbon Disulfide	4.62	4.87	.25	76.0	1320	2.9923	.26
12)	C030 Methylene Chloride	4.97	0.00	--	84.0	0	1.4571	0.00
13)	C053 Trans-1,2-dichloroet	5.33	0.00	--	96.0	0	1.4870	0.00
14)	C055 Cis-1,2-dichloroethe	6.85	0.00	--	96.0	0	1.7015	0.00
15)	C050 1,1-Dichloroethane	5.95	0.00	--	63.0	0	2.8582	0.00
16)	C060 Chloroform	7.41	0.00	--	83.0	0	3.1850	0.00
17)	C065 1,2-Dichloroethane	8.44	0.00	--	62.0	0	2.1457	0.00
18)	C110 2-Butanone	6.91	6.93	.01	72.0	2991	.3151	5.64
19)	CS15 D4-1,2-dichloroethan	8.30	8.29	.01	65.0	144254	1.7156	49.95
20)	*C110 1,4-Difluorobenzene	9.12	9.14	.02	114.0	416706	1.0000	50.00
21)	C125 Vinyl Acetate	6.01	0.00	--	43.0	0	.9307	0.00
22)	C115 1,1,1-Trichloroethan	7.71	0.00	--	97.0	0	.5330	0.00
23)	C120 Carbon Tetrachloride	8.00	0.00	--	117.0	0	.4382	0.00
24)	C165 Benzene	8.38	0.00	--	78.0	0	.9528	0.00
25)	C150 Trichloroethene	9.67	0.00	--	130.0	0	.3865	0.00
26)	C140 1,2-Dichloropropane	10.13	0.00	--	63.0	0	.4025	0.00
27)	C130 Bromodichloromethane	10.75	0.00	--	83.0	0	.6435	0.00
28)	C175 2-Chloroethylvinylet	11.49	0.00	--	63.0	0	.2689	0.00
29)	C143 Cis-1,3-Dichloroprop	11.80	0.00	--	75.0	0	.5928	0.00
30)	C172 Trans-1,3-dichloropr	13.22	0.00	--	75.0	0	.5155	0.00
31)	C160 1,1,2-Trichloroethan	13.67	0.00	--	97.0	0	.3815	0.00
32)	C155 Dibromochloromethane	14.71	0.00	--	129.0	0	.5619	0.00
33)	C180 Bromoform	18.92	0.00	--	173.0	0	.4211	0.00
34)	*C120 D5-Chlorobenzene	16.30	16.34	.04	117.0	313814	1.0000	50.00
35)	CS05 D8-Toluene	12.45	12.46	.01	98.0	410688	1.2547	52.15
35)D	CS05 D8-Toluene	12.45	12.82	.37	98.0	2270	1.2547	.29
36)	C205 4-Methyl-2-pentanone	12.23	0.00	--	43.0	0	.9161	0.00
37)	C230 Toluene	12.62	0.00	--	92.0	0	.8255	0.00
38)	C210 2-Hexanone	14.45	0.00	--	43.0	0	.6983	0.00
39)	C220 Tetrachloroethene	14.03	0.00	--	164.0	0	.4264	0.00
40)	C235 Chlorobenzene	16.42	0.00	--	112.0	0	1.0439	0.00
41)	C240 Ethylbenzene	16.81	0.00	--	106.0	0	.4965	0.00
42)	CXXX Xylenes (p)	17.18	0.00	--	106.0	0	.6578	0.00
43)	CXXX Xylenes (o)	18.36	0.00	--	106.0	0	.6174	0.00
44)	C245 Styrene	18.42	0.00	--	104.0	0	1.0869	0.00
45)	C225 1,1,2,2-Tetrachloroe	20.60	0.00	--	83.0	0	1.0059	0.00
46)	CS10 Bromofluorobenzene	20.00	19.98	.01	95.0	249376	.7000	60
47)	C335 Dichlorobenzene (m)	23.58	23.56	.02	146.0	1464	.9166	.25
47)D	C335 Dichlorobenzene (m)	23.58	23.88	.30	146.0	2263	.8166	.39

000275

19)	C350 Dichlorobenzene	25.13	0.00	--	140.0	0	.8883	0.00
20)	C250 Xylenes (total)	18.36	0.00	--	106.0	0	.6214	0.00

* - Compound is an Internal Standard

D - Compound Deleted

000276

Internal Standard Comparison

Sample: 1F2798 Date injected: 10-08-91 Standard: 1F2790 ✓

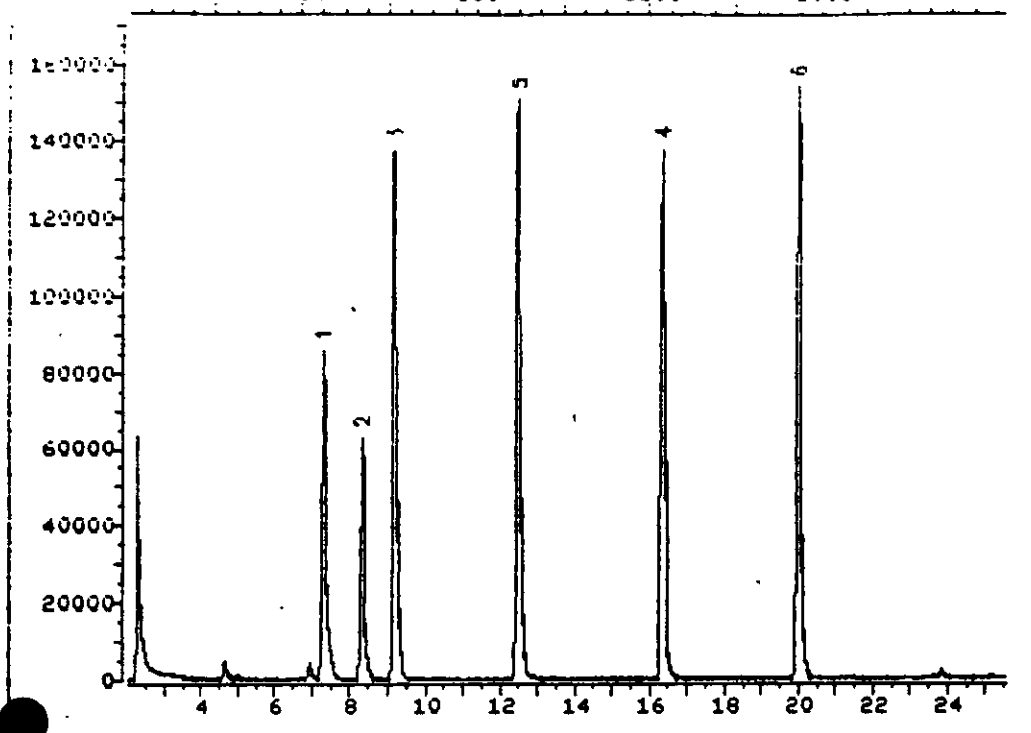
Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	84171	91542	91.9
CI10 1,4-Difluorobenzene	416706	441917	94.3
CI20 D5-Chlorobenzene	313814	336266	93.3

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM

File F2798 35.0-300.0 amu. UBLK 5ML HTD. 16. CH#02, 5UL IS/S
TIC
400 800 1200 1600 2000



Data File: >F2798::D6
Name: UBLK 5ML HTD.
Misc: U6, CH#02, 5UL IS/S

Quant Output File: ^F2798::D7
Instrument ID: U6

Id File: HAMID6::MT
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
Last Calibration: 910408 11:20 Last Qcal Time: 911008 08:09

Operator ID: KERYLYNN
Quant Time : 911008 14:37
Injected at: 911008 14:09

QUANT REPORT

Page 1

Operator ID: KERYLANN
 Output File: *F2799::07
 Data File: *F2799::06
 Name: UBLK, 3 5ML HTD.
 Misc: U6, CR#02, 5UL 15/5

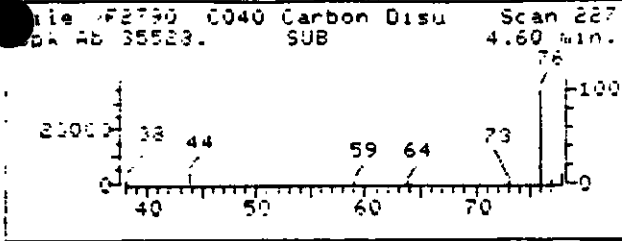
Quant Rev: 7 Quant Time: 91108 14:37
 Injected at: 91108 14:09
 Dilution Factor: 1.00000
 Instrument ID: U6

ID File: HAMID6::MT
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCO/ENSECO
 Last Calibration: 910408 11:20 Last Qcal Time: 911008 08:09

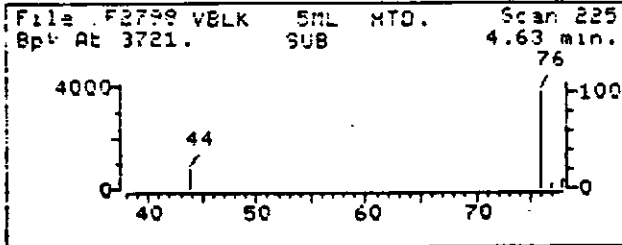
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.26	128.0	84171	50.00	UG/L	88
11)	C040 Carbon Disulfide	4.63	76.0	24599	4.88	UG/L	100
18)	C110 2-Butanone	6.93	72.0	2991	5.64	UG/L	97
19)	CS15 D4-1,2-dichloroethane	8.29	65.0	144254	49.95	UG/L	85
20)	*CI10 1,4-Difluorobenzene	9.14	114.0	416706	50.00	UG/L	100
34)	*CI20 D5-Chlorobenzene	16.34	117.0	313814	50.00	UG/L	100
35)	CS05 D8-Toluene	12.46	98.0	410688	52.15	UG/L	92
46)	CS10 Bromofluorobenzene	19.98	95.0	249376	52.60	UG/L	74
47)	C335 Dichlorobenzene (m)	23.56	146.0	1464	.254	UG/L	100
48)	C340 Dichlorobenzene (p)	23.88	146.0	2263	.375	UG/L	100

* Compound is ISTD

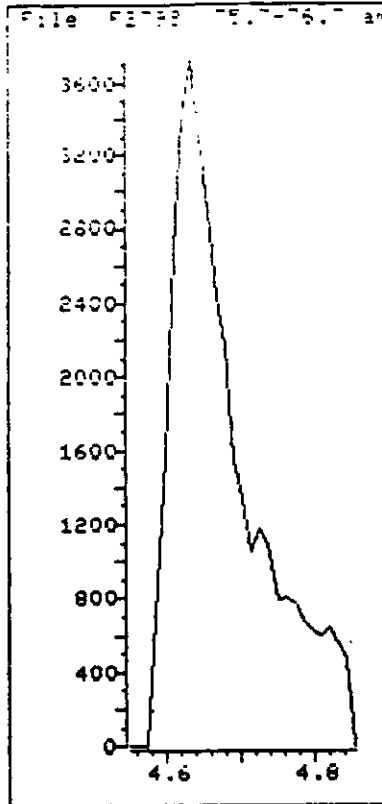
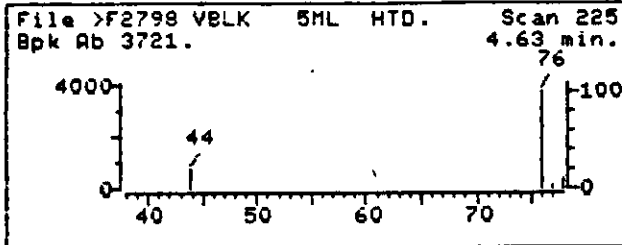
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



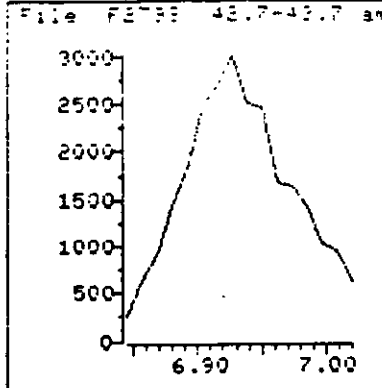
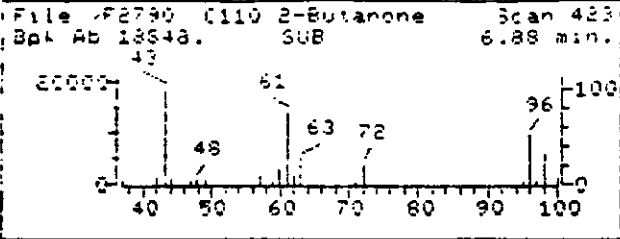
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Name: VBLK 5ML HTD.
Misc: U6, CH#02, 5UL IS/S
Quant Time: 911008 14:37
Injected at: 911008 14:09
Last Qcal Time: 911008 08:09

Quant Output File: ^F2798::D7
Instrument ID: U6

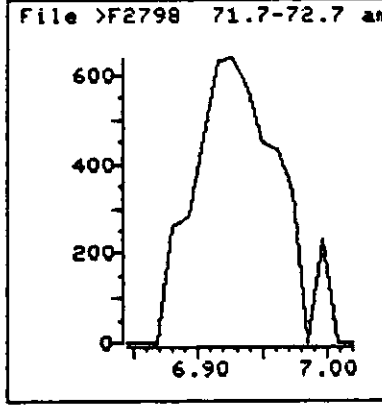
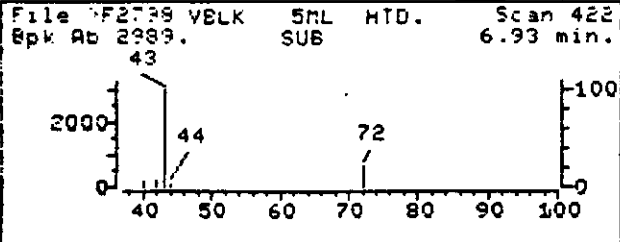
Quant ID File: HAMID6::MT
Last Calibration: 910408 11:20

Compound No : 11
Compound Name : C040 Carbon Disulfide
Scan Number : 225
Retention Time: 4.63 min.
Quant Ion : 76.0
Area : 24599
Concentration : 4.88 UG/L
q-value : 100

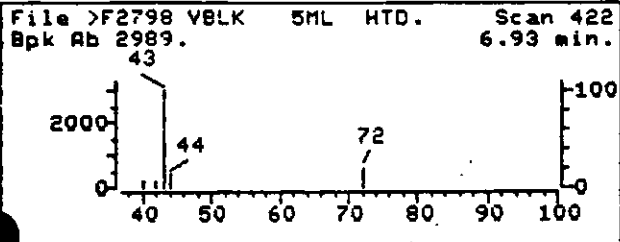
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2798::D6
Name: VBLK 5ML HTD.
Misc: U6, CH#02, 5UL IS/S
Quant Time: 911008 14:37
Injected at: 911008 14:09
Last Qcal Time: 911008 08:09

Quant Output File: ^F2798::D7
Instrument ID: U6
Quant ID File: HAMID6::MT
Last Calibration: 910408 11:20

Compound No : 18
Compound Name : C110 2-Butanone
Scan Number : 422
Retention Time: 6.93 min.
Quant Ion : 72.0
Area : 2991
Concentration : 5.64 UG/L
q-value : 97

Data Reduced by : JE Date: 10/8/91
Data Reviewed by : W Date: 10/14/91

Data File: F1799

Enseco TIC Report (page 1)

Sample: MELK ²³ 5ML STD.
Conditions: 06, CH#02, 5UL IS/S

Run Factor: 1.00
Analyst: KEPYLYNN

Concentration
In Sample

# Scan	Q	C (UG/KG)	CAS #	Compound
--------	---	-----------	-------	----------

No Unknowns

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2870

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

% Moisture: not dec. 0 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	140	J
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
110-75-8	2-Chloroethylvinylether	1200	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK04
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2870
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/10/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

L-100771-V6A

NC

R-101091-V6A 8240-

Produced by: SE Date: 10/10/91

Data File: >F2870
Page: 1

>F2870

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

meCl2

Sample: VBLK. ^{cy} MeOH 100UL.
Misc : V6, CH#02, 5UL 15/5
Injected : 10/10/91 14:28
Analyst: KERYLYNN
ID File: MUBIU6
Quant list threshold: 1.00

Units: UG/KG
Run Factor: 125.000
Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 U4-1,2-dichloroethane	.2500	.2658	106	70 121
CS05 U8-toluene	.2500	.2519	101	84 117
CS10 Bromofluorobenzene	.2500	.2552	101	59 121

Target Compounds: MUBIU6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/KG	
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
252	1.161	1505	C030 Methylene Chloride
	BDL	BDL	CXXX Tert-butyl alcohol
	BDL		C053 Trans-1,2-dichloroethene
	BDL		C055 Cis-1,2-dichloroethene
	BDL		CXXX Methyl tert-butyl ether
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
	BDL		C110 2-Butanone
	BDL		C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropene
	BDL		C172 Trans-1,3-dichloropropene
	BDL		C160 1,1,2-Trichloroethane

000285

Data file: >F2870 -04 Page: 2
Sample: VBLK. MeOH 1000L.

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

000286

Diagnostic Quant Report

Date File: 03370:06 Injected at: 1-28 10 10 91
 Sample : 1-56 10/10/91
 ID File : MOB06:INT Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *C101 Bromochloromethane	7.26	7.27	.01	128.0	69679	1.0000	50.00
2) C010 Chloromethane	2.69	0.00	--	50.0	0	1.1732	0.00
3) C020 Vinyl Chloride	2.84	0.00	--	62.0	0	1.0243	0.00
4) C015 Bromomethane	3.23	0.00	--	94.0	0	.8064	0.00
5) C025 Chloroethane	3.35	0.00	--	64.0	0	.4830	0.00
6) C045 1,1-Dichloroethene	4.33	0.00	--	96.0	0	1.2352	0.00
7) C035 Acetone	4.42	0.00	--	43.0	0	.2076	0.00
8) C040 Carbon Disulfide	4.63	0.00	--	76.0	0	3.6934	0.00
9) C030 Methylene Chloride	4.96	4.94	.02	84.0	2816	1.7398	1.16
10) CXXX Tert-butyl alcohol	5.12	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.35	0.00	--	96.0	0	1.6583	0.00
12) C055 Cis-1,2-dichloroethe	6.88	0.00	--	96.0	0	1.7907	0.00
13) CXXX Methyl tert-butyl et	5.37	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	5.97	0.00	--	63.0	0	3.2420	0.00
15) C060 Chloroform	7.41	0.00	--	83.0	0	3.6056	0.00
16) C065 1,2-Dichloroethane	8.45	0.00	--	62.0	0	2.1656	0.00
17) C110 2-Butanone	6.89	0.00	--	72.0	0	.1151	0.00
18) CS15 D4-1,2-dichloroethan	8.31	8.31	.00	65.0	125843	1.6984	53.17
19) *C110 1,4-Difluorobenzene	9.15	9.16	.01	114.0	393780	1.0000	50.00
20) C125 Vinyl Acetate	6.04	0.00	--	43.0	0	.6092	0.00
21) C115 1,1,1-Trichloroethan	7.74	0.00	--	97.0	0	.5475	0.00
22) C120 Carbon Tetrachloride	8.03	0.00	--	117.0	0	.4487	0.00
23) C165 Benzene	8.42	0.00	--	78.0	0	.9682	0.00
24) C150 Trichloroethene	9.70	0.00	--	130.0	0	.3931	0.00
25) C140 1,2-Dichloropropane	10.17	0.00	--	63.0	0	.3949	0.00
26) C130 Bromodichloromethane	10.80	0.00	--	83.0	0	.5930	0.00
27) C175 2-Chloroethylvinylet	11.52	0.00	--	63.0	0	.1765	0.00
28) C143 Cis-1,3-Dichloroprop	11.83	0.00	--	75.0	0	.5817	0.00
29) C172 Trans-1,3-dichloropr	13.24	0.00	--	75.0	0	.4559	0.00
30) C160 1,1,2-Trichloroethan	13.71	0.00	--	97.0	0	.3107	0.00
31) C155 Dibromochloromethane	14.76	0.00	--	129.0	0	.4736	0.00
32) C180 Bromoform	18.97	0.00	--	173.0	0	.2745	0.00
33) *C120 D5-Chlorobenzene	16.37	16.40	.03	117.0	307497	1.0000	50.00
34) CS05 D8-Toluene	12.49	12.49	.00	98.0	394776	1.2743	50.37
35) C205 4-Methyl-2-pentanone	12.25	0.00	--	43.0	0	.3539	0.00
36) C230 Toluene	12.66	0.00	--	92.0	0	.8513	0.00
37) C210 2-Hexanone	14.46	0.00	--	43.0	0	.2308	0.00
38) C220 Tetrachloroethene	14.07	0.00	--	164.0	0	.4399	0.00
39) C235 Chlorobenzene	16.47	0.00	--	112.0	0	1.0207	0.00
40) C240 Ethylbenzene	16.86	0.00	--	106.0	0	.5133	0.00
41) CXXX Xylenes (p)	17.23	0.00	--	106.0	0	.6661	0.00
42) CXXX Xylenes (o)	18.41	0.00	--	106.0	0	.6234	0.00
43) C245 Styrene	18.46	0.00	--	104.0	0	1.1017	0.00
44) C225 1,1,2,2-Tetrachloroe	20.65	0.00	--	83.0	0	.6160	0.00
45) CS10 Bromofluorobenzene	20.07	20.07	.00	95.0	225893	.7254	50.64
46) C335 Dichlorobenzene (m)	23.64	0.00	--	146.0	0	.8937	0.00
47) C340 Dichlorobenzene (p)	23.95	0.00	--	146.0	0	.8234	0.00
48) C350 Dichlorobenzene (o)	25.19	0.00	--	146.0	0	.8347	0.00

000287

Internal Standard Comparison

Sample: F1370 Date injected: 10-10-91 Standard: F1355

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	69679	76639	90.9
CI10 1,4-Difluorobenzene	393790	407218	96.7
CI20 05-Chlorobenzene	307497	313165	98.2

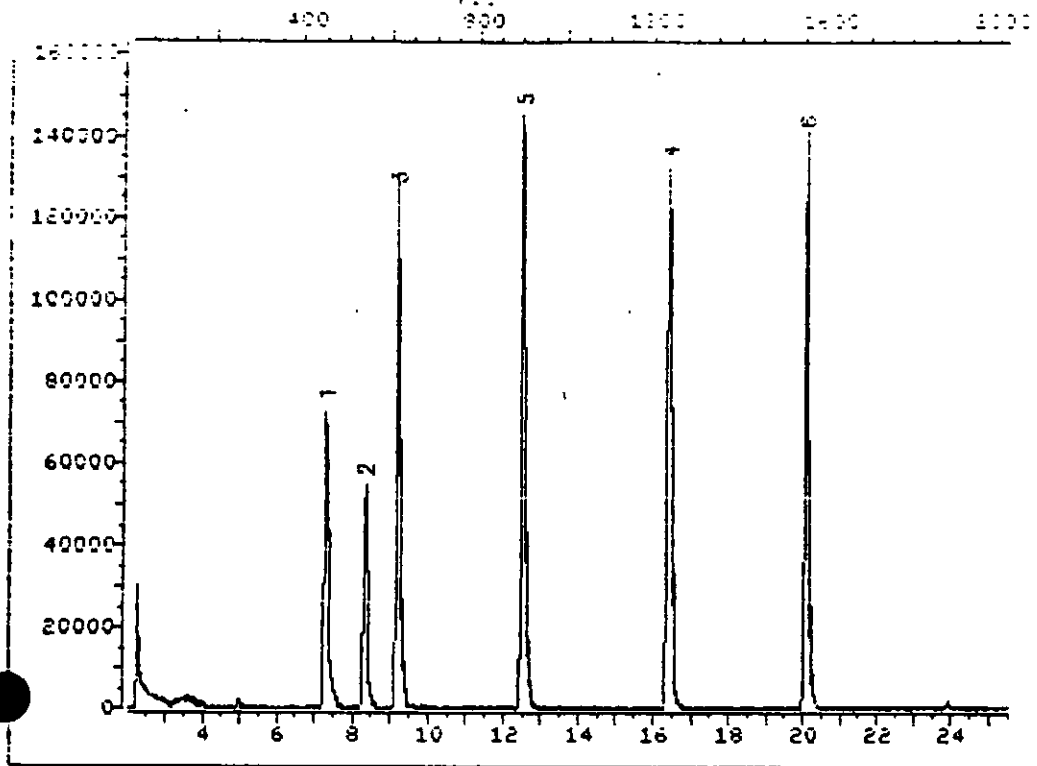
% = (Sample Area/Std Area)*100

* Area outside limits

000288

TOTAL ION CHROMATOGRAM

File F2870 25.0-300.0 amu. V6Ch. Name 100UL. 9. 14.13. 11 3



Data File: >F2870::D6
Name: UBLK MeOH 100UL.
Misc: U6, CH#02, 5UL IS/S

Quant Output File: ^F2870::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911010 11:03

Operator ID: KERYLYNN
Quant Time : 911010 14:56
Injected at: 911010 14:28

QUANT REPORT

Page 1

Operator ID: KERYLYNN
 Output File: F2870::D7
 Data File: F2870::D6
 Name: UBLK. MeOH 100UL
 Misc: U6, CH#02, 5UL IS/S

Quant Re : 7 Quant Time: 911010 14:26
 Injected at: 911010 14:28
 Dilution Factor: 1.00000
 Instrument ID: U6

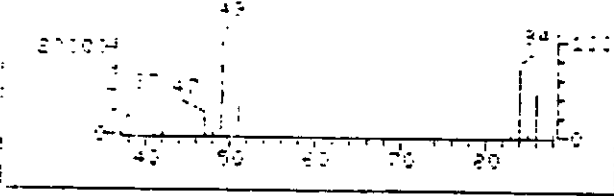
ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911010 11:03

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.27	128.0		69679	50.00	UG/L	70
9) C030 Methylene Chloride	4.94	84.0		2816	1.16	UG/L	61
18) CS15 D4-1,2-dichloroethane	8.31	65.0		125843	53.17	UG/L	94
19) *CI10 1,4-Difluorobenzene	9.16	114.0		393780	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.40	117.0		307497	50.00	UG/L	100
34) CS05 D8-Toluene	12.49	98.0		394776	50.37	UG/L	99
45) CS10 Bromofluorobenzene	20.07	95.0		225893	50.64	UG/L	72

Compound is ISTD

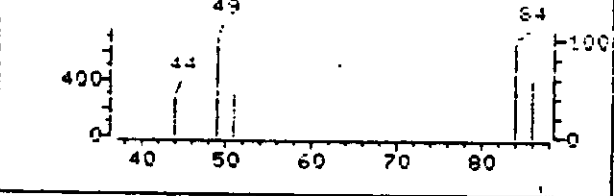
REFERENCE STANDARD SPECTRUM

File: F1987 C030 Methylene C Scan 254
Bpk Ab 11952. 308 4.94 min.



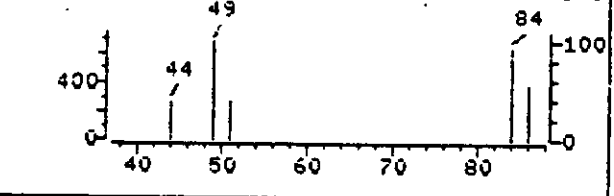
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File: F2870 VBLK. MeOH 100U Scan 252
Bpk Ab 684. 308 4.94 min.

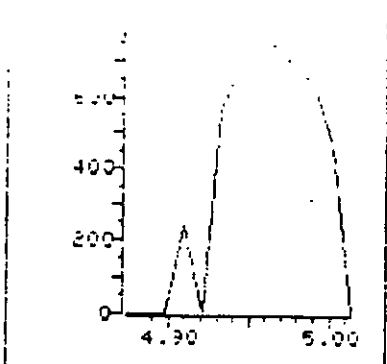


SAMPLE SPECTRUM (UNALTERED)

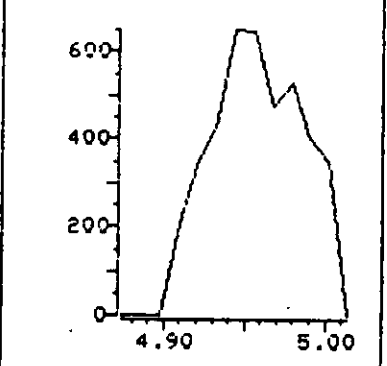
File: F2870 VBLK. MeOH 100U Scan 252
Bpk Ab 684. 308 4.94 min.



File: F2870 83.7-84.7 am



File: F2870 83.7-84.7 am



Data File: >F2870::D6
Name: UBLK. MeOH 100UL-01
Misc: U6, CH#02, 5UL IS/S
Quant Time: 911010 14:56
Injected at: 911010 14:28
Last Qcal Time: 911010 11:03

Quant Output File: ^F2870::D7
Instrument ID: U6

Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 9
Compound Name : C030 Methylene Chloride
Scan Number : 252
Retention Time: 4.94 min.
Quant Ion : 84.0
Area : 2816
Concentration : 1.16 UG/L
q-value : 61

Data Reduced by : TJV Date: 10/05/01
Data Reviewed by : _____ Date: _____

Data File: >F287U

Enseco IIL Report (page 1)

Sample: UBLK. MeUH 100UL. 04
Conditions: V6, LH#02, 5UL 15/S

Run Factor: 125.
Analyst: KERYLYNN

#	Scan	Q	L	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

No. Unks

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK05

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2910

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

% Moisture: not dec. 0 Date Analyzed: 10/11/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	1200	U
74-83-9-----	Bromomethane	1200	U
75-01-4-----	Vinyl Chloride	1200	U
75-00-3-----	Chloroethane	1200	U
75-09-2-----	Methylene Chloride	620	U
67-64-1-----	Acetone	1200	U
75-15-0-----	Carbon Disulfide	620	U
75-35-4-----	1,1-Dichloroethene	620	U
75-34-3-----	1,1-Dichloroethane	620	U
540-59-0-----	1,2-Dichloroethene (total)	620	U
67-66-3-----	Chloroform	620	U
107-06-2-----	1,2-Dichloroethane	620	U
78-93-3-----	2-Butanone	1200	U
71-55-6-----	1,1,1-Trichloroethane	620	U
56-23-5-----	Carbon Tetrachloride	620	U
108-05-4-----	Vinyl Acetate	1200	U
75-27-4-----	Bromodichloromethane	620	U
78-87-5-----	1,2-Dichloropropane	620	U
10061-01-5-----	cis-1,3-Dichloropropene	620	U
79-01-6-----	Trichloroethene	620	U
124-48-1-----	Dibromochloromethane	620	U
79-00-5-----	1,1,2-Trichloroethane	620	U
71-43-2-----	Benzene	620	U
10061-02-6-----	trans-1,3-Dichloropropene	620	U
110-75-8-----	2-Chloroethylvinylether	1200	U
75-25-2-----	Bromoform	620	U
108-10-1-----	4-Methyl-2-Pentanone	1200	U
591-78-6-----	2-Hexanone	1200	U
127-18-4-----	Tetrachloroethene	620	U
79-34-5-----	1,1,2,2-Tetrachloroethane	620	U
108-88-3-----	Toluene	620	U
108-90-7-----	Chlorobenzene	620	U
100-41-4-----	Ethylbenzene	620	U
100-42-5-----	Styrene	620	U
1330-20-7-----	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK05

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK05
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2910
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/11/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Reduced by: DPV Date: 10/29/91
 Prepared by: L Date: 10/29/91

Data File: 80813
Page: 1

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

Sample: MECH 5ML
 Test: 4-01
 Injected: 10-11-91 22:50
 Analyst: KERYLYN
 ID File: MOBID6
 Quant list threshold: 1.00

Units: UG/KG
 Run Factor: 135.000
 Surrogate Mol: 1.500

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QC Limits
CS15 D4-1,2-dichloroethane	25.00	24.36	97.4	70 121
CS05 D8-Toluene	25.00	25.01	100	81 117
CS10 Bromofluorobenzene	25.00	23.47	93.9	74 121

Target Compounds: MOBID6

Concentration	Quant List	Sample	Compound
UG/L	UG/L	UG/KG	
BDL			C010 Chloromethane
BDL			C020 Vinyl Chloride
BDL			C015 Bromomethane
BDL			C025 Chloroethane
BDL			C045 1,1-Dichloroethene
BDL			C035 Acetone
BDL			C040 Carbon Disulfide
BDL			C030 Methylene Chloride
BDL			CXXX Tert-butyl alcohol
BDL			C053 Trans-1,2-dichloroethene
BDL			C055 Cis-1,2-dichloroethene
BDL			CXXX Methyl tert-butyl ether
BDL			C050 1,1-Dichloroethane
BDL			C060 Chloroform
BDL			C065 1,2-Dichloroethane
BDL			C110 2-Butanone
BDL			C125 Vinyl Acetate
BDL			C115 1,1,1-Trichloroethane
BDL			C120 Carbon Tetrachloride
BDL			C165 Benzene
BDL			C150 Trichloroethene
BDL			C140 1,2-Dichloropropane
BDL			C130 Bromodichloromethane
BDL			C175 2-Chloroethylvinylether
BDL			C143 Cis-1,3-Dichloropropene
BDL			C172 Trans-1,3-dichloropropene
BDL			C160 1,1,2-Trichloroethane

No Add'l Compals.

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
882	1.712	BDL	C155 Dibromochloromethane
		BDL	C180 Bromoform
		210 SNG	C205 4-Methyl-2-pentanone
		BDL	C230 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
		BDL	C240 Ethylbenzene
		BDL	CXXX Xylenes (p)
		BDL	CXXX Xylenes (o)
		BDL	C245 Styrene
		BDL	C225 1,1,2,2-Tetrachloroethane
		BDL	C335 Dichlorobenzene (m)
1882	1.007	138 NR	C340 Dichlorobenzene (p)
1988	1.254	160 NR	C350 Dichlorobenzene (o)
		BDL	C250 Xylenes (total)

TRU
10/91

Diagnostic Check Report

Data File: F2919:06 Injected at: 20:50 10 11 91
 Sample: 02:17 10:12:91
 ID File: MCS:06:MT Calibrated: 09:37 09 11 91

Compound		- R.T. Info -			Ion	Area	RF	Conc.
		Pred	Found	Dif				
1)	*C101 Bromochloromethane	7.26	7.28	.01	128.0	58228	1.0000	50.00
2)	C010 Chloromethane	2.70	0.00	--	50.0	0	1.2686	0.00
3)	C020 Vinyl Chloride	2.83	0.00	--	62.0	0	1.3773	0.00
4)	C015 Bromomethane	3.24	0.00	--	94.0	0	1.1465	0.00
5)	C025 Chloroethane	3.35	0.00	--	64.0	0	.5794	0.00
6)	C045 1,1-Dichloroethene	4.34	0.00	--	96.0	0	1.4977	0.00
7)	C035 Acetone	4.41	0.00	--	43.0	0	.2700	0.00
8)	C040 Carbon Disulfide	4.63	0.00	--	76.0	0	4.2959	0.00
9)	C030 Methylene Chloride	4.98	4.97	.01	84.0	1594	1.9495	.63
10)	CXXX Tert-butyl alcohol	5.13	0.00	--	59.0	0	.0770	0.00
11)	C053 Trans-1,2-dichloroet	5.35	0.00	--	96.0	0	1.8870	0.00
12)	C055 Cis-1,2-dichloroethe	6.87	0.00	--	96.0	0	2.1051	0.00
13)	CXXX Methyl tert-butyl et	5.35	0.00	--	73.0	0	3.2861	0.00
14)	C050 1,1-Dichloroethane	5.96	0.00	--	63.0	0	3.5292	0.00
15)	C060 Chloroform	7.41	0.00	--	83.0	0	4.0280	0.00
16)	C065 1,2-Dichloroethane	8.46	0.00	--	62.0	0	2.4804	0.00
17)	C110 2-Butanone	6.88	0.00	--	72.0	0	.1404	0.00
18)	CS15 D4-1,2-dichloroethan	8.30	8.31	.01	65.0	123026	1.9353	48.73
19)	*C110 1,4-Difluorobenzene	9.15	9.17	.02	114.0	402183	1.0000	50.00
20)	C125 Vinyl Acetate	6.04	0.00	--	43.0	0	.4676	0.00
21)	C115 1,1,1-Trichloroethan	7.74	0.00	--	97.0	0	.5747	0.00
22)	C120 Carbon Tetrachloride	8.04	0.00	--	117.0	0	.4641	0.00
23)	C165 Benzene	8.42	0.00	--	78.0	0	1.0150	0.00
24)	C150 Trichloroethene	9.70	0.00	--	130.0	0	.4334	0.00
25)	C140 1,2-Dichloropropane	10.18	0.00	--	63.0	0	.4174	0.00
26)	C130 Bromodichloromethane	10.79	0.00	--	83.0	0	.6012	0.00
27)	C175 2-Chloroethylvinylet	11.52	0.00	--	63.0	0	.1957	0.00
28)	C143 Cis-1,3-Dichloroprop	11.84	0.00	--	75.0	0	.6106	0.00
29)	C172 Trans-1,3-dichloropr	13.26	0.00	--	75.0	0	.4875	0.00
30)	C160 1,1,2-Trichloroethan	13.71	0.00	--	97.0	0	.3429	0.00
31)	C155 Dibromochloromethane	14.76	0.00	--	129.0	0	.5106	0.00
32)	C180 Bromoform	18.96	0.00	--	173.0	0	.3125	0.00
33)	*C120 D5-Chlorobenzene	16.34	16.40	.06	117.0	327566	1.0000	50.00
34)	CS05 D8-Toluene	12.50	12.50	.01	98.0	393208	1.1997	50.03
35)	4)D CS05 D8-Toluene	12.50	12.90	.40	98.0	1916	1.1997	.24
36)	C205 4-Methyl-2-pentanone	12.26	12.28	.02	43.0	4004	.3569	1.71
37)	C230 Toluene	12.67	12.67	.00	92.0	1537	.8509	.28
38)	C210 2-Hexanone	14.48	14.52	.03	43.0	1587	.2562	.95
39)	C220 Tetrachloroethene	14.09	0.00	--	164.0	0	.4391	0.00
40)	C235 Chlorobenzene	16.50	0.00	--	112.0	0	1.0247	0.00
41)	C240 Ethylbenzene	16.86	0.00	--	106.0	0	.5033	0.00
42)	CXXX Xylenes (p)	17.25	0.00	--	106.0	0	.6411	0.00
43)	CXXX Xylenes (o)	18.41	18.44	.03	106.0	1063	.5984	.27
44)	C245 Styrene	18.48	18.46	.02	104.0	1056	1.0632	.15
45)	C225 1,1,2,2-Tetrachloroe	20.66	0.00	--	83.0	0	.5937	0.00
46)	CS10 Bromofluorobenzene	20.06	20.07	.01	95.0	236446	.7690	46.94
47)	C335 Dichlorobenzene (m)	23.65	23.62	.03	146.0	5037	.9065	.95
48)	6)D C335 Dichlorobenzene (m)	23.65	23.92	.27	146.0	5480	.9065	.92
49)	7)D C340 Dichlorobenzene (p)	23.97	23.62	.35	146.0	5037	.8310	.93
50)	7) C340 Dichlorobenzene (p)	23.97	23.92	.05	146.0	5480	.8310	1.01
51)	C350 Dichlorobenzene (o)	25.00	25.00	.00	146.0	5480	.8310	1.01

000295

Internal Standard Comparison

Sample: 192910 Date injected: 10/11/91 Standard: 82939 ✓

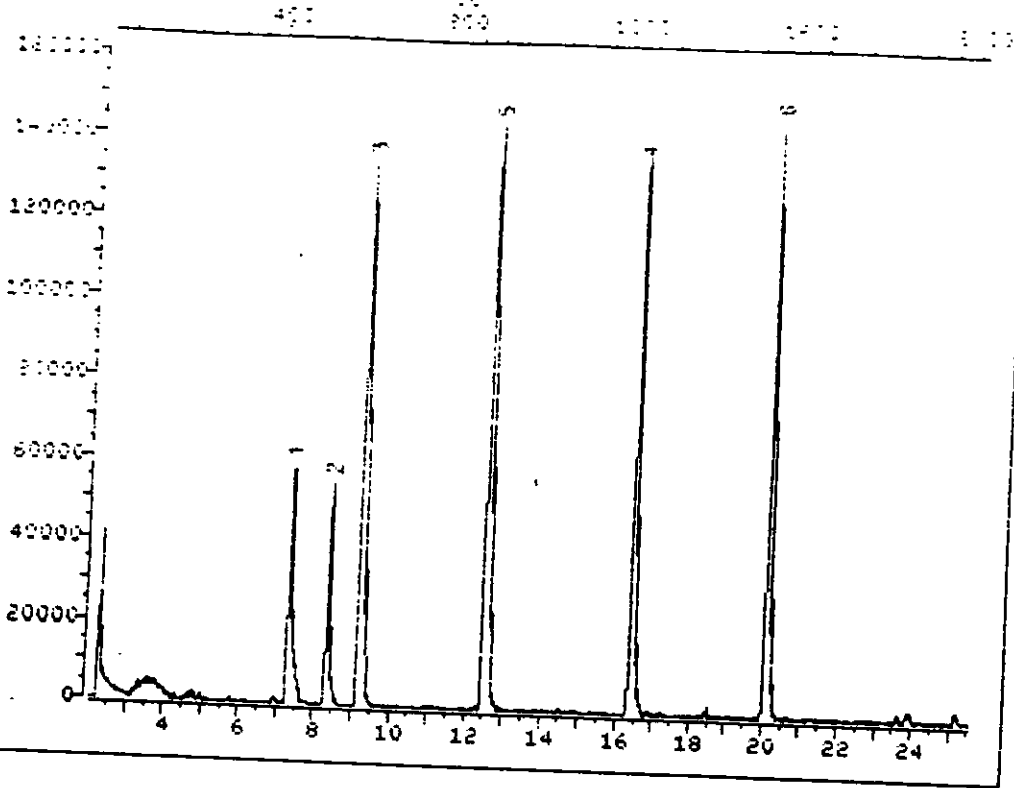
Internal Standard	Sample Area	Std Area	%
C101 Bromochloromethane	65228	66141	98.6
C110 1,4-Difluorobenzene	402183	387963	103.7 ✓
C120 05-Chlorobenzene	327566	316340	103.5

% = (Sample Area/Std Area)*100

* Area outside limits

100% CHROMATOGRAM

File F2910 35.0-300.0 min. MEQ-5ML



Data File: >F2910::D6
Name: MEQH 5ML
Misc: U6 C1

Quant Output File: ^F2910::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37
Last Qcal Time: 911011 21:51

Operator ID: KERYLYNN
Quant Time : 911012 02:17
Injected at: 911011 22:50

QUANT REPORT

Page 1

Operator ID: KERP/LANN
 Output File: >F0910::07
 Data File: >F0910::06
 Name: MEDH 5ML
 Misc: U6 C1

Quant Path: " Quant Time: 9/10/11 21:57
 Printed at: 9/10/11 21:56
 Dilution Factor: 1.0000
 Instrument ID: 06

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 EPDQ/ENSECO

Last Calibration: 9/08/14 09:37

Last Qual Time: 9/10/11 21:51

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.28	128.0		65228	50.00	UG/L	72
9) C030 Methylene Chloride	4.97	84.0		1594	.627	UG/L	81
18) CS15 D4-1,2-dichloroethane	8.31	65.0		123026	48.73	UG/L	87
19) *CI10 1,4-Difluorobenzene	9.17	114.0		402183	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.40	117.0		327566	50.00	UG/L	100
34) CS05 D8-Toluene	12.50	98.0		393208	50.03	UG/L	94
35) C205 4-Methyl-2-pentanone	12.28	43.0		4004	1.71	UG/L	70
36) C230 Toluene	12.67	92.0		1537	.276	UG/L	49
42) CXXX Xylenes (o)	14.52	43.0		1587	.945	UG/L	93
43) C245 Styrene	18.44	106.0		1063	.271	UG/L	98
45) CS10 Bromofluorobenzene	18.46	104.0		1056	.152	UG/L	100
46) C335 Dichlorobenzene (m)	20.07	95.0		236446	46.94	UG/L	75
47) C340 Dichlorobenzene (p)	23.62	146.0		5037	.848	UG/L	100
48) C350 Dichlorobenzene (o)	23.92	146.0		5480	1.01	UG/L	100
49) C250 Xylenes (total)	25.16	146.0		7023	1.25	UG/L	100
	18.44	106.0		1063	.283	UG/L	22

* Compound is ISTD

000300

Data Reduced by : DC Date: 10/19/11
Data Reviewed by : W Date: 10/19/11

Data File: 40211

Enveda TSP Report Page 11

Sample: MICH 8M
Conditions: He CI

Run Factor: 1.5
Analyst: KERRY LIND

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

NO UNKS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK06

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828

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

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
110-75-8	-----2-Chloroethylvinylether	10	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK06

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: BLANK06
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

* - Compound is an Internal Standard
 * - Compound Identified

624-A

L- 100691V6A
 R- 100991V6A

7F2828
 mecl2

Reduced by: 10 Date: 100991
 Re-analyzed by: ND Date: 101491

Data File: F0228
 Page: 1

Enseco Mass Spectrometry
 Target Compound Data Summary Sheet

Sample: MBLK nd 5ML
 Prep: 46, CH02, 5UL IS/S
 Injected: 10/09/91 11:16
 Analyst: KERYLYNN
 ID File: MOBID6
 Quant list threshold: 1.00

Units: UG/L
 Run Factor: 1.000
 Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2540	102	76 114
CS05 D8-Toluene	.2500	.2425	97.0	88 110
CS10 Bromofluorobenzene	.2500	.2474	99.0	86 115

Target Compounds: MOBID6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/L	
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
256	3.449	3.4	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

Scan #	Concentration Quant list UG/L	Sample UG/L	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
882	2.72 Sng	2.7	C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

Diagnostic Client Report

Sample File: F0928::Co Injected at: 11:16 12 28 91
 Sample : 11:27 16:09 91
 SE File : N0E1Co::MT Calibrated : 09:37 06 14 91

Compound	- P.T. Info -			Ion	Area	PF	Conc.
	Pred	Found	Dif				
1) *C101 Bromochloromethane	7.33	7.29	.04	128.0	75116	1.0000	50.00
2) C010 Chloromethane	2.72	0.00	--	50.0	0	1.3276	0.00
3) C020 Vinyl Chloride	2.86	0.00	--	62.0	0	1.3500	0.00
4) C015 Bromomethane	3.26	0.00	--	94.0	0	1.2156	0.00
5) C025 Chloroethane	3.39	0.00	--	64.0	0	.5022	0.00
6) C045 1,1-Dichloroethene	4.36	0.00	--	96.0	0	1.5071	0.00
7) C035 Acetone	4.42	0.00	--	43.0	0	.1843	0.00
8) C040 Carbon Disulfide	4.66	0.00	--	76.0	0	4.4340	0.00
9) C030 Methylene Chloride	5.00	4.99	.01	84.0	9327	1.7999	3.45
10) CXXX Tert-butyl alcohol	5.14	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.38	0.00	--	96.0	0	1.8441	0.00
12) C055 Cis-1,2-dichloroethe	6.90	0.00	--	96.0	0	1.9832	0.00
13) CXXX Methyl tert-butyl et	5.38	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	6.00	0.00	--	63.0	0	3.5329	0.00
15) C060 Chloroform	7.44	0.00	--	83.0	0	3.7902	0.00
16) C065 1,2-Dichloroethane	8.46	0.00	--	62.0	0	2.1737	0.00
17) C110 2-Butanone	6.92	0.00	--	72.0	0	.1091	0.00
18) CS15 D4-1,2-dichloroethan	8.32	8.34	.02	65.0	119894	1.5708	50.81
19) *C110 1,4-Difluorobenzene	9.23	9.19	.04	114.0	403435	1.0000	50.00
20) C125 Vinyl Acetate	6.07	0.00	--	43.0	0	.6048	0.00
21) C115 1,1,1-Trichloroethan	7.76	0.00	--	97.0	0	.5974	0.00
22) C120 Carbon Tetrachloride	8.06	0.00	--	117.0	0	.4898	0.00
23) C165 Benzene	8.45	8.43	.01	78.0	1105	.9908	.14
24) C150 Trichloroethene	9.71	0.00	--	130.0	0	.4258	0.00
25) C140 1,2-Dichloropropane	10.19	0.00	--	63.0	0	.4057	0.00
26) C130 Bromodichloromethane	10.81	0.00	--	83.0	0	.6001	0.00
27) C175 2-Chloroethylvinylet	11.53	0.00	--	63.0	0	.1776	0.00
28) C143 Cis-1,3-Dichloroprop	11.86	0.00	--	75.0	0	.5829	0.00
29) C172 Trans-1,3-dichloropr	13.25	0.00	--	75.0	0	.4482	0.00
30) C160 1,1,2-Trichloroethan	13.73	0.00	--	97.0	0	.2952	0.00
31) C155 Dibromochloromethane	14.76	0.00	--	129.0	0	.4676	0.00
32) C180 Bromoform	18.92	0.00	--	173.0	0	.2627	0.00
33) *C120 D5-Chlorobenzene	16.44	16.44	.00	117.0	322976	1.0000	50.00
34) CS05 D8-Toluene	12.55	12.52	.03	98.0	406752	1.2981	48.51
34)D CS05 D8-Toluene	12.55	12.87	.32	98.0	1520	1.2981	.18
35) C205 4-Methyl-2-pentanone	12.31	12.27	.03	43.0	5738	.3240	2.74
36) C230 Toluene	12.70	12.71	.00	92.0	2358	.9048	.40
37) C210 2-Hexanone	14.51	0.00	--	43.0	0	.2131	0.00
38) C220 Tetrachloroethane	14.12	0.00	--	164.0	0	.4676	0.00
39) C235 Chlorobenzene	16.51	16.52	.01	112.0	3421	1.0869	.49
40) C240 Ethylbenzene	16.90	17.26	.36	106.0	1951	.5461	.55
41) CXXX Xylenes (p)	17.26	17.26	.00	106.0	1951	.6696	.45
42) CXXX Xylenes (o)	18.46	0.00	--	106.0	0	.6363	0.00
43) C245 Styrene	18.50	18.51	.01	104.0	3990	1.1149	.55
44) C225 1,1,2,2-Tetrachloroe	20.67	20.68	.01	83.0	2048	.5730	.55
45) CS10 Bromofluorobenzene	20.09	20.11	.02	95.0	228063	.7136	49.47
46) C335 Dichlorobenzene (m)	23.64	23.70	.06	146.0	3302	.9378	.55
46)D C335 Dichlorobenzene (m)	23.64	24.00	.36	146.0	3681	.9378	.61
47)D C335 Dichlorobenzene (m)	23.64	23.70	.06	146.0	3302	.9378	.60

000306

Internal Standard Comparison

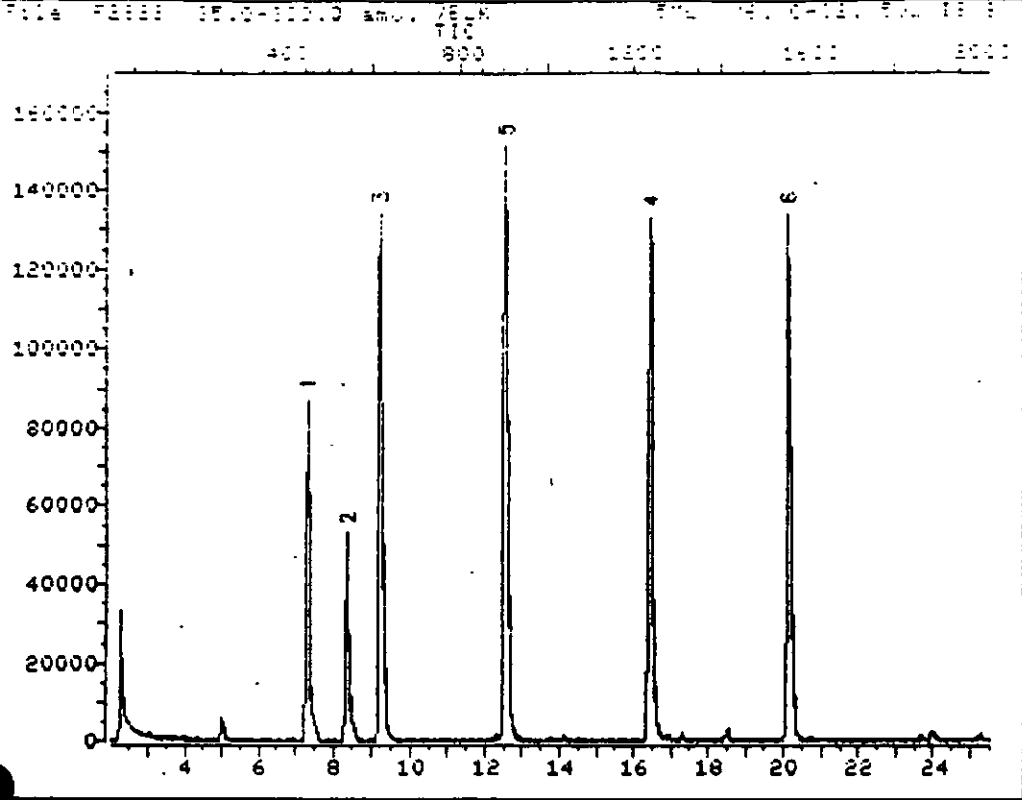
Sample: F2928 Date injected: 10-09-91 Standard: F1117 ✓

Internal Standard	Sample Area	Std Area	%
1101 Bromochloromethane	75116	75510	99.5
1119 1,4-Difluorobenzene	403435	407250	99.1
1120 O5-Chlorobenzene	322976	308421	104.7

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2828::D6
Name: UBLK -06 5ML
Misc: U6, CH02, 5UL IS/S

Quant Output File: ^F2828::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911009 10:28

Operator ID: KERYLYNN
Quant Time : 911009 11:43
Injected at: 911009 11:16

QUANT REPORT

Page 1

Operator ID: KERYL MN
 Input File: F2229:07
 Data File: F2229:06
 Name: MBLK -OL 5ML
 Misc: M6, CH02, SUL IS S

Quant Report: Plant Time: 911009 11:25
 Injected at: 911009 11:16
 Dilution Factor: 1.00000
 Instrument ID: M6

ID File: MOBID6:MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCONENSECO

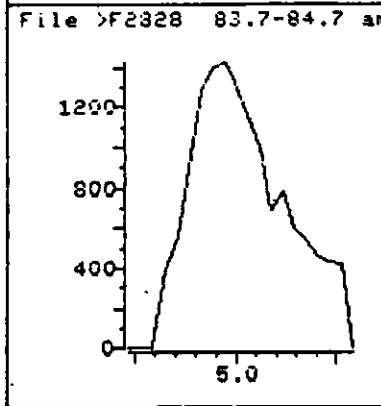
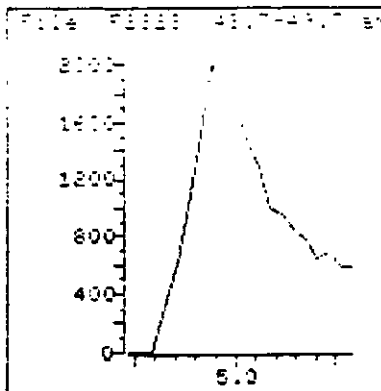
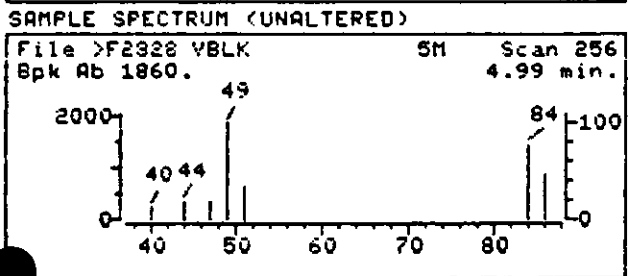
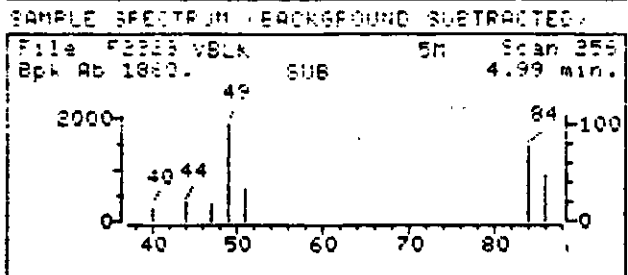
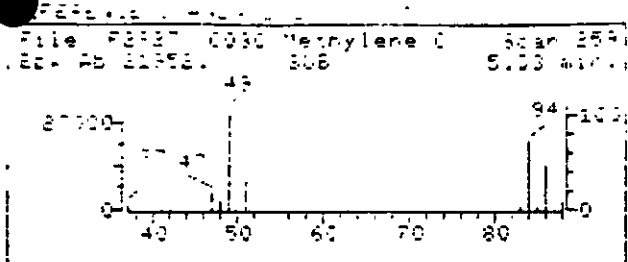
Last Calibration: 910814 09:37

Last Qual Time: 911009 10:25

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.29	128.0		75116	50.00	UG/L	68
9)	C030 Methylene Chloride	4.99	84.0		9327	3.45	UG/L	85
18)	CS15 D4-1,2-dichloroethane	8.34	65.0		119894	50.81	UG/L	89
19)	*CI10 1,4-Difluorobenzene	9.19	114.0		403435	50.00	UG/L	100
23)	C165 Benzene	8.43	78.0		1105	.138	UG/L	100
33)	*CI20 D5-Chlorobenzene	16.44	117.0		322976	50.00	UG/L	100
34)	CS05 D8-Toluene	12.52	98.0		406752	48.51	UG/L	93
35)	C205 4-Methyl-2-pentanone	12.27	43.0		5738	2.74	UG/L	95
36)	C230 Toluene	12.71	92.0		2358	.403	UG/L	75
37)	C235 Chlorobenzene	16.52	112.0		3421	.487	UG/L	85
38)	C240 Ethylbenzene	17.26	106.0		1951	.553	UG/L	78
41)	CXXX Xylenes (p)	17.26	106.0		1951	.451	UG/L	94
43)	C245 Styrene	18.51	104.0		3990	.554	UG/L	100
44)	C225 1,1,2,2-Tetrachloroethane	20.68	83.0		2048	.553	UG/L	87
45)	CS10 Bromofluorobenzene	20.11	95.0		228063	49.47	UG/L	66
46)	C335 Dichlorobenzene (m)	23.70	146.0		3302	.545	UG/L	100
47)	C340 Dichlorobenzene (p)	24.00	146.0		3681	.672	UG/L	100
48)	C350 Dichlorobenzene (o)	25.26	146.0		3675	.676	UG/L	100
49)	C250 Xylenes (total)	17.26	106.0		1646	.400	UG/L	60

* Compound is ISTD

000309



Data File: >F2828::D6
Name: VBLK *α* 5ML
Misc: U6, CH02, 5UL IS/S
Quant Time: 911009 11:43
Injected at: 911009 11:16
Last Qcal Time: 911009 10:28

Quant Output File: ^F2828::D7
Instrument ID: U6

Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 9
Compound Name : C030 Methylene Chloride
Scan Number : 256
Retention Time: 4.99 min.
Quant Ion : 84.0
Area : 9327
Concentration : 3.45 UG/L
q-value : 85

Date Reduced by : JG Date: 100991
Data Reviewed by : m Date: 0149

Data File: F2928

Enseco TIC Report (page 1)

Sample: 1BLK - α 5ML
Conditions: 06. 0F02, 5UL 15/5

Run Factor: 1.00
Analyst: KERYLYNN

# Scan	D	C	Concentration In Sample (UG/L)	CAS #	Compound
--------	---	---	--------------------------------------	-------	----------

no unknowns

Versar Laboratories

**ANALYTICAL DATA PACKAGE
General Chemistry Section**

**CLIENT: ENSECO-ERCO LAB
SITE: PROJ# 10135
CODE-BATCH: ERCO - 7
CONTROL #: 5618
DATE: 22-OCT-91
ANALYSIS: TOC**

Versar Laboratories

ANALYTICAL NARRATIVE General Chemistry Section

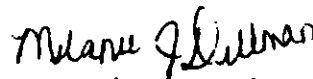
DATE: 22-OCT-91
CODE/CONTROL: ERCO / 5618
CLIENT/SITE: ENSECO-ERCO LAB / PROJ# 10135
PROJECT/BATCH: 420.2 / 7

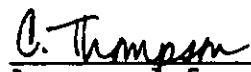
This task consisted of four soil samples which were analyzed for total organic carbon (TOC) using a Perkin-Elmer Elemental Analyzer, model #2400. Prior to analysis, air-dried sample aliquots were acidified and heated to remove inorganic carbon. Sample results have been reported on an oven-dried basis.

Samples were received October 8, 1991 and were analyzed October 21. No analytical or quality assurance problems were encountered. Check standard recoveries were within acceptable limits, and blank results were below method detection limits. Duplicate and spike analyses were not required.

Release of this data has been authorized by laboratory management.

Sincerely,


Melanie J. Dillman
General Chemistry Section



Approved for Release
Chris Thompson, Section Chief

Versar Laboratories

ANALYSIS REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91
CODE / CONTROL #: ERCO / 5618
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10135
PROJECT / BATCH: 420.2.0 / 7

PAGE: 1

Lab#	Field #	TOC (mg/kg)		
63653	UCC-SB-13-3C	5,500.		
63654	UCC-SB-17-4	861.		
63655	UCC-SB-A-08-3	10,400.		
63656	UCC-SB-B-12-3	7,460.		

C. Thompson
Laboratory Manager

2

Versar Laboratories

QUALITY ASSURANCE REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91
CONTROL #: 5618
CODE / BATCH: ERCO / 7
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10135
JOB NUMBER: 420.2.0

TOC

BLANK ANALYSIS / METHOD DETECTION LIMIT

<u>OC Name</u>	<u>OC Type</u>	<u>Result</u>	<u>Units</u>
CALIBRATION BLANK	CB1	<100	mg/kg
DETECTION LIMIT	MDL1	100	mg/kg
REAGENT BLANK	RB1	<100	mg/kg

INITIAL CALIBRATION VERIFICATION

<u>Source</u>	<u>OC Type</u>	<u>True</u>	<u>Found</u>	<u>Recovery</u>	<u>Units</u>
KHP	ICV1	470500	460000	98%	mg/kg

CONTINUING CALIBRATION VERIFICATION

<u>Source</u>	<u>OC Type</u>	<u>True</u>	<u>Found</u>	<u>Recovery</u>	<u>Units</u>
KHP	CCV1	470500	466000	99%	mg/kg

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-13-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-01

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 15 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 20

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	29000	U
74-83-9-----	Bromomethane	29000	U
75-01-4-----	Vinyl Chloride	29000	U
75-00-3-----	Chloroethane	29000	U
75-09-2-----	Methylene Chloride	30000	B
67-64-1-----	Acetone	29000	U
75-15-0-----	Carbon Disulfide	14000	U
75-35-4-----	1,1-Dichloroethene	14000	U
75-34-3-----	1,1-Dichloroethane	14000	U
540-59-0-----	1,2-Dichloroethene (total)	14000	U
67-66-3-----	Chloroform	14000	U
107-06-2-----	1,2-Dichloroethane	14000	U
78-93-3-----	2-Butanone	15000	BJ
71-55-6-----	1,1,1-Trichloroethane	7700	J
56-23-5-----	Carbon Tetrachloride	14000	U
108-05-4-----	Vinyl Acetate	29000	U
75-27-4-----	Bromodichloromethane	14000	U
78-87-5-----	1,2-Dichloropropane	14000	U
10061-01-5-----	cis-1,3-Dichloropropene	14000	U
79-01-6-----	Trichloroethene	3300	J
124-48-1-----	Dibromochloromethane	14000	U
79-00-5-----	1,1,2-Trichloroethane	14000	U
71-43-2-----	Benzene	14000	U
10061-02-6-----	trans-1,3-Dichloropropene	14000	U
110-75-8-----	2-Chloroethylvinylether	29000	U
75-25-2-----	Bromoform	14000	U
108-10-1-----	4-Methyl-2-Pentanone	29000	U
591-78-6-----	2-Hexanone	29000	U
127-18-4-----	Tetrachloroethene	14000	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14000	U
108-88-3-----	Toluene	8800	BJ
108-90-7-----	Chlorobenzene	14000	U
100-41-4-----	Ethylbenzene	97000	
100-42-5-----	Styrene	14000	U
1330-20-7-----	Xylene (total)	570000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-13-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-01

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B2989

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 15 Date Analyzed: 10/14/91

Column (pack/cap) CAP Dilution Factor: 20

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	21.25	99000	JN
2.	Unknown	22.41	280000	JN
3.	C3-benzene isomer	23.04	24000	JN
4.	Unknown	23.50	35000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-17-4

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1400	U
74-83-9	Bromomethane	1400	U
75-01-4	Vinyl Chloride	1400	U
75-00-3	Chloroethane	1400	U
75-09-2	Methylene Chloride	690	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	690	U
75-35-4	1,1-Dichloroethene	690	U
75-34-3	1,1-Dichloroethane	690	U
540-59-0	1,2-Dichloroethene (total)	690	U
67-66-3	Chloroform	690	U
107-06-2	1,2-Dichloroethane	690	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	690	U
56-23-5	Carbon Tetrachloride	690	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	690	U
78-87-5	1,2-Dichloropropane	690	U
10061-01-5	cis-1,3-Dichloropropene	690	U
79-01-6	Trichloroethene	690	U
124-48-1	Dibromochloromethane	690	U
79-00-5	1,1,2-Trichloroethane	690	U
71-43-2	Benzene	690	U
10061-02-6	trans-1,3-Dichloropropene	690	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	690	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	690	U
79-34-5	1,1,2,2-Tetrachloroethane	690	U
108-88-3	Toluene	690	U
108-90-7	Chlorobenzene	690	U
100-41-4	Ethylbenzene	690	U
100-42-5	Styrene	690	U
1330-20-7	Xylene (total)	690	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-17-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-04

Sample wt/vol: 4.1 (g/mL) G Lab File ID: A3630

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 12 Date Analyzed: 10/19/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-18-5	Decane	20.18	3300	JN
2.	Unknown	21.17	1200	JN
3. 1120-21-4	Undecane	24.30	3000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-08-3

Job Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/08/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	6	U
75-35-4	-----1,1-Dichloroethene	6	U
75-34-3	-----1,1-Dichloroethane	6	U
540-59-0	-----1,2-Dichloroethene (total)	6	U
67-66-3	-----Chloroform	6	U
107-06-2	-----1,2-Dichloroethane	6	U
78-93-3	-----2-Butanone	3	BJ
71-55-6	-----1,1,1-Trichloroethane	3	J
56-23-5	-----Carbon Tetrachloride	6	U
108-05-4	-----Vinyl Acetate	12	U
75-27-4	-----Bromodichloromethane	6	U
78-87-5	-----1,2-Dichloropropane	6	U
10061-01-5	-----cis-1,3-Dichloropropene	6	U
79-01-6	-----Trichloroethene	3	J
124-48-1	-----Dibromochloromethane	6	U
79-00-5	-----1,1,2-Trichloroethane	6	U
71-43-2	-----Benzene	6	U
10061-02-6	-----trans-1,3-Dichloropropene	6	U
110-75-8	-----2-Chloroethylvinylether	12	U
75-25-2	-----Bromoform	6	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	6	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6	U
108-88-3	-----Toluene	6	U
108-90-7	-----Chlorobenzene	6	U
100-41-4	-----Ethylbenzene	6	U
100-42-5	-----Styrene	6	U
1330-20-7	-----Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-08-3

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 10135-06
Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2803
Level: (low/med) LOW Date Received: 10/05/91
% Moisture: not dec. 16 Date Analyzed: 10/08/91
Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	1500	U
74-83-9-----	Bromomethane	1500	U
75-01-4-----	Vinyl Chloride	1500	U
75-00-3-----	Chloroethane	1500	U
75-09-2-----	Methylene Chloride	160	BJ
67-64-1-----	Acetone	1500	U
75-15-0-----	Carbon Disulfide	730	U
75-35-4-----	1,1-Dichloroethene	730	U
75-34-3-----	1,1-Dichloroethane	730	U
540-59-0-----	1,2-Dichloroethene (total)	730	U
67-66-3-----	Chloroform	730	U
107-06-2-----	1,2-Dichloroethane	730	U
78-93-3-----	2-Butanone	1500	U
71-55-6-----	1,1,1-Trichloroethane	660	J
56-23-5-----	Carbon Tetrachloride	730	U
108-05-4-----	Vinyl Acetate	1500	U
75-27-4-----	Bromodichloromethane	730	U
78-87-5-----	1,2-Dichloropropane	730	U
10061-01-5-----	cis-1,3-Dichloropropene	730	U
79-01-6-----	Trichloroethene	230	J
124-48-1-----	Dibromochloromethane	730	U
79-00-5-----	1,1,2-Trichloroethane	730	U
71-43-2-----	Benzene	730	U
10061-02-6-----	trans-1,3-Dichloropropene	730	U
110-75-8-----	2-Chloroethylvinylether	1500	U
75-25-2-----	Bromoform	730	U
108-10-1-----	4-Methyl-2-Pentanone	1500	U
591-78-6-----	2-Hexanone	1500	U
127-18-4-----	Tetrachloroethene	730	U
79-34-5-----	1,1,2,2-Tetrachloroethane	730	U
108-88-3-----	Toluene	410	J
108-90-7-----	Chlorobenzene	730	U
100-41-4-----	Ethylbenzene	4700	
100-42-5-----	Styrene	730	U
1330-20-7-----	Xylene (total)	31000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2880

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/10/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	7700	JN
2.	124-18-5 Decane	21.70	1700	JN
3.	Unknown	22.05	11000	JN
4.	C3-benzene isomer	22.79	1900	JN
5.	Unknown	23.16	1500	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-12-3RE

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919

Level: (low/med) MED Date Received: 10/05/91

% Moisture: not dec. 16 Date Analyzed: 10/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl Chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene Chloride	730	U
67-64-1	Acetone	1500	U
75-15-0	Carbon Disulfide	730	U
75-35-4	1,1-Dichloroethene	730	U
75-34-3	1,1-Dichloroethane	730	U
540-59-0	1,2-Dichloroethene (total)	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
78-93-3	2-Butanone	1500	U
71-55-6	1,1,1-Trichloroethane	730	U
56-23-5	Carbon Tetrachloride	730	U
108-05-4	Vinyl Acetate	1500	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	730	U
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
110-75-8	2-Chloroethylvinylether	1500	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-Pentanone	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U
108-88-3	Toluene	730	U
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	410	J
100-42-5	Styrene	730	U
1330-20-7	Xylene (total)	4900	U

000099

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-12-3RE

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 10135-08RE
 Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2919
 Level: (low/med) MED Date Received: 10/05/91
 % Moisture: not dec. 16 Date Analyzed: 10/12/91
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	5200	JN
2. 124-18-5	Decane	21.68	1600	JN
3.	Unknown	22.05	8200	JN
4.	C9H12 isomer	22.69	1300	JN
5.	Unknown	23.13	1000	JN
6.	C4-benzene isomer	25.19	790	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-4-QA1

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 10135-09

Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835

Level: (low/med) LOW Date Received: 10/05/91

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 0.80

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-4-QA1

Site Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 10135-09
Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2835
Level: (low/med) LOW Date Received: 10/05/91
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981

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

% Moisture: not dec. 0 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	1200	U
74-83-9	-----Bromomethane	1200	U
75-01-4	-----Vinyl Chloride	1200	U
75-00-3	-----Chloroethane	1200	U
75-09-2	-----Methylene Chloride	620	J
67-64-1	-----Acetone	1200	U
75-15-0	-----Carbon Disulfide	620	U
75-35-4	-----1,1-Dichloroethene	620	U
75-34-3	-----1,1-Dichloroethane	620	U
540-59-0	-----1,2-Dichloroethene (total)	620	U
67-66-3	-----Chloroform	620	U
107-06-2	-----1,2-Dichloroethane	620	U
78-93-3	-----2-Butanone	610	J
71-55-6	-----1,1,1-Trichloroethane	620	U
56-23-5	-----Carbon Tetrachloride	620	U
108-05-4	-----Vinyl Acetate	1200	U
75-27-4	-----Bromodichloromethane	620	U
78-87-5	-----1,2-Dichloropropane	620	U
10061-01-5	-----cis-1,3-Dichloropropene	620	U
79-01-6	-----Trichloroethene	620	U
124-48-1	-----Dibromochloromethane	620	U
79-00-5	-----1,1,2-Trichloroethane	620	U
71-43-2	-----Benzene	620	U
10061-02-6	-----trans-1,3-Dichloropropene	620	U
110-75-8	-----2-Chloroethylvinylether	1200	U
75-25-2	-----Bromoform	620	U
108-10-1	-----4-Methyl-2-Pentanone	1200	U
591-78-6	-----2-Hexanone	1200	U
127-18-4	-----Tetrachloroethene	620	U
79-34-5	-----1,1,2,2-Tetrachloroethane	620	U
108-88-3	-----Toluene	360	J
108-90-7	-----Chlorobenzene	620	U
100-41-4	-----Ethylbenzene	620	U
100-42-5	-----Styrene	620	U
1330-20-7	-----Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK01
Sample wt/vol: 4.0 (g/mL) G Lab File ID: B2981
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/14/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3627

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

% Moisture: not dec. 0 Date Analyzed: 10/19/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	1200 U
74-83-9	Bromomethane	1200 U
75-01-4	Vinyl Chloride	1200 U
75-00-3	Chloroethane	1200 U
75-09-2	Methylene Chloride	620 U
67-64-1	Acetone	1200 U
75-15-0	Carbon Disulfide	620 U
75-35-4	1,1-Dichloroethene	620 U
75-34-3	1,1-Dichloroethane	620 U
540-59-0	1,2-Dichloroethene (total)	620 U
67-66-3	Chloroform	620 U
107-06-2	1,2-Dichloroethane	620 U
78-93-3	2-Butanone	530 J
71-55-6	1,1,1-Trichloroethane	620 U
56-23-5	Carbon Tetrachloride	620 U
108-05-4	Vinyl Acetate	1200 U
75-27-4	Bromodichloromethane	620 U
78-87-5	1,2-Dichloropropane	620 U
10061-01-5	cis-1,3-Dichloropropene	620 U
79-01-6	Trichloroethene	620 U
124-48-1	Dibromochloromethane	620 U
79-00-5	1,1,2-Trichloroethane	620 U
71-43-2	Benzene	620 U
10061-02-6	trans-1,3-Dichloropropene	620 U
110-75-8	2-Chloroethylvinylether	1200 U
75-25-2	Bromoform	620 U
108-10-1	4-Methyl-2-Pentanone	1200 U
591-78-6	2-Hexanone	1200 U
127-18-4	Tetrachloroethene	620 U
79-34-5	1,1,2,2-Tetrachloroethane	130 J
108-88-3	Toluene	130 J
108-90-7	Chlorobenzene	620 U
100-41-4	Ethylbenzene	620 U
100-42-5	Styrene	620 U
1330-20-7	Xylene (total)	620 U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK02
Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3627
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/19/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798

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

% Moisture: not dec. 0 Date Analyzed: 10/08/91

Column: (pack/cap) CAP Dilution Factor: 0.80

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG 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	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	6	J
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
108-05-4-----	Vinyl Acetate	10	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
110-75-8-----	2-Chloroethylvinylether	10	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Site Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK03
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2798
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/08/91
Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK06

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828

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

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK06

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10135 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2828

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

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



October 25, 1991

Mr. John O'Donnell
Balsam Environmental Consultants, Inc.
5 Industrial Way
Salem, NH 03079

Dear John:

Enclosed are the results of the analyses for UCC Soil Analysis October 1991 (UCC Soil Analysis 10/08/91). This project was received at Enseco - Erco Laboratory on October 8, 1991, and was processed for a 21 day turnaround time and in accordance with CLP analyses and reporting protocols, where applicable. This letter authorizes the release of the analytical results and should be considered an integral part of this report.

Please refer to this project by the Enseco project number 010147 to expedite any further discussions. I will be happy to address any questions or concerns that you may have.

Sincerely,

A handwritten signature in cursive script that reads "Mary B. Ford".

Mary Ford
Program Administrator

Encl.

SAMPLE DATA SUMMARY PACKAGE

April 1990

DELIVERABLES INDEX

Client: Baker Environmental Consultants, Inc.
 Project Name: UCC Soil Analysis October 1981
 Erco Project Number: 10147

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2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>N/A</u>
3. Erco Method Blank Summary (Form IV)	<u>4</u>
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April 1990

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Client: Babson Environmental Consultants
Project Name: WCC Soil Analysis October 1981
Erco Project Number: 1047

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A. QC Summary	
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2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	
3. Erco Method Blank Summary (Form IV)	
4. GC/MS Tuning and Mass Calibration Summary (Form V)	
B. Sample Data (Form I, Form I-TIC, and Raw Data)	
C. Standards Data	
1. Initial Calibration Data (Form VI)	
2. Initial Calibration Standard Chromatograms	
3. Continuing Calibration Data (Form VII)	
4. Continuing Calibration Standard Chromatograms	
5. Internal Standard Area Summary (Form VIII)	
D. Raw QC Data	
1. DFTPP Bar Graph and Mass Listing	
2. Erco Blank Data	
3. Matrix Spike/Matrix Spike Duplicate Data	
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A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	NA
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	
3. Erco Method Blank Summary (Form IV)	
B. Sample Data (Form I and Raw Data)	

DELIVERABLES INDEX (Cont.)

Client: Baker Environmental Consultants, Inc.
Project Name: UCC Soil Analysis October 1991
Erco Project Number: 10147

Pages

IV. PESTICIDES/PCBs DATA (Cont.)

C. Standards Data

1. Pesticides Evaluation Standards Summary (Form VIII)
2. Pesticides/PCBs Standards Summary (Form IX)
3. Pesticides/PCBs Identification (Form X)
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D. Raw QC Data

1. Erco Blank Data
2. Matrix Spike/Matrix Spike Duplicate Data

V. INORGANIC DATA

VI. METALS DATA (AQUEOUS)

VII. METALS DATA (SOLID)

VIII. TOC

NA
↓
1-3

October 25, 1991

Case Narrative

Client: Balsam Environmental Consultants, Inc.
Project Name: UCC Soil Analysis 10/08/91
Erco Project No.: 010147

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 8, 1991. Please see the sample description information sheet for a list of samples.
2. Temperature of cooler was upon receipt was 6.0c.
Bottles were not broken in transit.
Bottles were properly labeled.
Samples agree with chain-of-custody.
Samples were properly preserved.
VOA vials were properly preserved.
VOA vials did not contain headspace.

SAMPLE DESCRIPTION INFORMATION
for
Balsam Environmental Consultants, Inc.

Lab ID	Client ID	Matrix	Sampled		Received Date
			Date	Time	
010147-0001-SA	UCC-SB-A-12-4	SOIL	07 OCT 91	11:10	08 OCT 91
010147-0002-SA	UCC-10/7-QA3	AQUEOUS	07 OCT 91	11:30	08 OCT 91
010147-0003-SA	UCC-10/7-QA2	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0004-SA	UCC-SB-B-19-4	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0005-SA	UCC-SB-B-19-4	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0006-SA	UCC-SB-A-12-4C	SOIL	07 OCT 91	11:10	08 OCT 91
010147-0007-SA	UCC-10/7-QA1	AQUEOUS	07 OCT 91		08 OCT 91

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 1 of 2)

ID	Manufacturer	Model	Data System
GC/MS #S-1	Finnigan	4530	INCOS
GC/MS #S-2	Finnigan	4615B	INCOS
GC/MS #S-3	Finnigan	4530	INCOS
GC/MS #V-5	Hewlett Packard	MSD	RTE-A
GC/MS #V-6	Hewlett Packard	MSD	RTE-A
GC/MS #S-6	Finnigan	Incos 50	Incos
GC/MS #V1*	Hewlett Packard	5996	RTE-6
GC/MS #V2*	Hewlett Packard	5996	RTE-6
GC/MS #V3*	Hewlett Packard	5996	RTE-6
GC/MS #V4*	Hewlett Packard	5985	RTE-6
GC/HECD #G2*	Hewlett Packard/OIC	5890/4420	HP-1000
GC/HECD/PID #G4*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/HECD/PID #G5*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/ECD #9-1	Hewlett Packard	5880	VG-3
GC/ECD #9-2	Hewlett Packard	5880	VG-4
GC/ECD #11-1	Hewlett Packard	5890	VG-1
GC/ECD #11-2	Hewlett Packard	5890	VG-2
GC/ECD #7-1	Hewlett Packard	5880	VG-11
GC/ECD #7-2	Hewlett Packard	5880	VG-12
GC/ECD #14-1	Hewlett Packard	5890 Series II	VG-15
GC/ECD #14-2	Hewlett Packard	5890 Series II	VG-16
GC/ECD #15-1	Hewlett Packard	5890 Series II	VG-13
GC/ECD #15-2	Hewlett Packard	5890 Series I	VG-14

*Purge-and-trap concentrators manufactured by Tekmar Company.

Sample Analysis Instrumentation Key for Organics (Page 2 of 2)

ID	Manufacturer	Model	Data System
GC/ECD #12-1	Hewlett Packard	5890	VG-9
GC/FID #19	Hewlett Packard	5880	Beckman/HP-1000
GC/FID #28	Hewlett Packard	5890	Beckman/HP-1000
GC/PID #28	HNU Systems	P152	Beckman/HP-1000
GC/ECD #12-2	Hewlett Packard	5890	VG-10
IR1	Perkin-Elmer	FTIR 1600	Beckman/HP-1000
GC/FID #14	Hewlett Packard	5880	Beckman/HP-1000

*Purge-and-trap concentrators manufactured by Tekmar Company.

INSTRUMENT DETECTION LIMITS

Volatile Compounds

Hewlett-Packard 5996 GC/MS V1, V2, V3, V4, V5, S4, S5

<u>CAS Number</u>	<u>Parameter</u>	<u>ng</u>
74-87-3	Chloromethane	2 μ
74-83-9	Bromomethane	2 μ
75-01-4	Vinyl chloride	2 μ
75-00-3	Chloroethane	2 μ
75-09-2	Methylene chloride	2 μ
67-64-1	Acetone	2 μ
75-15-0	Carbon disulfide	1 μ
75-35-4	1,1-Dichloroethene	1 μ
75-34-3	1,1-Dichloroethane	1 μ
156-60-5	trans-1,2-Dichloroethene	1 μ
67-66-3	Chloroform	1 μ
107-06-2	1,2-Dichloroethane	1 μ
78-93-3	2-Butanone	1 μ
71-55-6	1,1,1-Trichloroethane	1 μ
56-23-5	Carbon tetrachloride	1 μ
108-05-4	Vinyl acetate	2 μ
75-27-4	Bromodichloromethane	1 μ
79-34-5	1,1,2,2-Tetrachloroethane	1 μ
78-87-5	1,2-Dichloropropane	1 μ
10061-02-6	trans-1,3-Dichloropropene	1 μ
79-01-6	Trichloroethene	1 μ
124-48-1	Dibromochloromethane	1 μ
79-00-5	1,1,2-Trichloroethane	1 μ
71-43-2	Benzene	1 μ
10061-01-5	cis-1,3-Dichloropropene	1 μ
110-75-8	2-Chloroethylvinylether	2 μ
75-25-2	Bromoform	1 μ
591-78-6	2-Hexanone	2 μ
108-10-1	4-Methyl-2-pentanone	2 μ
127-18-4	Tetrachloroethene	1 μ
108-88-3	Toluene	1 μ
108-90-7	Chlorobenzene	1 μ
100-41-4	Ethylbenzene	1 μ
100-42-5	Styrene	1 μ
	Total xylenes	1 μ

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

a - Fluorophenol	Surrogate standard
b - d ₅ -Phenol	Surrogate standard
c - d ₄ -2-Chlorophenol	Surrogate standard
d - d ₄ -Dichlorobenzene	Internal standard
e - d ₄ -1,2-Dichlorobenzene	Surrogate standard
f - d ₅ -Nitrobenzene	Surrogate standard
g - d ₈ -Naphthalene	Internal standard
h - Fluorobiphenyl	Surrogate standard
i - d ₁₀ -Acenaphthene	Internal standard
j - Tribromophenol	Surrogate standard
k - d ₁₀ -Phenanthrene	Internal standard
l - d ₁₄ -ortho-Terphenyl	Surrogate standard
m - d ₁₂ -Chrysene	Internal standard
n - d ₁₂ -Perylene	Internal standard

Volatile Compounds

1 - Bromochloromethane	Internal standard
2 - 1,2-Dichloroethane-d ₄	Surrogate standard
3 - 1,4-Difluorobenzene	Internal standard
4 - Toluene-d ₈	Surrogate standard
5 - Chlorobenzene-d ₅	Internal standard
6 - Bromofluorobenzene	Surrogate standard

CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER
6437 TG

PROJECT NAME

SAMPLER(S) SIGNATURE(S)
[Signature]

SEND REPORT TO:
J. C. D...

