



SDMS DocID 571853

Superfund Records Center

SITE: Union Chemical

BREAK: 6-4

571853

**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 3 OF 23**

**APPENDIX D**  
**SOIL CHEMICAL DATA SUMMARY**

**APPENDIX D-1**

**PRE-TEST SOIL CHEMICAL DATA**



October 24, 1991

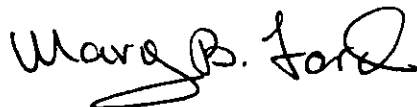
Mr. John O'Donnell  
Balsam Environmental Consultants, Inc.  
5 Industrial Way  
Salem, NH 03079

Dear John:

Enclosed are the results of the analyses for UCC Soil Analysis October 1991 (UCC Soil Analysis 09/30/91). This project was received at Enseco - Erco Laboratory on September 30, 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 010041 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.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-D-02-004

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10041-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2871

Level: (low/med) MED Date Received: 08/30/90

% Moisture: not dec. 12 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	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	710	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	710	U
75-35-4	1,1-Dichloroethene	710	U
75-34-3	1,1-Dichloroethane	710	U
540-59-0	1,2-Dichloroethene (total)	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	710	U
56-23-5	Carbon Tetrachloride	710	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
10061-02-6	trans-1,3-Dichloropropene	710	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	710	U
108-88-3	Toluene	810	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	150	J
100-42-5	Styrene	710	U
1330-20-7	Xylene (total)	700	J

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-D-02-004

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10041-03  
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2871  
Level: (low/med) MED Date Received: 08/30/90  
% Moisture: not dec. 12 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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-18-003

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: ERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10041-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2872

Level: (low/med) MED Date Received: 08/30/91

% Moisture: not dec. 12 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	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	3	BJ
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	710	U
75-35-4	1,1-Dichloroethene	710	U
75-34-3	1,1-Dichloroethane	710	U
540-59-0	1,2-Dichloroethene (total)	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	710	U
56-23-5	Carbon Tetrachloride	710	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
10061-02-6	trans-1,3-Dichloropropene	710	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	710	U
108-88-3	Toluene	710	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	710	U
100-42-5	Styrene	710	U
1330-20-7	Xylene (total)	33	J

1E  
**VOLATILE ORGANICS ANALYSIS DATA SHEET**  
**TENTATIVELY IDENTIFIED COMPOUNDS**

EPA SAMPLE NO.

SB-B-18-003

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10041-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2872

Level: (low/med) MED Date Received: 08/30/91

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

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	17.45	30	J
2.	UNKNOWN	20.58	43	J
3.	UNKNOWN	21.07	16	J
4.	UNKNOWN	21.24	14	J
5.	UNKNOWN ALKANE	21.48	24	J
6. 124-18-5	DECANE	21.80	130	J
7.	UNKNOWN ALKANE	22.78	51	J
8.	UNKNOWN ALKANE	23.59	37	J
9.	UNKNOWN	24.22	14	J
10.	C10H18 ISOMER	25.03	29	J



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-27-QA1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 10041-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2689

Level: (low/med) LOW Date Received: 08/30/91

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/02/91

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	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.

9-27-QA1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 10041-05  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2689  
Level: (low/med) LOW Date Received: 08/30/91  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/02/91  
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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2688

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

‡ Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/01/91

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	1	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.

VBLK01

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: BLANK01  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2688  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/01/91  
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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

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      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
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.

VBLK02

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: BLANK02  
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

# Versar Laboratories INC.

## ANALYSIS REPORT General Inorganic Chemistry Section

DATE: 14-OCT-91  
CODE / CONTROL #: ERCO / 5582  
CLIENT / SITE: ENSECO-ERCO LAB / PO 10041  
PROJECT / BATCH: 420.2.0 / 5

PAGE: 1

Lab#	Field #	TOC (mg/kg)
63252	10041-01	6,460.
63253	10041-02	605.

*C. Thompson* 000118  
Laboratory Manager

# Versar Laboratories INC.

## QUALITY ASSURANCE REPORT General Inorganic Chemistry Section

DATE: 14-OCT-91  
CONTROL #: 5582  
CODE / BATCH: ERCO / 5  
CLIENT / SITE: ENSECO-ERCO LAB / PO 10041  
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	480000	102%	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	469000	100%	mg/kg



DELIVERABLES INDEX

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 09/30/91  
Erco Project Number: 010041

	<u>Page</u>
<b>I. INTRODUCTION</b>	
A. Case Narrative	<u>1</u>
B. Sample Description Information	<u>3</u>
C. Sample Analysis Instrument Key	<u>4</u>
D. Internal Standard and Surrogate Key	<u>6</u>
E. Instrument Detection Limits	<u>7</u>
F. Chain-of-Custody Reports	<u>8</u>
G. Data Reporting Qualifiers	<u>11</u>
<b>II. VOLATILES DATA</b>	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	<u>13</u>
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>NA</u>
3. Erco Method Blank Summary (Form VI)	<u>15</u>
4. GC/MS Tuning and Mass Calibration Summary (Form V)	<u>17</u>
5. Internal Standard Area Summary (Form VIII)	<u>20</u>
B. Sample Data (Form I, Form I-TIC, and Raw Data)	<u>22</u>
C. Standards Data	
1. Initial Calibration Data (Form VI)	<u>69</u>
2. Initial Calibration Standard Chromatograms	<u>71</u>
3. Continuing Calibration Data (Form VII)...	<u>85</u>
4. Continuing Calibration Standard Chromatograms	<u>87</u>

DELIVERABLES INDEX (Cont.)

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 09/30/91  
Erco Project Number: 010041

II. VOLATILES DATA (Cont.)

Page

D. Raw QC Data

1. BFB Bar Graph and Mass Listing
2. Erco Blank Data
3. Matrix Spike/Matrix Spike Duplicate Data

93

99

NA

III. INORGANIC DATA

118

NA=Not applicable

October 24, 1991

Case Narrative

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 09/30/91  
Erco Project No.: 010041

1. This case consists of the results for samples that were received at Enseco - Erco Laboratory on September 30, 1991. Please see the sample description information sheet for a list of samples.
2. Temperature of cooler was 11.0° C.  
Bottles were not broken in transit.  
Bottles were properly labeled.  
Samples agree with the chain-of-custody.  
Samples were preserved properly.  
Voa vials were preserved properly.

# **Versar Laboratories** INC.

## **ANALYTICAL NARRATIVE General Chemistry Section**

DATE: 14-OCT-91  
CODE/CONTROL: ERCO / 5582  
CLIENT/SITE: ENSECO-ERCO LAB / PO 10041  
PROJECT/BATCH: 420.2 / 5

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 1, 1991 and were analyzed October 8. 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*  
Melanie J. Dillman  
General Chemistry Section

*M. Dillman for C. Thompson*  
Approved for Release  
Chris Thompson, Section Chief

000002

SAMPLE DESCRIPTION INFORMATION  
for  
Balsam Environmental Consultants, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
010041-0001-SA	UCC-SB-B-18-004	SOIL	26 SEP 91	16:15	30 SEP 91
010041-0002-SA	UCC-SB-D-01-003	SOIL	27 SEP 91	14:05	30 SEP 91
010041-0003-SA	UCC-SB-D-02-004	SOIL	27 SEP 91	14:05	30 SEP 91
010041-0004-SA	UCC-SB-B-18-003	SOIL	26 SEP 91	16:00	30 SEP 91
010041-0005-SA	UCC-9/27-QA1	AQUEOUS	24 SEP 91		30 SEP 91

000003

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.