PROJECT ADDRESS

ANALYTICAL LABORATORY
EMSECO

METHOD
821

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS							COMMENTS				
											VOC	AGN	PESTICIDES/PCBs	TCL METALS	PP METALS	CYANIDE	TEC					
UCC-SB-A-12-4		10/7/91	1110	S	X		icc	N	40ml vial	3	X										CLP rep...	
UCC-10/7-QA3		10/7	1130	W	X		icc/HCO	N	40ml vial	2	X											
UCC-10/7-QA2		10/7	1115	S	X		icc	N	40ml vial	3	X											CLP rep...
UCC-SB-B-19-4 (NS)		10/7	1115	S	X		icc	N	40ml vial	3	X											CLP rep...
UCC-SB-B-19-4		10/7	1115	S	X		icc	N	40ml vial	1												
UCC-SB-A-12-4		10/7	1110	S	X		icc	N	40ml vial	1												
UCC-10/7-QA1		10/7	-	W			icc/HCO	N	40ml vial	2	X											

RELINQUISHED BY: *[Signature]* DATE: 10/7/91 TIME: 12:00 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED FOR LABORATORY BY: *Eric Halliday* DATE: 10/7/91 TIME: 9:11

METHOD OF SHIPMENT: **FedEx** AIRBILL (OR SHIPPING INVOICE) NUMBER: **3329067727**

7

Enseco -- Erco Laboratory
Internal Chain of Custody
Sample Control Tracking Log

Project Number	Project Acceptance Date	***Laboratory Acceptance Boxes***							
		Metals	Nonmetals	Chrom	Hydro	Semi GC/MS	VOA GC	VOA GC/MS	Data Central
010146	EA 10/8/91							P 10/14/91	
010147	EA 10/8/91							P 10/14/91	TH 10/9
010148	EA 10/11/91						DO 10/11		
010149	TH 10/9/91			AM 10/15/91					
010150									
010151	SHB 10/8/91				ST 10-8	ST 10-8			
010152									
010153	EA 10/8	SRH 10/11/91 1-56							
010154	SHB 10/4						DO 10/10		
010155									
010156									
010157	SHB 10/8				JDL 10-91	JDL 10-91			
010158	EA 10/8				DV 9-10-91	SHB 10-91	CPW 10-9-91		
010159									
010160	MK 10/9/91						CPW 10-9-91		
010161	TH 10/9/91					AM 10/10/91	DO 10/9	P 10/12/91	
010162	TH 10/9/91							100591 TRU	
010163	EA 10/9/91							100591 TRU	TH 10/10
010164									
010165									
010166									
010167									

NOTE: Please sign name and date to confirm laboratory acceptance. Sample Control must highlight the Laboratory Acceptance Box to indicate which laboratories are affected.

**INTERLABORATORY
CHAIN OF CUSTODY**



PA OF

SHIP TO: **VERSAR**

ANALYTICAL REQUESTS

SEND RESULTS TO: **ENSECO-ERCO**

ATTENTION: **CARRY POLLACK**

TRC					

ATTENTION: **MARY FORD**

EXPORT ID

✓ **COMMENTS**

UCC-SB-B-19-4
UCC-SB-A-12-4C

SAMPLE
CONDITION
UPON
RECEIPT

10147-05
10147-06

TEST PRICE	
SUBTOTAL	
DISCOUNT / SURCHARGE	
TOTAL	

WRITTEN RESULTS REQUIRED BY (DATE) **10/28** VERBAL/FAC RESULTS REQUIRED BY (DATE) **10/28** PO No **10147**

Q.C. STANDARD ENSECO CLP PROTOCOL PROJECT SPECIFIC

SAMPLE DISPOSAL ENSECO RETURN TO CLIENT PHONE

DETECTION LIMITS COMMON PRODUCTS OTHER*

HOLDING TIMES ENSECO EPA-CLP IER OTHER*

RAW DATA COPIES NEEDED YES NO

CUSTODY SEALS INTACT YES NO WET WEIGHT DRY WEIGHT

RELINQUISHED DATE / TIME

*SPECIAL INSTRUCTIONS

RECEIVED **[Signature]** DATE / TIME **10-9-91 11:00 AM**

DATA REPORTING QUALIFIERS

The nine EPA-defined qualifers to be used are as follow:

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

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

and df = dilution factor

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

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

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

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/aroclor target analyte when the percent difference between the two GC columns is greater than 25% for detected concentrations (see form X). The lower of the two values is reported on form I and flagged with a P.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do NOT apply this flag. Instead, use a laboratory-defined flag.

DATA REPORTING QUALIFIERS (CONT.)

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale (except as noted in exhibit D), the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

NOTE: For total xylenes where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately (e.g., a diluted analysis is not required for total xylenes unless the concentrations of either peak separately exceed 200 µg/L).

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

The laboratory-defined data reporting qualifiers to be used are as follow:

- X - Indicates that the database has been modified.
- Z - Indicates coelution.

April 1990

DELIVERABLES INDEX

Client: Baker Environmental Consultants Inc.
 Project Name: UCC Soil Analysis October 1981
 Erco Project Number: 10147

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B. Sample Description Information	<u>2</u>
C. Sample Analysis Instrument Key	<u>3</u>
D. Instrument Detection Limits	<u>5</u>
E. Internal and Surrogate Standard Key	<u>6</u>
F. Chain-of-Custody Records	<u>7</u>
G. Data Reporting Qualifiers	<u>10</u>
II. VOLATILES DATA	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	<u>1</u>
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>N/A</u>
3. Erco Method Blank Summary (Form IV)	<u>4</u>
4. GC/MS Tuning and Mass Calibration Summary (Form V)	<u>8</u>
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1. Initial Calibration Data (Form VI)	<u>133</u>
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3. Continuing Calibration Data (Form VII)	<u>181</u>
4. Continuing Calibration Standard Chromatograms	<u>195</u>
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D. Raw QC Data	
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2. Erco Blank Data	<u>221</u>
3. Matrix Spike/Matrix Spike Duplicate Data	<u>N/A</u>

April 1990

DELIVERABLES INDEX (Cont.)

Client: Babson Environmental Consultants
Project Name: UCC Soil Analysis October 1991
Erco Project Number: 1017

Pages

III. SEMIVOLATILES DATA

A. QC Summary

- 1. Surrogate Percent Recovery Summary (Form II)
- 2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)
- 3. Erco Method Blank Summary (Form IV)
- 4. GC/MS Tuning and Mass Calibration Summary (Form V)

B. Sample Data (Form I, Form I-TIC, and Raw Data)

C. Standards Data

- 1. Initial Calibration Data (Form VI)
- 2. Initial Calibration Standard Chromatograms
- 3. Continuing Calibration Data (Form VII)
- 4. Continuing Calibration Standard Chromatograms
- 5. Internal Standard Area Summary (Form VIII)

D. Raw QC Data

- 1. DFTPP Bar Graph and Mass Listing
- 2. Erco Blank Data
- 3. Matrix Spike/Matrix Spike Duplicate Data

N/A
↓

IV. PESTICIDES/PCBs DATA

A. QC Summary

- 1. Surrogate Percent Recovery Summary (Form II)
- 2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)
- 3. Erco Method Blank Summary (Form IV)

B. Sample Data (Form I and Raw Data)

N/A
↓

October 25, 1991

Case Narrative

Client: Balsam Environmental Consultants, Inc.
Project Name: UCC Soil Analysis 10/08/91
Erco Project No.: 010147

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 8, 1991. Please see the sample description information sheet for a list of samples.
2. Temperature of cooler was upon receipt was 6.0c.
Bottles were not broken in transit.
Bottles were properly labeled.
Samples agree with chain-of-custody.
Samples were properly preserved.
VOA vials were properly preserved.
VOA vials did not contain headspace.

SAMPLE DESCRIPTION INFORMATION
for
Balsam Environmental Consultants, Inc.

Lab ID	Client ID	Matrix	Sampled		Received
			Date	Time	Date
010147-0001-SA	UCC-SB-A-12-4	SOIL	07 OCT 91	11:10	08 OCT 91
010147-0002-SA	UCC-10/7-QA3	AQUEOUS	07 OCT 91	11:30	08 OCT 91
010147-0003-SA	UCC-10/7-QA2	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0004-SA	UCC-SB-B-19-4	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0005-SA	UCC-SB-B-19-4	SOIL	07 OCT 91	11:15	08 OCT 91
010147-0006-SA	UCC-SB-A-12-4C	SOIL	07 OCT 91	11:10	08 OCT 91
010147-0007-SA	UCC-10/7-QA1	AQUEOUS	07 OCT 91		08 OCT 91

Enseco - Erco Laboratory

Sample Analysis Instrumentation Key for Organics (Page 1 of 2)

ID	Manufacturer	Model	Data System
GC/MS #S-1	Finnigan	4530	INCOS
GC/MS #S-2	Finnigan	4615B	INCOS
GC/MS #S-3	Finnigan	4530	INCOS
GC/MS #V-5	Hewlett Packard	MSD	RTE-A
GC/MS #V-6	Hewlett Packard	MSD	RTE-A
GC/MS #S-6	Finnigan	Incos 50	Incos
GC/MS #V1*	Hewlett Packard	5996	RTE-6
GC/MS #V2*	Hewlett Packard	5996	RTE-6
GC/MS #V3*	Hewlett Packard	5996	RTE-6
GC/MS #V4*	Hewlett Packard	5985	RTE-6
GC/HECD #G2*	Hewlett Packard/OIC	5890/4420	HP-1000
GC/HECD/PID #G4*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/HECD/PID #G5*	Hewlett Packard/OIC/HNU	5890/4420/PI-52-02	Beckman CALS/ HP-1000
GC/ECD #9-1	Hewlett Packard	5880	VG-3
GC/ECD #9-2	Hewlett Packard	5880	VG-4
GC/ECD #11-1	Hewlett Packard	5890	VG-1
GC/ECD #11-2	Hewlett Packard	5890	VG-2
GC/ECD #7-1	Hewlett Packard	5880	VG-11
GC/ECD #7-2	Hewlett Packard	5880	VG-12
GC/ECD #14-1	Hewlett Packard	5890 Series II	VG-15
GC/ECD #14-2	Hewlett Packard	5890 Series II	VG-16
GC/ECD #15-1	Hewlett Packard	5890 Series II	VG-13
GC/ECD #15-2	Hewlett Packard	5890 Series I	VG-14

*Purge-and-trap concentrators manufactured by Tekmar Company.

Sample Analysis Instrumentation Key for Organics (Page 2 of 2)

ID	Manufacturer	Model	Data System
GC/ECD #12-1	Hewlett Packard	5890	VG-9
GC/FID #19	Hewlett Packard	5880	Beckman/HP-1000
GC/FID #28	Hewlett Packard	5890	Beckman/HP-1000
GC/PID #28	HNU Systems	P152	Beckman/HP-1000
GC/ECD #12-2	Hewlett Packard	5890	VG-10
IR1	Perkin-Elmer	FTIR 1600	Beckman/HP-1000
GC/FID #14	Hewlett Packard	5880	Beckman/HP-1000

*Purge-and-trap concentrators manufactured by Tekmar Company.

INSTRUMENT DETECTION LIMITS

Volatile Compounds

Hewlett-Packard 5996 GC/MS V1, V2, V3, V4, V5, S4, S5

<u>CAS Number</u>	<u>Parameter</u>	<u>ng</u>
74-87-3	Chloromethane	2 μ
74-83-9	Bromomethane	2 μ
75-01-4	Vinyl chloride	2 μ
75-00-3	Chloroethane	2 μ
75-09-2	Methylene chloride	2 μ
67-64-1	Acetone	2 μ
75-15-0	Carbon disulfide	1 μ
75-35-4	1,1-Dichloroethene	1 μ
75-34-3	1,1-Dichloroethane	1 μ
156-60-5	trans-1,2-Dichloroethene	1 μ
67-66-3	Chloroform	1 μ
107-06-2	1,2-Dichloroethane	1 μ
78-93-3	2-Butanone	1 μ
71-55-6	1,1,1-Trichloroethane	1 μ
56-23-5	Carbon tetrachloride	1 μ
108-05-4	Vinyl acetate	2 μ
75-27-4	Bromodichloromethane	1 μ
79-34-5	1,1,2,2-Tetrachloroethane	1 μ
78-87-5	1,2-Dichloropropane	1 μ
10061-02-6	trans-1,3-Dichloropropene	1 μ
79-01-6	Trichloroethene	1 μ
124-48-1	Dibromochloromethane	1 μ
79-00-5	1,1,2-Trichloroethane	1 μ
71-43-2	Benzene	1 μ
10061-01-5	cis-1,3-Dichloropropene	1 μ
110-75-8	2-Chloroethylvinylether	2 μ
75-25-2	Bromoform	1 μ
591-78-6	2-Hexanone	2 μ
108-10-1	4-Methyl-2-pentanone	2 μ
127-18-4	Tetrachloroethene	1 μ
108-88-3	Toluene	1 μ
108-90-7	Chlorobenzene	1 μ
100-41-4	Ethylbenzene	1 μ
100-42-5	Styrene	1 μ
	Total xylenes	1 μ

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

a - Fluorophenol	Surrogate standard
b - d ₅ -Phenol	Surrogate standard
c - d ₄ -2-Chlorophenol	Surrogate standard
d - d ₄ -Dichlorobenzene	Internal standard
e - d ₄ -1,2-Dichlorobenzene	Surrogate standard
f - d ₅ -Nitrobenzene	Surrogate standard
g - d ₈ -Naphthalene	Internal standard
h - Fluorobiphenyl	Surrogate standard
i - d ₁₀ -Acenaphthene	Internal standard
j - Tribromophenol	Surrogate standard
k - d ₁₀ -Phenanthrene	Internal standard
l - d ₁₄ -ortho-Terphenyl	Surrogate standard
m - d ₁₂ -Chrysene	Internal standard
n - d ₁₂ -Perylene	Internal standard

Volatile Compounds

1 - Bromochloromethane	Internal standard
2 - 1,2-Dichloroethane-d ₄	Surrogate standard
3 - 1,4-Difluorobenzene	Internal standard
4 - Toluene-d ₈	Surrogate standard
5 - Chlorobenzene-d ₅	Internal standard
6 - Bromofluorobenzene	Surrogate standard

CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER
6437 T6

PROJECT NAME _____ SAMPLER(S) SIGNATURE(S) *[Signature]* SEND REPORT TO: *J. C. P...*

PROJECT ADDRESS _____ ANALYTICAL LABORATORY: *Enseco* METHOD: *[Diagonal lines]*

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS							COMMENTS	
											VOC	ABN	PESTICIDES/PCBs	TR METALS	PP METALS	CYANIDE	TCC		
UCC-SB-A-12-4		10/7/91	1110	S	X		ice	N	40ml	3	X								CLP 14/...
UCC-10/7-QA3		10/7	1130	W	X		ice/HCl	N	40ml	2	X								
UCC-10/7-QA2		10/7	1115	S	X		ice	N	40ml	3	X								CLP...
UCC-SB-B-19-4 (103)		10/7	1115	S	X		ice	N	40ml	3	X								file...
UCC-SB-B-19A-4		10/7	1115	S	X		ice	N	40ml	1									X
UCC-SB-A-12-4		10/7	1110	S	X		ice	N	40ml	1									X
UCC-10/7-QA1		10/7	-	W	N		ice/HCl	N	40ml	2	X								

RELINQUISHED BY: *[Signature]* DATE: 10/7/91 TIME: 12:00 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED FOR LABORATORY BY: *[Signature]* DATE: 10/7/91 TIME: 9:10

METHOD OF SHIPMENT: *Fed Ex* AIRBILL (OR SHIPPING INVOICE) NUMBER: **33290677.22**

7

Enseco - Erco Laboratory
Internal Chain of Custody
Sample Control Tracking Log

Project Number	Project Acceptance Date	***Laboratory Acceptance Boxes***							
		Metals	Nonmetals	Chrom	Hydro	Semi GC/MS	VOA GC	VOA GC/MS	Data Central
010146	EA 10/8/91								
010147	EA 10/8/91								TH 10/9
010148	EA 10/11/91						BO 10/11		
010149	TH 10/9/91			AY 10/15/91					
010150									
010151	SHB 10/8/91				ST 10-8	ST 10-8			
010152									
010153	EA 10/9	SVH 10/11/91 1-56							
010154	SHB 10/4						BO 10/11		
010155									
010156									
010157	SHB 10/8				JDL 10-8/91	JDL 10-8/91			
010158	EA 10/8				DV 9-27-91	JDL 10-8/91	CPW 10-9-91		
010159									
010160	MK 10/9/91						CPW 10-9-91		
010161	TH 10/9/91					AY 10/15/91	BO 10/9	P 10/12/91	
010162	TH 10/9/91							100951 RU	
010163	EA 10/9/91							100951 RU	TH 10/10
010164									
010165									
010166									
010167									

NOTE: Please sign name and date to confirm laboratory acceptance. Sample Control must highlight the Laboratory Acceptance Box to indicate which laboratories are affected.

**INTERLABORATORY
CHAIN OF CUSTODY**



9 of 1

SHIP TO: **VERSAK**

ANALYTICAL REQUESTS

SEND RESULTS TO: **ENSECO-ERCO**

ATTENTION: **LARRY POLLACK**

ATTENTION: **MARY FORD**

EXPORT ID

COMMENTS

TOC

UCC-SB-B-19-4

UCC-SB-A-12-4C

SAMPLE
CONDITION
UPON
RECEIPT

10147-05

10147-06

TEST PRICE

WRITTEN RESULTS
REQUIRED BY (DATE)

10/28

VERBAL/FAC RESULTS
REQUIRED BY (DATE)

10/28

PO No.

10147

SUBTOTAL

Q.C. STANDARD ENSECO CLP PROTOCOL PROJECT SPECIFIC

DISCOUNT / SURCHARGE

SAMPLE DISPOSAL ENSECO RETURN TO CLIENT PHONE

TOTAL

DETECTION LIMITS COMMON PRODUCTS OTHER*

*SPECIAL INSTRUCTIONS

HOLDING TIMES ENSECO EPA-CLP IER OTHER*

RAW DATA COPIES NEEDED YES NO

CUSTODY SEALS INTACT YES NO WET WEIGHT DRY WEIGHT

RELINQUISHED

DATE / TIME

RECEIVED

DATE / TIME

[Signature] **10-9-91 11:00 AM**

DATA REPORTING QUALIFIERS

The nine EPA-defined qualifers to be used are as follow:

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

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

and df = dilution factor

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

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

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

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/aroclor target analyte when the percent difference between the two GC columns is greater than 25% for detected concentrations (see form X). The lower of the two values is reported on form I and flagged with a P.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do NOT apply this flag. Instead, use a laboratory-defined flag.

DATA REPORTING QUALIFIERS (CONT.)

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale (except as noted in exhibit D), the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- NOTE: For total xylenes where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately (e.g., a diluted analysis is not required for total xylenes unless the concentrations of either peak separately exceed 200 µg/L).
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number of the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.

The laboratory-defined data reporting qualifiers to be used are as follow:

- X - Indicates that the database has been modified.
- Z - Indicates coelution.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	10-7-QA1	98	99	108	0	0
02	10-7-QA3	92	109	108	0	0
03	VBLK02	97	99	102	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)
S2 (BFB) = Bromofluorobenzene (86-115)
S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-A-12-4	98	107	103	0	0
02	VBLK01	98	104	110	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)
 S2 (BFB) = Bromofluorobenzene (74-121)
 S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	10-7-QA2	100	90	74	0	0
02	10-7-QA2DL	0 D	0 D	0 D	0	0
03	SB-B-19-4	98	78	77	0	0
04	VBLK03	104	103	103	0	0
05	VBLK04	96	104	103	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)
 S2 (BFB) = Bromofluorobenzene (74-121)
 S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Lab File ID: F2828 Lab Sample ID: BLANK02
Date Analyzed: 10/09/91 Time Analyzed: 1116
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10-7-QA1	10147-07	F2837	1637
02	10-7-QA3	10147-02	F2836	1605

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: B2933 Lab Sample ID: BLANK01
 Date Analyzed: 10/10/91 Time Analyzed: 1132
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Instrument ID: V2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SB-A-12-4	10147-01	B2934	1225

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Lab File ID: F2934 Lab Sample ID: BLANK03
Date Analyzed: 10/12/91 Time Analyzed: 1636
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10-7-QA2	10147-03	F2941	2023
02	SB-B-19-4	10147-04	F2942	2055

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

● b Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Lab File ID: B3023 Lab Sample ID: BLANK04
Date Analyzed: 10/16/91 Time Analyzed: 1124
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: V2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	10-7-QA2DL	10147-03DL	B3028	1602

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: B2910 BFB Injection Date: 10/09/91
 Instrument ID: V2 BFB Injection Time: 0935
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	45.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	Greater than 50.0% of mass 95	98.2
175	5.0 - 9.0% of mass 174	6.9 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	95.0 (96.7)1
177	5.0 - 9.0% of mass 176	6.6 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD100	100PPBSTD	B2915	10/09/91	1358
02	VSTD200	200PPBSTD	B2916	10/09/91	1440
03	VSTD150	150PPBSTD	B2919	10/09/91	1639
04	VSTD050	50PPBSTD	B2922	10/09/91	1841
05	VSTD020	20PPBSTD	B2923	10/09/91	1955

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: B2929 BFB Injection Date: 10/10/91
 Instrument ID: V2 BFB Injection Time: 0831
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	44.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	Greater than 50.0% of mass 95	95.1
175	5.0 - 9.0% of mass 174	6.8 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.4 (99.3)1
177	5.0 - 9.0% of mass 176	6.4 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	B2930	10/10/91	0933
02	VBLK01	BLANK01	B2933	10/10/91	1132
03	SB-A-12-4	10147-01	B2934	10/10/91	1225

5A
 VOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: B2949 BFB Injection Date: 10/11/91
 Instrument ID: V2 BFB Injection Time: 1641
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	Greater than 50.0% of mass 95	97.1
175	5.0 - 9.0% of mass 174	6.8 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	95.5 (98.4)1
177	5.0 - 9.0% of mass 176	6.4 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	B2951	10/11/91	1745
02	VSTD020	20PPBSTD	B2952	10/11/91	1856
03	VSTD100	100PPBSTD	B2955	10/11/91	2116
04	VSTD150	150PPBSTD	B2956	10/11/91	2159
05	VSTD200	200PPBSTD	B2959	10/12/91	0025

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: B3020 BFB Injection Date: 10/16/91
 Instrument ID: V2 BFB Injection Time: 0915
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	44.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	97.3
175	5.0 - 9.0% of mass 174	6.9 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.9 (97.5)1
177	5.0 - 9.0% of mass 176	7.1 (7.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	B3022	10/16/91	1021
02	VBLK04	BLANK04	B3023	10/16/91	1124
03	10-7-QA2DL	10147-03DL	B3028	10/16/91	1602

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: F2555 BFB Injection Date: 09/22/91
 Instrument ID: V6 BFB Injection Time: 0915
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.0
75	30.0 - 60.0% of mass 95	54.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	4.5 (6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.8 (100.1)1
177	5.0 - 9.0% of mass 176	4.9 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2557	09/22/91	1110
02	VSTD020	20PPBSTD	F2560	09/22/91	1322
03	VSTD100	100PPBSTD	F2561	09/22/91	1357
04	VSTD150	150PPBSTD	F2562	09/22/91	1435
05	VSTD200	200PPBSTD	F2563	09/22/91	1530

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: F2826 BFB Injection Date: 10/09/91
 Instrument ID: V6 BFB Injection Time: 0921
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	51.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.4 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.0 (96.2)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2827	10/09/91	1028
02	VBLK02	BLANK02	F2828	10/09/91	1116
03	10-7-QA3	10147-02	F2836	10/09/91	1605
04	10-7-QA1	10147-07	F2837	10/09/91	1637

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID: F2928 BFB Injection Date: 10/12/91
 Instrument ID: V6 BFB Injection Time: 1148
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	52.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	73.0 (98.0)1
177	5.0 - 9.0% of mass 176	4.9 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE 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	50PPBSTD	F2930	10/12/91	1259
02	VBLK03	BLANK03	F2934	10/12/91	1636
03	10-7-QA2	10147-03	F2941	10/12/91	2023
04	SB-B-19-4	10147-04	F2942	10/12/91	2055

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-12-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: B2934

Level: (low/med) LOW Date Received: 10/08/91

% Moisture: not dec. 17 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	9	B
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	3	BJ
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-12-4

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 10147-01
Sample wt/vol: 5.1 (g/mL) G Lab File ID: B2934
Level: (low/med) LOW Date Received: 10/08/91
% Moisture: not dec. 17 Date Analyzed: 10/10/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

* - Compound is an Internal Standard
 D - Compound Deleted

NC

L-100791 V2A
 R-101091 V2A
 7 B2933
 mecl2
 2-But

Reduced by : JD Date: 10/09/91 Data File: >B2934
 Reviewed by : JD Date: 10/16/91 Page: 1

Enseco GC/MS

Target Compound Data Summary Sheet

Sample: BALSAM 10147-1 5.08G
 Misc : V2 CH# 10 5ULIS ID# UCC-SB-A-12-4
 Injected : 10/10/91 12:25
 Analyst: NDRA
 ID File: VDHID2
 Quant list threshold: 1.00

Units: UG/KG
 Run Factor: .984 ✓
 Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	.2500	.2567	103	70 121
CS05 D8-Toluene	.2500	.2441	97.6	81 117
CS10 Bromofluorobenzene (BFB)	.2500	.2684	107	74 121

Target Compounds: VDHID2

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
263	2.168 Sng	2.133	C035 Acetone
	BDL		C040 Carbon Disulfide
310	5.808 S	5.715	C030 Methylene Chloride
	7.23	7.114 B	C053 Trans-1,2-Dichloroethene
	BDL		C055 cis-1,2-Dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
473	2.654	2.612 JB	C110 2-Butanone
	BDL		C125 Vinyl Acetate
544	1.385	1.363 J	C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
710	1.199	1.180 J	C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropen
	BDL		C172 Trans-1,3-Dichloropropen
	BDL		C160 1,1,2-Trichloroethane
	BDL		C155 Dibromochloromethane

000017

Data file: >B2934 Page: 2
Sample: BALSAM 10147-1 5.08G

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL	C205	4-Methyl-2-Pentanone
	BDL	C230	Toluene
	BDL	C210	2-Hexanone
	BDL	C220	Tetrachloroethene
	BDL	C235	Chlorobenzene
	BDL	C240	Ethylbenzene
	BDL	CXXX	Xylene (p)
	BDL	CXXX	Xylenes (o)
	BDL	C245	Styrene
	BDL	C225	1,1,2,2-Tetrachloroethan
	BDL	C335	Dichlorobenzene (m)
	BDL	C340	Dichlorobenzene (p)
	BDL	C350	Dichlorobenzene (o)
	BDL	C250	Xylene (Total)

Diagnostic Quant Report

Data File: >B2934::D6 Injected at: 12:25 10/10/91
 Quant'd : 12:54 10/10/91
 ID File : VOHID2::\$\$ Calibrated : 11:39 10/10/91

Compound	- R.T. Info -				Area	RF	Conc.
	Pred	Found	Dif	Ion			
1) *C101	Bromochloromethane	7.50	7.49	.01	128.0	127200 1.0000 ✓	50.00
2) C010	Chloromethane	3.12	0.00	--	50.0	0 .7606	0.00
3) C020	Vinyl Chloride	3.25	0.00	--	62.0	0 .9823	0.00
4) C015	Bromomethane	3.68	0.00	--	94.0	0 .5698	0.00
5) C025	Chloroethane	3.87	0.00	--	64.0	0 .4451	0.00
6) C045	1,1-Dichloroethene	4.62	4.62	.00	96.0	1402 .8127	.68
7) C035	Acetone	4.69	4.69	.00	43.0	2131 .3863	2.17
7)D C035	Acetone	4.69	5.11	.42	43.0	1095 .3863	1.11
8) C040	Carbon Disulfide	4.97	4.90	.07	76.0	6046 3.9680	.60
9) C030	Methylene Chloride	5.23	5.24	.01	84.0	12688 .8587	5.81
10) C053	Trans-1,2-Dichloroe	5.61	5.59	.02	96.0	511 1.6910	.12
11) C055	cis-1,2-Dichloroeth	7.11	7.07	.04	96.0	1162 1.8277	.25
12) C050	1,1-Dichloroethane	6.21	0.00	--	63.0	0 3.1862	0.00
13) C060	Chloroform	7.65	7.62	.02	83.0	2105 3.1033	.27
14) C065	1,2-Dichloroethane	8.65	8.64	.01	62.0	760 1.9704	.15
15) C110	2-Butanone	7.14	7.14	.00	72.0	1796 .2660	2.65
16) CS15	D4-1,2-Dichloroetha	8.51	8.52	.01	65.0	184331 1.4113	51.34
17) *C110	1,4-Difluorobenzene	9.40	9.39	.01	114.0	431522 1.0000	50.00
18) C125	Vinyl Acetate	6.30	0.00	--	43.0	0 .9517	0.00
19) C115	1,1,1-Trichloroetha	7.96	7.97	.01	97.0	5419 .4534	1.38
20) C120	Carbon Tetrachlorid	8.27	0.00	--	117.0	0 .4089	0.00
21) C165	Benzene	8.64	8.62	.02	78.0	3521 1.2956	.31
22) C150	Trichloroethene	9.92	9.92	.00	130.0	4323 .4179	1.20
23) C140	1,2-Dichloropropane	10.36	0.00	--	63.0	0 .4373	0.00
24) C130	Bromodichloromethan	10.98	0.00	--	83.0	0 .5779	0.00
25) C175	2-Chloroethylvinyle	11.73	0.00	--	63.0	0 .2103	0.00
26) C143	Cis-1,3-Dichloropro	12.03	0.00	--	75.0	0 .6202	0.00
27) C172	Trans-1,3-Dichlorop	13.42	0.00	--	75.0	0 .4589	0.00
28) C160	1,1,2-Trichloroetha	13.88	0.00	--	97.0	0 .3349	0.00
29) C155	Dibromochloromethan	14.90	0.00	--	129.0	0 .4462	0.00
30) C180	Bromoform	19.10	0.00	--	173.0	0 .3428	0.00
31) *C120	D5-Chlorobenzene	16.55	16.58	.03	117.0	292147 1.0000	50.00
32) CS05	D8-Toluene	12.71	12.70	.01	98.0	406872 1.4264	48.82
33) C205	4-Methyl-2-Pentanon	12.49	0.00	--	43.0	0 .8523	0.00
34) C230	Toluene	12.88	12.86	.01	92.0	2368 .9534	.43
35) C210	2-Hexanone	14.67	0.00	--	43.0	0 .4437	0.00
36) C220	Tetrachloroethene	14.29	14.29	.01	164.0	1715 .4268	.69
37) C235	Chlorobenzene	16.66	16.66	.00	112.0	1392 1.1171	.21
38) C240	Ethylbenzene	17.06	17.43	.37	106.0	1342 .5167	.44
39) CXXX	Xylene (p)	17.45	17.43	.01	106.0	1342 .6402	.36
40) CXXX	Xylenes (o)	18.63	0.00	--	106.0	0 .7147	0.00
41) C245	Styrene	18.68	18.70	.02	104.0	940 1.1194	.14
42) C225	1,1,2,2-Tetrachloro	20.86	0.00	--	83.0	0 1.2096	0.00
43) CS10	Bromofluorobenzene	20.27	20.26	.01	95.0	194063 .6187	53.68
44) C335	Dichlorobenzene (m	23.87	0.00	--	146.0	0 .9644	0.00
45) C340	Dichlorobenzene (p	24.20	0.00	--	146.0	0 .9883	0.00

000019

Internal Standard Comparison

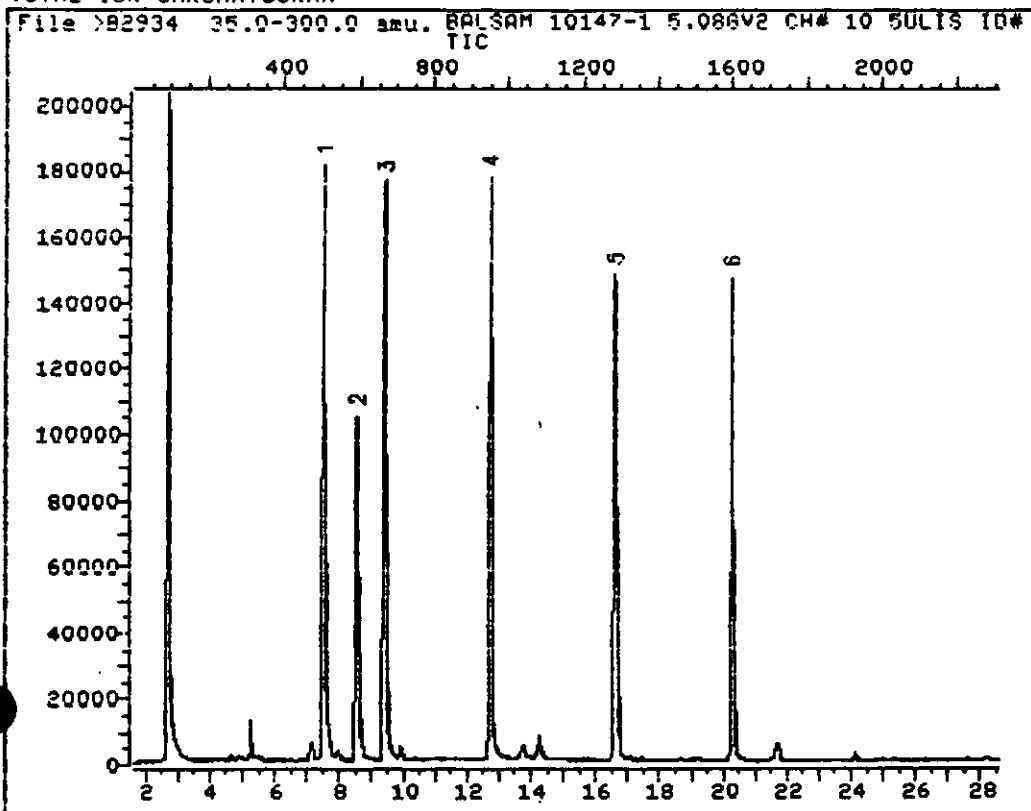
Sample: >B2934 Date injected: 10/10/91 Standard: >B2930 ✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	127200	167202	76.1
CI10 1,4-Difluorobenzene	431522	667525	64.6
CI20 05-Chlorobenzene	292147	454669	64.3

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >B2934::D6 Quant Output File: ^B2934::QT
Name: BALSAM 10147-1 5.08G
Misc: V2 CH# 10 5ULIS ID# UCC-SB-A-12-4

Id File: VOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
Last Calibration: 911010 11:39

Operator ID: NORA
Quant Time: 911010 12:54
Injected at: 911010 12:25

QUANT REPORT

Operator ID: NORA Quant Rev: 6 Quant Time: 911010 12:54
 Output File: ^B2934::QT Injected at: 911010 12:25
 Data File: >B2934::06 Dilution Factor: 1.00000
 Name: BALSAM 10147-1 5.08G
 Misc: V2 CH# 10 5ULIS ID# UCC-SB-A-12-4

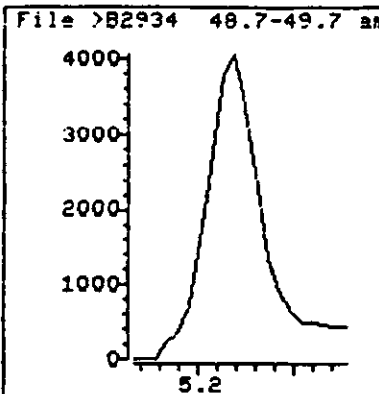
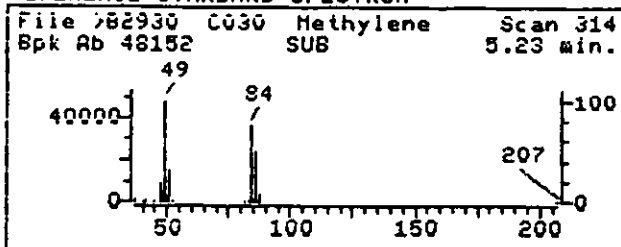
ID File: VOHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
 Last Calibration: 911010 11:39

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.49	128.0	127200	50.00	UG/L	96
6)	C045 1,1-Dichloroethene	4.62	96.0	1402	.68	UG/L	93
7)	C035 Acetone	4.69	43.0	2131	2.17	UG/L	100
8)	C040 Carbon Disulfide	4.90	76.0	6046	.60	UG/L	100
9)	C030 Methylene Chloride	5.24	84.0	12688	5.81	UG/L	85
10)	C053 Trans-1,2-Dichloroethene	5.59	96.0	511	.12	UG/L	99
11)	C055 cis-1,2-Dichloroethene	7.07	96.0	1162	.25	UG/L	97
13)	C060 Chloroform	7.62	83.0	2105	.27	UG/L	92
14)	C065 1,2-Dichloroethane	8.64	62.0	760	.15	UG/L	100
15)	C110 2-Butanone	7.14	72.0	1796	2.65	UG/L	94
16)	CS15 D4-1,2-Dichloroethane	8.52	65.0	184331	51.34	UG/L	80
17)	*CI10 1,4-Difluorobenzene	9.39	114.0	431522	50.00	UG/L	100
19)	C115 1,1,1-Trichloroethane	7.97	97.0	5419	1.38	UG/L	95
21)	C165 Benzene	8.62	78.0	3521	.31	UG/L	100
22)	C150 Trichloroethene	9.92	130.0	4323	1.20	UG/L	97
31)	*CI20 D5-Chlorobenzene	16.58	117.0	292147	50.00	UG/L	100
32)	CS05 D8-Toluene	12.70	98.0	406872	48.82	UG/L	93
34)	C230 Toluene	12.86	92.0	2368	.43	UG/L	95
36)	C220 Tetrachloroethene	14.29	164.0	1715	.69	UG/L	77
37)	C235 Chlorobenzene	16.66	112.0	1392	.21	UG/L	88
38)	C240 Ethylbenzene	17.43	106.0	1342	.44	UG/L	70
39)	CXXX Xylene (p)	17.43	106.0	1342	.36	UG/L	98
41)	C245 Styrene	18.70	104.0	940	.14	UG/L	100
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0	194063	53.68	UG/L	79
47)	C250 Xylene (Total)	17.42	106.0	1342	.32	UG/L	85

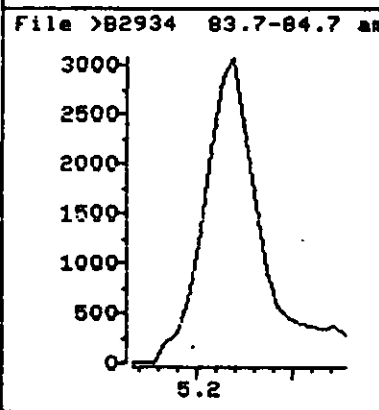
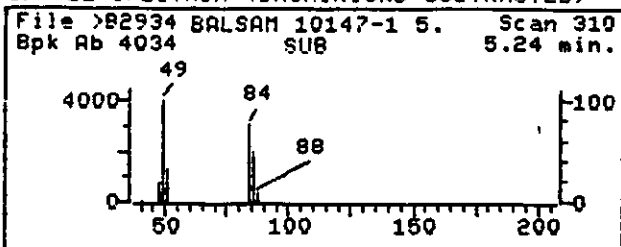
* Compound is ISTD

mecl2 Rt. 5.24 area: 15785m 7.23 ug/l
10/09/1

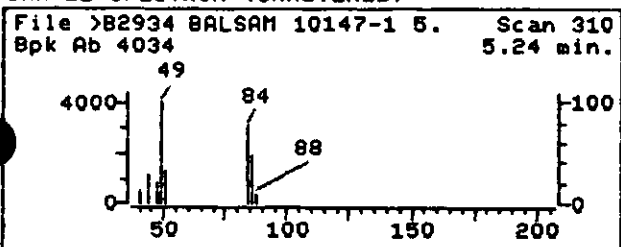
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2934::D6

Quant Output File: ^B2934::QT

Name: BALSAM 10147-1 5.08G

Misc: U2 CH# 10 5ULIS ID# UCC-SB-A-12-4

Quant Time: 911010 12:54

Quant ID File: VQHID2::\$\$

Injected at: 911010 12:25

Last Calibration: 911010 11:39

Compound No: 9

Compound Name: C030 Methylene Chloride

Scan Number: 310

Retention Time: 5.24 min.

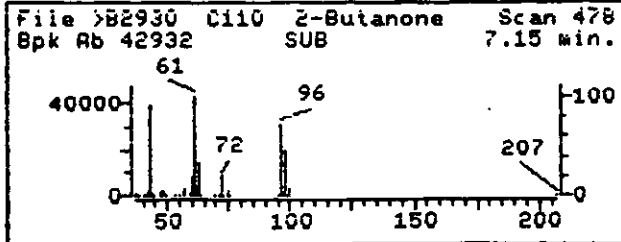
Quant Ion: 84.0

Area: 12686

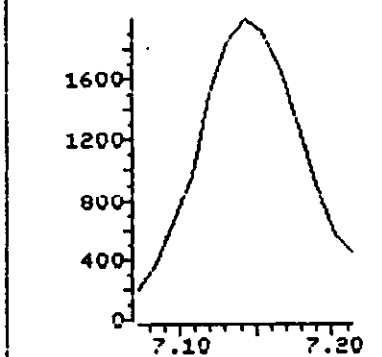
Concentration: 5.81 UG/L

q-value: 85

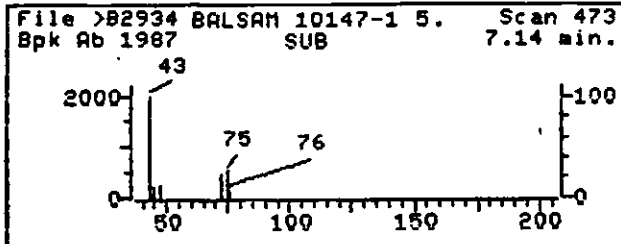
REFERENCE STANDARD SPECTRUM



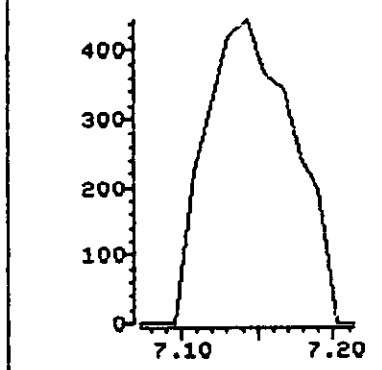
File >B2934 42.7-43.7 am



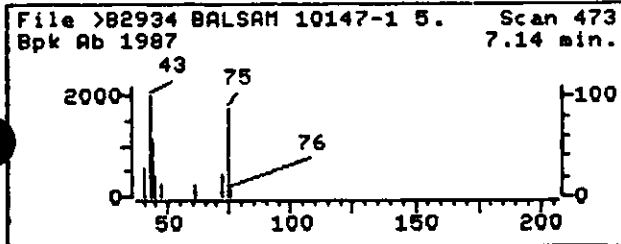
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



File >B2934 71.7-72.7 am



SAMPLE SPECTRUM (UNALTERED)

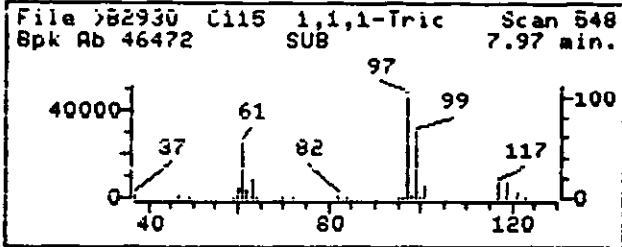


Data File: >B2934::D6
Name: BALSAM 10147-1 5.08G
Misc: V2 CH# 10 SULIS ID# UCC-SB-A-12-4
Quant Time: 911010 12:54
Injected at: 911010 12:25

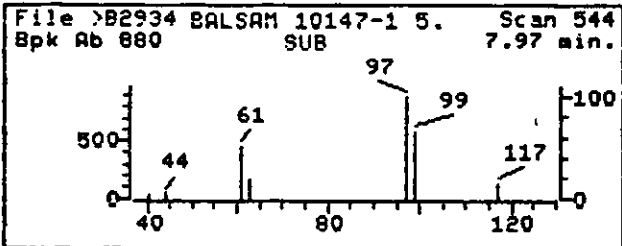
Quant Output File: ^B2934::QT
Quant ID File: VDHID2::\$\$
Last Calibration: 911010 11:39

Compound No: 15
Compound Name: C110 2-Butanone
Scan Number: 473
Retention Time: 7.14 min.
Quant Ion: 72.0
Area: 1796
Concentration: 2.65 UG/L
q-value: 94

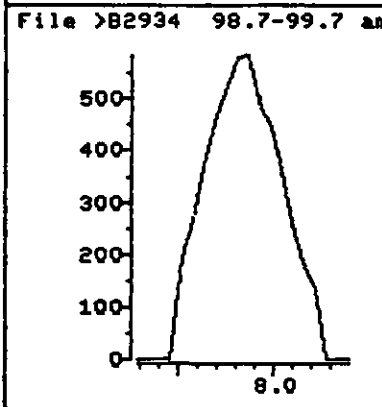
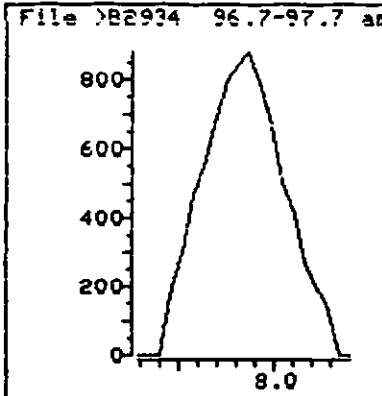
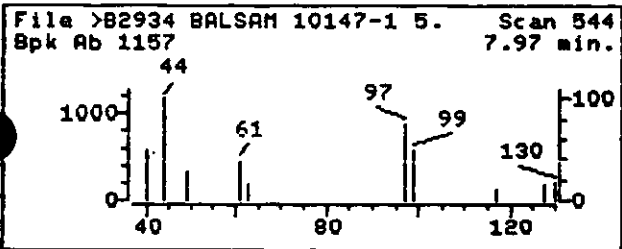
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

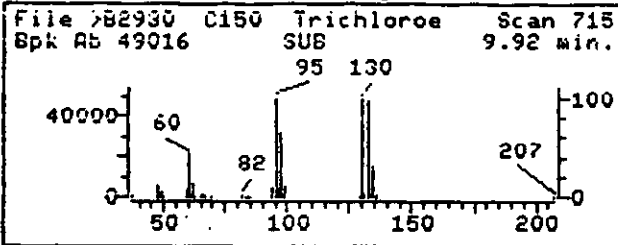


Data File: >B2934::D6
 Name: BALSAM 10147-1 5.08G
 Misc: V2 CH# 10 5ULIS ID# UCC-SB-A-12-4
 Quant Time: 911010 12:54
 Injected at: 911010 12:25

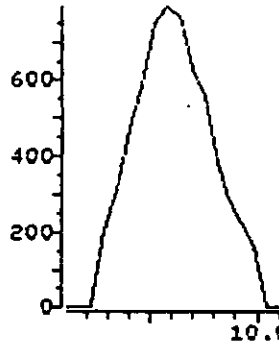
Quant Output File: ^B2934::QT
 Quant ID File: UOHID2::\$\$
 Last Calibration: 911010 11:39

Compound No: 19
 Compound Name: C115 1,1,1-Trichloroethane
 Scan Number: 544
 Retention Time: 7.97 min.
 Quant Ion: 97.0
 Area: 5419
 Concentration: 1.38 UG/L
 q-value: 95

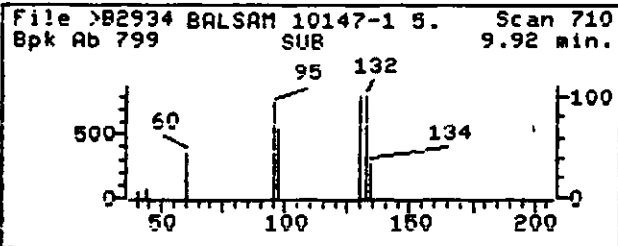
REFERENCE STANDARD SPECTRUM



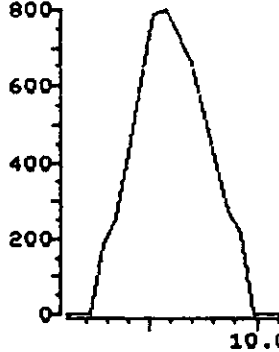
File >B2934 129.7-130.7



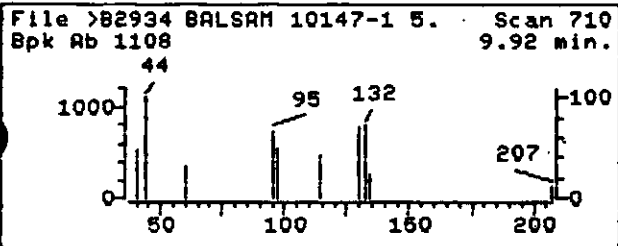
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



File >B2934 131.7-132.7



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2934::D6

Quant Output File: ^B2934::QT

Name: BALSAM 10147-1 5.08G

Misc: V2 CH# 10 5ULIS ID# UCC-SB-A-12-4

Quant Time: 911010 12:54

Quant ID File: UOHID2::\$\$

Injected at: 911010 12:25

Last Calibration: 911010 11:39

Compound No: 22

Compound Name: C150 Trichloroethene

Scan Number: 710

Retention Time: 9.92 min.

Quant Ion: 130.0

Area: 4323

Concentration: 1.20 UG/L

q-value: 97

Data Reduced by : JG Date: 10/09/01
Data Reviewed by : JG Date: 10/09/01

Data File: >B2934

Enseco TIC Report (page 1)

Sample: BALSAM 10147-1 5.08G

Run Factor:

.984

Conditions: V2 CH# 10 SULIS ID# UCC-SB-A-1

Analyst: NDRA

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
1	88			87	88 88 0	<i>solvent front</i>

000027

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-7-QA3

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 10147-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2836

Level: (low/med) LOW Date Received: 10/08/91

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND 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	4	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-7-QA3

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 10147-02
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2836
Level: (low/med) LOW Date Received: 10/08/91
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRICHLOROBENZENE ISOMER	20.74	37	J

* - Compound is an Internal Standard
D - Compound Deleted

L - 100691 V6A

N/C

R 100991 V6A

Reduced by: [Signature]
Reviewed by: [Signature]

Date: 100991
Date: 10/691

Data File: >F2836
Page: 1

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

MeCh

Sample: BALSAM 10147-2 5ML
Misc : U6 CH#1 5ULIS ID# UCC-10/7-0A/3
Injected : 10/09/91 16:05
Analyst: LIZ
ID File: MOBID6
Quant list threshold: 1.00

Units: UG/L
Fun Factor: 1.000
Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2701	108	76 114
CS05 D8-Toluene	.2500	.2306	92.2	88 110
CS10 Bromofluorobenzene	.2500	.2725	109	86 115

Target Compounds: MOBID6

Concentration

Quant List Sample

Scan #	UG/L	Sample UG/L	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
263	4.101	4.1	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

000030

Sample: EALSAM 10147-2 5ML

Scan #	Concentration		Compound
	Quant list	Sample	
	UG/L	UG/L	
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

000031

Diagnostic Quant Report

Data File: >F2936::D6 Injected at: 16:05 10/09/91
 Quant'd : 16:33 10/09/91
 ID File : MOBID6::MT Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *CI01 Bromochloromethane	7.33	7.34	.01	128.0	51326	1.0000	50.00
2) C010 Chloromethane	2.73	0.00	--	50.0	0	1.3236	0.00
3) C020 Vinyl Chloride	2.87	0.00	--	62.0	0	1.3500	0.00
4) C015 Bromomethane	3.28	0.00	--	94.0	0	1.2156	0.00
5) C025 Chloroethane	3.41	0.00	--	64.0	0	.5022	0.00
6) C045 1,1-Dichloroethene	4.39	0.00	--	96.0	0	1.5071	0.00
7) C035 Acetone	4.45	0.00	--	43.0	0	.1843	0.00
8) C040 Carbon Disulfide	4.69	0.00	--	76.0	0	4.4340	0.00
9) C030 Methylene Chloride	5.03	5.03	.00	84.0	7577	1.7999	4.10
10) CXXX Tert-butyl alcohol	5.17	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.42	0.00	--	96.0	0	1.8441	0.00
12) C055 Cis-1,2-dichloroethe	6.94	0.00	--	96.0	0	1.9832	0.00
13) CXXX Methyl tert-butyl et	5.42	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	6.03	0.00	--	63.0	0	3.5329	0.00
15) C060 Chloroform	7.49	0.00	--	83.0	0	3.7902	0.00
16) C065 1,2-Dichloroethane	8.52	0.00	--	62.0	0	2.1737	0.00
17) C110 2-Butanone	6.97	0.00	--	72.0	0	.1091	0.00
18) CS15 D4-1,2-dichloroethan	8.38	8.38	.00	65.0	87090	1.5708	54.01
19) *CI10 1,4-Difluorobenzene	9.23	9.24	.00	114.0	251677	1.0000	50.00
20) C125 Vinyl Acetate	6.10	0.00	--	43.0	0	.6048	0.00
21) C115 1,1,1-Trichloroethan	7.80	0.00	--	97.0	0	.5974	0.00
22) C120 Carbon Tetrachloride	8.11	0.00	--	117.0	0	.4898	0.00
23) C165 Benzene	8.49	0.00	--	78.0	0	.9908	0.00
24) C150 Trichloroethene	9.76	0.00	--	130.0	0	.4258	0.00
25) C140 1,2-Dichloropropane	10.24	0.00	--	63.0	0	.4057	0.00
26) C130 Bromodichloromethane	10.87	0.00	--	83.0	0	.6001	0.00
27) C175 2-Chloroethylvinylet	11.59	0.00	--	63.0	0	.1776	0.00
28) C143 Cis-1,3-Dichloroprop	11.92	0.00	--	75.0	0	.5829	0.00
29) C172 Trans-1,3-dichloropr	13.32	0.00	--	75.0	0	.4482	0.00
30) C160 1,1,2-Trichloroethan	13.80	0.00	--	97.0	0	.2952	0.00
31) C155 Dibromochloromethane	14.83	0.00	--	129.0	0	.4676	0.00
32) C180 Bromoform	19.02	0.00	--	173.0	0	.2627	0.00
33) *CI20 D5-Chlorobenzene	16.44	16.46	.01	117.0	209565	1.0000	50.00
34) CS05 D8-Toluene	12.56	12.57	.00	98.0	250951	1.2981	46.12
35) C205 4-Methyl-2-pentanone	12.32	0.00	--	43.0	0	.3240	0.00
36) C230 Toluene	12.72	0.00	--	92.0	0	.9048	0.00
37) C210 2-Hexanone	14.52	0.00	--	43.0	0	.2131	0.00
38) C220 Tetrachloroethene	14.14	0.00	--	164.0	0	.4676	0.00
39) C235 Chlorobenzene	16.53	0.00	--	112.0	0	1.0869	0.00
40) C240 Ethylbenzene	16.91	17.31	.39	106.0	1261	.5461	.55
41) CXXX Xylenes (p)	17.28	17.31	.03	106.0	1261	.6696	.45
42) CXXX Xylenes (o)	18.48	0.00	--	106.0	0	.6363	0.00
43) C245 Styrene	18.52	0.00	--	104.0	0	1.1149	0.00
44) C225 1,1,2,2-Tetrachloroe	20.69	0.00	--	83.0	0	.5730	0.00
45) CS10 Bromofluorobenzene	20.11	20.14	.03	95.0	162992	.7136	54.49
46) C335 Dichlorobenzene (m)	23.66	0.00	--	146.0	0	.9378	0.00
47) C340 Dichlorobenzene (p)	23.98	0.00	--	146.0	0	.8488	0.00
48) C350 Dichlorobenzene (o)	25.21	0.00	--	146.0	0	.8417	0.00

000032

Internal Standard Comparison

Sample: >F2836 Date injected: 10/09/91 Standard: >F2827

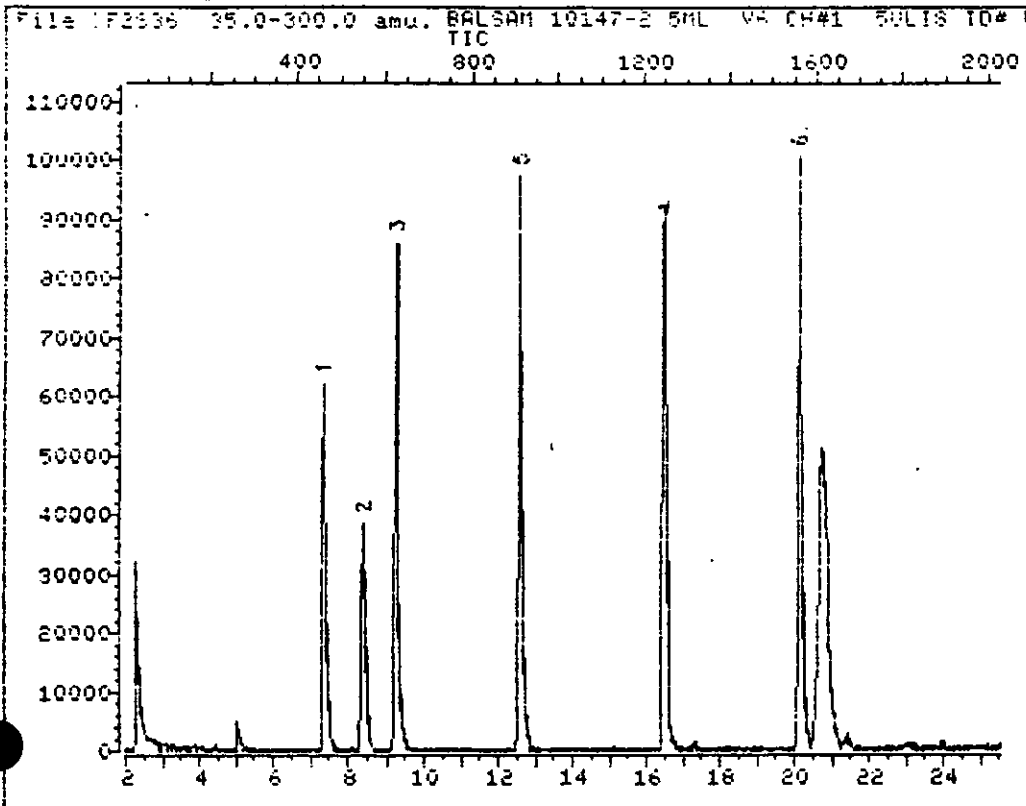
Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	51326	75510	68.0
CI10 1,4-Difluorobenzene	251677	407259	61.8
CI20 D5-Chlorobenzene	209565	308421	67.9

% = (Sample Area/Std Area)*100

* Area outside limits

000033

TOTAL ION CHROMATOGRAM



Data File: >F2836::D6

Quant Output File: ^F2836::D7

Name: BALSAM 10147-2 5ML

Instrument ID: U6

Misc: U6 CH#1 5ULIS ID# UCC-10/7-QA~~3~~

R 1001-21

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911009 10:28

Operator ID: LIZ

Quant Time : 911009 16:33

Injected at: 911009 16:05

000034

QUANT REPORT

Page 1

Operator ID: LIZ Quant Rev: 7 Quant Time: 911009 16:33
 Output File: ^F2836::D7 Injected at: 911009 16:05
 Data File: >F2836::D6 Dilution Factor: 1.00000
 Name: BALSAM 10147-2 5ML Instrument ID: U6
 Misc: U6 CH#1 SULIS ID# UCC-10/7-DA~~X~~3

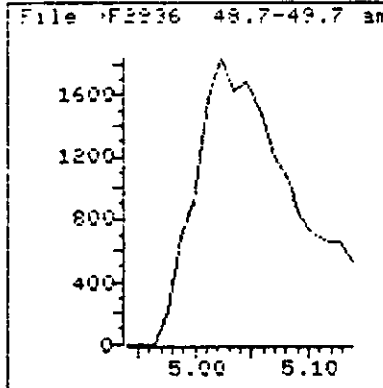
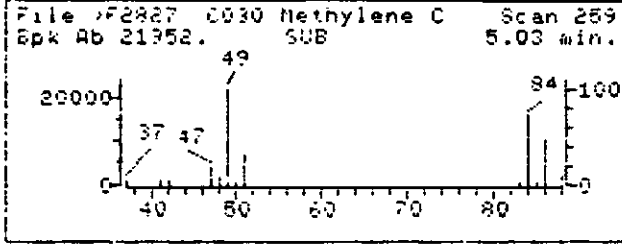
ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO
 Last Calibration: 910814 09:37 Last Qual Time: 911009 10:28

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.34	128.0	51326	50.00	UG/L	69
9) C030 Methylene Chloride	5.03	84.0	7577	4.10	UG/L	70
18) CS15 D4-1,2-dichloroethane	8.38	65.0	87090	54.01	UG/L	75
19) *CI10 1,4-Difluorobenzene	9.24	114.0	251677	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.46	117.0	209565	50.00	UG/L	100
34) CS05 D8-Toluene	12.57	98.0	250951	46.12	UG/L	98
40) C240 Ethylbenzene	17.31	106.0	1261	.551	UG/L	48
) CXXX Xylenes (p)	17.31	106.0	1261	.449	UG/L	80
) CS10 Bromofluorobenzene	20.14	95.0	162992	54.49	UG/L	72

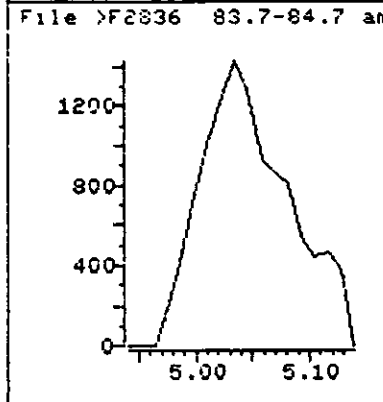
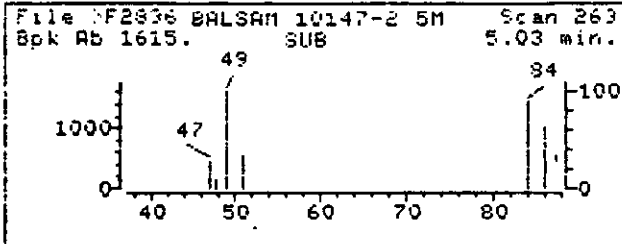
* Compound is ISTD

000035

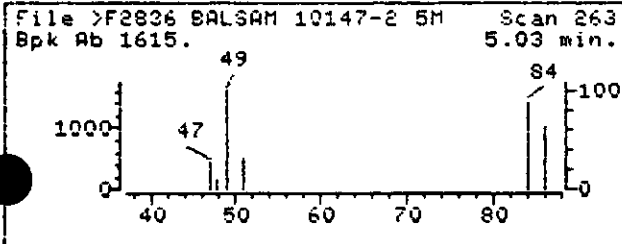
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2836::D6
Name: BALSAM 10147-2 5ML
Misc: U6 CH#1 5ULIS ID# UCC-10/7-QA *3 μ 1021-91*
Quant Time: 911009 16:33
Injected at: 911009 16:05
Last Qcal Time: 911009 10:28

Quant Output File: ^F2836::07
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 9
Compound Name : C030 Methylene Chloride
Scan Number : 263
Retention Time: 5.03 min.
Quant Ion : 84.0
Area : 7577
Concentration : 4.10 UG/L
q-value : 70

Data Produced by : 10 Date: 100991
Data Reviewed by : 20 Date: 10-22-91

Data File: >F2936

Enseco TIC Report (page 1)

Sample: BALSAM 10147-2 5ML Run Factor: 1.00
Conditions: U6 CH#1 5ULIS ID# UCC-10/7-QA3 Analyst: LIZ

#	Scan	Q	C	Concentration In Sample (UG/L)	CAS #	Compound
1	1612.			37.	108-70-3	Benzene, 1,3,5 trichloro- ISOMER

000037

Data File: >F2836

Enseco TIC Report (page 2)

Concentration = Area(TIC) * Conc.(IS) / Area(IS)

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. As Analyzed (UG/L)
1	96	15	3	20.74	1.259	498950.	59925.	37.323

000038

TIC Internal Standard Report

Data File: >F2836

Maximum separation of RIC and Quan ion peaks: 3.
Minimum RIC peak area as % of est. RIC area: 50.
Maximum RIC peak area as % of est. RIC area: 200.

#	Name	Q scan	Q area	Concentration	ROratio	PIC scan	RIC area	Flag	% Est. RIC
1	CI01 Bromochlorometh	461.	51326.	50.000 UG/L	6.987	461.	354569.	Ok	98.870
2	CI10 1,4-Difluoroben	624.	251677.	50.000 UG/L	2.300	624.	560713.	Ok	96.876
3	CI20 D5-Chlorobenzen	1244.	209565.	50.000 UG/L	3.615	1245.	655030.	Ok	86.469

Deleting peaks from INT file: VDIR87

Minimum area: 10 % of area of closest Int. Std.
Number of peaks: 7
Number of peaks remaining: 7

Deleting target compounds from INT file: VDIR87

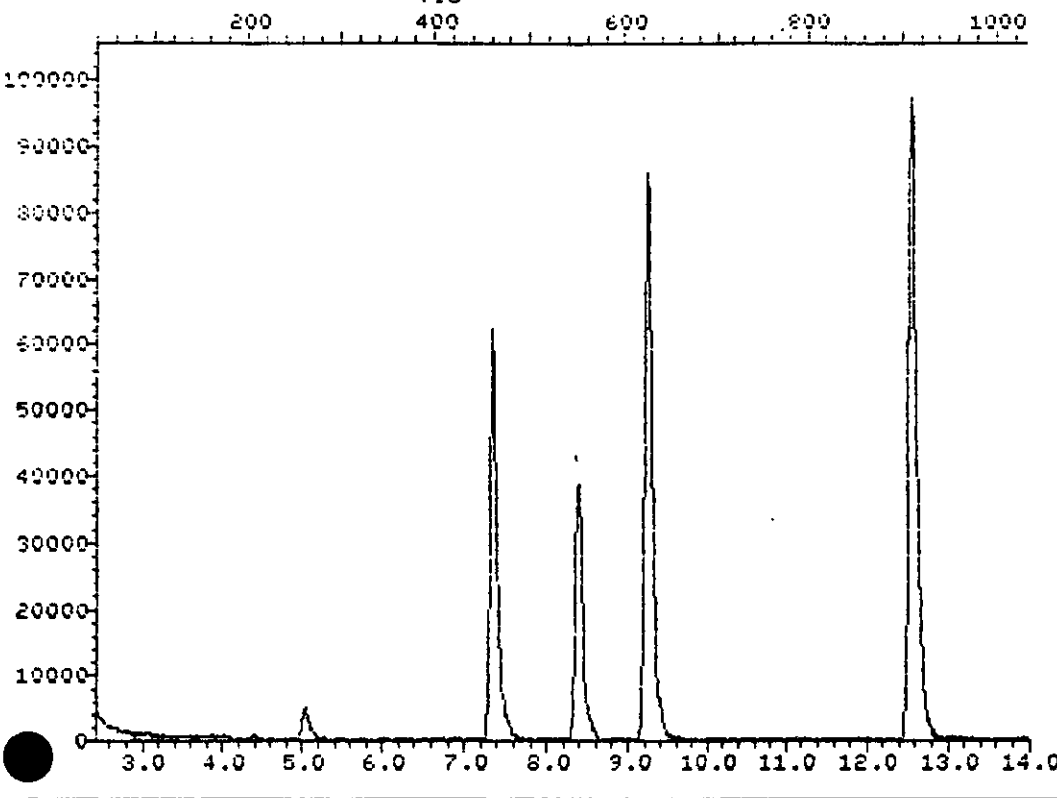
Minimum separation of TIC and target: 5.
Maximum fraction of RIC peak from targets: 40. %
Number of peaks: 7
Number of peaks remaining: 1

Deleting all but largest peaks from INT file: VDIR87

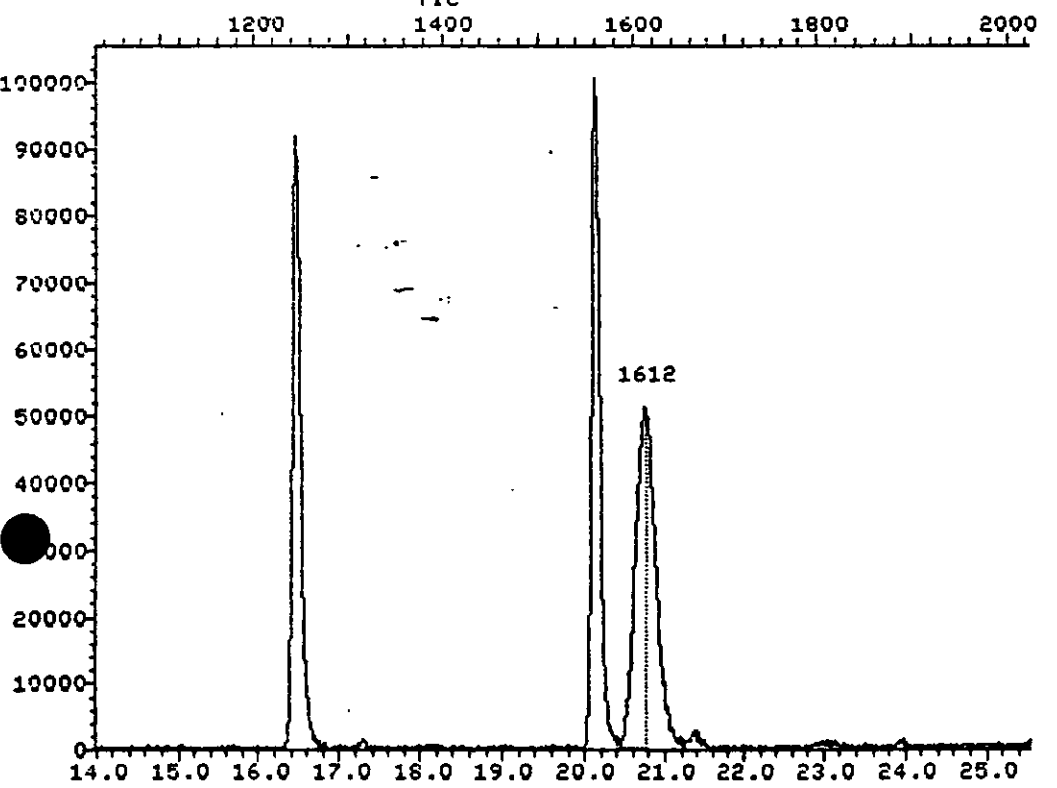
Maximum number of peaks to keep: 15
Number of peaks: 1

Maximum number of peaks > number of peaks.

File >F2836 35.0-300.0 amu. BALSAM 10147-2 5ML V6 CH#1 5ULIS 10# UCC-



File >F2836 35.0-300.0 amu. BALSAM 10147-2 5ML V6 CH#1 5ULIS 10# UCC-



000040

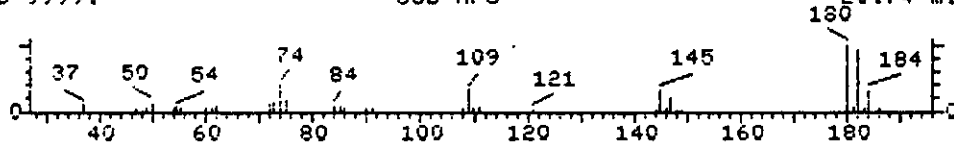
NUMBER: 1

- 1. Benzene, ~~1,3,5~~-trichloro- (8CI9CI) *Womer* 180 C6H3Cl3
- 2. Benzene, 1,2,4-trichloro- *e* 180 C6H3Cl3
- 3. Benzene, 1,2,4-trichloro- (8CI9CI) 180 C6H3Cl3
- 4. Benzene, 1,2,4-trichloro- 180 C6H3Cl3
- 5. Benzene, 1,2,3-trichloro- (8CI9CI) 180 C6H3Cl3
- 6. Benzene, 1,2,4-trichloro- 180 C6H3Cl3

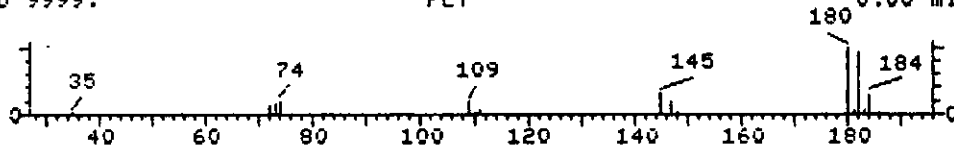
Sample file: \F2836 Spectrum #: 1612
 Search speed: 2 Tilting option: S No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU	
1.	96*	108703	21952	"BIGDB	98	23	0	0	80	15	64	97
2.	95*	218	320	PRIPOL	87	34	0	0	73	10	68	95
3.	94*	120821	21927	"BIGDB	82	35	0	0	75	18	60	94
4.	94*	217	319	PRIPOL	82	35	0	0	75	18	60	94
5.	83*	87616	21925	"BIGDB	76	38	1	0	93	15	51	74
6.	79*	216	318	PRIPOL	68	47	1	0	95	15	43	66

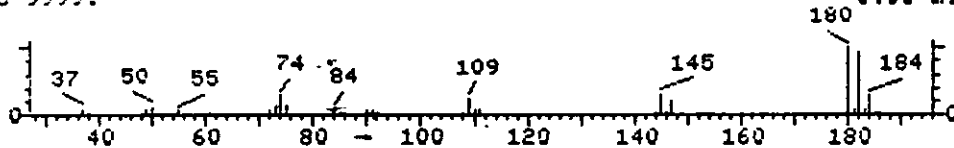
>F2836 BALSAM 10147-2 5ML V6 CH#1 5ULIS ID# UCC-10/7-0A3 Scan 1612
 Spk Ab 9999. SUB MPC 20.74 min.



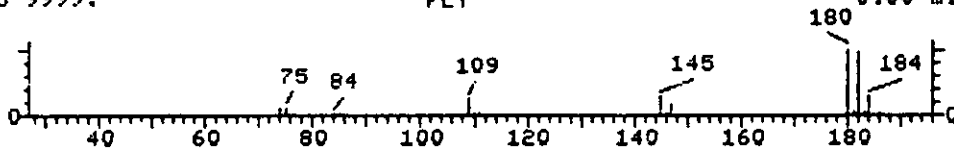
File "BIGDB Benzene, 1,3,5-trichloro- (8CI9CI) Scan 21952
 Spk Ab 9999. FLT 0.00 min.



File PRIPOL Benzene, 1,2,4-trichloro- Scan 218
 Spk Ab 9999. 0.00 min.



File "BIGDB Benzene, 1,2,4-trichloro- (8CI9CI) Scan 21927
 Spk Ab 9999. FLT 0.00 min.



000041

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-7-QA2

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2941

Level: (low/med) MED Date Received: 10/08/91

% Moisture: not dec. 10 Date Analyzed: 10/12/91

Column: (pack/cap) CAP Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	14000	U
74-83-9	Bromomethane	14000	U
75-01-4	Vinyl Chloride	14000	U
75-00-3	Chloroethane	14000	U
75-09-2	Methylene Chloride	6800	U
67-64-1	Acetone	14000	U
75-15-0	Carbon Disulfide	6800	U
75-35-4	1,1-Dichloroethene	6800	U
75-34-3	1,1-Dichloroethane	6800	U
540-59-0	1,2-Dichloroethene (total)	6800	U
67-66-3	Chloroform	6800	U
107-06-2	1,2-Dichloroethane	6800	U
78-93-3	2-Butanone	14000	U
71-55-6	1,1,1-Trichloroethane	19000	U
56-23-5	Carbon Tetrachloride	6800	U
108-05-4	Vinyl Acetate	14000	U
75-27-4	Bromodichloromethane	6800	U
78-87-5	1,2-Dichloropropane	6800	U
10061-01-5	cis-1,3-Dichloropropene	6800	U
79-01-6	Trichloroethene	8800	U
124-48-1	Dibromochloromethane	6800	U
79-00-5	1,1,2-Trichloroethane	6800	U
71-43-2	Benzene	6800	U
10061-02-6	trans-1,3-Dichloropropene	6800	U
110-75-8	2-Chloroethylvinylether	14000	U
75-25-2	Bromoform	6800	U
108-10-1	4-Methyl-2-Pentanone	14000	U
591-78-6	2-Hexanone	14000	U
127-18-4	Tetrachloroethene	6800	U
79-34-5	1,1,2,2-Tetrachloroethane	6800	U
108-88-3	Toluene	7100	U
108-90-7	Chlorobenzene	6800	U
100-41-4	Ethylbenzene	100000	U
100-42-5	Styrene	6800	U
1330-20-7	Xylene (total)	510000	E

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-7-QA2

Sample Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2941

Level: (low/med) MED Date Received: 10/08/91

% Moisture: not dec. 10 Date Analyzed: 10/12/91

Column (pack/cap) CAP Dilution Factor: 10.0

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C9H20 ISOMER	17.47	56000	J
2.	SUBSTITUTED CYCLOHEXANE	19.22	36000	J
3.	UNKNOWN HYDROCARBON	20.60	59000	J
4.	TRIMETHYLBENZENE ISOMER	21.61	34000	J
5.	C10H22 ISOMER	21.83	150000	J
6.	UNKNOWN	22.19	55000	J
7.	TRIMETHYLBENZENE ISOMER	22.82	120000	J
8.	METHYLETHYLBENZENE ISOMER	24.24	39000	J
9.	METHYLPROPYLBENZENE ISOMER	25.10	75000	J
10.	C4-BENZENE ISOMER	25.34	77000	J

N/K

CIP

L-102111001
R-102111001
1015

Reduced by: ✓ Date: 10/15/91
Reviewed by: RL Date: 10/22/91

Data File: >F2941
Page: 1
F2934
CLEAN

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

Sample: BALSAM 1014/-3 1UULX
Misc : V6 LRU9 5ULIS 10# UCL-1077-WA2 4.086/10ML 100991
Injected : 10/12/91 20:23 Units: UG/KG
Analyst: KERYLYNN Run Factor: 1250.00 ✓
ID File: MUBID6 Surrogate vol: 5.000
Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured (ug)	% Recovery Measured	QC Limits
CS15 D4-1,2-dichloroethane	25.00	18.56	74.2	70 121
CS05 D8-toluene	25.00	25.06	100	81 117
CS10 Bromofluorobenzene	25.00	22.54	90.2	74 121

Target Compounds: MUBID6

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
		BUL	C010 Chloromethane
		BUL	C020 Vinyl Chloride
		BUL	C015 Bromomethane
		BUL	C025 Chloroethane
		BUL	C045 1,1-Dichloroethene
		BUL	C035 Acetone
		BUL	C040 Carbon Disulfide
		BUL	C030 Methylene Chloride
		BUL	CXXX Tert-butyl alcohol
		BUL	C055 Trans-1,2-dichloroethene
		BUL	C055 Cis-1,2-dichloroethene
		BUL	CXXX Methyl tert-butyl ether
		BUL	C050 1,1-Dichloroethane
		BUL	C060 Chloroform
		BUL	C065 1,2-Dichloroethane
		BUL	C110 2-Butanone
		BUL	C125 Vinyl Acetate
494	14.157	<u>12000</u>	C115 1,1,1-Trichloroethane
494	2.257 SUG	2000	C120 Carbon Tetrachloride
		BUL	C165 Benzene
662	6.448	<u>7900</u>	C150 Trichloroethene
		BUL	C140 1,2-Dichloropropane
		BUL	C130 Bromodichloromethane
		BUL	C175 2-Chloroethylvinylether
		BUL	C145 Cis-1,3-Dichloropropene
		BUL	C172 Trans-1,3-dichloropropene
969	1.365 SUG	1200	C160 1,1,2-Trichloroethane

10/15/91

000044

Sample: PALSM 10147-3 10ULX

Scan #	Concentration		Compound
	Quant List	Sample	
	10UL	10ULX	
		BOL	C155 Dibromochloromethane
		BOL	C180 Bromoform
		BOL	C205 4-Methyl-2-pentanone
915	5.220	6400	C230 Toluene
		BOL	C210 2-Hexanone
		BOL	C220 Tetrachloroethane
		BOL	C235 Chlorobenzene
1275	74.643	92000	C240 Ethylbenzene
1275	69.924	75000	CXXX Xylenes (p)
1409	71.832	88000	CXXX Xylenes (o)
1409	2.137	2000 250	C245 Styrene
		BOL 3M 10.571	C225 1,1,2,2-Tetrachloroethane
		BOL	C335 Dichlorobenzene (m)
		BOL	C340 Dichlorobenzene (p)
		BOL	C350 Dichlorobenzene (o)
1306	375.503	460000	C250 Xylenes (total)

Diagnostic Quant Report

Data File: MF1941:06 Injected at: 08:25 10/12/91
 Start : 09:50 10/12/91
 ID File : M08106:MT Calibrated : 09:37 08/14/91

		- R.T. Info -						
Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
10	*C101 Bromochloromethane	7.74	7.30	.07	128.0	96769	1.3388	40.00
11	C012 Chloromethane	0.71	0.00	--	80.0	0	1.3182	0.00
12	C020 Vinyl Chloride	2.85	0.00	--	82.0	0	1.3229	0.00
13	C015 Bromomethane	3.25	0.00	--	94.0	0	1.2706	0.00
14	C025 Ethloroethane	3.36	0.00	--	64.0	0	.8066	0.00
15	C045 1,1-Dichloroethane	4.35	0.00	--	96.0	0	1.5349	0.00
16	C035 Acetone	4.41	0.00	--	43.0	0	.3024	0.00
17	C040 Carbon Disulfide	4.64	0.00	--	76.0	0	4.2106	0.00
18	C030 Methylene Chloride	4.99	0.00	--	84.0	0	1.7841	0.00
100	CXXX Tert-butyl alcohol	5.14	0.00	--	59.0	0	.0770	0.00
110	C053 Trans-1,2-dichloroet	5.36	0.00	--	96.0	0	1.8974	0.00
120	C055 Dis-1,2-dichloroethe	6.90	0.00	--	96.0	0	2.0428	0.00
130	CXXX Methyl tert-butyl et	5.36	0.00	--	73.0	0	3.2861	0.00
140	C050 1,1-Dichloroethane	5.98	0.00	--	63.0	0	3.5914	0.00
150	C060 Chloroform	7.44	0.00	--	87.0	0	3.9818	0.00
160	C065 1,2-Dichloroethane	8.48	0.00	--	62.0	0	2.3840	0.00
170	C110 2-Butanone	6.92	0.00	--	72.0	0	.1733	0.00
180	CS15 C4-1,2-dichloroethan	8.35	8.33	.02	65.0	13472	1.8749	3.71
190	*C110 1,4-Difluorobenzene	9.11	9.20	.09	114.0	522175	1.8000	50.00
200	C125 Vinyl Acetate	6.05	0.00	--	43.0	0	.4441	0.00
210	C115 1,1,1-Trichloroethan	7.78	7.77	.01	97.0	83513	.5648	14.16
220	C120 Carbon Tetrachloride	8.08	7.77	.31	117.0	11120	.2717	2.26
230	C165 Benzene	8.45	0.00	--	78.0	0	1.0551	0.00
240	C150 Trichloroethene	9.74	9.72	.02	130.0	28333	.4207	6.49
250	C140 1,2-Dichloropropane	10.22	0.00	--	63.0	0	.4143	0.00
260	C130 Bromodichloromethane	10.85	0.00	--	83.0	0	.6104	0.00
270	C175 2-Chloroethylvinylet	11.58	0.00	--	63.0	0	.2031	0.00
280	C143 Cis-1,3-Dichloroprop	11.91	0.00	--	75.0	0	.5792	0.00
290	C172 Trans-1,3-dichloropr	13.33	0.00	--	75.0	0	.4136	0.00
300	C160 1,1,2-Trichloroethan	13.80	13.30	.50	97.0	4783	.3355	1.37
310	C155 Dibromochloromethane	14.85	0.00	--	129.0	0	.4975	0.00
320	C180 Bromoform	19.08	0.00	--	173.0	0	.3912	0.00
330	*C120 O5-Chlorobenzene	16.32	16.40	.08	117.0	408818	1.0000	50.00
340	CS05 O8-Toluene	12.49	12.52	.03	98.0	48403	1.1812	5.01
350	C205 4-Methyl-2-pentanone	12.26	0.00	--	43.0	0	.3987	0.00
360	C230 Toluene	12.66	12.67	.01	92.0	37046	.8679	5.22
370	C210 2-Hexanone	14.47	0.00	--	43.0	0	.2733	0.00
380	C220 Tetrachloroethene	14.07	14.07	.00	164.0	1996	.4248	.57
390	C235 Chlorobenzene	16.47	0.00	--	112.0	0	1.0055	0.00
400	C240 Ethylbenzene	16.87	16.87	.00	106.0	308420	.5060	74.54
400D	C240 Ethylbenzene	16.87	17.23	.36	106.0	1428529	.5060	345.27
410	CXXX Xylenes (p)	17.25	16.87	.38	106.0	308420	.6191	60.92
410D	CXXX Xylenes (p)	17.25	17.23	.01	106.0	1428529	.6191	282.19
420	CXXX Xylenes (o)	18.43	18.44	.01	106.0	354138	.6030	71.83
430	C245 Styrene	18.49	18.43	.06	104.0	18263	1.0452	2.14
440D	C225 1,1,2,2-Tetrachloroe	20.67	20.58	.09	83.0	23962	.6267	000045
440	C225 1,1,2,2-Tetrachloroe	20.67	20.92	.25	83.0	1638	.6267	
440D	C225 1,1,2,2-Tetrachloroe	20.67	21.14	.47	83.0	5697	.6267	1.11
450	CS10 Bromofluorobenzene	20.08	20.06	.02	95.0	21227	.7490	3.47

490	0250	Dichlorobenzene (o)	25.20	0.00	--	146.0	0	1.5250	0.00
4910	0250	Xylenes (total)	18.43	16.87	1.56	106.0	308123	1.5927	63.53
4910	0250	Xylenes (total)	18.43	17.23	1.19	106.0	1417379	1.5927	290.41
491	0250	Xylenes (total)	18.43	17.23	1.19	106.0	1819793	1.5927	275.30
4910	0250	Xylenes (total)	18.43	21.30	2.87	106.0	14959	1.5927	3.07

* - Compound is an Internal Standard

Q - Compound Deleted

000047

Internal Standard Comparison

Sample: F2941 Date injected: 10/12/91 Standard: F2930

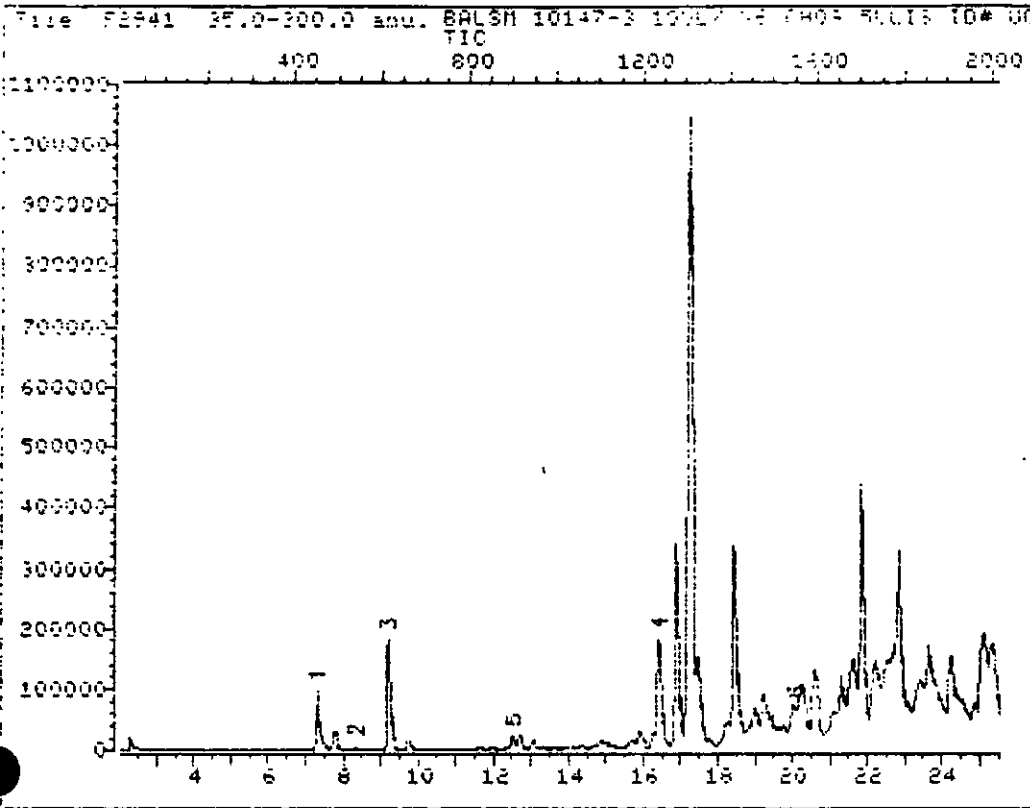
Internal Standard	Sample Area	Std Area	%
0001 Bromochloromethane	96769	67569	143.2
0008 1,4-Difluorobenzene	522176	380644	137.2
0009 05-Chlorobenzene	408818	313108	130.6

% = (Sample Area/Std Area)*100

* Area outside limits

000048

TOTAL ION CHROMATOGRAM



Data File: >F2941::D6

Quant Output File: ^F2941::D7

Name: BALSM 10147-3 10ULX

Instrument ID: U6

Misc: U6 CH09 5ULIS ID# UCC-10/7-QA2 4.086/10ML 100991

Id File: MOBID6::MT

Title: HSL UD/LATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911012 12:59

Operator ID: KERYLYNN

Quant Time : 911012 20:50

Injected at: 911012 20:23

000049

QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 9/10/12 10:40
 Output File: #0241:07 Injected at: 9/10/12 2:123
 Data File: #0241:06 Dilution Factor: 1.0000
 Name: BULKM 10/41-3 10MLX Instrument ID: 06
 Misc: 06 009 PULIS 10# UCC-10/7-0A2 4.096/10ML 100991

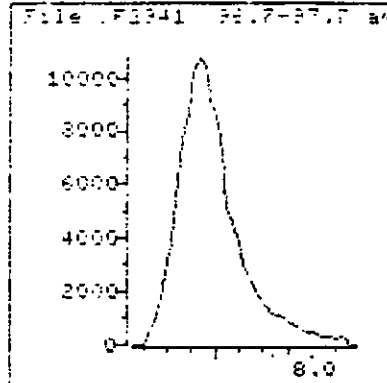
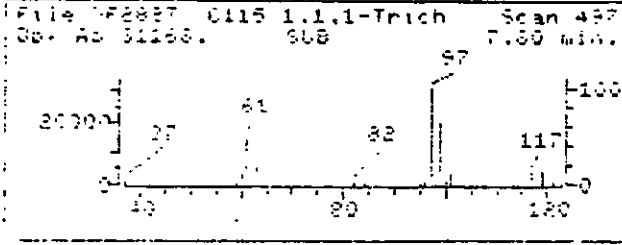
IO File: PHYSICAL.MT
 Title: HPL VOLATILES: 75m x .53mm: DBA24 06 FPC04ENB900
 Last Calibration: 910814 09:37 Last Cal Time: 9/10/12 12:57

	Compound	R.T.	Q	Ion	Area	Conc	Units	a
1)	*C101 Bromochloromethane	7.30	128.0		96769	50.00	UG/L	72
18)	CS15 D4-1,2-dichloroethane	8.33	65.0		13472	3.71	UG/L	88
19)	*C110 1,4-Difluorobenzene	9.20	114.0		522175	50.00	UG/L	100
21)	C115 1,1,1-Trichloroethane	7.77	97.0		93513	14.16	UG/L	89
22)	C120 Carbon Tetrachloride	7.77	117.0		11130	2.36	UG/L	98
24)	C150 Trichloroethene	9.72	130.0		28333	6.45	UG/L	95
30)	C160 1,1,2-Trichloroethane	13.30	97.0		4783	1.37	UG/L	69
33)	*C129 D5-Chlorobenzene	16.48	117.0		488818M	50.00	UG/L ¹⁰⁵	100
34)	CS05 D8-Toluene	12.52	98.0		48403	5.01	UG/L	99
37)	C230 Toluene	12.67	92.0		37046	5.22	UG/L	96
38)	C220 Tetrachloroethene	14.07	164.0		1996	.575	UG/L	70
40)	C240 Ethylbenzene	16.87	106.0		308420	74.54	UG/L	97
41)	CXXX Xylenes (p)	16.87	106.0		308420	60.92	UG/L	75
42)	CXXX Xylenes (o)	18.44	106.0		254138	71.85	UG/L ^{285 36}	97
43)	C245 Styrene	18.43	104.0		18263	2.14	UG/L	100
44)	C225 1,1,2,2-Tetrachloroethane	20.92	83.0		1638	.320	UG/L	61
45)	CS10 Bromofluorobenzene	20.06	95.0		21227	3.47	UG/L	84
49)	C250 Xylenes (total)	17.23	106.0		1819756M	375.50	UG/L ^u	94

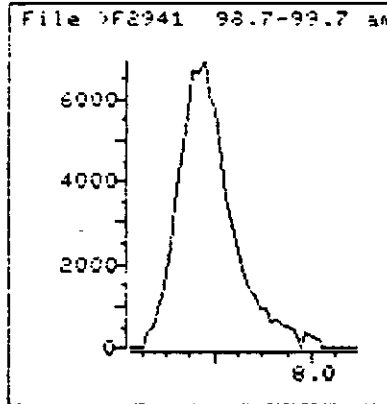
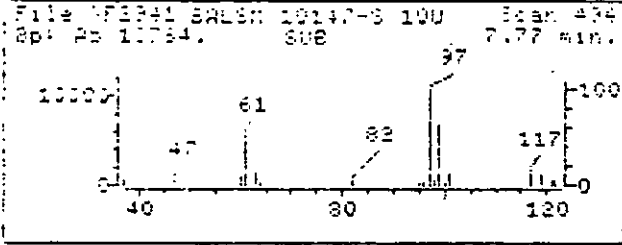
* Compound is ISTD

N
101791

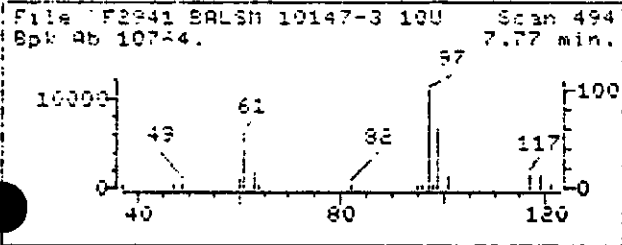
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

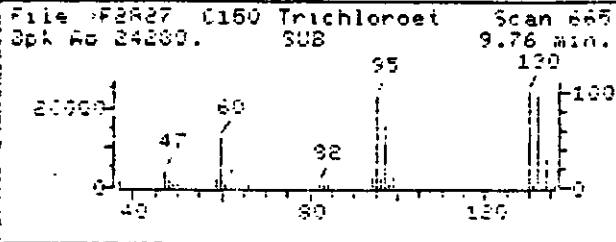


Data File: >F2941::D6
 Name: BALSU 10147-3 10ULX
 Misc: U6 CH09 5ULIS ID# UCC-10/7-QA2 4.08G/10ML 100991
 Quant Time: 911012 20:50
 Injected at: 911012 20:23
 Last Qual Time: 911012 12:59

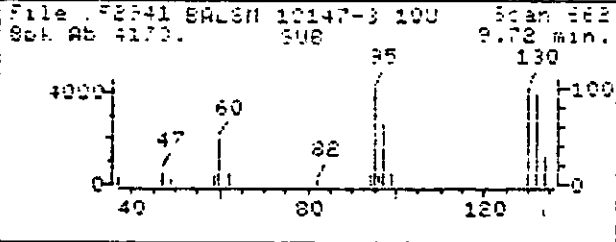
Quant Output File: ^F2941::D7
 Instrument ID: U6
 Quant ID File: MOBID6::MT
 Last Calibration: 910814 09:37

Compound No : 21
 Compound Name : C115 1,1,1-Trichloroethane
 Scan Number : 494
 Retention Time: 7.77 min.
 Quant Ion : 97.0
 Area : 83513
 Concentration : 14.16 UG/L
 q-value : -89

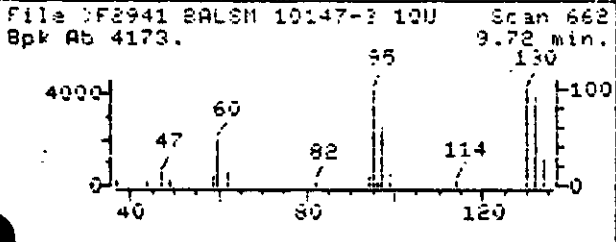
REFERENCE STANDARD SPECTRUM



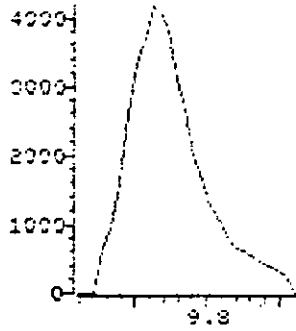
SAMPLE SPECTRUM (SAC) GROUND SUBTRACTED



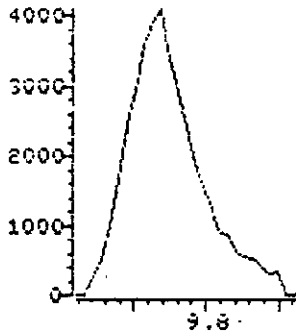
SAMPLE SPECTRUM (UNALTERED)



File >F2941 131.7-132.7



File >F2941 131.7-132.7

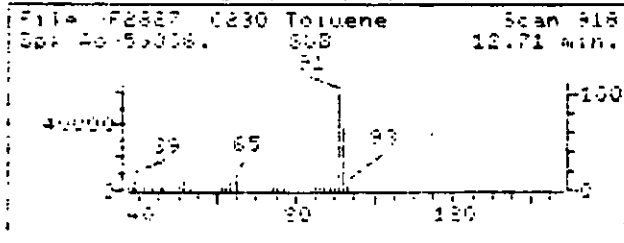


Data File: >F2941::06
 Name: BALSU 10147-3 10ULX
 Misc: U6 CH09 5ULIS ID# UCC-10/7-QA2 4.08G/1UML 100991
 Quant Time: 911012 20:50
 Injected at: 911012 20:23
 Last Qcal Time: 911012 12:59

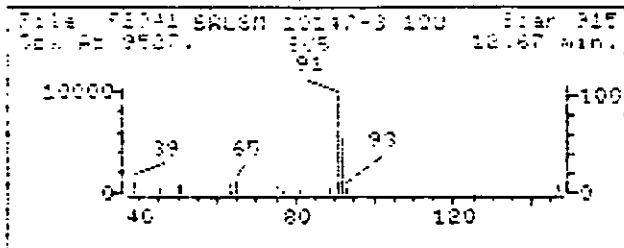
Quant Output File: ^F2941::07
 Instrument ID: U6
 Quant ID File: MCBID6::MT
 Last Calibration: 910814 09:37

Compound No : 24
 Compound Name : C150 Trichloroethene
 Scan Number : 662
 Retention Time: 9.72 min.
 Quant Ion : 130.0
 Area : 28333
 Concentration : 6.45 UG/L
 q-value : 95

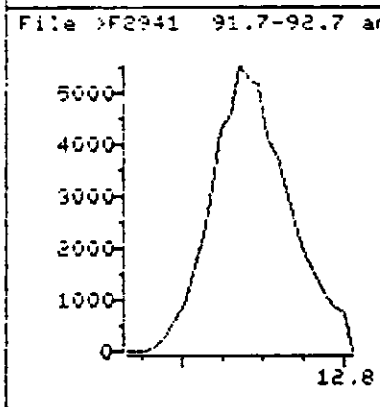
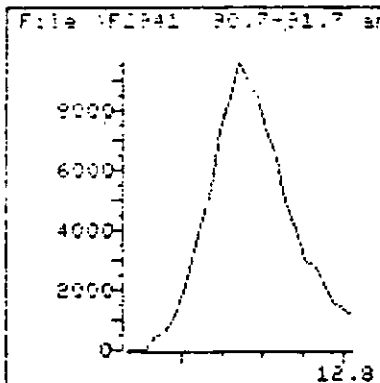
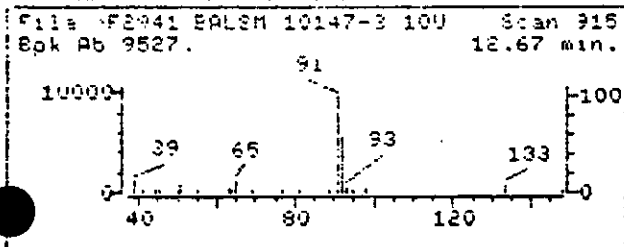
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (890-GROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

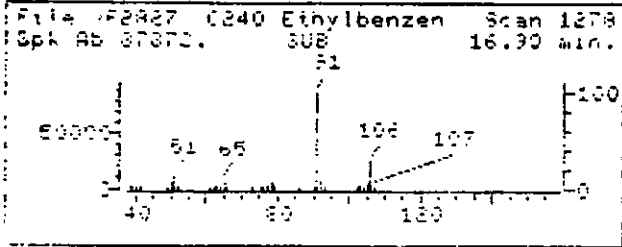


Data File: ^F2941::D6
Name: BALSU 10147-3 10ULX
Misc: U6 CH09 SULIS ID# UCC-10/7-QA2 4.08G/10ML 100991
Quant Time: 911012 20:50
Injected at: 911012 20:23
Last Qcal Time: 911012 12:59

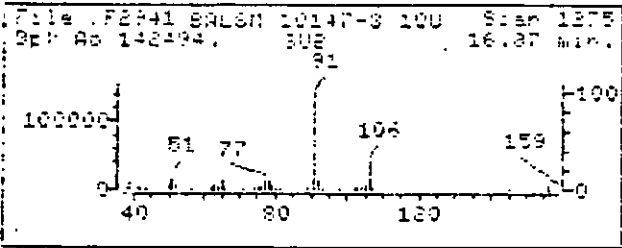
Quant Output File: ^F2941::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 36
Compound Name : C230 Toluene
Scan Number : 915
Retention Time: 12.67 min.
Quant Ion : 92.0
Area : 37046
Concentration : 5.16 UG/L
q-value : -95

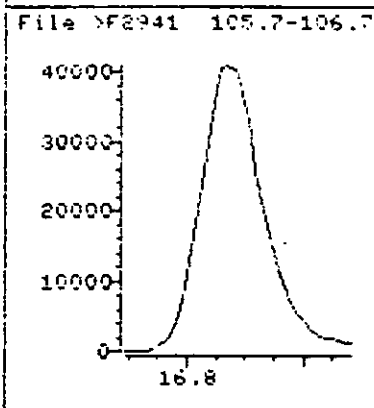
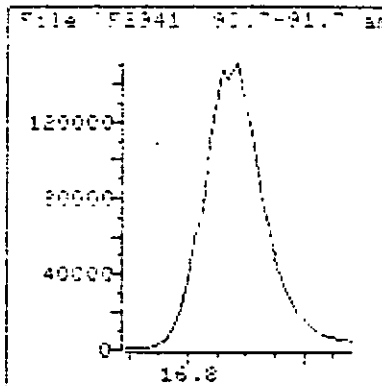
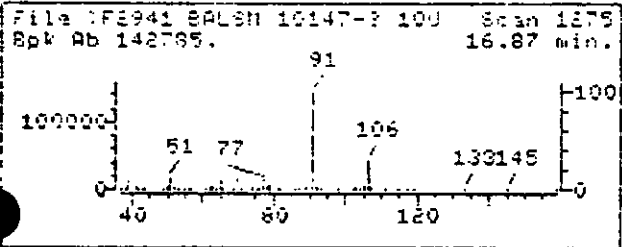
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (PEAK-GROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

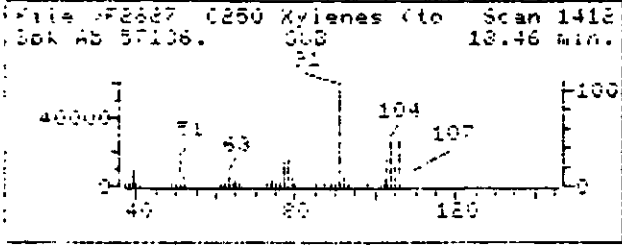


Data File: >F2941::D6
Name: BALSU 10147-3 10ULX
Misc: U6 CH09 5ULIS ID# UCC-10/7-QA2 4.08G/10ML 100991
Quant Time: 911012 20:50
Injected at: 911012 20:23
Last Qual Time: 911012 12:59

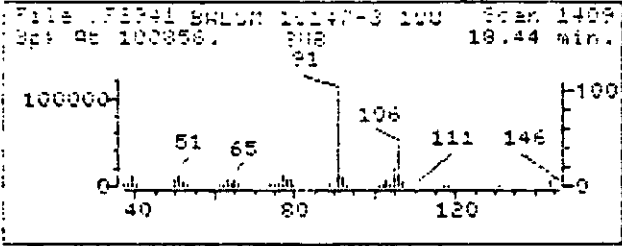
Quant Output File: ^F2941::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 40
Compound Name : C240 Ethylbenzene
Scan Number : 1275
Retention Time: 16.87 min.
Quant Ion : 106.0
Area : 308420
Concentration : 73.66 UG/L
q-value : 97

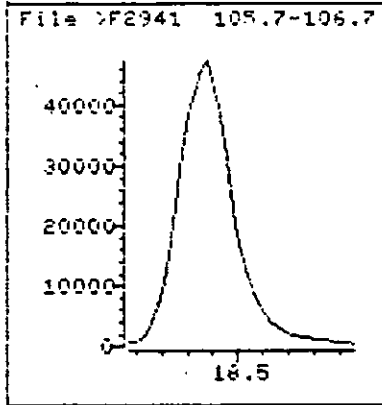
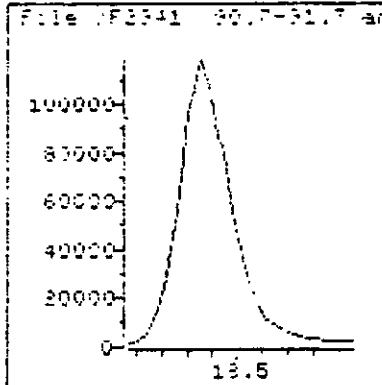
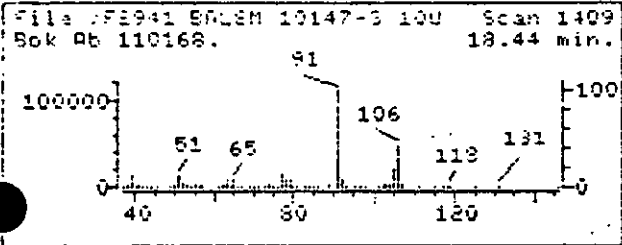
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (SCANS 66-100 SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2941::D6
Name: BALSM 10147-3 10ULX
Misc: U6 CH09 5ULIS ID# UCC-10/7-QA2 4.08G/10ML 100991
Quant Time: 911012 20:50
Injected at: 911012 20:23
Last Qcal Time: 911012 12:59

Quant Output File: ^F2941::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 49
Compound Name : C250 Xylenes (total)
Scan Number : 1409
Retention Time: 18.44 min.
Quant Ion : 106.0
Area : 350233
Concentration : 71.41 UG/L
q-value : 94

③ 101491
101491

Data Reduced by: M Date: 4/15
Data Reviewed by: Q Date: 10-22-91

Data File: >F2941

Enseco TIC Report (page 1)

Sample: BALSM 10147-3 100LX Run Factor: 1200.
Conditions: 06 CH99 50LIS ID# ULL-1047-0A2 Analyst: KERYLYNN

#	Scan	D	C	(UG/KG)	CHS #	Compound
①	1326.			50000.	111-84-2	Nonane C_9H_{20} ISOMER
②	1458.			24000.	15869-94-0	Octane, 3,6-dimethyl- UNK HEXANE OCTANE
③	1476.			32000.	1678-92-8	Cyclohexane, propyl C_9H_{18} ISOMER substituted cyclohexane
④	1594.			53000.	53966-53-3	3-Nonene, 2-methyl UNK known hydrocarbon
	1453.			24000.	611-14-3	Benzene, 1-ethyl-2-methyl C_9H_{12} ISOMER
⑥	1680.			30000.	95-63-6	Benzene, 1,2,4-trimethyl C_9H_{12} ISOMER
⑦	1699.			140000.	124-18-5	Decane UNK ALKANE $C_{10}H_{22}$ isomer
⑧	1730.			50000.	2972-05-6	Cyclobutanone, oxime UNK known
⑨	1784.			110000.	95-63-6	Benzene, 1,2,4-trimethyl C_9H_{12} ISOMER
⑩	1854.			22000.	1678-93-9	Cyclohexane, butyl- UNK
⑪	1905.			35000.	622-96-8	Benzene, 1-ethyl-4-methyl- C_9H_{12} ISOMER
⑫	1977.			68000.	1074-43-7	Benzene, 1-methyl-3-propyl- $C_{10}H_{14}$ ISOMER
⑬	1998.			69000.	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl $C_{10}H_{14}$ ISOMER Cy-benzene isomer

Enseco TIC Report (page 2)

$$\text{Concentration} = \text{Area(TIC)} \cdot \text{Conc. (IS)} / \text{Area (IS)}$$

#	Prob.	Cont.	Int. Std.	RR	RRF	Area	Height	Conc. Ms Analyzed (UG/L)
1	96	0	3	17.47	1.065	1033764.	137236.	41.032
2	86	2	3	19.01	1.159	523743.	46020.	20.788
3	75	19	3	19.22	1.172	664804.	64699.	26.387
4	55	44	3	20.60	1.256	1086957.	110336.	43.143
5	95	17	3	21.29	1.298	588183.	74710.	23.346
6	91	27	3	21.61	1.317	618148.	85462.	24.935
7	94	0	3	21.83	1.331	2845272.	386974.	112.934
8	36	26	3	22.19	1.353	1022526.	96845.	40.586
9	83	46	3	22.82	1.391	2196302.	257971.	87.175
10	79	10	3	23.64	1.441	454148.	66442.	19.026
11	96	13	3	24.24	1.479	726762.	93706.	28.847
12	76	39	3	25.09	1.529	1385483.	132330.	54.992
13	91	31	3	25.33	1.544	1415522.	117053.	56.185

IC Internal Standard Report

Data File: >F2941

Minimum separation of PIC and Quan ion peaks: 7.
Minimum PIC peak area as % of est. PIC area: 50.
Maximum PIC peak area as % of est. PIC area: 200.

#	Name	Concentration	Flag		
Q scan	Q area	PQratio	PIC scan	PIC area	% Est. PIC
1	CI01 Bromochlorometh	50.000 UG/L	Ok		
454.	96769.	6.987	454.	687344.	101.657
2	CI10 1,4-Difluoroben	50.000 UG/L	Ok		
617.	522175.	2.300	617.	1196495.	99.635
3	CI20 D5-Chlorobenzen	50.000 UG/L	Ok		
1235.	413740.	3.615	1235.	1259704.	84.229

Deleting peaks from INT file: UDIR87

Minimum area: 10 % of area of closest Int. Std.

Number of peaks: 19

Number of peaks remaining: 19

Deleting target compounds from INT file: UDIR87

Minimum separation of TIC and target: 5.

Maximum fraction of PIC peak from targets: 40. %

Number of peaks: 19

Number of peaks remaining: 13

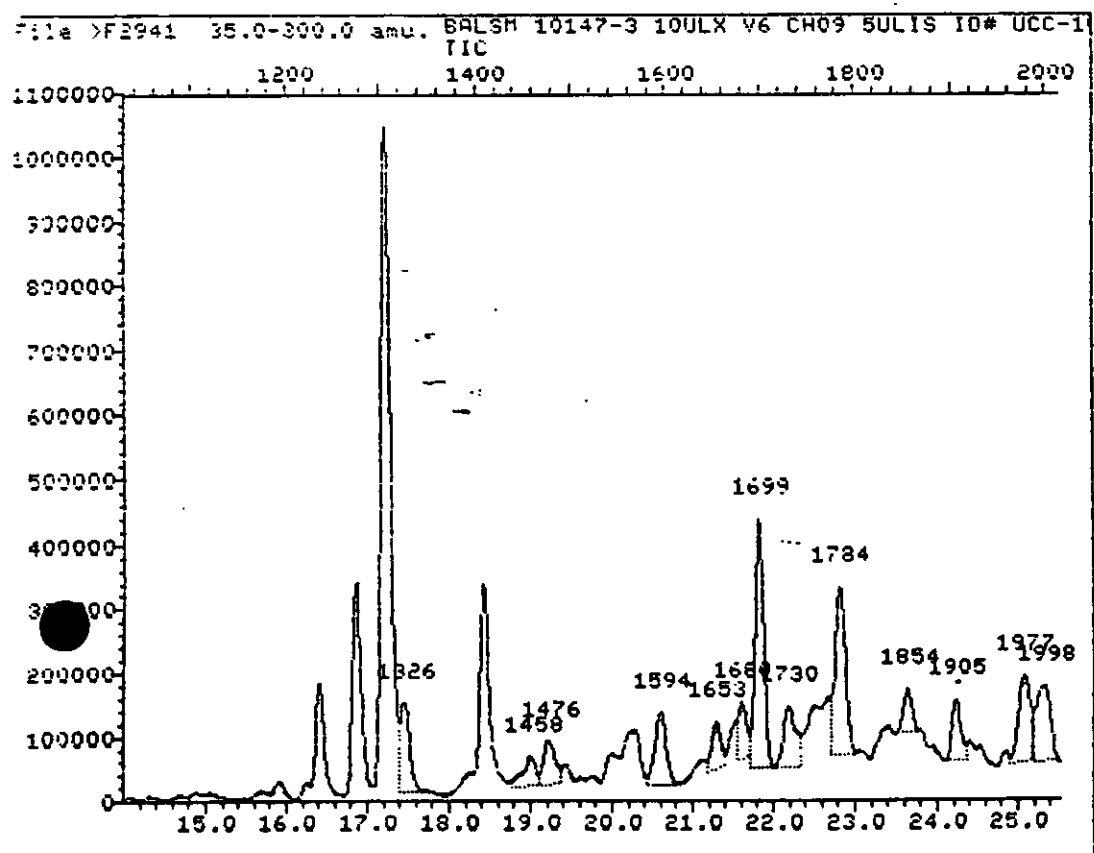
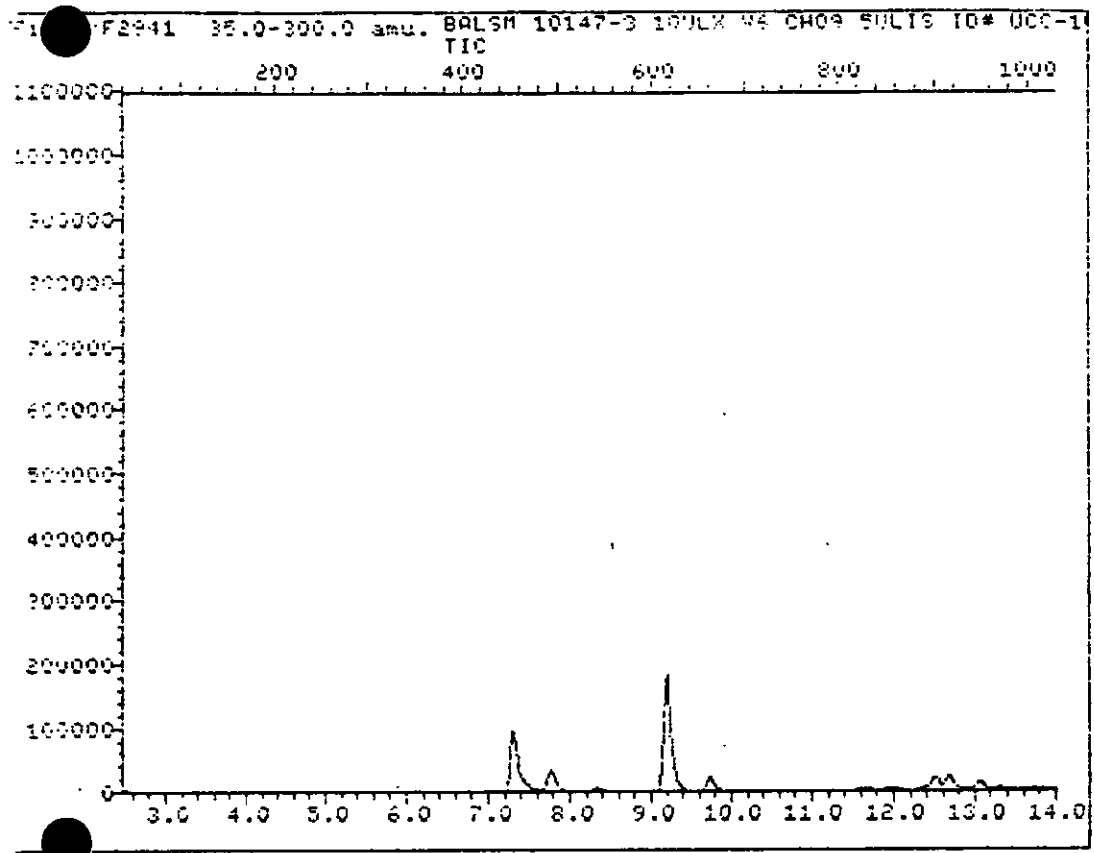
Deleting all but largest peaks from INT file: UDIR87

Maximum number of peaks to keep: 15

Number of peaks: 13

Maximum number of peaks > number of peaks.

000058



000059

C₉H₂₀ ISOMER

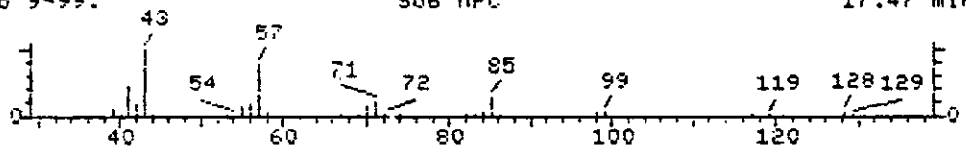
NUMBER: 1

- | | |
|---------------------------------------|--------------------------------------|
| 1. Nonane (8CI9CI) | 128 C ₉ H ₂₀ |
| 2. Heptane, 2,4-dimethyl- (8CI9CI) | 128 C ₉ H ₂₀ |
| 3. Octane, 2,4,6-trimethyl- (9CI) | 156 C ₁₁ H ₂₄ |
| 4. Heptane, 3,5-dimethyl- (8CI9CI) | 128 C ₉ H ₂₀ |
| 5. Heptane, 2,5-dimethyl- (8CI9CI) | 128 C ₉ H ₂₀ |
| 6. 3-Hexanone, 2,4-dimethyl- (8CI9CI) | 128 C ₈ H ₁₆ O |

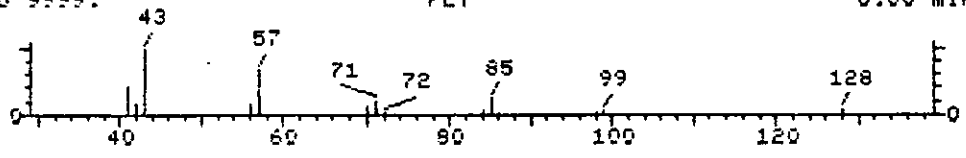
Sample file: F2941 Spectrum #: 1326
 Search speed: 2 Tilting option: S No. of ion ranges searched: 1

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	F_I	
1.	96*	111842	6110	"BIGDB	88	8	0	0	89	0	72	96
2.	63*	2213232	5920	"BIGDB	60	32	0	0	79	46	20	73
3.	60	62016379	6004	"BIGDB	39	46	2	0	77	12	30	13
4.	57*	926829	8724	"BIGDB	37	45	0	0	55	33	22	42
5.	52*	2216300	8730	"BIGDB	35	51	0	0	52	33	20	36
6.	52*	18641708	6120	"BIGDB	29	56	1	0	75	19	20	16

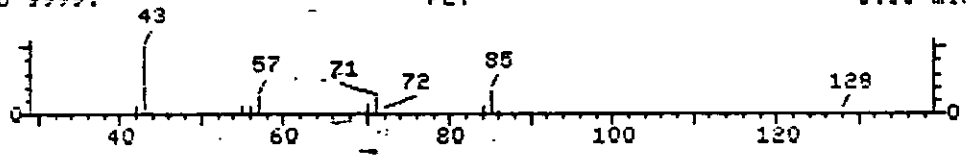
File: F2941 BALSM 10147-3 10ULX V6 CH09 SULIS ID# UCC-10/7-09 Scan 1326
 Spk Ab 9999. SUB MPC 17.47 min.



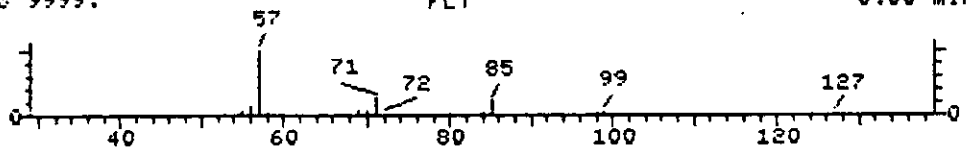
File: "BIGDB Nonane (8CI9CI) Scan 6110
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Heptane, 2,4-dimethyl- (8CI9CI) Scan 5920
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Octane, 2,4,6-trimethyl- (9CI) Scan 6004
 Spk Ab 9999. FLT 0.00 min.



000060

C9H18 substituted
 cyclohexane
 ISOMER 12
10/1/12

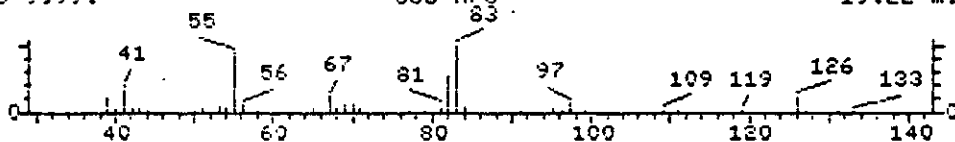
TITLE NUMBER: 3

- | | |
|---|------------|
| 1. Cyclohexane, propyl- (8CI9CI) | 126 C9H18 |
| 2. Cyclohexane, (1-methylethyl)- (9CI) | 126 C9H18 |
| 3. Cyclohexane, 2-propenyl- (9CI) | 124 C9H16 |
| 4. 2-Hexene, 4,4,5-trimethyl- (9CI) | 126 C9H18 |
| 5. Cyclohexane, octyl- (9CI) | 196 C14H28 |
| 6. Cyclopentane, 1-ethyl-1-methyl- (8CI9CI) | 112 C8H16 |

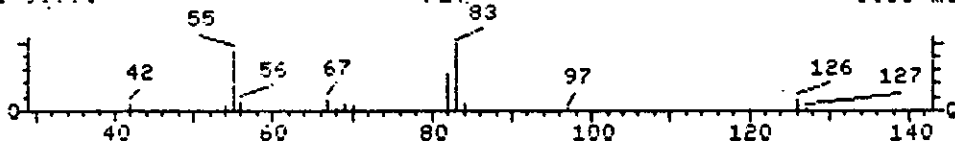
Sample file: F2941 Spectrum #: 1476
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	1678928	5625	"BIGDB	54	43	0	0	74	19	35	66
2.	696297	5414	"BIGDB	51	52	1	0	63	39	17	34
3.	2114423	5622	"BIGDB	54	45	2	0	93	23	17	14
4.	55702619	5569	"BIGDB	38	45	0	0	100	47	12	44
5.	1795159	5581	"BIGDB	72	36	3	0	100	35	12	14
6.	16747505	5582	"BIGDB	60	44	2	0	78	38	10	14

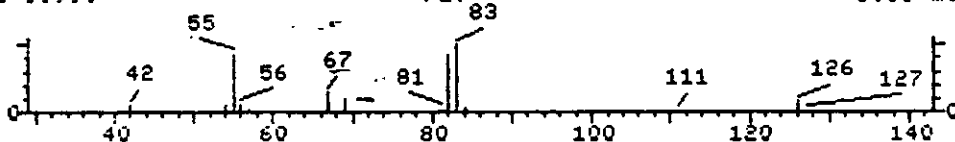
File: F2941 BALSM 10147-3 10ULX V6 CH09 5ULIS 10# UCC-10-7-QA Scan 1476
 Spk Ab 9999. SUB MPC 19.22 min.



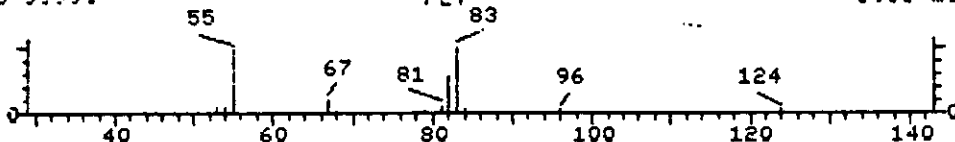
File: "BIGDB Cyclohexane, propyl- (8CI9CI) Scan 5625
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Cyclohexane, (1-methylethyl)- (9CI) Scan 5414
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Cyclohexane, 2-propenyl- (9CI) Scan 5622
 Spk Ab 9999. FLT 0.00 min.



000061

terpenes hydrocarbon
el

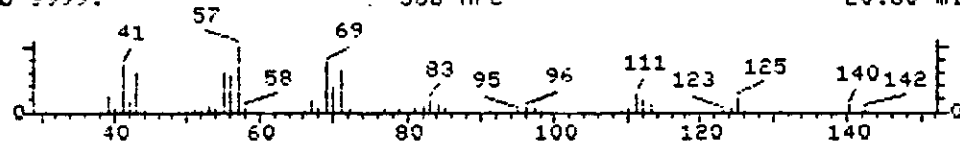
TIC NUMBER: 4

- | | |
|---|------------|
| 1. 3-Nonene, 2-methyl- (9CI) | 140 C10H20 |
| 2. Cyclohexane, 1,1,2-trimethyl- (8CI9CI) | 136 C9H18 |
| 3. 2-Octene, 2,6-dimethyl- (8CI9CI) | 140 C10H20 |
| 4. Cyclopentane, 1,1,3,4-tetramethyl-, cis- (9CI) | 126 C9H18 |
| 5. 3-Octene, 2,6-dimethyl- (8CI9CI) | 140 C10H20 |
| 6. 1-Octene, 3,7-dimethyl- (8CI9CI) | 140 C10H20 |

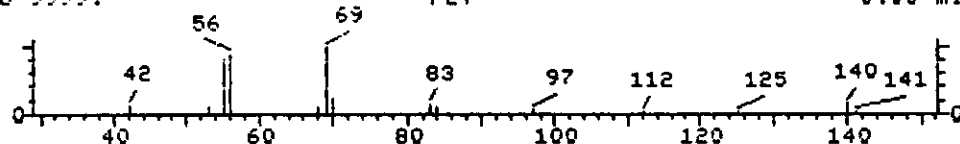
Sample file: >F2941 Spectrum #: 1594
Search speed: 2 Tilting option: S No. of ion ranges searched: 50

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV	
1.	55*	53966533	1119	"BIGDB	63	43	1	0	63	44	18	60
2.	47*	7094260	10632	"BIGDB	59	49	0	0	64	52	16	72
3.	42*	4057425	3742	"BIGDB	49	55	1	0	60	40	14	29
4.	41*	53907601	10646	"BIGDB	52	56	1	0	54	41	14	35
5.	40*	6874288	3743	"BIGDB	52	56	2	0	65	39	14	27
6.	38*	4984014	3660	"BIGDB	50	43	0	0	49	55	11	60

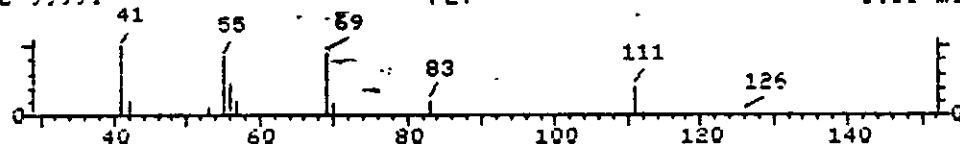
File >F2941 BALSM 10147-3 10ULX V6 CH09 SULIS ID# UCC-10-7-QA Scan 1594
Spk Ab 9999. SUB MPC 20.60 min.



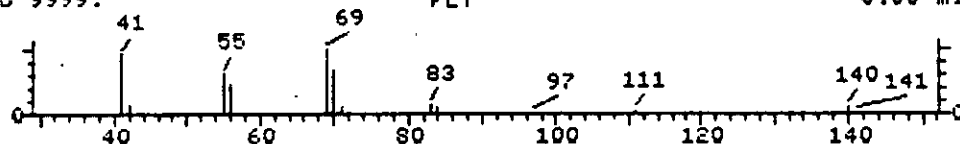
File "BIGDB 3-Nonene, 2-methyl- (9CI) Scan 1119
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, 1,1,2-trimethyl- (8CI9CI) Scan 10632
Spk Ab 9999. FLT 0.00 min.



File "BIGDB 2-Octene, 2,6-dimethyl- (8CI9CI) Scan 3742
Spk Ab 9999. FLT 0.00 min.



000062

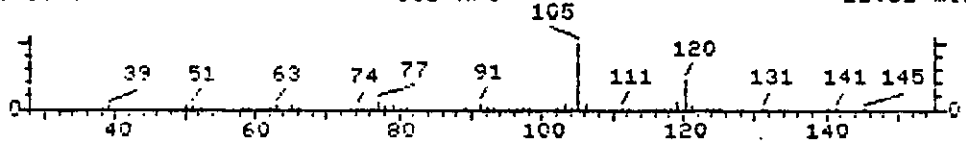
TIC NUMBER: 6

- | | |
|---|-----------|
| 1. Benzene, 1,2,4 -trimethyl- (8C19C1) <i>isomer</i> | 120 C9H12 |
| 2. Benzene, 1,3,5-trimethyl- (9CI) <i>e</i> | 120 C9H12 |
| 3. Benzene, 1-ethyl-3-methyl- (9CI) | 120 C9H12 |
| 4. Benzene, 1-ethyl-4-methyl- (9CI) | 120 C9H12 |
| 5. Benzene, 1-ethyl-2-methyl- (9CI) | 120 C9H12 |
| 6. Benzene, (1-methylethyl)- (9CI) | 120 C9H12 |

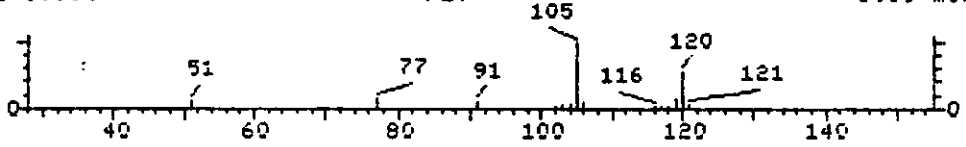
Sample file: >F2941 Spectrum #: 1680
 Search speed: 2 Tilting option: S No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU	
1.	91*	95636	12273	"BIGDB	77	18	0	0	53	27	57	93
2.	89*	108678	12275	"BIGDB	72	16	2	1	70	3	65	56
3.	84*	620144	12267	"BIGDB	68	19	2	0	100	8	55	60
4.	83*	622968	12268	"BIGDB	64	21	0	0	83	22	47	83
5.	73*	611143	12266	"BIGDB	64	21	0	-2	70	22	32	65
6.	59*	93828	12259	"BIGDB	49	38	2	0	87	22	27	30

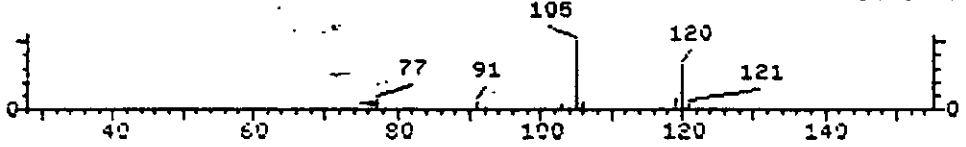
File >F2941 SALS 10147-3 10ULM V6 CH09 5ULIS ID# UCC-1077-0A Scan 1680
 Spk Ab 9999. SUB MPC 21.61 min.



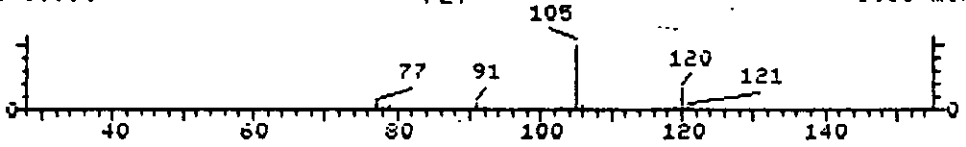
File "BIGDB Benzene, 1,2,4-trimethyl- (8C19C1) Scan 12273
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1,3,5-trimethyl- (9CI) Scan 12275
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-3-methyl- (9CI) Scan 12267
 Spk Ab 9999. FLT 0.00 min.



000063

UNK
Alkane

142 C10H22 *isomer*
142 C10H22
170 C12H26
156 C11H24
144 C13H28
142 C10H22
R₁₀₋₂₂ 41

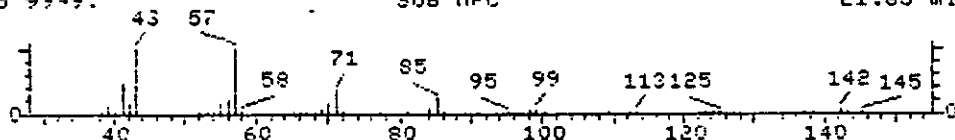
FILE NUMBER: 7

1. Decane (8C19C1)
2. Nonane, 2-methyl- (8C19C1)
3. Undecane, 3-methyl- (8C19C1)
4. Octane, 2,4,6-trimethyl- (9C11)
5. Decane, 2,5,9-trimethyl- (9C11)
6. Octane, 2,7-dimethyl- (8C19C1)

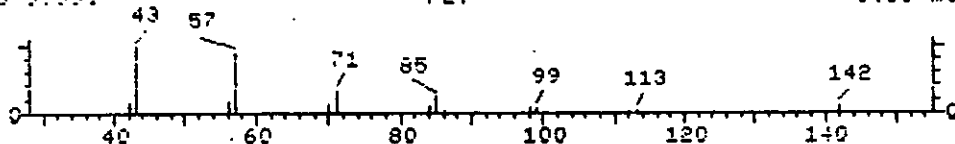
Sample file: >F2941 Spectrum #: 1699
Search speed: 2 Tilting option: S No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	124185	16061	"BIGDB	91	9	1	2	90	0	72	92
2.	70*	871830	8635	"BIGDB	42	54	3	0	99	10	42	13
3.	70	1002433	6148	"BIGDB	47	41	2	0	68	9	42	16
4.	67	62016379	6004	"BIGDB	62	23	2	0	100	11	34	22
5.	66	62108229	3927	"BIGDB	63	28	0	0	100	17	31	40
6.	60*	1072168	8726	"BIGDB	38	57	3	0	99	13	30	13

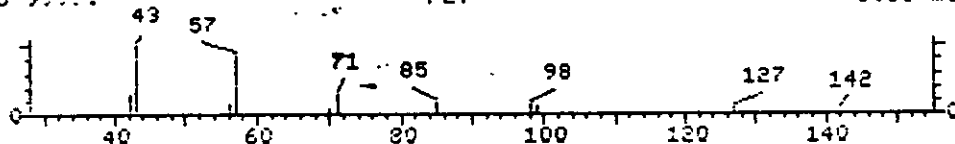
File: F2941 BALSH 10147-3 10ULM V6 CH09 EULIS ID# UCC-10/7-0R Scan 1699
Spk Ab 9999. SUB MPC 21.83 min.



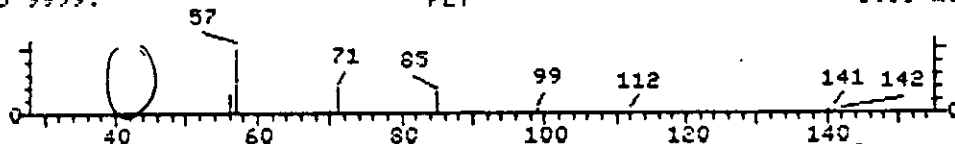
File: "BIGDB Decane (8C19C1) Scan 16061
Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Nonane, 2-methyl- (8C19C1) Scan 8635
Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Undecane, 3-methyl- (8C19C1) Scan 6148
Spk Ab 9999. FLT 0.00 min.



000064

unk

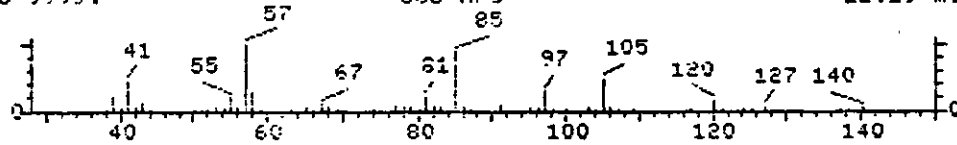
TIC NUMBER: 8

- | | |
|----------------------------------|-----------|
| 1. Cyclobutanone, oxime (8CI9CI) | 85 C4H7NO |
| 2. Isothiazole (8CI9CI) | 85 C4H3NS |
| 3. 1-Penten-3-ol (8CI9CI) | 85 C5H10O |
| 4. 2-Pyrrolidinone (8CI9CI) | 85 C4H7NO |

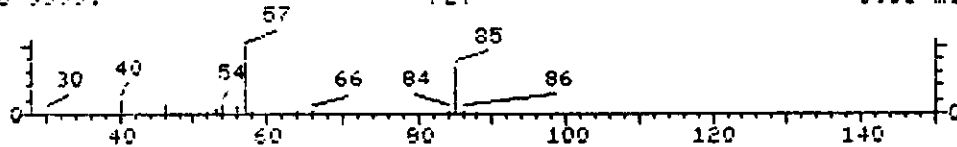
Sample file: >F2941 Spectrum #: 1730
Search speed: 2 Tilting option: S No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_I	
1.	36*	2972056	5957	"BIGDB	21	75	2	0	100	26	14	13
2.	20*	288164	5907	"BIGDB	26	29	2	0	67	94	5	14
3.	15*	616251	136	"BIGDB	26	71	2	0	100	57	3	14
4.	15*	616455	5953	"BIGDB	23	68	2	0	88	60	3	13

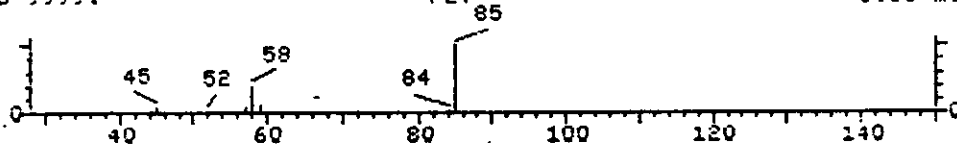
File >F2941 BALSM 10147-3 10ULX V6 CH09 5ULIS 10# UCC-1017-0A Scan 1730
Spk Ab 9999. SUB MPC 22.19 min.



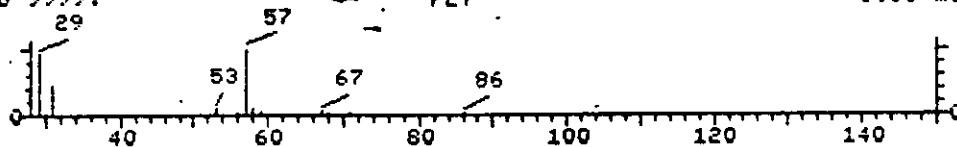
File "BIGDB Cyclobutanone, oxime (8CI9CI) Scan 5957
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Isothiazole (8CI9CI) Scan 5907
Spk Ab 9999. FLT 0.00 min.



File "BIGDB 1-Penten-3-ol (8CI9CI) Scan 136
Spk Ab 9999. FLT 0.00 min.



000065

C₉H₁₂ ISOMER

TOC NUMBER: 9

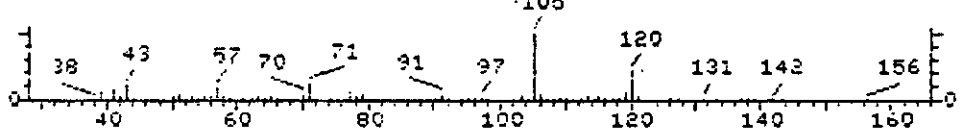
- | | |
|---|------------------------------------|
| 1. Benzene, 1,2,4 -trimethyl- (8CI9CI) <i>isomer</i> | 120 C ₉ H ₁₂ |
| 2. Benzene, 1,3,5-trimethyl- (9CI) | 120 C ₉ H ₁₂ |
| 3. Benzene, 1-ethyl-4-methyl- (9CI) | 120 C ₉ H ₁₂ |
| 4. Benzene, 1,2,3-trimethyl- (8CI9CI) | 120 C ₉ H ₁₂ |
| 5. Benzene, (1-methylethyl)- (9CI) | 120 C ₉ H ₁₂ |
| 6. 1,3-Cyclopentadiene, 5-(1-methylpropylidene)- (9CI) | 120 C ₉ H ₁₂ |

10-2-91

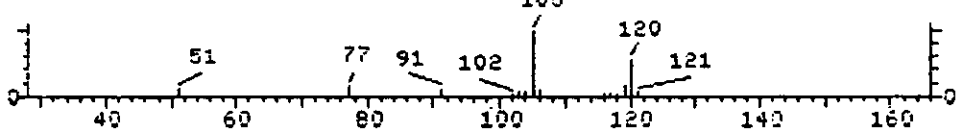
Sample file: >F2941 Spectrum #: 1784
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IV
1.	95636	12273	"BIGDB	78	17	0	0	63	46	40	93
2.	108678	12275	"BIGDB	78	10	2	0	69	23	41	72
3.	622968	12268	"BIGDB	64	21	1	0	84	39	28	72
4.	526738	12280	"BIGDB	74	26	1	0	63	46	20	72
5.	98828	12259	"BIGDB	56	31	0	0	72	46	14	67
6.	3141024	12286	"BIGDB	53	51	2	0	56	46	10	28

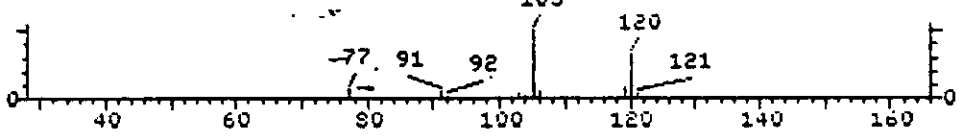
File >F2941 SALSM 10147-3 10ULK VS CH09 BULIS ID# UCC-1077-0A Scan 1784
 Spk Ab 9999. SUB MPC 22.82 min.



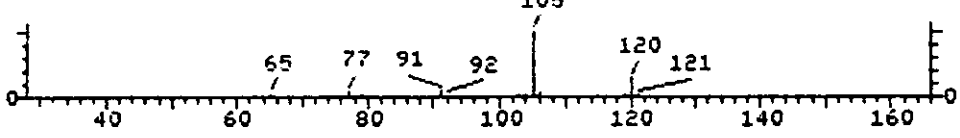
File "BIGDB Benzene, 1,2,4-trimethyl- (8CI9CI) Scan 12273
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1,3,5-trimethyl- (9CI) Scan 12275
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-4-methyl- (9CI) Scan 12268
 Spk Ab 9999. FLT 0.00 min.



*C9H12
ISOMER*

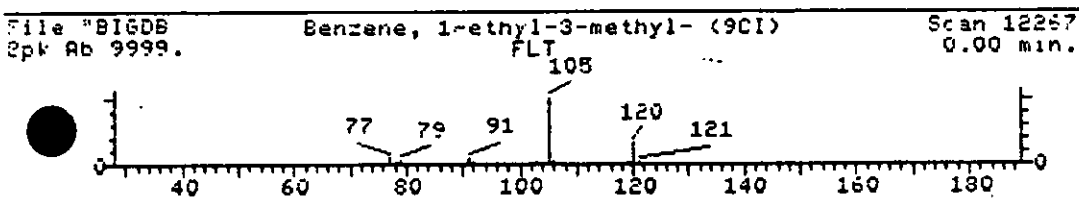
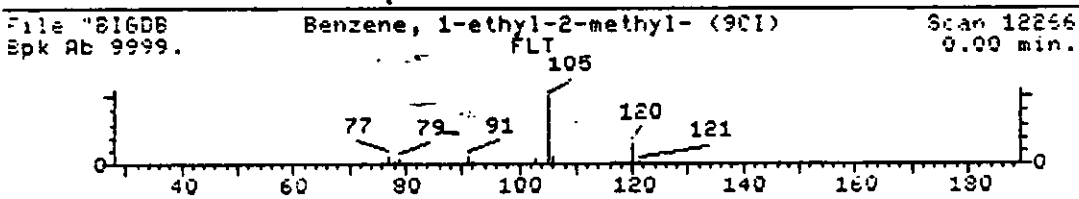
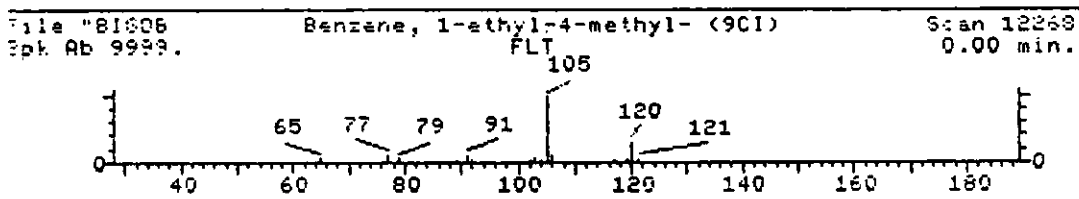
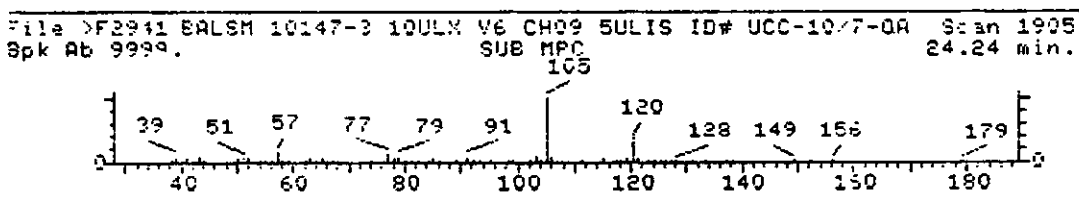
TIC NUMBER: 11

- | | |
|---|-----------|
| 1. Benzene, 1-ethyl-4-methyl- (9CI) <i>isomer</i> | 120 C9H12 |
| 2. Benzene, 1-ethyl-2-methyl- (9CI) | 120 C9H12 |
| 3. Benzene, 1-ethyl-3-methyl- (9CI) | 120 C9H12 |
| 4. Benzene, 1,2,3-trimethyl- (8CI)(9CI) | 120 C9H12 |
| 5. Benzene, (1-methylethyl)- (9CI) | 120 C9H12 |
| 6. Benzene, 1,3,5-trimethyl- (9CI) | 120 C9H12 |

R 11 20 91

Sample file: >F2941 Spectrum #: 1905
 Search speed: 2 Tilting option: S No. of ion ranges searched: 61

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	622968	12268	"BIGDB	78	7	0	0	90	13	64	97
2.	611143	12266	"BIGDB	69	16	0	0	79	13	64	94
3.	620144	12267	"BIGDB	73	14	1	0	82	13	64	92
4.	526738	12280	"BIGDB	69	31	0	0	51	41	33	86
5.	98928	12259	"BIGDB	60	27	1	0	84	13	43	60
6.	108678	12275	"BIGDB	57	31	1	0	51	41	17	53



000067

CIDH14
ISOMER

FILE NUMBER: 12

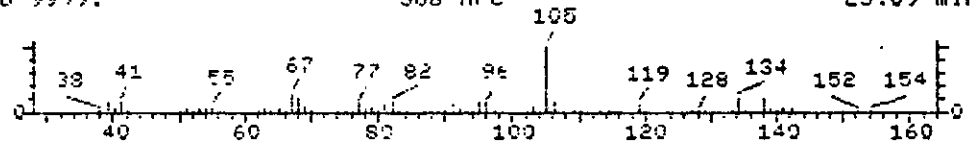
- | | |
|--|------------|
| 1. Benzene, γ -methyl- β -propyl- (9CI) <i>isomer</i> | 134 C10H14 |
| 2. Benzene, 1-methyl-2-propyl- (9CI) | 134 C10H14 |
| 3. Benzene, 1-methyl-4-propyl- (9CI) | 134 C10H14 |
| 4. Benzene, (1-methylpropyl)- (9CI) | 134 C10H14 |
| 5. Benzene, (1,2,2-trimethyl-3-butenyl)- (9CI) | 174 C15H18 |
| 6. 2,4-Heptadien-6-ynal, (E,E)- (8CI9CI) | 186 C7H6O |

12-10-21

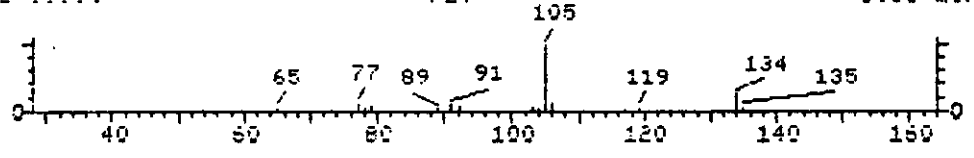
Sample file: >F2941 Spectrum #: 1977
 Search speed: 2 Tilting option: S No. of ion ranges searched: 49

Prob.	CAS #	CUN #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IO	
1.	76*	1074437	14464	"BIGDB	70	17	1	0	92	39	37	80
2.	69*	1974175	14463	"BIGDB	65	20	1	0	100	40	28	73
3.	68*	1074551	14465	"BIGDB	62	21	1	0	89	40	28	72
4.	53*	135988	14469	"BIGDB	58	28	2	0	80	40	19	44
5.	20	61142174	9915	"BIGDB	37	49	2	0	100	52	5	12
6.	20*	7200046	9911	"BIGDB	29	59	2	0	69	52	5	14

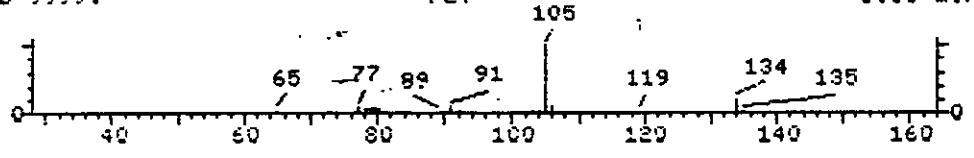
File >F2941 BALS 10147-3 10ULR "6 CH09 SULIS ID# UCC-10/7-OR Scan 1977
 Spk Ab 9999. SUB MPC 25.09 min.



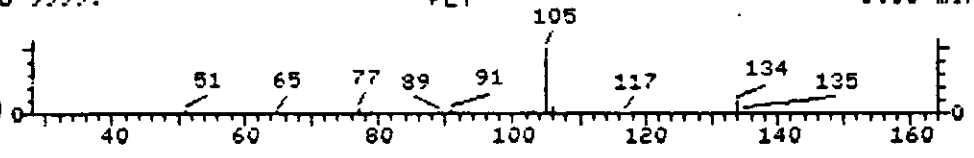
File "BIGDB Benzene, 1-methyl-3-propyl- (9CI) Scan 14464
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-methyl-2-propyl- (9CI) Scan 14463
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-methyl-4-propyl- (9CI) Scan 14465
 Spk Ab 9999. FLT 0.00 min.



000068

Cy Benzene
~~*C10H14*~~
ISOMER

12
10-22-91

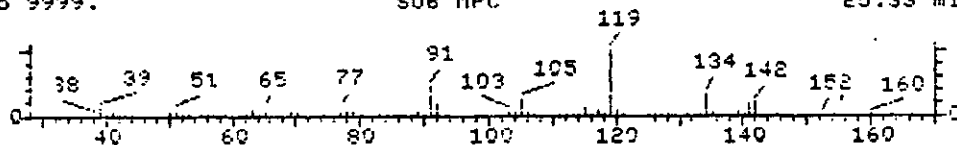
CID NUMBER: 13

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

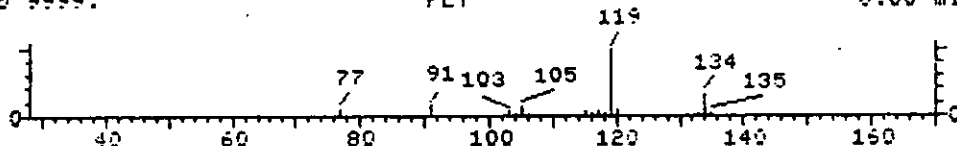
Sample file: >F2941 Spectrum #: 1998
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	91*	1758889	12181	"BIGDB	29	15	0	0	91	31	50	95
2.	78*	935773	12170	"BIGDB	67	22	0	0	97	35	40	80
3.	77*	934805	12173	"BIGDB	66	27	0	0	88	34	32	78
4.	75*	933982	12172	"BIGDB	72	19	1	0	100	31	32	76
5.	73*	527844	12169	"BIGDB	72	20	1	0	98	32	32	73
6.	63*	25155151	12177	"BIGDB	61	29	2	0	99	35	22	48

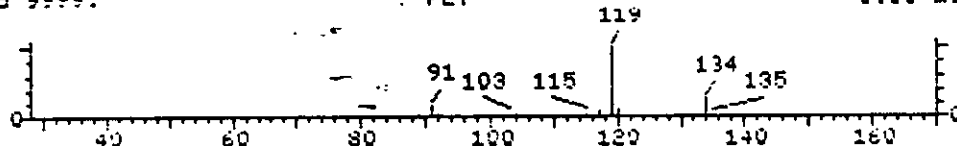
File >F2941 BALSM 10147-3 10ULX VS CH09 FULIS IO# UCC-10.7-0R Scan 1998
 Spt Ab 9999. SUB MPC 25.33 min.



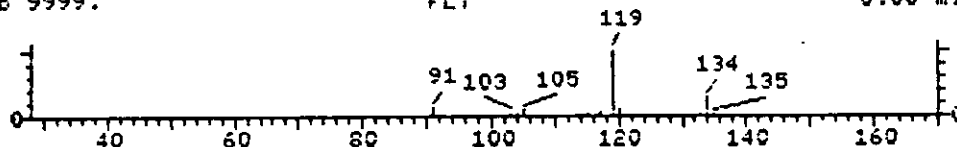
File "BIGDB Benzene, 2-ethyl-1,4-dimethyl- (9CI) Scan 12181
 Spt Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-methyl-3-(1-methylethyl)- (9CI) Scan 12170
 Spt Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 4-ethyl-1,2-dimethyl- (9CI) Scan 12173
 Spt Ab 9999. FLT 0.00 min.



000069

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-7-QA2DL

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-03DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B3028

Level: (low/med) MED Date Received: 10/08/91

% Moisture: not dec. 10 Date Analyzed: 10/16/91

Column: (pack/cap) CAP Dilution Factor: 100

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	140000	U
74-83-9-----	Bromomethane	140000	U
75-01-4-----	Vinyl Chloride	140000	U
75-00-3-----	Chloroethane	140000	U
75-09-2-----	Methylene Chloride	68000	U
67-64-1-----	Acetone	140000	U
75-15-0-----	Carbon Disulfide	68000	U
75-35-4-----	1,1-Dichloroethene	68000	U
75-34-3-----	1,1-Dichloroethane	68000	U
540-59-0-----	1,2-Dichloroethene (total)	68000	U
67-66-3-----	Chloroform	68000	U
107-06-2-----	1,2-Dichloroethane	68000	U
78-93-3-----	2-Butanone	56000	BDJ
71-55-6-----	1,1,1-Trichloroethane	36000	BDJ
56-23-5-----	Carbon Tetrachloride	68000	U
108-05-4-----	Vinyl Acetate	140000	U
75-27-4-----	Bromodichloromethane	68000	U
78-87-5-----	1,2-Dichloropropane	68000	U
10061-01-5-----	cis-1,3-Dichloropropene	68000	U
79-01-6-----	Trichloroethene	68000	U
124-48-1-----	Dibromochloromethane	68000	U
79-00-5-----	1,1,2-Trichloroethane	68000	U
71-43-2-----	Benzene	68000	U
10061-02-6-----	trans-1,3-Dichloropropene	68000	U
110-75-8-----	2-Chloroethylvinylether	140000	U
75-25-2-----	Bromoform	68000	U
108-10-1-----	4-Methyl-2-Pentanone	140000	U
591-78-6-----	2-Hexanone	140000	U
127-18-4-----	Tetrachloroethene	68000	U
79-34-5-----	1,1,2,2-Tetrachloroethane	68000	U
108-88-3-----	Toluene	68000	U
108-90-7-----	Chlorobenzene	68000	U
100-41-4-----	Ethylbenzene	110000	D
100-42-5-----	Styrene	68000	U
1330-20-7-----	Xylene (total)	520000	D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-7-QA2DL

Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-03DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B3028

Level: (low/med) MED Date Received: 10/08/91

% Moisture: not dec. 10 Date Analyzed: 10/16/91

Column (pack/cap) CAP Dilution Factor: 100

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	17.70	73000	J
2.	UNKNOWN ALKANE	20.48	69000	J
3.	UNKNOWN ALKANE	22.12	390000	J
4.	UNKNOWN ALKANE	23.09	260000	J
5.	SUBSTITUTED CYCLOHEXANE	23.89	100000	J
6.	UNKNOWN	25.30	90000	J
7.	C4-BENZENE ISOMER	25.60	78000	J
8.	UNKNOWN ALKANE	26.33	320000	J

>B 3023

1,1 Cl₂ Ethane
1,1 Cl₂ Ethane
2 But
1,1 Cl₃ Ethane

Reduced by: DL Date: 10/16/91
Reviewed by: DL Date: 10/21/91

Data File: 785023
Page: 1

Enasco GC/MS
Target Compound Data Summary Sheet

Sample: BAL 10147-3 1000L01L ✓
Misc : V2 CH#16 TDL=1000L/10ML 4.086/10ML 1079 BCL-1072-QA2 DL
Injected : 10/16/91 16:02 Units: UG/KG
Analyst: NORA Run Factor: 12500.0 ✓
ID File: UDAID2 ✓ Surrogate vol: 50.000
Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
US19 U4-1,2-Dichloroethane	25.00	56.87	227*	70 121
US09 O8-Toluene	25.00	61.93	248*	81 117
US10 Bromofluorobenzene (BFB)	25.00	54.72	219*	74 121

Target Compounds: UDAID2

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/KG	
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
	BDL		C030 Methylene Chloride
	BDL		C053 Trans-1,2-Dichloroethene
	BDL		C055 cis-1,2-Dichloroethene
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
474	4.061	49950 JTB	C110 2-Butanone
	BDL		C125 Vinyl Acetate
539	2.627	32310 JB	C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropen
	BDL		C172 Trans-1,3-Dichloropropen
	BDL		C160 1,1,2-Trichloroethane
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform

000072

Sample: BAL 10147-3 1000L01L

Scan #	Concentration UG/L	Quant List UG/L	Sample	Compound
		BDL		C205 4-Methyl-2-Pentanone
		BDL		C250 Toluene
		BDL		C210 2-Hexanone
		BDL		C220 tetrachloroethene
		BDL		C235 Chlorobenzene
1313	8.206	100700		C240 Ethylbenzene
1344	32.360	378000	NR	CXXX Xylene (p)
1447	8.188	100200		CXXX Xylenes (o)
		BDL		C245 Styrene
		BDL		C225 1,1,2,2-Tetrachloroethan
		BDL		C335 Dichlorobenzene (m)
		BDL		C340 Dichlorobenzene (p)
		BDL		C350 Dichlorobenzene (o)
1447	8.188 37.87	100200 465801		C250 Xylene (Total)

RJ
101601

Diagnostic Quant Report

Data File: >B3028::DUH Injected At: 16:02 10/16/91
 Quant'd : 16:31 10/16/91
 ID File : UUA102::\$\$ Calibrated : 11:13 10/16/91

		- R.I. Info -							
Compound		Prod	Found	Diff	Ion	Area	RF	Conc.	
1) *C101	Bromochloromethane	2.50	2.51	.02	28.0	215433	1.0000	50.00	
2) C010	Chloromethane	3.20	0.00	--	50.0	0	.3920	0.00	
3) C020	Vinyl Chloride	3.33	0.00	--	52.0	0	.8211	0.00	
4) C015	Bromomethane	3.75	0.00	--	54.0	0	.6277	0.00	
5) C025	Chloroethane	3.94	0.00	--	54.0	0	.5346	0.00	
6) C045	1,1-Dichloroethene	4.79	0.00	--	96.0	0	1.1377	0.00	
7) C035	Acetone	4.73	5.19	.45	43.0	593	.3999	.34	
8) C040	Carbon Disulfide	5.01	0.00	--	76.0	0	4.7412	0.00	
9) C030	Methylene Chloride	5.27	5.25	.03	84.0	1549	.7264	.49	
9) D C030	Methylene Chloride	5.27	5.43	.16	84.0	4180	.7264	1.34	
10) C055	Trans-1,2-Dichloroeth	5.65	0.00	--	96.0	0	1.9143	0.00	
11) C055	cis-1,2-Dichloroeth	7.13	0.00	--	96.0	0	1.9601	0.00	
12) C050	1,1-Dichloroethane	6.23	6.20	.03	63.0	11765	3.8038	.73	
13) C060	Chloroform	7.65	7.68	.02	83.0	6200	3.4381	.42	
14) C065	1,2-Dichloroethane	8.66	0.00	--	62.0	0	2.1786	0.00	
15) C110	2-Butanone	7.16	7.21	.05	43.0	15479	.8847	4.06	
16) C015	D4-1,2-Dichloroetha	8.52	8.52	.00	65.0	7294	1.4884	1.14	
17) *C110	1,4-Difluorobenzene	9.37	9.40	.03	114.0	872599	1.0000	50.00	
18) C125	Vinyl Acetate	6.33	6.03	.30	43.0	8110	1.0500	.44	
19) C115	1,1,1-Trichloroetha	7.99	7.97	.02	97.0	27603	.6021	2.63	
20) C120	Carbon tetrachlorid	8.29	7.97	.32	117.0	3672	.5024	.42	
21) C165	Benzene	8.65	8.63	.02	78.0	1953	1.4215	.08	
22) C150	Trichloroethene	9.93	9.90	.03	130.0	6535	.4607	.81	
23) C140	1,2-Dichloropropane	10.37	0.00	--	63.0	0	.4667	0.00	
24) C130	Bromodichloromethan	10.99	0.00	--	83.0	0	.6293	0.00	
25) C175	2-Chloroethylvinyle	11.75	0.00	--	63.0	0	.1968	0.00	
26) C143	Cis-1,3-Dichloropro	12.05	0.00	--	75.0	0	.6096	0.00	
27) C172	Trans-1,3-Dichlorop	13.45	0.00	--	75.0	0	.4477	0.00	
28) C160	1,1,2-Trichloroetha	13.91	0.00	--	97.0	0	.3175	0.00	
29) C155	Dibromochloromethan	14.94	0.00	--	129.0	0	.4505	0.00	
30) C180	Bromoform	19.17	0.00	--	173.0	0	.3234	0.00	
31) *C120	D5-Chlorobenzene	16.54	16.54	.00	117.0	577754	1.0000	50.00	
32) C005	D8-Toluene	12.66	12.66	.00	98.0	20032	1.3998	1.24	
33) C205	4-Methyl-2-Pentanon	12.42	0.00	--	43.0	0	.6298	0.00	
34) C230	Toluene	12.82	12.82	.00	92.0	7468	.9983	.65	
35) C210	2-Hexanone	14.63	0.00	--	43.0	0	.3350	0.00	
36) C220	Tetrachloroethene	14.24	14.23	.01	164.0	1781	.4801	.32	
37) C235	Chlorobenzene	16.63	0.00	--	112.0	0	1.1890	0.00	
38) C240	Ethylbenzene	17.02	17.02	.00	106.0	53062	.5596	8.21	
38) D C240	Ethylbenzene	17.02	17.39	.36	106.0	255429	.5596	39.50	
38) D CXXX	Xylene (p)	17.41	17.02	.39	106.0	53062	.6831	6.72	
39) CXXX	Xylene (p)	17.41	17.39	.02	106.0	255429	.6831	32.36	
40) CXXX	Xylenes (o)	18.59	18.59	.00	106.0	71643	.7572	8.19	
41) C245	Styrene	18.65	18.61	.05	104.0	3863	1.1752	.28	
42) C225	1,1,2,2-Tetrachloro	20.83	0.00	--	83.0	0	.9905	0.00	
43) C010	Bromofluorobenzene	20.23	20.24	.01	95.0	7819	.6188	0.09	
44) C335	Dichlorobenzene (m	23.86	0.00	--	146.0	0	1.1427	0.00	
44) C335	Dichlorobenzene (p	23.86	0.00	--	146.0	0	1.1531	0.00	

000074

Sample ID	Compound	Retention Time	Area	Height	Width	Area%	Height%	Width%
4710 U250	Xylene (Total)	18.59	17.39	1.21	106.0	251080	.7533	28.84
4710 U250	Xylene (Total)	18.59	18.59	1.00	106.0	71342	.7533	9.20
4710 U250	Xylene (Total)	18.59	21.51	2.82	106.0	3614	.7533	.42
4710 U250	Xylene (Total)	18.59	21.83	3.23	106.0	2924	.7533	.34

* - Compound is an Internal Standard
U - Compound Undefined

Error opening Sample output file: -6

Done . . .