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KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

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

Volatile Compounds

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



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

# CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER <b>6437 T6</b>			PROJECT NAME _____					SAMPLER(S) SIGNATURE(S) <i>[Signatures]</i>					SEND REPORT TO: <b>John O'Donnell</b>							
PROJECT ADDRESS _____							ANALYTICAL LABORATORY <b>Enviro</b>					METHOD <b>B210</b>								
SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS										
										VOC	SEM	PESTICIDES/PCBs	TOL METALS	PP METALS	CYANIDE	TDC	COMMENTS			
UCC-SB-B-1P-004		9/26	4:5	Soil	X	ice	no	50ml	1									X		
UCC-SB-D-01-003		9/24	2:05		X			20ml	1									X		
UCC-SB-D-02-004		9/27	2:05		X			40ml	3	X										
UCC-SB-B-1P-003		9/26	4:00	✓	X	✓	✓	40ml	3	X										
UCC-9/27-QA1		9/27	—	water	X	ice	no	40ml	2	X										
<p style="text-align: right;">Normal Test CCP! per John O'Donnell 9/30/91 [initials]</p>																				
RELINQUISHED BY: <i>[Signature]</i>				DATE: 9/28/91		TIME: 12:00		RECEIVED BY:					DATE:		TIME:					
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:					DATE:		TIME:					
RELINQUISHED BY:				DATE:		TIME:		RECEIVED FOR LABORATORY BY: <i>James H. Bunde III</i>					DATE: 9/30/91		TIME: 09:00					
METHOD OF SHIPMENT: <b>Federal Express</b>							AIRBILL (OR SHIPPING INVOICE) NUMBER: <b>3245364426</b>													

8000000

ISUR

ANALYTICAL REQUESTS

SEND RESULTS TO:

Erco Laboratory

ATTENTION: Mary Ford

COMMENTS

UCC-SB-D-18-004  
UCC-SB-D-01-003

600000

EXPORT ID

10041-01  
-02

TOC-  
SII  
✓  
✓

SAMPLE  
CONDITION  
UPON  
RECEIPT

TEST PRICE

SUBTOTAL

DISCOUNT / SURCHARGE

TOTAL

WRITTEN RESULTS  
REQUIRED BY (DATE)

VERBAL/FAC RESULTS  
REQUIRED BY (DATE)

P.O. No. 10041

Q.C.  STANDARD ENSECO  CLP PROTOCOL  PROJECT SPECIFIC

SAMPLE DISPOSAL  ENSECO  RETURN TO CLIENT  PHONE

DETECTION LIMITS  COMMON PRODUCTS  OTHER\* ~~EEA~~

HOLDING TIMES  ENSECO  EPA-CLP  TIER  OTHER\*

RAW DATA COPIES NEEDED  YES  NO

CUSTODY SEALS INTACT  YES  NO  WET WEIGHT  DRY WEIGHT

RELINQUISHED

Mary B. Ford 9/30/91 1200

RECEIVED

Jann Murphy 10-1-91 1000

\*SPECIAL INSTRUCTIONS

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
010036	MK 9/27/91					UH 9/28/91			
010037	SA 9/28/91	SVH 10/1/91	1-9	12/2/91	10/1/91		00 9/30		
010038	SA 9/28/91	SVH 10/1/91	1-6	12/2/91	10-1-91		00 9/30		
010039	SHB 9/30/91							VE 9/30/91	
010040	SHB 9/30/91						00 9/30		
010041	SHB 9/30/91							P 10/1/91	M.B. 10/1/91
010042									
010043									
010044									
010045									
010046									
010047									
010048									
010049									
010050	SHB 9/30				00 10/1/91		00 10-1-91		
010051									
010052									
010053									
010054	SHB 10/1						00 10-1-91		
010055	SHB 10/1/91						00 10/1/91		
010056									
010057									

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

## 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:

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

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.

2A  
**WATER VOLATILE SURROGATE RECOVERY**

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	9-27-QA1	98	95	109	0	0
02	VBLK01	96	96	101	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.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-B-18-003	102	100	103	0	0
02	SB-D-02-004	109	111	109	0	0
03	VBLK02	101	101	106	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.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: F2688 Lab Sample ID: BLANK01  
Date Analyzed: 10/01/91 Time Analyzed: 2337  
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	9-27-QA1	10041-05	F2689	0009

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: F2870 Lab Sample ID: BLANK02  
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-18-003	10041-04	F2872	1623
02	SB-D-02-004	10041-03	F2871	1551

COMMENTS:

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 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.:** 10041    **SAS No.:** \_\_\_\_\_    **SDG No.:** \_\_\_\_\_  
**Lab File ID:** F2680                                      **BFB Injection Date:** 10/01/91  
**Instrument ID:** V6    **BFB Injection Time:** 1713  
**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	21.5
75	30.0 - 60.0% of mass 95	45.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	Greater than 50.0% of mass 95	76.3
175	5.0 - 9.0% of mass 174	6.0 ( 7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.2 ( 97.3)1
177	5.0 - 9.0% of mass 176	4.8 ( 6.5)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	F2682	10/01/91
02	VBLK01	BLANK01	F2688	10/01/91
03	9-27-QA1	10041-05	F2689	10/02/91

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 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	VBLK02	BLANK02	F2870	10/10/91	1428
03	SB-D-02-004	10041-03	F2871	10/10/91	1551
04	SB-B-18-003	10041-04	F2872	10/10/91	1623

8A  
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): F2682 Date Analyzed: 10/01/91  
 Instrument ID: V6 Time Analyzed: 1855  
 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	76900	7.26	389000	9.15	294000	16.31
UPPER LIMIT	153800		778000		588000	
LOWER LIMIT	38450		194500		147000	
EPA SAMPLE NO.						
01 9-27-QA1	72900	7.19	417000	9.08	318000	16.26
02 VBLK01	69900	7.22	405000	9.09	313000	16.28

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.: 10041 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-18-003	90100	7.30	508913	9.20	382751	16.40
02 SB-D-02-004	86100	7.36	472000	9.27	369000	9.27
03 VBLK02	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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-D-02-004

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10041-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2871

Level: (low/med) MED Date Received: 08/30/90

% Moisture: not dec. 12 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	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	710	U
67-64-1-----	Acetone	1400	U
75-15-0-----	Carbon Disulfide	710	U
75-35-4-----	1,1-Dichloroethene	710	U
75-34-3-----	1,1-Dichloroethane	710	U
540-59-0-----	1,2-Dichloroethene (total)	710	U
67-66-3-----	Chloroform	710	U
107-06-2-----	1,2-Dichloroethane	710	U
78-93-3-----	2-Butanone	1400	U
71-55-6-----	1,1,1-Trichloroethane	710	U
56-23-5-----	Carbon Tetrachloride	710	U
108-05-4-----	Vinyl Acetate	1400	U
75-27-4-----	Bromodichloromethane	710	U
78-87-5-----	1,2-Dichloropropane	710	U
10061-01-5-----	cis-1,3-Dichloropropene	710	U
79-01-6-----	Trichloroethene	710	U
124-48-1-----	Dibromochloromethane	710	U
79-00-5-----	1,1,2-Trichloroethane	710	U
71-43-2-----	Benzene	710	U
10061-02-6-----	trans-1,3-Dichloropropene	710	U
110-75-8-----	2-Chloroethylvinylether	1400	U
75-25-2-----	Bromoform	710	U
108-10-1-----	4-Methyl-2-Pentanone	1400	U
591-78-6-----	2-Hexanone	1400	U
127-18-4-----	Tetrachloroethene	710	U
79-34-5-----	1,1,2,2-Tetrachloroethane	710	U
108-88-3-----	Toluene	810	U
108-90-7-----	Chlorobenzene	710	U
100-41-4-----	Ethylbenzene	150	J
100-42-5-----	Styrene	710	U
1330-20-7-----	Xylene (total)	700	J



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-D-02-004

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10041-03  
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2871  
Level: (low/med) MED Date Received: 08/30/90  
% Moisture: not dec. 12 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

8240-S  
NC

L-100791-V01  
R-101091-V6A > F2870  
mecl<sub>2</sub>

Reduced by: MB Date: 10/09/91  
Reviewed by: MB Date: 10/11/91

Data File: >F2871  
Page: 1

Enseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: BAL. 10041-3 100ULX ✓  
Misc : U6, CH#01, 5UL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-02-004  
Injected : 10/10/91 15:51 Units: UG/KG  
Analyst: KERYLYNN Run Factor: 125.000 ✓  
ID File: MOBID6 ✓  
Surrogate vol: .500  
Quant list threshold: 1.00

Surrogate Spike Recoveries no unknowns

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QC limits
CS15 D4-1,2-dichloroethane	25.00	27.21	109	70 121
CS05 D8-Toluene	25.00	27.36	109	81 117
CS10 Bromofluorobenzene	25.00	27.74	111	74 121

Target Compounds: MOBID6

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		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

000024

Scan #	Concentration		Compound
	Quant list UG/L	Sample UG/KG	
		BDL	C155 Dibromochloromethane
		BDL	C180 Bromoform
929	5.714	710	C205 4-Methyl-2-pentanone
		BDL	C230 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
1291	1.027	130 J	C240 Ethylbenzene
1319	3.357	<del>420</del> NR	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)
	4.94	617.5 J	C250 Xylenes (total)