:
WAITING FOR INPUT
: ISCMP.^B3028,^B3022
FMGR 067
: ISCMP,^B3028,^B3022

Internal Standard Comparison

Sample: >B3028 Date injected: 10/16/91 Standard: >B3022 ✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	215433	121162	177.8 ✓
CI10 1,4-Difluorobenzene	872599	462273	188.8
CI20 D5-Chlorobenzene	577754	311269	185.6

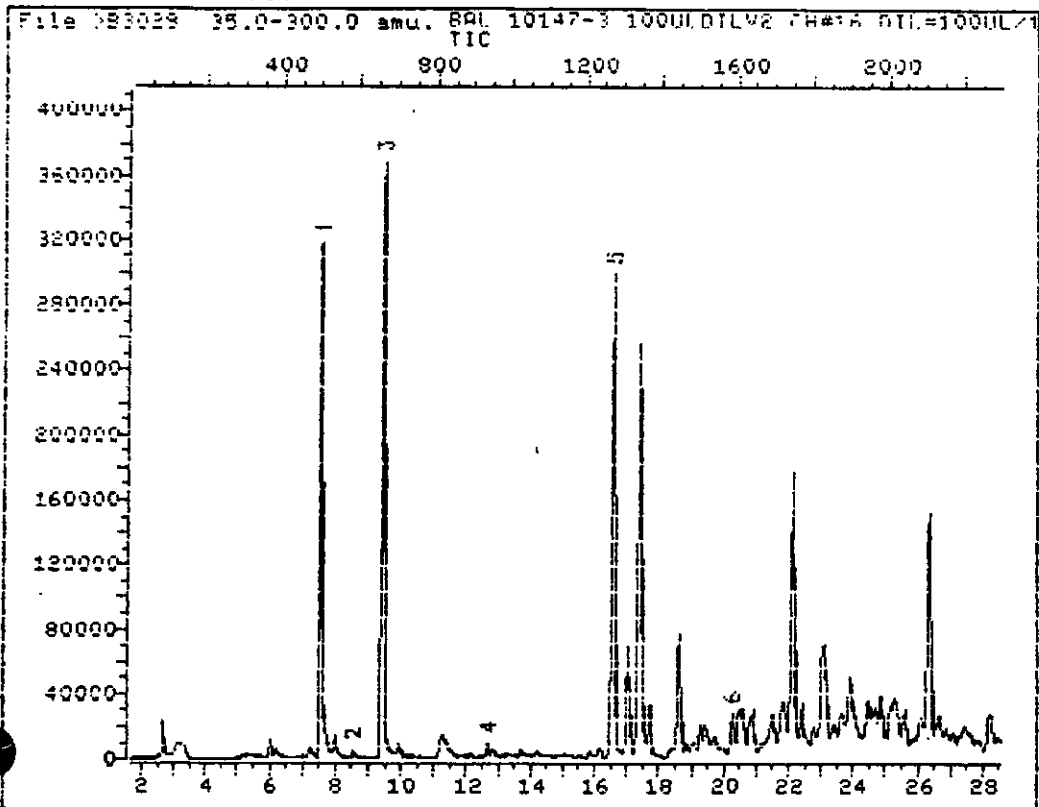
% = (Sample Area/Std Area)*100

* Area outside limits

000076

test 2
23
10/6/91

TOTAL ION CHROMATOGRAM



Data File: >B3028::D0 Quant Output File: ^B3028::Q1
Name: BAL 10147-3 100ULDIL
Misc: V2 CH#16 DIL=100UL/10ML 4.08G/10ML 10/9 UCC-10/7-QA2 DL

MB 10/23/91

Id File: UDAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 911016 11:13

Operator ID: NURA
Quant Time: 911016 16:31
Injected at: 911016 16:02

QUANT REPORT

Operator ID: NURA Quant Rev: 6 Quant Time: 911016 16:31
 Output File: QB3028:01 Injected at: 911016 16:02
 Data File: QB3028:00 Dilution Factor: 1.00000
 Name: BAL 10147-3 100ULDIL
 Misc: V2 CH#16 DIL=100UL/10ML 4.08G/10ML 1079 UCC-1077-QA2DL

ID File: QUA102:11\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERC07ENSECU
 Last Calibration: 911016 11:13

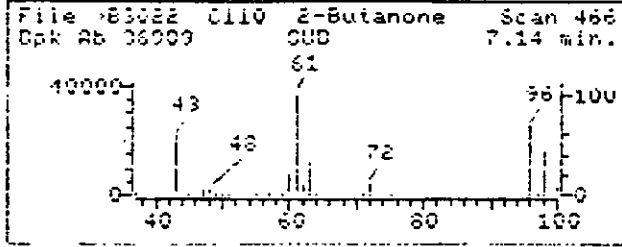
	Compound	R.T.	W ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.51	128.0	215433	50.00	UG/L	76
7)	C035 Acetone	5.19	43.0	593	.34	UG/L	100
9)	C030 Methylene Chloride	5.25	84.0	1549	.49	UG/L	86
12)	C050 1,1-Dichloroethane	6.20	63.0	11965	.73	UG/L	84
13)	C060 Chloroform	7.68	83.0	6200	.42	UG/L	95
15)	C110 2-Butanone	7.21	43.0	15479	4.06	UG/L	98
16)	C015 04-1,2-Dichloroethane	8.52	65.0	7294	1.14	UG/L	83
17)	*C118 1,4-Difluorobenzene	9.40	114.0	872599	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.03	43.0	8110	.44	UG/L	66
20)	C115 1,1,1-Trichloroethane	7.97	97.0	22603	2.63	UG/L	95
20)	C120 Carbon Tetrachloride	7.97	117.0	3672	.42	UG/L	94
21)	C165 Benzene	8.63	78.0	1953	.08	UG/L	100
22)	C150 Trichloroethene	9.90	130.0	6535	.81	UG/L	89
31)	*C120 05-Chlorobenzene	16.54	117.0	577754	50.00	UG/L	100
32)	C005 08-Toluene	12.66	98.0	20032	1.24	UG/L	89
34)	C230 Toluene	12.82	92.0	7468	.65	UG/L	99
36)	C220 Tetrachloroethene	14.23	164.0	1781	.32	UG/L	73
38)	C240 Ethylbenzene	17.02	106.0	53062	8.21	UG/L	97
39)	CXXX Xylene (p)	17.39	106.0	255429	32.36	UG/L	98
40)	CXXX Xylenes (o)	18.59	106.0	71643	8.19	UG/L	96
41)	C245 Styrene	18.61	104.0	3863	.28	UG/L	100
43)	C010 Bromofluorobenzene (BFB)	20.24	95.0	7819	1.09	UG/L	70
47)	C250 Xylene (Total)	18.59	106.0	71742	8.24	UG/L	95

* Compound is ISTD

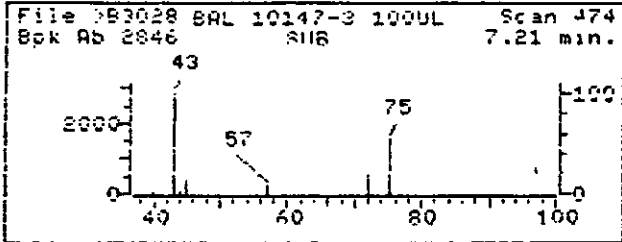
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TRJ
10/16/91

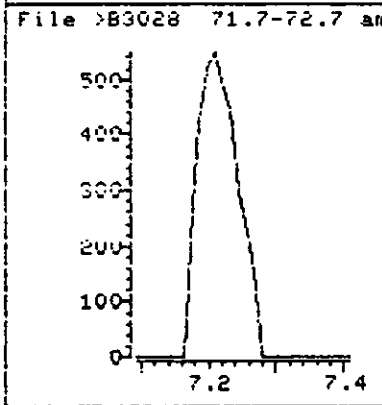
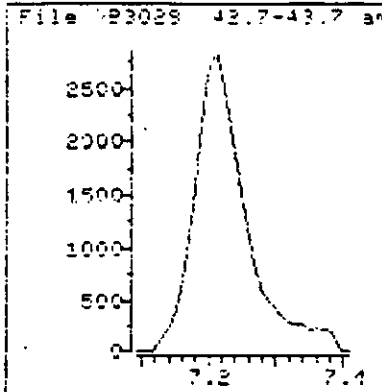
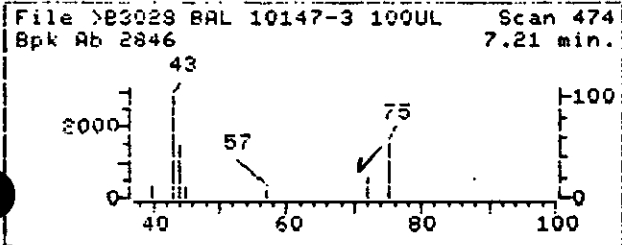
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

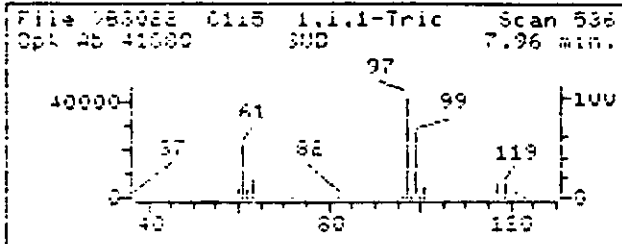


Data File: >B3028::D0
 Name: BAL 10147-3 100ULDIL
 Misc: V2 CH#16 DIL=100UL/10ML 4.08G/10ML 10/9 UCC-10/7-QA2DL MS10/23/91
 Quant Time: 911016 16:31
 Injected at: 911016 16:02

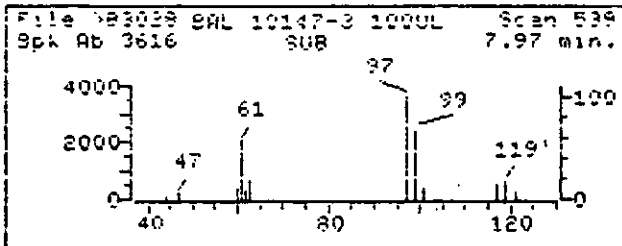
Quant Output File: ^B3028::Q1
 Quant ID File: UQAID2::\$\$
 Last Calibration: 911016 11:13

Compound No: 15
 Compound Name: C110 2-Butanone
 Scan Number: 474
 Retention Time: 7.21 min.
 Quant Ion: 43.0
 Area: 15479
 Concentration: 4.06 UG/L ✓
 q-value: 98

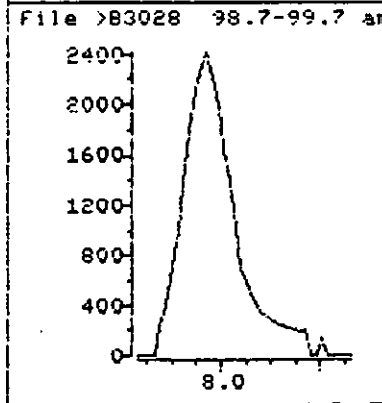
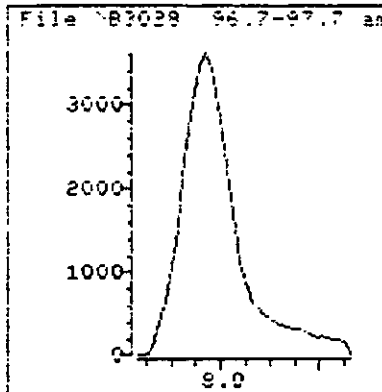
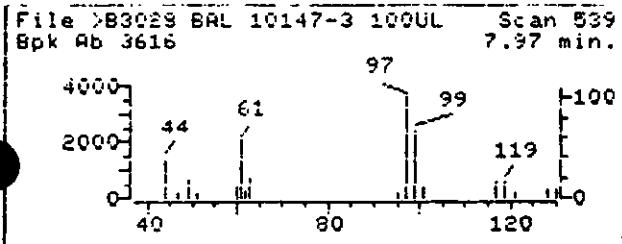
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B3028::D0
Name: BAL 10147-3 100ULD1L
Misc: U2 CH#16 DIL=100UL/10ML 4.08G/10ML 10/9 UCC-10/7-QA2 DL
Quant Time: 911016 16:31
Injected at: 911016 16:02

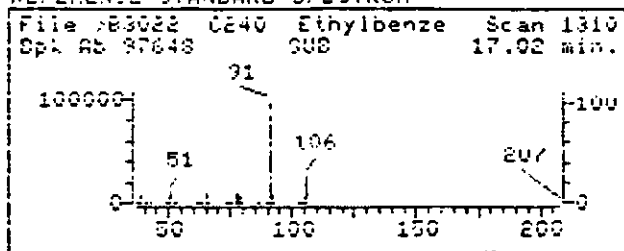
Quant Output File: ^B3028::QT

Quant ID File: UQAID2::\$\$ MB 10/23/91

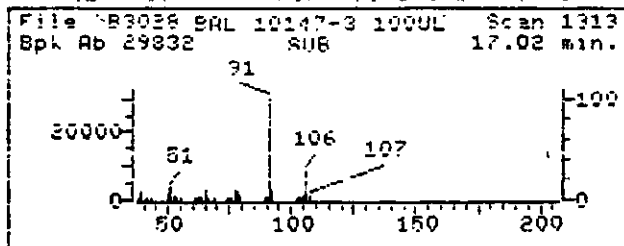
Last Calibration: 911016 11:13

Compound No: 19
Compound Name: C115 1,1,1-Trichloroethane
Scan Number: 539
Retention Time: 7.97 min.
Quant Ion: 97.0
Area: 27603
Concentration: 2.63 UG/L ✓
q-value: 95

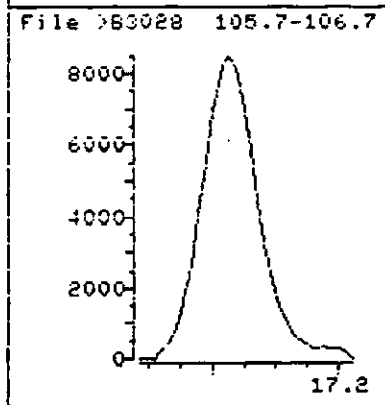
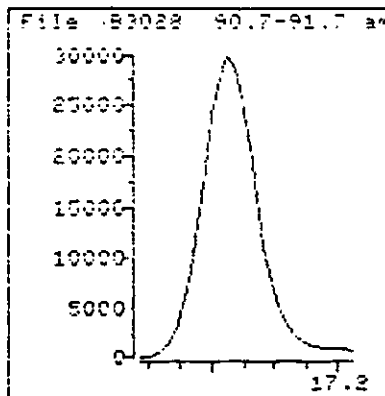
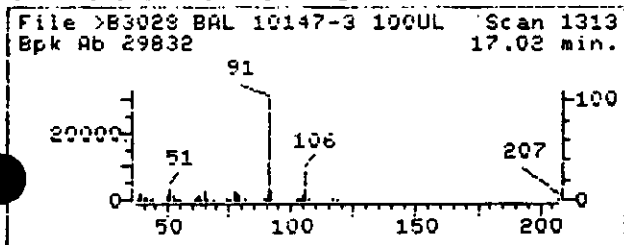
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B3028::DU

Quant Output File: ^B3028::QT

Name: BAL 10147-3 100ULDIL

Misc: U2 CH#16 DIL=100UL/10ML 4.08G/10ML 10/9 UCC-10/7-QA2 DL MB10/23/91

Quant Time: 911016 16:31

Quant ID File: UOAI02::\$\$

Injected at: 911016 16:02

Last Calibration: 911016 11:13

Compound No: 38

Compound Name: C240 Ethylbenzene

Scan Number: 1313

Retention Time: 17.02 min.

Quant Ion: 106.0

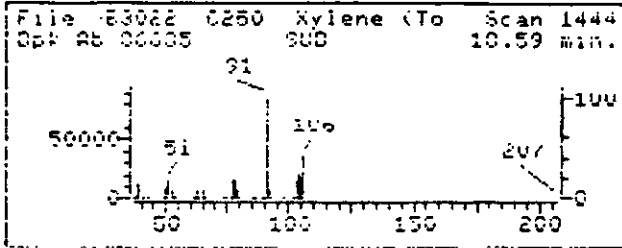
Area: 53062

Concentration: 8.21 UG/L ✓

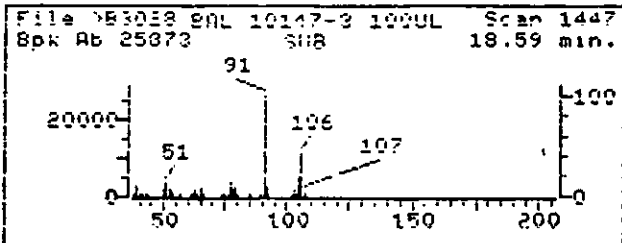
q-value: 97

000081

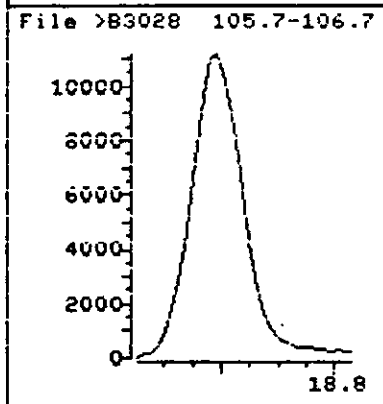
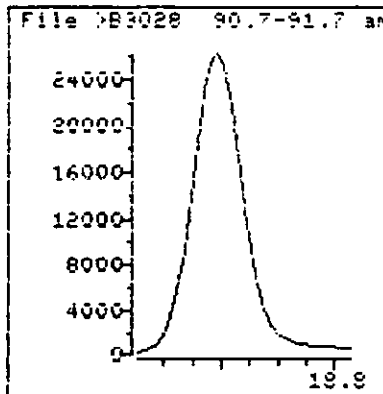
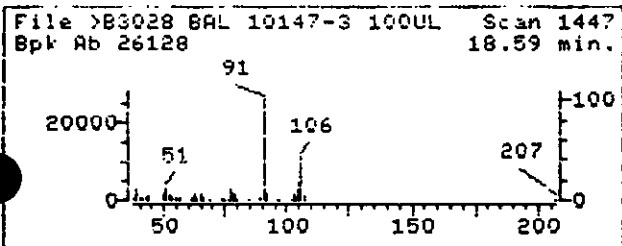
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B3028::D0

Quant Output File: ^B3028::QT

Name: BAL 10147-3 100ULDIL

Misc: V2 CH#16 DIL=100UL/10ML 4.08G/10ML 1U/9 UCC-10/7-QA2 DL MB 10/23/91

Quant Time: 911016 16:31

Quant ID File: VQAID2::\$\$

Injected at: 911016 16:02

Last Calibration: 911016 11:13

Compound No: 47

Compound Name: C250 Xylene (Total)

Scan Number: 1447

Retention Time: 18.59 min.

Quant Ion: 106.0

Area: 71342

Concentration: 8.20 UG/L

q-value: 95

37.87
 UG/L
 DJ
 10/23/91

Data Reduced by : TRJ Date: 10/16/91
Data Reviewed by : EL Date: 10/22/91

Data File: >B3028

Enseco TIC Report (page 1)

Sample: BAL 10147-3 100ULDIL Run Factor: 12300.
Conditions: V2 CH#16 .DIL=100UL/10ML 4.08G/ Analyst: NORA

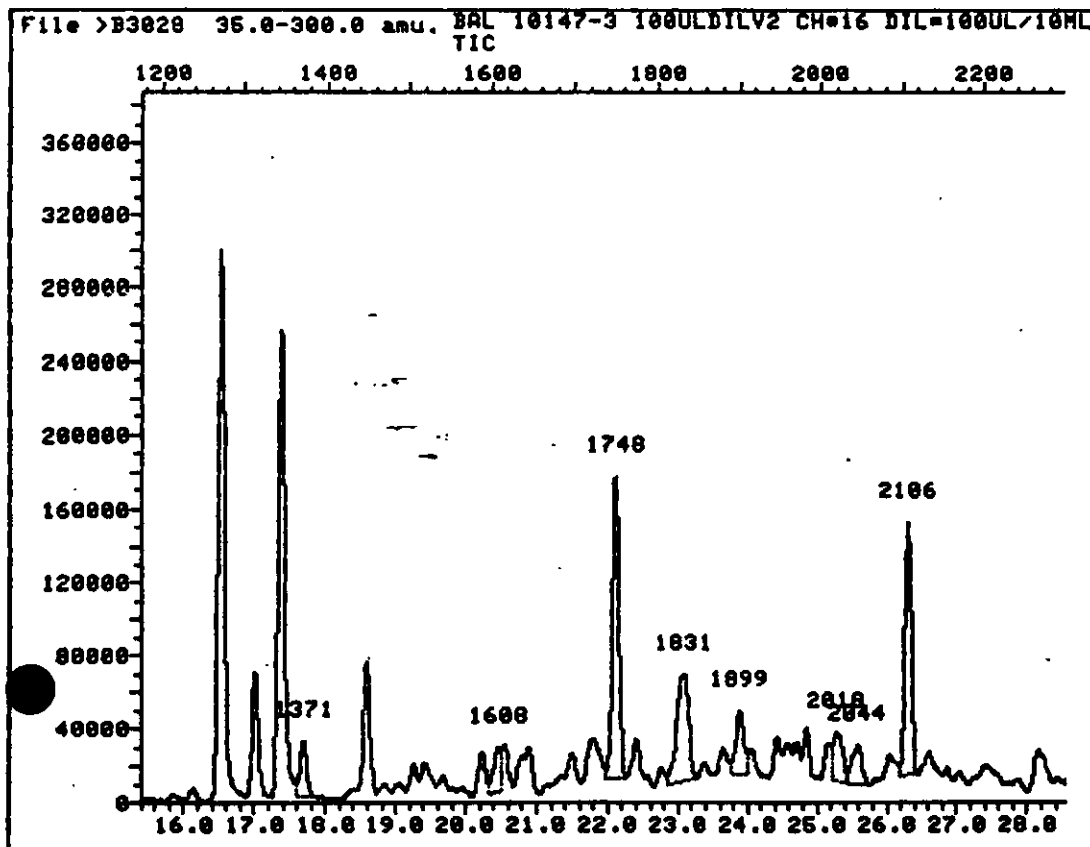
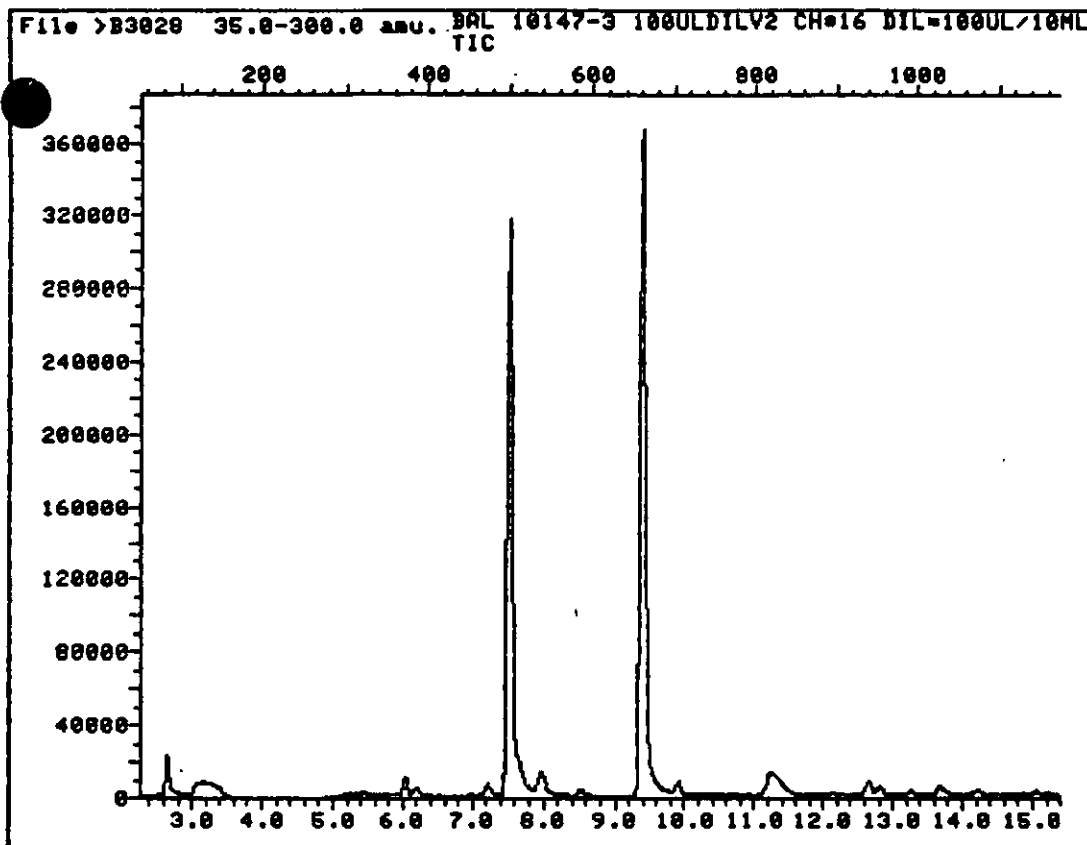
#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
1	1371.			66000.	111-84-2	Nonane Unknown alkane
2	1608.			62000.	15869-89-3	Octane, 2,5-dimethyl Unk alkane
3	1748.			350000.	1120-21-4	Undecane Unk alkane
4	1831.			240000.	17382-28-2	Nonane, 2,6-dimethyl- Unk alkane
5	1899.			94000.	1678-98-4	Cyclohexane, (2-methylpropyl) substituted cyclohexane Unk alkane
6	2018.			81000.	493-82-7	Naphthalene, decahydro, trans- C10H18
7	2044.			69000.	934-74-7	Benzene, 1-ethyl-3,5-dimethyl- C10H14
8	2106.			290000.	1120-21-4	Undecane Unk alkane

000083

Enseco TIC Report (page 2)

Concentration = Area(TIC) * Conc.(IS) / Area(IS)

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. As Analyzed (UG/L)
1	63	19	3	17.70	1.070	195583.	29996.	5.361
2	78	5	3	20.48	1.238	185042.	25109.	5.072
3	83	5	3	22.12	1.337	1030882.	163824.	28.255
4	86	9	3	23.09	1.396	700242.	59852.	19.193
5	47	29	3	23.89	1.444	279127.	34800.	7.651
6	92	25	3	25.29	1.528	241444.	26433.	6.618
7	76	23	3	25.59	1.547	204683.	20668.	5.610
8	94	14	3	26.32	1.591	865100.	138585.	23.711



000085

TIC Internal Standard Report

Data File: >B3028

Maximum separation of RIC and Quan ion peaks: 3.
Minimum RIC peak area as % of est. RIC area: 50.
Maximum RIC peak area as % of est. RIC area: 200.

#	Name	Concentration	Flag
Q scan	Q area	RQratio RIC scan RIC area	% Est. RIC
1	CI01 Bromochloromet	50.000 UG/L	Ok
500.	215433.	7.280 501. 1580174.	100.756
2	CI10 1,4-Difluorobe	50.000 UG/L	Ok
661.	872599.	2.404 661. 2015378.	96.073
3	CI20 D5-Chlorobenze	50.000 UG/L	Ok
1272.	577754.	3.474 1272. 1824227.	90.897

Deleting peaks from INT file: UDIR73

Minimum area: 10 % of area of closest Int. Std.

Number of peaks: 31

Number of peaks remaining: 14

Deleting target compounds from INT file: UDIR73

Minimum separation of TIC and target: 5.

Maximum fraction of RIC peak from targets: 40. %

Number of peaks: 14

Number of peaks remaining: 8

Deleting all but largest peaks from INT file: UDIR73

Maximum number of peaks to keep: 15

Number of peaks: 8

Maximum number of peaks > number of peaks.

000086

TIC NUMBER:1

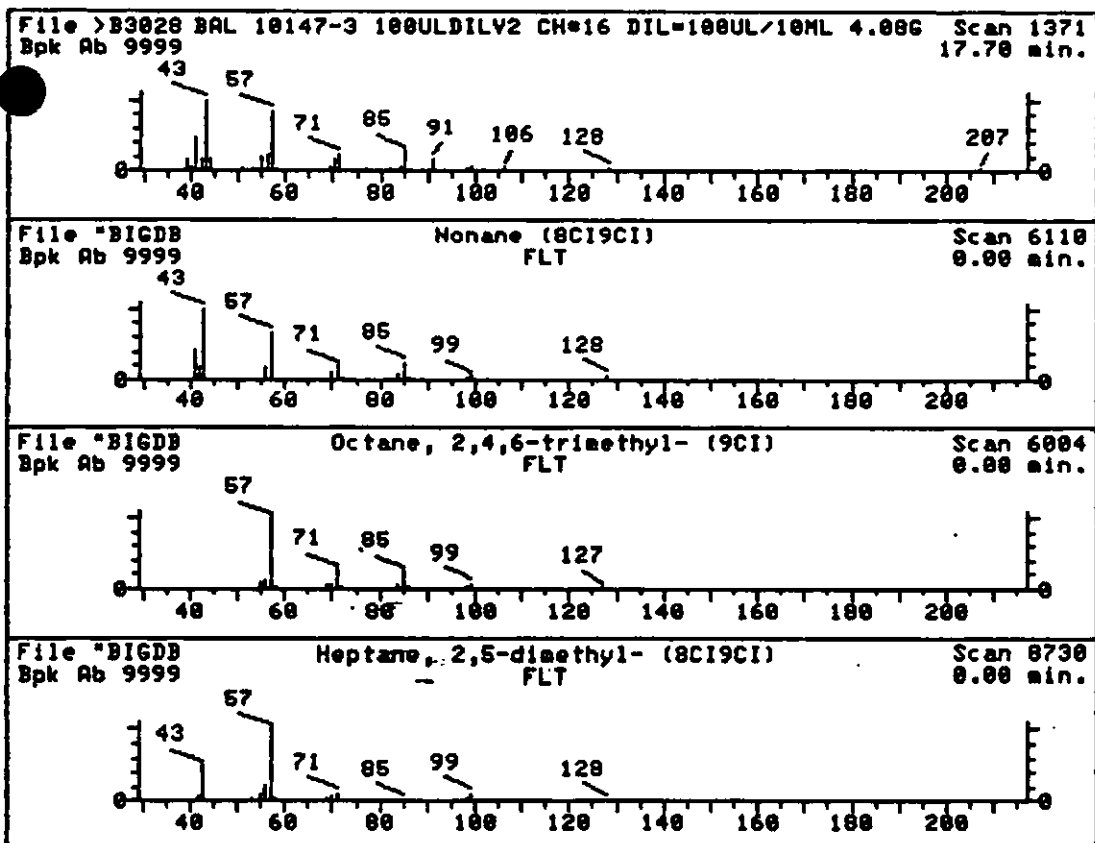
1. Nonane (8CI9CI)
2. Octane, 2,4,6-trimethyl- (9CI)
3. Heptane, 2,5-dimethyl- (8CI9CI)
4. Hexane, 3-ethyl-4-methyl- (8CI9CI)
5. Octane, 3,5-dimethyl- (8CI9CI)
6. Octane, 3-methyl- (8CI9CI)

Unk alkane
10/16/91

128 C9H20
 156 C11H24
 128 C9H20
 128 C9H20
 142 C10H22
 128 C9H20

Sample file: >B3028 Spectrum #: 1371
 Search speed: 1 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	63*	111842	6110	"BIGDB	71	25	3	1	100	19	30	38
2.	43	62016379	6004	"BIGDB	43	42	2	0	85	22	17	14
3.	41*	2216300	8730	"BIGDB	31	55	0	0	64	33	16	24
4.	36*	3074779	3606	"BIGDB	29	67	3	0	85	27	14	13
5.	35	15869939	3611	"BIGDB	44	49	2	0	61	27	14	12
6.	31*	2216333	8731	"BIGDB	25	59	1	0	75	33	12	14



Unknown alkane

120
10/14/91

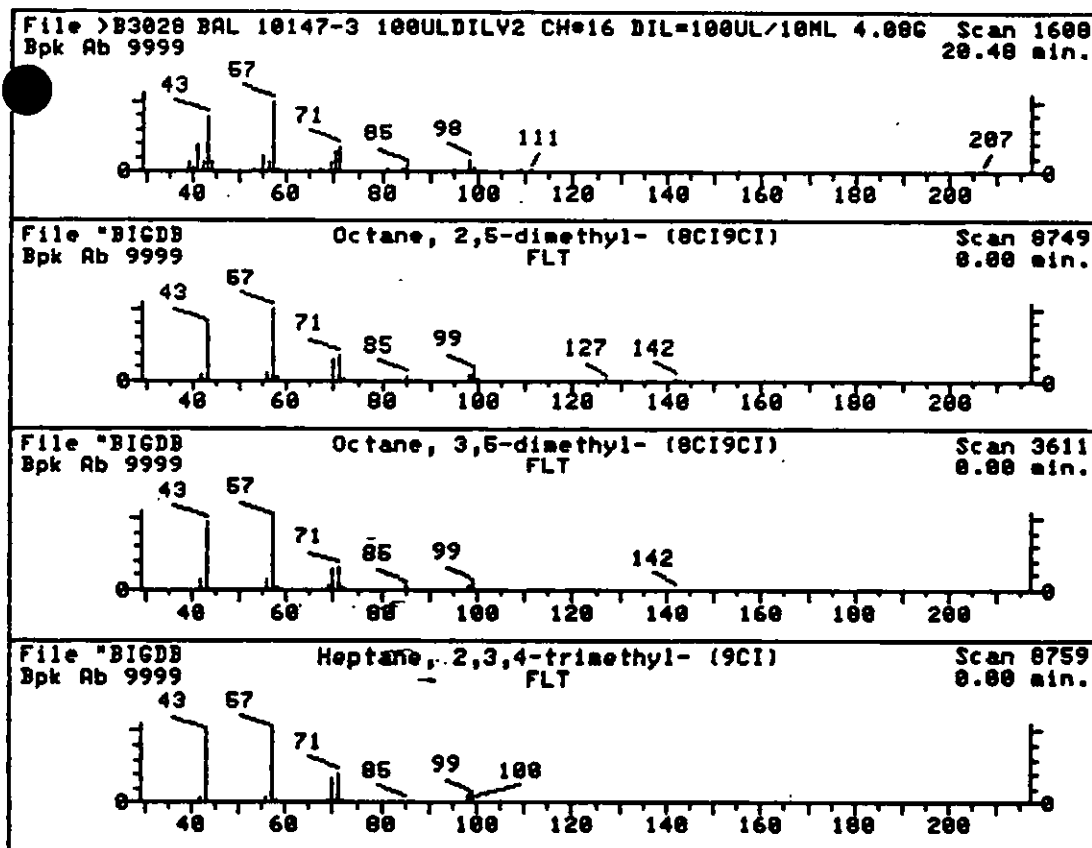
TIC NUMBER:2

1. Octane, 2,5-dimethyl- (8CI9CI)
2. Octane, 3,5-dimethyl- (8CI9CI)
3. Heptane, 2,3,4-trimethyl- (9CI)
4. Hexane, 4-ethyl-2-methyl- (8CI9CI)
5. Heptane, 3-ethyl- (8CI9CI)
6. Methanamine, N-pentylidene- (9CI)

- ~~142 C10H22~~
- ~~142 C10H22~~
- ~~142 C10H22~~
- ~~128 C9H20~~
- ~~128 C9H20~~
- ~~99 C6H13N~~

Sample file: >B3028 Spectrum #: 1608
 Search speed: 1 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	15869893	8749	"BIGDB	57	35	2	0	99	5	55	19
2.	70	15869939	3611	"BIGDB	59	34	2	0	82	8	42	19
3.	52	52896954	8759	"BIGDB	41	49	2	0	80	16	20	12
4.	52	3074757	8735	"BIGDB	40	49	2	0	100	17	20	12
5.	52	15869804	8564	"BIGDB	35	53	1	0	80	20	20	13
6.	37*	10599754	3487	"BIGDB	33	42	3	0	126	26	14	14



000088

TIC NUMBER:3

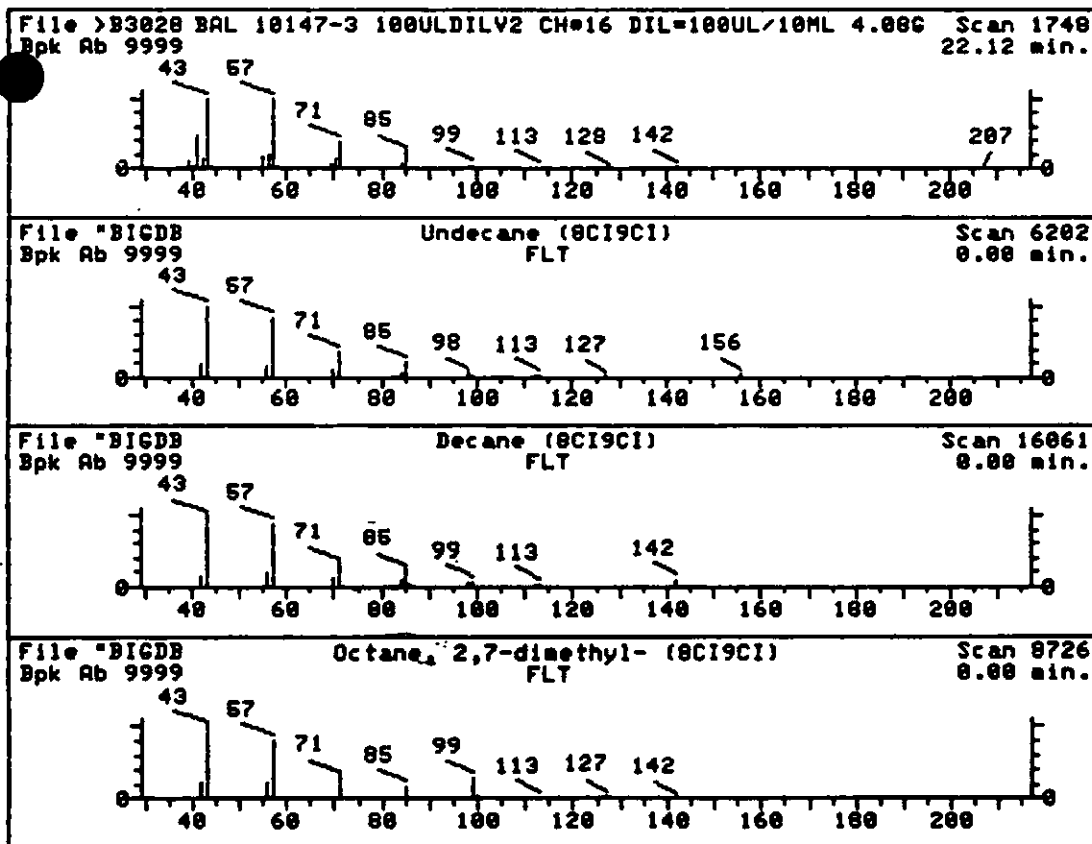
1. Undecane (8C19CI)
2. Decane (8C19CI)
3. Octane, 2,7-dimethyl- (8C19CI)
4. Undecane, 3-methyl- (8C19CI)
5. Octane, 2,4,6-trimethyl- (9CI)
6. Decane, 2,3,5-trimethyl- (9CI)

Unk alkane
DJ
10/16/91

~~156 C11H24~~
~~142 C10H22~~
~~142 C10H22~~
~~170 C12H26~~
~~156 C11H24~~
~~184 C13H28~~

Sample file: >B3028 Spectrum #: 1748
 Search speed: 1 Tilting option: S No. of ion ranges searched: 45

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	83	1120214	6202	"BIGDB	70	27	2	0	90	5	57	25
2.	76	124185	16061	"BIGDB	72	28	2	0	100	6	45	26
3.	70*	1072168	8726	"BIGDB	38	57	3	0	100	9	42	13
4.	70	1002433	6148	"BIGDB	47	41	2	0	71	9	42	16
5.	60	62016379	6004	"BIGDB	58	27	2	0	99	12	30	19
6.	60	62238113	6164	"BIGDB	63	40	2	1	67	12	30	14



TIC NUMBER:4

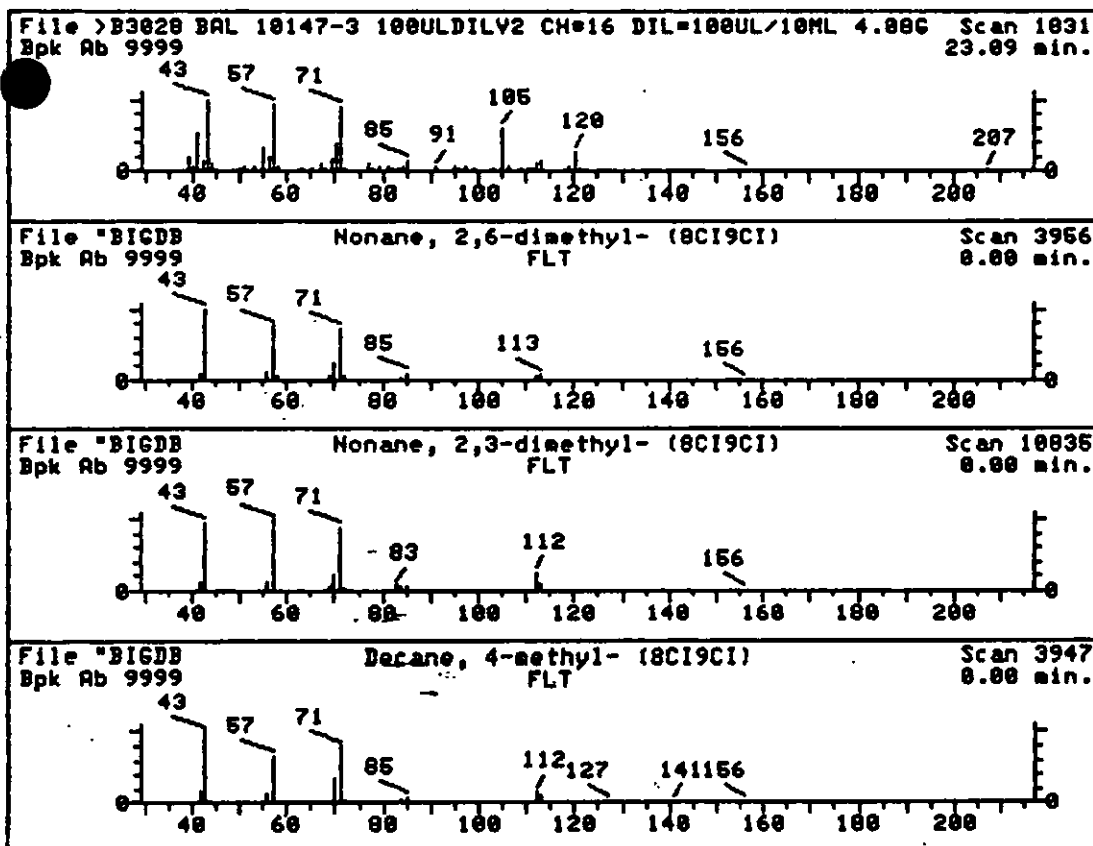
1. Nonane, 2,6-dimethyl- (8CI9CI)
2. Nonane, 2,3-dimethyl- (8CI9CI)
3. Decane, 4-methyl- (8CI9CI)
4. Heptane, 2,5,5-trimethyl- (8CI9CI)
5. Octane, 2,3,6-trimethyl- (9CI)
6. Octane, 2,3,7-trimethyl- (9CI)

Unk alkane
DLJ
10/16/91

156 C11H24
 156 C11H24
 156 C11H24
 142 C10H22
 156 C11H24
 156 C11H24

Sample file: >B3028 Spectrum #: 1831
 Search speed: 1 Tilting option: S No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	86*	17302282	3956	"BIGDB	71	20	1	0	119	9	59	73
2.	67*	2884062	10835	"BIGDB	49	52	2	0	93	15	34	22
3.	67*	2847725	3947	"BIGDB	60	41	1	0	80	30	27	56
4.	67	1189997	3946	"BIGDB	49	41	0	0	90	15	34	28
5.	67	62016335	3961	"BIGDB	50	42	0	0	93	12	34	29
6.	63	62016346	3962	"BIGDB	58	35	0	0	93	16	30	35



substituted cyclohexane
link alkane

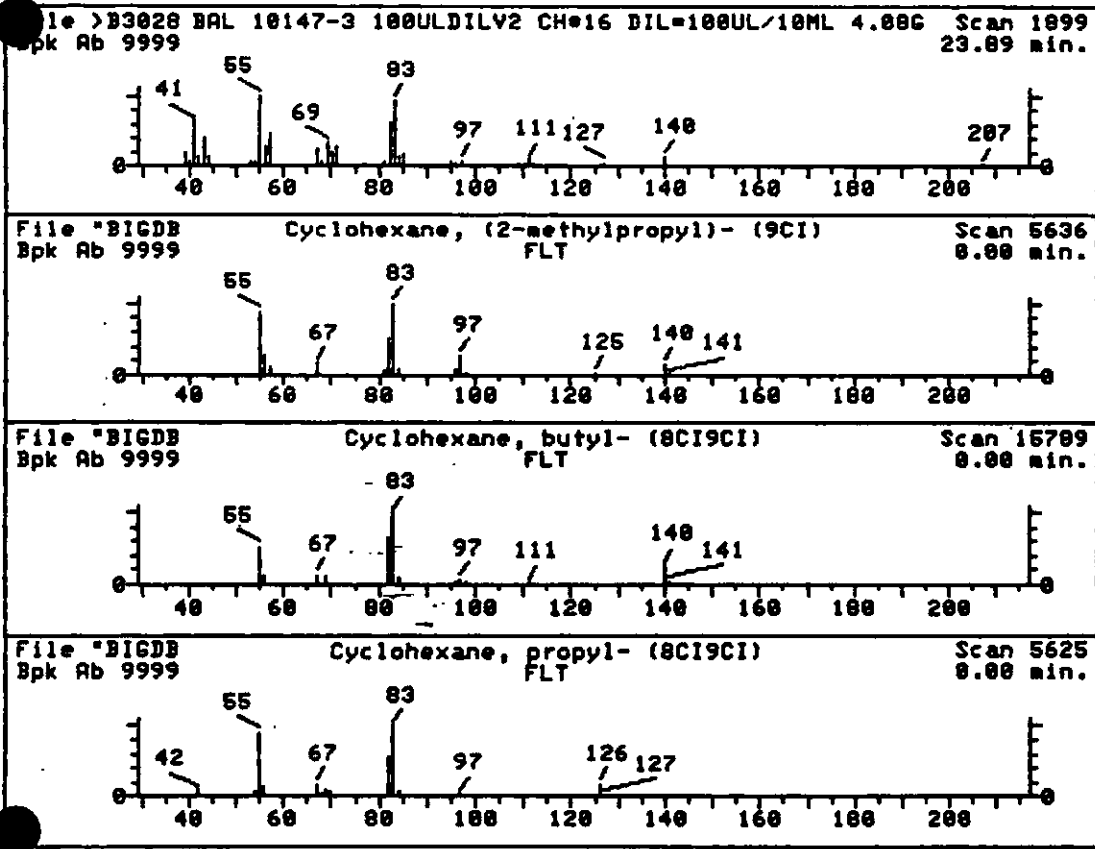
12/10/91

IC NUMBER:5

- | | |
|---|-------------|
| 1. Cyclohexane, (2-methylpropyl)- (9CI) | 140 C10H20 |
| 2. Cyclohexane, butyl- (8CI9CI) | 140 C10H20 |
| 3. Cyclohexane, propyl- (8CI9CI) | 126 C9H18 |
| 4. Cyclopentane, 1-ethyl-1-methyl- (8CI9CI) | 112 C8H16 |
| 5. 2-Butenoic acid, 2-methyl-, 2-propenyl ester, (E)- (9CI) | 140 C8H12O2 |
| 6. Cyclohexane, (1-methylpropyl)- (9CI) | 140 C10H20 |

Sample file: >B3028 Spectrum #: 1899
 Search speed: 1 Tilting option: S No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	1678984	5636	"BIGDB	51	52	2	0	94	29	19	25
2.	40*	1678939	15789	"BIGDB	51	47	2	4	100	35	16	23
3.	35	1678928	5625	"BIGDB	41	56	1	0	94	30	14	12
4.	29*	16747505	5582	"BIGDB	32	72	1	0	76	43	8	17
5.	25*	7493712	5638	"BIGDB	27	67	3	0	94	45	8	13
6.	24*	7058017	5637	"BIGDB	41	60	1	0	76	53	7	21



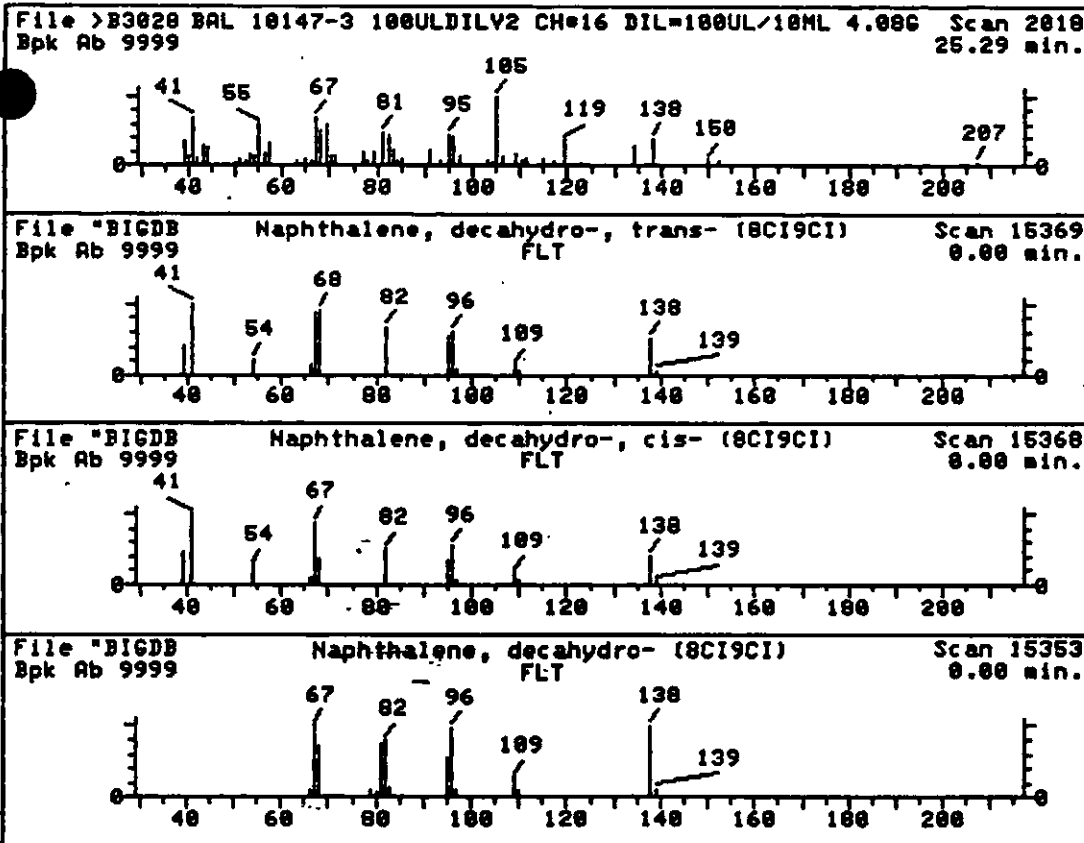
unknown
~~C10H18~~
 Isomer

TIC NUMBER:6

- | | |
|---|------------|
| 1. Naphthalene, decahydro-, trans- (8CI9CI) | 138 C10H18 |
| 2. Naphthalene, decahydro-, cis- (8CI9CI) | 138 C10H18 |
| 3. Naphthalene, decahydro- (8CI9CI) | 138 C10H18 |
| 4. Bicyclo[2.2.1]heptane, 2-methyl-, exo- (9CI) | 110 DBH14 |
| 5. 1,1'-Bicyclopentyl (9CI) | 138 C10H18 |
| 6. Spiro[4.5]decane (8CI9CI) | 138 C10H18 |

Sample file: >B3028 Spectrum #: 2018
 Search speed: 1 Tilting option: S No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	92*	493027	15369	"BIGDB	75	47	0	0	54	25	53	93
2.	69*	493016	15368	"BIGDB	66	52	1	0	69	32	26	66
3.	62*	91178	15353	"BIGDB	71	41	2	2	40	30	25	44
4.	48*	872786	3291	"BIGDB	75	38	1	0	54	51	16	73
5.	47*	1636391	3353	"BIGDB	57	61	1	0	69	44	16	46
6.	41*	176636	15365	"BIGDB	61	63	2	0	56	42	14	38



C₁₀H₁₄
ISOMER

TIC NUMBER: 7

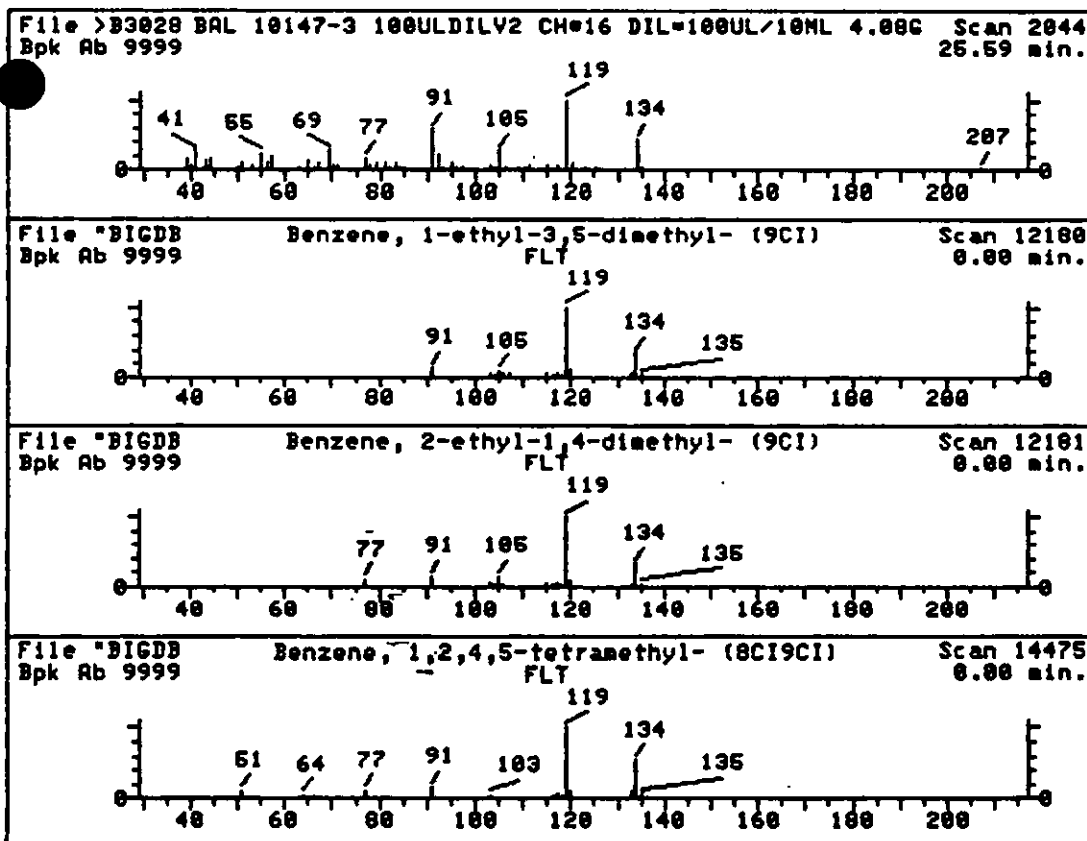
1. Benzene, 1-ethyl-3,5-dimethyl- (9CI)
2. Benzene, 2-ethyl-1,4-dimethyl- (9CI)
3. Benzene, 1,2,4,5-tetramethyl- (8CI9CI)
4. Benzene, 1-ethyl-2,3-dimethyl- (9CI)
5. Benzene, 1,2,3,4-tetramethyl- (8CI9CI)
6. Benzene, 4-ethyl-1,2-dimethyl- (9CI)

- 134 C₁₀H₁₄
- 134 C₁₀H₁₄
- 134 C₁₀H₁₄
- 134 C₁₀H₁₄
- 134 C₁₀H₁₄
- 134 C₁₀H₁₄

12
1000-41

Sample file: >B3028 Spectrum #: 2044
 Search speed: 1 Tilting option: S No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76*	934747	12180	"BIGDB	59	36	0	0	100	23	41	72
2.	75*	1758889	12181	"BIGDB	58	36	0	0	98	23	41	71
3.	75*	95932	14475	"BIGDB	61	41	0	0	79	28	37	73
4.	73*	933982	12172	"BIGDB	57	34	0	0	100	23	32	69
5.	73*	488233	14484	"BIGDB	53	41	0	0	85	25	32	65
6.	73*	934805	12173	"BIGDB	52	41	0	0	100	23	32	63



000093

TIC NUMBER:8

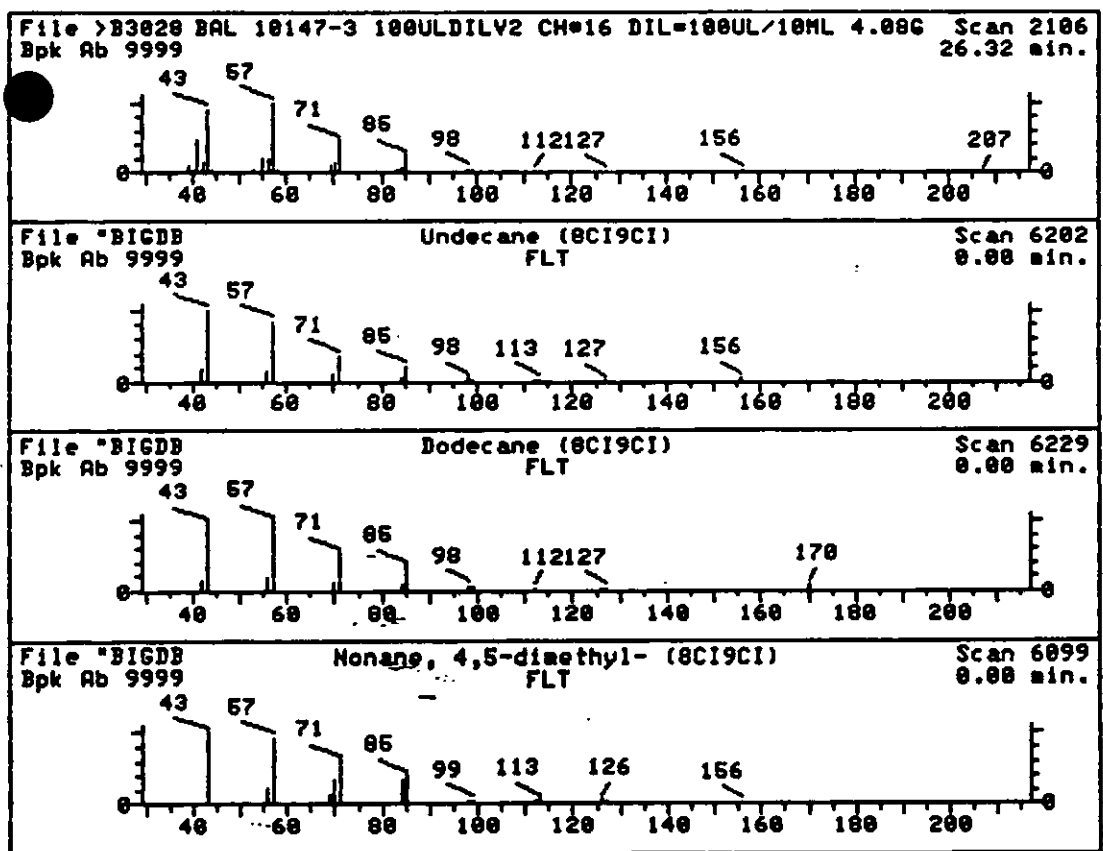
1. Undecane (8CI9CI)
2. Dodecane (8CI9CI)
3. Nonane, 4,5-dimethyl- (8CI9CI)
4. Decane, 6-ethyl-2-methyl- (9CI)
5. Tetradecane, 1-iodo- (8CI9CI)
6. Undecane, 4,6-dimethyl- (8CI)

Unk alkane
DS
 101691

- 156 C11H24
- 170 C12H26
- 156 C11H24
- 184 C13H28
- 324 C14H29I
- 184 C13H28

Sample file: >B3028 Spectrum #: 2106
 Search speed: 1 Tilting option: S No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	94*	1120214	6202	"BIGDB	80	17	0	0	85	14	64	94
2.	83	112403	6229	"BIGDB	80	21	2	1	73	4	57	23
3.	70*	17302237	6099	"BIGDB	48	57	3	0	77	8	42	13
4.	70	62108218	6163	"BIGDB	57	42	1	0	92	8	42	19
5.	70	19218941	6199	"BIGDB	68	60	2	0	71	10	42	15
6.	67	17312822	3957	"BIGDB	59	39	1	0	70	13	34	21



000094

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-19-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 10147-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2942

Level: (low/med) MED Date Received: 10/08/91

% Moisture: not dec. 8 Date Analyzed: 10/12/91

Column: (pack/cap) CAP Dilution Factor: 10

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	14000	U
74-83-9	-----Bromomethane	14000	U
75-01-4	-----Vinyl Chloride	14000	U
75-00-3	-----Chloroethane	14000	U
75-09-2	-----Methylene Chloride	6800	U
67-64-1	-----Acetone	14000	U
75-15-0	-----Carbon Disulfide	6800	U
75-35-4	-----1,1-Dichloroethene	6800	U
75-34-3	-----1,1-Dichloroethane	6800	U
540-59-0	-----1,2-Dichloroethene (total)	6800	U
67-66-3	-----Chloroform	6800	U
107-06-2	-----1,2-Dichloroethane	6800	U
78-93-3	-----2-Butanone	14000	U
71-55-6	-----1,1,1-Trichloroethane	20000	
56-23-5	-----Carbon Tetrachloride	6800	U
108-05-4	-----Vinyl Acetate	14000	U
75-27-4	-----Bromodichloromethane	6800	U
78-87-5	-----1,2-Dichloropropane	6800	U
10061-01-5	-----cis-1,3-Dichloropropene	6800	U
79-01-6	-----Trichloroethene	6900	
124-48-1	-----Dibromochloromethane	6800	U
79-00-5	-----1,1,2-Trichloroethane	6800	U
71-43-2	-----Benzene	6800	U
10061-02-6	-----trans-1,3-Dichloropropene	6800	U
110-75-8	-----2-Chloroethylvinylether	14000	U
75-25-2	-----Bromoform	6800	U
108-10-1	-----4-Methyl-2-Pentanone	14000	U
591-78-6	-----2-Hexanone	14000	U
127-18-4	-----Tetrachloroethene	6800	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6800	U
108-88-3	-----Toluene	5000	J
108-90-7	-----Chlorobenzene	6800	U
100-41-4	-----Ethylbenzene	63000	
100-42-5	-----Styrene	6800	U
1330-20-7	-----Xylene (total)	310000	

000095

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-19-4

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 10147-04
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2942
 Level: (low/med) MED Date Received: 10/08/91
 % Moisture: not dec. 8 Date Analyzed: 10/12/91
 Column (pack/cap) CAP Dilution Factor: 10

Number TICs found: 10 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C9H20 ISOMER	17.50	40000	J
2.	C10H22 ISOMER	20.26	30000	J
3.	UNKNOWN ALKANE	20.64	42000	J
4.	C3-BENZENE ISOMER	21.63	29000	J
5.	UNKNOWN ALKANE	21.86	150000	J
6.	C9H18O ISOMER AND C3-BENZENE	22.21	31000	J
7.	C3-BENZENE ISOMER	22.84	89000	J
8.	METHYLETHYLBENZENE ISOMER	24.24	35000	J
9.	METHYLPROPYLBENZENE ISOMER	25.08	41000	J
10.	ETHYLDIMETHYLBENZENE ISOMER	25.37	30000	J

CLP

N/C

12934

CLEAN

Analyzed by: N Date: 10/5/91 Data File: 12942
 Entered by: JA Date: 10/6/91 Page: 1
 Enasco Mass Spectrometry
 Target Compound Data Summary Sheet

Sample: PA 5M 10147-4 100LX
 Test: PA CH10 90L15 10# UDC-99-2-19-4 4.016/10ML 100991
 Injected: 10/12/91 20:55 Units: UG/KG
 Analyst: SEPULYNN Run Factor: 1.50.00 ✓
 ID File: M08106 Surrogate Vol: 9.000
 Quant List threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Amount Spiked	Surrogate Amount Measured	% Recovery Measured	QC Limits
CS15 04-1,2-dichloroethane	25.00	19.30	77.2	70 121
CS05 08-Toluene	25.00	24.62	98.5 ✓	81 117
CS10 Bromofluorobenzene	25.00	19.59	78.4	74 121

Target Compounds: M08106

Scan #	Concentration UG/L	Sample UG/KG	Compound
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
	BDL		C030 Methylene Chloride
	BDL		CXXX Tert-butyl alcohol
	BDL		C053 Trans-1,2-dichloroethene
	BDL		C055 Cis-1,2-dichloroethene
	BDL		CXXX Methyl tert-butyl ether
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
	BDL		C110 2-Butanone
	BDL		C125 Vinyl Acetate
501	14.803	19000	C115 1,1,1-Trichloroethane
502	2.283	SNC 2900	C120 Carbon Tetrachloride
	BDL	10.51	C165 Benzene
170	5.088	6400 J	C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropene
	BDL		C172 Trans-1,3-dichloropropene
	BDL		C160 1,1,2-Trichloroethane

000097

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
922	3.665	<u>4600</u>	C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
1282	46.490	<u>5200</u>	C240 Ethylbenzene
1313	169.446	N.R. 210000	CXXX Xylenes (p)
1415	40.193	N.R. 50000	CXXX Xylenes (o)
1414	1.215	50000	C245 Styrene
1598	3.950	SNC 4900	C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
1415	40.289 228	51000 285000 N 101591	C250 Xylenes (total)

Diagnostic Quant Report

Date File: 3F0942:06 Injected at: 20:55 10.12.91
 Sample : 01:22 10.12.91
 ID File : NVR106:INT Calibrated : 09:37 08.14.91

✓ 10/6/91

Compound	- R.T. Intra -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *C101 Bromochloromethane	7.24	7.34	.11	128.0	102639	1.0000	50.00
2) C010 Chloromethane	0.70	0.00	--	50.0	0	1.3180	0.00
3) C020 Vinyl Chloride	2.96	0.00	--	62.0	0	1.3229	0.00
4) C016 Bromomethane	3.27	0.00	--	94.0	0	1.2706	0.00
5) C025 Chloroethane	3.38	0.00	--	64.0	0	.8066	0.00
6) C045 1,1-Dichloroethene	4.38	0.00	--	96.0	0	1.5349	0.00
7) C035 Acetone	4.44	0.00	--	43.0	0	.3024	0.00
8) C040 Carbon Disulfide	4.67	0.00	--	76.0	0	4.2106	0.00
9) C030 Methylene Chloride	5.01	0.00	--	84.0	0	1.7841	0.00
10) CXXX Tert-butyl alcohol	5.17	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.39	0.00	--	96.0	0	1.8974	0.00
12) C055 Cis-1,2-dichloroethe	6.94	0.00	--	96.0	0	2.0428	0.00
13) CXXX Methyl tert-butyl et	5.40	0.00	--	73.0	0	3.2861	0.00
14) C050 1,1-Dichloroethane	6.02	0.00	--	63.0	0	3.5014	0.00
15) C060 Chloroform	7.49	0.00	--	83.0	0	3.4818	0.00
16) C065 1,2-Dichloroethane	8.53	0.00	--	62.0	0	2.3840	0.00
17) C110 2-Butanone	6.97	0.00	--	72.0	0	.1733	0.00
18) C015 D4-1,2-dichloroethan	8.40	8.38	.02	65.0	14856	1.8749	3.86
19) *C110 1,4-Difluorobenzene	9.11	9.26	.14	114.0	551453	1.0000	50.00
20) C125 Vinyl Acetate	6.08	0.00	--	43.0	0	.4441	0.00
21) C115 1,1,1-Trichloroethan	7.82	7.81	.01	97.0	92216	.5648	14.80
22) C120 Carbon Tetrachloride	8.13	7.82	.31	117.0	11875	.4717	2.28
23) C165 Benzene	8.50	0.00	--	78.0	0	1.0551	0.00
24) C150 Trichloroethene	9.80	9.78	.02	130.0	23609	.4207	5.09
25) C140 1,2-Dichloropropane	10.29	0.00	--	63.0	0	.4143	0.00
26) C130 Bromodichloromethane	10.91	0.00	--	83.0	0	.6104	0.00
27) C175 2-Chloroethylvinylet	11.65	0.00	--	63.0	0	.2031	0.00
28) C143 Dis-1,3-Dichloroprop	11.98	0.00	--	75.0	0	.5792	0.00
29) C172 Trans-1,3-dichloropr	13.41	0.00	--	75.0	0	.4136	0.00
30) C160 1,1,2-Trichloroethan	13.88	0.00	--	97.0	0	.3355	0.00
31) C155 Dibromochloromethane	14.94	0.00	--	129.0	0	.4975	0.00
32) C180 Bromoform	19.20	0.00	--	173.0	0	.3012	0.00
33) *C120 D5-Chlorobenzene	16.32	16.46	.14	117.0	417497	1.0000	50.00
34) C005 D8-Toluene	12.54	12.56	.03	98.0	48563	1.1812	4.92
35) C005 4-Methyl-2-pentanone	12.30	0.00	--	43.0	0	.3987	0.00
36) C230 Toluene	12.70	12.72	.02	92.0	26562	.8679	3.67
37) C210 2-Hexanone	14.52	0.00	--	43.0	0	.2733	0.00
38) C220 Tetrachloroethene	14.12	0.00	--	164.0	0	.4248	0.00
39) C235 Chlorobenzene	16.53	0.00	--	112.0	0	1.0055	0.00
40) C240 Ethylbenzene	16.93	16.91	.02	106.0	196435	.5060	46.49
40) C240 Ethylbenzene	16.93	17.28	.35	106.0	876007	.5060	207.32
40) CXXX Xylenes (p)	17.31	16.91	.39	106.0	196435	.6191	38.00
41) CXXX Xylenes (p)	17.31	17.28	.03	106.0	876007	.6191	169.45
42) CXXX Xylenes (o)	18.49	18.47	.02	106.0	202360	.6030	40.19
43) C245 Styrene	18.55	18.46	.09	104.0	10600	1.0452	1.21
44) C225 1,1,2,2-Tetrachloroe	20.74	20.61	.13	83.0	20670	.6267	7.56
44) C225 1,1,2,2-Tetrachloroe	20.74	21.13	.40	83.0	2636	.6267	1.56
45) C010 Bromofluorobenzene	20.15	20.10	.05	95.0	24499	.7490	3.92
46) C335 Dichlorobenzene (m)	23.74	0.00	--	146.0	0	.8780	0.00

000099

4910 C250 Xylenes (total)	18.49	16.91	1.58	106.0	196456	.6927	39.70
4910 C250 Xylenes (total)	18.49	17.28	1.21	106.0	869737	.6927	175.43
4910 C250 Xylenes (total)	18.49	18.47	.92	106.0	202360	.6927	49.89

* - Compound is an Internal Standard

0 - Compound Deleted

Internal Standard Comparison

Sample: F2942 Date injected: 10/12/91 Standard: F2930

Internal Standard	Sample Area	Std Area	%
0101 Bromochloromethane	102639	67569	151.9
0110 1,4-Difluorobenzene	551453	380644	144.9
0120 06-Chlorobenzene	417497	313108	133.3

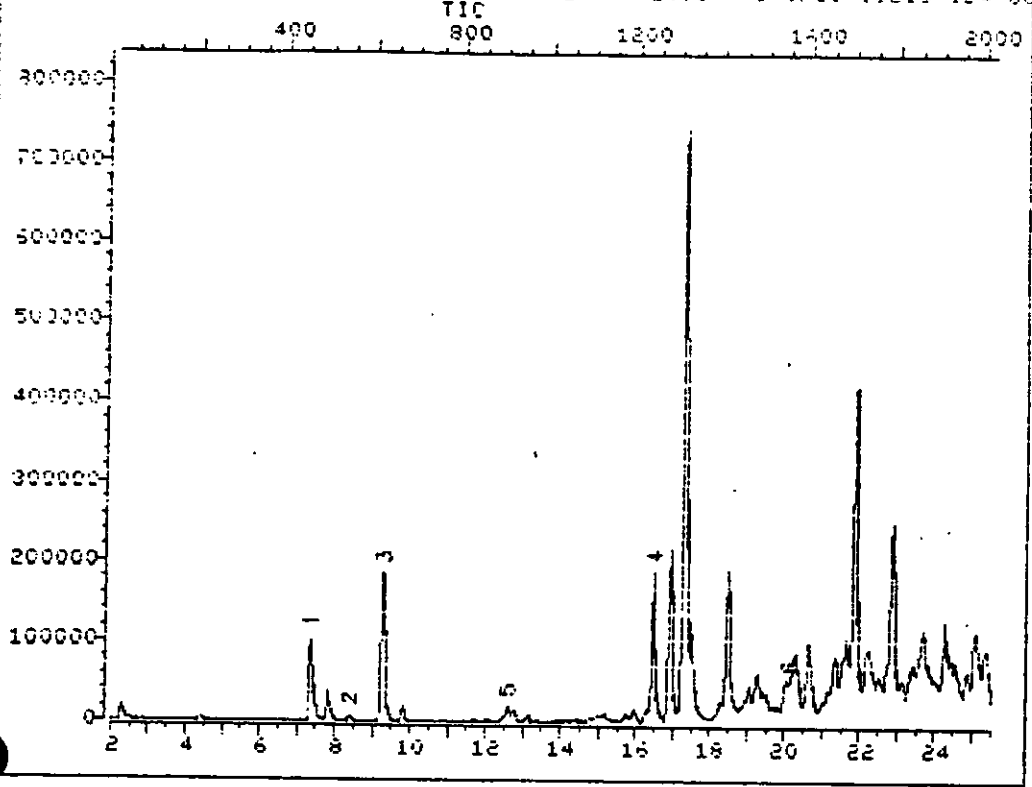
% = (Sample Area/Std Area)*100

* Area outside limits

000101

TOTAL ION CHROMATOGRAM

File: F2942 25.0-300.0 amu. BALSM 10147-4 10ULX V6 CH10 5ULIS ID# U6



Data File: >F2942::D6

Quant Output File: ^F2942::D7

Name: BALSM 10147-4 10ULX

Instrument ID: U6

Misc: U6 CH10 5ULIS ID# UCC-SB-B-19-4 4.01G/10ML 100991

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCC/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911012 12:59

Operator ID: KERYLYNN

Quant Time : 911012 21:22

Injected at: 911012 20:55

QUANT REPORT

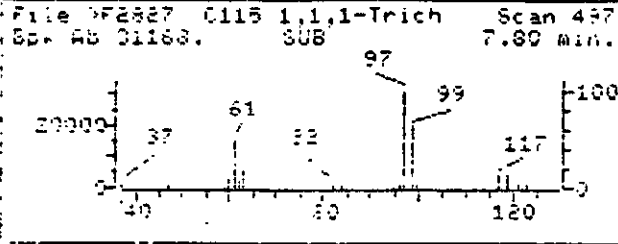
Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 911012 21:22
 Output File: >F2942::07 Injected at: 911012 20:56
 Meta File: >F2942::06 Dilution Factor: 1.00000
 Name: BALSM 10147-4 10ULX Instrument ID: 06
 Misc: 06 CH10 FULIS ID# MCC-92-B-19-4 4.01G/10ML 100991

ID File: MDR106::INT
 Title: HSL VOLATILES: 75m x .53mm: DB624 06 EPDOWENSECO
 Last Calibration: 910814 09:37 Last Qual Time: 911012 12:59

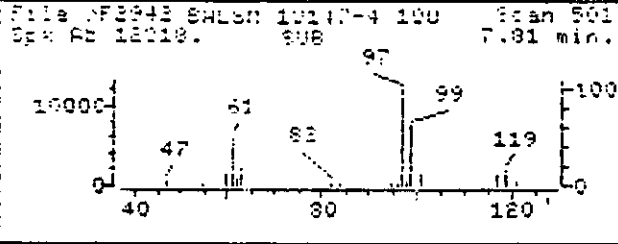
	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.34	128.0		102639	50.00	UG/L	72
18)	CS19 D4-1,2-dichloroethane	8.38	65.0		14856	3.86	UG/L	83
19)	*CI10 1,4-Difluorobenzene	9.26	114.0		551453	50.00	UG/L	100
21)	C115 1,1,1-Trichloroethane	7.81	97.0		92216	14.80	UG/L	89
22)	C120 Carbon Tetrachloride	7.82	117.0		11875	2.28	UG/L	99
24)	C150 Trichloroethane	9.78	130.0		23609	5.09	UG/L	97
33)	*CI20 D5-Chlorobenzene	16.46	117.0		417497	50.00	UG/L	100
34)	CS05 D8-Toluene	12.56	99.0		48563	4.92	UG/L	92
36)	C230 Toluene	12.72	92.0		26562	3.67	UG/L	95
37)	C240 Ethylbenzene	16.91	106.0		196435	46.49	UG/L	95
40)	CXXX Xylenes (p)	17.28	106.0		876007	169.45	UG/L	94
42)	CXXX Xylenes (o)	18.47	106.0		202360	40.19	UG/L	99
43)	C245 Styrene	18.46	104.0		10600	1.21	UG/L	100
44)	C225 1,1,2,2-Tetrachloroethane	20.61	83.0		20670	3.95	UG/L	56
45)	CS10 Bromofluorobenzene	20.10	95.0		24499	3.92	UG/L	84
49)	C250 Xylenes (total)	18.47	106.0		202360	40.89	UG/L	92

* Compound is ISTD

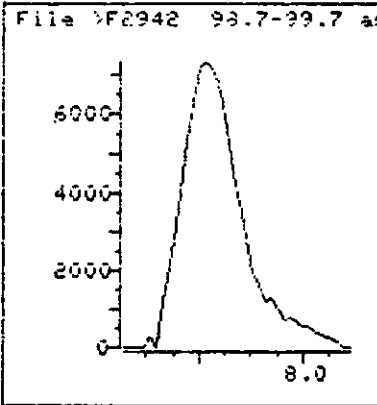
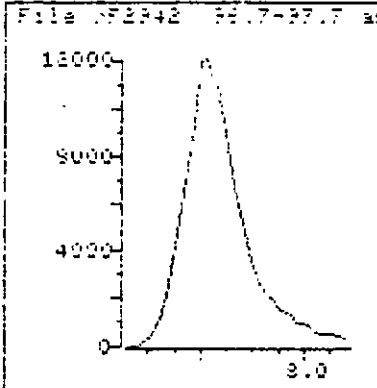
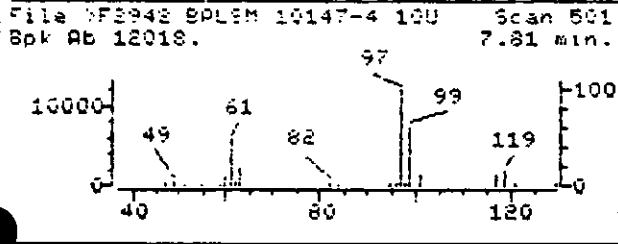
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

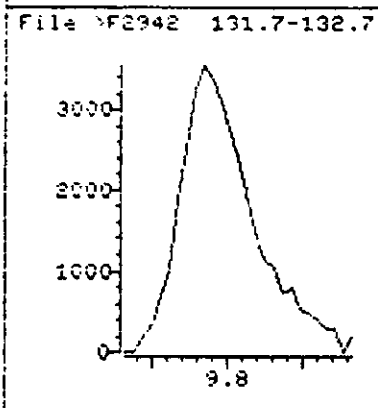
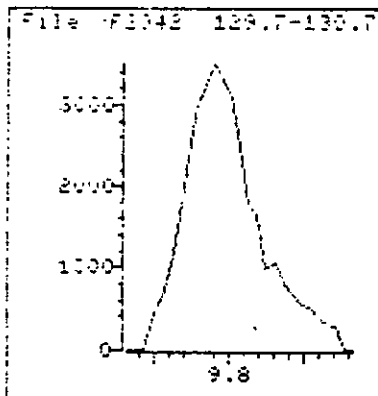
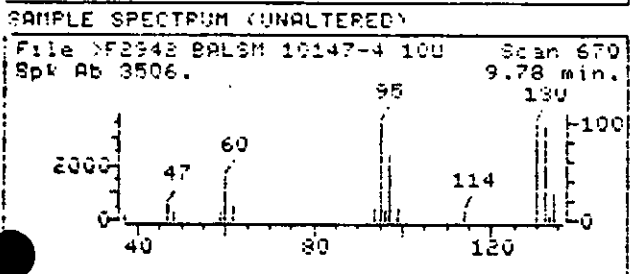
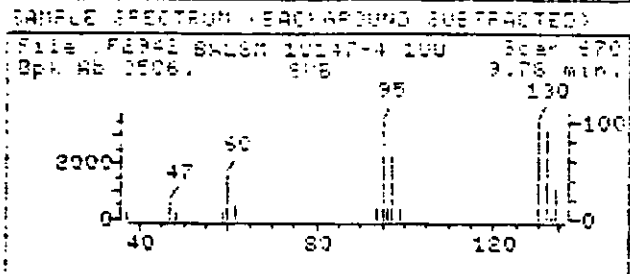
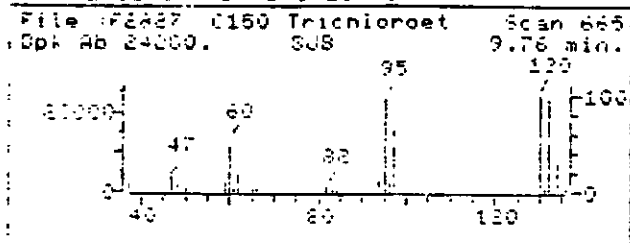


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 Name: BALSU 10147-4 10ULX
 Misc: U6 CH10 5ULIS ID# UCC-SB-B-19-4 4.01G/10ML 100991
 Quant Time: 911012 21:22
 Injected at: 911012 20:55
 Last Qual Time: 911012 12:59

Quant Output File: ^F2942::D7
 Instrument ID: U6
 Quant ID File: MOBID6::MT
 Last Calibration: 910814 09:37

Compound No : 21
 Compound Name : C115 1,1,1-Trichloroethane
 Scan Number : 501
 Retention Time: 7.81 min.
 Quant Ion : 97.0
 Area : 92216
 Concentration : 14.80 UG/L
 q-value : .89

REFERENCE STANDARD SPECTRUM

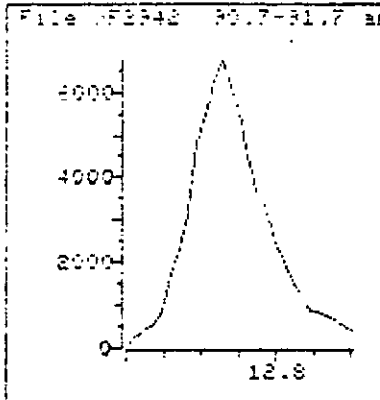
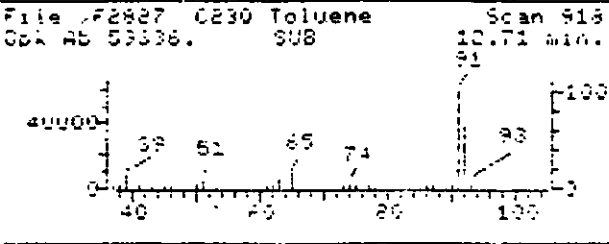


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Name: BALSM 10147-4 10ULX
Misc: U6 CH10 SULIS ID# UCC-SB-B-19-4 4.01G/10ML 100991
Quant Time: 911012 21:22
Injected at: 911012 20:55
Last Qual Time: 911012 12:59

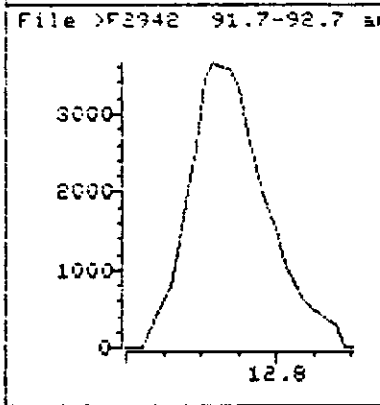
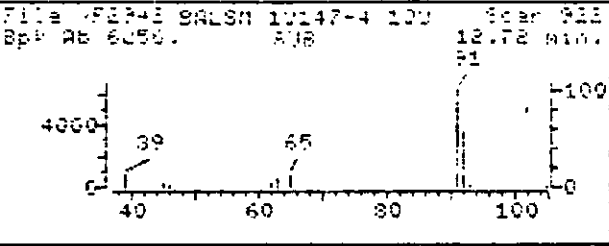
Quant Output File: ^F2942::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 24
Compound Name : C150 Trichloroethene
Scan Number : 670
Retention Time: 9.78 min.
Quant Ion : 130.0
Area : 23609
Concentration : 5.09 UG/L
q-value : -97.

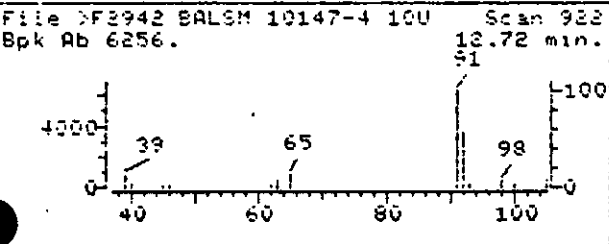
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

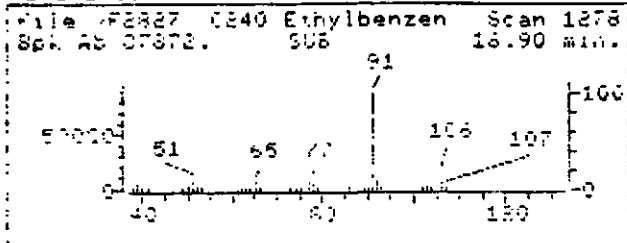


Data File: >F2942::D6
Name: BALSU 10147-4 10ULX
Misc: U6 CH10 5ULIS ID# UCC-SB-B-19-4 4.01G/10ML 100991
Quant Time: 911012 21:22
Injected at: 911012 20:55
Last Qcal Time: 911012 12:59

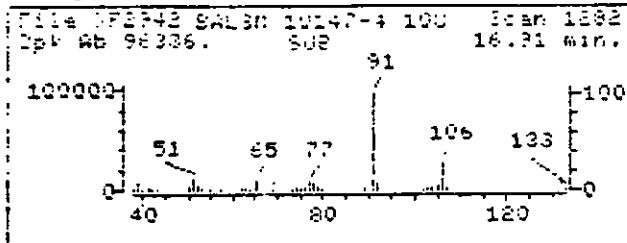
Quant Output File: ^F2942::D7
Instrument ID: U6
Quant ID File: MOBIC6::MT
Last Calibration: 910814 09:37

Compound No : 36
Compound Name : C230 Toluene
Scan Number : 922
Retention Time: 12.72 min.
Quant Ion : 92.0
Area : 26562
Concentration : 3.67 UG/L
q-value : 95

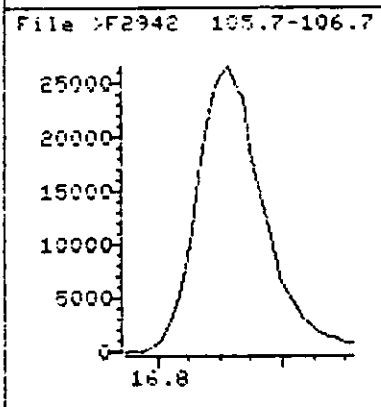
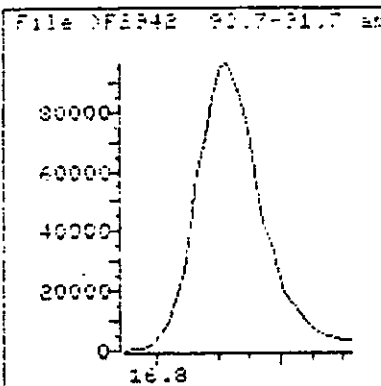
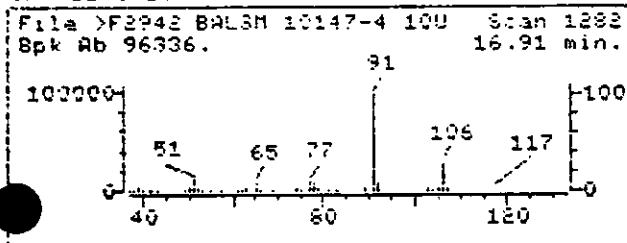
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2942::D6
Name: BALSM 10147-4 10ULX
Misc: U6 CH10 5ULIS ID# UCC-SB-8-19-4 4.01G/10ML 100991
Quant Time: 911012 21:22
Injected at: 911012 20:55
Last Qual Time: 911012 12:59

Quant Output File: ^F2942::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 40
Compound Name : C240 Ethylbenzene
Scan Number : 1282
Retention Time: 16.91 min.
Quant Ion : 106.0
Area : 196435
Concentration : 46.49 UG/L
q-value : 95

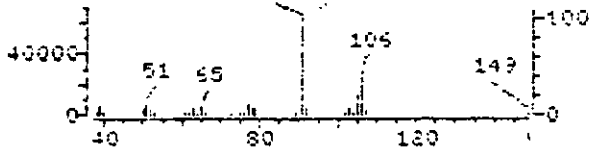
REFERENCE STANDARD SPECTRUM

File F2927 C250 Xylenes (to Scan 1412
Sp: Ab 57156. SUB 18.46 min.



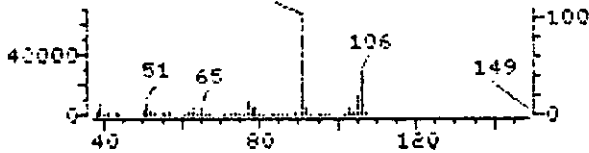
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File F2942 BALSM 10147-4 10U Scan 1415
Sp: Ab 63179. SUB 18.47 min.

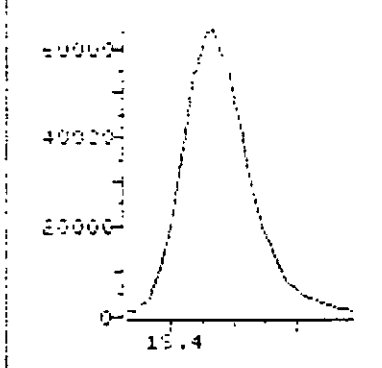


SAMPLE SPECTRUM (UNALTERED)

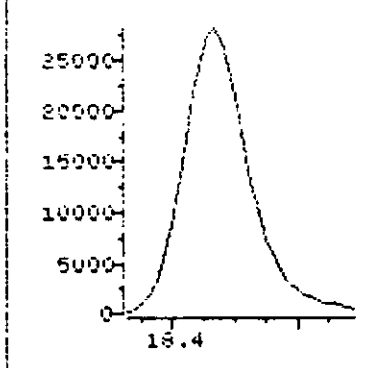
File F2942 BALSM 10147-4 10U Scan 1415
Sp: Ab 63992. SUB 18.47 min.



File F2942 90.7-91.7 am



File F2942 109.7-106.7



Data File: >F2942::D6
Name: BALSM 10147-4 10ULX
Misc: U6 CH10 5ULIS 10# UCC-SB-E-19-4 4.01G/1UML 100991
Quant Time: 911012 21:22
Injected at: 911012 20:55
Last Qcal Time: 911012 12:59

Quant Output File: ^F2942::D7
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 49
Compound Name : C250 Xylenes (total)
Scan Number : 1415
Retention Time: 18.47 min.
Quant Ion :- 106.0
Area : 202360
Concentration : 40.89 UG/L
q-value : 92

Data Reduced by : W Date: 10/4/91
 Data Reviewed by : 9 Date: 10/6/91

Data File: 1F2942

Enseco TIC Report (page 1)

Sample: BALSAM 10147-4 10ULX Run Factor: 1250.
 Conditions: 46 CH10 FULIS ID# ULC-88-8-19- Analyst: KERYLYNN

# Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
1	1332.		37000.	111-84-2	Nonane C9H20 ISOMER
2	1493.		19000.	1678-92-8	Cyclonexane, propyl- C9H18 ISOMER
3	1568.		27000.	17301-94-9	Nonane, 4-methyl- C10H22 ISOMER
4	1572.		20000.	17312-91-1	Undecane, 3,5-dimethyl- UNK ALKANE
5	1601.		39000.	15860-94-8	Decane, 3,6-dimethyl- UNK ALKANE
6	1660.		21000.	611-14-3	Benzene, 1-ethyl-2-methyl- C7H12 ISOMER
7	1686.		27000.	611-14-3	Benzene, 1-ethyl-2-methyl- C9H12 ISOMER <i>C3-benzene isomer</i>
8	1705.		140000.	124-18-9	Decane UNK ALKANE
9	1735.		29000.	815-24-7	3-Pentanone, 2,2,4,4-tetramethyl- UNK ALKANE
10	1789.		82000.	620-14-4	Benzene, 1-ethyl-3-methyl- C9H12 ISOMER <i>C3-ben</i>
11	1838.		21000.	135-98-8	Benzene, (1-methylpropyl)- C10H14 ISOMER
12	1858.		20000.	1678-93-9	Cyclohexane, butyl- C10H20 ISOMER
13	1909.		32000.	622-96-0	Benzene, 1-ethyl-1-methyl- C9H12 ISOMER
14	1990.		38000.	1074-43-7	Benzene, 1-methyl-1-propyl- C10H14 ISOMER
15	2004.		28000.	1258-88-9	Benzene, 1-ethyl-1,4-dimethyl- C10H14 ISOMER

#9 C9H18 isomer and C3-benzene isomer

Enseco TIC Report (page 2)

Concentration = Area(TIC) * Conc.(IS) / Area(IS)

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. as Analyzed (IS/L)
1	46	1	3	17.50	1.063	772919.	99816.	29.312
2	79	19	3	19.26	1.129	404079.	42213.	15.323
3	78	4	3	20.26	1.231	579686.	79777.	21.984
4	78	5	3	20.50	1.233	431297.	74677.	16.356
5	67	18	3	20.64	1.254	818643.	85805.	31.046
6	93	13	3	21.37	1.296	433773.	57637.	16.459
7	97	14	3	21.63	1.314	569034.	72220.	21.580
8	94	1	3	21.86	1.328	2909591.	386683.	110.343
9	49	46	3	22.21	1.349	603374.	53081.	22.882
10	90	35	3	22.84	1.388	1720010.	207148.	65.229
11	69	35	3	23.41	1.422	452637.	38979.	17.166
12	76	7	3	23.65	1.437	419087.	52058.	15.893
13	96	14	3	24.24	1.473	671601.	81454.	25.470
14	69	54	3	25.07	1.523	801206.	80987.	30.385
15	95	16	3	25.36	1.540	587102.	59316.	22.265

Internal Standard Report

File: AF2942

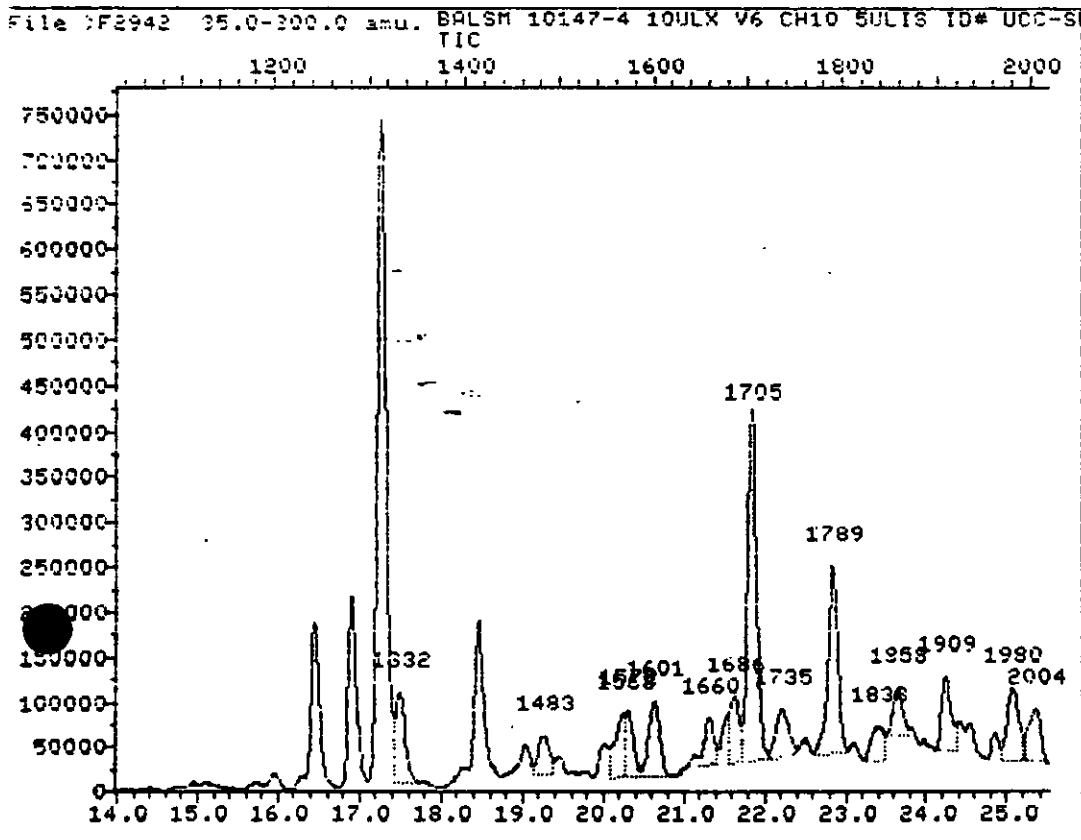
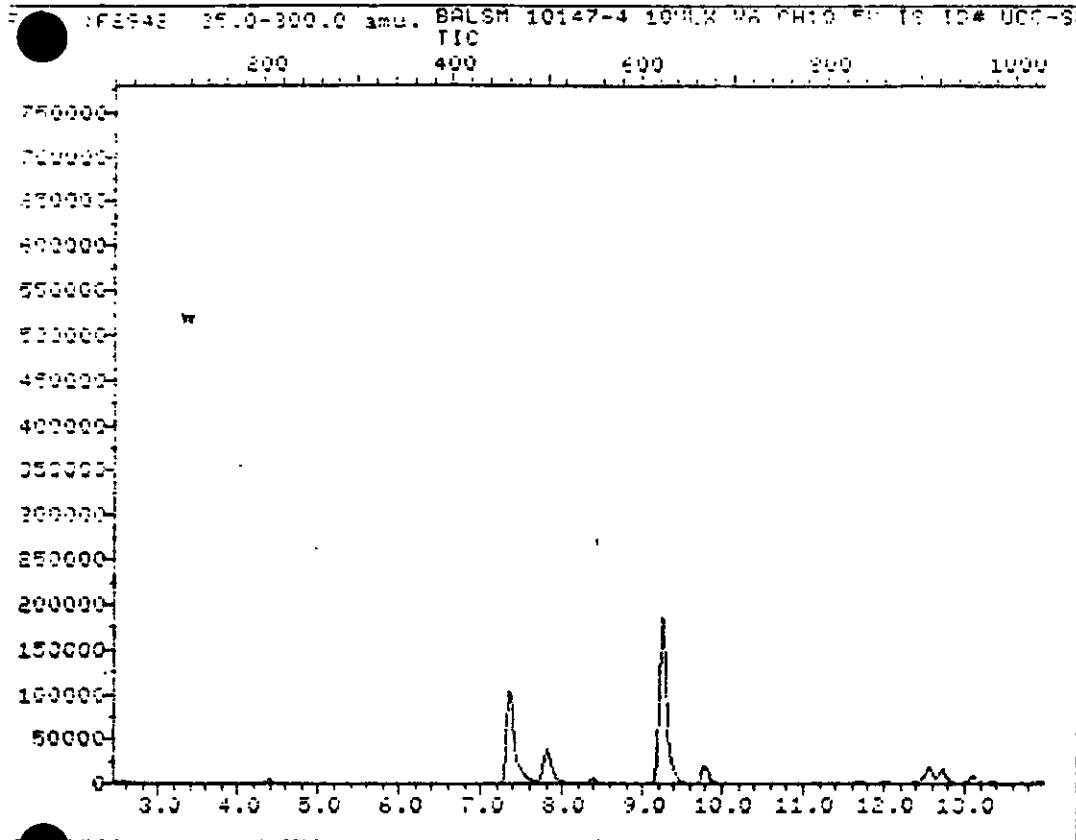
Minimum separation of RIC and Quant ion peaks: 3.
Minimum PIC peak area as % of est. RIC area: 50.
Maximum PIC peak area as % of est. RIC area: 200.

#	Name	Concentration	Flag		
Q scan	Q area	RIratio	RIC scan	RIC area	% Est. RIC
1	C191 Bromochlorometh	50.000 UG/L	Ok		
461.	102639.	6.987	461.	747335.	104.207
2	C110 1,4-Difluoroben	50.000 UG/L	Ok		
625.	551453.	2.300	624.	1267302.	99.928
3	C120 D5-Chlorobenzen	50.000 UG/L	Ok		
1243.	417497.	3.615	1243.	1318431.	87.362

Deleting peaks from INT file: UDIR87
Minimum area: 10 % of area of closest Int. Std.
Number of peaks: 24
Number of peaks remaining: 24

Deleting target compounds from INT file: UDIR87
Minimum separation of TIC and target: 5.
Maximum fraction of RIC peak from targets: 40. %
Number of peaks: 24
Number of peaks remaining: 18

Deleting all but largest peaks from INT file: UDIR87
Maximum number of peaks to keep: 15
Number of peaks: 18
Number of peaks remaining: 15



000112

FILE NUMBER: 1

*C9H20
ISOMER*

1. Nonane (801901)
2. Heptane, 2,6-dimethyl- (801901)
3. Heptane, 2,5-dimethyl- (801901)
4. Heptane, 3-ethyl-4-methyl- (801901)
5. Heptane, 2,4-dimethyl- (801901)
6. Octane, 3-methyl- (801901)

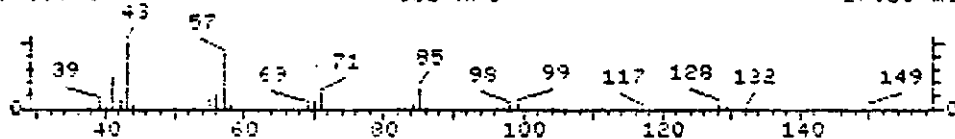
- 128 C9H20
- 128 C9H20
- 128 C9H20
- 128 C9H20
- 128 C9H20
- 128 C9H20

19101691

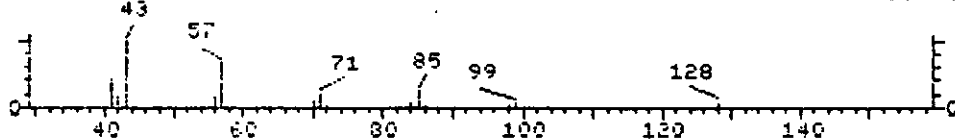
Sample file: 992942 Spectrum #: 1332
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 51

Prob.	CAS #	CON #	ROOT	K	OK	#PLG	TILT	%	CON	C_I	R_IV	
1.	95*	111842	6110	"BIGDB	93	13	1	0	91	1	72	93
2.	52*	1972055	6059	"BIGDB	23	69	3	0	100	20	20	12
3.	46*	2216700	8730	"BIGDB	31	55	0	0	67	27	19	24
4.	42*	3074779	3606	"BIGDB	29	67	3	0	82	21	17	13
5.	40*	2213232	5920	"BIGDB	56	36	1	0	92	49	12	44
6.	39*	2216333	8731	"BIGDB	29	55	1	0	78	28	14	16

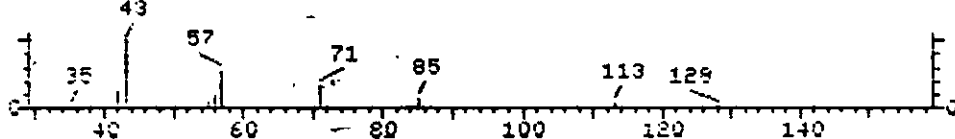
File: 992942 SALS 10147-4 100LM VE CH10 5ULIS ID# UCC-98-8-19 Scan 1332
 Spk AB 9999. SUB MPC 17.50 min.



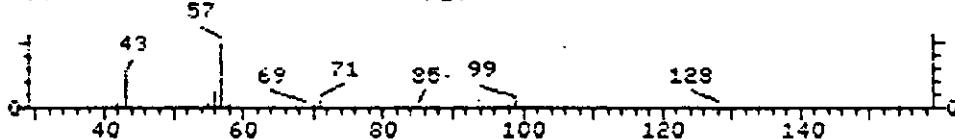
File "BIGDB Nonane (801901) Scan 6110
 Spk AB 9999. FLT 0.00 min.



File "BIGDB Heptane, 2,6-dimethyl- (801901) Scan 6059
 Spk AB 9999. FLT 0.00 min.



File "BIGDB Heptane, 2,5-dimethyl- (801901) Scan 8730
 Spk AB 9999. FLT 0.00 min.



FILE NUMBER: 3

1. Nonane, 4-methyl- (8CI9CI)
2. Heptane, 2,3,4-trimethyl- (9CI)
3. Octane, 2,5-dimethyl- (8CI9CI)
4. Octane, 3,5-dimethyl- (8CI9CI)
5. Octane, 2,5-dimethyl- (8CI9CI)
6. Heptane, 4-(1-methylethyl)- (9CI)

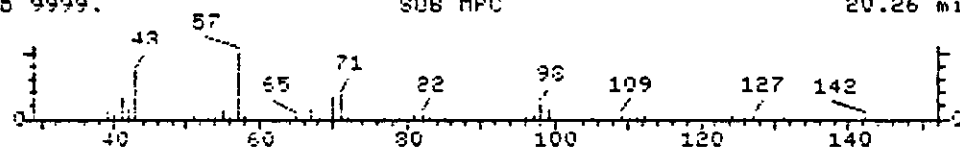
142 C10H22
 142 C10H22
 142 C10H22
 142 C10H22
 142 C10H22
 142 C10H22

loamer
(2101691)

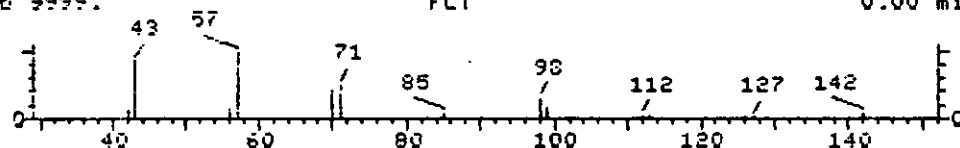
Sample file: >F2942 Spectrum #: 1568
 Search speed: 2 Tilting option: S No. of ion ranges searched: 59

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	P_I	
1.	78	17301949	3748	"BIGDB	58	42	2	0	73	4	55	16
2.	52	52896954	8759	"BIGDB	51	39	2	0	74	20	20	17
3.	52*	15869893	8749	"BIGDB	51	41	3	1	88	19	20	16
4.	43*	15869939	3611	"BIGDB	24	69	2	0	75	22	17	14
5.	42*	7146603	8559	"BIGDB	40	50	2	0	78	27	14	19
6.	39*	52896874	8582	"BIGDB	33	50	2	0	92	30	14	16

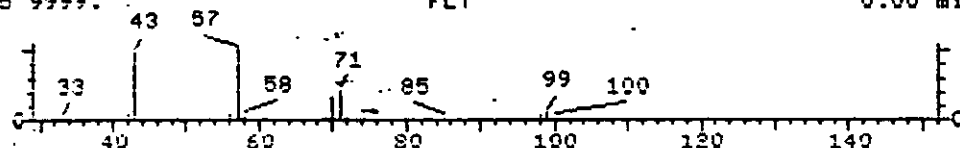
File >F2942 BALSM 10147-4 10ULN VS CH10 SULIS ID# UCC-SB-8-19 Scan 1568
 Spk Ab 9999. SUB MPC 20.26 min.



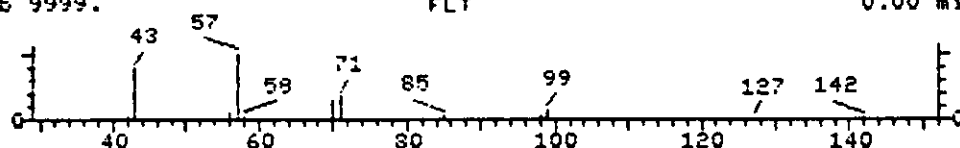
File "BIGDB Nonane, 4-methyl- (8CI9CI) Scan 3748
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Heptane, 2,3,4-trimethyl- (9CI) Scan 8759
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Octane, 2,5-dimethyl- (8CI9CI) Scan 8749
 Spk Ab 9999. FLT 0.00 min.



000114

unk
ALKANE

TITLE NUMBER: 5

1. Octane, 3,6-dimethyl- (8C19C1)
2. Decane, 2,6,7-trimethyl- (9C1)
3. Octane, 3-ethyl- (8C19C1)
4. Heptane, 3-ethyl-5-methyl- (9C1)
5. 1-Decane, 3,4-dimethyl- (9C1)
6. Nonane, 2,3-dimethyl- (9C19C1)

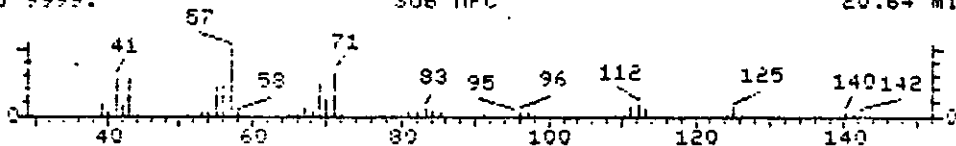
~~142 C10H22
184 C13H28
142 C10H22
142 C10H22
142 C10H22
178 C12H26
156 C11H24~~

✓ 9/16/91

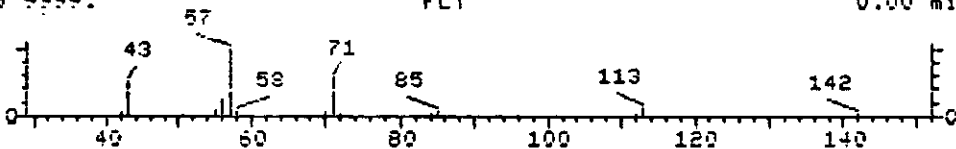
Sample file: >F2942 Spectrum #: 1601
Search speed: 2 Tilting option: S No. of ion ranges searched: 64

Prob.	CAS #	CON #	ROOT	K	DK	#PLG	TILT	%	CON	C_I	R_I	
1.	47*	18869940	11043	"BIGDB	45	44	0	0	99	28	27	53
2.	92	62188252	3963	"BIGDB	49	49	2	0	93	20	20	12
3.	48*	6981174	3951	"BIGDB	46	47	2	0	87	26	19	26
4.	46*	52895909	3958	"BIGDB	46	48	1	0	82	32	16	29
5.	44	50871039	10926	"BIGDB	55	47	1	0	70	23	17	15
6.	40	2884062	10835	"BIGDB	60	41	2	0	72	30	14	17

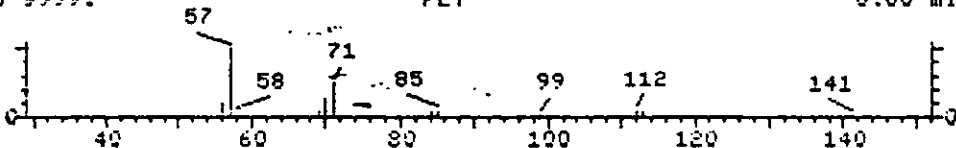
File >F2942 9ALSM 10117-4 10ULX VS CH10 5ULIS ID# UCC-98-8-19 Scan 1601
Spk Ab 9999. SUR MPC 20.64 min.



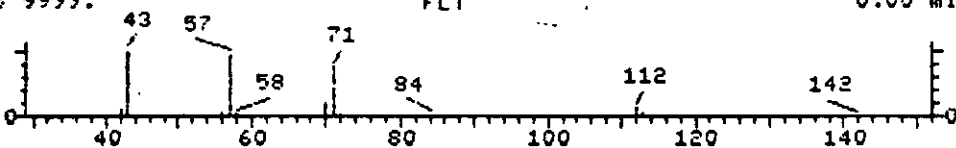
File "BIGDB Octane, 3,6-dimethyl- (8C19C1) Scan 11043
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Decane, 2,6,7-trimethyl- (9C1) Scan 3963
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Octane, 3-ethyl- (8C19C1) Scan 3951
Spk Ab 9999. FLT 0.00 min.



000115

C7H12 ISOMER

C₃-benzene isomer

10-22-91

LIBRARY NUMBER: 7

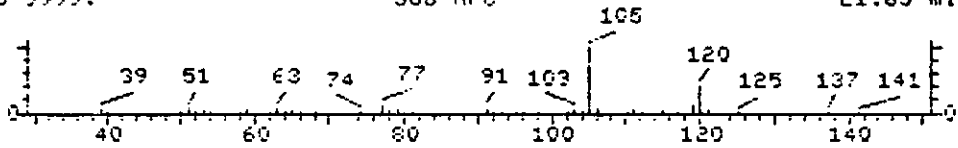
- | | |
|---|-----------|
| 1. Benzene, 1-ethyl-2-methyl- (9CI) | 120 C9H12 |
| 2. Benzene, (1-methylethyl)- (9CI) | 120 C9H12 |
| 3. Benzene, 1-ethyl-4-methyl- (9CI) | 120 C9H12 |
| 4. Benzene, 1,2,3-trimethyl- (8CI)(9CI) | 120 C9H12 |
| 5. Benzene, 1,2,4-trimethyl- (8CI)(9CI) | 120 C9H12 |
| 6. Benzene, 1,3,5-trimethyl- (9CI) | 120 C9H12 |

isomer
10/25/91

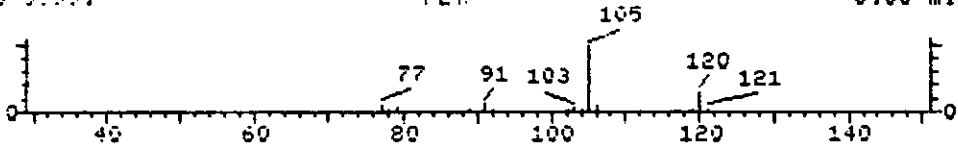
Sample file: >F2942 Spectrum #: 1636
Search speed: 2 Tilting option: 5 No. of ion ranges searched: 47

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_10	
1.	87*	611143	12266	"BIGDB	68	17	1	0	100	14	55	80
2.	83*	98828	12259	"BIGDB	77	10	0	-4	100	15	51	73
3.	82*	622968	12268	"BIGDB	64	21	0	0	90	26	43	83
4.	82*	626738	12289	"BIGDB	70	30	0	0	52	45	33	89
5.	81*	95636	12273	"BIGDB	68	27	0	0	63	34	40	83
6.	76*	108678	12275	"BIGDB	64	24	0	0	64	34	32	77

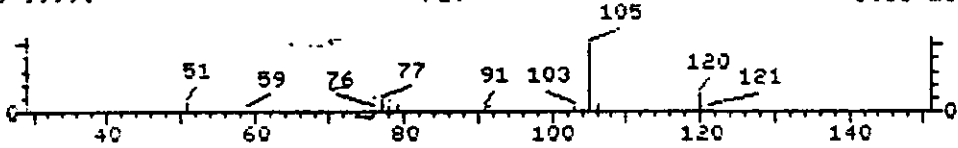
File: F2942 BALSM 10147-4 10ULX VS CH10 SULTS 10* UCC-SB-B-19 Scan 1636
Spk Ab 9999. SUB MPC 21.63 min.



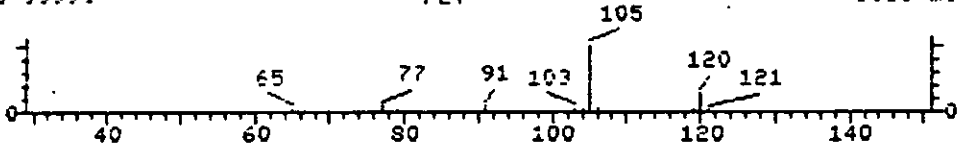
File: "BIGDB Benzene, 1-ethyl-2-methyl- (9CI) Scan 12266
Spk Ab 9999. FLT. 0.00 min.



File: "BIGDB Benzene, (1-methylethyl)- (9CI) Scan 12259
Spk Ab 9999. FLT. 0.00 min.



File: "BIGDB Benzene, 1-ethyl-4-methyl- (9CI) Scan 12268
Spk Ab 9999. FLT. 0.00 min.



Unk.
Alkane

TIC NUMBER: 8

1. Decane (9C19C1)
2. Octane, 2,4,6-trimethyl- (9C1)
3. Decane, 6-ethyl-2-methyl- (9C1)
4. Octane, 2,5,9-trimethyl- (9C1)
5. Nonane, 2-methyl- (8C19C1)
6. Nonane, 4-methyl- (8C19C1)

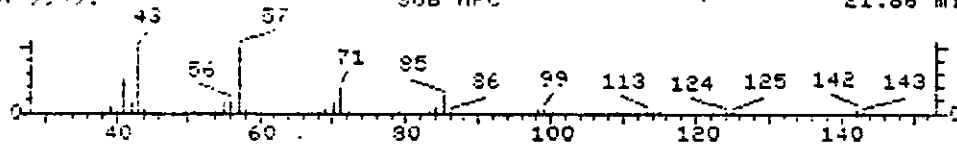
~~142 C10H22
143 C11H24
184 C13H28
184 C13H28
142 C10H22
142 C10H22~~

9/10/69

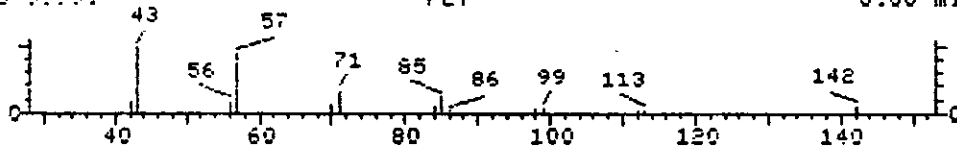
Sample file: >F2942 Spectrum #: 1705
Search speed: 2 Tilting option: S No. of ion ranges searched: 53

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	P_IV	
1.	94*	124185	16061	"BIGDB	91	9	1	1	96	1	72	92
2.	70	62016379	6004	"BIGDB	59	26	2	0	100	19	42	19
3.	70	62108218	6163	"BIGDB	52	47	2	0	99	10	42	13
4.	63	62108229	3927	"BIGDB	55	36	0	0	100	17	30	33
5.	60*	871930	8635	"BIGDB	42	54	3	0	98	11	30	13
6.	60*	17301949	3768	"BIGDB	38	62	3	0	77	15	30	13

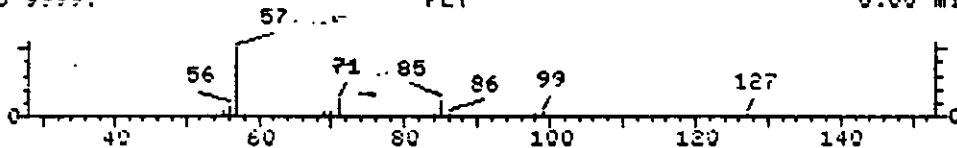
File: F2942 9ALSM 10147-4 10ULM V5 CH10 SULIS ID# UCC-88-8-19 Scan 1705
Spk Ab 9999. SUB MPC 21.86 min.



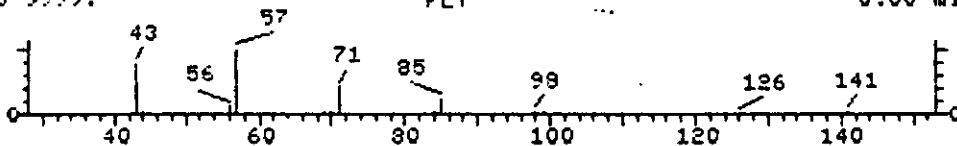
File: "BIGDB Decane (9C19C1) Scan 16061
Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Octane, 2,4,6-trimethyl- (9C1) Scan 6004
Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Decane, 6-ethyl-2-methyl- (9C1) Scan 6163
Spk Ab 9999. FLT 0.00 min.



000117

~~Wk~~ ALKANE

C₉ H₁₈O isomer
and C₃ benzene isomer
10-22-91

NUMBERS:

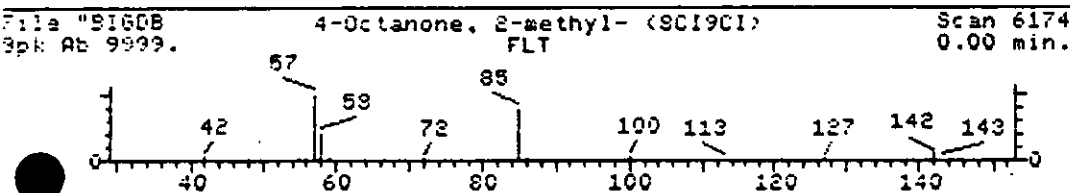
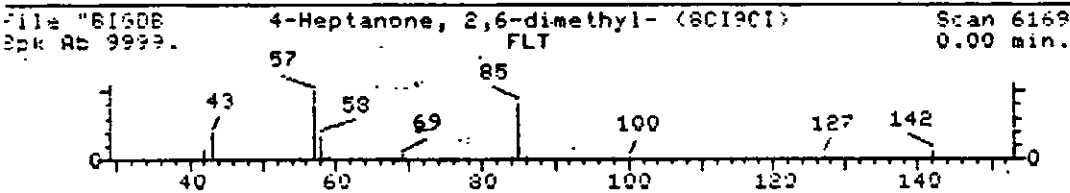
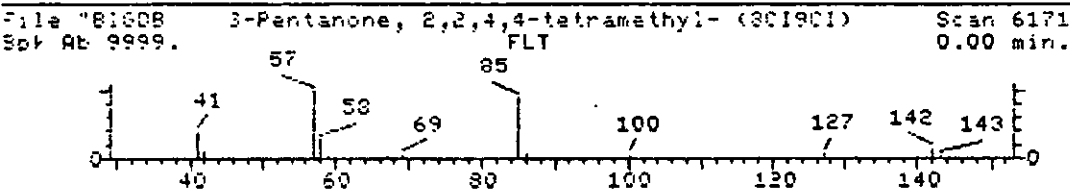
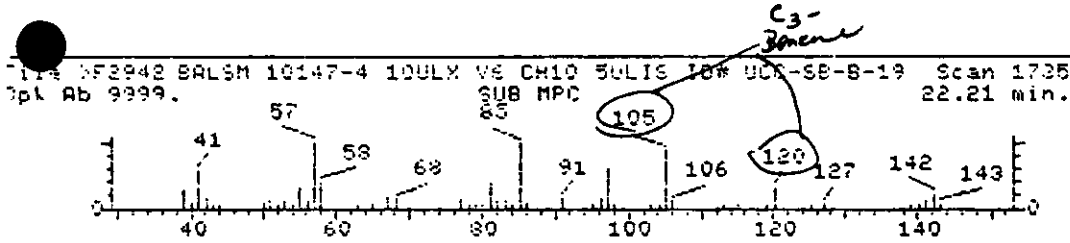
1. 3-Pentanone, 2,2,4,4-tetramethyl- (801901)
2. 4-Heptanone, 2,6-dimethyl- (801911)
3. 4-Octanone, 2-methyl- (801901)
4. Benzene, 1-ethyl-4-methyl- (901)
5. Benzene, 1-ethyl-3-methyl- (901)
6. Benzene, 1-ethyl-2-methyl- (901)

142 C₉H₁₈O
142 C₉H₁₈O
142 C₉H₁₈O
120 C₃H₆
120 C₃H₆
120 C₃H₆

10/10/91

Sample file: >F2942 Spectrum #: 1735
Search speed: 2 Tilting option: S No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I	
1.	49*	815247	6171	"BIGDB	49	44	0	0	100	46	13	59
2.	30*	108838	6169	"BIGDB	49	50	1	0	100	47	10	29
3.	30*	7492398	6174	"BIGDB	31	61	0	0	94	46	10	24
4.	30*	622968	12268	"BIGDB	52	33	2	1	96	47	10	28
5.	30*	620144	12267	"BIGDB	52	35	2	1	96	47	10	28
6.	30*	611143	12266	"BIGDB	51	34	2	1	96	47	10	27



000118

~~C₉H₁₂ ISOMER~~

C₉-aromatic isomer
22/10/91

FILE NUMBER: 10

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

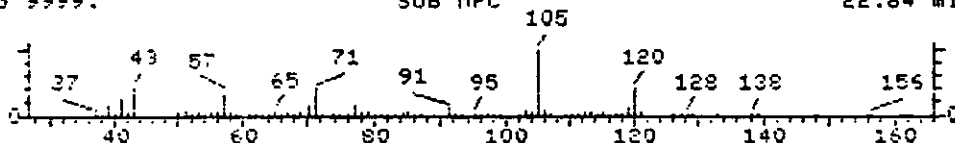
120 09412
120 09412
120 09412
120 09412
120 09412
120 09412

19/11/91

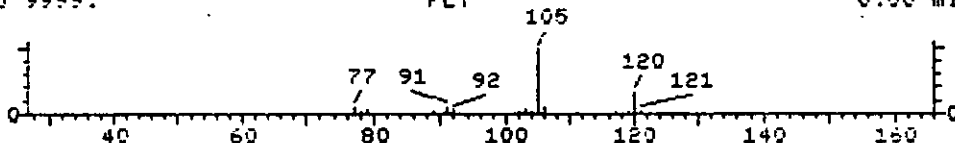
Sample file: >F2942 Spectrum #: 1789
Search speed: 2 Tilting option: S No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I	
1.	90*	620144	12267	"BIGDB	75	12	1	0	98	35	50	93
2.	99*	611143	12266	"BIGDB	75	10	1	0	97	36	47	93
3.	73*	108678	12275	"BIGDB	78	10	2	4	74	22	32	61
4.	73*	622968	12268	"BIGDB	64	21	0	0	75	46	30	83
5.	64*	95536	12273	"BIGDB	71	24	0	0	61	52	25	89
6.	45*	98828	12259	"BIGDB	56	31	0	0	71	52	11	67

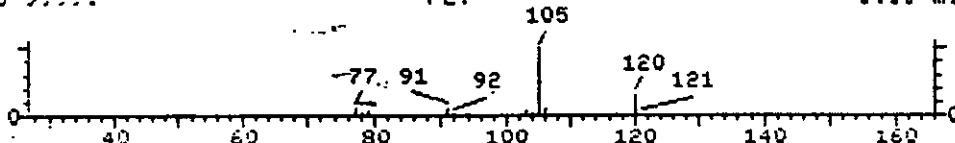
File >F2942 SALSM 10147-4 10ULX V6 CH10 SULIS ID# UCC-SB-B-19 Scan 1789
Spk Ab 9999. SUB MPC 22.84 min.



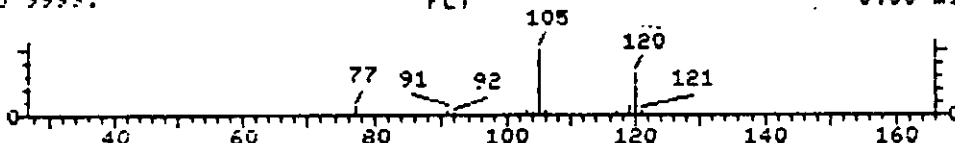
File "BIGDB Benzene, 1-ethyl-3-methyl- (9CI) Scan 12267
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-2-methyl- (9CI) Scan 12266
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1,3,5-trimethyl- (9CI) Scan 12275
Spk Ab 9999. FLT 0.00 min.



000119

~~C9H12~~
~~ISOMER~~

NUMBER: 13

- 1. Benzene, 1-ethyl-4-methyl- (9CI) *isomer* 120 C9H12
- 2. Benzene, 1-ethyl-2-methyl- (9CI) 120 C9H12
- 3. Benzene, 1-ethyl-3-methyl- (9CI) 120 C9H12
- 4. Benzene, (1-methylethyl)- (9CI) 120 C9H12
- 5. Benzene, 1,3,5-trimethyl- (9CI) 120 C9H12
- 6. Benzene, 1,2,4-trimethyl- (9CI) 120 C9H12

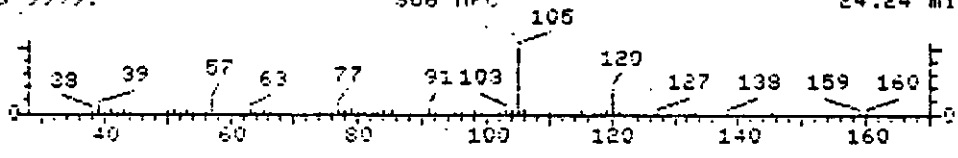
R10-09-91

~~9/10/69/1~~

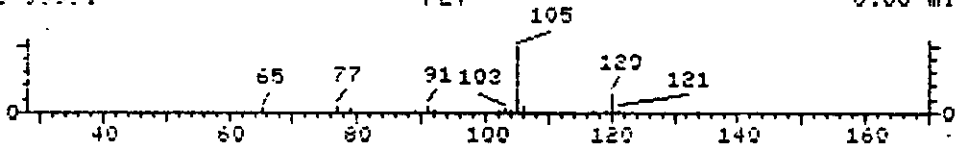
Sample file: >F2942 Spectrum #: 1909
 Search speed: 2 Tilting option: S No. of ion ranges searched: 62

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_I
1.	622968	12268	"BIGDB	79	6	0	0	96	14	64	97
2.	611143	12266	"BIGDB	75	10	1	0	87	14	64	93
3.	620144	12267	"BIGDB	75	12	1	0	87	14	64	93
4.	98928	12259	"BIGDB	77	10	1	-3	100	12	43	61
5.	108678	12275	"BIGDB	68	20	1	0	58	35	32	73
6.	95636	12273	"BIGDB	72	23	1	0	56	35	32	71

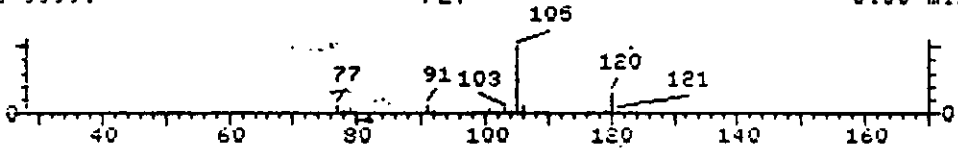
File "F2942 BALEM 10147-4 10ULX V6 CH10 5ULIS ID# UCC-SB-B-19 Scan 1909
 Spk Ab 9999. SUB MPC 24.24 min.



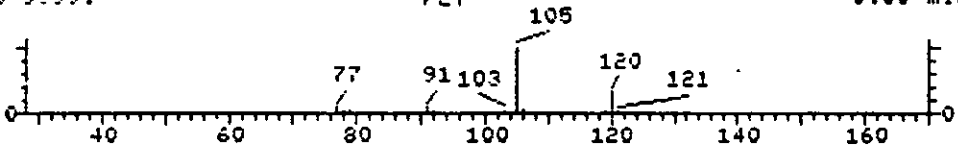
File "BIGDB Benzene, 1-ethyl-4-methyl- (9CI) Scan 12268
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-2-methyl- (9CI) Scan 12266
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-3-methyl- (9CI) Scan 12267
 Spk Ab 9999. FLT 0.00 min.



000120

~~C10H14 ISOMER~~

10-2-91

FILE NUMBER: 14

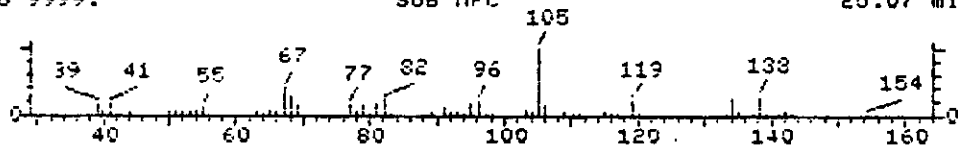
- | | |
|---|------------|
| 1. Benzene, 1-methyl-3-propyl- (9CI) <i>Wane</i> | 134 C10H14 |
| 2. Benzene, 1-methyl-2-propyl- (9CI) | 134 C10H14 |
| 3. Benzene, 1-methyl-4-propyl- (9CI) | 134 C10H14 |
| 4. Benzene, (1-methylpropyl)- (9CI) | 134 C10H14 |
| 5. Benzene, 1,1'-di-methyl-1,2-ethanediyl(bis)- (9CI) | 195 C15H16 |
| 6. Benzene, (1-methyl-3-butenyl)- (9CI) | 136 C11H14 |

A10/6a1

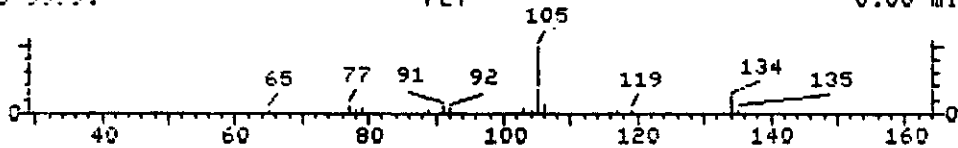
Sample file: >F2942 Spectrum #: 1980
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

Prob.	CAS #	CON #	POOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV	
1.	69*	1074437	14464	"BIGDB	81	6	0	3	98	54	35	94
2.	59*	1074175	14463	"BIGDB	67	18	1	2	100	48	14	69
3.	57*	1074551	14465	"BIGDB	56	27	0	1	97	48	14	67
4.	47*	135988	14459	"BIGDB	57	29	0	0	93	55	11	69
5.	11	5914857	9857	"BIGDB	57	42	2	0	100	54	2	16
6.	11	10340495	9870	"BIGDB	46	34	2	0	100	64	2	15

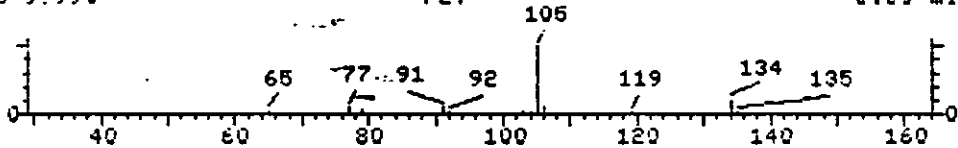
File: F2942 EALSM 10147-4 10ULX V6 CH10 5ULIS ID# UCC-SP-8-19 Scan 1980
 Spk Ab 9999. SUB MPC 25.07 min.



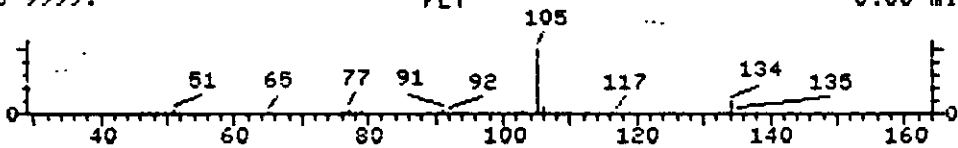
File: "BIGDB Benzene, 1-methyl-3-propyl- (9CI) Scan 14464
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Benzene, 1-methyl-2-propyl- (9CI) Scan 14463
 Spk Ab 9999. FLT 0.00 min.



File: "BIGDB Benzene, 1-methyl-4-propyl- (9CI) Scan 14465
 Spk Ab 9999. FLT 0.00 min.



~~C10H14~~
~~ISOMER~~

10-20-91

TIC NUMBER: 15

1. Benzene, 2-ethyl-1,4-dimethyl- (9CI) *(Somer)*
2. Benzene, 1-ethyl-2,3-dimethyl- (9CI)
3. Benzene, 4-ethyl-1,2-dimethyl- (9CI)
4. Benzene, 1-methyl-3-(1-methylethyl)- (9CI)
5. Benzene, 1-ethyl-3,5-dimethyl- (9CI)
6. Ethanone, 1-(methylphenyl)- (9CI)

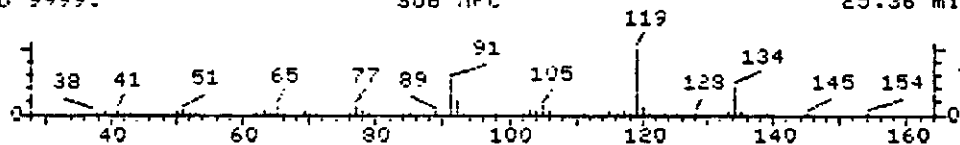
~~134 C10H14
134 C10H14
134 C10H14
134 C10H14
134 C10H14
134 C9H10O~~

✓ A 10/16/91

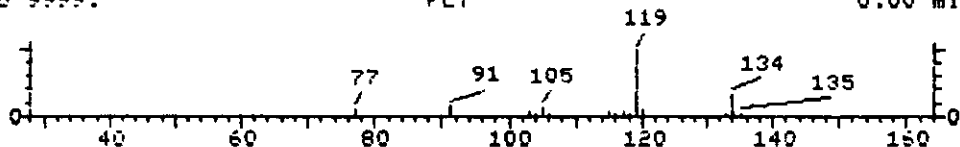
Sample file: >F2942 Spectrum #: 2004
Search speed: 2 Tilting option: S No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV	
1.	95*	1758839	12181	"BIGDB	36	8	0	0	92	16	60	96
2.	93*	933982	12172	"BIGDB	79	12	1	0	100	16	60	93
3.	86*	934805	12173	"BIGDB	72	21	0	0	100	16	50	89
4.	71*	535773	12170	"BIGDB	53	36	0	0	100	26	29	65
5.	70*	934747	12180	"BIGDB	70	25	2	0	100	16	32	55
6.	70*	26444199	12182	"BIGDB	65	27	1	-2	93	16	32	52

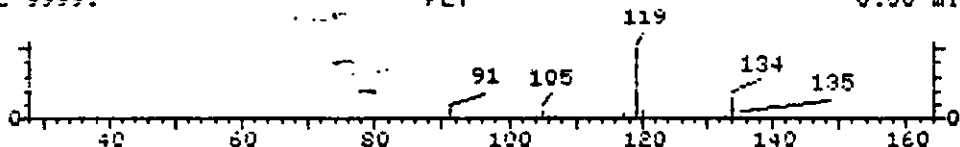
File >F2942 BALEM-10147-4 10ULX V6 CH10 SULIS IO# UCC-SB-B-19 Scan 2004
Spk Ab 9999. SUB MPC 25.36 min.



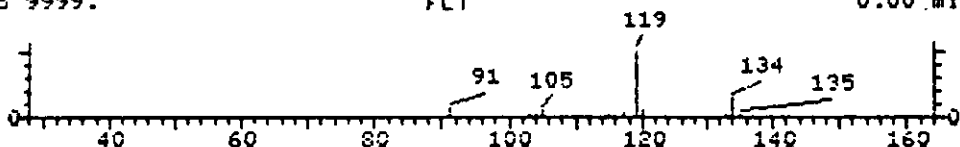
File "BIGDB Benzene, 2-ethyl-1,4-dimethyl- (9CI) Scan 12161
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 1-ethyl-2,3-dimethyl- (9CI) Scan 12172
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Benzene, 4-ethyl-1,2-dimethyl- (9CI) Scan 12173
Spk Ab 9999. FLT 0.00 min.



000122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-7-QA1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 10147-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2837

Level: (low/med) LOW Date Received: 10/08/91

% Moisture: not dec. _____ Date Analyzed: 10/09/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	5	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10-7-QA1

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 10147-07
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2837
Level: (low/med) LOW Date Received: 10/08/91
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

* - Compound is an Internal Standard
 D - Compound Deleted

L 100991 UGA

R 100991 UGA

N/C

Reduced by: 100
 Reviewed by: 5/11

Date: 100991
 Date: 10/6/91

Data File: >F2837
 Page: 1
 Mech2

Enseco Mass Spectrometry
 Target Compound Data Summary Sheet

Sample: BALSAM 10147-7 5ML
 Misc : U6 CH#2 SULIS ID# UCC-10/7-QA1
 Injected : 10/09/91 16:37
 Analyst: LIZ
 IO File: MOBID6
 Quant list threshold: 1.00

Units: UG/L
 Run Factor: 1.000
 Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2707	108	76 114
CS05 D8-Toluene	.2500	.2453	98.1	88 110
CS10 Bromofluorobenzene	.2500	.2486	99.4	86 115

Target Compounds: MOBID6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/L	
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
263	4.706	4.7	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

000125

Sample: EALSAM 10147-7 5ML

Scan #	Concentration Quant list UG/L	Sample UG/L	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

000126

Diagnostic Quant Report

Data File: >F2837::D6 Injected at: 16:37 10/09/91

Quant'd : 17:05 10/09/91

ID File : MOBID6::MT Calibrated : 09:37 08/14/91

- R.T. Info -

Compound	Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C101 Bromochloromethane	7.33	7.37	.04	128.0	67067	1.0000	50.00
2) C010 Chloromethane	2.74	0.00	--	50.0	0	1.3236	0.00
3) C020 Vinyl Chloride	2.89	0.00	--	62.0	0	1.3500	0.00
4) C015 Bromomethane	3.29	0.00	--	94.0	0	1.2156	0.00
5) C025 Chloroethane	3.42	0.00	--	64.0	0	.5022	0.00
6) C045 1,1-Dichloroethene	4.41	0.00	--	96.0	0	1.5071	0.00
7) C035 Acetone	4.47	0.00	--	43.0	0	.1843	0.00
8) C040 Carbon Disulfide	4.71	4.70	.01	76.0	3094	4.4340	.52
9) C030 Methylene Chloride	5.05	5.03	.02	84.0	11361	1.7999	4.71
10) CXXX Tert-butyl alcohol	5.19	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.44	0.00	--	96.0	0	1.8441	0.00
12) C055 Cis-1,2-dichloroethe	6.97	0.00	--	96.0	0	1.9832	0.00
13) CXXX Methyl tert-butyl et	5.44	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	6.06	0.00	--	63.0	0	3.5329	0.00
15) C060 Chloroform	7.52	7.49	.04	83.0	2796	3.7902	.55
16) C065 1,2-Dichloroethane	8.55	0.00	--	62.0	0	2.1737	0.00
17) C110 2-Butanone	6.99	0.00	--	72.0	0	.1091	0.00
18) C015 D4-1,2-dichloroethan	8.41	8.38	.03	65.0	114067	1.5708	54.14
19) *C110 1,4-Difluorobenzene	9.23	9.26	.02	114.0	363370	1.0000	50.00
20) C125 Vinyl Acetate	6.11	0.00	--	43.0	0	.6048	0.00
21) C115 1,1,1-Trichloroethan	7.82	0.00	--	97.0	0	.5974	0.00
22) C120 Carbon Tetrachloride	8.12	0.00	--	117.0	0	.4898	0.00
23) C165 Benzene	8.51	0.00	--	78.0	0	.9908	0.00
24) C150 Trichloroethene	9.78	0.00	--	130.0	0	.4258	0.00
25) C140 1,2-Dichloropropane	10.26	0.00	--	63.0	0	.4057	0.00
26) C130 Bromodichloromethane	10.89	0.00	--	83.0	0	.6001	0.00
27) C175 2-Chloroethylvinylet	11.62	0.00	--	63.0	0	.1776	0.00
28) C143 Cis-1,3-Dichloroprop	11.94	0.00	--	75.0	0	.5829	0.00
29) C172 Trans-1,3-dichloropr	13.35	0.00	--	75.0	0	.4482	0.00
30) C160 1,1,2-Trichloroethan	13.82	0.00	--	97.0	0	.2952	0.00
31) C155 Dibromochloromethane	14.86	0.00	--	129.0	0	.4676	0.00
32) C180 Bromoform	19.06	0.00	--	173.0	0	.2627	0.00
33) *C120 D5-Chlorobenzene	16.44	16.47	.03	117.0	283117	1.0000	50.00
34) C005 D8-Toluene	12.58	12.59	.01	98.0	360677	1.2981	49.07
35) C205 4-Methyl-2-pentanone	12.33	0.00	--	43.0	0	.3240	0.00
36) C230 Toluene	12.73	0.00	--	92.0	0	.9048	0.00
37) C210 2-Hexanone	14.54	0.00	--	43.0	0	.2131	0.00
38) C220 Tetrachloroethene	14.15	0.00	--	164.0	0	.4676	0.00
39) C235 Chlorobenzene	16.54	0.00	--	112.0	0	1.0869	0.00
40) C240 Ethylbenzene	16.93	0.00	--	106.0	0	.5461	0.00
41) CXXX Xylenes (p)	17.29	0.00	--	106.0	0	.6696	0.00
42) CXXX Xylenes (o)	18.49	0.00	--	106.0	0	.6363	0.00
43) C245 Styrene	18.54	0.00	--	104.0	0	1.1149	0.00
44) C225 1,1,2,2-Tetrachloroe	20.71	0.00	--	83.0	0	.5730	0.00
45) C010 Bromofluorobenzene	20.13	20.12	.01	95.0	200889	.7136	49.71
46) C335 Dichlorobenzene (m)	23.69	0.00	--	146.0	0	.9300	0.00
47) C340 Dichlorobenzene (p)	24.00	0.00	--	146.0	0	.8481	0.00
48) C350 Dichlorobenzene (o)	25.21	0.00	--	146.0	0	.8417	0.00

000127

Internal Standard Comparison

Sample: >F2837 Date injected: 10/09/91 Standard: >F2827

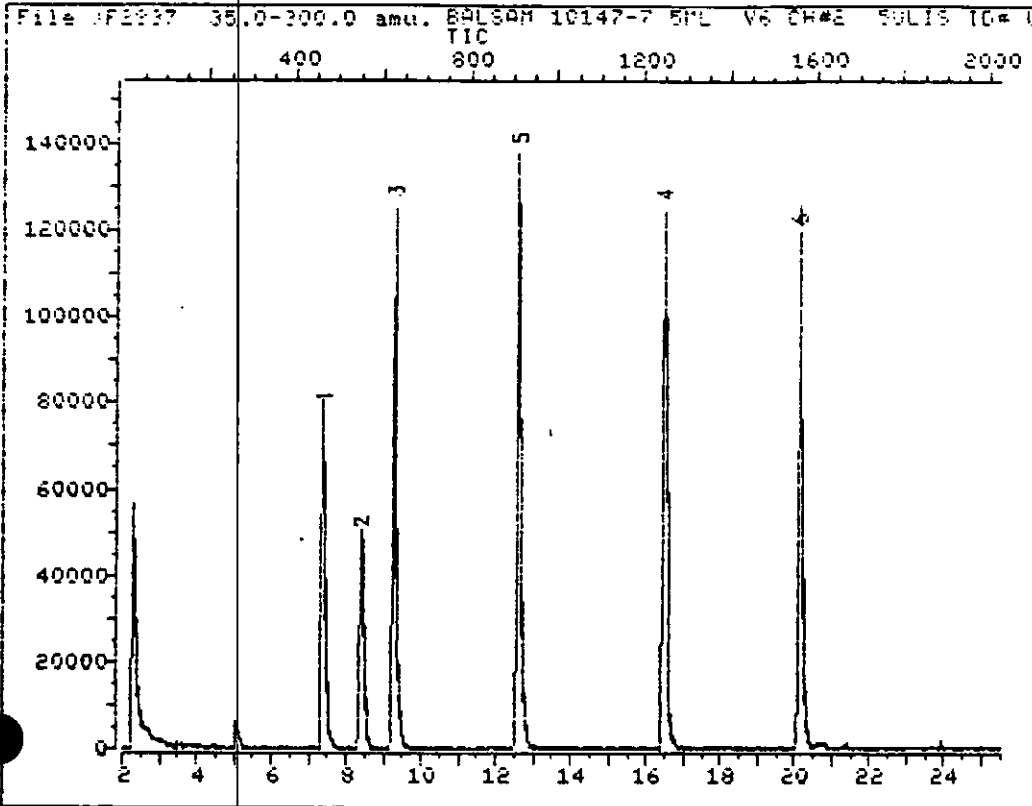
Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	67067	75510	88.8
CI10 1,4-Difluorobenzene	363370	407259	89.2
CI20 O5-Chlorobenzene	283117	308421	91.8

% = (Sample Area/Std Area)*100

* Area outside limits

000128

TOTAL ION CHROMATOGRAM



Data File: >F2837::D6

Quant Output File: ^F2837::D7

Name: BALSAM 10147-7 5ML

Instrument ID: U6

Misc: U6 CH#2 5ULIS 10# UCC-10/7-QA1

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911009 10:28

Operator ID: LIZ

Quant Time : 911009 17:05

Injected at: 911009 16:37

000129

QUANT REPORT

Page 1

Operator ID: LIZ
 Output File: >F2837::D7
 Data File: >F2837::D6
 Name: BALSAM 10147-7 5ML
 Misc: U6 CH#2 SULIS ID# UCC-10/7-QA1

Quant Rev: 7
 Quant Time: 911009 17:05
 Injected at: 911009 16:37
 Dilution Factor: 1.00000
 Instrument ID: U6

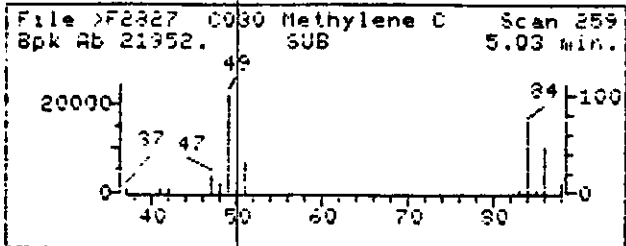
ID File: MOBID6::MT
 Title: PSL VOLATILES: 75m x .53mm: DB624 U6 ERCC/ENSECO
 Last Calibration: 910814 09:37
 Last Qcal Time: 911009 10:28

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.37	128.0	67067	50.00	UG/L	62
8) C040 Carbon Disulfide	4.70	76.0	3094	.520	UG/L	100
9) C030 Methylene Chloride	5.03	84.0	11361	4.71	UG/L	68
15) C060 Chloroform	7.49	83.0	2796	.550	UG/L	97
18) CS15 D4-1,2-dichloroethane	8.38	65.0	114067	54.14	UG/L	86
19) *CI10 1,4-Difluorobenzene	9.26	114.0	363370	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.47	117.0	283117	50.00	UG/L	100
34) CS05 D8-Toluene	12.59	98.0	360677	49.07	UG/L	96
35) CS10 Bromofluorobenzene	20.12	95.0	200889	49.71	UG/L	67

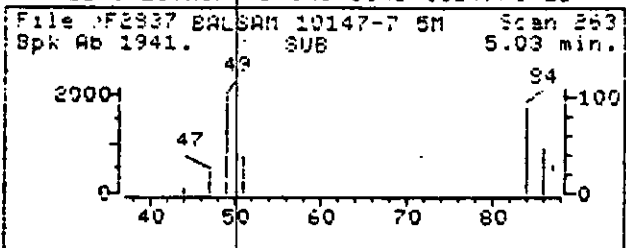
* Compound is ISTD

000130

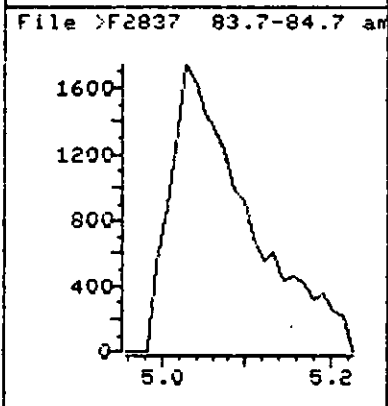
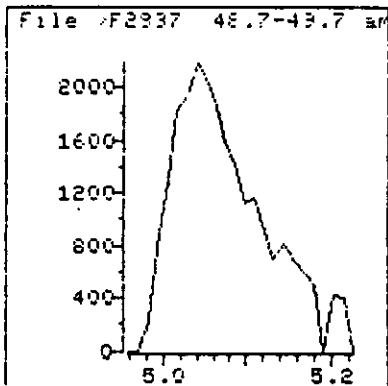
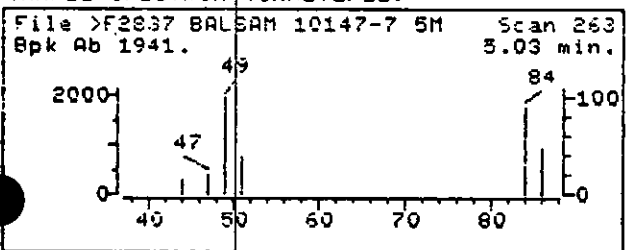
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2837::06
Name: BALSAM 10147-7 5ML
Misc: U6 CH#2 5ULIS ID# UCC-10/7-QA1
Quant Time: 911009 17:05
Injected at: 911009 16:37
Last Qcal Time: 911009 10:28

Quant Output File: ^F2837::07
Instrument ID: U6
Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 9
Compound Name : C030 Methylene Chloride
Scan Number : 263
Retention Time: 5.03 min.
Quant Ion : 84.0
Area : 11361
Concentration : 4.71 UG/L
q-value : 68

Data Reduced by : ~~SP~~ Date: 10/29/91
Data Reviewed by : ~~SP~~ Date: 10/16/91

Data File: >F2837

Enseco TIC Report (page 1)

Sample: BALSAM 10147-7 5ML Run Factor: 1.00
Conditions: MS CH#2 5ULIS ID# UCC-1017-QA Analyst: LIZ

Concentration
In Sample

# Scan	Q	C	(UG/L)	CAS #	Compound
					(N) UNKNOWN

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Instrument ID: V2 Calibration Date(s): 10/09/91 10/09/91

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: _____ RRF20 = B2923 RRF50 = B2922
 RRF100 = B2915 RRF150 = B2919 RRF200 = B2916

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	1.195	0.998	0.669	0.992	1.028	0.976	19.6#
Bromomethane	0.896	0.709	0.624	0.566	0.382	0.635	29.7
Vinyl Chloride	1.300	1.104	0.785	1.163	1.217	1.114	17.7*
Chloroethane	0.677	0.546	0.467	0.477	0.351	0.504	23.7
Methylene Chloride	2.347	1.991	1.498	1.488	2.876	2.040	28.9
Acetone	0.574	0.480	0.332	0.435	0.541	0.472	20.2
Carbon Disulfide	5.214	4.844	3.501	4.542	5.006	4.621	14.6
1,1-Dichloroethene	1.192	0.986	0.790	0.947	1.036	0.990	14.7*
1,1-Dichloroethane	3.745	3.324	2.462	3.492	4.093	3.423	17.8#
1,2-Dichloroethene (total)	2.059	1.797	1.316	1.855	2.348	1.875	20.2
Chloroform	3.592	3.223	2.398	3.361	4.107	3.336	18.7*
1,2-Dichloroethane	2.204	2.008	1.579	2.241	2.920	2.190	22.2
2-Butanone	0.323	0.221	0.160	0.238	0.376	0.264	32.4
1,1,1-Trichloroethane	0.624	0.547	0.367	0.566	0.671	0.555	20.9
Carbon Tetrachloride	0.534	0.480	0.326	0.518	0.623	0.496	21.9
Vinyl Acetate	0.805	0.799	0.717	1.030	1.093	0.889	18.3
Bromodichloromethane	0.652	0.609	0.435	0.652	0.799	0.629	20.7
1,2-Dichloropropane	0.510	0.460	0.313	0.501	0.598	0.476	21.9*
cis-1,3-Dichloropropene	0.648	0.617	0.448	0.686	0.839	0.648	21.7
Trichloroethene	0.527	0.462	0.302	0.481	0.539	0.462	20.6
Dibromochloromethane	0.479	0.461	0.330	0.523	0.647	0.488	23.4
1,1,2-Trichloroethane	0.365	0.330	0.229	0.365	0.469	0.352	24.4
Benzene	1.582	1.366	0.893	1.210	1.218	1.254	20.1
trans-1,3-Dichloropropene	0.440	0.421	0.319	0.499	0.674	0.471	27.8
2-Chloroethylvinylether	0.263	0.232	0.167	0.272	0.435	0.274	36.2
Bromoform	0.369	0.341	0.249	0.386	0.520	0.373	26.2#
4-Methyl-2-Pentanone	0.884	0.707	0.446	0.776	1.061	0.775	29.3
2-Hexanone	0.493	0.370	0.244	0.386	0.637	0.426	34.6
Tetrachloroethene	0.466	0.444	0.287	0.490	0.596	0.457	24.4
1,1,2,2-Tetrachloroethane	1.123	0.983	0.603	0.958	1.153	0.964	22.7#
Toluene	1.019	0.958	0.620	0.988	1.180	0.953	21.5*
Chlorobenzene	1.239	1.135	0.738	1.134	1.342	1.118	20.5#
Ethylbenzene	0.618	0.542	0.345	0.552	0.667	0.545	22.5*
Styrene	1.316	1.135	0.720	1.045	1.185	1.080	20.7
Xylene (total)	0.819	0.716	0.433	0.669	0.714	0.670	21.4
Toluene-d8	1.492	1.394	1.256	1.236	1.215	1.319	9.1
Bromofluorobenzene	0.730	0.635	0.582	0.567	0.590	0.621	10.6
1,2-Dichloroethane-d4	1.535	1.418	1.701	1.426	1.502	1.516	7.6

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Instrument ID: V2 Calibration Date(s): 10/11/91 10/12/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF20 = <u>B2952</u>	RRF50 = <u>B2951</u>
RRF100 = <u>B2955</u>	RRF150 = <u>B2956</u>	RRF200 = <u>B2959</u>

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	0.692	0.412	0.469	0.436	0.267	0.455	33.7#
Bromomethane	1.038	0.868	0.614	0.544	0.398	0.692	37.2
Vinyl Chloride	* 1.105	0.855	0.886	0.798	0.589	0.847	21.9*
Chloroethane	0.733	0.632	0.492	0.438	0.362	0.531	28.2
Methylene Chloride	2.143	2.182	1.952	1.908	0.389	1.715	43.8
Acetone	0.462	0.678	0.306	0.319	0.256	0.404	42.4
Carbon Disulfide	5.167	4.992	4.472	3.962	3.067	4.332	19.6
1,1-Dichloroethene	* 1.210	1.123	0.924	0.835	0.582	0.935	26.5*
1,1-Dichloroethane	# 3.537	3.638	3.285	3.068	3.042	3.314	8.1#
1,2-Dichloroethene (total)	1.912	1.889	1.785	1.637	1.627	1.770	7.6
Chloroform	* 3.441	3.547	3.212	3.004	3.098	3.260	7.0*
1,2-Dichloroethane	2.140	2.347	2.168	2.078	2.109	2.168	4.9
2-Butanone	1.010	1.136	0.915	0.937	1.080	1.016	9.2
1,1,1-Trichloroethane	0.536	0.451	0.445	0.448	0.384	0.453	12.0
Carbon Tetrachloride	0.490	0.417	0.425	0.425	0.375	0.426	9.7
Vinyl Acetate	0.777	0.979	0.921	0.949	0.732	0.872	12.6
Bromodichloromethane	0.623	0.588	0.582	0.583	0.554	0.586	4.2
1,2-Dichloropropane	* 0.460	0.426	0.438	0.450	0.429	0.441	3.2*
cis-1,3-Dichloropropene	0.592	0.618	0.638	0.623	0.594	0.613	3.2
Trichloroethene	0.482	0.417	0.417	0.417	0.385	0.424	8.4
Dibromochloromethane	0.433	0.455	0.448	0.453	0.443	0.446	2.0
1,1,2-Trichloroethane	0.324	0.329	0.320	0.324	0.332	0.326	1.4
Benzene	1.449	1.269	1.143	1.108	0.876	1.169	18.1
trans-1,3-Dichloropropene	0.435	0.478	0.486	0.464	0.495	0.472	5.0
2-Chloroethylvinylether	0.190	0.211	0.237	0.230	0.294	0.232	16.8
Bromoform	# 0.301	0.322	0.305	0.320	0.326	0.315	3.5#
4-Methyl-2-Pentanone	0.599	0.573	0.566	0.599	0.619	0.591	3.6
2-Hexanone	0.350	0.318	0.312	0.299	0.331	0.322	6.0
Tetrachloroethene	0.455	0.402	0.420	0.422	0.413	0.422	4.7
1,1,2,2-Tetrachloroethane	# 0.928	0.855	0.794	0.844	0.783	0.841	6.9#
Toluene	* 0.973	0.879	0.917	0.907	0.921	0.919	3.7*
Chlorobenzene	# 1.170	1.042	1.048	1.045	0.983	1.058	6.5#
Ethylbenzene	* 0.559	0.483	0.484	0.484	0.463	0.495	7.5*
Styrene	1.180	0.982	0.995	0.947	0.843	0.989	12.4
Xylene (total)	0.757	0.595	0.585	0.590	0.518	0.609	14.5
<hr/>							
Toluene-d8	1.489	1.320	1.245	1.221	1.154	1.286	10.0
Bromofluorobenzene	0.672	0.611	0.584	0.564	0.552	0.597	8.0
1,2-Dichloroethane-d4	1.569	1.598	1.502	1.456	1.441	1.513	4.5

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Instrument ID: V6 Calibration Date(s): 09/22/91 09/22/91

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

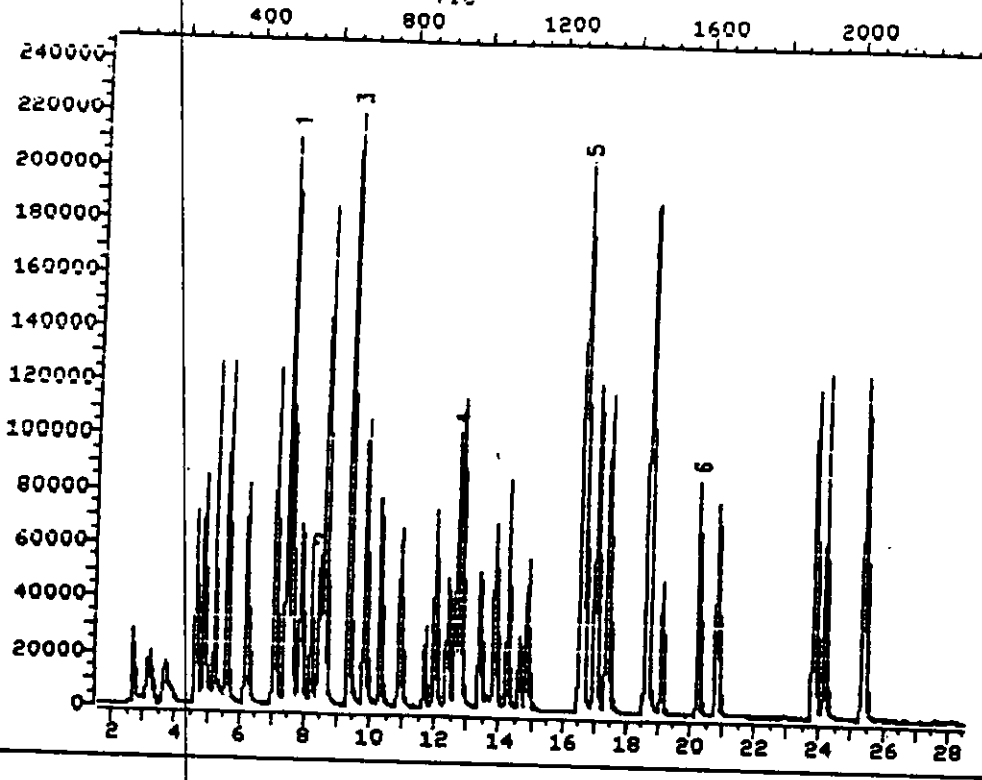
Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = F2560 RRF50 = F2557
RRF100 = F2561 RRF150 = F2562 RRF200 = F2563

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	# 1.360	1.302	1.234	1.144	1.188	1.246	7.0#
Bromomethane	1.323	1.100	1.017	0.926	0.910	1.055	15.9
Vinyl Chloride	* 1.398	1.319	1.273	1.125	1.174	1.258	8.7*
Chloroethane	0.837	0.723	0.655	0.548	0.493	0.651	21.1
Methylene Chloride	1.893	1.654	1.705	1.638	1.630	1.704	6.4
Acetone	0.273	0.190	0.201	0.194	0.198	0.211	16.5
Carbon Disulfide	4.539	4.000	4.256	3.923	4.063	4.156	5.9
1,1-Dichloroethene	* 1.595	1.424	1.405	1.228	1.282	1.387	10.3*
1,1-Dichloroethane	# 3.661	3.124	3.257	3.095	3.113	3.250	7.3#
1,2-Dichloroethene (total)	1.930	1.710	1.750	1.626	1.621	1.727	7.3
Chloroform	* 4.209	3.700	3.841	3.747	3.790	3.857	5.3*
1,2-Dichloroethane	2.410	2.081	2.239	2.089	2.036	2.171	7.1
2-Butanone	0.105	0.113	0.120	0.109	0.107	0.111	5.3
1,1,1-Trichloroethane	0.606	0.559	0.557	0.539	0.538	0.560	4.9
Carbon Tetrachloride	0.513	0.482	0.477	0.456	0.468	0.479	4.5
Vinyl Acetate	0.537	0.604	0.532	0.531	0.487	0.538	7.8
Bromodichloromethane	0.644	0.581	0.613	0.634	0.638	0.622	4.1
1,2-Dichloropropane	* 0.421	0.404	0.401	0.405	0.403	0.407	2.0*
cis-1,3-Dichloropropene	0.604	0.569	0.592	0.615	0.634	0.603	4.0
Trichloroethene	0.453	0.398	0.411	0.406	0.406	0.415	5.3
Dibromochloromethane	0.480	0.472	0.505	0.522	0.525	0.501	4.8
1,1,2-Trichloroethane	0.326	0.305	0.306	0.324	0.317	0.316	3.1
Benzene	1.112	0.969	0.969	0.994	0.960	1.001	6.3
trans-1,3-Dichloropropene	0.484	0.447	0.464	0.457	0.495	0.469	4.2
2-Chloroethylvinylether	0.193	0.186	0.186	0.194	0.190	0.190	2.0
Bromoform	# 0.264	0.283	0.301	0.330	0.333	0.302	9.9#
4-Methyl-2-Pentanone	0.361	0.319	0.312	0.354	0.313	0.332	7.2
2-Hexanone	0.241	0.243	0.215	0.256	0.225	0.236	6.8
Tetrachloroethene	0.466	0.437	0.407	0.433	0.407	0.430	5.7
1,1,2,2-Tetrachloroethane	# 0.608	0.606	0.555	0.632	0.581	0.596	4.9#
Toluene	* 0.907	0.852	0.778	0.860	0.796	0.839	6.2*
Chlorobenzene	# 1.105	1.056	0.981	1.093	1.048	1.057	4.6#
Ethylbenzene	* 0.554	0.527	0.467	0.515	0.483	0.509	6.8*
Styrene	1.157	1.119	1.029	1.122	1.064	1.098	4.6
Xylene (total)	0.644	0.619	0.558	0.600	0.582	0.601	5.5
Toluene-d8	1.318	1.254	1.152	1.246	1.261	1.246	4.8
Bromofluorobenzene	0.767	0.737	0.743	0.722	0.740	0.742	2.2
1,2-Dichloroethane-d4	1.915	1.724	1.746	1.683	1.729	1.759	5.1

TOTAL ION CHROMATOGRAM

File >B2923 35.0-300.0 amu. USTD020 HTD 5ML V2, CH08, 5UL IS
TIC



Data File: >B2923::D6
Name: USTD020 HTD 5ML
Misc: V2, CH08, 5UL IS

Quant Output File: ^B2923::QT

Id File: VOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911009 20:24
Injected at: 911009 19:55

QUANT REPORT

Operator ID: NJRA
 Output File: \B2923::QT
 Data File: \B2923::D6
 Name: UST0020 HTD 5ML
 Misc: V2, CH08,5UL IS

Quant Rev: 6 Quant Time: 911009 20:24
 Injected at: 911009 19:55
 Dilution Factor: 1.00000

ID File: VOHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
 Last Calibration: 911009 11:41

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.42	128.0		139895	50.00	UG/L	97
2)	C010 Chloromethane	3.11	50.0		66915	33.61	UG/L	98
3)	C020 Vinyl Chloride	3.24	62.0		72778	23.98	UG/L	86
4)	C015 Bromomethane	3.67	94.0		50198	17.52	UG/L	94
5)	C025 Chloroethane	3.86	64.0		37903	17.88	UG/L	99
6)	C045 1,1-Dichloroethene	4.59	96.0		66749	17.09	UG/L	97
7)	C035 Acetone	4.66	43.0		32125	17.25	UG/L	100
8)	C040 Carbon Disulfide	4.86	76.0		292012	17.80	UG/L	100
9)	C030 Methylene Chloride	5.19	84.0		131427	57.16	UG/L	86
10)	C053 Trans-1,2-Dichloroethene	5.56	96.0		115301	22.38	UG/L	99
11)	C055 cis-1,2-Dichloroethene	7.04	96.0		119923	23.08	UG/L	94
12)	C050 1,1-Dichloroethane	6.15	63.0		209722	20.44	UG/L	87
13)	C060 Chloroform	7.56	83.0		201133	20.83	UG/L	95
14)	C065 1,2-Dichloroethane	8.57	62.0		123453	17.82	UG/L	100
15)	C110 2-Butanone	7.07	72.0		18103	21.66	UG/L	94
16)	CS15 04-1,2-Dichloroethane	8.43	65.0		85955	17.31	UG/L	79
17)	*C110 1,4-Difluorobenzene	9.31	114.0		522134	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.24	43.0		168128	13.62	UG/L	97
19)	C115 1,1,1-Trichloroethane	7.88	97.0		130318	23.43	UG/L	91
20)	C120 Carbon Tetrachloride	8.18	117.0		111592	21.35	UG/L	97
21)	C165 Benzene	8.56	78.0		330403	24.21	UG/L	100
22)	C150 Trichloroethene	9.83	130.0		110106	24.89	UG/L	96
23)	C140 1,2-Dichloropropane	10.28	63.0		106517	22.27	UG/L	100
24)	C130 Bromodichloromethane	10.91	83.0		136053	20.50	UG/L	78
25)	C175 2-Chloroethylvinylether	11.66	63.0		49451	18.62	UG/L	95
26)	C143 Cis-1,3-Dichloropropen	11.96	75.0		142135	20.96	UG/L	96
27)	C172 Trans-1,3-Dichloropropen	13.39	75.0		91874	16.74	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.85	97.0		76129	21.26	UG/L	70
29)	C155 Dibromochloromethane	14.88	129.0		100003	19.29	UG/L	98
30)	C180 Bromoform	19.10	173.0		77054	19.16	UG/L	97
31)	*C120 05-Chlorobenzene	16.52	117.0		385064	50.00	UG/L	100
32)	CS05 08-Toluene	12.63	98.0		229762	21.63	UG/L	93
33)	C205 4-Methyl-2-Pentanone	12.38	43.0		136059	21.09	UG/L	87
34)	C230 Toluene	12.79	92.0		156981	22.47	UG/L	96
35)	C210 2-Hexanone	14.61	43.0		75989	20.39	UG/L	98
36)	C220 Tetrachloroethene	14.21	164.0		71804	21.10	UG/L	89
37)	C235 Chlorobenzene	16.61	112.0		190854	22.26	UG/L	75
38)	C240 Ethylbenzene	17.02	106.0		95100	24.30	UG/L	98
39)	CXXX Xylene (p)	17.39	106.0		118316	24.40	UG/L	99
40)	CXXX Xylenes (o)	18.57	106.0		126086	24.68	UG/L	98
41)	C245 Styrene	18.63	104.0		202710	24.38	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.80	83.0		172968	21.48	UG/L	88

000137

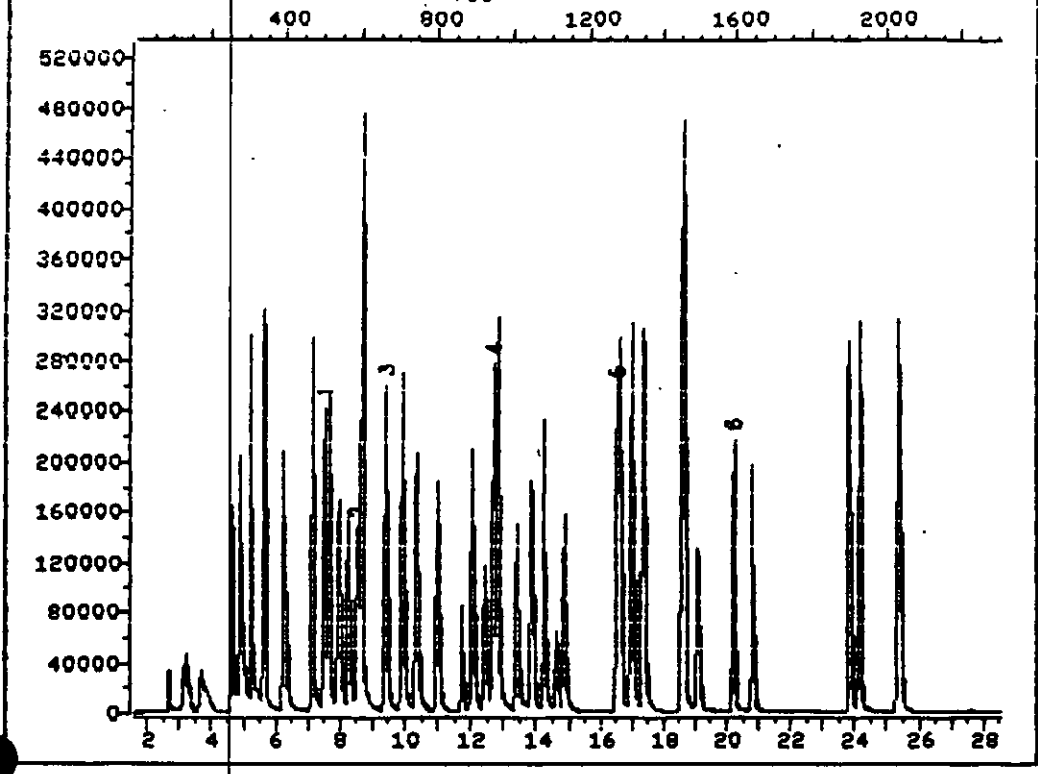
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.82	146.0	189955	22.63	UG/L	100
45)	C340 Dichlorobenzene (p)	24.14	146.0	194818	22.98	UG/L	100
46)	C350 Dichlorobenzene (o)	25.36	146.0	196129	22.52	UG/L	100
47)	C250 Xylene (Total)	18.57	106.0	126101	24.98	UG/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File >B2922 35.0-300.0 amu. VSTD050 HTD 5ML U2, CH14,5UL IS

TIC



Data File: >B2922::D6
Name: VSTD050 HTD 5ML
Misc: U2, CH14,5UL IS

Quant Output File: ^B2922::QT

Id File: VOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911009 19:10
Injected at: 911009 18:41

QUANT REPORT

Operator ID: NORA
 Output File: B2922::QT
 Data File: B2922::D6
 Name: USTD050 HTD 5ML
 Misc: U2, CH14, 5UL IS

Quant Rev: 6 Quant Time: 911009 19:10
 Injected at: 911009 18:41
 Dilution Factor: 1.00000

ID File: VOHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO HEATED
 Last Calibration: 911009 11:41