TR 101091 MB10/11/91

Diagnostic Quant Report

Data File: >F2871::D6      Injected at: 15:51 10/10/91  
 Quant'd : 16:18 10/10/91  
 ID File : MOBID6::MT      Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *C101 Bromochloromethane	7.26	7.36	.09	128.0	86149	1.0000	50.00
2) C010 Chloromethane	2.72	0.00	--	50.0	0	1.1732	0.00
3) C020 Vinyl Chloride	2.87	0.00	--	62.0	0	1.0243	0.00
4) C015 Bromomethane	3.26	0.00	--	94.0	0	.8064	0.00
5) C025 Chloroethane	3.39	0.00	--	64.0	0	.4830	0.00
6) C045 1,1-Dichloroethene	4.38	0.00	--	96.0	0	1.2352	0.00
7) C035 Acetone	4.47	0.00	--	43.0	0	.2076	0.00
8) C040 Carbon Disulfide	4.68	0.00	--	76.0	0	3.6934	0.00
9) C030 Methylene Chloride	5.02	5.00	.02	84.0	1547	1.7398	.52
10) CXXX Tert-butyl alcohol	5.18	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.41	0.00	--	96.0	0	1.6583	0.00
12) C055 Cis-1,2-dichloroethe	6.95	0.00	--	96.0	0	1.7907	0.00
13) CXXX Methyl tert-butyl et	5.43	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	6.03	0.00	--	63.0	0	3.2420	0.00
15) C060 Chloroform	7.50	0.00	--	83.0	0	3.6056	0.00
16) C065 1,2-Dichloroethane	8.55	0.00	--	62.0	0	2.1656	0.00
17) C110 2-Butanone	6.97	0.00	--	72.0	0	.1151	0.00
18) CS15 D4-1,2-dichloroethan	8.41	8.40	.00	65.0	159238	1.6984	54.42
19) *C110 1,4-Difluorobenzene	9.15	9.27	.11	114.0	471552	1.0000	50.00
20) C125 Vinyl Acetate	6.10	0.00	--	43.0	0	.6092	0.00
21) C115 1,1,1-Trichloroethan	7.83	0.00	--	97.0	0	.5475	0.00
22) C120 Carbon Tetrachloride	8.12	0.00	--	117.0	0	.4487	0.00
23) C165 Benzene	8.51	0.00	--	78.0	0	.9682	0.00
24) C150 Trichloroethene	9.81	0.00	--	130.0	0	.3931	0.00
25) C140 1,2-Dichloropropane	10.28	0.00	--	63.0	0	.3949	0.00
26) C130 Bromodichloromethane	10.92	0.00	--	83.0	0	.5930	0.00
27) C175 2-Chloroethylvinylet	11.65	0.00	--	63.0	0	.1765	0.00
28) C143 Cis-1,3-Dichloroprop	11.97	0.00	--	75.0	0	.5817	0.00
29) C172 Trans-1,3-dichloropr	13.40	0.00	--	75.0	0	.4559	0.00
30) C160 1,1,2-Trichloroethan	13.87	0.00	--	97.0	0	.3107	0.00
31) C155 Dibromochloromethane	14.93	0.00	--	129.0	0	.4736	0.00
32) C180 Bromoform	19.19	0.00	--	173.0	0	.2745	0.00
33) *C120 D5-Chlorobenzene	16.37	16.51	.13	117.0	369425	1.0000	50.00
34) CS05 D8-Toluene	12.57	12.60	.02	98.0	515254	1.2743	54.72
35) C205 4-Methyl-2-pentanone	12.33	0.00	--	43.0	0	.3539	0.00
36) C230 Toluene	12.74	12.77	.03	92.0	35939	.8513	5.71
37) C210 2-Hexanone	14.55	0.00	--	43.0	0	.2308	0.00
38) C220 Tetrachloroethene	14.16	0.00	--	164.0	0	.4399	0.00
39) C235 Chlorobenzene	16.58	0.00	--	112.0	0	1.0207	0.00
40) C240 Ethylbenzene	16.97	16.98	-.02	106.0	3895	.5133	1.03
41) D C240 Ethylbenzene	16.97	17.31	.35	106.0	16522	.5133	4.36
41) D CXXX Xylenes (p)	17.34	16.98	.36	106.0	3895	.6661	.79
41) CXXX Xylenes (p)	17.34	17.31	-.03	106.0	16522	.6661	3.36
42) CXXX Xylenes (o)	18.53	18.52	.01	106.0	3426	.6234	.74
43) C245 Styrene	18.58	0.00	--	104.0	0	1.1017	0.00
44) C225 1,1,2,2-Tetrachloroe	20.78	0.00	--	83.0	0	.6480	0.00
45) CS10 Bromofluorobenzene	20.20	20.17	.02	95.0	297390	.7254	55.49
46) C335 Dichlorobenzene (m)	23.79	0.00	--	146.0	0	.8993	0.00

000026

49)D C250 Xylenes (total)	18.72	18.70	1.22	106.0	2248	.6107	.70
49)D C250 Xylenes (total)	18.53	17.31	1.22	106.0	16524	.6105	3.66
49)D C250 Xylenes (total)	18.53	18.52	.01	106.0	3427	.6105	.76
49) C250 Xylenes (total)	18.53	18.57	.04	106.0	1178	.6105	.26

\* - Compound is an Internal Standard

D - Compound Qdel'ed

Internal Standard Comparison

Sample: >F2871 Date injected: 10/10/91 Standard: >F2866✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	86149	76639	112.4 ✓
CI10 1,4-Difluorobenzene	471552	407218	115.8 ✓
CI20 D5-Chlorobenzene	369425	313165	118.0

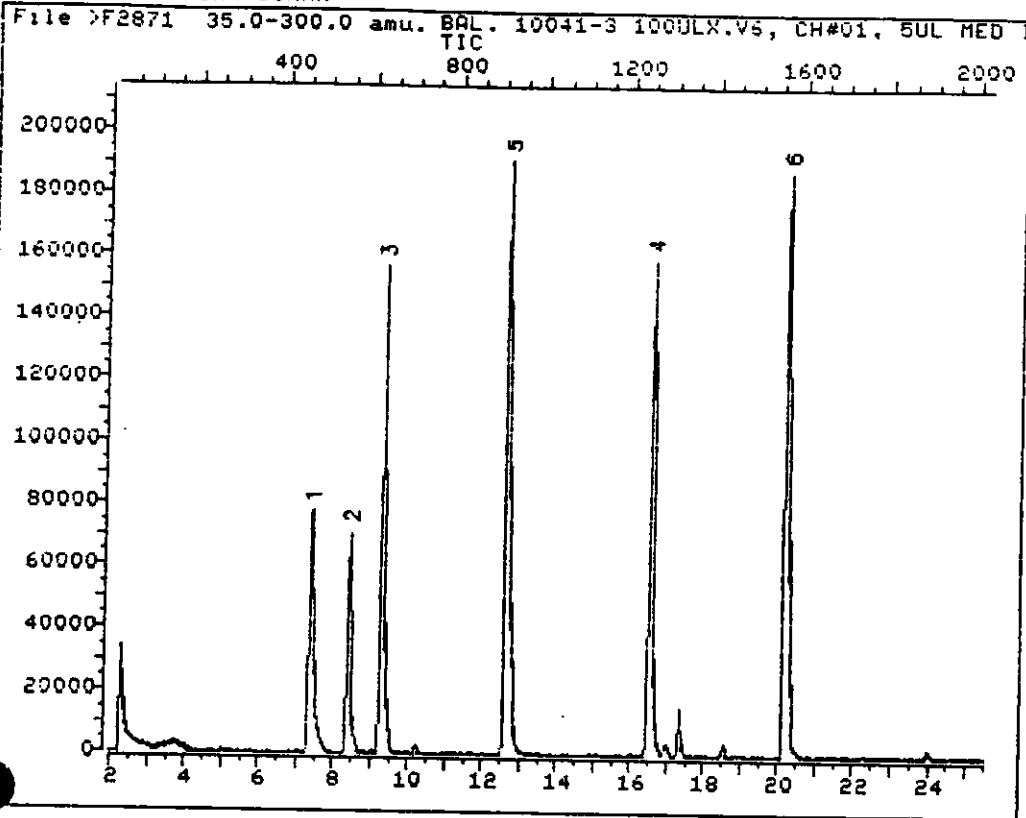
% = (Sample Area/Std Area)\*100

\* Area outside limits

10/10/91

000028

TOTAL ION CHROMATOGRAM



Data File: >F2871::D6

Quant Output File: ^F2871::D7

Name: BAL. 10041-3 100ULX.

Instrument ID: U6

Misc: U6, CH#01, 5UL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-0

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 16:18

Injected at: 911010 15:51

GC0029

QUANT REPORT

Page 1

Operator ID: KERYLYNN                      Quant Rev: 7                      Quant Time: 911010 16:18  
 Output File: ^F2871::D7                      Injected at: 911010 15:51  
 Data File: >F2871::D6                      Dilution Factor: 1.00000  
 Name: BAL. 10041-3 100ULX.                      Instrument ID: U6  
 Misc: U6, CH#01, 5UL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-0

ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 911010 11:03

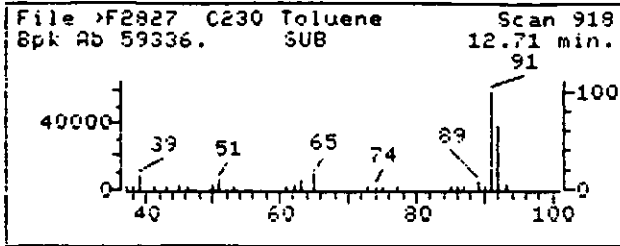
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.36	128.0	86149	50.00	UG/L	70
9)	C030 Methylene Chloride	5.00	84.0	1547	.516	UG/L	73
18)	CS15 D4-1,2-dichloroethane	8.40	65.0	159238	54.42	UG/L	83
19)	*CI10 1,4-Difluorobenzene	9.27	114.0	471552	50.00	UG/L	100
33)	*CI20 D5-Chlorobenzene	16.51	117.0	369425	50.00	UG/L	100
34)	CS05 D8-Toluene	12.60	98.0	515254	54.72	UG/L	97
36)	C230 Toluene	12.77	92.0	35939	5.71	UG/L	91
40)	C240 Ethylbenzene	16.98	106.0	3895	1.03	UG/L	94
41)	CXXX Xylenes (p)	17.31	106.0	16522	3.36	UG/L	99
42)	CXXX Xylenes (o)	18.52	106.0	3426	.744	UG/L	80
43)	CS10 Bromofluorobenzene	20.17	95.0	297390	55.49	UG/L	75
49)	C250 Xylenes (total)	17.31	106.0	22298M	4.94	UG/L	84

\* Compound is ISTD

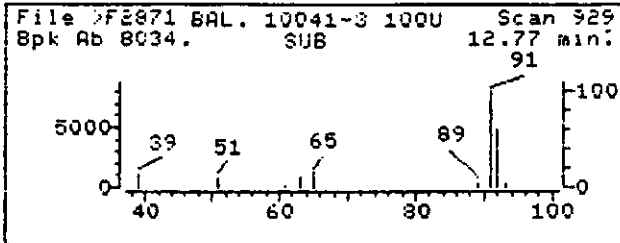
*DBJ*  
*10/09/10*



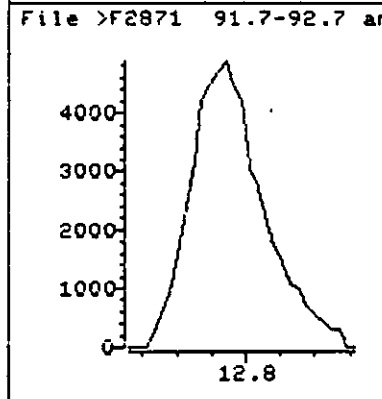
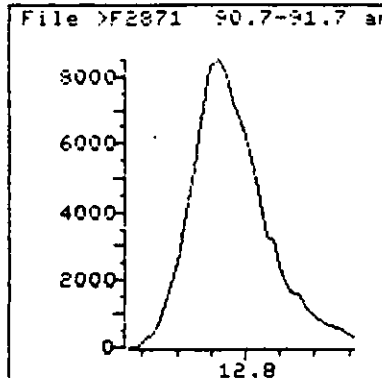
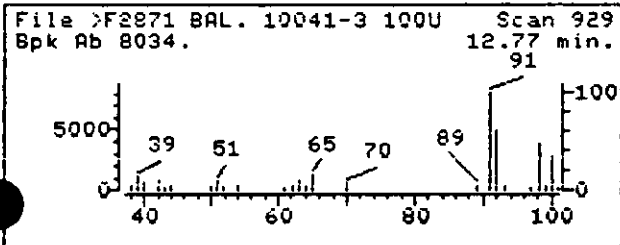
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



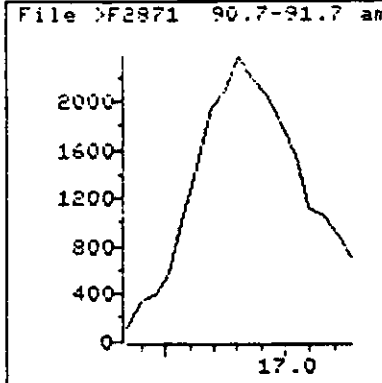
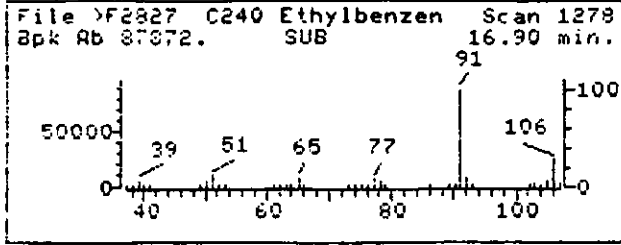
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Name: BAL. 10041-3 100ULX.  
Misc: U6, CH#01, SUL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-02-004  
Quant Time: 911010 16:18  
Injected at: 911010 15:51  
Last Qcal Time: 911010 11:03

Quant Output File: ^F2871::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37

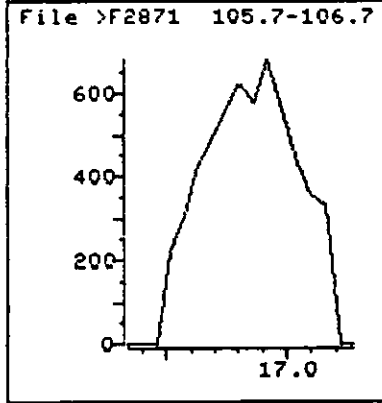
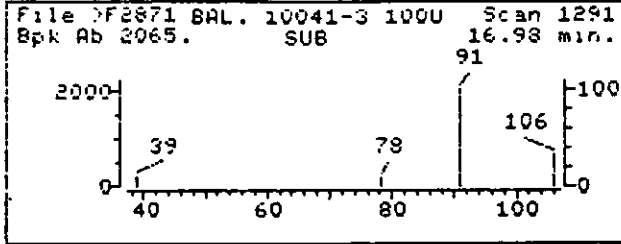
Compound No : 36  
Compound Name : C230 Toluene  
Scan Number : 929  
Retention Time: 12.77 min.  
Quant Ion : 92.0  
Area : 35939  
Concentration : 5.71 UG/L  
q-value : 91

MB 10/11/91

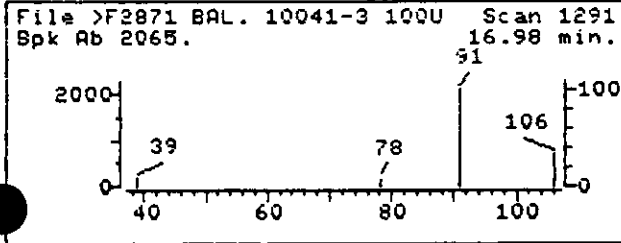
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



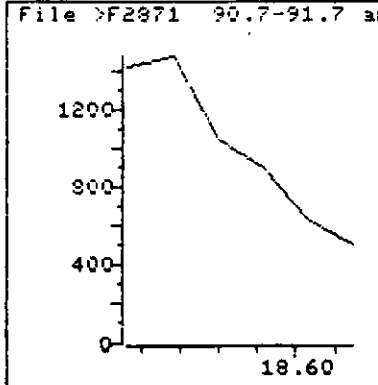
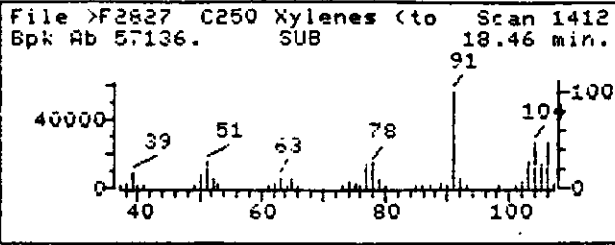
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Name: BAL. 10041-3 100ULX.  
Misc: U6, CH#01, 5UL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-02-004  
Quant Time: 911010 16:18  
Injected at: 911010 15:51  
Last Qcal Time: 911010 11:03