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.49	128.0		161511	50.00	UG/L	98
2)	C010 Chloromethane	3.12	50.0		161665	70.34	UG/L	99
3)	C020 Vinyl Chloride	3.25	62.0		178809	51.03	UG/L	88
4)	C015 Bromomethane	3.68	94.0		114889	34.74	UG/L	97
5)	C025 Chloroethane	3.87	64.0		88426	36.14	UG/L	99
6)	C045 1,1-Dichloroethene	4.61	96.0		159699	35.41	UG/L	95
7)	C035 Acetone	4.68	43.0		77700	36.14	UG/L	100
8)	C040 Carbon Disulfide	4.90	76.0		784801	41.44	UG/L	100
9)	C030 Methylene Chloride	5.22	84.0		322593	121.53	UG/L	85
10)	C053 Trans-1,2-Dichloroethene	5.61	96.0		291096	48.95	UG/L	96
11)	C055 cis-1,2-Dichloroethene	7.11	96.0		303477	50.59	UG/L	96
12)	C050 1,1-Dichloroethane	6.21	63.0		538419	45.45	UG/L	85
13)	C060 Chloroform	7.64	83.0		522136	46.83	UG/L	95
14)	C065 1,2-Dichloroethane	8.65	62.0		325212	40.67	UG/L	100
15)	C110 2-Butanone	7.14	72.0		35770	37.07	UG/L	96
16)	CS15 O4-1,2-Dichloroethane	8.51	65.0		229730	40.08	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.39	114.0		615593	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.30	43.0		492245	33.83	UG/L	96
19)	C115 1,1,1-Trichloroethane	7.96	97.0		336711	51.35	UG/L	92
20)	C120 Carbon Tetrachloride	8.27	117.0		295654	47.98	UG/L	99
21)	C165 Benzene	8.64	78.0		841466	52.31	UG/L	100
22)	C150 Trichloroethene	9.92	130.0		284322	54.53	UG/L	99
23)	C140 1,2-Dichloropropane	10.36	63.0		283272	50.23	UG/L	100
24)	C130 Bromodichloromethane	10.98	83.0		375391	47.98	UG/L	80
25)	C175 2-Chloroethylvinylether	11.72	63.0		131483	41.99	UG/L	95
26)	C143 Cis-1,3-Dichloropropen	12.03	75.0		402725	50.37	UG/L	97
27)	C172 Trans-1,3-Dichloropropen	13.42	75.0		259324	40.07	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.86	97.0		203268	48.16	UG/L	70
29)	C155 Dibromochloromethane	14.88	129.0		284128	46.49	UG/L	97
30)	C180 Bromoform	19.07	173.0		209791	44.25	UG/L	97
31)	*C120 O5-Chlorobenzene	16.51	117.0		445857	50.00	UG/L	100
32)	CS05 O8-Toluene	12.67	98.0		621806	50.55	UG/L	94
33)	C205 4-Methyl-2-Pentanone	12.43	43.0		315454	42.23	UG/L	85
34)	C230 Toluene	12.83	92.0		427230	52.82	UG/L	97
35)	C210 2-Hexanone	14.61	43.0		164917	38.23	UG/L	99
36)	C220 Tetrachloroethene	14.22	164.0		197832	50.21	UG/L	89
37)	C235 Chlorobenzene	16.59	112.0		506342	51.01	UG/L	74
38)	C240 Ethylbenzene	17.00	106.0		241881	53.37	UG/L	97
39)	CXXX Xylene (p)	17.38	106.0		295470	52.62	UG/L	98
40)	CXXX Xylenes (o)	18.55	106.0		321873	54.41	UG/L	94
41)	C245 Styrene	18.61	104.0		506248	52.59	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.79	83.0		438269	47.01	UG/L	3
43)	CS10 Bromofluorobenzene (BFB)	20.20	95.0		283338	50.76	UG/L	82

10/25/91

000140

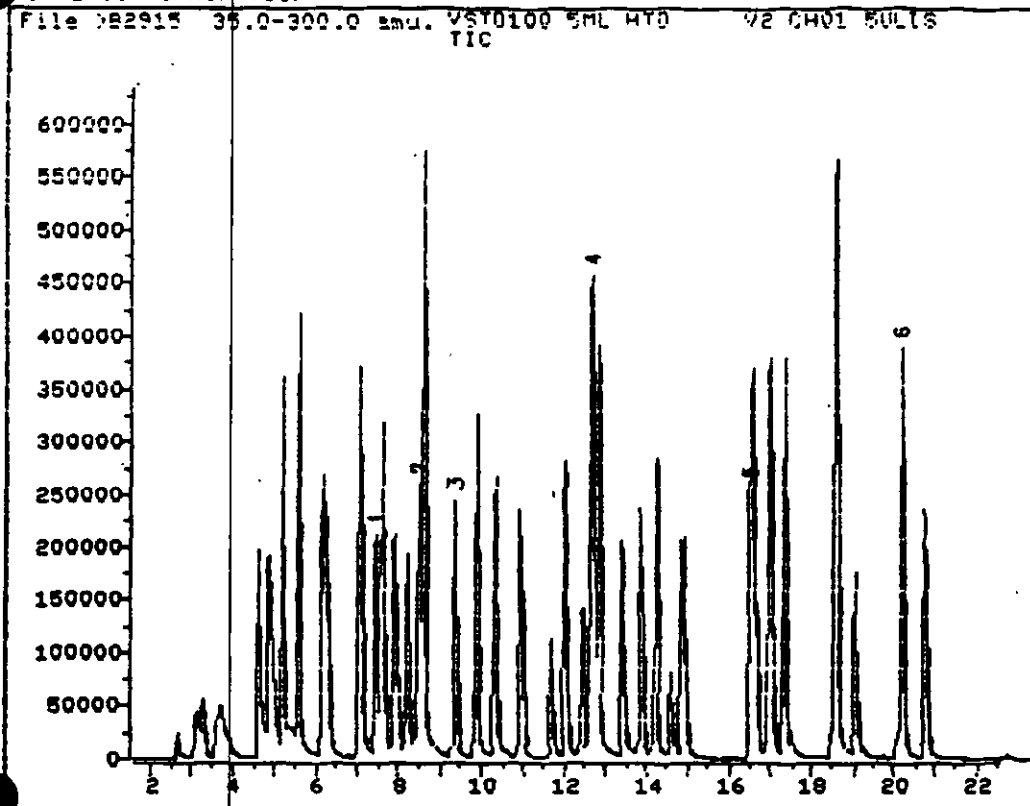
	Compound	R.T.	W ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.81	146.0	468904	48.25	UG/L	100
45)	C340 Dichlorobenzene (p)	24.14	146.0	471641	46.06	UG/L	100
46)	C350 Dichlorobenzene (o)	25.37	146.0	493070	48.89	UG/L	100
47)	C250 Xylene (Total)	18.55	106.0	319337	54.63	UG/L	98

* Compound is ISTD

000141

TOTAL ION CHROMATOGRAM

File >B2915 35.0-300.0 amu. VSTD100 5ML HTD V2 CH01 5ULIS
TIC



Data File: >B2915::D6
Name: VSTD100 5ML HTD
Misc: V2 CH01 5ULIS

Quant Output file: ^B2915::QT

Id File: UOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911009 14:28
Injected at: 911009 13:58

QUANT REPORT

Operator ID: NORA
 Output File: B2915::QT
 Data File: B2915::D6
 Name: USTD100 5ML HTD
 Misc: V2 CH01 5ULIS

Quant Rev: 6 Quant Time: 911009 14:28
 Injected at: 911009 13:58
 Dilution Factor: 1.00000

ID File: VOHI02::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSELU HEATED
 Last Calibration: 911009 11:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.44	128.0	140402	50.00	UG/L	95
2)	C010 Chloromethane	3.12	50.0	187418	93.80	UG/L	98
3)	C020 Vinyl Chloride	3.25	62.0	219915	72.20	UG/L	87
4)	C015 Bromomethane	3.67	94.0	174604	60.73	UG/L	93
5)	C025 Chloroethane	3.87	64.0	130865	61.52	UG/L	96
6)	C045 1,1-Dichloroethene	4.58	96.0	221305M	56.44	UG/L	96
7)	C035 Acetone	4.65	43.0	92840	49.67	UG/L	100
8)	C040 Carbon Disulfide	4.86	76.0	980244M	59.54	UG/L	100
9)	C030 Methylene Chloride	5.19	84.0	419368M	181.74	UG/L	88
10)	C053 Trans-1,2-Dichloroethene	5.56	96.0	368500	71.28	UG/L	95
11)	C055 cis-1,2-Dichloroethene	7.05	96.0	384384	73.71	UG/L	95
12)	C050 1,1-Dichloroethane	6.15	63.0	689471	66.94	UG/L	85
13)	C060 Chloroform	7.59	83.0	671444	69.28	UG/L	95
14)	C065 1,2-Dichloroethane	8.60	62.0	442151	63.61	UG/L	100
15)	C110 2-Butanone	7.07	72.0	44704	53.29	UG/L	96
16)	CS15 D4-1,2-Dichloroethane	8.46	65.0	476281	95.59	UG/L	85
17)	*C110 1,4-Difluorobenzene	9.33	114.0	562984	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.24	43.0	807825	60.71	UG/L	99
19)	C115 1,1,1-Trichloroethane	7.91	97.0	413117	68.89	UG/L	93
20)	C120 Carbon Tetrachloride	8.21	117.0	367026	65.13	UG/L	99
21)	C165 Benzene	8.57	78.0	1005546	68.34	UG/L	100
22)	C150 Trichloroethene	9.86	130.0	340068	71.31	UG/L	98
23)	C140 1,2-Dichloropropane	10.31	63.0	352245	68.29	UG/L	100
24)	C130 Bromodichloromethane	10.93	83.0	490080	68.49	UG/L	79
25)	C175 2-Chloroethylvinylether	11.69	63.0	173294	60.52	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.99	75.0	535141	73.19	UG/L	95
27)	C172 Trans-1,3-Dichloropropen	13.40	75.0	359528	60.75	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.84	97.0	257625	66.74	UG/L	66
29)	C155 Dibromochloromethane	14.87	129.0	371207	66.42	UG/L	97
30)	C180 Bromoform	19.04	173.0	280270	64.65	UG/L	96
31)	*C120 D5-Chlorobenzene	16.50	117.0	426184	50.00	UG/L	100
32)	CS05 D8-Toluene	12.65	98.0	1070227	91.03	UG/L	99
33)	C205 4-Methyl-2-Pentanone	12.41	43.0	380303	53.26	UG/L	85
34)	C230 Toluene	12.81	92.0	528494	68.36	UG/L	95
35)	C210 2-Hexanone	14.60	43.0	207792	50.39	UG/L	99
36)	C220 Tetrachloroethene	14.22	164.0	244581	64.94	UG/L	89
37)	C235 Chlorobenzene	16.58	112.0	628542	66.25	UG/L	74
38)	C240 Ethylbenzene	16.98	106.0	294293	67.93	UG/L	98
39)	CXXX Xylene (p)	17.35	106.0	358032	66.70	UG/L	97
40)	CXXX Xylenes (o)	18.52	106.0	377767	66.81	UG/L	94
41)	C245 Styrene	18.58	104.0	613692	66.70	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.76	83.0	513764	57.66	UG/L	87
43)	CS10 Bromofluorobenzene (BFB)	20.16	95.0	495901	92.94	UG/L	87

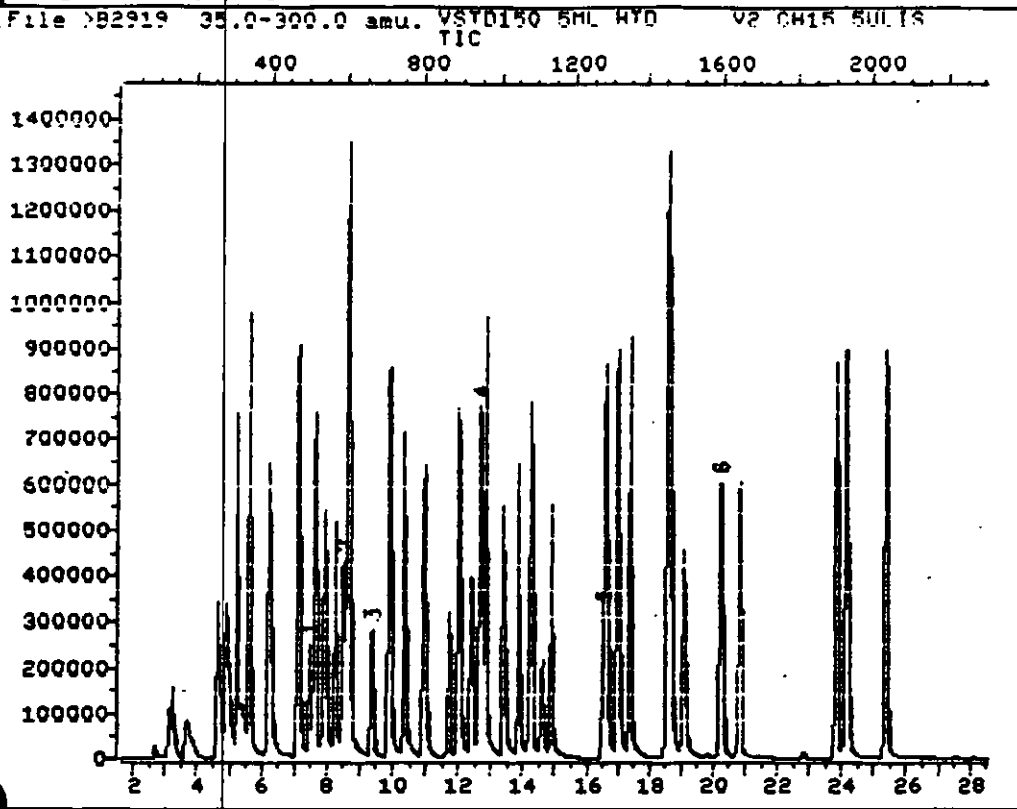
000143

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.80	146.0	540502	58.18	UG/L	100
45)	C340 Dichlorobenzene (p)	24.11	146.0	549665	58.59	UG/L	100
46)	C350 Dichlorobenzene (o)	25.35	146.0	556363	57.71	UG/L	100
47)	C250 Xylene (Total)	18.52	106.0	368913	66.03	UG/L	97

* Compound is ISTD

000144

TOTAL ION CHROMATOGRAM



Data File: >B2919::D6
Name: USTD150 5ML HTD
Misc: V2 CH15 5ULIS

Quant Output File: ^B2919::QT

Id File: UOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911009 17:08
Injected at: 911009 16:39

QUANT REPORT

Operator ID: NORA
 Output File: ^B2919::QT
 Data File: >B2919::D6
 Name: USTD150 5ML HTD
 Misc: U2 CH15 5ULIS

Quant Rev: 6 Quant Time: 911009 17:08
 Injected at: 911009 16:39
 Dilution Factor: 1.00000

ID File: UOHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO HEATED
 Last Calibration: 911009 11:41

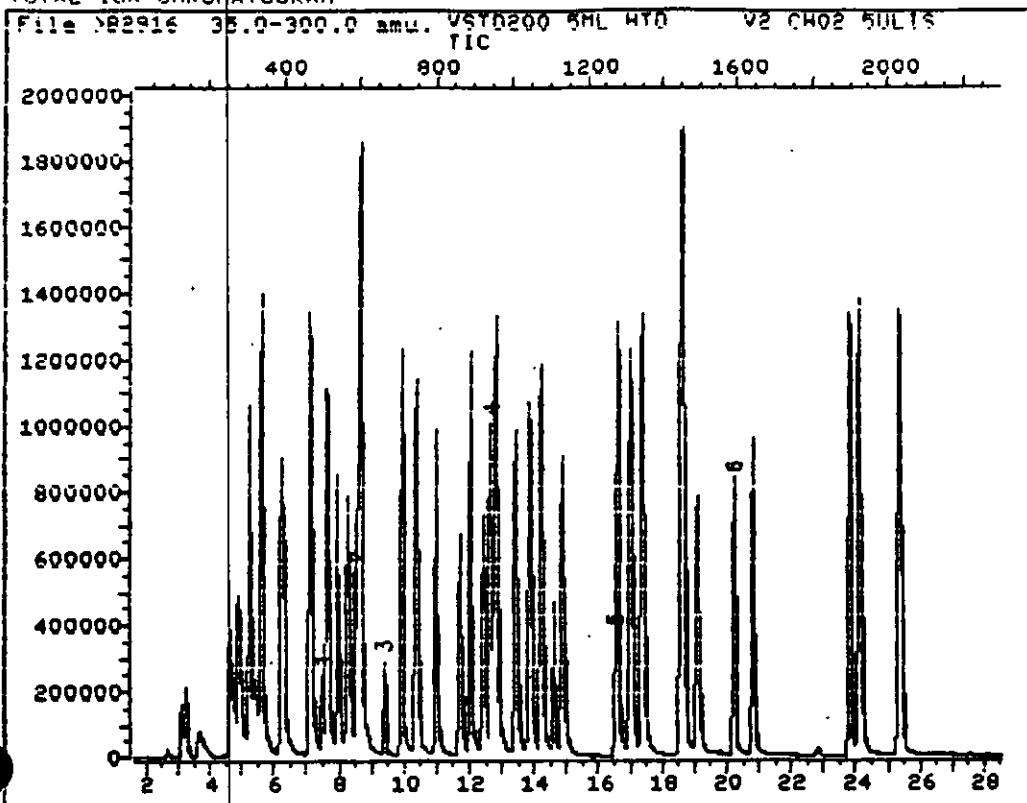
	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101	Bromochloromethane	7.46	128.0	162876	50.00	UG/L	97
2)	C010	Chloromethane	3.11	50.0	485197	209.34	UG/L	98
3)	C020	Vinyl Chloride	3.24	62.0	568824	160.98	UG/L	87
4)	C015	Bromomethane	3.66	94.0	276744	82.98	UG/L	93
5)	C025	Chloroethane	3.82	64.0	233260	94.53	UG/L	96
6)	C045	1,1-Dichloroethene	4.59	96.0	462849M	101.76	UG/L	91
7)	C035	Acetone	4.66	43.0	212545	98.02	UG/L	100
8)	C040	Carbon Disulfide	4.88	76.0	2220787M	116.28	UG/L	100
9)	C030	Methylene Chloride	5.20	84.0	727455	271.76	UG/L	86
10)	C053	Trans-1,2-Dichloroethene	5.58	96.0	907083	151.24	UG/L	99
11)	C055	cis-1,2-Dichloroethene	7.08	96.0	989257	163.52	UG/L	96
12)	C050	1,1-Dichloroethane	6.18	63.0	1707360	142.90	UG/L	92
13)	C060	Chloroform	7.62	83.0	1643313	146.17	UG/L	92
14)	C065	1,2-Dichloroethane	8.64	62.0	1095795	135.89	UG/L	100
15)	C110	2-Butanone	7.11	72.0	116136	119.34	UG/L	97
16)	CS15	D4-1,2-Dichloroethane	8.49	65.0	697063	120.60	UG/L	85
17)	*C110	1,4-Difluorobenzene	9.36	114.0	655605	50.00	UG/L	100
18)	C125	Vinyl Acetate	6.27	43.0	2027357	130.84	UG/L	94
19)	C115	1,1,1-Trichloroethane	7.94	97.0	1112964	159.37	UG/L	98
20)	C120	Carbon Tetrachloride	8.25	117.0	1019362	155.33	UG/L	98
21)	C165	Benzene	8.61	78.0	2380951	138.97	UG/L	100
22)	C150	Trichloroethene	9.90	130.0	945724	170.30	UG/L	95
23)	C140	1,2-Dichloropropane	10.35	63.0	986759	164.28	UG/L	100
24)	C130	Bromodichloromethane	10.96	83.0	1282244	153.89	UG/L	59
25)	C175	2-Chloroethylvinylether	11.69	63.0	493278	147.92	UG/L	96
26)	C143	Cis-1,3-Dichloropropen	12.00	75.0	1430451	167.99	UG/L	91
27)	C172	Trans-1,3-Dichloropropen	13.38	75.0	982821	142.61	UG/L	100
28)	C160	1,1,2-Trichloroethane	13.84	97.0	718231	159.77	UG/L	72
29)	C155	Dibromochloromethane	14.87	129.0	1028766	158.06	UG/L	97
30)	C180	Bromoform	19.08	173.0	759471	150.43	UG/L	97
31)	*C120	D5-Chlorobenzene	16.51	117.0	471789	50.00	UG/L	100
32)	CS05	D8-Toluene	12.64	98.0	1749876	134.45	UG/L	95
33)	C205	4-Methyl-2-Pentanone	12.41	43.0	1098856	139.00	UG/L	80
34)	C230	Toluene	12.81	92.0	1398981	163.46	UG/L	92
35)	C210	2-Hexanone	14.60	43.0	546793	119.78	UG/L	99
36)	C220	Tetrachloroethene	14.22	164.0	693371	166.31	UG/L	90
37)	C235	Chlorobenzene	16.59	112.0	1606173	152.93	UG/L	77
38)	C240	Ethylbenzene	16.99	106.0	781476	162.95	UG/L	93
39)	CXXX	Xylene (p)	17.39	106.0	980289	164.97	UG/L	90
40)	CXXX	Xylenes (o)	18.56	106.0	949082	151.63	UG/L	91
41)	C245	Styrene	18.62	104.0	1479718	145.27	UG/L	100
42)	C225	1,1,2,2-Tetrachloroethan	20.80	83.0	1356192	137.49	UG/L	89
43)	CS10	Bromofluorobenzene (BFB)	20.21	95.0	802341	135.84	UG/L	88

000146

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.81	146.0	1382367	134.43	UG/L	100
45)	C340 Dichlorobenzene (p)	24.13	146.0	1422165	136.95	UG/L	100
46)	C350 Dichlorobenzene (o)	25.36	146.0	1452759	136.13	UG/L	100
47)	C250 Xylene (Total)	18.56	106.0	947816	153.24	UG/L	83

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B2916::D6
Name: USTD200 5ML HTD
Misc: V2 CH02 5ULIS

Quant Output File: ^B2916::QT

Id File: VOHID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911009 15:10
Injected at: 911009 14:40

000148

QUANT REPORT

Operator ID: NORA
 Output File: B2916::QT
 Data File: B2916::D6
 Name: VSTD200 5ML HTD
 Misc: V2 CH02 5ULIS

Quant Rev: 6 Quant Time: 911009 15:10
 Injected at: 911009 14:40
 Dilution Factor: 1.00000

ID File: VDHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
 Last Calibration: 911009 11:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.49	128.0	150259	50.00	UG/L	96
2)	C010 Chloromethane	3.10	50.0	616764	288.44	UG/L	98
3)	C020 Vinyl Chloride	3.24	62.0	730147	223.98	UG/L	87
4)	C015 Bromomethane	3.66	94.0	229084	74.46	UG/L	94
5)	C025 Chloroethane	3.86	64.0	210773	92.58	UG/L	99
6)	C045 1,1-Dichloroethene	4.60	96.0	621542M	148.12	UG/L	88
7)	C035 Acetone	4.70	43.0	324829	162.38	UG/L	100
8)	C040 Carbon Disulfide	4.93	76.0	3003597	170.48	UG/L	100
9)	C030 Methylene Chloride	5.23	84.0	1725847M	698.87	UG/L	86
10)	C053 Trans-1,2-Dichloroethene	5.60	96.0	1408612	254.59	UG/L	87
11)	C055 cis-1,2-Dichloroethene	7.10	96.0	1492342	267.39	UG/L	93
12)	C050 1,1-Dichloroethane	6.20	63.0	2456052	222.83	UG/L	92
13)	C060 Chloroform	7.64	83.0	2463970	237.56	UG/L	75
14)	C065 1,2-Dichloroethane	8.66	62.0	1752079	235.52	UG/L	100
15)	C110 2-Butanone	7.15	72.0	225430	251.10	UG/L	94
16)	CS15 D4-1,2-Dichloroethane	8.52	65.0	901013	168.97	UG/L	81
17)	*C110 1,4-Difluorobenzene	9.39	114.0	642810	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.30	43.0	2810834	185.01	UG/L	70
19)	C115 1,1,1-Trichloroethane	7.96	97.0	1726629	252.17	UG/L	94
20)	C120 Carbon Tetrachloride	8.26	117.0	1602683	249.07	UG/L	99
21)	C165 Benzene	8.63	78.0	3132896	186.49	UG/L	100
22)	C150 Trichloroethene	9.90	130.0	1386619	254.66	UG/L	99
23)	C140 1,2-Dichloropropane	10.36	63.0	1538035	261.16	UG/L	100
24)	C130 Bromodichloromethane	10.97	83.0	2054235	251.44	UG/L	75
25)	C175 2-Chloroethylvinylether	11.71	63.0	1030209	315.08	UG/L	93
26)	C143 Cis-1,3-Dichloropropen	12.01	75.0	2287629	274.01	UG/L	85
27)	C172 Trans-1,3-Dichloropropen	13.41	75.0	1733394	256.52	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.86	97.0	1206426	273.71	UG/L	71
29)	C155 Dibromochloromethane	14.88	129.0	1663970	260.74	UG/L	97
30)	C180 Bromoform	19.09	173.0	1336314	269.96	UG/L	90
31)	*C120 D5-Chlorobenzene	16.52	117.0	468088	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0	2274032	176.10	UG/L	96
33)	C205 4-Methyl-2-Pentanone	12.42	43.0	1986293	253.25	UG/L	79
34)	C230 Toluene	12.82	92.0	2209844	260.25	UG/L	55
35)	C210 2-Hexanone	14.61	43.0	1192395	263.26	UG/L	95
36)	C220 Tetrachloroethene	14.22	164.0	1116072	269.82	UG/L	80
37)	C235 Chlorobenzene	16.60	112.0	2511621	241.03	UG/L	80
38)	C240 Ethylbenzene	17.01	106.0	1248322	262.35	UG/L	69
39)	CXXX Xylene (p)	17.39	106.0	1520942	257.98	UG/L	81
40)	CXXX Xylenes (o)	18.57	106.0	1341587	216.03	UG/L	93
41)	C245 Styrene	18.64	104.0	2217977	219.48	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.81	83.0	2158694	220.57	UG/L	96
43)	CS10 Bromofluorobenzene (BFB)	20.22	95.0	1104050	188.40	UG/L	86

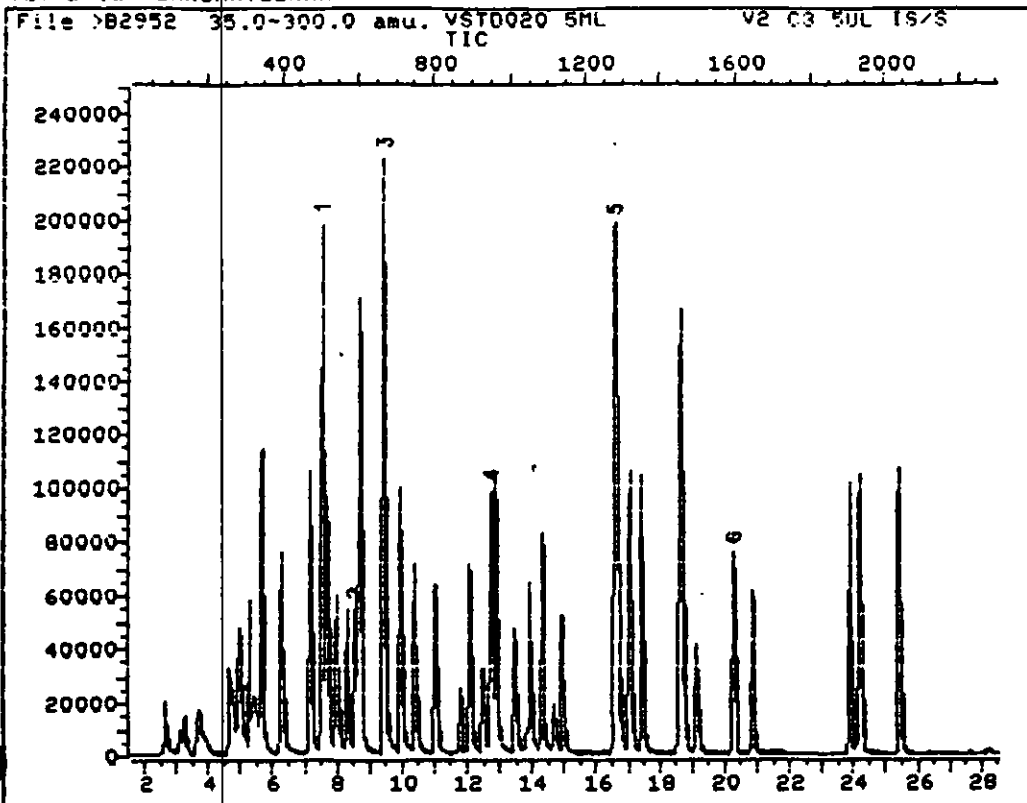
000149

	Compound	R.T.	W ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.82	146.0	2161494	211.85	UG/L	100
45)	C340 Dichlorobenzene (p)	24.14	146.0	2244862	217.88	UG/L	100
46)	C350 Dichlorobenzene (o)	25.35	146.0	2226534	210.29	UG/L	100
47)	C250 Xylene (Total)	18.57	106.0	1336792	217.83	UG/L	84

* Compound is ISTD

000150

TOTAL ION CHROMATOGRAM



Data File: >B2952::D6
Name: USTD020 5ML
Misc: V2 C3 5UL IS/S

Quant Output File: ^B2952::QT

Id File: UOAI02::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO
Last Calibration: 910829 00:11

Operator ID: NORA
Quant Time: 911011 19:25
Injected at: 911011 18:56

QUANT REPORT

Operator ID: NORA
 Output File: ^B2952::QT
 Data File: >B2952::D6
 Name: USTD020 5ML
 Misc: U2 C3 5UL 1S/5

Quant Rev: 6 Quant Time: 911011 19:25
 Injected at: 911011 18:56
 Dilution Factor: 1.00000

ID File: VOA102::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO
 Last Calibration: 910829 00:11

	Compound	R.T.	Q ion	Area	Conc	Units	q	
1)	*C101	Bromochloromethane	7.53	128.0	136078	50.00	UG/L	82
2)	C010	Chloromethane	3.12	50.0	37658	18.12	UG/L	97
3)	C020	Vinyl Chloride	3.26	62.0	60131	23.80	UG/L	87
4)	C015	Bromomethane	3.69	94.0	56473	26.60	UG/L	89
5)	C025	Chloroethane	3.88	64.0	39899	22.99	UG/L	96
6)	C045	1,1-Dichloroethene	4.64	96.0	29701	8.45	UG/L	98
7)	C035	Acetone	4.71	43.0	23320	9.35	UG/L	100
8)	C040	Carbon Disulfide	4.99	76.0	281098	19.64	UG/L	100
9)	C030	Methylene Chloride	5.26	84.0	53069	8.02	UG/L	87
10)	C053	Trans-1,2-Dichloroethene	5.63	96.0	103983	20.00	UG/L	99
11)	C055	cis-1,2-Dichloroethene	7.14	96.0	109314	21.70	UG/L	92
12)	C050	1,1-Dichloroethane	6.24	63.0	192411	18.54	UG/L	85
13)	C060	Chloroform	7.68	83.0	187169	19.54	UG/L	96
14)	C065	1,2-Dichloroethane	8.69	62.0	116405	16.97	UG/L	100
15)	C110	2-Butanone	7.17	43.0	54919	60.48	UG/L	95
16)	CS15	D4-1,2-Dichloroethane	8.55	65.0	85367	16.96	UG/L	84
17)	*C110	1,4-Difluorobenzene	9.43	114.0	524584	50.00	UG/L	100
18)	C125	Vinyl Acetate	6.34	43.0	163205	18.02	UG/L	97
19)	C115	1,1,1-Trichloroethane	8.00	97.0	112633	17.84	UG/L	91
20)	C120	Carbon Tetrachloride	8.30	117.0	102908	17.87	UG/L	97
21)	C165	Benzene	8.67	78.0	304334	21.19	UG/L	100
22)	C150	Trichloroethene	9.95	130.0	101134	23.98	UG/L	99
23)	C140	1,2-Dichloropropane	10.40	63.0	96702	18.69	UG/L	100
24)	C130	Bromodichloromethane	11.02	83.0	130804	19.77	UG/L	79
25)	C175	2-Chloroethylvinylether	11.77	63.0	39915	13.39	UG/L	99
26)	C143	Cis-1,3-Dichloropropen	12.07	75.0	130504	19.86	UG/L	95
27)	C172	Trans-1,3-Dichloropropen	13.47	75.0	82221	15.64	UG/L	100
28)	C160	1,1,2-Trichloroethane	13.92	97.0	68000	19.79	UG/L	67
29)	C155	Dibromochloromethane	14.94	129.0	90927	20.09	UG/L	95
30)	C180	Bromoform	19.13	173.0	63130	18.52	UG/L	97
31)	*C120	D5-Chlorobenzene	16.57	117.0	367336	50.00	UG/L	100
32)	CS05	D8-Toluene	12.71	98.0	218568	20.74	UG/L	94
33)	C205	4-Methyl-2-Pentanone	12.49	43.0	87905	9.16	UG/L	86
34)	C230	Toluene	12.88	92.0	142783	20.28	UG/L	96
35)	C210	2-Hexanone	14.68	43.0	51387	9.01	UG/L	97
36)	C220	Tetrachloroethene	14.29	164.0	66762	23.11	UG/L	91
37)	C235	Chlorobenzene	16.65	112.0	171726	22.89	UG/L	75
38)	C240	Ethylbenzene	17.06	106.0	82047	21.89	UG/L	97
39)	CXXX	Xylene (p)	17.43	106.0	100626	22.22	UG/L	99
40)	CXXX	Xylenes (o)	18.61	106.0	112144	24.48	UG/L	97
41)	C245	Styrene	18.67	104.0	173224	23.65	UG/L	100
42)	C225	1,1,2,2-Tetrachloroethan	20.84	83.0	136168	18.32	UG/L	94
43)	CS10	Bromofluorobenzene (BFB)	20.26	95.0	98625	21.91	UG/L	99

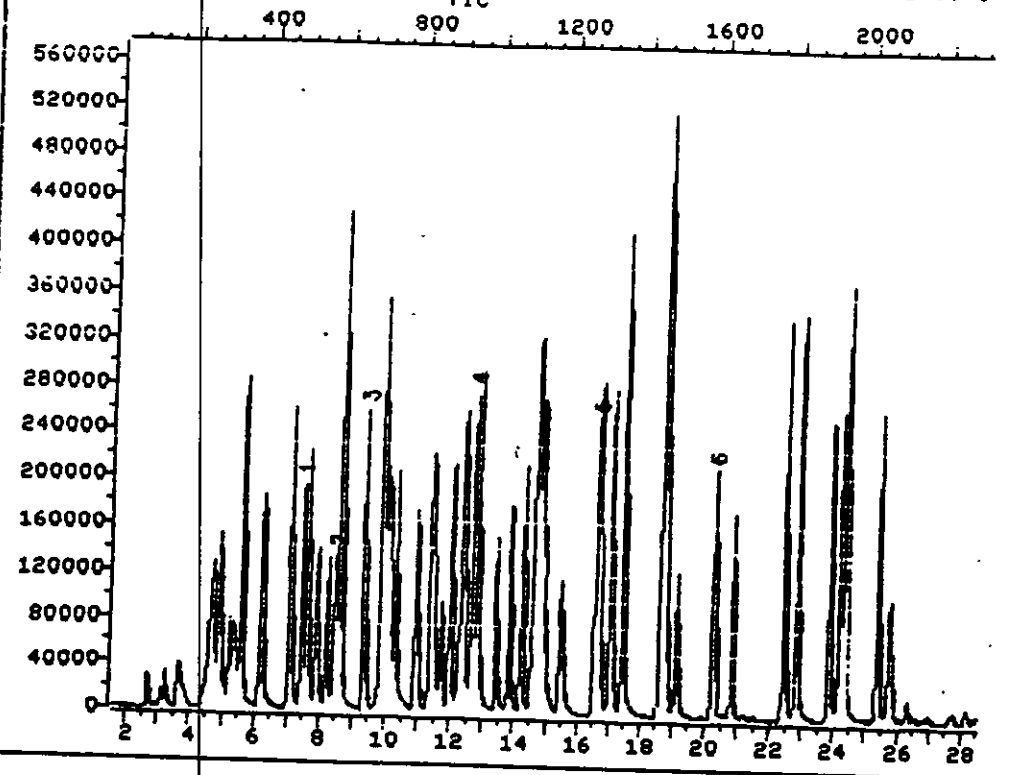
000152

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.87	146.0	158105	24.65	UG/L	100
45)	C340 Dichlorobenzene (p)	24.18	146.0	159799	24.39	UG/L	100
46)	C350 Dichlorobenzene (o)	25.41	146.0	169391	26.44	UG/L	100
47)	C250 Xylene (Total)	18.61	106.0	111069	24.28	UG/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File >B2951 35.0-300.0 amu. VSTD050 5ML V2 CH#07 5UL IS/S
TIC



Data File: >B2951::D6
Name: VSTD050 5ML
Misc: V2 CH#07 5UL IS/S

Quant Output File: ^B2951::QT

Id File: UDAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 910829 00:11

Operator ID: NORA
Quant Time: 911011 18:21
Injected at: 911011 17:45

000154

QUANT REPORT

Operator ID: NORA
 Output File: ^B2951::QT
 Data File: >B2951::D6
 Name: VSTD050 5ML
 Misc: V2 CH#07 5UL IS/S

Quant Rev: 6 Quant Time: 911011 18:21
 Injected at: 911011 17:45
 Dilution Factor: 1.00000

ID File: VOAI02::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 910829 00:11

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.44	128.0	132167	50.00	UG/L	81
2)	C010 Chloromethane	3.08	50.0	54447	26.98	UG/L	98
3)	C020 Vinyl Chloride	3.21	62.0	112846	45.99	UG/L	88
4)	C015 Bromomethane	3.62	94.0	114612	55.58	UG/L	93
5)	C025 Chloroethane	3.82	64.0	83450	49.50	UG/L	97
6)	C045 1,1-Dichloroethene	4.68	96.0	148196	43.39	UG/L	98
7)	C035 Acetone	4.65	43.0	184082	75.96	UG/L	100
8)	C040 Carbon Disulfide	4.90	76.0	658896	47.39	UG/L	100
9)	C030 Methylene Chloride	5.18	84.0	69839	10.86	UG/L	84
10)	C053 Trans-1,2-Dichloroethene	5.57	96.0	249393	49.38	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.05	96.0	274344	56.08	UG/L	94
12)	C050 1,1-Dichloroethane	6.15	63.0	480279	47.64	UG/L	85
13)	C060 Chloroform	7.58	83.0	468229	50.34	UG/L	96
14)	C065 1,2-Dichloroethane	8.60	62.0	309849	46.51	UG/L	100
15)	C110 2-Butanone	7.08	43.0	149911	169.99	UG/L	96
16)	CS15 D4-1,2-Dichloroethane	8.46	65.0	210883	43.15	UG/L	81
17)	*C110 1,4-Difluorobenzene	9.34	114.0	607975	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.25	43.0	595453	56.72	UG/L	98
19)	C115 1,1,1-Trichloroethane	7.91	97.0	274393	37.51	UG/L	91
20)	C120 Carbon Tetrachloride	8.21	117.0	253246	37.95	UG/L	97
21)	C165 Benzene	8.58	78.0	771706	46.37	UG/L	100
22)	C150 Trichloroethene	9.86	130.0	253256	51.81	UG/L	99
23)	C140 1,2-Dichloropropane	10.31	63.0	259303	43.25	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0	357676	46.65	UG/L	78
25)	C175 2-Chloroethylvinylether	11.69	63.0	128078	37.07	UG/L	93
26)	C143 Cis-1,3-Dichloropropen	12.01	75.0	397955	52.26	UG/L	95
27)	C172 Trans-1,3-Dichloropropen	13.43	75.0	267830	43.95	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.87	97.0	199810	50.16	UG/L	72
29)	C155 Dibromochloromethane	14.91	129.0	276425	52.70	UG/L	99
30)	C180 Bromoform	19.12	173.0	195648	49.51	UG/L	97
31)	*C120 D5-Chlorobenzene	16.57	117.0	454894	50.00	UG/L	100
32)	CS05 D8-Toluene	12.65	98.0	600575	46.02	UG/L	95
33)	C205 4-Methyl-2-Pentanone	12.43	43.0	260803	21.94	UG/L	84
34)	C230 Toluene	12.83	92.0	399745	45.84	UG/L	96
35)	C210 2-Hexanone	14.64	43.0	144652	20.49	UG/L	99
36)	C220 Tetrachloroethene	14.25	164.0	183139	51.18	UG/L	89
37)	C235 Chlorobenzene	16.65	112.0	474314	51.06	UG/L	74
38)	C240 Ethylbenzene	17.05	106.0	219923	47.37	UG/L	97
39)	CXXX Xylene (p)	17.43	106.0	257928	45.99	UG/L	98
40)	CXXX Xylenes (o)	18.60	106.0	276800	48.79	UG/L	93
41)	C245 Styrene	18.66	104.0	446756	49.25	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.83	83.0	388993	42.26	UG/L	93

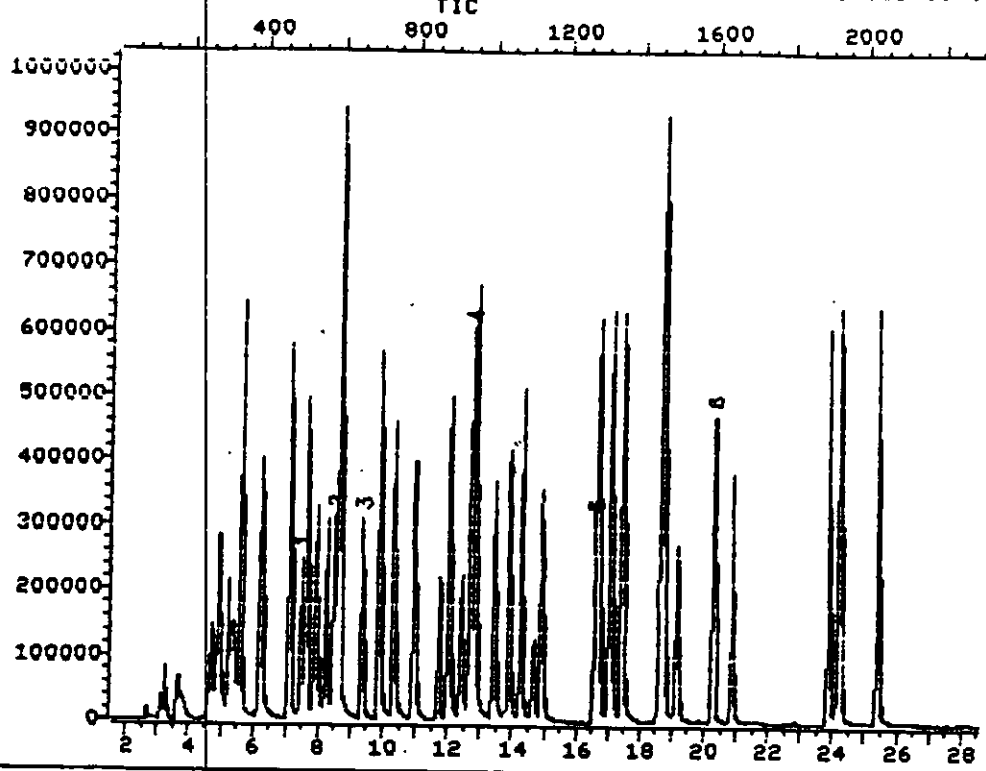
000155

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.82	146.0	396477	49.93	UG/L	100
45)	C340 Dichlorobenzene (p)	24.15	146.0	390757	48.16	UG/L	100
46)	C350 Dichlorobenzene (o)	25.38	146.0	408398	51.47	UG/L	100
47)	C250 Xylene (Total)	18.60	106.0	270797	47.79	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File ^B2955 35.0-300.0 amu. VSTD100 5ML V2 CH#13 5UL IS/S



Data File: >B2955::D6

Quant Output File: ^B2955::QT

Name: VSTD100 5ML

Misc: V2 CH#13 5UL IS/S

Id File: VQAID2::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO

Last Calibration: 911011 20:54

Operator ID: NORA

Quant Time: 911011 21:47

Injected at: 911011 21:16

000157

QUANT REPORT

Operator ID: NORA
 Output File: ^B2955::QT
 Data File: >B2955::D6
 Name: USTD100 5ML
 Misc: V2 CH#13 5UL IS/S

Quant Rev: 6 Quant Time: 911011 21:47
 Injected at: 911011 21:16
 Dilution Factor: 1.00000

ID File: VOA102::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 911011 20:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.45	128.0	162023	50.00	UG/L	80
2)	C010 Chloromethane	3.08	50.0	152111	113.95	UG/L	99
3)	C020 Vinyl Chloride	3.21	62.0	287133	103.78	UG/L	87
4)	C015 Bromomethane	3.63	94.0	198927	70.79	UG/L	92
5)	C025 Chloroethane	3.81	64.0	159399	77.91	UG/L	94
6)	C045 1,1-Dichloroethene	4.60	96.0	75232	20.71	UG/L	94
7)	C035 Acetone	4.66	43.0	99259	28.17	UG/L	100
8)	C040 Carbon Disulfide	4.92	76.0	1449057	89.70	UG/L	100
9)	C030 Methylene Chloride	5.20	84.0	190922	111.50	UG/L	88
10)	C053 Trans-1,2-Dichloroethene	5.57	96.0	578426	94.60	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.06	96.0	631526	93.89	UG/L	89
12)	C050 1,1-Dichloroethane	6.17	63.0	1064475	90.40	UG/L	90
13)	C060 Chloroform	7.60	83.0	1040575	90.64	UG/L	88
14)	C065 1,2-Dichloroethane	8.61	62.0	702437	92.46	UG/L	100
15)	C110 2-Butanone	7.10	43.0	296318	80.62	UG/L	95
16)	CS15 D4-1,2-Dichloroethane	8.47	65.0	486551	94.10	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.35	114.0	720617	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.25	43.0	1327889	94.07	UG/L	99
19)	C115 1,1,1-Trichloroethane	7.92	97.0	640995	98.54	UG/L	92
20)	C120 Carbon Tetrachloride	8.22	117.0	612243	101.98	UG/L	98
21)	C165 Benzene	8.58	78.0	1648423	90.11	UG/L	100
22)	C150 Trichloroethene	9.87	130.0	601110	100.13	UG/L	99
23)	C140 1,2-Dichloropropane	10.32	63.0	631434	102.72	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0	839058	98.96	UG/L	82
25)	C175 2-Chloroethylvinylether	11.70	63.0	341631	112.52	UG/L	97
26)	C143 Cis-1,3-Dichloropropen	12.02	75.0	974344	109.48	UG/L	94
27)	C172 Trans-1,3-Dichloropropen	13.42	75.0	644635	93.41	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.88	97.0	460975	97.32	UG/L	72
29)	C155 Dibromochloromethane	14.91	129.0	646440	98.65	UG/L	97
30)	C180 Bromoform	19.12	173.0	440022	94.87	UG/L	97
31)	*C120 D5-Chlorobenzene	16.56	117.0	536074	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0	1334719	94.29	UG/L	87
33)	C205 4-Methyl-2-Pentanone	12.42	43.0	606224	98.62	UG/L	85
34)	C230 Toluene	12.84	92.0	982597	104.29	UG/L	85
35)	C210 2-Hexanone	14.64	43.0	334809	98.20	UG/L	98
36)	C220 Tetrachloroethene	14.25	164.0	450223	104.30	UG/L	88
37)	C235 Chlorobenzene	16.64	112.0	1123494	100.50	UG/L	78
38)	C240 Ethylbenzene	17.05	106.0	518655	100.06	UG/L	97
39)	CXXX Xylene (p)	17.43	106.0	642240	105.65	UG/L	95
40)	CXXX Xylenes (o)	18.61	106.0	631530	96.80	UG/L	99
41)	C245 Styrene	18.67	104.0	1066755	101.31	UG/L	90
42)	C225 1,1,2,2-Tetrachloroethan	20.84	83.0	851411	92.87	UG/L	94
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0	626247	95.52	UG/L	81

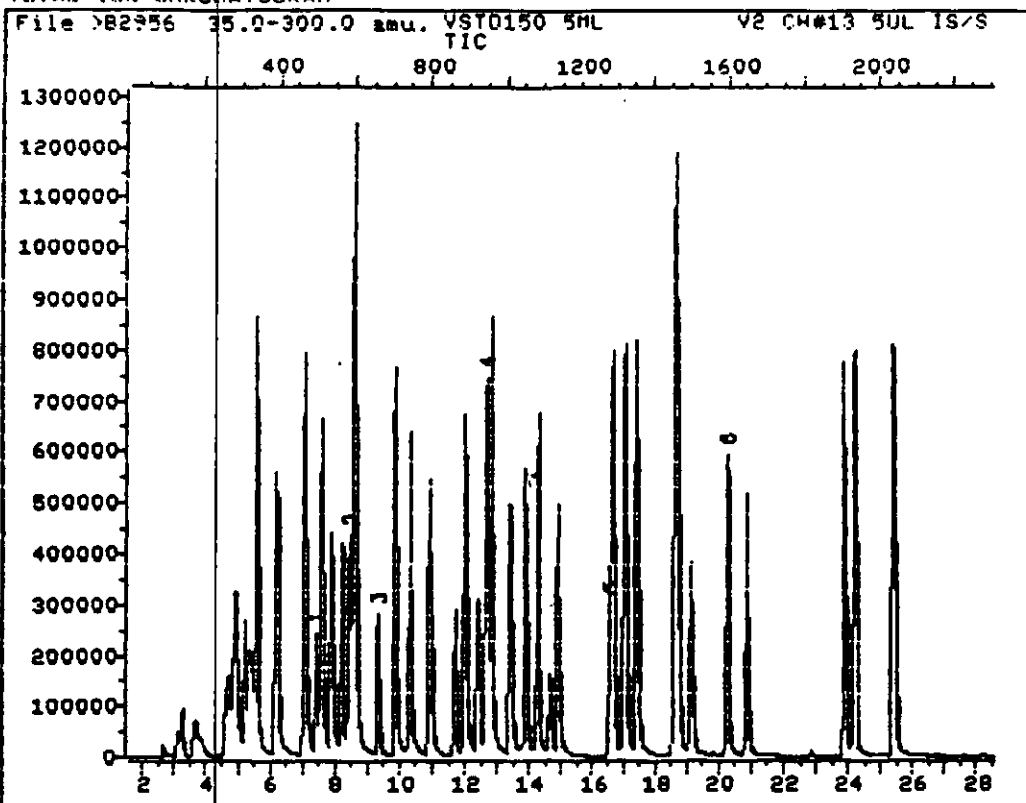
000158

Compound			R.T.	Q ion	Area	Conc	Units	q
44)	C335	Dichlorobenzene (m)	23.85	146.0	979014	104.77	UG/L	100
45)	C340	Dichlorobenzene (p)	24.17	146.0	1023402	111.12	UG/L	100
46)	C350	Dichlorobenzene (o)	25.36	146.0	1015395	105.49	UG/L	100
47)	C250	Xylene (Total)	18.61	106.0	627068	98.25	UG/L	92

* Compound is ISTD

000159

TOTAL ION CHROMATOGRAM



Data File: >B2956::D6
Name: USTD150 5ML
Misc: V2 CH#13 5UL IS/S

Quant Output File: ^B2956::QT

Id File: UOAIID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 911011 20:54

Operator ID: NORA
Quant Time: 911011 22:30
Injected at: 911011 21:59

QUANT REPORT

Operator ID: NORA
 Output File: B2956::QT
 Data File: B2956::D6
 Name: USTD150 5ML
 Misc: U2 CH#13 5UL IS/S

Quant Rev: 6 Quant Time: 911011 22:30
 Injected at: 911011 21:59
 Dilution Factor: 1.00000

ID File: UOAI02::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO
 Last Calibration: 911011 20:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.42	128.0	158267	50.00	UG/L	79
2)	C010 Chloromethane	3.10	50.0	206729	158.54	UG/L	97
3)	C020 Vinyl Chloride	3.24	62.0	378399	140.01	UG/L	88
4)	C015 Bromomethane	3.65	94.0	257677	93.87	UG/L	94
5)	C025 Chloroethane	3.85	64.0	207639	103.89	UG/L	97
6)	C045 1,1-Dichloroethene	4.58	96.0	61506	17.33	UG/L	91
7)	C035 Acetone	4.63	43.0	151366	43.97	UG/L	100
8)	C040 Carbon Disulfide	4.91	76.0	1878198	119.02	UG/L	100
9)	C030 Methylene Chloride	5.17	84.0	235766	140.96	UG/L	88
10)	C053 Trans-1,2-Dichloroethene	5.55	96.0	776099	129.94	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.03	96.0	870635	132.51	UG/L	94
12)	C050 1,1-Dichloroethane	6.14	63.0	1454347	126.44	UG/L	92
13)	C060 Chloroform	7.57	83.0	1424017	126.99	UG/L	94
14)	C065 1,2-Dichloroethane	8.59	62.0	984918	132.72	UG/L	100
15)	C110 2-Butanone	7.07	43.0	444066	123.68	UG/L	97
16)	CS15 D4-1,2-Dichloroethane	8.44	65.0	690070	136.63	UG/L	88
17)	*C110 1,4-Difluorobenzene	9.32	114.0	659180	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.23	43.0	1876894	145.36	UG/L	96
19)	C115 1,1,1-Trichloroethane	7.89	97.0	885103	148.76	UG/L	92
20)	C120 Carbon Tetrachloride	8.19	117.0	839939	152.95	UG/L	98
21)	C165 Benzene	8.56	78.0	2190746	130.92	UG/L	100
22)	C150 Trichloroethene	9.85	130.0	825140	150.25	UG/L	98
23)	C140 1,2-Dichloropropene	10.30	63.0	890473	158.37	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0	1151988	148.53	UG/L	76
25)	C175 2-Chloroethylvinylether	11.67	63.0	453930	163.44	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.99	75.0	1305254	160.33	UG/L	90
27)	C172 Trans-1,3-Dichloropropen	13.41	75.0	904824	143.33	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.86	97.0	640702	147.87	UG/L	71
29)	C155 Dibromochloromethane	14.91	129.0	896083	149.49	UG/L	93
30)	C180 Bromoform	19.14	173.0	632185	149.01	UG/L	96
31)	*C120 O5-Chlorobenzene	16.56	117.0	471247	50.00	UG/L	100
32)	CS05 O8-Toluene	12.66	98.0	1725492	138.67	UG/L	97
33)	C205 4-Methyl-2-Pentanone	12.41	43.0	846074	156.58	UG/L	85
34)	C230 Toluene	12.82	92.0	1281353	154.71	UG/L	94
35)	C210 2-Hexanone	14.64	43.0	422289	140.90	UG/L	99
36)	C220 Tetrachloroethene	14.24	164.0	595969	157.06	UG/L	88
37)	C235 Chlorobenzene	16.64	112.0	1476219	150.22	UG/L	82
38)	C240 Ethylbenzene	17.05	106.0	683199	149.94	UG/L	96
39)	CXXX Xylene (p)	17.43	106.0	854518	159.90	UG/L	95
40)	CXXX Xylenes (o)	18.61	106.0	833983	145.42	UG/L	99
41)	C245 Styrene	18.68	104.0	1338406	144.59	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.86	83.0	1192768	147.99	UG/L	98
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0	796464	138.19	UG/L	82

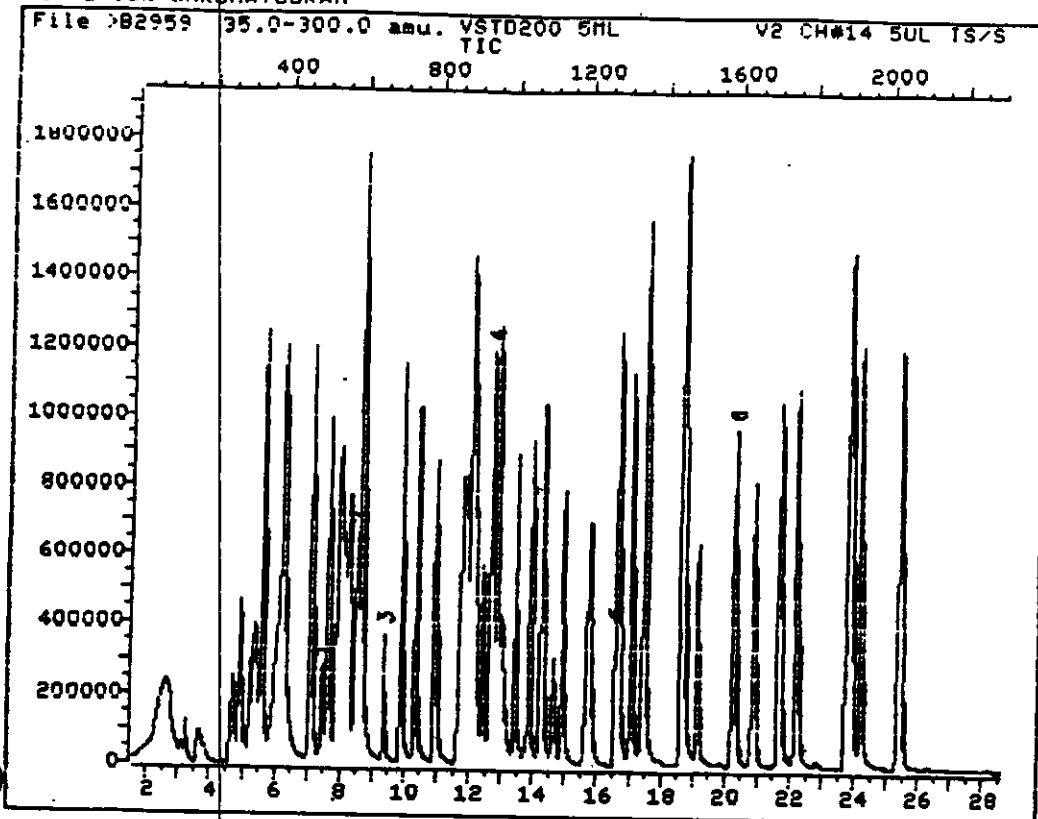
000161

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.86	146.0		1231056	149.86	UG/L	100
45)	C340 Dichlorobenzene (p)	24.18	146.0		1264477	156.18	UG/L	100
46)	C350 Dichlorobenzene (o)	25.41	146.0		1299268	153.55	UG/L	100
47)	C250 Xylene (Total)	18.61	106.0		833941	148.64	UG/L	90

* Compound is ISTD

000162

TOTAL ION CHROMATOGRAM



Data File: >B2959::D6
Name: VSTD200 5ML
Misc: V2 CH#14 5UL IS/S

Quant Output File: ^B2959::QT

Id File: UOAIID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 911011 20:54

Operator ID: NORA
Quant Time: 911012 00:54
Injected at: 911012 00:25

000163

QUANT REPORT

Operator ID: NORA
 Output File: ^B2959::QT
 Data File: >B2959::D6
 Name: USTD200 5ML
 Misc: V2 CH#14 5UL IS/S

Quant Rev: 6 Quant Time: 911012 00:54
 Injected at: 911012 00:25
 Dilution Factor: 1.00000

ID File: VOA102::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
 Last Calibration: 911011 20:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.44	128.0	179140	50.00	UG/L	82
2)	C010 Chloromethane	3.06	50.0	191336	129.64	UG/L	95
3)	C020 Vinyl Chloride	3.21	62.0	421456	137.77	UG/L	87
4)	C015 Bromomethane	3.61	94.0	284717	91.64	UG/L	92
5)	C025 Chloroethane	3.81	64.0	259177	114.57	UG/L	97
6)	C045 1,1-Dichloroethene	4.69	96.0	416520	103.68	UG/L	88
7)	C035 Acetone	4.66	43.0	183334	47.05	UG/L	100
8)	C040 Carbon Disulfide	4.90	76.0	2196104	122.95	UG/L	100
9)	C030 Methylene Chloride	5.20	84.0	278786	147.26	UG/L	89
10)	C053 Trans-1,2-Dichloroethene	5.57	96.0	1165173	172.35	UG/L	98
11)	C055 cis-1,2-Dichloroethene	7.06	96.0	1346925	181.11	UG/L	96
12)	C050 1,1-Dichloroethane	6.17	63.0	2178040	167.29	UG/L	92
13)	C060 Chloroform	7.60	83.0	2218189	174.76	UG/L	86
14)	C065 1,2-Dichloroethane	8.61	62.0	1510287	179.81	UG/L	100
15)	C110 2-Butanone	7.10	43.0	773030	190.22	UG/L	97
16)	CS15 D4-1,2-Dichloroethane	8.46	65.0	1031606	180.46	UG/L	78
17)	*C110 1,4-Difluorobenzene	9.34	114.0	842659	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.26	43.0	2468971	149.58	UG/L	85
19)	C115 1,1,1-Trichloroethane	7.92	97.0	1293781	170.10	UG/L	99
20)	C120 Carbon Tetrachloride	8.21	117.0	1263219	179.95	UG/L	98
21)	C165 Benzene	8.59	78.0	2954016	138.09	UG/L	100
22)	C150 Trichloroethene	9.86	130.0	1298161	184.92	UG/L	99
23)	C140 1,2-Dichloropropane	10.32	63.0	1446581	201.25	UG/L	100
24)	C130 Bromodichloromethane	10.94	83.0	1868945	188.50	UG/L	74
25)	C175 2-Chloroethylvinylether	11.69	63.0	989824	278.80	UG/L	88
26)	C143 Cis-1,3-Dichloropropen	12.00	75.0	2121970	203.90	UG/L	72
27)	C172 Trans-1,3-Dichloropropen	13.42	75.0	1534413	190.14	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.87	97.0	1117874	201.83	UG/L	70
29)	C155 Dibromochloromethane	14.91	129.0	1492493	194.78	UG/L	98
30)	C180 Bromoform	19.12	173.0	1097615	202.39	UG/L	92
31)	*C120 D5-Chlorobenzene	16.55	117.0	603214	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	98.0	2782230	174.68	UG/L	89
33)	C205 4-Methyl-2-Pentanone	12.42	43.0	1492776	215.82	UG/L	79
34)	C230 Toluene	12.82	92.0	2222251	209.61	UG/L	63
35)	C210 2-Hexanone	14.64	43.0	798038	208.02	UG/L	99
36)	C220 Tetrachloroethene	14.24	164.0	995502	204.96	UG/L	74
37)	C235 Chlorobenzene	16.65	112.0	2370742	188.46	UG/L	79
38)	C240 Ethylbenzene	17.05	106.0	1117386	191.58	UG/L	76
39)	CXXX Xylene (p)	17.44	106.0	1250824	182.85	UG/L	94
40)	CXXX Xylenes (o)	18.61	106.0	1260494	171.71	UG/L	94
41)	C245 Styrene	18.68	104.0	2032593	171.55	UG/L	90
42)	C225 1,1,2,2-Tetrachloroethan	20.85	83.0	1888659	183.07	UG/L	94

000164

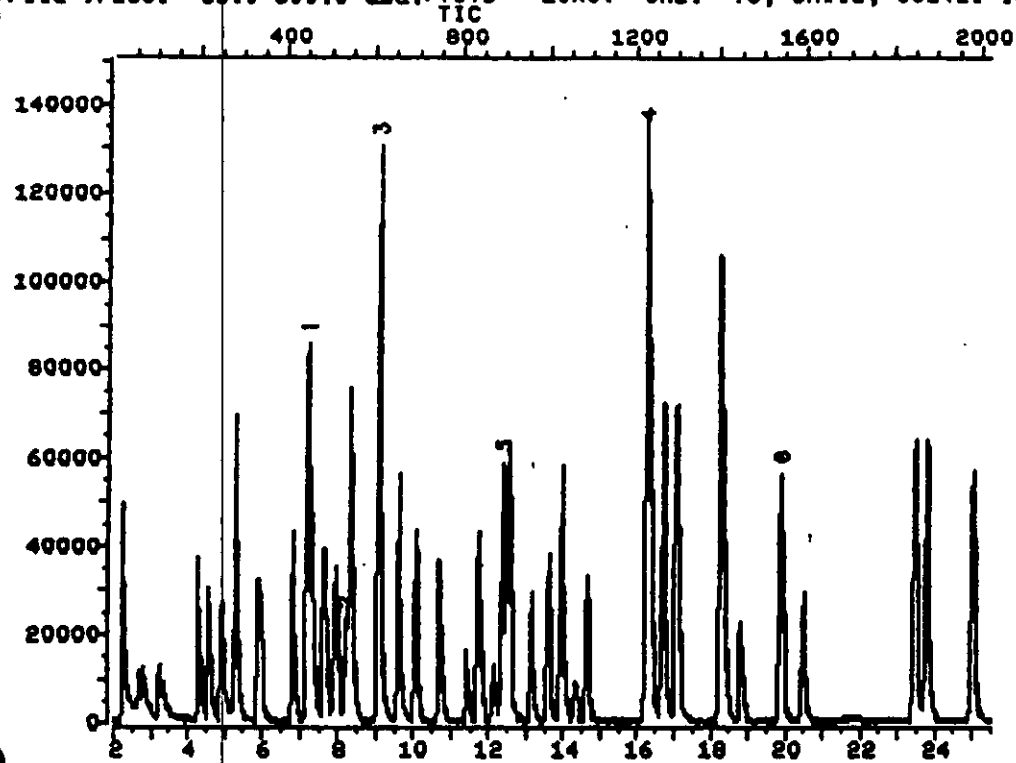
Compound		R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.81	146.0	3477500	330.72	UG/L	100
45)	C340 Dichlorobenzene (p)	24.17	146.0	1989250	191.95	UG/L	100
46)	C350 Dichlorobenzene (o)	25.39	146.0	1982800	183.06	UG/L	100
47)	C250 Xylene (Total)	18.61	106.0	1250622	174.14	UG/L	86

* Compound is ISTD

000165

TOTAL ION CHROMATOGRAM

File >F2560 35.0-300.0 amu.. VSTD 20NG. 5ML. V6, CH#02, 5UL(20 IS



Data File: >F2560::D4

Quant Output File: ^F2560::D7

Name: USTD 20NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 13:49

Injected at: 910922 13:22

QUANT REPORT

Page 1

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 13:49
 Output File: ^F2560::D7 Injected at: 910922 13:22
 Data File: >F2560::D4 Dilution Factor: 1.00000
 Name: USTD 20NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.20	128.0	66164	50.00	UG/L	64
2)	C010 Chloromethane	2.65	50.0	36001	20.90	UG/L	99
3)	C020 Vinyl Chloride	2.79	62.0	37017	21.21	UG/L	87
4)	C015 Bromomethane	3.19	94.0	35029	24.07	UG/L	92
5)	C025 Chloroethane	3.32	64.0	22151M	23.15	UG/L	96
6)	C045 1,1-Dichloroethane	4.29	96.0	42246	22.43	UG/L	91
7)	C035 Acetone	4.36	43.0	7226	28.69	UG/L	30
8)	C040 Carbon Disulfide	4.57	76.0	120197	22.71	UG/L	100
9)	C030 Methylene Chloride	4.92	84.0	50135	22.91	UG/L	91
10)	CXXX Tert-butyl alcohol	5.07	59.0	1147M	12.07	UG/L	
11)	C053 Trans-1,2-dichloroethane	5.29	96.0	51105	22.59	UG/L	95
12)	C055 Cis-1,2-dichloroethane	6.80	96.0	55446	22.80	UG/L	95
13)	CXXX Methyl tert-butyl ether	5.28	73.0	76693	20.61	UG/L	90
14)	C050 1,1-Dichloroethane	5.88	63.0	96940	23.46	UG/L	100
15)	C060 Chloroform	7.33	83.0	111460	22.77	UG/L	94
16)	C065 1,2-Dichloroethane	8.37	62.0	63812	23.18	UG/L	100
17)	C110 2-Butanone	6.83	72.0	2791	18.63	UG/L	90
18)	CS15 D4-1,2-dichloroethane	8.21	65.0	50708	22.23	UG/L	87
19)	*C110 1,4-Difluorobenzene	9.08	114.0	362515	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.96	43.0	78027	17.83	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.67	97.0	88029	21.72	UG/L	97
22)	C120 Carbon Tetrachloride	7.96	117.0	74521	21.31	UG/L	98
23)	C165 Benzene	8.32	78.0	161518	22.98	UG/L	100
24)	C150 Trichloroethane	9.59	130.0	65720	22.79	UG/L	95
25)	C140 1,2-Dichloropropene	10.08	63.0	61152	20.89	UG/L	100
26)	C130 Bromodichloromethane	10.70	83.0	93377	22.16	UG/L	91
27)	C175 2-Chloroethylvinylether	11.41	63.0	28001	20.80	UG/L	96
28)	C143 Cis-1,3-Dichloropropene	11.73	75.0	91930	22.30	UG/L	94
29)	C172 Trans-1,3-dichloropropene	13.13	75.0	63203	19.51	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.60	97.0	47273	21.36	UG/L	75
31)	C155 Dibromochloromethane	14.64	129.0	69711	20.36	UG/L	98
32)	C180 Bromoform	18.81	173.0	38349	18.68	UG/L	99
33)	*C120 D5-Chlorobenzene	16.24	117.0	292082	50.00	UG/L	100
34)	CS05 D8-Toluene	12.36	98.0	153965	21.03	UG/L	93
35)	C205 4-Methyl-2-pentanone	12.14	43.0	42184	22.67	UG/L	90
36)	C230 Toluene	12.53	92.0	105957	21.29	UG/L	80
37)	C210 2-Hexanone	14.33	43.0	28149	19.84	UG/L	97
38)	C220 Tetrachloroethane	13.94	164.0	54447	21.32	UG/L	96
39)	C235 Chlorobenzene	16.32	112.0	129024	20.92	UG/L	75
40)	C240 Ethylbenzene	16.70	106.0	64766	21.04	UG/L	94
41)	CXXX Xylenes (p)	17.08	106.0	85811	21.55	UG/L	95
42)	CXXX Xylenes (o)	18.26	106.0	77264	21.35	UG/L	99

000167

QUANT REPORT

Page 2

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 13:49
 Output File: ^F2560::D7 Injected at: 910922 13:22
 Data File: >F2560::D4 Dilution Factor: 1.00000
 Name: VSTD 20NG. 5ML. Instrument ID: V6
 Misc: V6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

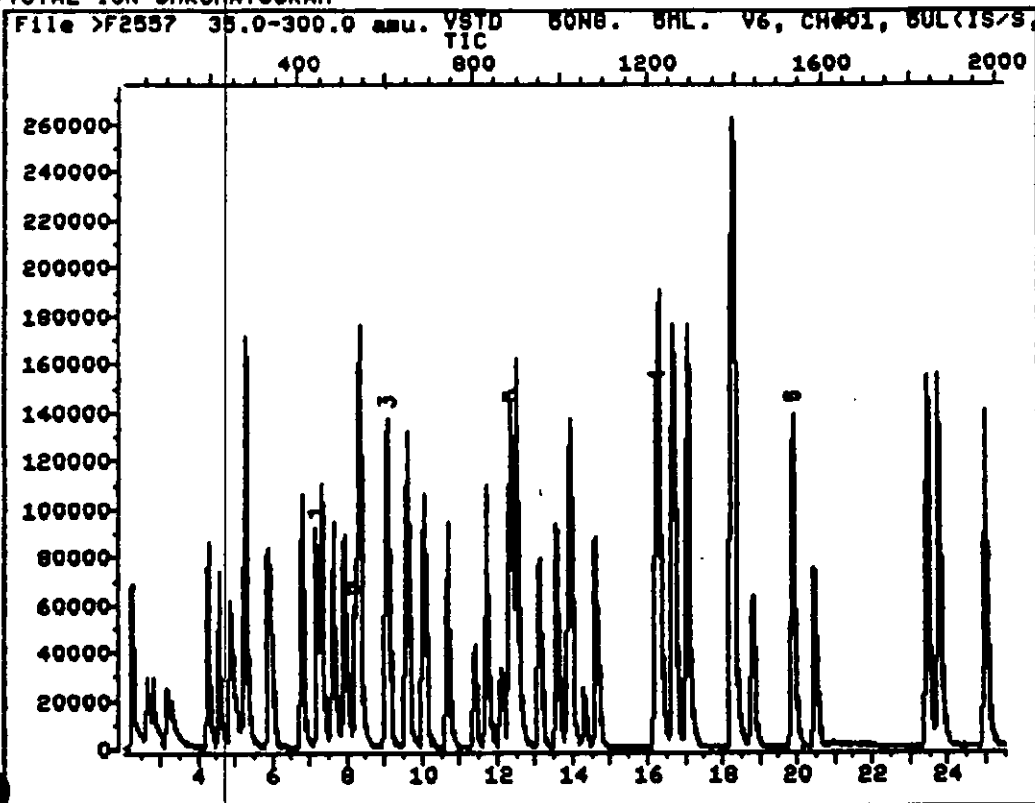
ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	71037	20.06	UG/L	90
45)	CS10 Bromofluorobenzene	19.90	95.0	89608	20.84	UG/L	72
46)	C335 Dichlorobenzene (m)	23.46	146.0	112165	20.58	UG/L	100
47)	C340 Dichlorobenzene (p)	23.78	146.0	104930	21.20	UG/L	100
48)	C350 Dichlorobenzene (o)	25.01	146.0	106197	21.34	UG/L	100
49)	C250 Xylenes (total)	18.26	106.0	75196	20.79	UG/L	91

* Compound is ISTD

000168

TOTAL ION CHROMATOGRAM



Data File: >F2557::D4

Quant Output File: ^F2557::D7

Name: USTD 50NG. 5ML.

Instrument ID: U6

Misc: U6, CH#01, 5UL(IS/S, MTBE, TBA), STD=25UL/100ML HSL,A

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910918 21:59

Operator ID: KERYLYNN

Quant Time : 910922 11:37

Injected at: 910922 11:10

000169

QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 11:37
 Output File: ^F2557::D7 Injected at: 910922 11:10
 Data File: >F2557::D4 Dilution Factor: 1.00000
 Name: USTD 50NG. 5ML. Instrument ID: U6
 Misc: U6, CH#01, 5UL(IS/S, MTBE, TBA), STD=25UL/100ML HSL,A

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910918 21:59

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.17	128.0	72616	50.00	UG/L	70
2)	C010 Chloromethane	2.65	50.0	94512	74.65	UG/L	99
3)	C020 Vinyl Chloride	2.78	62.0	95768	61.62	UG/L	93
4)	C015 Bromomethane	3.16	94.0	79846	49.64	UG/L	94
5)	C025 Chloroethane	3.29	64.0	52513M	50.84	UG/L	98
6)	C045 1,1-Dichloroethene	4.27	96.0	103350	50.18	UG/L	84
7)	C035 Acetone	4.34	43.0	13823	48.47	UG/L	23
8)	C040 Carbon Disulfide	4.56	76.0	290422	49.86	UG/L	100
9)	C030 Methylene Chloride	4.90	84.0	120111	49.96	UG/L	91
10)	CXXX Tert-butyl alcohol	5.06	59.0	5214M	51.56	UG/L	
11)	C053 Trans-1,2-dichloroethene	5.27	96.0	124123	49.89	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.79	96.0	133461	52.07	UG/L	97
13)	CXXX Methyl tert-butyl ether	5.27	73.0	204169	47.71	UG/L	87
14)	C050 1,1-Dichloroethane	5.88	63.0	226786	49.15	UG/L	100
15)	C060 Chloroform	7.31	83.0	268649	49.77	UG/L	98
16)	C065 1,2-Dichloroethane	8.34	62.0	151088	49.69	UG/L	100
17)	C110 2-Butanone	6.81	72.0	8219	49.63	UG/L	91
18)	CS15 D4-1,2-dichloroethane	8.21	65.0	125151	55.05	UG/L	87
19)	*CI10 1,4-Difluorobenzene	9.06	114.0	389063	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0	234819	166.62	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.64	97.0	217439	49.11	UG/L	91
22)	C120 Carbon Tetrachloride	7.93	117.0	187662	45.28	UG/L	96
23)	C165 Benzene	8.31	78.0	377123	47.20	UG/L	100
24)	C150 Trichloroethene	9.58	130.0	154733	45.96	UG/L	99
25)	C140 1,2-Dichloropropane	10.05	63.0	157115	47.90	UG/L	100
26)	C130 Bromodichloromethane	10.66	83.0	226079	48.59	UG/L	74
27)	C175 2-Chloroethylvinylether	11.39	63.0	72247	51.23	UG/L	98
28)	C143 Cis-1,3-Dichloropropene	11.72	75.0	234502	51.26	UG/L	93
29)	C172 Trans-1,3-dichloropropene	13.12	75.0	159892	48.88	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.57	97.0	118735	50.42	UG/L	72
31)	C155 Dibromochloromethane	14.62	129.0	183774	50.15	UG/L	96
32)	C180 Bromoform	18.81	173.0	110158	51.82	UG/L	97
33)	*CI20 D5-Chlorobenzene	16.23	117.0	301138	50.00	UG/L	100
34)	CS05 D8-Toluene	12.34	98.0	377478	50.56	UG/L	95
35)	C205 4-Methyl-2-pentanone	12.11	43.0	95924	41.87	UG/L	82
36)	C230 Toluene	12.52	92.0	256595	48.56	UG/L	91
37)	C210 2-Hexanone	14.31	43.0	73156	51.18	UG/L	97
38)	C220 Tetrachloroethene	13.92	164.0	131665	47.47	UG/L	93
39)	C235 Chlorobenzene	16.31	112.0	317994	47.91	UG/L	75
40)	C240 Ethylbenzene	16.68	106.0	158712	49.37	UG/L	96
41)	CXXX Xylenes (p)	17.07	106.0	205258M	55.82	UG/L	97

0001706

QUANT REPORT

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Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 11:37
 Output File: ^F2557::D7 Injected at: 910922 11:10
 Data File: >F2557::D4 Dilution Factor: 1.00000
 Name: USTD 50NG. 5ML. Instrument ID: U6
 Misc: U6, CH#01, 5UL(IS/S, MTBE, TBA), STD=25UL/100ML HSL,A

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910918 21:59

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	182548	53.82	UG/L	96
45)	CS10 Bromofluorobenzene	19.88	95.0	221701	53.12	UG/L	76
46)	C335 Dichlorobenzene (m)	23.44	146.0	280976	60.57	UG/L	100
47)	C340 Dichlorobenzene (p)	23.77	146.0	255152	59.38	UG/L	100
48)	C350 Dichlorobenzene (o)	25.00	146.0	256534	56.04	UG/L	100
49)	C250 Xylenes (total)	18.25	106.0	186423	50.92	UG/L	94

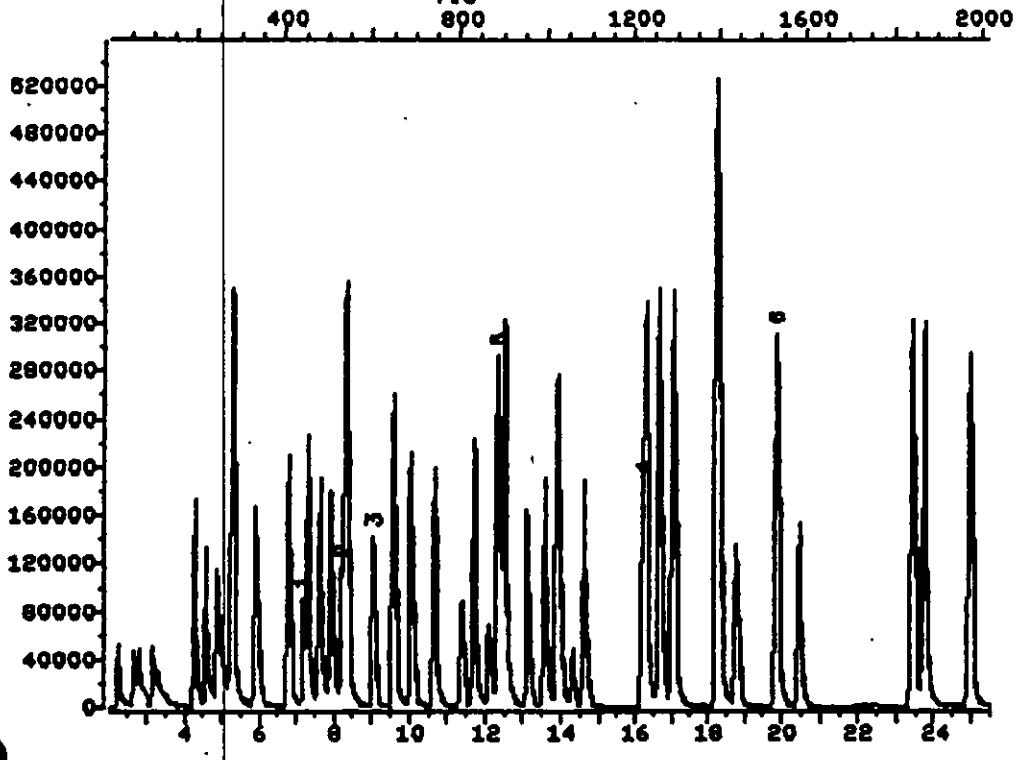
* Compound is ISTD

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TOTAL ION CHROMATOGRAM

File >F2561 35.0-300.0 amu. VSTD 100NG. 5ML. V6, CH#02, 5UL(100IS

TIC



Data File: >F2561::D4.

Quant Output File: ^F2561::D7

Name: USTD 100NG. 5ML.