Quant Output File: ^F2871::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37 MB 10/11/91

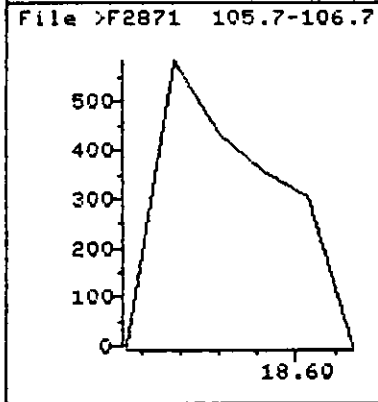
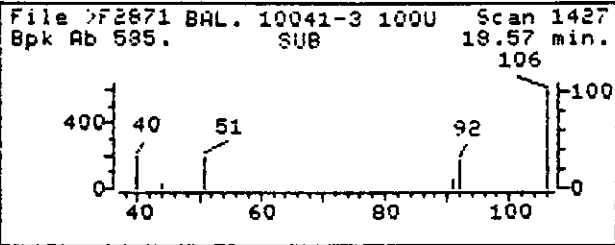
Compound No : 40  
Compound Name : C240 Ethylbenzene  
Scan Number : 1291  
Retention Time: 16.98 min.  
Quant Ion : 106.0  
Area : 3895  
Concentration : 1.03 UG/L  
q-value : 94

*checked*  
*MB 10/11/91*

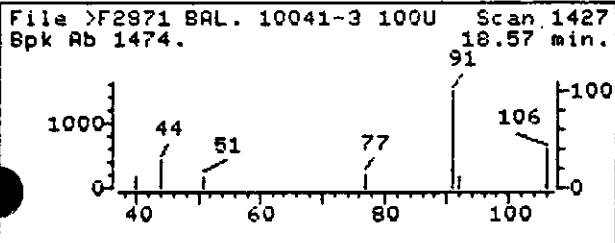
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2871::D6  
 Name: BAL. 10041-3 100ULX.  
 Misc: U6, CH#01, 5UL MED IS, EXT=4.01/10ML 10/09, UCC-SB-D-02-004  
 Quant Time: 911010 16:18  
 Injected at: 911010 15:51  
 Last Qcal Time: 911010 11:03

Quant Output File: ^F2871::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

MB 10/11/91

Compound No : 49  
 Compound Name : C250 Xylenes (total)  
 Scan Number : 1427  
 Retention Time: 18.57 min.  
 Quant Ion : 106.0  
 Area : 1178  
 Concentration : .261 UG/L  
 q-value : 84

4.94 ug/L  
 DJ 10/10/91

Data Reduced by : TSJ Date: 10/09/91  
Data Reviewed by : MB Date: 10/11/91

Data File: >F2871

Enseco TIC Report (page 1)

Sample: BAL. 10041-3 100ULX. Run Factor: 125.  
Conditions: U6, CH#01, 5UL MED IS, EXT=4.0 Analyst: KERYLYNN

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

*No Unk's*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-18-003

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10041-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2872

Level: (low/med) MED Date Received: 08/30/91

% Moisture: not dec. 12 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	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	3	BJ
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	710	U
75-35-4	1,1-Dichloroethene	710	U
75-34-3	1,1-Dichloroethane	710	U
540-59-0	1,2-Dichloroethene (total)	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	710	U
56-23-5	Carbon Tetrachloride	710	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
10061-02-6	trans-1,3-Dichloropropene	710	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	710	U
108-88-3	Toluene	710	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	710	U
100-42-5	Styrene	710	U
1330-20-7	Xylene (total)	33	J

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-18-003

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10041-04  
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2872  
 Level: (low/med) MED Date Received: 08/30/91  
 % Moisture: not dec. 12 Date Analyzed: 10/10/91  
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	17.45	30	J
2.	UNKNOWN	20.58	43	J
3.	UNKNOWN	21.07	16	J
4.	UNKNOWN	21.24	14	J
5.	UNKNOWN ALKANE	21.48	24	J
6. 124-18-5	DECANE	21.80	130	J
7.	UNKNOWN ALKANE	22.78	51	J
8.	UNKNOWN ALKANE	23.59	37	J
9.	UNKNOWN	24.22	14	J
10.	C10H18 ISOMER	25.03	29	J

\* - Compound is an Internal Standard  
 D - Compound Qdel'ed

8240-3  
 NC

>F2870  
 Melch

Produced by: DBV Date: 10/10/91 Data File: >F2872  
 Reviewed by: MB Date: 10/11/91 Page: 1  
 Enseco Mass Spectrometry  
 Target Compound Data Summary Sheet

Sample: BAL. 10041-4 100ULX. ✓  
 Misc : U6, CH#02, 5UL MED IS, EXT=3.95/10ML 10/10, UCC-SB-B-18-003  
 Injected : 10/10/91 16:23 Units: UG/KG  
 Analyst: KERYLYNN Run Factor: 127.000 ✓  
 ID File: MOBID6 ✓ Surrogate vol: .500  
 Quant list threshold: 1.00

Surrogate Spike Recoveries *Unknowns present*

Compound	Surrogate Spiked	Surrogate Measured	% Recovery Measured	QC limits
CS15 D4-1,2-dichloroethane	25.00	25.72	103	70 121
CS05 D8-Toluene	25.00	25.51	102	81 117
CS10 Bromofluorobenzene	25.00	24.95	99.8	74 121

Target Compounds: MOBID6

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
256	2.242	280 <i>316</i>	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/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
1305	1.209	<del>150</del> <i>150</i>	C240 Ethylbenzene
	BDL		CXXX Xylenes (p)
1408	26.948	3400	CXXX Xylenes (o)
	BDL		C245 Styrene
1594	4.467	<del>570</del> <i>570</i>	C225 1,1,2,2-Tetrachloroethane
	BDL		C335 Dichlorobenzene (m)
	BDL		C340 Dichlorobenzene (p)
	BDL		C350 Dichlorobenzene (o)
1408	<del>22.416</del> 28.71	3500	C250 Xylenes (total)

3646.17  
 MB10/11/91  
 12/10/91



Diagnostic Quant Report

Data File: >F2872::D6 Injected at: 16:23 10/10/91

Quant'd : 16:51 10/10/91

ID File : MOBID6::MT Calibrated : 09:37 08/14/91

Compound	- R.T. Info -				Area	RF	Conc.
	Pred	Found	Dif	Ion			
1) *CI01 Bromochloromethane	7.26	7.30	.03	128.0	90134	1.0000	50.00
2) C010 Chloromethane	2.70	0.00	--	50.0	0	1.1732	0.00
3) C020 Vinyl Chloride	2.85	0.00	--	62.0	0	1.0243	0.00
4) C015 Bromomethane	3.24	0.00	--	94.0	0	.8064	0.00
5) C025 Chloroethane	3.36	0.00	--	64.0	0	.4830	0.00
6) C045 1,1-Dichloroethene	4.35	0.00	--	96.0	0	1.2352	0.00
7) C035 Acetone	4.43	0.00	--	43.0	0	.2076	0.00
8) C040 Carbon Disulfide	4.64	4.62	.02	76.0	2135	3.6934	.32
9) C030 Methylene Chloride	4.98	4.98	.00	84.0	7031	1.7398	2.24
10) CXXX Tert-butyl alcohol	5.14	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.37	0.00	--	96.0	0	1.6583	0.00
12) C055 Cis-1,2-dichloroethe	6.90	0.00	--	96.0	0	1.7907	0.00
13) CXXX Methyl tert-butyl et	5.39	0.00	--	73.0	0	3.1722	0.00
14) C050 1,1-Dichloroethane	5.99	0.00	--	63.0	0	3.2420	0.00
15) C060 Chloroform	7.44	0.00	--	83.0	0	3.6056	0.00
16) C065 1,2-Dichloroethane	8.48	0.00	--	62.0	0	2.1656	0.00
17) C110 2-Butanone	6.91	0.00	--	72.0	0	.1151	0.00
18) CS15 D4-1,2-dichloroethan	8.34	8.34	.01	65.0	157497	1.6984	51.44
19) *CI10 1,4-Difluorobenzene	9.15	9.20	.05	114.0	508913	1.0000	50.00
20) C125 Vinyl Acetate	6.06	0.00	--	43.0	0	.6092	0.00
21) C115 1,1,1-Trichloroethan	7.77	0.00	--	97.0	0	.5475	0.00
22) C120 Carbon Tetrachloride	8.06	0.00	--	117.0	0	.4487	0.00
23) C165 Benzene	8.45	0.00	--	78.0	0	.9682	0.00
24) C150 Trichloroethene	9.74	0.00	--	130.0	0	.3931	0.00
25) C140 1,2-Dichloropropane	10.21	0.00	--	63.0	0	.3949	0.00
26) C130 Bromodichloromethane	10.84	0.00	--	83.0	0	.5930	0.00
27) C175 2-Chloroethylvinylet	11.56	0.00	--	63.0	0	.1765	0.00
28) C143 Cis-1,3-Dichloroprop	11.88	0.00	--	75.0	0	.5817	0.00
29) C172 Trans-1,3-dichloropr	13.30	0.00	--	75.0	0	.4559	0.00
30) C160 1,1,2-Trichloroethan	13.77	0.00	--	97.0	0	.3107	0.00
31) C155 Dibromochloromethane	14.82	0.00	--	129.0	0	.4736	0.00
32) C180 Bromoform	19.05	0.00	--	173.0	0	.2745	0.00
33) *CI20 D5-Chlorobenzene	16.37	16.40	.02	117.0	382751	1.0000	50.00
34) CS05 D8-Toluene	12.49	12.51	.02	98.0	497714	1.2743	51.02
35) C205 4-Methyl-2-pentanone	12.25	0.00	--	43.0	0	.3539	0.00
36) C230 Toluene	12.65	0.00	--	92.0	0	.8513	0.00
37) C210 2-Hexanone	14.45	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	16.85	17.20	.35	106.0	4752	.5133	1.21
41) CXXX Xylenes (p)	17.23	17.20	.03	106.0	4752	.6661	.93
42) CXXX Xylenes (o)	18.41	18.40	.00	106.0	128593	.6234	26.95
43) C245 Styrene	18.45	18.41	.04	104.0	4968	1.1017	.59
44) C225 1,1,2,2-Tetrachloroe	20.65	20.58	.07	83.0	21067	.6160	4.47
44)D C225 1,1,2,2-Tetrachloroe	20.65	21.07	.42	83.0	2511	.6160	.53
45) CS10 Bromofluorobenzene	20.06	20.06	.00	95.0	277131	.7254	49.91
46) C335 Dichlorobenzene (m)	23.63	0.00	--	146.0	0	.8997	0.00
47) C340 Dichlorobenzene (p)	23.95	0.00	--	146.0	0	.8234	0.00
48) C350 Dichlorobenzene (o)	25.18	0.00	--	146.0	0	.8347	0.00
49)D C250 Xylenes (total)	18.41	17.20	1.20	106.0	4487	.6105	.96

000039

Internal Standard Comparison

Sample: >F2872 Date injected: 10/10/91 Standard: >F2866 ✓

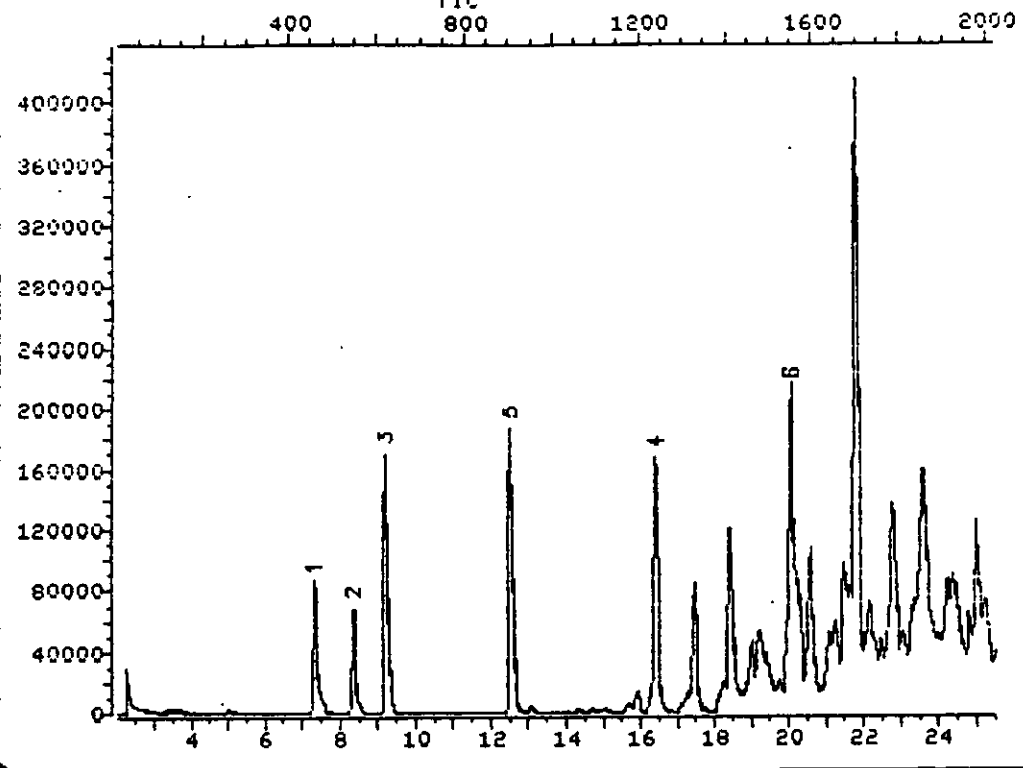
Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	90134	76639	117.6
CI10 1,4-Difluorobenzene	508913	407219	125.0 ✓
CI20 D5-Chlorobenzene	382751	313165	122.2

% = (Sample Area/Std Area)\*100

\* Area outside limits

TOTAL ION CHROMATOGRAM

File >F2872 35.0-300.0 amu. BAL. 10041-4 100ULX.V6, CH#02, 5UL MED



Data File: >F2872::D6

Quant Output File: ^F2872::D7

Name: BAL. 10041-4 100ULX.

Instrument ID: V6

Misc: V6, CH#02, 5UL MED IS, EXT=3.95/10ML 10/10, UCC-SB-B-1

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911010 11:03

Operator ID: KERYLYNN

Quant Time : 911010 16:51

Injected at: 911010 16:23

QUANT REPORT

Page 1

Operator ID: KERYLYNN                      Quant Rev: 7                      Quant Time: 911010 16:51  
 Output File: ^F2872::D7                      Injected at: 911010 16:23  
 Data File: >F2872::D6                      Dilution Factor: 1.00000  
 Name: BAL. 10041-4 100ULX.                      Instrument ID: V6  
 Misc: V6, CH#02, 5UL MED IS, EXT=3.95/10ML 10/10, UCC-SB-B-1

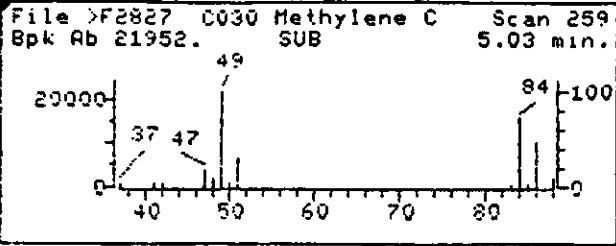
ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCC/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 911010 11:03

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.30	128.0		90134	50.00	UG/L	69
8) C040 Carbon Disulfide	4.62	76.0		2135	.321	UG/L	100
9) C030 Methylene Chloride	4.98	84.0		7031	2.24	UG/L	82
18) CS15 D4-1,2-dichloroethane	8.34	65.0		157497	51.44	UG/L	83
19) *CI10 1,4-Difluorobenzene	9.20	114.0		508913	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.40	117.0		382751	50.00	UG/L	100
34) CS05 D8-Toluene	12.51	98.0		497714	51.02	UG/L	96
40) C240 Ethylbenzene	17.20	106.0		4752	1.21	UG/L	49
1) CXXX Xylenes (p)	17.20	106.0		4752	.932	UG/L	80
2) CXXX Xylenes (o)	18.40	106.0		128593	26.95	UG/L	98
43) C245 Styrene	18.41	104.0		4968	.589	UG/L	100
44) C225 1,1,2,2-Tetrachloroethane	20.58	83.0		21067	4.47	UG/L	56
45) CS10 Bromofluorobenzene	20.06	95.0		277131	49.91	UG/L	68
49) C250 Xylenes (total)	18.40	106.0		134190M	28.71	UG/L	93