Instrument ID: V6

Misc: V6, CH#02, 5UL(100IS/S), STD=25UL/ 50ML HSL,A,B+ MTBE

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 14:24

Injected at: 910922 13:57

QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 14:24
 Output File: F2561::D7 Injected at: 910922 13:57
 Data File: >F2561::D4 Dilution Factor: 1.00000
 Name: USTD 100NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(100IS/S), STD-25UL/ 50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.17	128.0	70645	50.00	UG/L	71
2)	C010 Chloromethane	2.66	50.0	174253	94.76	UG/L	97
3)	C020 Vinyl Chloride	2.80	62.0	179744	96.46	UG/L	87
4)	C015 Bromomethane	3.18	94.0	143619	92.44	UG/L	97
5)	C025 Chloroethane	3.29	64.0	92542M	90.57	UG/L	97
6)	C045 1,1-Dichloroethene	4.27	96.0	198396	98.66	UG/L	97
7)	C035 Acetone	4.35	43.0	28415	105.65	UG/L	19
8)	C040 Carbon Disulfide	4.56	76.0	600925	106.34	UG/L	100
9)	C030 Methylene Chloride	4.90	84.0	240774	103.03	UG/L	89
10)	CXXX Tert-butyl alcohol	5.10	59.0	11539	113.74	UG/L	54
11)	C053 Trans-1,2-dichloroethene	5.27	96.0	247144	102.33	UG/L	91
12)	C055 Cis-1,2-dichloroethene	6.79	96.0	272101	104.78	UG/L	88
13)	CXXX Methyl tert-butyl ether	5.28	73.0	448446	112.89	UG/L	88
14)	C050 1,1-Dichloroethane	5.88	63.0	459872	104.22	UG/L	100
15)	C060 Chloroform	7.31	83.0	542393	103.76	UG/L	99
16)	C065 1,2-Dichloroethane	8.35	62.0	316160	107.55	UG/L	100
17)	C110 2-Butanone	6.80	72.0	16990	106.24	UG/L	90
18)	CS15 D4-1,2-dichloroethane	8.20	65.0	246549	101.25	UG/L	88
19)	*C110 1,4-Difluorobenzene	9.05	114.0	394127	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0	419012	88.07	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.63	97.0	438774	99.60	UG/L	91
22)	C120 Carbon Tetrachloride	7.93	117.0	375523	98.77	UG/L	94
23)	C165 Benzene	8.30	78.0	763423	99.92	UG/L	100
24)	C150 Trichloroethene	9.59	130.0	323845	103.30	UG/L	88
25)	C140 1,2-Dichloropropane	10.05	63.0	316223	99.34	UG/L	100
26)	C130 Bromodichloromethane	10.66	83.0	483261	105.51	UG/L	82
27)	C175 2-Chloroethylvinylether	11.39	63.0	146485	100.08	UG/L	97
28)	C143 Cis-1,3-Dichloropropene	11.70	75.0	494607	110.35	UG/L	97
29)	C172 Trans-1,3-dichloropropene	13.11	75.0	336392	95.53	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.57	97.0	240907	100.14	UG/L	79
31)	C155 Dibromochloromethane	14.60	129.0	397912	106.87	UG/L	94
32)	C180 Bromoform	18.77	173.0	237517	106.42	UG/L	94
33)	*C120 D5-Chlorobenzene	16.22	117.0	333225	50.00	UG/L	100
34)	CS05 D8-Toluene	12.35	98.0	767265	91.84	UG/L	94
35)	C205 4-Methyl-2-pentanone	12.10	43.0	207706	97.84	UG/L	86
36)	C230 Toluene	12.50	92.0	518033	91.22	UG/L	89
37)	C210 2-Hexanone	14.31	43.0	143237	88.47	UG/L	98
38)	C220 Tetrachloroethene	13.90	164.0	270796	92.93	UG/L	93
39)	C235 Chlorobenzene	16.30	112.0	653477	92.86	UG/L	70
40)	C240 Ethylbenzene	16.67	106.0	311198	88.60	UG/L	99
41)	CXXX Xylenes (p)	17.04	106.0	397865M	87.59	UG/L	99

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QUANT REPORT

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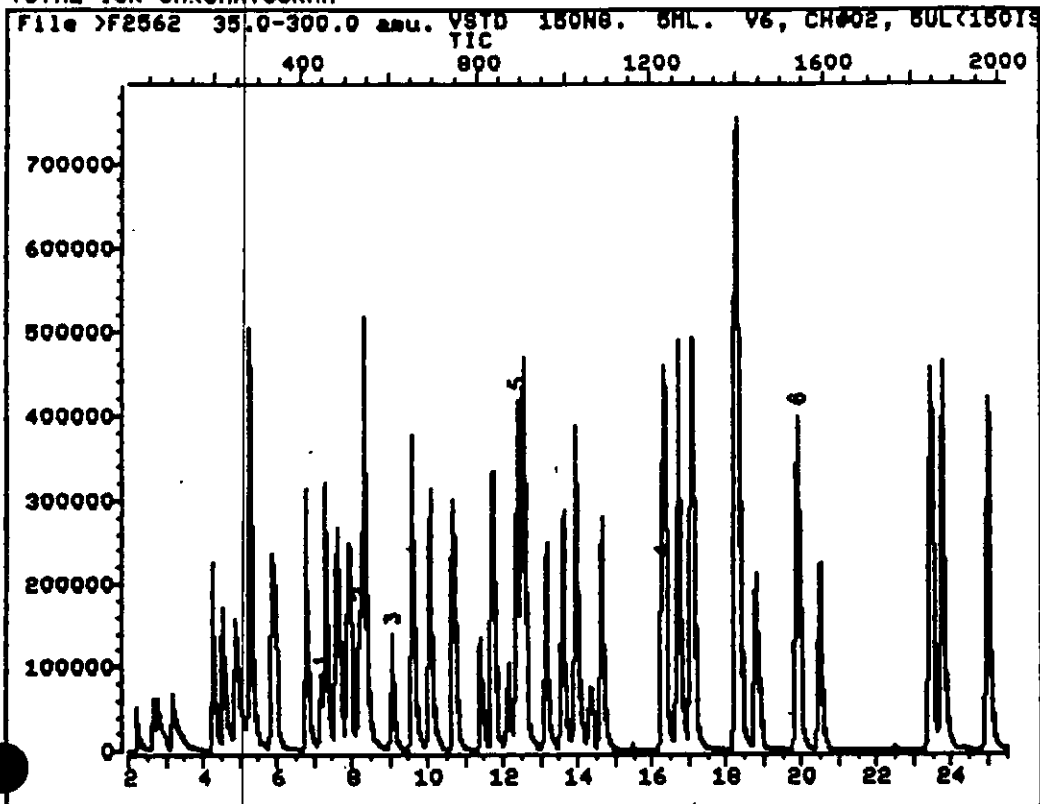
Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 14:24
 Output File: F2561::D7 Injected at: 910922 13:57
 Data File: F2561::D4 Dilution Factor: 1.00000
 Name: USTD 100NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(100IS/S), STD=25UL/ 50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.45	83.0	369800	91.54	UG/L	95
45)	CS10 Bromofluorobenzene	19.86	95.0	494842	100.85	UG/L	67
46)	C335 Dichlorobenzene (m)	23.42	146.0	572130	92.01	UG/L	100
47)	C340 Dichlorobenzene (p)	23.76	146.0	526188	93.18	UG/L	100
48)	C350 Dichlorobenzene (o)	24.97	146.0	526619	92.76	UG/L	100
49)	C250 Xylenes (total)	18.24	106.0	371954	90.15	UG/L	93

Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F2562::D4

Quant Output File: ^F2562::D7

Name: USTD 150NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 15:02

Injected at: 910922 14:35

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QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:02
 Output File: F2562::D7 Injected at: 910922 14:35
 Data File: F2562::D4 Dilution Factor: 1.00000
 Name: USTD 150NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.19	128.0	71409	50.00	UG/L	65
2)	C010 Chloromethane	2.65	50.0	245105	131.86	UG/L	98
3)	C020 Vinyl Chloride	2.78	62.0	240961	127.93	UG/L	85
4)	C015 Bromomethane	3.15	94.0	198283M	126.26	UG/L	91
5)	C025 Chloroethane	3.28	64.0	117468M	113.74	UG/L	94
6)	C045 1,1-Dichloroethene	4.26	96.0	263121	129.45	UG/L	89
7)	C035 Acetone	4.34	43.0	41564	152.88	UG/L	14
8)	C040 Carbon Disulfide	4.55	76.0	840310	147.12	UG/L	100
9)	C030 Methylene Chloride	4.89	84.0	350805	148.50	UG/L	92
10)	CXXX Tert-butyl alcohol	5.10	59.0	17361M	169.30	UG/L	89
11)	C053 Trans-1,2-dichloroethene	5.26	96.0	348218	142.64	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.78	96.0	394246	150.20	UG/L	99
13)	CXXX Methyl tert-butyl ether	5.29	73.0	680426	169.45	UG/L	88
14)	C050 1,1-Dichloroethane	5.87	63.0	663016	148.65	UG/L	100
15)	C060 Chloroform	7.32	83.0	802553	151.89	UG/L	97
16)	C065 1,2-Dichloroethane	8.34	62.0	447415	150.57	UG/L	100
17)	C110 2-Butanone	6.83	72.0	23274	143.98	UG/L	96
18)	CS15 D4-1,2-dichloroethane	8.20	65.0	360514	146.47	UG/L	90
19)	*CI10 1,4-Difluorobenzene	9.05	114.0	377988	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.95	43.0	602069	131.95	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.64	97.0	611378	144.71	UG/L	96
22)	C120 Carbon Tetrachloride	7.93	117.0	516812	141.73	UG/L	99
23)	C165 Benzene	8.31	78.0	1126805	153.77	UG/L	100
24)	C150 Trichloroethane	9.58	130.0	459944	152.98	UG/L	99
25)	C140 1,2-Dichloropropane	10.04	63.0	459419	150.49	UG/L	100
26)	C130 Bromodichloromethane	10.67	83.0	719287	163.74	UG/L	79
27)	C175 2-Chloroethylvinylether	11.40	63.0	220430	157.02	UG/L	99
28)	C143 Cis-1,3-Dichloropropene	11.72	75.0	739104	171.94	UG/L	98
29)	C172 Trans-1,3-dichloropropene	13.12	75.0	511852	151.57	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.59	97.0	367882	159.46	UG/L	78
31)	C155 Dibromochloromethane	14.64	129.0	591556	165.66	UG/L	98
32)	C180 Bromoform	18.81	173.0	374345	174.89	UG/L	94
33)	*CI20 D5-Chlorobenzene	16.26	117.0	289223	50.00	UG/L	100
34)	CS05 D8-Toluene	12.37	98.0	1080178	148.97	UG/L	94
35)	C205 4-Methyl-2-pentanone	12.12	43.0	307252	166.75	UG/L	89
36)	C230 Toluene	12.52	92.0	745978	151.35	UG/L	90
37)	C210 2-Hexanone	14.33	43.0	221742	157.80	UG/L	96
38)	C220 Tetrachloroethene	13.94	164.0	375691	148.55	UG/L	92
39)	C235 Chlorobenzene	16.33	112.0	947878	155.18	UG/L	69
40)	C240 Ethylbenzene	16.70	106.0	446295	146.39	UG/L	95
41)	CXXX Xylene (a)	17.09	106.0	530855	134.64	UG/L	95

QUANT REPORT

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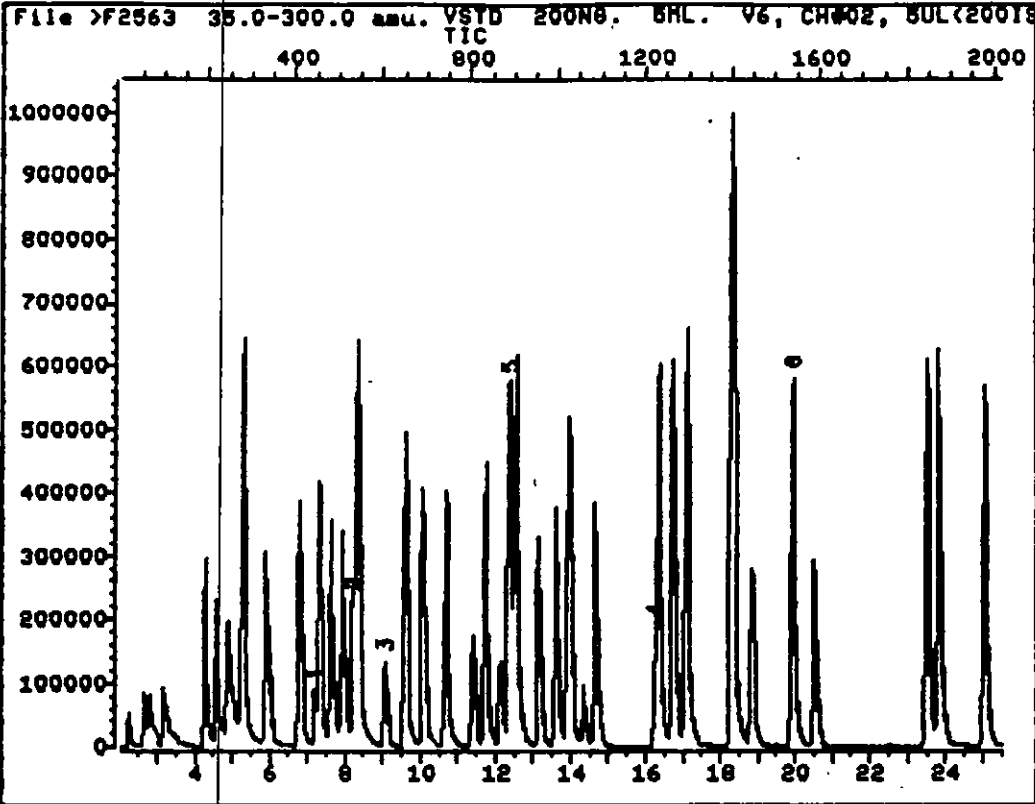
Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:02
 Output File: F2562::D7 Injected at: 910922 14:35
 Data File: F2562::D4 Dilution Factor: 1.00000
 Name: USTD 150NG. 5ML. Instrument ID: U6
 Misc: U6, CH#02, 5UL(150IS/S), STD=37.5UL/50ML HSL,A,B+ MTBE

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	548216	156.34	UG/L	84
45)	CS10 Bromofluorobenzene	19.90	95.0	626399	147.09	UG/L	71
46)	C335 Dichlorobenzene (m)	23.45	146.0	809504	149.99	UG/L	100
47)	C340 Dichlorobenzene (p)	23.77	146.0	752370	153.51	UG/L	100
48)	C350 Dichlorobenzene (o)	24.99	146.0	746636	151.52	UG/L	100
49)	C250 Xylenes (total)	18.26	106.0	520527	145.36	UG/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F2563::D4

Quant Output File: ^F2563::D7

Name: USTD 200NG. 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 910922 11:10

Operator ID: KERYLYNN

Quant Time : 910922 15:57

Injected at: 910922 15:30

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QUANT REPORT

Operator ID: KERYLYNN
 Output File: ^F2563::D7
 Data File: >F2563::D4
 Name: USTD 200NG. 5ML.
 Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

Quant Rev: 7
 Quant Time: 910922 15:57
 Injected at: 910922 15:30
 Dilution Factor: 1.00000
 Instrument ID: U6

ID File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
 Last Calibration: 910814 09:37
 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.19	128.0		69596	50.00	UG/L	72
2)	C010 Chloromethane	2.66	50.0		330885	182.65	UG/L	98
3)	C020 Vinyl Chloride	2.80	62.0		326977	178.12	UG/L	88
4)	C015 Bromomethane	3.18	94.0		253347	165.53	UG/L	96
5)	C025 Chloroethane	3.29	64.0		137303M	136.41	UG/L	93
6)	C045 1,1-Dichloroethene	4.26	96.0		357003	180.21	UG/L	89
7)	C035 Acetone	4.36	43.0		54993	207.55	UG/L	25
8)	C040 Carbon Disulfide	4.56	76.0		1131014	203.17	UG/L	100
9)	C030 Methylene Chloride	4.90	84.0		453720	197.07	UG/L	78
10)	CXXX Tert-butyl alcohol	5.13	59.0		12869	128.76	UG/L	70
11)	C053 Trans-1,2-dichloroethene	5.27	96.0		451171	189.63	UG/L	91
12)	C055 Cis-1,2-dichloroethene	6.79	96.0		531114	207.61	UG/L	94
13)	CXXX Methyl tert-butyl ether	5.31	73.0		880513	224.99	UG/L	87
14)	C050 1,1-Dichloroethane	5.89	63.0		866766	199.39	UG/L	100
15)	C060 Chloroform	7.33	83.0		1055076	204.89	UG/L	96
16)	C065 1,2-Dichloroethane	8.37	62.0		566691	195.67	UG/L	100
17)	C110 2-Butanone	6.83	72.0		29892	189.74	UG/L	89
18)	CS15 D4-1,2-dichloroethane	8.23	65.0		481320	200.64	UG/L	92
19)	*CI10 1,4-Difluorobenzene	9.07	114.0		375720	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.96	43.0		732065	161.41	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.65	97.0		809612	192.78	UG/L	97
22)	C120 Carbon Tetrachloride	7.95	117.0		703159	194.00	UG/L	99
23)	C165 Benzene	8.32	78.0		1443731	198.21	UG/L	100
24)	C150 Trichloroethene	9.62	130.0		611194	204.51	UG/L	91
25)	C140 1,2-Dichloropropene	10.07	63.0		605483	199.53	UG/L	100
26)	C130 Bromodichloromethane	10.69	83.0		960226	219.91	UG/L	79
27)	C175 2-Chloroethylvinylether	11.41	63.0		285259	204.43	UG/L	96
28)	C143 Cis-1,3-Dichloropropene	11.74	75.0		1010029	236.38	UG/L	95
29)	C172 Trans-1,3-dichloropropene	13.14	75.0		684649	203.96	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.61	97.0		476300	207.70	UG/L	80
31)	C155 Dibromochloromethane	14.64	129.0		789823	222.52	UG/L	95
32)	C180 Bromoform	18.85	173.0		500712	235.34	UG/L	98
33)	*CI20 O5-Chlorobenzene	16.26	117.0		311099	50.00	UG/L	100
34)	CS05 O8-Toluene	12.37	98.0		1568348	201.09	UG/L	96
35)	C205 4-Methyl-2-pentanone	12.16	43.0		389618	196.58	UG/L	86
36)	C230 Toluene	12.54	92.0		990574	186.84	UG/L	89
37)	C210 2-Hexanone	14.35	43.0		280453	185.54	UG/L	96
38)	C220 Tetrachloroethene	13.94	164.0		506318	186.12	UG/L	93
39)	C235 Chlorobenzene	16.34	112.0		1304165	198.50	UG/L	70
40)	C240 Ethylbenzene	16.72	106.0		601155	183.32	UG/L	92
41)	CXXX Volatiles (n)	17.10	106.0		761941M	179.66	UG/L	99

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QUANT REPORT

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 910922 15:57
Output File: F2563::D7 Injected at: 910922 15:30
Data File: F2563::D4 Dilution Factor: 1.00000
Name: USTD 200NG. 5ML. Instrument ID: U6
Misc: U6, CH#02, 5UL(200IS/S), STD=50UL/50ML HSL,A,B+ MTBE,

ID File: MOBID6::MT
Title: HSL VOLATILES: 75m' x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.53	83.0	722312	191.51	UG/L	96
45)	CS10 Bromofluorobenzene	19.94	95.0	921157	201.10	UG/L	72
46)	C335 Dichlorobenzene (m)	23.50	146.0	1109250	191.07	UG/L	100
47)	C340 Dichlorobenzene (p)	23.83	146.0	1018106	193.12	UG/L	100
48)	C350 Dichlorobenzene (o)	25.05	146.0	1029257	194.19	UG/L	100
49)	C250 Xylenes (total)	18.29	106.0	723402	187.81	UG/L	92

Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Instrument ID: V6 Calibration date: 10/09/91 Time: 1028
 Lab File ID: F2827 Init. Calib. Date(s): 09/22/91 09/22/91
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	# 1.246	1.324	-6.3 #
Bromomethane	1.055	1.216	-15.3
Vinyl Chloride	* 1.258	1.350	-7.3 *
Chloroethane	0.651	0.502	22.9
Methylene Chloride	1.704	1.800	-5.6
Acetone	0.211	0.184	12.8
Carbon Disulfide	4.156	4.435	-6.7
1,1-Dichloroethene	* 1.387	1.507	-8.7 *
1,1-Dichloroethane	# 3.250	3.533	-8.7 #
1,2-Dichloroethene (total)	1.727	1.844	-6.8
Chloroform	* 3.857	3.791	1.7 *
1,2-Dichloroethane	2.171	2.174	-0.1
2-Butanone	0.111	0.109	1.8
1,1,1-Trichloroethane	0.560	0.598	-6.8
Carbon Tetrachloride	0.479	0.490	-2.3
Vinyl Acetate	0.538	0.605	-12.4
Bromodichloromethane	0.622	0.601	3.4
1,2-Dichloropropane	* 0.407	0.406	0.2 *
cis-1,3-Dichloropropene	0.603	0.583	3.3
Trichloroethene	0.415	0.426	-2.7
Dibromochloromethane	0.501	0.468	6.6
1,1,2-Trichloroethane	0.316	0.295	6.6
Benzene	1.001	0.991	1.0
trans-1,3-Dichloropropene	0.470	0.448	4.7
2-Chloroethylvinylether	0.190	0.178	6.3
Bromoform	# 0.302	0.263	12.9 #
4-Methyl-2-Pentanone	0.332	0.324	2.4
2-Hexanone	0.236	0.213	9.7
Tetrachloroethene	0.430	0.468	-8.8
1,1,2,2-Tetrachloroethane	# 0.596	0.574	3.7 #
Toluene	* 0.839	0.906	-8.0 *
Chlorobenzene	# 1.057	1.088	-2.9 #
Ethylbenzene	* 0.509	0.547	-7.5 *
Styrene	1.098	1.116	-1.6
Xylene (total)	0.601	0.637	-6.0
Toluene-d8	1.246	1.300	-4.3
Bromofluorobenzene	0.742	0.715	3.6
1,2-Dichloroethane-d4	1.759	1.571	10.7

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Instrument ID: V2 Calibration date: 10/10/91 Time: 0933
 Lab File ID: B2930 Init. Calib. Date(s): 10/09/91 10/09/91
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	# 0.976	0.762	21.9 #
Bromomethane	0.635	0.571	10.1
Vinyl Chloride	* 1.114	0.983	11.8 *
Chloroethane	0.504	0.446	11.5
Methylene Chloride	2.040	0.860	57.8
Acetone	0.472	0.387	18.0
Carbon Disulfide	4.621	3.973	14.0
1,1-Dichloroethene	* 0.990	0.814	17.8 *
1,1-Dichloroethane	# 3.423	3.190	6.8 #
1,2-Dichloroethene (total)	1.875	1.693	9.7
Chloroform	* 3.336	3.107	6.9 *
1,2-Dichloroethane	2.190	1.973	9.9
2-Butanone	0.264	0.266	-0.8
1,1,1-Trichloroethane	0.555	0.453	18.4
Carbon Tetrachloride	0.496	0.409	17.5
Vinyl Acetate	0.889	0.951	-7.0
Bromodichloromethane	0.629	0.578	8.1
1,2-Dichloropropane	* 0.476	0.437	8.2 *
cis-1,3-Dichloropropene	0.648	0.620	4.3
Trichloroethene	0.462	0.418	9.5
Dibromochloromethane	0.488	0.446	8.6
1,1,2-Trichloroethane	0.352	0.335	4.8
Benzene	1.254	1.295	-3.3
trans-1,3-Dichloropropene	0.471	0.459	2.5
2-Chloroethylvinylether	0.274	0.210	23.4
Bromoform	# 0.373	0.343	8.0 #
4-Methyl-2-Pentanone	0.775	0.852	-9.9
2-Hexanone	0.426	0.443	-4.0
Tetrachloroethene	0.457	0.426	6.8
1,1,2,2-Tetrachloroethane	# 0.964	1.209	-25.4 #
Toluene	* 0.953	0.953	0.0 *
Chlorobenzene	# 1.118	1.116	0.2 #
Ethylbenzene	* 0.545	0.516	5.3 *
Styrene	1.080	1.119	-3.6
Xylene (total)	0.670	0.707	-5.5
Toluene-d8	1.319	1.425	-8.0
Bromofluorobenzene	0.621	0.618	0.5
1,2-Dichloroethane-d4	1.516	1.413	6.8

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Instrument ID: V6 Calibration date: 10/12/91 Time: 1259
 Lab File ID: F2930 Init. Calib. Date(s): 09/22/91 09/22/91
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	# 1.246	1.317	-5.7 #
Bromomethane	1.055	1.270	-20.4
Vinyl Chloride	* 1.258	1.322	-5.1 *
Chloroethane	0.651	0.806	-23.8
Methylene Chloride	1.704	1.783	-4.6
Acetone	0.211	0.302	-43.1
Carbon Disulfide	4.156	4.208	-1.3
1,1-Dichloroethene	* 1.387	1.534	-10.6 *
1,1-Dichloroethane	# 3.250	3.499	-7.7 #
1,2-Dichloroethene (total)	1.727	1.896	-9.8
Chloroform	* 3.857	3.979	-3.2 *
1,2-Dichloroethane	2.171	2.383	-9.8
2-Butanone	0.111	0.173	-55.9
1,1,1-Trichloroethane	0.560	0.564	-0.7
Carbon Tetrachloride	0.479	0.471	1.7
Vinyl Acetate	0.538	0.444	17.5
Bromodichloromethane	0.622	0.610	1.9
1,2-Dichloropropane	* 0.407	0.414	-1.7 *
cis-1,3-Dichloropropene	0.603	0.579	4.0
Trichloroethene	0.415	0.420	-1.2
Dibromochloromethane	0.501	0.497	0.8
1,1,2-Trichloroethane	0.316	0.335	-6.0
Benzene	1.001	1.054	-5.3
trans-1,3-Dichloropropene	0.470	0.413	12.1
2-Chloroethylvinylether	0.190	0.203	-6.8
Bromoform	# 0.302	0.301	0.3 #
4-Methyl-2-Pentanone	0.332	0.399	-20.2
2-Hexanone	0.236	0.273	-15.7
Tetrachloroethene	0.430	0.425	1.2
1,1,2,2-Tetrachloroethane	# 0.596	0.627	-5.2 #
Toluene	* 0.839	0.868	-3.5 *
Chlorobenzene	# 1.057	1.006	4.8 #
Ethylbenzene	* 0.509	0.506	0.6 *
Styrene	1.098	1.046	4.7
Xylene (total)	0.601	0.593	1.3
<hr/>			
Toluene-d8	1.246	1.182	5.1
Bromofluorobenzene	0.742	0.749	-0.9
1,2-Dichloroethane-d4	1.759	1.874	-6.5

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Instrument ID: V2 Calibration date: 10/16/91 Time: 1021

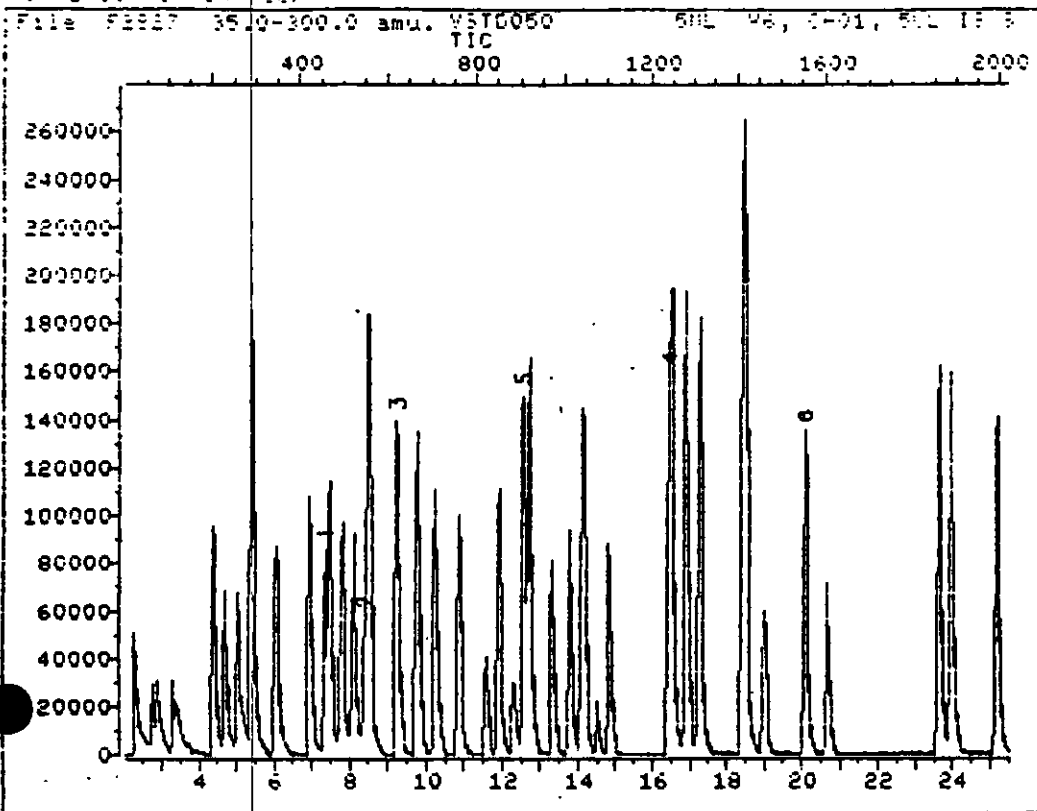
Lab File ID: B3022 Init. Calib. Date(s): 10/11/91 10/12/91

Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	# 0.455	0.392	13.8 #
Bromomethane	0.692	0.679	1.9
Vinyl Chloride	* 0.847	0.822	3.0 *
Chloroethane	0.531	0.535	-0.8
Methylene Chloride	1.715	0.727	57.6
Acetone	0.404	0.400	1.0
Carbon Disulfide	4.332	4.748	-9.6
1,1-Dichloroethene	* 0.935	1.139	-21.8 *
1,1-Dichloroethane	# 3.314	3.809	-14.9 #
1,2-Dichloroethene (total)	1.770	1.917	-8.3
Chloroform	* 3.260	3.443	-5.6 *
1,2-Dichloroethane	2.168	2.182	-0.6
2-Butanone	1.016	0.886	12.8
1,1,1-Trichloroethane	0.453	0.602	-32.9
Carbon Tetrachloride	0.426	0.503	-18.1
Vinyl Acetate	0.872	1.051	-20.5
Bromodichloromethane	0.586	0.630	-7.5
1,2-Dichloropropane	* 0.441	0.467	-5.9 *
cis-1,3-Dichloropropene	0.698	0.610	12.6
Trichloroethene	0.424	0.461	-8.7
Dibromochloromethane	0.446	0.451	-1.1
1,1,2-Trichloroethane	0.326	0.318	2.5
Benzene	1.169	1.422	-21.6
trans-1,3-Dichloropropene	0.439	0.448	-2.0
2-Chloroethylvinylether	0.220	0.197	10.4
Bromoform	# 0.315	0.324	-2.9 #
4-Methyl-2-Pentanone	0.591	0.630	-6.6
2-Hexanone	0.322	0.335	-4.0
Tetrachloroethene	0.422	0.481	-14.0
1,1,2,2-Tetrachloroethane	# 0.841	0.991	-17.8 #
Toluene	* 0.919	0.999	-8.7 *
Chlorobenzene	# 1.058	1.190	-12.5 #
Ethylbenzene	* 0.495	0.560	-13.1 *
Styrene	0.989	1.176	-18.9
Xylene (total)	0.609	0.754	-23.8
=====			
Toluene-d8	1.286	1.401	-8.9
Bromofluorobenzene	0.597	0.619	-3.7
1,2-Dichloroethane-d4	1.513	1.490	1.5

TOTAL ION CHROMATOGRAM



Data File: >F2827::D6 Quant Output File: ^F2827::D7
Name: VSTD050 5ML Instrument ID: U6
Misc: U6, CH01, 5UL IS/S 25UL/100ML + 5UL MTBE

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911008 21:54

Operator ID: KERYLYNN
Quant Time : 911009 10:55
Injected at: 911009 10:28

QUANT REPORT

Page 1

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 911009 10:55
 Output File: >F2827::D7 Injected at: 911009 10:28
 Data File: >F2827::D6 Dilution Factor: 1.00000
 Name: USTD050 FML Instrument ID: U6
 Misc: U6, CH01, 5UL IS/S 25UL/100ML + 5UL MTBE

D File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qual Time: 911008 21:54

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.33	128.0		75510	50.00	UG/L	71
2)	C010 Chloromethane	2.73	50.0		99943	55.93	UG/L	99
3)	C020 Vinyl Chloride	2.87	62.0		101935	54.40	UG/L	84
4)	C015 Bromomethane	3.28	94.0		91789	49.82	UG/L	91
5)	C025 Chloroethane	3.41	64.0		37922	32.66	UG/L	96
6)	C045 1,1-Dichloroethene	4.38	96.0		113802	51.88	UG/L	94
7)	C035 Acetone	4.44	43.0		13920	50.31	UG/L	23
8)	C040 Carbon Disulfide	4.69	76.0		334810	54.70	UG/L	100
9)	C030 Methylene Chloride	5.03	84.0		135911	51.97	UG/L	91
11)	C053 Trans-1,2-dichloroethene	5.41	96.0		139247	50.56	UG/L	96
12)	C055 Cis-1,2-dichloroethene	6.94	96.0		149748	52.11	UG/L	81
13)	CXXX Methyl tert-butyl ether	5.41	73.0		239531	48.92	UG/L	89
14)	C050 1,1-Dichloroethane	6.03	63.0		266766	52.38	UG/L	100
15)	C060 Chloroform	7.48	83.0		286198	49.43	UG/L	95
16)	C065 1,2-Dichloroethane	8.51	62.0		164138	51.59	UG/L	100
17)	C110 2-Butanone	6.96	72.0		8235	47.57	UG/L	96
18)	CS15 D4-1,2-dichloroethane	8.37	65.0		118610	45.49	UG/L	82
19)	*C110 1,4-Difluorobenzene	9.23	114.0		407259	50.00	UG/L	100
20)	C125 Vinyl Acetate	6.10	43.0		246295	49.72	UG/L	99
21)	C115 1,1,1-Trichloroethane	7.80	97.0		243305	53.92	UG/L	91
22)	C120 Carbon Tetrachloride	8.10	117.0		199472	52.04	UG/L	98
23)	C165 Benzene	8.49	78.0		403493	49.15	UG/L	100
24)	C150 Trichloroethene	9.76	130.0		173394	51.61	UG/L	95
25)	C140 1,2-Dichloropropane	10.24	63.0		165220	51.94	UG/L	100
26)	C130 Bromodichloromethane	10.86	83.0		244413	51.31	UG/L	77
27)	C175 2-Chloroethylvinylether	11.59	63.0		72344	57.93	UG/L	97
28)	C143 Cis-1,3-Dichloropropene	11.91	75.0		251615	52.67	UG/L	98
29)	C172 Trans-1,3-dichloropropene	13.31	75.0		167932	46.75	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.79	97.0		120208	50.77	UG/L	72
31)	C155 Dibromochloromethane	14.83	129.0		190425	50.97	UG/L	91
32)	C180 Bromoform	19.01	173.0		106999	50.52	UG/L	93
33)	*C120 D5-Chlorobenzene	16.44	117.0		308421	50.00	UG/L	100
34)	CS05 D8-Toluene	12.55	98.0		400363	50.48	UG/L	94
35)	C205 4-Methyl-2-pentanone	12.31	43.0		99930	50.16	UG/L	86
36)	C230 Toluene	12.71	92.0		279066	50.87	UG/L	87
37)	C210 2-Hexanone	14.51	43.0		65728	51.20	UG/L	96
38)	C220 Tetrachloroethene	14.13	164.0		144216	50.19	UG/L	82
39)	C235 Chlorobenzene	16.51	112.0		335211	50.22	UG/L	95
40)	C240 Ethylbenzene	16.90	106.0		168417	50.87	UG/L	95
41)	CXXX Xylenes (p)	17.26	106.0		206509	49.01	UG/L	97

900186

QUANT REPORT

Page 2

Operator ID: KERYLYNN Quant Rev: 7 Quant Time: 911009 10:55
 Output File: ^F2827::D7 Injected at: 911009 10:28
 Data File: >F2827::D6 Dilution Factor: 1.00000
 Name: USTD050 Instrument ID: U6
 Disc: U6, CH01, 5UL IS/S 25UL/100ML + 5UL MTBE

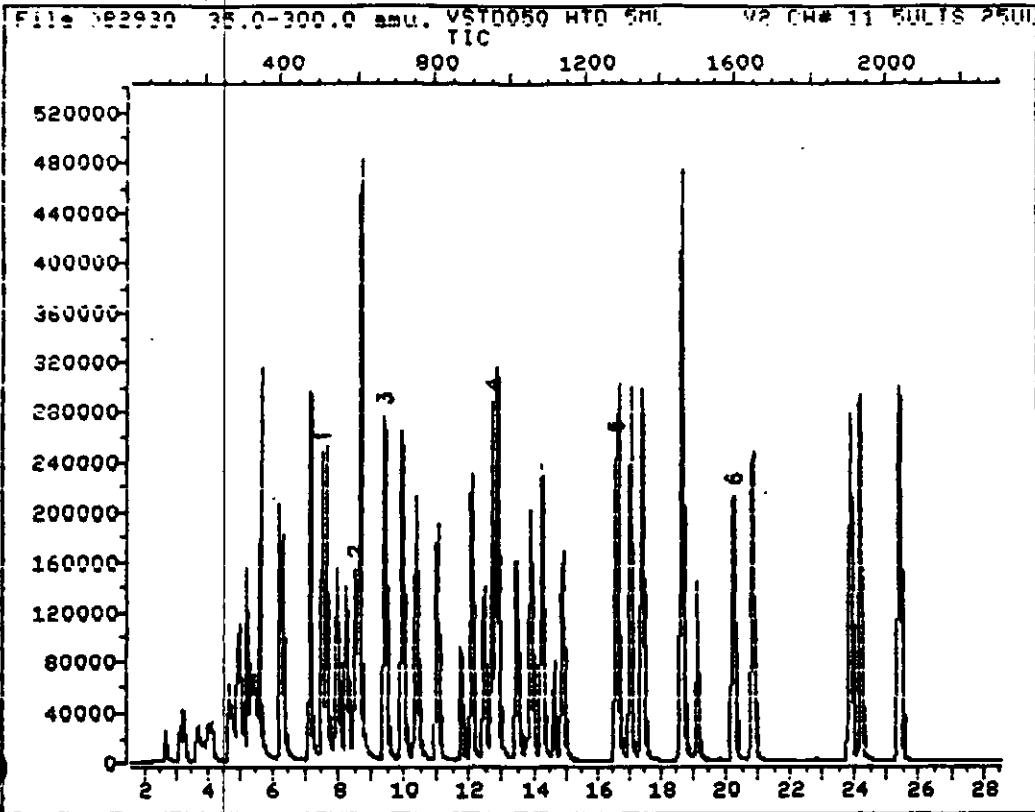
D File: MOBID6::MT
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERDD/ENSECO
 Last Calibration: 910814 09:37 Last Qcal Time: 911008 21:54

	Compound	R.T.	Q	ion	Area	Conc	Units	q
45)	CS10 Bromofluorobenzene	20.09	95.0		220101	49.28	UG/L	68
46)	C335 Dichlorobenzene (m)	23.64	146.0		289245	49.44	UG/L	100
47)	C340 Dichlorobenzene (p)	23.96	146.0		261567	48.31	UG/L	100
48)	C350 Dichlorobenzene (o)	25.19	146.0		259603	48.89	UG/L	100
49)	C250 Xylenes (total)	18.46	106.0		196274	50.19	UG/L	92

Compound is ISTD

000187

TOTAL ION CHROMATOGRAM



Data File: >B2930::D6
Name: VSTD050 HTD 5ML
Misc: V2 CH# 11 5ULIS 25UL/100ML

Quant Output File: ^B2930::QT

Id File: VOHID2::\$\$
Title: HSL VOLATILES:105mmx.93mm:DB624:V2:ERCO/ENSECO HEATED
Last Calibration: 911009 11:41

Operator ID: NORA
Quant Time: 911010 10:02
Injected at: 911010 09:33

QUANT REPORT

Operator ID: NORA
 Output File: B2930::QT
 Data File: B2930::D6
 Name: USTD050 HTD 5ML
 Misc: V2 CH# 11 SULIS 25UL/100ML

Quant Rev: 6 Quant Time: 911010 10:02
 Injected at: 911010 09:33
 Dilution Factor: 1.00000

ID File: VOHID2::\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED
 Last Calibration: 911009 11:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.50	128.0	167202	50.00	UG/L	96
2)	C010 Chloromethane	3.12	50.0	127176	53.45	UG/L	98
3)	C020 Vinyl Chloride	3.25	62.0	164238	45.28	UG/L	88
4)	C015 Bromomethane	3.69	94.0	95277	27.83	UG/L	96
5)	C025 Chloroethane	3.87	64.0	74416	29.38	UG/L	96
6)	C045 1,1-Dichloroethene	4.62	96.0	135878M	29.10	UG/L	94
7)	C035 Acetone	4.69	43.0	64596	102.02	UG/L	100
8)	C040 Carbon Disulfide	4.97	76.0	663454	33.84	UG/L	100
9)	C030 Methylene Chloride	5.23	84.0	143576	52.25	UG/L	85
10)	C053 Trans-1,2-Dichloroethene	5.62	96.0	282738	45.92	UG/L	98
11)	C055 cis-1,2-Dichloroethene	7.11	96.0	305587	49.20	UG/L	94
12)	C050 1,1-Dichloroethane	6.21	63.0	532736	43.44	UG/L	84
13)	C060 Chloroform	7.65	83.0	518879	44.96	UG/L	96
14)	C065 1,2-Dichloroethane	8.66	62.0	329462	39.80	UG/L	100
15)	C110 2-Butanone	7.15	72.0	44471	44.52	UG/L	96
16)	CS15 04-1,2-Dichloroethane	8.52	65.0	235968	39.77	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.40	114.0	667525	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.31	43.0	635276	40.27	UG/L	97
19)	C115 1,1,1-Trichloroethane	7.97	97.0	302668	42.57	UG/L	93
20)	C120 Carbon Tetrachloride	8.27	117.0	272955	40.85	UG/L	98
21)	C165 Benzene	8.65	78.0	864872	49.58	UG/L	100
22)	C150 Trichloroethene	9.92	130.0	278961	49.34	UG/L	98
23)	C140 1,2-Dichloropropene	10.37	63.0	291907	47.73	UG/L	100
24)	C130 Bromodichloromethane	10.99	83.0	385783	45.47	UG/L	78
25)	C175 2-Chloroethylvinylether	11.74	63.0	140350	41.34	UG/L	95
26)	C143 Cis-1,3-Dichloropropene	12.04	75.0	438806	50.61	UG/L	96
27)	C172 Trans-1,3-Dichloropropene	13.44	75.0	281801	40.16	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.89	97.0	223525	48.83	UG/L	72
29)	C155 Dibromochloromethane	14.91	129.0	297875	44.95	UG/L	96
30)	C180 Bromoform	19.11	173.0	228817	44.51	UG/L	98
31)	*C120 05-Chlorobenzene	16.55	117.0	454669	50.00	UG/L	100
32)	CS05 08-Toluene	12.69	98.0	648523	51.70	UG/L	94
33)	C205 4-Methyl-2-Pentanone	12.46	43.0	387534	50.87	UG/L	86
34)	C230 Toluene	12.85	92.0	433460	52.55	UG/L	97
35)	C210 2-Hexanone	14.64	43.0	201753	45.86	UG/L	99
36)	C220 Tetrachloroethene	14.27	164.0	194042	48.30	UG/L	90
37)	C235 Chlorobenzene	16.63	112.0	507899	50.18	UG/L	74
38)	C240 Ethylbenzene	17.03	106.0	234948	50.83	UG/L	97
39)	CXXX Xylene (p)	17.41	106.0	291091	50.83	UG/L	99
40)	CXXX Xylenes (o)	18.60	106.0	324939	53.87	UG/L	99
41)	C245 Styrene	18.64	104.0	508945	51.85	UG/L	100
42)	C225 1,1,2-Trichloroethane	22.22	97.0	512271	57.25	UG/L	84

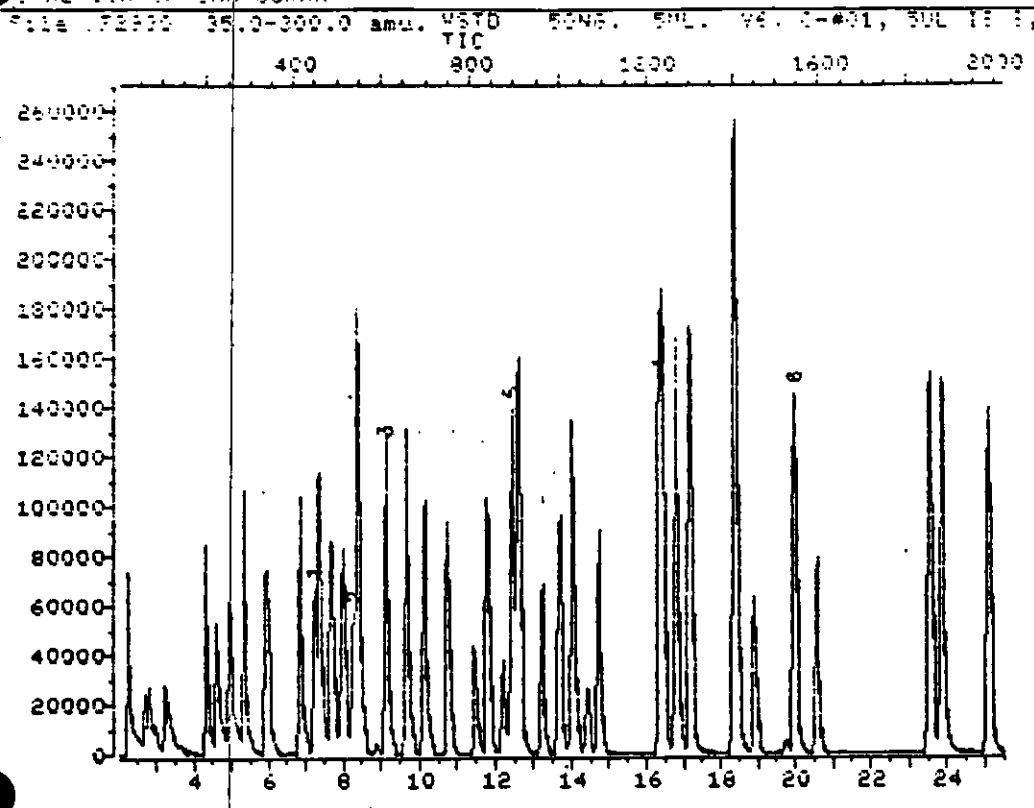
000189

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C335 Dichlorobenzene (m)	23.82	146.0	438465	44.24	UG/L	100
45)	C340 Dichlorobenzene (p)	24.15	146.0	449432	44.91	UG/L	100
46)	C350 Dichlorobenzene (o)	25.37	146.0	465961	45.31	UG/L	100
47)	C250 Xylene (Total)	18.60	106.0	321573	53.95	UG/L	97

* Compound 15 ISTD

000190

GC/MS TOTAL ION CHROMATOGRAM



Data File: >F2930::D6

Quant Output File: ^F2930::D7

Name: USTD 50NG. 5ML.

Instrument ID: U6

Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HLS,A,B

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911011 21:51

Operator ID: KERYLYNN

Quant Time : 911012 13:37

Injected at: 911012 12:59

000191

QUANT REPORT

Report ID: KERYLANN
 Report File: F0930:07
 Data File: F0930:06
 Date: 06/01/96
 Time: 06:01:00
 Method: STD. CONC. FML.
 Sample: U6, CH#01, FULL 15% STD=05UL/100ML HLS,A,B
 Quant Peak: 7
 Quant Time: 911012 13:47
 Injected at: 911012 12:59
 Dilution Factor: 1.0000
 Instrument ID: W6

0 File: M0910s:MT

File: HSL M0910S: 75m x .53mm: DB624 U6 EPDOWENSECO
 Last Calibration: 910914 09:37
 Last Cal Time: 911011 21:51

	Compound	R.T.	Q Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.24	128.0	67559	50.00	UG/L	71
2)	C010 Chloromethane	2.68	50.0	89055	51.95	UG/L	98
3)	C020 Vinyl Chloride	2.82	62.0	89375	48.03	UG/L	88
4)	C015 Bromomethane	3.22	94.0	85842	53.10	UG/L	99
5)	C025 Chloroethane	3.33	64.0	54494M	59.37	UG/L	97
6)	C045 1,1-Dichloroethene	4.31	96.0	103699	51.24	UG/L	91
7)	C035 Acetone	4.37	43.0	20430	56.00	UG/L	8
8)	C040 Carbon Disulfide	4.60	76.0	284467	49.01	UG/L	100
9)	C030 Methylene Chloride	4.94	84.0	120534	45.76	UG/L	83
10)	C053 Trans-1,2-dichloroethene	5.31	96.0	128186	50.28	UG/L	94
12)	C055 Cis-1,2-dichloroethene	6.84	96.0	138011	48.52	UG/L	88
14)	C050 1,1-Dichloroethane	5.93	63.0	236548	49.61	UG/L	100
15)	C060 Chloroform	7.38	83.0	269006	49.43	UG/L	96
16)	C065 1,2-Dichloroethane	8.40	62.0	161064	48.06	UG/L	100
17)	C110 2-Butanone	6.86	72.0	11707	61.73	UG/L	88
18)	CS15 D4-1,2-dichloroethane	8.27	65.0	126664	48.44	UG/L	88
19)	*C110 1,4-Difluorobenzene	9.11	114.0	380644	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.99	43.0	169032	47.48	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.70	97.0	215005	49.14	UG/L	89
22)	C120 Carbon Tetrachloride	8.00	117.0	179548	50.82	UG/L	98
23)	C165 Benzene	8.37	78.0	401611	51.97	UG/L	100
24)	C150 Trichloroethene	9.65	130.0	160145	48.54	UG/L	96
25)	C140 1,2-Dichloropropane	10.13	63.0	157704	49.63	UG/L	100
26)	C130 Bromodichloromethane	10.74	83.0	232336	50.77	UG/L	82
27)	C175 2-Chloroethylvinylether	11.47	63.0	77311	51.88	UG/L	93
28)	C143 Cis-1,3-Dichloropropene	11.79	75.0	233677	50.27	UG/L	94
29)	C172 Trans-1,3-dichloropropene	13.20	75.0	144849	39.03	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.67	97.0	127709	48.92	UG/L	72
31)	C155 Dibromochloromethane	14.71	129.0	189355	48.71	UG/L	95
32)	C180 Bromoform	18.90	173.0	114635	48.19	UG/L	98
33)	*C120 D5-Chlorobenzene	16.32	117.0	313108	50.00	UG/L	100
34)	CS05 D8-Toluene	12.43	98.0	369829	49.23	UG/L	98
35)	C205 4-Methyl-2-pentanone	12.20	43.0	124844	55.86	UG/L	83
36)	C230 Toluene	12.60	92.0	271750	51.00	UG/L	88
37)	C210 2-Hexanone	14.40	43.0	85588	53.34	UG/L	97
38)	C220 Tetrachloroethene	14.01	164.0	133015	48.37	UG/L	88
39)	C235 Chlorobenzene	16.39	112.0	314824	49.06	UG/L	71
40)	C240 Ethylbenzene	16.79	106.0	158441	50.27	UG/L	97
41)	CXXX Xylenes (p)	17.16	106.0	193859	48.29	UG/L	96
42)	CXXX Xylenes (o)	18.34	106.0	188794	50.38	UG/L	99
43)	C245 Styrene	18.40	104.0	327247	49.15	UG/L	100

000192

QUANT REPORT

Page 2

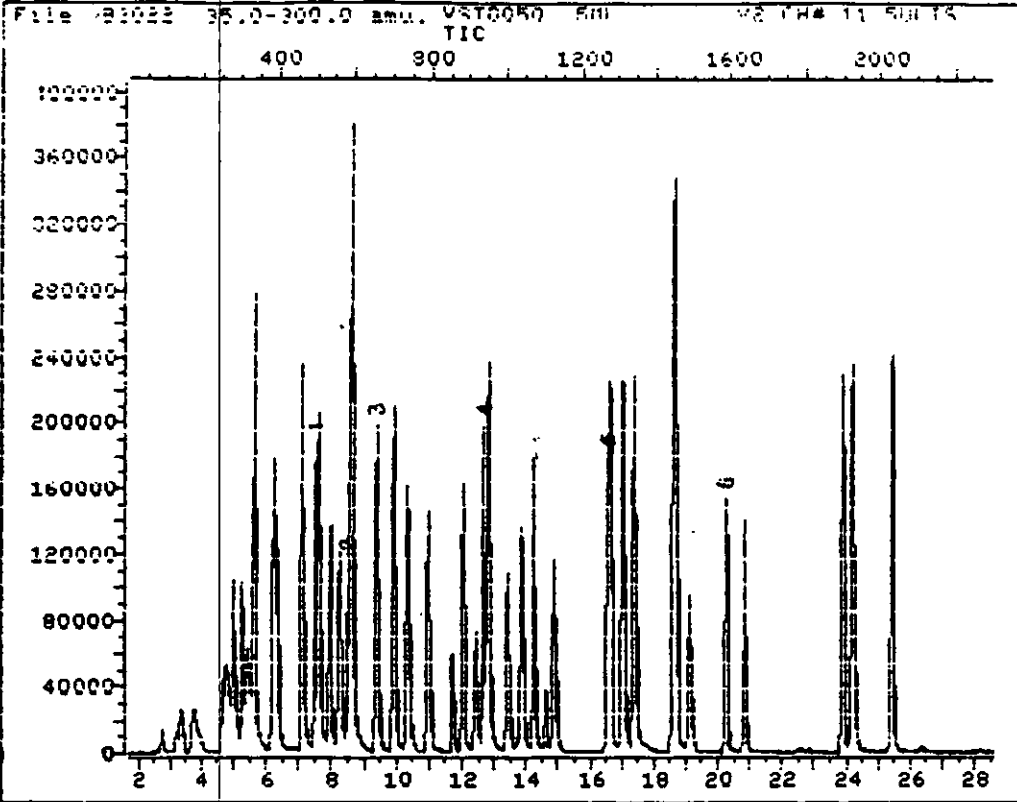
Operator ID: MERYLYNN
 Quant File: 952930::07
 Data File: 952930::06
 Name: ISTD: FONGS, 5ML
 Method: 06, CH01, FUL 15MS, STD=2FUL/10VML HLS.A.B
 Quant File: 952930::07
 Injected on: 911011 12:59
 Calibration Factor: 1.00000
 Instrument ID: 06

0 File: M08106::MT
 Title: HSL VOLATILES: 75m x .53mm: 08624 06 EPD0:ENSECO
 Last Calibration: 910814 09:37
 Last Qual Time: 911011 21:51

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
46)	C335 Dichlorobenzene (m)	23.54	146.0		274922	48.43	UG/L	100
47)	C340 Dichlorobenzene (p)	23.86	146.0		249590	47.96	UG/L	100
48)	C350 Dichlorobenzene (o)	25.09	146.0		258625	48.32	UG/L	100
49)	C250 Xylenes (total)	18.34	106.0		185581	51.69	UG/L	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3022::D0
Name: VSTD050 5ML
Misc: V2 CH# 11 5ULIS

Quant Output File: ^B3022::QT

Id File: VOAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO
Last Calibration: 911015 23:03

Operator ID: NORA
Quant Time: 911016 10:51
Injected at: 911016 10:21

QUANT REPORT

Operator ID: NCPA
 Output File: 85822:01
 Data File: 85822:00
 Name: UST0050 5ML
 Misc: 02 LHM 11 5ULIS

Quant Rev: 6 Quant Time: 911016 10:51
 Injected at: 911016 10:21
 Dilution Factor: 1.00000

ID File: UGAID2:\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:02:ERCO/ENSECU
 Last Calibration: 911015 23:03

	Compound	R. T.	Scan#	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.50	496	121162	50.00	UG/L	77
2)	C010 Chloromethane	3.19	128	47493	46.02	UG/L	98
3)	C020 Vinyl Chloride	3.32	139	99484	44.47	UG/L	87
4)	C015 Bromomethane	3.74	175	82110	30.89	UG/L	90
5)	C025 Chloroethane	3.93	191	64773	33.45	UG/L	99
6)	C045 1,1-Dichloroethene	4.78	264	137840	42.62	UG/L	97
7)	C035 Acetone	4.72	259	48448	40.37	UG/L	100
8)	C040 Carbon Disulfide	5.00	283	574452	40.04	UG/L	100
9)	C030 Methylene Chloride	5.26	305	88015	41.68	UG/L	90
10)	C053 Trans-1,2-Dichloroethene	5.63	337	231944	44.04	UG/L	93
11)	C055 cis-1,2-Dichloroethene	7.11	463	237492	44.15	UG/L	96
12)	C050 1,1-Dichloroethane	6.22	387	460875	45.87	UG/L	86
13)	C060 Chloroform	7.64	508	416570	43.12	UG/L	96
14)	C065 1,2-Dichloroethane	8.64	594	263958	41.24	UG/L	100
15)	C110 2-Butanone	7.14	466	107191	42.05	UG/L	98
16)	CS15 D4-1,2-Dichloroethane	8.50	582	180341	44.42	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.37	656	462273	50.00	UG/L	100
18)	C125 Vinyl Acetate	6.31	395	485368	45.48	UG/L	96
19)	C115 1,1,1-Trichloroethane	7.96	536	278339	53.12	UG/L	92
20)	C120 Carbon Tetrachloride	8.27	562	232235	46.68	UG/L	99
21)	C165 Benzene	8.62	592	657129	50.32	UG/L	100
22)	C150 Trichloroethene	9.90	701	212950	48.87	UG/L	98
23)	C140 1,2-Dichloropropane	10.34	739	215729	49.75	UG/L	100
24)	C130 Bromodichloromethane	10.96	792	290913	48.02	UG/L	79
25)	C175 2-Chloroethylvinylether	11.71	856	90986	33.20	UG/L	95
26)	C143 Cis-1,3-Dichloropropen	12.01	882	298713	49.64	UG/L	96
27)	C172 Trans-1,3-Dichloropropen	13.41	1001	190397	41.70	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.86	1040	146783	48.29	UG/L	70
29)	C155 Dibromochloromethane	14.89	1128	208253	46.92	UG/L	97
30)	C180 Bromoform	19.11	1488	149485	45.89	UG/L	98
31)	*C120 D5-Chlorobenzene	16.54	1269	311269	50.00	UG/L	100
32)	CS05 D8-Toluene	12.66	937	435702	53.05	UG/L	93
33)	C205 4-Methyl-2-Pentanone	12.42	917	196027	51.85	UG/L	86
34)	C230 Toluene	12.82	951	310738	51.57	UG/L	98
35)	C210 2-Hexanone	14.63	1105	104265	54.72	UG/L	99
36)	C220 Tetrachloroethene	14.24	1072	149450	51.27	UG/L	90
37)	C235 Chlorobenzene	16.63	1276	370097	51.46	UG/L	73
38)	C240 Ethylbenzene	17.02	1310	174180	52.60	UG/L	97
39)	CXXX Xylene (p)	17.41	1343	212630	51.13	UG/L	99
40)	CXXX Xylenes (o)	18.59	1444	235701	53.76	UG/L	95
41)	C245 Styrene	18.65	1449	365816	52.60	UG/L	95

000195

	Compound	R. T.	Scan#	Area	Time	Units	q
44)	C335 Dichlorobenzene (m)	23.86	1894	355553	35.92	UG/L	100
45)	C340 Dichlorobenzene (p)	24.17	1921	358936	35.96	UG/L	100
46)	C350 Dichlorobenzene (o)	25.40	2026	374842	34.95	UG/L	100
47)	C250 Xylene (Total)	18.59	1444	234488	53.98	UG/L	96

* Compound is ISID

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): B2930 Date Analyzed: 10/10/91
 Instrument ID: V2 Time Analyzed: 0933
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	167000	7.50	668000	9.40	455000	16.55
UPPER LIMIT	334000		1336000		910000	
LOWER LIMIT	83500		334000		227500	
EPA SAMPLE NO.						
01 SB-A-12-4	127000	7.49	432000	9.39	292000	16.58
02 VBLK01	154000	7.50	618000	9.36	432000	16.52

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): B3022 Date Analyzed: 10/16/91
 Instrument ID: V2 Time Analyzed: 1021
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

		IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
	12 HOUR STD	121000	7.50	462000	9.37	311000	16.54
	UPPER LIMIT	242000		924000		622000	
	LOWER LIMIT	60500		231000		155500	
	EPA SAMPLE NO.						
01	10-7-QA2DL	215000	7.51	873000	9.40	578000	16.54
02	VBLK04	135000	7.53	489000	9.41	347000	16.59

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2827 Date Analyzed: 10/09/91
 Instrument ID: V6 Time Analyzed: 1028
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	75500	7.33	407000	9.23	308000	16.44
UPPER LIMIT	151000		814000		616000	
LOWER LIMIT	37750		203500		154000	
EPA SAMPLE NO.						
01 10-7-QA1	67100	7.37	363000	9.26	283000	16.47
02 10-7-QA3	51300	7.34	252000	9.24	210000	16.46
03 VBLK02	75100	7.29	403000	9.19	323000	16.44

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): F2930 Date Analyzed: 10/12/91
 Instrument ID: V6 Time Analyzed: 1259
 Matrix: (soil/water) SOIL Level: (low/med) MED Column: (pack/cap) CAP

		IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
	12 HOUR STD	67600	7.24	381000	9.11	313000	16.32
	UPPER LIMIT	135200		762000		626000	
	LOWER LIMIT	33800		190500		156500	
	EPA SAMPLE NO.						
01	10-7-QA2	96800	7.30	522000	9.20	409000	16.40
02	SB-B-19--4	103000	7.34	551000	9.26	417000	16.46
03	VBLK03	60400	7.21	380000	9.09	303000	16.30

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

FNSF(II)-FR(II) Laboratory
 GC/MS PERFORMANCE STANDARD
 Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	16.38	16.38	Ok
75	30-60% of mass 95	45.58	45.58	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.79	7.79	Ok
173	Less than 2% of mass 174	.56	.57	Ok
174	Greater than 50% of mass 95	98.21	98.21	Ok
175	5-9% of mass 174	6.86	6.98	Ok
176	95-101% of mass 174	94.98	96.71	Ok
177	5-9% of mass 176	6.56	6.91	Ok

Injection Date: 10/09/91
 Injection Time: 09:35
 Data File: >B2910
 Scan: 61
 Name: BFB DIR INJ 50NG
 Misc: U2

>B2910 61 BFB DIR INJ 50NG U2 NRM

File: >B2910 Scan #: 61 Retn. time: 3.30

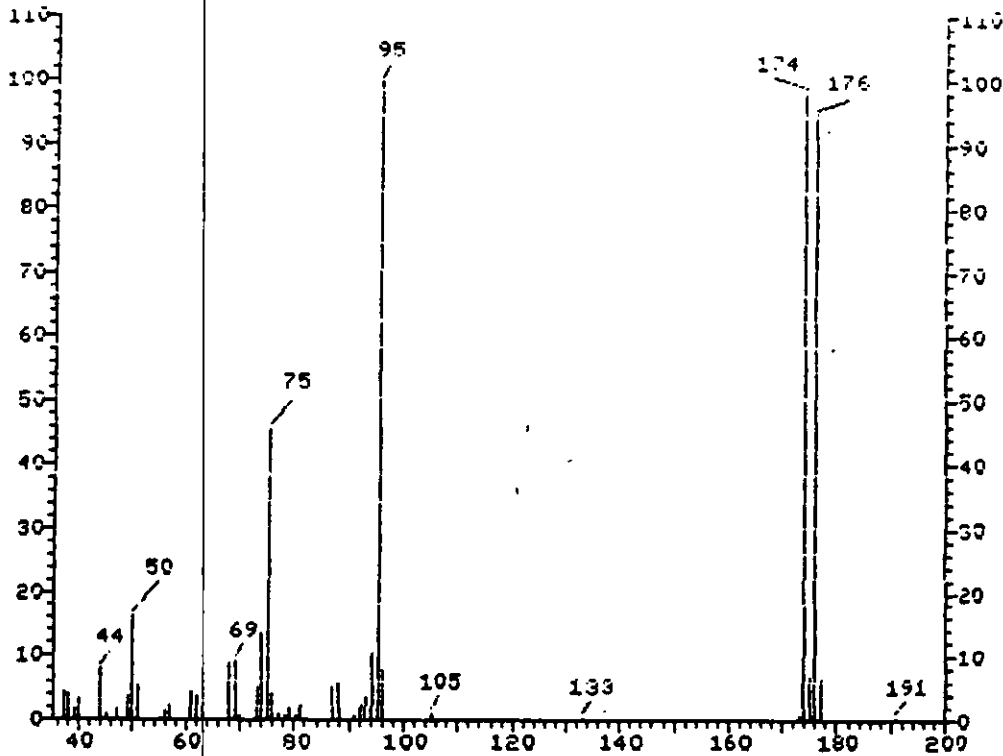
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	4.360	56.10	1.413	74.10	13.494	88.05	5.637	173.00	.559
38.05	4.000	57.10	2.300	75.00	45.584	91.05	.695	174.00	98.211
39.05	1.868	61.05	4.336	76.00	3.992	92.05	2.355	175.00	6.859
39.95	3.449	62.05	3.889	77.00	.982	93.05	3.713	176.00	94.978
44.05	8.017	63.05	2.340	78.10	.679	94.05	10.332	177.00	6.563
45.00	1.142	68.05	8.919	79.00	2.108	95.05	100.000	191.05	.511
47.00	1.637	69.05	9.118	80.10	.711	96.00	7.793	207.10	4.216
49.00	3.641	70.05	.767	81.00	2.276	105.10	1.102	208.10	.934
50.00	16.377	73.10	4.982	87.05	5.158	133.10	.487	209.00	.575
51.10	5.334								

000201

File >B2910
Ab 100

BFB DIR INJ 50NG V2
NRM

Scan 51
3.30 min.



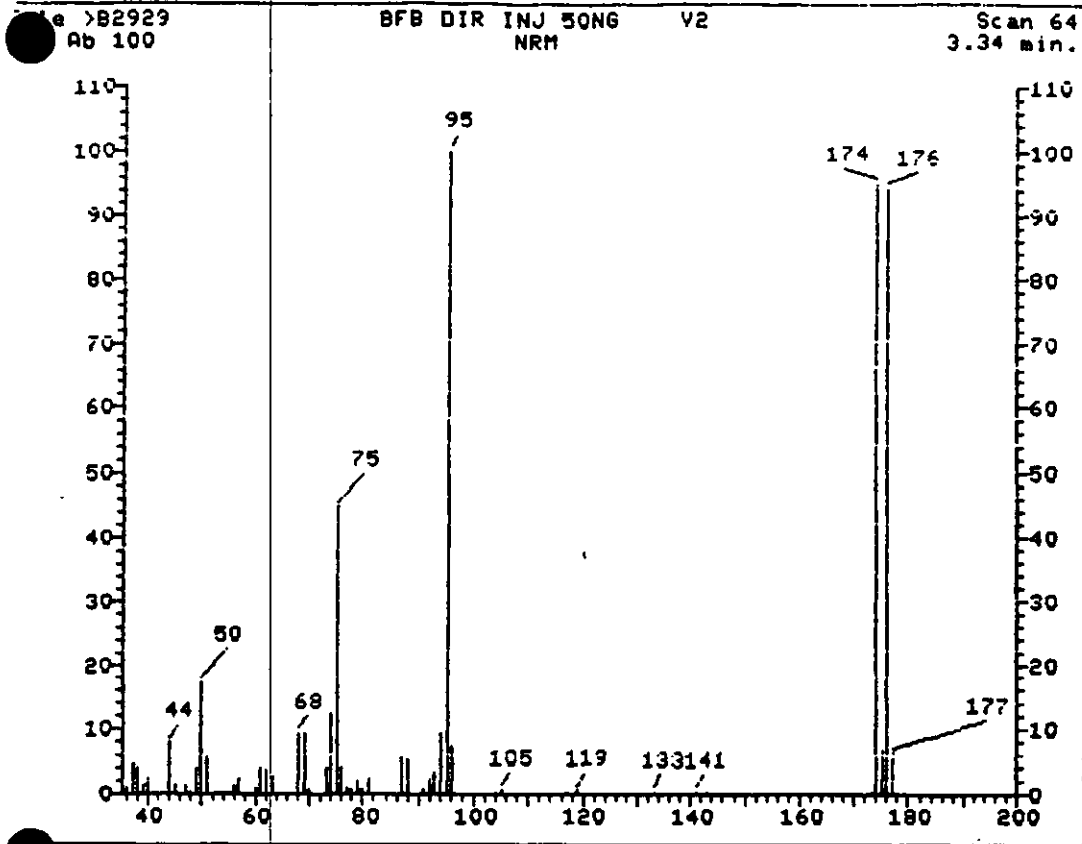
MS data file header from : >B2910

Sample: BFB DIR INJ 50NG Operator: NORA MS 10/09/91 9:35
Misc : V2

Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0
Method file: BFB2 Tuning file: MT7402 No. of extra records: 2
Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	9.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

000202



MS data file header from : >B2929

Sample: BFB DIR INJ 50NG Operator: NORA MS 10/10/91 8:31

Misc : U2

Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0

Method file: BFB2 Tuning file: MT7402 No. of extra records: 2

Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

000203

ENSECO-ERCO Laboratory

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	17.39	17.39	Ok
75	30-60% of mass 95	44.92	44.92	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.46	7.46	Ok
173	Less than 2% of mass 174	.36	.38	Ok
174	Greater than 50% of mass 95	95.08	95.08	Ok
175	5-9% of mass 174	6.73	7.08	Ok
176	95-101% of mass 174	94.43	99.31	Ok
177	5-9% of mass 176	6.37	6.75	Ok

Injection Date: 10/10/91

Injection Time: 08:31

Data File: >B2929

Scan: 64

Name: BFB DIR INJ 50NG

Misc: U2

>B2929 BFB DIR INJ 50NG U2
64 NRM

File: >B2929 Scan #: 64 Retn. time: 3.34

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	.904	51.10	5.767	74.00	12.488	91.05	.593	133.00	.403
37.05	4.784	56.10	1.216	75.00	44.923	92.05	2.474	140.95	.501
38.05	4.057	57.10	2.517	76.00	4.038	93.05	3.403	142.95	.477
39.05	1.491	60.05	.904	77.00	.935	94.05	9.470	173.00	.360
39.95	2.401	61.05	4.118	77.90	.648	95.05	100.000	174.00	95.082
44.05	8.003	62.05	3.873	79.00	2.175	96.10	7.460	175.00	6.733
45.00	1.265	63.05	2.658	80.00	.605	104.00	.409	176.00	94.428
47.00	1.424	68.05	9.476	81.00	2.377	105.10	.739	177.00	6.372
48.00	.538	69.05	9.415	86.95	5.670	116.95	.464	207.10	3.586
49.00	3.965	70.05	.745	87.95	5.260	118.95	.617	208.20	.703
50.00	17.394	73.00	4.099						

000204

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

ab Name: ENSECO-ERCO LABORATORY Contract: _____
 ab Code: ENSECO Case No.: _____ SAS No.: _____ SUB No.: _____
 ab File ID: >B2929 BFB Injection Date: 10/10/91
 Instrument ID: _____ BFB Injection Time: 8:31
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	17.4
75	30.0 - 60.0% OF MASS 95	44.9
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	.4(.4)1
174	Greater than 50.0% of mass 95	95.1
175	5.0 - 9.0% of mass 174	6.7(7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.4(99.3)1
177	5.0 - 9.0% of mass 176	6.4(6.7)2

1-Value is % mass 174

2-Value is % mass 176

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

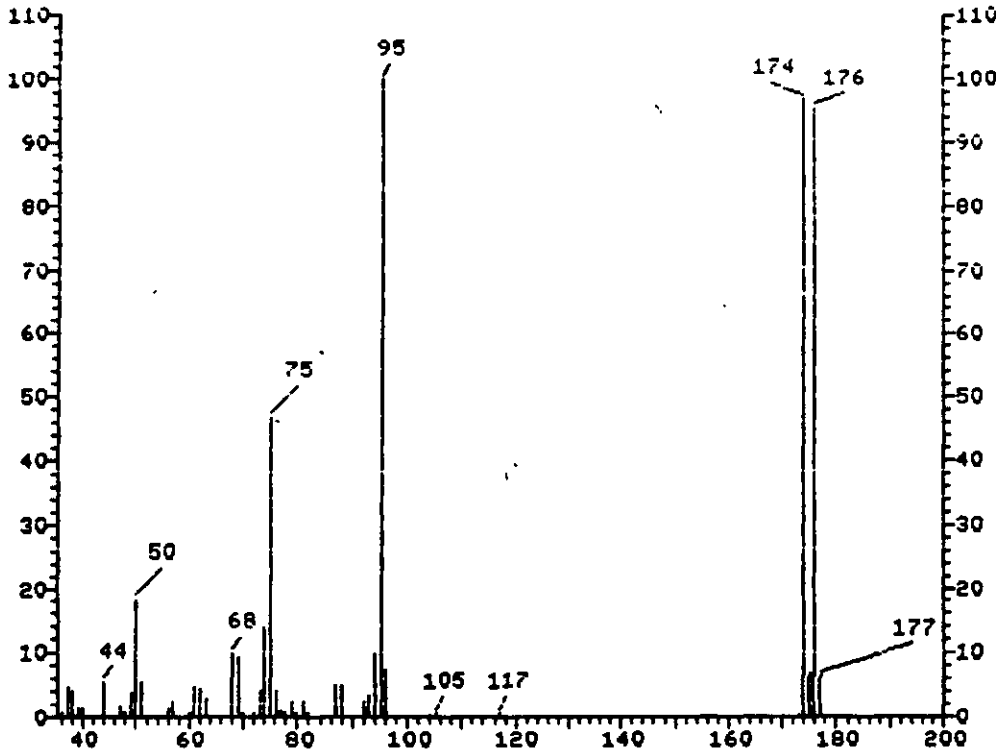
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BFB_50ng			
02	USTD050	50ppb_STD			
03	UBLK	Proc_Blank			
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

000205

le >B2949
k Ab 100

BFB DIR INJ 50NG V2
NRM

Scan 62
3.32 min.



MS data file header from : >B2949

Sample: BFB DIR INJ 50NG Operator: NORA MS 10/11/91 16:41
Misc : U2

Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0

Method file: BFB2 Tuning file: MT7402 No. of extra records: 2

Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

000206

ENSECO-ERCO Laboratory
 GC/MS PERFORMANCE STANDARD
 Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	18.29	18.29	Ok
75	30-60% of mass 95	46.81	46.81	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.45	7.45	Ok
173	Less than 2% of mass 174	.48	.50	Ok
174	Greater than 50% of mass 95	97.06	97.06	Ok
175	5-9% of mass 174	6.82	7.03	Ok
176	95-101% of mass 174	95.47	98.37	Ok
177	5-9% of mass 176	6.41	6.71	Ok

Injection Date: 10/11/91
 Injection Time: 16:41
 Data File: >B2949
 Scan: 62
 Name: BFB DIR INJ 50NG
 Misc: U2

>B2949 BFB DIR INJ 50NG U2
 62 NRM

File: >B2949 Scan #: 62 Retn. time: 3.32

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	.863	51.10	5.403	72.00	.585	81.00	2.495	104.00	.437
37.05	4.880	56.00	1.245	73.00	3.992	82.00	.554	105.10	.579
38.05	4.159	57.10	2.255	74.00	14.029	86.95	5.101	116.95	.579
39.05	1.472	59.95	.739	75.10	46.812	87.95	4.935	173.00	.481
40.05	1.429	61.05	4.756	76.10	4.005	92.05	2.434	174.00	97.055
44.05	5.539	62.05	4.276	77.10	.900	93.05	3.419	175.00	6.820
47.00	1.756	63.05	2.618	78.00	.598	94.05	10.006	176.00	95.472
48.00	.647	68.05	9.975	79.00	2.545	95.05	100.000	177.00	6.407
49.00	3.881	69.05	9.291	80.00	.696	96.10	7.455	207.20	2.199
50.00	18.286	70.05	.702						

000207

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO LABORATORY Contract: _____
 Lab Code: ENSECO Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >B2949 BFB Injection Date: 10/11/91
 Instrument ID: _____ BFB Injection Time: 16:41
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	18.3
75	30.0 - 60.0% OF MASS 95	46.8
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	.5(.5)1
174	Greater than 50.0% of mass 95	97.1
175	5.0 - 9.0% of mass 174	6.8(7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	95.5(98.4)1
177	5.0 - 9.0% of mass 176	6.4(6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

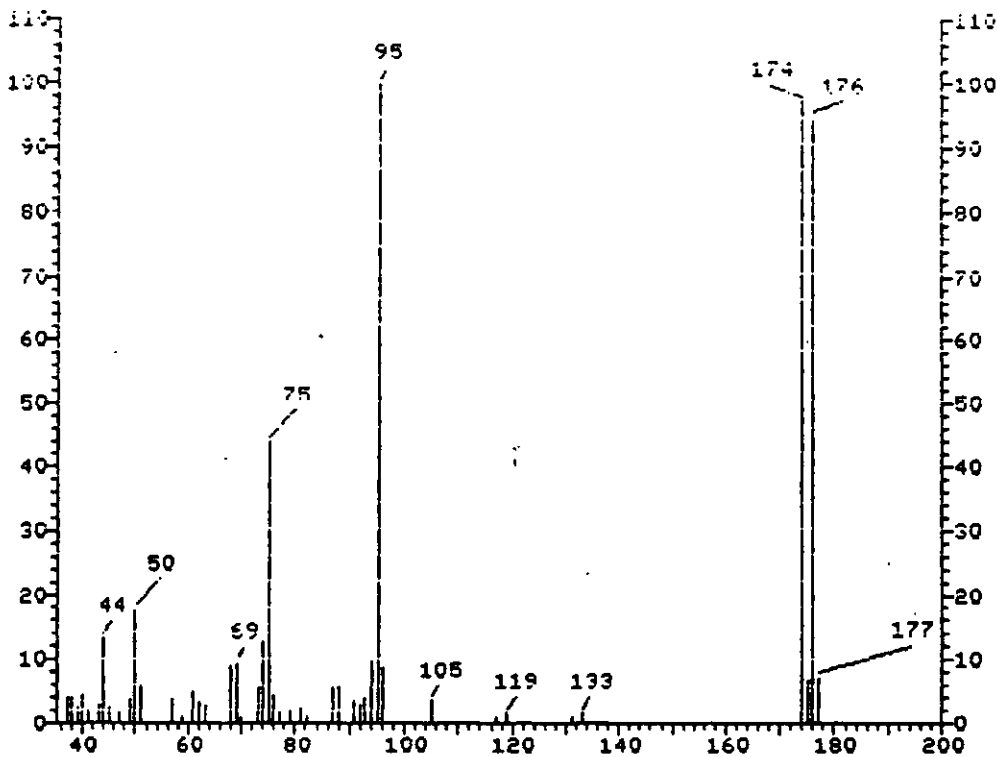
EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BFB_50ng			
02	_VSTD050	_50ppb_STD		
03	_VBLK	_Proc_Blank		
04				
05				
06				
07				
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10				
11				
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13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

000208

>B3020
Ab 100

BFB DIR INJ 50NG V2
NRM

Scan 66
3.35 min.