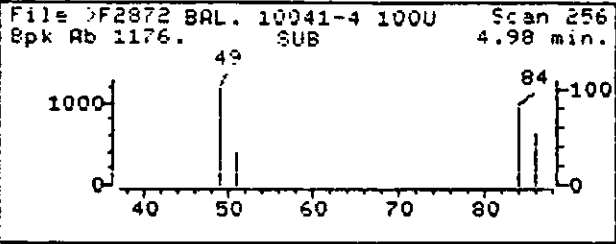
\* Compound is ISTD

*Handwritten:* 10/10/91

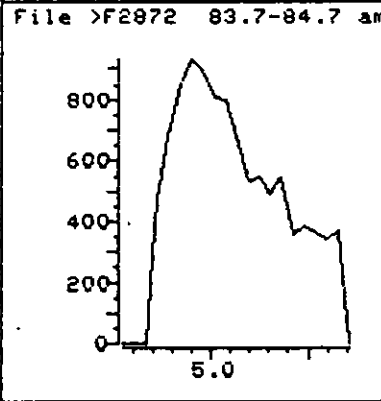
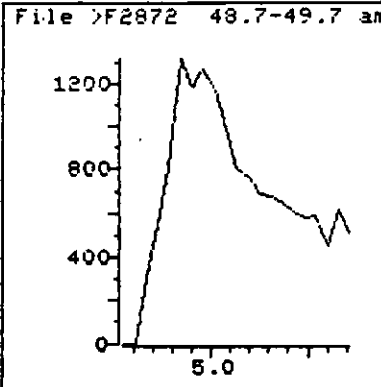
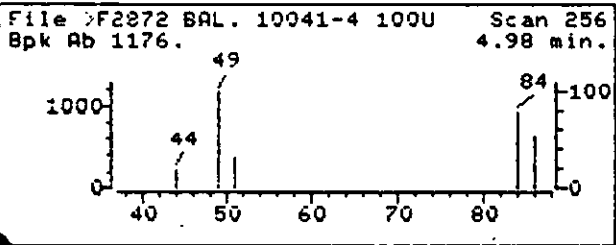
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



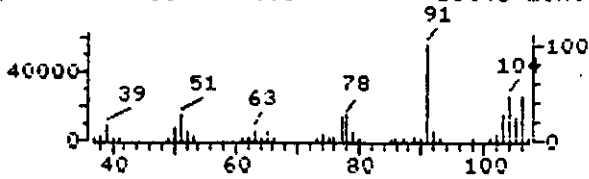
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Name: BAL. 10041-4 100ULX.  
Misc: U6, CH#02, 5UL MED IS, EXT=3.95/10ML 10/10, UCC-SB-B-18-003  
Quant Time: 911010 16:51  
Injected at: 911010 16:23  
Last Qcal Time: 911010 11:03

Quant Output File: ^F2872::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: 4.98 min.  
Quant Ion : 84.0  
Area : 7031  
Concentration : 2.24 UG/L  
q-value : 82

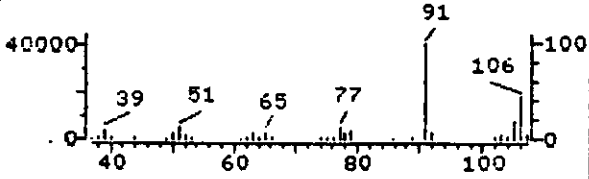
REFERENCE STANDARD SPECTRUM

File >F2827 C250 Xylenes (to Scan 1412  
Bpk Ab 57136. SUB 18.46 min.



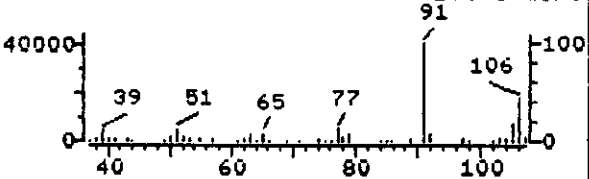
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >F2872 BAL. 10041-4 100U Scan 1408  
Bpk Ab 40480. SUB 18.40 min.

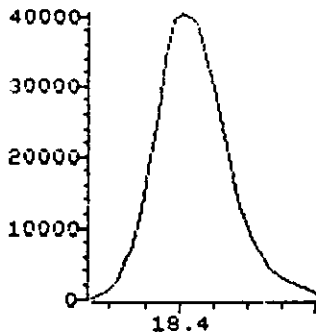


SAMPLE SPECTRUM (UNALTERED)

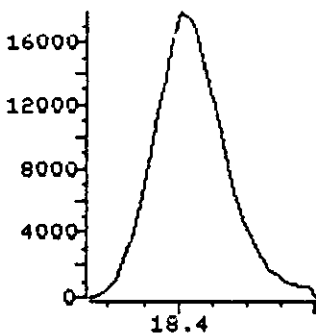
File >F2872 BAL. 10041-4 100U Scan 1408  
Bpk Ab 40480. SUB 18.40 min.



File >F2872 90.7-91.7 am



File >F2872 105.7-106.7



Data File: >F2872::D6  
Name: BAL. 10041-4 100ULX.  
Misc: U6, CH#02, 5UL MED IS, EXT=3.95/10ML 10/10, UCC-SB-B-18-003  
Quant Time: 911010 16:51  
Injected at: 911010 16:23  
Last Qcal Time: 911010 11:03

Quant Output File: ^F2872::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT MB10/11/01  
Last Calibration: 910814 09:37

Compound No : 49  
Compound Name : C250 Xylenes (total)  
Scan Number : 1408  
Retention Time: 18.40 min.  
Quant Ion : 106.0  
Area : 128120  
Concentration : 27.42 UG/L  
q-value : 93

28.71 ug/L  
TLV  
101091

Data Reduced by : MB Date: 10/09/1  
 Data Reviewed by : MB Date: 10/11/91

Data File: >F2872

Enseco TIC Report (page 1)

Sample: BAL. 10041-4 100ULX. Run Factor: 127.  
 Conditions: V6, CH#02, 5UL MED IS, EXT=3.9 Analyst: KERYLYNN

# Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
① 1326.			3400	111-84-2	Nonane Unk Alkane
2 1458.			1300.-	15869-94-0	Octane, 3,6-dimethyl- Unk Alkane
3 1477.			1500.-	1678-92-8	Cyclohexane, propyl- Unk Alkane
④ 1594.			4900	15869-94-0	Octane, 3,6-dimethyl- Unk.
⑤ 1636.			1800.	29853-04-1	Cyclopentane, 1-methyl-3-(2-methylpropyl)- Unk Alkane
⑥ 1651.			1600 ✓	1119-14-8	1,4-Hexadiene, 2-methyl- <del>ETHE</del> <del>Isome</del>
⑦ 1671.			2700	4291-79-6	Cyclohexane, 1-methyl-2-propyl- Unk Alkane
8 1682.			1500.-	16580-24-8	Cyclohexane, 1-methyl-3-(1-methylethyl)- Unk Alkane
⑨ 1699.			15000 ✓	124-18-5	Decane Unk Alkane
10 1727.			1400.-	29581-58-6	2-Pyrazoline, 1-butyl-5-methyl- Unk.
⑪ 1785.			5700	17382-28-2	Nonane, 2,6-dimethyl- Unknown alkane
⑫ 1852.			4200	1678-98-4	Cyclohexane, (2-methylpropyl)- Unknown alkane
⑬ 1906.			1600	28372-88-4	Cyclopentanol, 2-chloro-, trans- Unknown NR
14 1928.			1400.-	17312-45-7	Decane, 3,4-dimethyl- Unknown NR
⑮ 1974.			3200	91-17-8	Naphthalene, decahydro- C <sub>10</sub> H <sub>18</sub> Isomer