MS data file header from : >B3020

Sample: BFB DIR INJ 50NG Operator: NORA MS 10/16/91 9:15
Misc : U2

Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS #: 0
Method file: BFB2 Tuning file: MT7402 No. of extra records: 2
Source temp.: 220 Analyzer temp.: 220 Transfer line temp.: 220

Chromatographic temperatures :	160.	160.	0.	0.	0.
Chromatographic times, min. :	1.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

000209

ENSECO-ERCO Laboratory
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	17.38	17.58	Ok
75	30-60% of mass 95	43.99	43.99	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.72	8.72	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	97.26	97.26	Ok
175	5-9% of mass 174	6.88	7.07	Ok
176	95-101% of mass 174	94.84	97.51	Ok
177	5-9% of mass 176	7.12	7.51	Ok

Injection Date: 10/16/91
Injection Time: 09:15
Data File: >B3020
Scan: 66
Name: BFB DIR INJ 50NG
Misc: U2

>B3020 BFB DIR INJ 50NG U2
66 NRM

File: >B3020 Scan #: 66 Retn. time: . 3.35

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	4.199	50.00	17.378	73.00	5.646	91.05	3.320	131.10	1.007
38.05	4.071	51.10	6.058	74.10	12.895	92.05	2.866	133.10	1.561
39.05	2.468	57.10	3.688	75.10	43.992	93.05	4.057	174.00	97.262
39.95	4.256	59.05	1.092	76.00	4.256	94.05	9.803	175.00	6.880
41.05	2.100	61.05	5.008	77.00	1.702	95.15	100.000	176.00	94.836
43.05	2.851	62.05	3.532	79.00	2.171	96.10	8.725	177.00	7.122
44.05	13.406	63.05	2.781	81.00	2.341	105.10	3.561	207.10	8.597
45.00	2.270	68.05	9.150	82.10	1.007	117.05	1.121	208.20	1.773
47.00	1.603	69.05	9.335	86.95	5.703	119.05	1.561	209.10	1.064
49.00	3.674	70.05	.965	87.95	5.958				

000210

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ENSECO-ERCO LABORATORY Contract: _____
 Lab Code: ENSECO Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >B3020 BFB Injection Date: 10/16/91
 Instrument ID: _____ BFB Injection Time: 9:15
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	17.4
75	30.0 - 60.0% OF MASS 95	44.0
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	97.3
175	5.0 - 9.0% of mass 174	6.9(7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.8(97.5)1
177	5.0 - 9.0% of mass 176	7.1(7.5)2

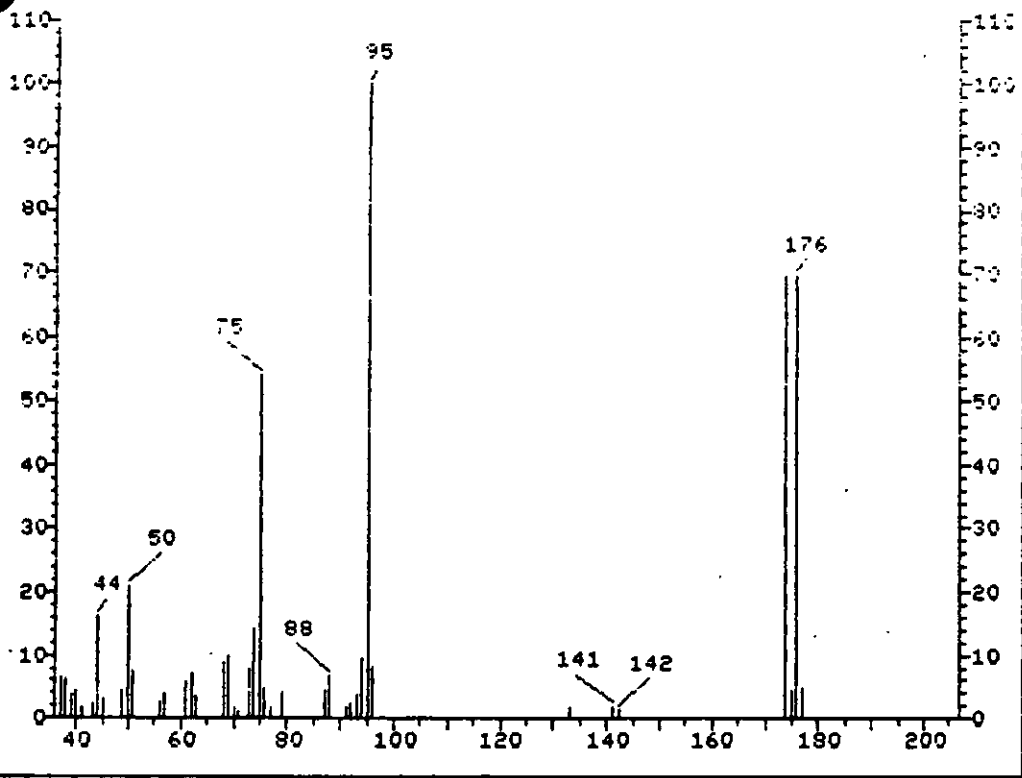
1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BFB_50ng			
02	_USTD050	_50ppb_STD		
03	_VBLK	_Proc_Blank		
04				
05				
06				
07				
08				
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13				
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17				
18				
19				
20				
21				
22				

000211



*TUN VOA
old SOW*

1S data file header from : >F2555::D4

Sample: BFB DIR INJ 50NG . Operator: KERYLYNN SUPER GRP. 9/22/91 9:15
 Misc : U6
 Sys. #: 2 . MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

ENSECO-EPCC LABORATORY
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	20.98	20.98	OK
75	30-60% of mass 95	54.14	54.14	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	8.18	8.18	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	69.66	69.66	OK
175	5-9% of mass 174	4.52	6.49	OK
176	95-101% of mass 174	69.74	100.12	OK
177	5-9% of mass 176	4.88	7.00	OK

Injection Date: 09/22/91
Injection Time: 09:15
Data File: >F2555
Scan: 173
Name: BFB DIR INJ 50NG .
Misc: U6

>F2555 BFB DIR INJ 50NG . U6
173 NRM

File: >F2555 Scan #: 173 Retn. time: 4.02

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	2.000	48.95	4.589	69.05	10.015	86.95	4.442	132.95	1.705
37.05	6.655	50.05	20.980	70.05	1.836	87.95	6.819	141.05	1.869
38.05	6.032	50.95	7.392	71.05	1.065	90.95	1.885	142.15	1.426
38.95	3.819	56.05	2.950	72.95	7.753	91.95	2.344	173.95	69.661
39.95	4.557	56.95	4.294	73.95	14.162	93.05	3.868	174.95	4.524
40.95	1.836	60.95	5.983	75.05	54.139	94.05	9.523	175.95	69.743
42.95	2.426	61.95	7.114	75.95	4.983	95.05	100.000	176.95	4.884
43.95	16.260	62.95	3.557	77.05	1.688	95.95	8.179	207.00	3.524
44.95	3.180	68.05	8.900	78.95	4.278				

000213

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLOUOROBENZENE (BFB)

Lab Name: SNEED-EPCO LABORATORY Contract: _____
 Lab Code: EPCO Case No.: _____ SAB No.: _____ SDG No.: _____
 Lab File ID: F2555 BFB Injection Date: 9/22/91
 Instrument ID: 06 BFB Injection Time: 9:15
 Matrix: (soil-water) _____ Level: (low/med) _____ Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	21.0
75	30.0 - 60.0% OF MASS 95	54.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	4.5(6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.7(100.1)1
177	5.0 - 9.0% of mass 176	4.9(7.0)2

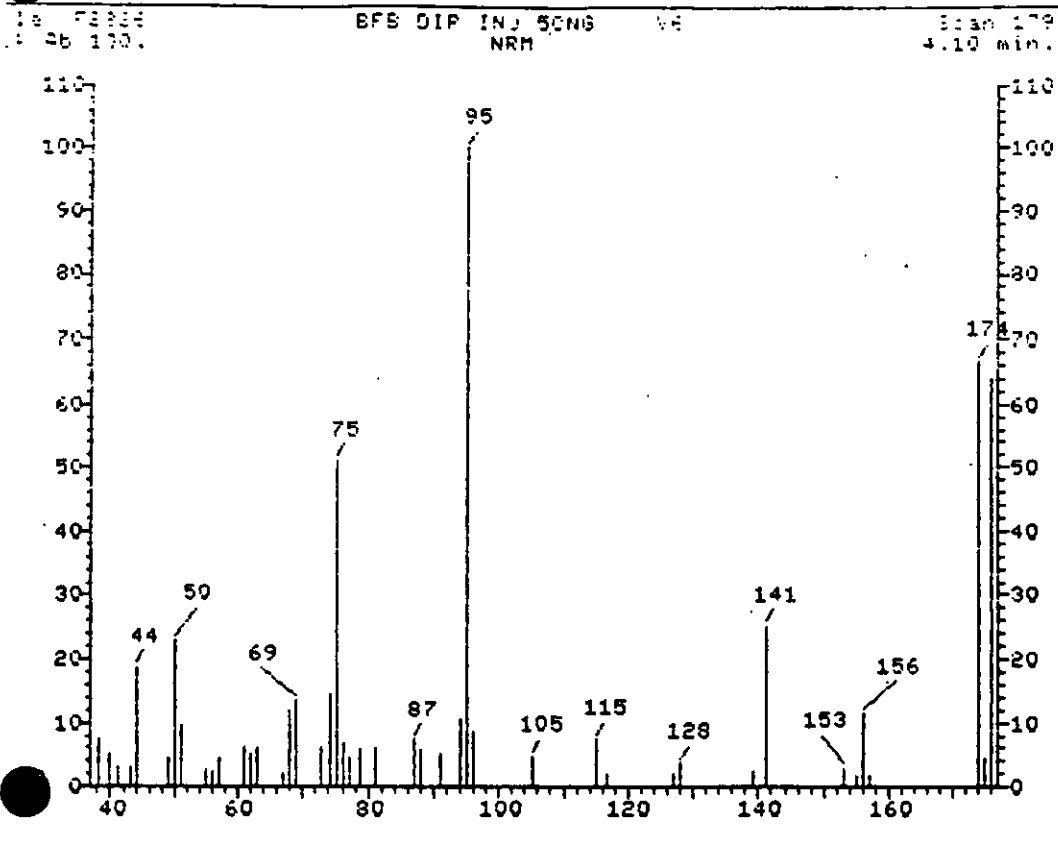
1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01					
02					
03					
04					
05					
06					
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21					
22					

000214



MS data file header from : >F2826::D6

Sample: BFB DIR INJ 50NG Operator: LIZ SUPER GRP. 10/09/91 9:21
 Misc : U6
 Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6
 Method file: BFB6 Tuning file: MT7406 No. of extra records: 2
 Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	8.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

000215

ENSECO-EPCO LABORATORY
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	22.90	22.90	Ok
75	30-60% of mass 95	51.14	51.14	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.42	8.42	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	66.51	66.51	Ok
175	5-9% of mass 174	4.36	6.56	Ok
176	95-101% of mass 174	64.00	96.23	Ok
177	5-9% of mass 176	4.46	6.97	Ok

Injection Date: 10/09/91
Injection Time: 09:21
Data File: >F2826
Scan: 179
Name: BFB DIR INJ 50NG
Misc: U6

>F2826 BFB DIR INJ 50NG U6
179 NRM

File: >F2826 Scan #: 179 Retn. time: 4.10

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	9.432	56.05	2.333	74.05	14.528	94.05	10.421	141.05	25.152
38.05	7.632	57.05	4.462	75.05	51.141	95.05	100.000	153.05	2.916
39.95	5.147	61.05	6.034	76.05	6.871	96.05	8.418	155.05	1.876
41.05	3.017	62.05	5.046	77.05	4.767	105.05	4.691	156.15	11.511
43.05	2.992	62.95	6.085	78.95	5.730	115.05	7.404	157.15	1.927
44.05	18.712	67.05	2.206	80.95	6.034	116.85	2.028	173.95	66.506
45.95	4.513	68.05	11.993	86.95	7.353	127.05	2.155	174.95	4.361
47.05	22.896	69.05	13.590	87.95	5.705	128.05	3.753	175.95	63.996
51.05	9.559	72.95	6.034	91.05	5.071	139.15	2.333	176.95	4.462
54.95	2.713								

000216

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMODIFLUOROBENZENE (BFB)

Name: ENECO-EPCC LABORATORY Contract: _____
 Code: ERCC Case No.: _____ SAS No.: _____ SDG No.: _____
 File ID: >F2826 BFB Injection Date: 10/09/91
 Instrument ID: U6 BFB Injection Time: 9:21
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	22.9
75	30.0 - 60.0% OF MASS 95	51.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.4(6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.0(96.2)1
177	5.0 - 9.0% of mass 176	4.5(7.0)2

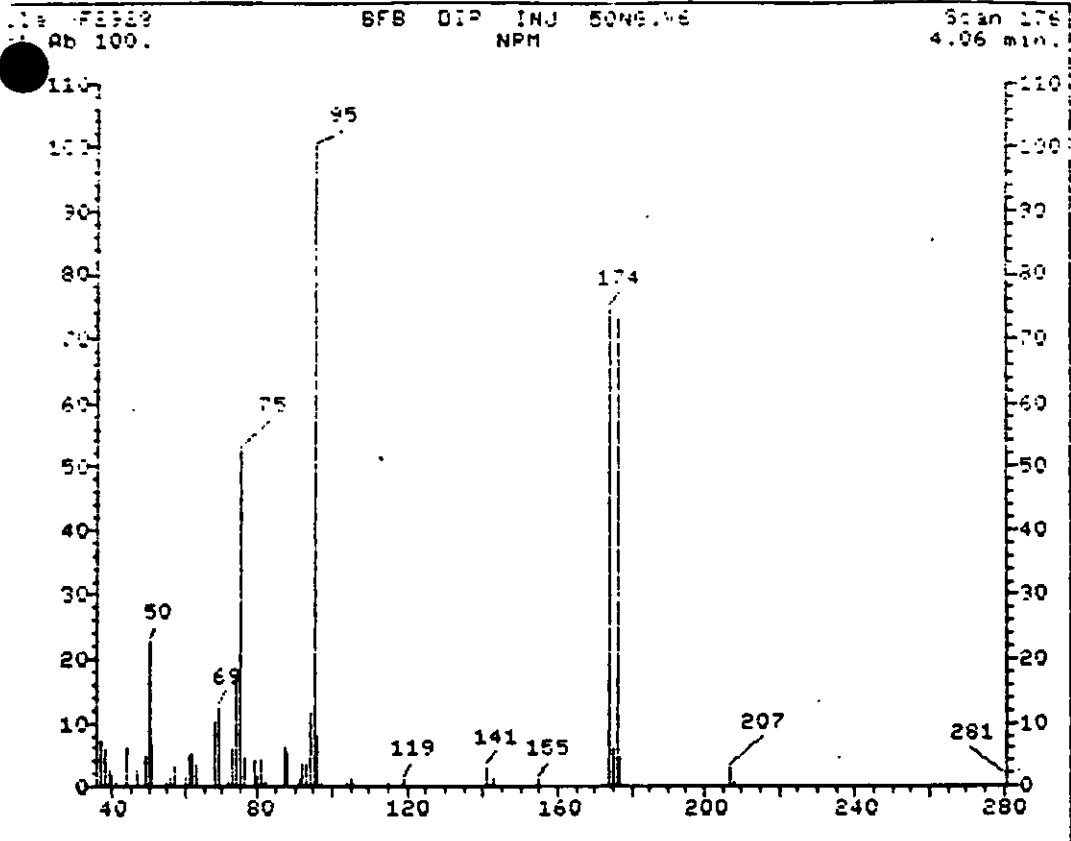
1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01					
02					
03					
04					
05					
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22					

000217



TUNVOIA
old SOW

MS data file header from : >F2928::D6

Sample: BFB DIR INJ 50NG. Operator: KERYLYNN SUPER GRP. 10/12/91 11:48

Misc : U6

Sys. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: U6

Method file: BFB6 Tuning file: MT7406 No. of extra records: 2

Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: 0

Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

000218

ENSECO-ERIC LABORATORY

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	22.56	22.56	OK
75	30-60% of mass 95	52.40	52.40	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.76	7.76	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	74.47	74.47	OK
175	5-9% of mass 174	5.80	7.78	OK
176	95-101% of mass 174	72.97	97.98	OK
177	5-9% of mass 176	4.86	6.66	OK

Injection Date: 10/12/91
 Injection Time: 11:48
 Data File: >F2928
 Scan: 176
 Name: BFB DIR INJ 50NG.
 Misc: U6

F2928 BFB DIR INJ 50NG.U6
 176 NRM

File: >F2928 Scan #: 176 Retn. time: 4.06

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
55.95	1.438	55.05	1.146	73.95	17.034	92.95	3.376	141.05	2.857
57.05	7.043	55.95	1.547	75.05	52.402	94.05	11.601	142.95	1.010
58.05	5.687	57.05	3.221	76.05	4.540	95.05	100.000	155.05	1.101
59.05	2.484	59.95	1.510	78.95	4.095	96.05	7.762	173.95	74.468
59.85	1.820	61.05	4.704	79.95	1.447	96.95	.965	174.95	5.796
60.95	.710	61.95	5.068	80.85	4.076	103.95	.874	175.95	72.966
63.95	6.051	63.05	3.339	81.95	.819	105.05	1.265	176.95	4.859
67.05	2.557	68.05	10.182	86.95	6.297	105.75	.564	207.00	2.748
69.05	4.768	69.05	12.402	87.95	5.114	114.95	.746	207.90	.810
70.05	22.557	71.85	.728	91.05	1.146	118.95	.965	281.00	.983
71.05	6.470	72.95	5.896	91.95	3.439				

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Name: EPA/ECO-ERCO LABORATORY Contract: _____
 Code: EP00 Case No.: _____ SAS No.: _____ S06 No.: _____
 File ID: P0909 BFB Injection Date: 10/12/91
 Instrument ID: 16 BFB Injection Time: 11:48
 Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	22.6
75	30.0 - 60.0% OF MASS 95	52.4
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8(7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	73.0(98.0)1
177	5.0 - 9.0% of mass 176	4.9(6.7)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

000220

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2933

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

% Moisture: not dec. 0 Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND 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	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	3	J
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
110-75-8	-----2-Chloroethylvinylether	10	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK01
Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2933
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/10/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

NC

8240-SL

R- 101091 V2A

7B2933

meCl₂
2-But

Reduced by : JD Date: 101091
Reviewed by: RD Date: 101491

Data File: >B2933
Page: 1

Enseco GC/MS
Target Compound Data Summary Sheet

Sample: UBLK01 SML
Misc : U2, CH3, 5UL IS
Injected : 10/10/91 11:32
Analyst: NDRA
ID File: UOHID2
Quant list threshold: 1.00

Units: UG/KG
Run Factor: 1.000
Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug) Spiked	Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	.2500	.2748	110	70 121
CS05 D8-Toluene	.2500	.2441	97.6	81 117
CS10 Bromofluorobenzene (BFB)	.2500	.2610	104	74 121

Target Compounds: UOHID2

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
265	1.667 Shg 1.667		C035 Acetone
		BDL	C040 Carbon Disulfide
311	2.140	2.140	C030 Methylene Chloride
		BDL	C053 Trans-1,2-Dichloroethene
		BDL	C055 cis-1,2-Dichloroethene
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
473	3.010	3.010	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropen
		BDL	C172 Trans-1,3-Dichloropropen
		BDL	C160 1,1,2-Trichloroethane
		BDL	C155 Dibromochloromethane
		BDL	C180 Bromoform

000223

Data file: >B2933
Sample: UBLK

5ML Page: 2

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL		
	BDL	C205	4-Methyl-2-Pentanone
	BDL	C230	Toluene
	BDL	C210	2-Hexanone
	BDL	C220	Tetrachloroethene
	BDL	C235	Chlorobenzene
	BDL	C240	Ethylbenzene
	BDL	CXXX	Xylene (p)
	BDL	CXXX	Xylenes (o)
	BDL	C245	Styrene
	BDL	C225	1,1,2,2-Tetrachloroethan
	BDL	C335	Dichlorobenzene (m)
	BDL	C340	Dichlorobenzene (p)
	BDL	C350	Dichlorobenzene (o)
	BDL	C250	Xylene (Total)

Diagnostic Quant Report

Data File: >B2933::D6 Injected at: 11:32 10/10/91
 Quant'd : 12:02 10/10/91
 ID File : VOHID2:\$\$ Calibrated : 11:39 10/10/91

Compound	- R.T. Info -				Area	RF	Conc.	
	Pred	Found	Dif	Ion				
1) *CI01	Bromochloromethane	7.50	7.50	.00	128.0	154004	1.0000	50.00
2) C010	Chloromethane	3.12	0.00	--	50.0	0	.7606	0.00
3) C020	Vinyl Chloride	3.25	0.00	--	62.0	0	.9823	0.00
4) C015	Bromomethane	3.68	0.00	--	94.0	0	.5698	0.00
5) C025	Chloroethane	3.87	0.00	--	64.0	0	.4451	0.00
6) C045	1,1-Dichloroethene	4.62	4.64	.03	96.0	1338	.8127	.53
7) C035	Acetone	4.69	4.71	.02	43.0	1984	.3863	1.67
7)D C035	Acetone	4.69	5.14	.45	43.0	1272	.3863	1.07
8) C040	Carbon Disulfide	4.97	4.91	.06	76.0	2035	3.9680	.17
9) C030	Methylene Chloride	5.23	5.25	.02	84.0	5661	.8587	2.14
10) C053	Trans-1,2-Dichloroe	5.61	5.59	.02	96.0	1096	1.6910	.21
11) C055	cis-1,2-Dichloroeth	7.11	7.08	.03	96.0	1027	1.8277	.18
12) C050	1,1-Dichloroethane	6.21	0.00	--	63.0	0	3.1862	0.00
13) C060	Chloroform	7.65	7.61	.04	83.0	2354	3.1033	.25
14) C065	1,2-Dichloroethane	8.66	8.61	.05	62.0	958	1.9704	.16
15) C110	2-Butanone	7.15	7.15	.00	72.0	2466	.2660	3.01
16) CS15	D4-1,2-Dichloroetha	8.52	8.49	.02	65.0	238859	1.4113	54.95
17) *CI10	1,4-Difluorobenzene	9.40	9.36	.04	114.0	617610	1.0000	50.00
18) C125	Vinyl Acetate	6.28	0.00	--	43.0	0	.9517	0.00
19) C115	1,1,1-Trichloroetha	7.93	7.94	.01	97.0	1029	.4534	.18
20) C120	Carbon Tetrachlorid	8.24	0.00	--	117.0	0	.4089	0.00
21) C165	Benzene	8.61	8.58	.03	78.0	5003	1.2956	.31
22) C150	Trichloroethene	9.88	9.85	.03	130.0	1502	.4179	.29
23) C140	1,2-Dichloropropene	10.32	10.28	.04	63.0	651	.4373	.12
24) C130	Bromodichloromethan	10.94	0.00	--	83.0	0	.5779	0.00
25) C175	2-Chloroethylvinyle	11.69	0.00	--	63.0	0	.2103	0.00
26) C143	Cis-1,3-Dichloropro	11.99	0.00	--	75.0	0	.6202	0.00
27) C172	Trans-1,3-Dichlorop	13.38	13.39	.01	75.0	889	.4589	.16
28) C160	1,1,2-Trichloroetha	13.83	13.82	.01	97.0	709	.3349	.17
29) C155	Dibromochloromethan	14.85	0.00	--	129.0	0	.4462	0.00
30) C180	Bromoform	19.03	0.00	--	173.0	0	.3428	0.00
31) *CI20	D5-Chlorobenzene	16.55	16.52	.03	117.0	432331	1.0000	50.00
32) CS05	D8-Toluene -	12.67	12.63	.04	98.0	602186	1.4264	48.83
33) C205	4-Methyl-2-Pentanon	12.44	0.00	--	43.0	0	.8523	0.00
34) C230	Toluene	12.83	12.79	.04	92.0	2628	.9534	.32
35) C210	2-Hexanone	14.62	0.00	--	43.0	0	.4437	0.00
36) C220	Tetrachloroethene	14.24	14.21	.04	164.0	713	.4268	.19
37) C235	Chlorobenzene	16.60	0.00	--	112.0	0	1.1171	0.00
38) C240	Ethylbenzene	17.00	17.01	.01	106.0	768	.5167	.17
39)D C240	Ethylbenzene	17.00	17.40	.40	106.0	980	.5167	.22
39)D CXXX	Xylene (p)	17.39	17.01	.37	106.0	768	.6402	.14
39) CXXX	Xylene (p)	17.39	17.40	.01	106.0	980	.6402	.18
40) CXXX	Xylenes (o)	18.57	18.59	.02	106.0	514	.7147	.08
41) C245	Styrene	18.61	18.64	.02	104.0	1934	1.1194	.20
42) C225	1,1,2,2-Tetrachloro	20.79	0.00	--	83.0	0	1.2096	0.00
43) CS10	Bromofluorobenzene	20.20	20.21	.01	95.0	279234	.6187	0.00
43)D CS10	Bromofluorobenzene	20.20	20.68	.48	95.0	889	.6187	.17

000225

46)	C350	Dichlorobenzene (o)	25.33	25.34	.02	146.0	1705	1.0248	.19
47)D	C250	Xylene (Total)	18.57	17.01	1.55	106.0	545	.7073	.09
47)	C250	Xylene (Total)	18.57	17.40	1.17	106.0	980	.7073	.16

* - Compound is an Internal Standard

D - Compound Deleted

Internal Standard Comparison

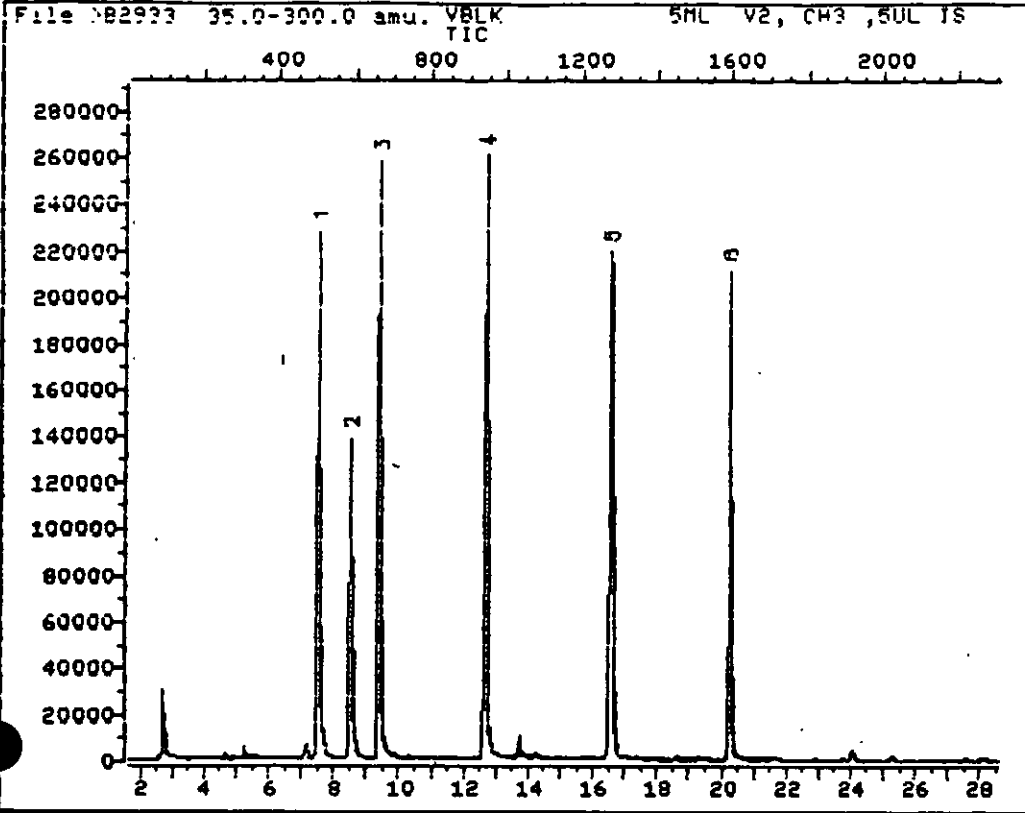
Sample: >82933 Date injected: 10/10/91 Standard: >82930 ✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	154004	167202	92.1
CI10 1,4-Difluorobenzene	617610	667525	92.5
CI20 O5-Chlorobenzene	432331	454669	95.1

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >B2933::D6

Quant Output File: ^B2933::QT

Name: VBLK01 5ML

Misc: V2, CH3 ,5UL IS

Id File: VOHID2::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED

Last Calibration: 911010 11:39

Operator ID: NORA

Quant Time: 911010 12:02

Injected at: 911010 11:32

000228

QUANT REPORT

Operator ID: NORA
 Output File: ^B2933::QT
 Data File: >B2933::D6
 Name: UBLK 01 5ML
 Misc: V2, CH3, 5UL IS

Quant Rev: 6 Quant Time: 911010 12:02
 Injected at: 911010 11:32
 Dilution Factor: 1.00000

ID File: VOHID2::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO HEATED

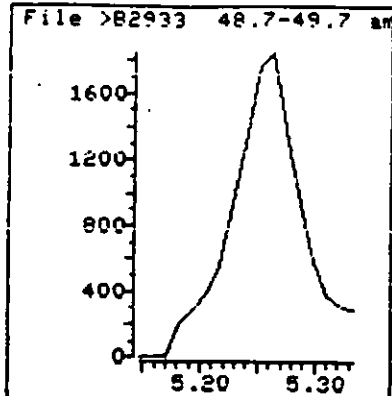
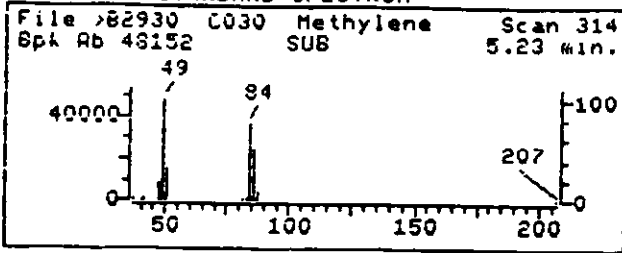
Last Calibration: 911010 11:39

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.50	128.0	154004	50.00	UG/L	94
6)	C045 1,1-Dichloroethene	4.64	96.0	1338	.53	UG/L	99
7)	C035 Acetone	4.71	43.0	1984	1.67	UG/L	100
8)	C040 Carbon Disulfide	4.91	76.0	2035	.17	UG/L	100
9)	C030 Methylene Chloride	5.25	84.0	5661	2.14	UG/L	86
10)	C053 Trans-1,2-Dichloroethene	5.59	96.0	1096	.21	UG/L	97
11)	C055 cis-1,2-Dichloroethene	7.08	96.0	1027	.18	UG/L	88
13)	C060 Chloroform	7.61	83.0	2354	.25	UG/L	92
14)	C065 1,2-Dichloroethane	8.61	62.0	958	.16	UG/L	100
	C110 2-Butanone	7.15	72.0	2466	3.01	UG/L	97
16)	CS15 D4-1,2-Dichloroethane	8.49	65.0	238859	54.95	UG/L	81
17)	*CI10 1,4-Difluorobenzene	9.36	114.0	617610	50.00	UG/L	100
19)	C115 1,1,1-Trichloroethane	7.94	97.0	1029	.18	UG/L	92
21)	C165 Benzene	8.58	78.0	5003	.31	UG/L	100
22)	C150 Trichloroethene	9.85	130.0	1502	.29	UG/L	81
23)	C140 1,2-Dichloropropane	10.28	63.0	651	.12	UG/L	100
27)	C172 Trans-1,3-Dichloropropen	13.39	75.0	889	.16	UG/L	100
28)	C160 1,1,2-Trichloroethane	13.82	97.0	709	.17	UG/L	91
31)	*CI20 D5-Chlorobenzene	16.52	117.0	432331	50.00	UG/L	100
32)	CS05 D8-Toluene	12.63	98.0	602186	48.83	UG/L	93
34)	C230 Toluene	12.79	92.0	2628	.32	UG/L	96
36)	C220 Tetrachloroethene	14.21	164.0	713	.19	UG/L	90
38)	C240 Ethylbenzene	17.01	106.0	768	.17	UG/L	91
39)	CXXX Xylene (-p)	17.40	106.0	980	.18	UG/L	98
40)	CXXX Xylenes (o)	18.59	106.0	514	.08	UG/L	95
41)	C245 Styrene	18.64	104.0	1934	.20	UG/L	100
43)	CS10 Bromofluorobenzene (BFB)	20.21	95.0	279234	52.20	UG/L	79
44)	C335 Dichlorobenzene (m)	23.79	146.0	1994	.24	UG/L	100
45)	C340 Dichlorobenzene (p)	24.11	146.0	2322	.27	UG/L	100
46)	C350 Dichlorobenzene (o)	25.34	146.0	1705	.19	UG/L	100
47)	C250 Xylene (Total)	17.40	106.0	980	.16	UG/L	93

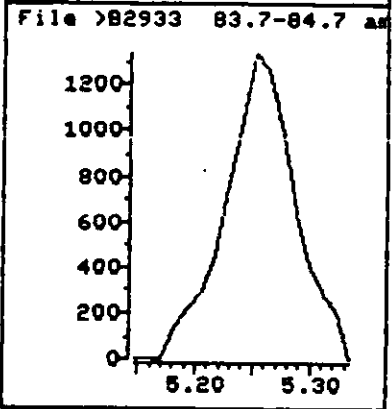
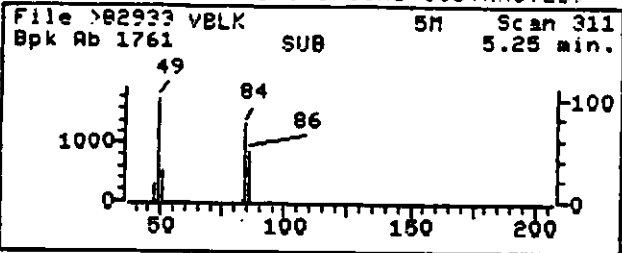
* Compound is ISTD

000229

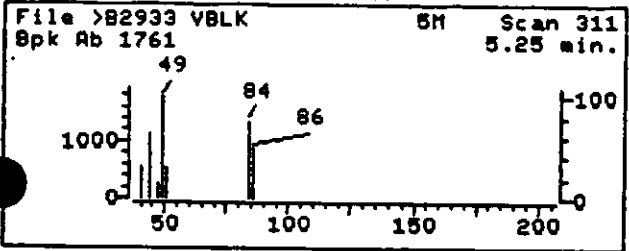
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



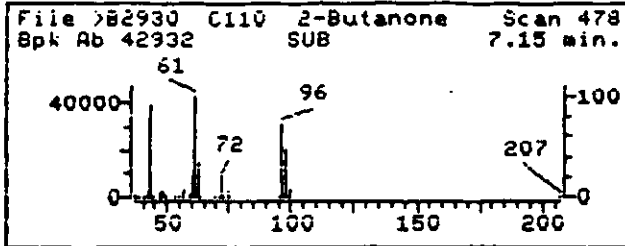
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Name: VBLK 01 5ML
Misc: U2, CH3, 5UL IS
Quant Time: 911010 12:02
Injected at: 911010 11:32

Quant Output File: ^B2933::QT

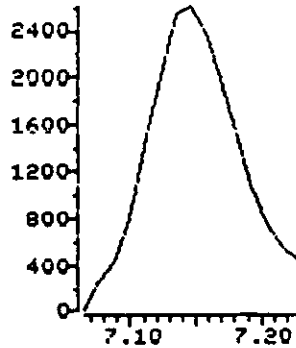
Quant ID File: VQHID2::\$\$
Last Calibration: 911010 11:39

Compound No: 9
Compound Name: C030 Methylene Chloride
Scan Number: 311
Retention Time: 5.25 min.
Quant Ion: 84.0
Area: 5661
Concentration: 2.14 UG/L
q-value: 86

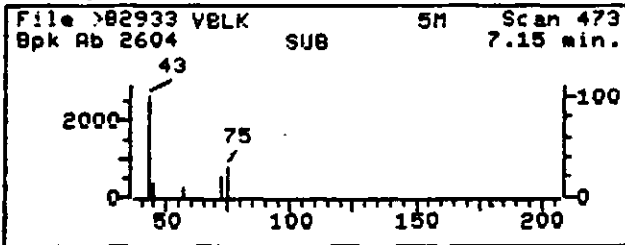
REFERENCE STANDARD SPECTRUM



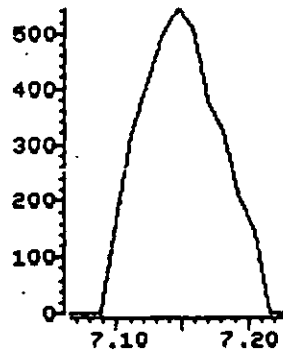
File >B2933 42.7-43.7 am



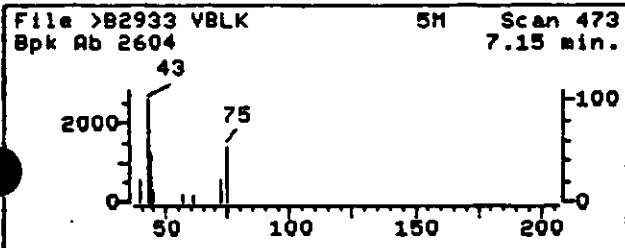
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



File >B2933 71.7-72.7 am



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2933::D6
Name: UBLK01 5ML
Misc: U2, CH3, 5UL IS
Quant Time: 911010 12:02
Injected at: 911010 11:32

Quant Output File: ^B2933::QT

Quant ID File: UOHID2::\$\$
Last Calibration: 911010 11:39

Compound No: 15
Compound Name: C110 2-Butanone
Scan Number: 473
Retention Time: 7.15 min.
Quant Ion: 72.0
Area: 2466
Concentration: 3.01 UG/L
q-value: 97

Data Reduced by : JD Date: 10/10/91
Data Reviewed by : NE Date: 10/10/91
10/14/91 1345

Data File: >B2933

Enseco TIC Report (page 1)

Sample: UBLK01 5ML
Conditions: U2, CH3, 5UL IS

Run Factor: 1.00
Analyst: NORA

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
1	09.			5.3	00-00-0	<i>solvent front</i>

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2933

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

% Moisture: not dec. _____ Date Analyzed: 10/10/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND 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	2	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: BLANK02
Sample wt/vol: 4.0 (g/mL) ML Lab File ID: F2828
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 10/09/91
Column (pack/cap) CAP Dilution Factor: 0.80

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

* - Compound is an Internal Standard
 C - Compound Deleted

624-A

L- 100691V6A
 R- 100991V6A

7F2828

mecl2

Reduced by: JD Date: 100991
 Prepared by: NO Date: 101491

Data File: F2828
 Page: 1

Enseco Mass Spectrometry
 Target Compound Data Summary Sheet

Sample: UBLK02 5ML
 Disc: 06, CH02, 5UL 15/S
 Injected: 10/09/91 11:16
 Analyst: KERYLYNN
 D File: MOBID6
 Quant list threshold: 1.00

Units: UG/L
 Run Factor: 1.000
 Surrogate Vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
S15 D4-1,2-dichloroethane	.2500	.2540	102	76 114
S05 D8-Toluene	.2500	.2425	97.0	88 110
S10 Bromofluorobenzene	.2500	.2474	99.0	86 115

Target Compounds: MOBID6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/L	
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
		BDL	C045 1,1-Dichloroethene
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
256	3.449	3.4	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethene
		BDL	C055 Cis-1,2-dichloroethene
		BDL	CXXX Methyl tert-butyl ether
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
		BDL	C110 2-Butanone
		BDL	C125 Vinyl Acetate
		BDL	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
		BDL	C160 1,1,2-Trichloroethane

000235

Scan #	Concentration Quant list UG/L	Sample UG/L	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
882	2.742 Sing	2.7	C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

Diagnostic Quant Report

Sta File: >F2828::D6 Injected at: 11:16 10/09/91
 Sample ID : 11:43 10/09/91
 Q File : MOBID6::MT Calibrated : 09:37 08/14/91

		- R.T. Info -						
Compound		Pred	Found	Dif	Ion	Area	PF	Conc.
1) *C101	Bromochloromethane	7.33	7.29	.04	128.0	75116	1.0000	50.00
2)	C010 Chloromethane	2.72	0.00	--	50.0	0	1.3236	0.00
3)	C020 Vinyl Chloride	2.86	0.00	--	62.0	0	1.3500	0.00
4)	C015 Bromomethane	3.26	0.00	--	94.0	0	1.2156	0.00
5)	C025 Chloroethane	3.39	0.00	--	64.0	0	.5022	0.00
6)	C045 1,1-Dichloroethene	4.36	0.00	--	96.0	0	1.5071	0.00
7)	C035 Acetone	4.42	0.00	--	43.0	0	.1843	0.00
8)	C040 Carbon Disulfide	4.66	0.00	--	76.0	0	4.4340	0.00
9)	C030 Methylene Chloride	5.00	4.99	.01	84.0	9327	1.7999	3.45
0)	CXXX Tert-butyl alcohol	5.14	0.00	--	59.0	0	.0770	0.00
1)	C053 Trans-1,2-dichloroet	5.38	0.00	--	96.0	0	1.8441	0.00
2)	C055 Cis-1,2-dichloroethe	6.90	0.00	--	96.0	0	1.9832	0.00
3)	CXXX Methyl tert-butyl et	5.38	0.00	--	73.0	0	3.1722	0.00
4)	C050 1,1-Dichloroethane	6.00	0.00	--	63.0	0	3.5329	0.00
5)	C060 Chloroform	7.44	0.00	--	83.0	0	3.7902	0.00
6)	C065 1,2-Dichloroethane	8.46	0.00	--	62.0	0	2.1737	0.00
7)	C110 2-Butanone	6.92	0.00	--	72.0	0	.1091	0.00
8)	CS15 D4-1,2-dichloroethan	8.32	8.34	.02	65.0	119894	1.5708	50.81
9)	*C110 1,4-Difluorobenzene	9.23	9.19	.04	114.0	403435	1.0000	50.00
0)	C125 Vinyl Acetate	6.07	0.00	--	43.0	0	.6048	0.00
1)	C115 1,1,1-Trichloroethan	7.76	0.00	--	97.0	0	.5974	0.00
2)	C120 Carbon Tetrachloride	8.06	0.00	--	117.0	0	.4898	0.00
3)	C165 Benzene	8.45	8.43	.01	78.0	1105	.9908	.14
4)	C150 Trichloroethene	9.71	0.00	--	130.0	0	.4258	0.00
5)	C140 1,2-Dichloropropane	10.19	0.00	--	63.0	0	.4057	0.00
6)	C130 Bromodichloromethane	10.81	0.00	--	83.0	0	.6001	0.00
27)	C175 2-Chloroethylvinylet	11.53	0.00	--	63.0	0	.1776	0.00
28)	C143 Cis-1,3-Dichloroprop	11.86	0.00	--	75.0	0	.5829	0.00
29)	C172 Trans-1,3-dichloropr	13.25	0.00	--	75.0	0	.4482	0.00
30)	C160 1,1,2-Trichloroethan	13.73	0.00	--	97.0	0	.2952	0.00
31)	C155 Dibromochloromethane	14.76	0.00	--	129.0	0	.4676	0.00
2)	C180 Bromoform	18.92	0.00	--	173.0	0	.2627	0.00
3)	*C120 D5-Chlorobenzene	16.44	16.44	.00	117.0	322976	1.0000	50.00
4)	CS05 D8-Toluene	12.55	12.52	.03	98.0	406752	1.2981	48.51
4)D	CS05 D8-Toluene	12.55	12.87	.32	98.0	1520	1.2981	.18
5)	C205 4-Methyl-2-pentanone	12.31	12.27	.03	43.0	5738	.3240	2.74
6)	C230 Toluene	12.70	12.71	.00	92.0	2358	.9048	.40
7)	C210 2-Hexanone	14.51	0.00	--	43.0	0	.2131	0.00
8)	C220 Tetrachloroethene	14.12	0.00	--	164.0	0	.4676	0.00
9)	C235 Chlorobenzene	16.51	16.52	.01	112.0	3421	1.0869	.49
0)	C240 Ethylbenzene	16.90	17.26	.36	106.0	1951	.5461	.55
1)	CXXX Xylenes (p)	17.26	17.26	.00	106.0	1951	.6696	.45
2)	CXXX Xylenes (o)	18.46	0.00	--	106.0	0	.6363	0.00
3)	C245 Styrene	18.50	18.51	.01	104.0	3990	1.1149	.55
4)	C225 1,1,2,2-Tetrachloroe	20.67	20.68	.01	83.0	2048	.5730	.55
5)	CS10 Bromofluorobenzene	20.09	20.11	.02	95.0	228063	.7136	49.47
6)	C335 Dichlorobenzene (m)	23.64	23.70	.06	146.0	3302	.9378	.55
6)D	C335 Dichlorobenzene (m)	23.64	24.00	.36	146.0	3681	.9378	.61
7)D	C340 Dichlorobenzene (p)	23.95	23.70	.26	146.0	3302	.8481	.60
7)	C340 Dichlorobenzene (o)	23.95	24.00	.04	146.0	3681	.8481	.67

000237

Internal Standard Comparison

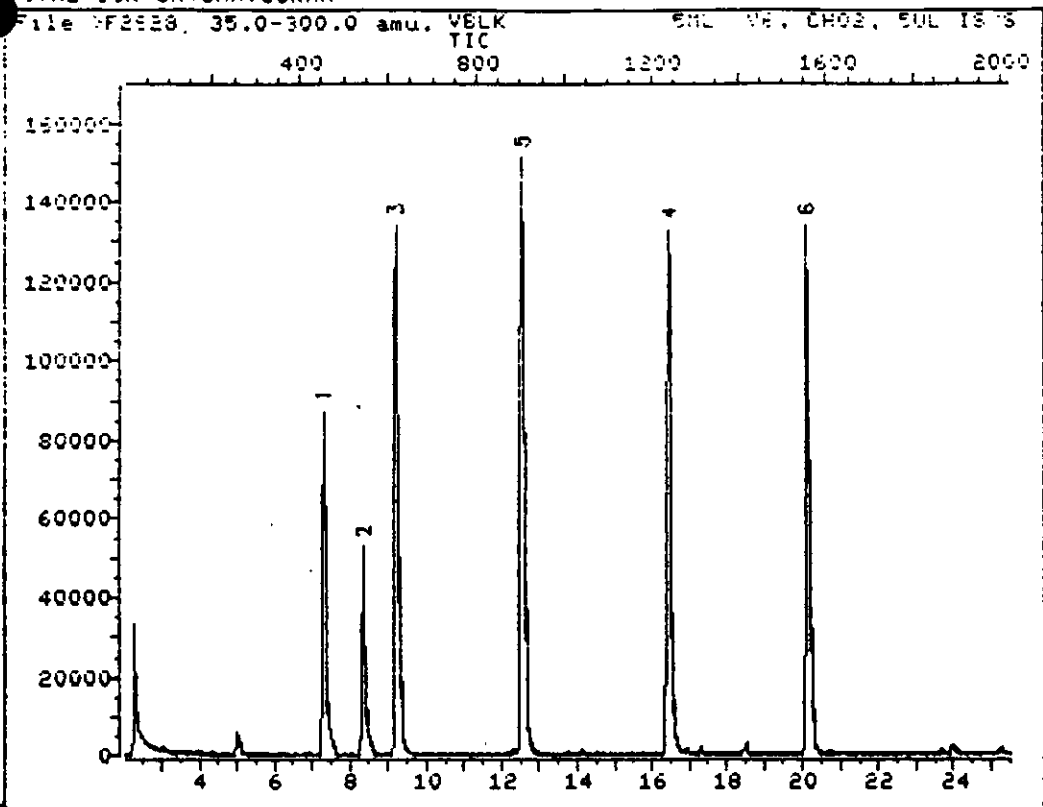
Sample: F2828 Date injected: 10-09-91 Standard: F2827 ✓

Internal Standard	Sample Area	Std Area	%
101 Bromochloromethane	75116	75510	99.5
110 1,4-Difluorobenzene	403435	407259	99.1
120 05-Chlorobenzene	322976	308421	104.7

% = (Sample Area/Std Area)*100

* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2828::D6
Name: UBLK02 5ML
Misc: U6, CH02, 5UL IS/S

Quant Output File: ^F2828::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911009 10:28

Operator ID: KERYLYNN
Quant Time : 911009 11:43
Injected at: 911009 11:16

QUANT REPORT

Page 1

Operator ID: KERYLYNN
 Output File: F2828::D7
 Data File: F2828::D6
 Name: UBLK 5ML
 Misc: U6, CH02, SUL ISAS

Quant Rev: 7 Quant Time: 911009 11:43
 Injected at: 911009 11:16
 Dilution Factor: 1.00000
 Instrument ID: U6

D File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO

Last Calibration: 910814 09:37

Last Cal Time: 911009 10:29

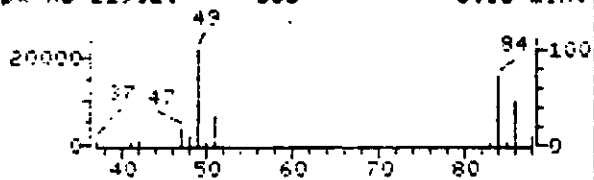
Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.29	128.0		75116	50.00	UG/L	68
9) C030 Methylene Chloride	4.99	84.0		9327	3.45	UG/L	85
18) CS15 D4-1,2-dichloroethane	8.34	65.0		119894	50.81	UG/L	89
19) *CI10 1,4-Difluorobenzene	9.19	114.0		403435	50.00	UG/L	100
23) C165 Benzene	8.43	78.0		1105	.138	UG/L	100
33) *CI20 D5-Chlorobenzene	16.44	117.0		322976	50.00	UG/L	100
34) CS05 D8-Toluene	12.52	98.0		406752	48.51	UG/L	93
35) C205 4-Methyl-2-pentanone	12.27	43.0		5738	2.74	UG/L	95
36) C230 Toluene	12.71	92.0		2358	.403	UG/L	75
39) C235 Chlorobenzene	16.52	112.0		3421	.487	UG/L	85
40) C240 Ethylbenzene	17.26	106.0		1951	.553	UG/L	78
41) CXXX Xylenes (p)	17.26	106.0		1951	.451	UG/L	94
43) C245 Styrene	18.51	104.0		3990	.554	UG/L	100
44) C225 1,1,2,2-Tetrachloroethane	20.68	83.0		2048	.553	UG/L	87
45) CS10 Bromofluorobenzene	20.11	95.0		228063	49.47	UG/L	66
46) C335 Dichlorobenzene (m)	23.70	146.0		3302	.545	UG/L	100
47) C340 Dichlorobenzene (p)	24.00	146.0		3681	.672	UG/L	100
48) C350 Dichlorobenzene (o)	25.26	146.0		3675	.676	UG/L	100
49) C250 Xylenes (total)	17.26	106.0		1646	.400	UG/L	60

* Compound is ISTD

000240

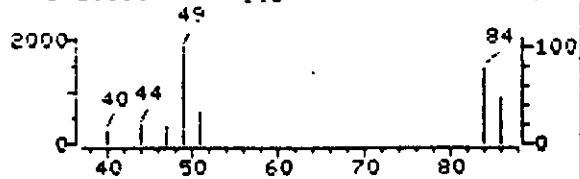
REFERENCE STANDARD SPECTRUM

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Bpk Ab 21952. SUB 5.03 min.



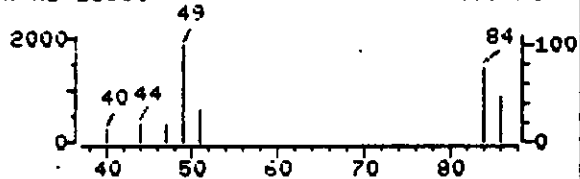
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >F2828 VBLK 5M Scan 256
Bpk Ab 1860. SUB 4.99 min.



SAMPLE SPECTRUM (UNALTERED)

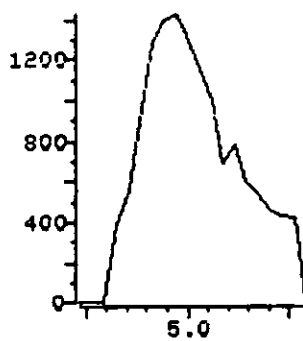
File >F2828 VBLK 5M Scan 256
Bpk Ab 1860. SUB 4.99 min.



File >F2828 49.7-49.7 am



File >F2828 83.7-84.7 am



Data File: >F2828::D6
Name: VBLK02 5ML
Misc: U6, CH02, 5UL IS/S
Quant Time: 911009 11:43
Injected at: 911009 11:16
Last Qcal Time: 911009 10:28

Quant Output File: ^F2828::D7
Instrument ID: U6

Quant ID File: MOBID6::MT
Last Calibration: 910814 09:37

Compound No : 9
Compound Name : C030 Methylene Chloride
Scan Number : 256
Retention Time: 4.99 min.
Quant Ion : 84.0
Area :- 9327
Concentration : 3.45 UG/L
q-value : --85

Data Reduced by : JG Date: 100991
Data Reviewed by : M Date: 0149

Data File: >F2828

Enseco TIC Report (page 1)

Sample: UBLK 02 SML
Conditions: U6, CH02, 5UL IS/S

Run Factor: 1.00
Analyst: KERYLYNN

# Scan	Q	C	Concentration In Sample (UG/L)	CAS #	Compound
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no unknowns

000242

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: ENSECO-ERCO Contract: _____
 Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK03
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2934
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 10/12/91
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	620	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
110-75-8	2-Chloroethylvinylether	1200	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK03
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2934
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/12/91
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

EX40-5 UICCT-1-V014

R-101291-V6A

2/29/34

CLEAN

N/C

Entered by: M
VE

Date: 10/5/91
Date: 10/14/91

Data File: 2091
Page: 1

Enseco Mass Spectrometry
Target Compound Data Summary Sheet

VBLK 03
M810/23/a1

Sample: MEDH BUL FUL
Ref: M6 EH01 FULIS 1000L MEDH LOT# H7323
Injected: 10/12/91 16:30
Analyst: KERYLYNN
Data File: M8106
Quant List threshold: 1.00

Units: UG/KG
Gain Factor: 125.000
Surrogate Vol: .500

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
S15 D4-1,2-dichloroethane	25.00	25.64	103	70 121
S05 D8-Toluene	25.00	25.99	104	81 117
S10 Bromofluorobenzene	25.00	25.81	103	74 121

Target Compounds: MOBID6

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/KG	
	BDL		C010 Chloromethane
	BDL		C020 Vinyl Chloride
	BDL		C015 Bromomethane
	BDL		C025 Chloroethane
	BDL		C045 1,1-Dichloroethene
	BDL		C035 Acetone
	BDL		C040 Carbon Disulfide
	BDL		C030 Methylene Chloride
	BDL		CXXX Tert-butyl alcohol
	BDL		C053 Trans-1,2-dichloroethene
	BDL		C055 Cis-1,2-dichloroethene
	BDL		CXXX Methyl tert-butyl ether
	BDL		C050 1,1-Dichloroethane
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
	BDL		C110 2-Butanone
	BDL		C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
	BDL		C150 Trichloroethene
	BDL		C140 1,2-Dichloropropane
	BDL		C130 Bromodichloromethane
	BDL		C175 2-Chloroethylvinylether
	BDL		C143 Cis-1,3-Dichloropropene
	BDL		C172 Trans-1,3-dichloropropene
	BDL		C160 1,1,2-Trichloroethane

000245

Scan #	Concentration UG/L	Sample UG/KG	Compound
	BDL		C155 Dibromochloromethane
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-pentanone
	BDL		C230 Toluene
	BDL		C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylenes (total)

Diagnostic Quant Report

File: 92934::D6 Injected at: 15:16 10 12 91
 Sample : 17:03 10/12/91
 File : 009106::MT Calibrated : 09:37 08-14-91

		- P.T. Info -						
Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C101	Bromochloromethane	7.24	7.21	.03	128.0	60375	1.0000	50.00
2) C010	Chloromethane	2.67	0.00	--	50.0	0	1.3122	0.00
3) C030	Vinyl Chloride	2.81	0.00	--	62.0	0	1.3229	0.00
4) C015	Bromomethane	3.20	0.00	--	94.0	0	1.2706	0.00
5) C025	Chloroethane	3.32	0.00	--	64.0	0	.8056	0.00
6) C045	1,1-Dichloroethene	4.30	0.00	--	96.0	0	1.5349	0.00
7) C035	Acetone	4.35	0.00	--	43.0	0	.3024	0.00
8) C040	Carbon Disulfide	4.59	0.00	--	76.0	0	4.2106	0.00
9) C030	Methylene Chloride	4.92	0.00	--	84.0	0	1.7841	0.00
0) CXXX	Tert-butyl alcohol	5.08	0.00	--	59.0	0	.0770	0.00
1) C053	Trans-1,2-dichloroet	5.29	0.00	--	96.0	0	1.8974	0.00
2) C055	Cis-1,2-dichloroethe	6.81	0.00	--	96.0	0	2.0428	0.00
3) CXXX	Methyl tert-butyl et	5.30	0.00	--	73.0	0	3.2861	0.00
4) C050	1,1-Dichloroethane	5.91	0.00	--	63.0	0	3.5014	0.00
5) C060	Chloroform	7.35	0.00	--	83.0	0	3.9818	0.00
6) C065	1,2-Dichloroethane	8.37	0.00	--	62.0	0	2.3840	0.00
7) C110	2-Butanone	6.84	0.00	--	72.0	0	.1733	0.00
8) C015	04-1,2-dichloroethan	8.24	8.24	.00	65.0	116107	1.8749	51.29
9) *C110	1,4-Difluorobenzene	9.11	9.09	.02	114.0	380452	1.0000	50.00
0) C125	Vinyl Acetate	5.98	0.00	--	43.0	0	.4441	0.00
1) C115	1,1,1-Trichloroethan	7.69	0.00	--	97.0	0	.5648	0.00
2) C120	Carbon Tetrachloride	7.99	0.00	--	117.0	0	.4717	0.00
3) C165	Benzene	8.35	0.00	--	78.0	0	1.0551	0.00
4) C150	Trichloroethene	9.63	0.00	--	130.0	0	.4207	0.00
5) C140	1,2-Dichloropropane	10.11	0.00	--	63.0	0	.4143	0.00
6) C130	Bromodichloromethane	10.72	0.00	--	83.0	0	.6104	0.00
7) C175	2-Chloroethylvinylet	11.44	0.00	--	63.0	0	.2031	0.00
8) C143	Cis-1,3-Dichloroprop	11.77	0.00	--	75.0	0	.5792	0.00
9) C172	Trans-1,3-dichloropr	13.18	0.00	--	75.0	0	.4136	0.00
0) C160	1,1,2-Trichloroethan	13.64	0.00	--	97.0	0	.3355	0.00
1) C155	Dibromochloromethane	14.68	0.00	--	129.0	0	.4975	0.00
2) C180	Bromoform	18.86	0.00	--	173.0	0	.3012	0.00
3) *C120	D5-Chlorobenzene	16.32	16.30	.02	117.0	302614	1.0000	50.00
4) C005	D8-Toluene	12.41	12.40	.01	98.0	371562	1.1812	51.98
5) C205	4-Methyl-2-pentanone	12.18	0.00	--	43.0	0	.3987	0.00
6) C230	Toluene	12.58	0.00	--	92.0	0	.8679	0.00
7) C210	2-Hexanone	14.38	0.00	--	43.0	0	.2733	0.00
8) C220	Tetrachloroethene	13.99	0.00	--	164.0	0	.4248	0.00
9) C235	Chlorobenzene	16.37	0.00	--	112.0	0	1.0055	0.00
0) C240	Ethylbenzene	16.77	0.00	--	106.0	0	.5060	0.00
1) CXXX	Xylenes (p)	17.14	0.00	--	106.0	0	.6191	0.00
2) CXXX	Xylenes (o)	18.31	0.00	--	106.0	0	.6030	0.00
3) C245	Styrene	18.37	0.00	--	104.0	0	1.0452	0.00
4) C225	1,1,2,2-Tetrachloroe	20.53	0.00	--	83.0	0	.6267	0.00
5) C010	Bromofluorobenzene	19.95	19.94	.01	95.0	234051	.7490	51.63
6) C335	Dichlorobenzene (m)	23.51	0.00	--	146.0	0	.8780	0.00
7) C340	Dichlorobenzene (p)	23.82	0.00	--	146.0	0	.7971	0.00
8) C350	Dichlorobenzene (o)	25.06	0.00	--	146.0	0	.8260	0.00
9) C250	Xylenes (total)	18.31	0.00	--	106.0	0	.5927	0.00

000247

Internal Standard Comparison

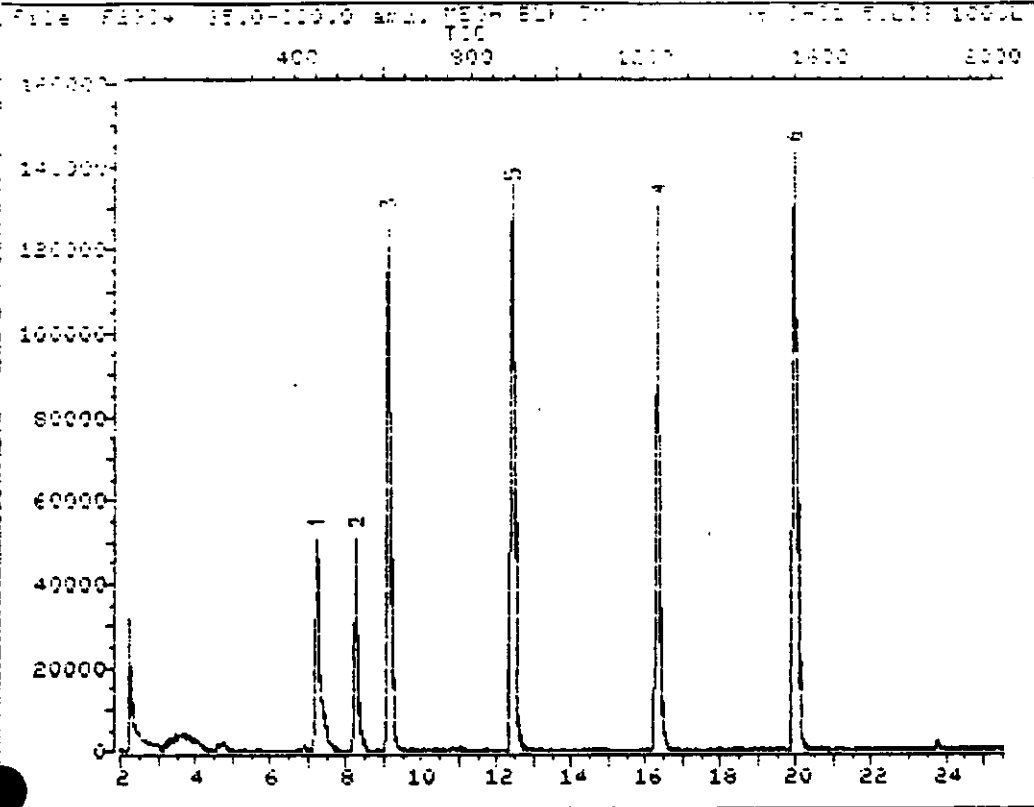
Index: 52034 Date injected: 10-12-81 Standard: 120920

Internal Standard	Sample Area	Std Area	%
101 Bromochloromethane	60375	67559	89.4
110 1,4-Difluorobenzene	330452	320644	93.9
120 05-Chlorobenzene	302614	313198	96.6

% = (Sample Area / Std Area) * 100

← Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2934::D6
Name: MEQH BLK 5ML
Misc: U6 CH01 5ULIS 100UL MEQH LOT# AY323

Quant Output File: ^F2934::D7
Instrument ID: U6

Id File: MOBID6::MT
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO
Last Calibration: 910814 09:37 Last Qcal Time: 911012 12:59

Operator ID: KERYLYNN
Quant Time : 911012 17:03
Injected at: 911012 16:36

000249

QUANT REPORT

Page 1

Method ID: MSP7LVNH
 Method File: F09741:07
 Data File: F09741:06
 Sample: MEOH BLK 5ML
 Vial: U6 CH01 5ULIS 100UL MEOH LOT# AY323

Quant Row: 1 Quant Time: 911012 12:03
 Injected at: 911012 15:56
 Dilution Factor: 1.00000
 Instrument ID: 076

0 File: M08106:1MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 EPDOWENSECO

Last Calibration: 910814 09:37

Last Qual Time: 911012 12:00

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.21	128.0	60375	50.00	UG/L	68
18)	CS15 D4-1,2-dichloroethane	8.24	65.0	116107	51.29	UG/L	83
19)	*CI10 1,4-Difluorobenzene	9.09	114.0	380452	50.00	UG/L	100
73)	*CI20 D5-Chlorobenzene	16.30	117.0	302614	50.00	UG/L	100
34)	CS05 D8-Toluene	12.40	98.0	371562	51.98	UG/L	91
45)	CS10 Bromofluorobenzene	19.94	95.0	234051	51.63	UG/L	73

* Compound is ISTD

000250

Data Reduced by : KK Date: 10/14/91
Data Reviewed by : Date:

Data File: >F2934

Enseco LLC Report (page 1)

Sample: MEUH BLK ⁰³ 5ML Run Factor: 125.
Conditions: 06 CHUI 5ULIS 100UL MEUH LUI* Analyst: KERYLYNN

Concentration
In Sample

Scan W L (UG/KG) CAS # Compound

no conclusions

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: BLANK04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B3023

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

% Moisture: not dec. 0 Date Analyzed: 10/16/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	1200	U
74-83-9-----	Bromomethane	1200	U
75-01-4-----	Vinyl Chloride	1200	U
75-00-3-----	Chloroethane	1200	U
75-09-2-----	Methylene Chloride	620	U
67-64-1-----	Acetone	1200	U
75-15-0-----	Carbon Disulfide	620	U
75-35-4-----	1,1-Dichloroethene	130	J
75-34-3-----	1,1-Dichloroethane	130	J
540-59-0-----	1,2-Dichloroethene (total)	620	U
67-66-3-----	Chloroform	620	U
107-06-2-----	1,2-Dichloroethane	620	U
78-93-3-----	2-Butanone	500	J
71-55-6-----	1,1,1-Trichloroethane	280	J
56-23-5-----	Carbon Tetrachloride	620	U
108-05-4-----	Vinyl Acetate	1200	U
75-27-4-----	Bromodichloromethane	620	U
78-87-5-----	1,2-Dichloropropane	620	U
10061-01-5-----	cis-1,3-Dichloropropene	620	U
79-01-6-----	Trichloroethene	620	U
124-48-1-----	Dibromochloromethane	620	U
79-00-5-----	1,1,2-Trichloroethane	620	U
71-43-2-----	Benzene	620	U
10061-02-6-----	trans-1,3-Dichloropropene	620	U
110-75-8-----	2-Chloroethylvinylether	1200	U
75-25-2-----	Bromoform	620	U
108-10-1-----	4-Methyl-2-Pentanone	1200	U
591-78-6-----	2-Hexanone	1200	U
127-18-4-----	Tetrachloroethene	620	U
79-34-5-----	1,1,2,2-Tetrachloroethane	620	U
108-88-3-----	Toluene	620	U
108-90-7-----	Chlorobenzene	620	U
100-41-4-----	Ethylbenzene	620	U
100-42-5-----	Styrene	620	U
1330-20-7-----	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: ENSECO-ERCO Contract: _____
Lab Code: EERCO Case No.: 10147 SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: BLANK04
Sample wt/vol: 4.0 (g/mL) G Lab File ID: B3023
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 10/16/91
Column (pack/cap) CAP Dilution Factor: 1.0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

* - Compound is an Internal Standard
 0 - Compound Qualified

NC

624-L-101491V2A
 R-101691V2A

8240-S L-10159N
 R-10169N24

Reduced by: JK
 Reviewed by: JK

Date: 10/16/91
 Date: 10/17/91

Data file: 65025
 Page: 1

Enseco GLMs

Target Compound Data Summary Sheet

7B3023

1,1-Dichloroethane
 1,1-Dichloroethane
 2-But.
 1,1,1-Trichloro

Sample: ⁰⁴ UBLK MEOH 5ML
 Misc : 02 CH# 16 5UL16
 Injected : 10/16/91 11:24
 Analyst: NORA
 ID File: VQAID2
 Quant list threshold: 1.00

Units: UG/L
 Run Factor: 1.000
 Surrogate vol: .005

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	.2500	.2586	103	76 114
CS05 D8-Toluene	.2500	.2404	96.2	88 110
CS10 Bromofluorobenzene (BFB)	.2500	.2601	104	86 115

Target Compounds: VQAID2

Scan #	Concentration Quant List UG/L	Sample UG/L	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
256	1.058	1.058	C045 1,1-Dichloroethene
263	1.786	1.786	C035 Acetone
		BDL	C040 Carbon Disulfide
		BDL	C030 Methylene Chloride
		BDL	C053 Trans-1,2-Dichloroethene
		BDL	C055 cis-1,2-Dichloroethene
389	1.065	1.065	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
		BDL	C065 1,2-Dichloroethane
472	3.965	3.965	C110 2-Butanone
		BDL	C125 Vinyl Acetate
539	2.274	2.274	C115 1,1,1-Trichloroethane
		BDL	C120 Carbon Tetrachloride
		BDL	C165 Benzene
		BDL	C150 Trichloroethene
		BDL	C140 1,2-Dichloropropane
		BDL	C130 Bromodichloromethane
		BDL	C175 2-Chloroethylvinylether
		BDL	C143 Cis-1,3-Dichloropropen
		BDL	C172 Trans-1,3-Dichloropropen
		BDL	C160 1,1,2-Trichloroethane
		BDL	C155 Dibromochloromethane
		BDL	C180 Bromoform

000254

Sample: UBLK

5ML

Scan #	Concentration		Compound
	Quant list	Sample	
	UG/L	UG/L	
	BDL		C205 4-Methyl-2-Pentanone
	BDL		C230 Toluene
1115	2.076 5ng	2.446	C210 2-Hexanone
	BDL		C220 Tetrachloroethene
	BDL		C235 Chlorobenzene
	BDL		C240 Ethylbenzene
	BDL		CXXX Xylene (p)
	BDL		CXXX Xylenes (o)
	BDL		C245 Styrene
	BDL		C225 1,1,2,2-Tetrachloroethan
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
	BDL		C250 Xylene (Total)

Diagnostic Quant Report

Date File: B5023:DU Injected at: 11:24 10/16/91
 Quantid : 11:54 10/16/91
 ID File : 00A102:33 Calibrated : 11:13 10/16/91

- R.T. Info -

Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C101	Bromochloromethane	7.50	7.53	.04	128.0	134731	1.0000	50.00
2) C010	Chloromethane	3.20	0.00	--	50.0	0	.3920	0.00
3) C020	Vinyl Chloride	3.33	0.00	--	62.0	0	.8211	0.00
4) C015	Bromomethane	3.76	0.00	--	94.0	0	.6777	0.00
5) C025	Chloroethane	3.94	0.00	--	64.0	0	.5346	0.00
6) C045	1,1-Dichloroethene	4.80	4.66	.15	96.0	3243	1.1377	1.06
7) C035	Acetone	4.74	4.74	.01	43.0	1924	.3999	1.79
7)D C035	Acetone	4.74	5.17	.43	43.0	1284	.3999	1.19
8) C040	Carbon Disulfide	5.03	4.96	.07	76.0	1181	4.7412	.09
9) C030	Methylene Chloride	5.28	5.28	.01	84.0	1690	.7264	.86
10) C053	Trans-1,2-Dichloroe	5.66	0.00	--	96.0	0	1.9143	0.00
11) C055	cis-1,2-Dichloroeth	7.14	0.00	--	96.0	0	1.9601	0.00
12) C050	1,1-Dichloroethane	6.25	6.21	.04	63.0	10918	3.8038	1.07
13) C060	Chloroform	7.67	7.65	.02	83.0	822	3.4381	.09
14) C065	1,2-Dichloroethane	8.68	0.00	--	62.0	0	2.1786	0.00
15) C110	2-Butanone	7.18	7.18	.00	43.0	9452	.8847	3.96
16) C015	D4-1,2-Dichloroetha	8.54	8.55	.01	65.0	207423	1.4884	51.72
17) *C110	1,4-Difluorobenzene	9.37	9.41	.05	114.0	489033	1.0000	50.00
18) C125	Vinyl Acetate	6.34	0.00	--	43.0	0	1.0500	0.00
19) C115	1,1,1-Trichloroetha	8.00	7.96	.04	97.0	13392	.6021	2.27
20) C120	Carbon Tetrachlorid	8.31	7.98	.33	117.0	1214	.5024	.25
21) C165	Benzene	8.66	8.65	.01	78.0	5154	1.4215	.37
22) C150	Trichloroethene	9.94	9.93	.01	130.0	1272	.4607	.28
23) C140	1,2-Dichloropropane	10.39	0.00	--	63.0	0	.4667	0.00
24) C130	Bromodichloromethan	11.01	0.00	--	83.0	0	.6293	0.00
25) C175	2-Chloroethylvinyle	11.77	0.00	--	63.0	0	.1968	0.00
26) C143	Cis-1,3-Dichloropro	12.07	0.00	--	75.0	0	.6096	0.00
27) C172	Trans-1,3-Dichlorop	13.47	0.00	--	75.0	0	.4477	0.00
28) C160	1,1,2-Trichloroetha	13.93	0.00	--	97.0	0	.3175	0.00
29) C155	Dibromochloromethan	14.97	0.00	--	129.0	0	.4505	0.00
30) C180	Bromoform	19.20	0.00	--	173.0	0	.3234	0.00
31) *C120	D5-Chlorobenzene	16.54	16.59	.05	117.0	346793	1.0000	50.00
32) C005	D8-Toluene	12.70	12.72	.03	98.0	466756	1.3998	48.08
33) C205	4-Methyl-2-Pentanon	12.46	12.51	.05	43.0	3400	.6298	.78
34) C230	Toluene	12.86	12.90	.04	92.0	2663	.9983	.38
35) C210	2-Hexanone	14.67	14.70	.03	43.0	4730	.3350	2.04
36) C220	Tetrachloroethene	14.28	14.30	.02	164.0	801	.4801	.24
37) C235	Chlorobenzene	16.68	0.00	--	112.0	0	1.1890	0.00
38) C240	Ethylbenzene	17.08	17.46	.38	106.0	2356	.5596	.61
39) CXXX	Xylene (p)	17.46	17.46	.00	106.0	2356	.6831	.50
40) CXXX	Xylenes (o)	18.65	18.64	.01	106.0	1187	.7572	.23
41) C245	Styrene	18.71	18.71	.00	104.0	3647	1.1752	.45
42) C225	1,1,2,2-Tetrachloro	20.89	20.86	.03	83.0	3883	.9905	.57
43) C010	Bromofluorobenzene	20.29	20.26	.03	95.0	223109	.6183	52.03
44) C335	Dichlorobenzene (m	23.93	23.84	.09	146.0	4227	1.1423	.53
44)D C335	Dichlorobenzene (m	23.93	24.16	.23	146.0	4926	1.1423	.62
45)D C340	Dichlorobenzene (p	24.25	23.84	.41	146.0	4227	1.1531	.53
45) C340	Dichlorobenzene (p	24.25	24.16	.09	146.0	4926	1.1531	.82

000258

Internal Standard Comparison

Sample: B3025 Date injected: 10/16/91 Standard: B3022 ✓

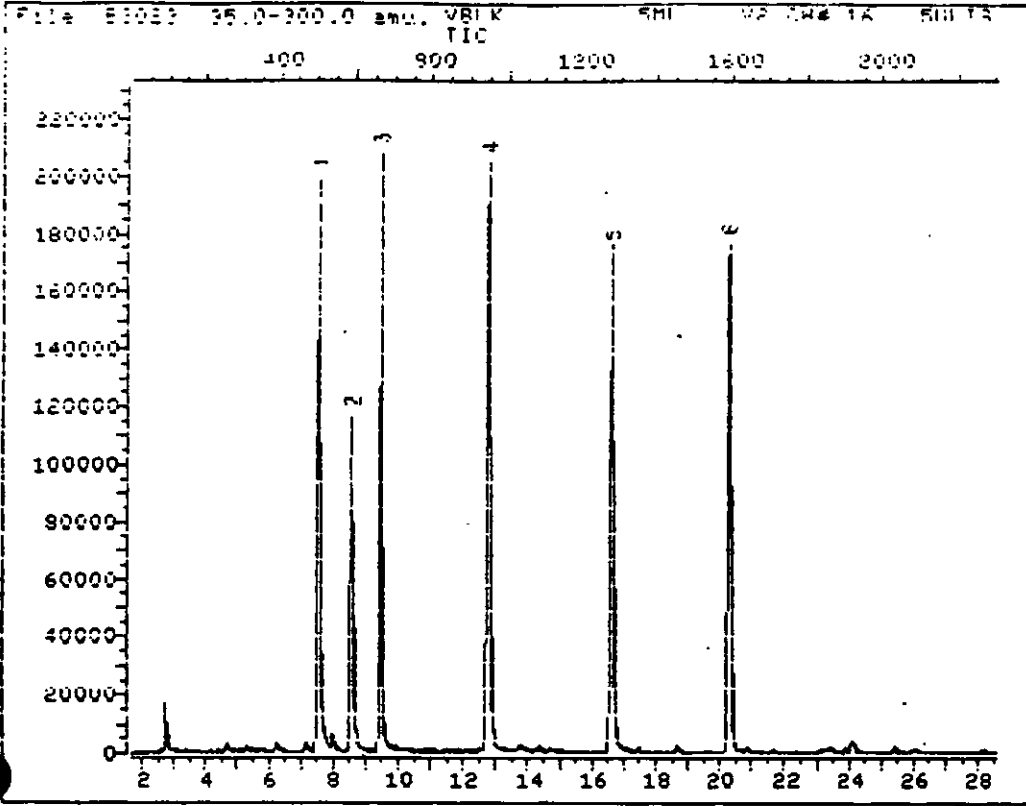
Internal Standard	Sample Area	Std Area	%
C101 Bromochloromethane	134731	121162	111.2
C110 1,4-Difluorobenzene	489033	462273	105.8
C120 O5-Chlorobenzene	346793	311269	111.4

% = (Sample Area/Std Area)*100

* Area outside limits

000257

TOTAL ION CHROMATOGRAM



Data File: >B3023::DU
Name: UBLK04 5ML
Misc: U2 CH# 16 5ULIS

Quant Output File: >B3023::QT

Id File: UVAID2::\$\$
Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO
Last Calibration: 911016 11:13

Operator ID: NORA
Quant Time: 911016 11:54
Injected at: 911016 11:24

LABOR REPORT

Operator ID: NORA
 Output File: 83023:QT
 Data File: 83023:DU
 Name: UBLK 04 5ML
 Misc: V2 CH# 16 5ULIS

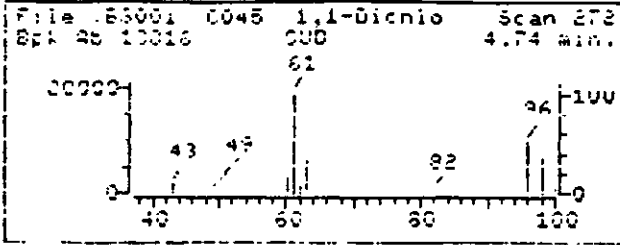
Quant Rev: 0 Quant Time: 911016 11:54
 Injected at: 911016 11:24
 Dilution Factor: 1.00000

ID File: VOAID2:\$\$
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSELD
 Last Calibration: 911016 11:13

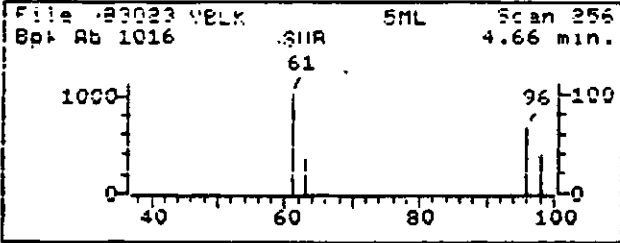
	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.53	128.0		134731	50.00	UG/L	80
6)	U045 1,1-Dichloroethene	4.66	96.0		3243	1.06	UG/L	87
7)	C035 Acetone	4.74	43.0		1924	1.79	UG/L	100
8)	C040 Carbon Disulfide	4.96	76.0		1181	.09	UG/L	100
9)	C030 Methylene Chloride	5.28	84.0		1690	.86	UG/L	84
12)	C050 1,1-Dichloroethane	6.21	63.0		10918	1.07	UG/L	89
13)	C060 Chloroform	7.65	83.0		822	.09	UG/L	86
15)	C110 2-Butanone	7.18	43.0		9452	3.96	UG/L	96
16)	CS15 D4-1,2-Dichloroethane	8.55	65.0		207423	51.72	UG/L	82
17)	*C110 1,4-Difluorobenzene	9.41	114.0		489033	50.00	UG/L	100
18)	C115 1,1,1-Trichloroethane	7.96	97.0		13392	2.27	UG/L	90
20)	C120 Carbon Tetrachloride	7.98	117.0		1214	.25	UG/L	98
21)	C165 Benzene	8.65	78.0		5154	.37	UG/L	100
22)	C150 Trichloroethene	9.93	130.0		1272	.28	UG/L	85
31)	*C120 D5-Chlorobenzene	16.59	117.0		346793	50.00	UG/L	100
32)	CS05 D8-Toluene	12.72	98.0		466756	48.08	UG/L	92
33)	C205 4-Methyl-2-Pentanone	12.51	43.0		3400	.78	UG/L	97
34)	C230 Toluene	12.90	92.0		2663	.38	UG/L	94
35)	C210 2-Hexanone	14.70	43.0		4730	2.04	UG/L	94
36)	C220 Tetrachloroethene	14.30	164.0		801	.24	UG/L	87
38)	C240 Ethylbenzene	17.46	106.0		2356	.61	UG/L	76
39)	CXXX Xylene (p)	17.46	106.0		2356	.50	UG/L	96
40)	CXXX Xylenes (o)	18.64	106.0		1187	.23	UG/L	99
41)	C245 Styrene	18.71	104.0		3647	.45	UG/L	100
42)	C225 1,1,2,2-Tetrachloroethan	20.86	83.0		3883	.57	UG/L	98
43)	CS10 Bromofluorobenzene (BFB)	20.26	95.0		223109	52.03	UG/L	84
44)	C335 Dichlorobenzene (m)	23.84	146.0		4227	.53	UG/L	100
45)	C340 Dichlorobenzene (p)	24.16	146.0		4926	.62	UG/L	100
46)	C350 Dichlorobenzene (o)	25.38	146.0		4494	.54	UG/L	100
47)	C250 Xylene (Total)	18.63	106.0		1067	.20	UG/L	98

* Compound is ISTD

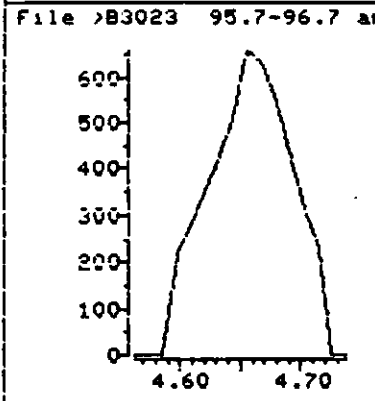
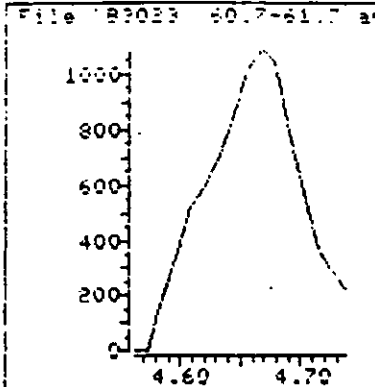
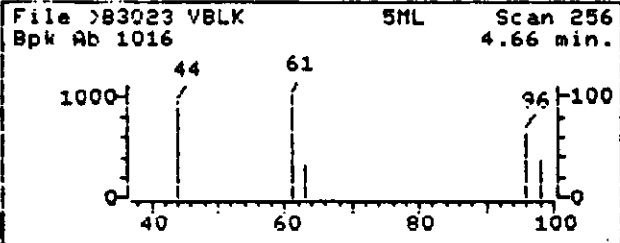
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



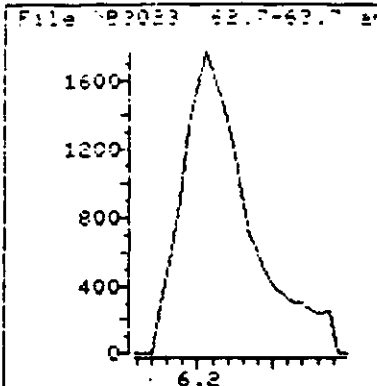
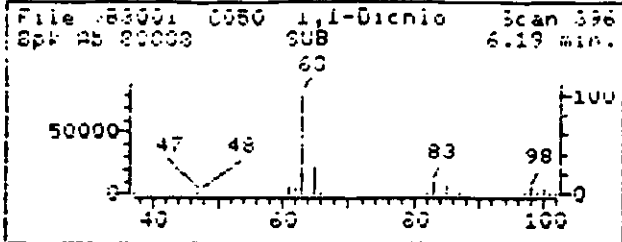
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 Misc: V2 CH# 16 5ULIS
 Quant Time: 911016 11:54
 Injected at: 911016 11:24

Quant Output File: ^B3023::QT

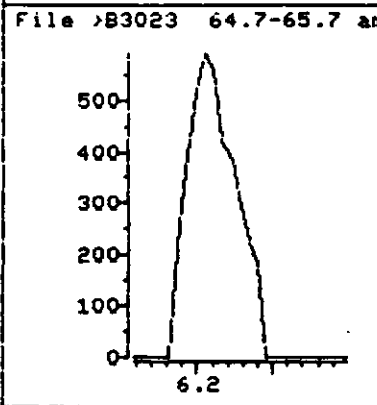
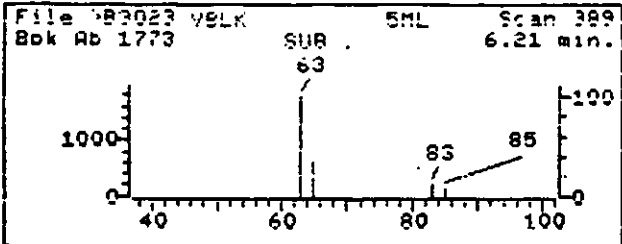
Quant ID File: UDAID2::\$\$
 Last Calibration: 911016 11:13

Compound No: 6
 Compound Name: C045 1,1-Dichloroethene
 Scan Number: 256
 Retention Time: 4.66 min.
 Quant Ion: 96.0
 Area: 3243
 Concentration: 1.06 UG/L
 q-value: 87

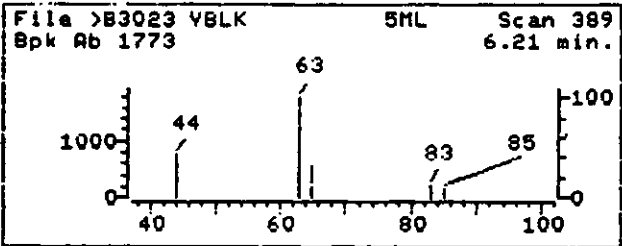
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



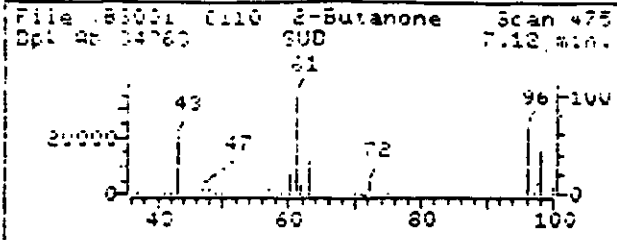
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Misc: V2 CH# 16 5ULIS
Quant Time: 911016 11:54
Injected at: 911016 11:24

Quant Output File: ^B3023::QT

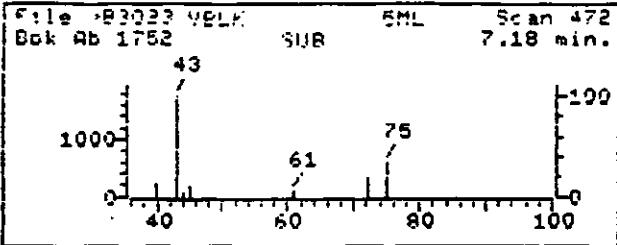
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Last Calibration: 911016 11:13

Compound No: 12
Compound Name: C050 1,1-Dichloroethane
Scan Number: 389
Retention Time: 6.21 min.
Quant Ion: 63.0
Area: 10918
Concentration: 1.07 UG/L
q-value: 89

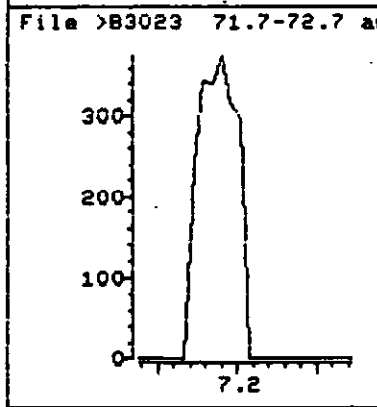
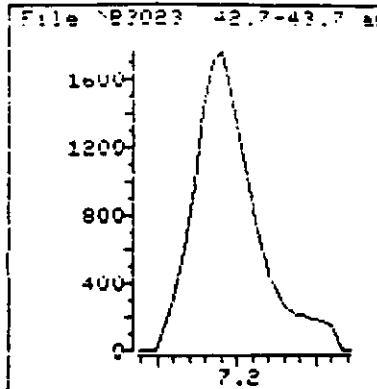
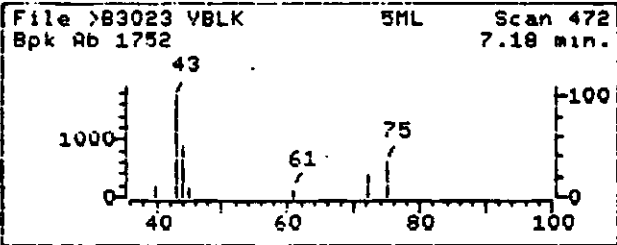
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



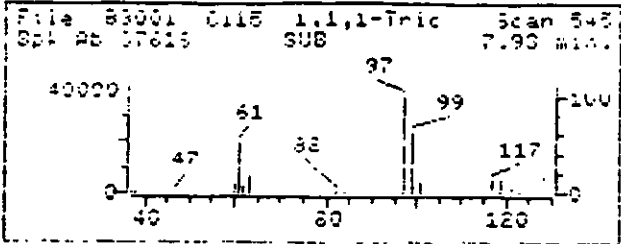
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Misc: U2 CH# 16 SUDIS
Quant Time: 911016 11:54
Injected at: 911016 11:24

Quant Output File: ^B3023::QT

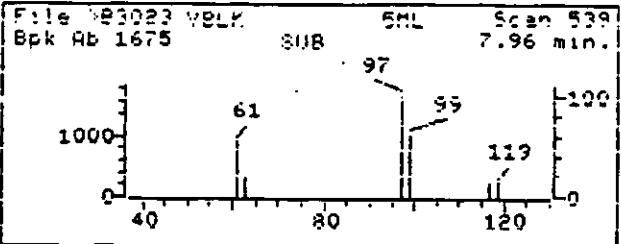
Quant ID File: UQAID2::\$\$
Last Calibration: 911016 11:13

Compound No: 15
Compound Name: C110 2-Butanone
Scan Number: 472
Retention Time: 7.18 min.
Quant Ion: 43.0
Area: 9452
Concentration: 3.96 UG/L
q-value: 96

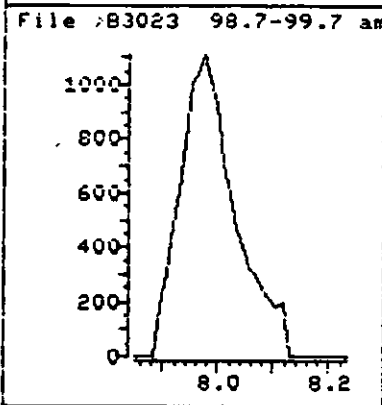
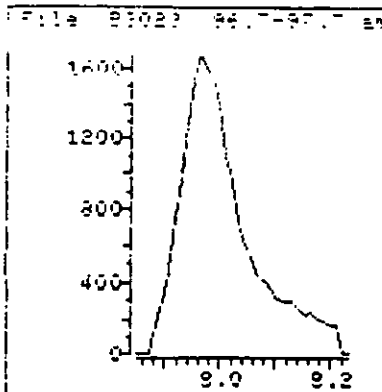
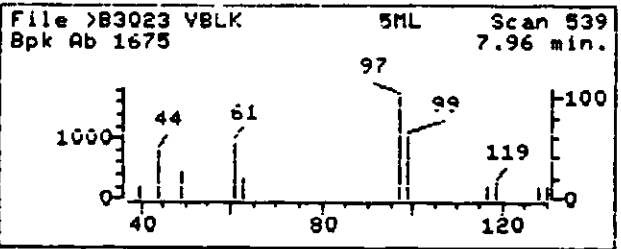
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B3023::DU
Name: VBLK 04 5ML
Misc: U2 CH# 16 5ULIS
Quant Time: 911016 11:54
Injected at: 911016 11:24

Quant Output File: ^B3023::QT

Quant ID File: UOAI02::\$\$
Last Calibration: 911016 11:13

Compound No: 19
Compound Name: C115 1,1,1-Trichloroethane
Scan Number: 539
Retention Time: 7.96 min.
Quant Ion: 97.0
Area: 13392
Concentration: 2.27 UG/L
q-value: 90

Data Reduced by : JJ Date: 10/16/91
Data Reviewed by : VZ Date: 10/17/91

Data File: b3003

Enseco TIC Report (page 1)

Sample: UBLK 04 5ML
Conditions: 02 CH# 16 5ULIS

Run Factor: 1.00
Analyst: NORA

# Scan	U	C	Concentration in Sample (UG/L)	LAS #	Compound
<i>no unknowns</i>					

Versar Laboratories

**ANALYTICAL DATA PACKAGE
General Chemistry Section**

**CLIENT: ENSECO-ERCO LAB
SITE: PROJ# 10147
CODE-BATCH: ERCO - 8
CONTROL #: 5620
DATE: 22-OCT-91
ANALYSIS: TOC**

Versar Laboratories

ANALYTICAL NARRATIVE General Chemistry Section

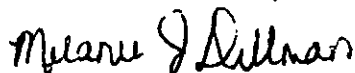
DATE: 22-OCT-91
CODE/CONTROL: ERCO / 5620
CLIENT/SITE: ENSECO-ERCO LAB / PROJ# 10147
PROJECT/BATCH: 420.2 / 8

This task consisted of two soil samples which were analyzed for total organic carbon (TOC) using a Perkin-Elmer Elemental Analyzer, model #2400. Prior to analysis, air-dried sample aliquots were acidified and heated to remove inorganic carbon. Sample results have been reported on an oven-dried basis.


Samples were received October 9, 1991 and were analyzed October 21. No analytical or quality assurance problems were encountered. Check standard recoveries were within acceptable limits, and blank results were below method detection limits. Duplicate and spike analyses were not required.

Release of this data has been authorized by laboratory management.

Sincerely,



Melanie J. Dillman
General Chemistry Section



Approved for Release
Chris Thompson, Section Chief

Versar Laboratories

ANALYSIS REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91
CODE / CONTROL #: ERCO / 5620
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10147
PROJECT / BATCH: 420.2.0 / 8

PAGE: 1

Lab#	Field #	TOC (mg/kg)		
63659	UCC-SB-B-19-4	1,100.		
63660	UCC-SB-A-12-4C	3,450.		

C. Thompson
Laboratory Manager

Versar Laboratories

QUALITY ASSURANCE REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91
CONTROL #: 5620
CODE / BATCH: ERCO / 8
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10147
JOB NUMBER: 420.2.0

TOC

BLANK ANALYSIS / METHOD DETECTION LIMIT

<u>QC Name</u>	<u>QC Type</u>	<u>Result</u>	<u>Units</u>
CALIBRATION BLANK	CB1	<100	mg/kg
DETECTION LIMIT	MDL1	100	mg/kg
REAGENT BLANK	RB1	<100	mg/kg

INITIAL CALIBRATION VERIFICATION

<u>Source</u>	<u>QC Type</u>	<u>True</u>	<u>Found</u>	<u>Recovery</u>	<u>Units</u>
KHP	ICV1	470500	460000	98%	mg/kg

CONTINUING CALIBRATION VERIFICATION

<u>Source</u>	<u>QC Type</u>	<u>True</u>	<u>Found</u>	<u>Recovery</u>	<u>Units</u>
KHP	CCV1	470500	466000	99%	mg/kg