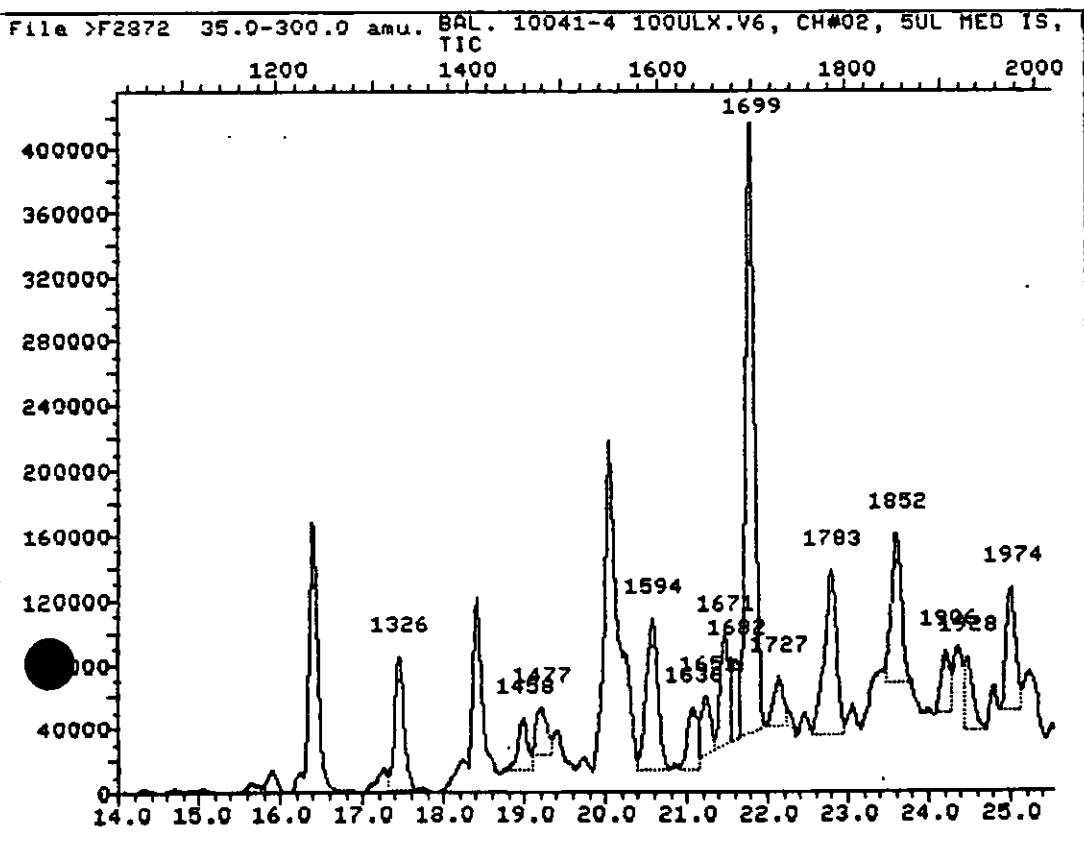
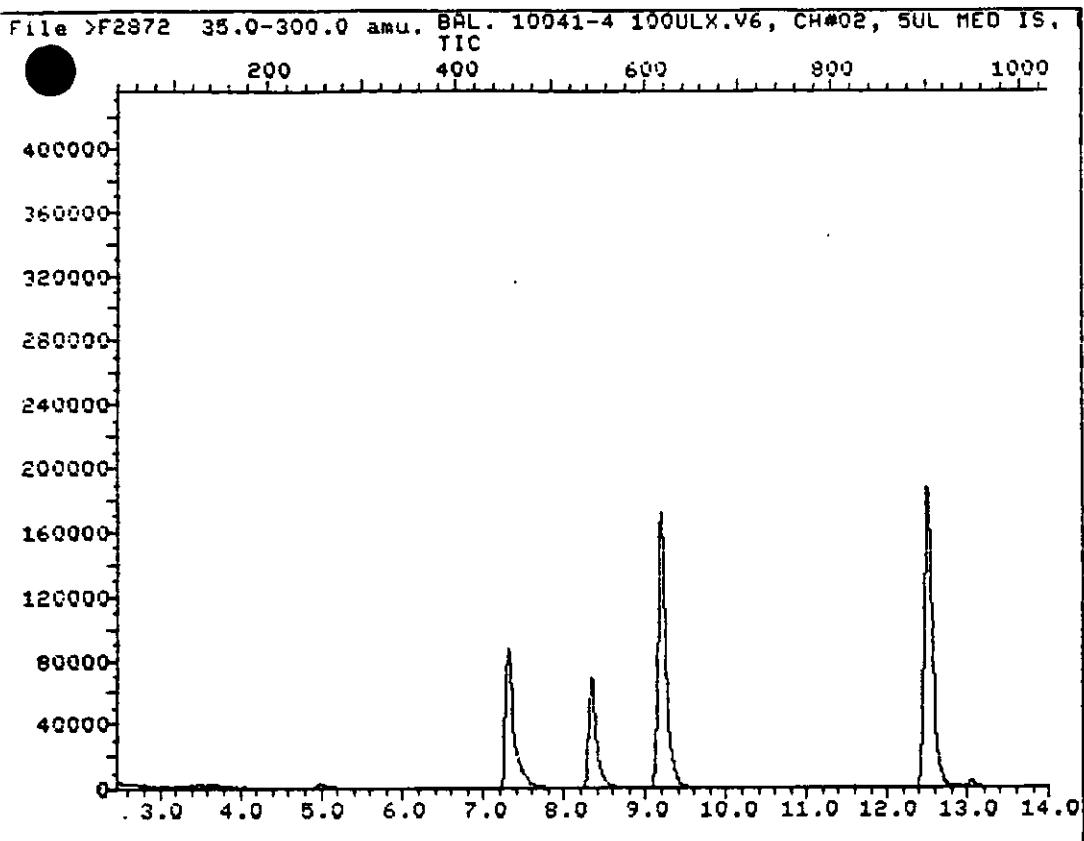
MB 10/11/91

## Enseco TIC Report (page 2)

$$\text{Concentration} = \text{Area(TIC)} * \text{Conc. (IS)} / \text{Area (IS)}$$

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. As Analyzed (UG/L )
1	95	0	3	17.45	1.064	644698.	83638.	26.707
2	78	1	3	18.99	1.158	252505.	31967.	10.460
3	64	21	3	19.21	1.171	279155.	30331.	11.564
4	34	55	3	20.58	1.255	922262.	93970.	38.206
5	25	46	3	21.07	1.285	334365.	38317.	13.852
6	25	44	3	21.24	1.295	298327.	37746.	12.359
7	82	23	3	21.48	1.310	519898.	69653.	21.537
8	30	46	3	21.60	1.317	294581.	49232.	12.203
9	94	0	3	21.80	1.330	2839895.	377591.	117.646
10	20	53	3	22.13	1.349	264078.	31431.	10.940
11	88	3	3	22.78	1.389	1075925.	101228.	44.572
12	70	9	3	23.59	1.439	793141.	92060.	32.857
13	25	47	3	24.22	1.477	295107.	39385.	12.225
14	60	14	3	24.48	1.493	274977.	45367.	11.391
15	83	15	3	25.02	1.525	615451.	76438.	25.496





000047

TIC Internal Standard Report

Data File: >F2872

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 Bromochlorometh	50.000 UG/L	Ok
455.	90134.	6.987 456. 623605.	99.019
2	CI10 1,4-Difluoroben	50.000 UG/L	Ok
618.	508913.	2.300 618. 1159586.	99.078
3	CI20 D5-Chlorobenzen	50.000 UG/L	Ok
1236.	382751.	3.615 1236. 1206962.	87.236

Deleting peaks from INT file: UDIR87  
Minimum area: 10 % of area of closest Int. Std.  
Number of peaks: 25  
Number of peaks remaining: 25

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: 25  
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

TIC NUMBER:1

1. Nonane (8CI9CI)
2. Octane, 2,4,6-trimethyl- (9CI)
3. Hexane, 3-ethyl-4-methyl- (8CI9CI)
4. Octane, 2,5,6-trimethyl- (9CI)
5. Heptane, 2,4-dimethyl- (8CI9CI)
6. Hexane, 2,3,4-trimethyl- (8CI9CI)

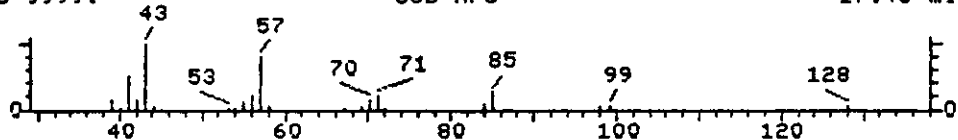
128 C9H20  
 156 C11H24  
 128 C9H20  
 156 C11H24  
 128 C9H20  
 128 C9H20

*Unk alkane  
 DLJ  
 101091*

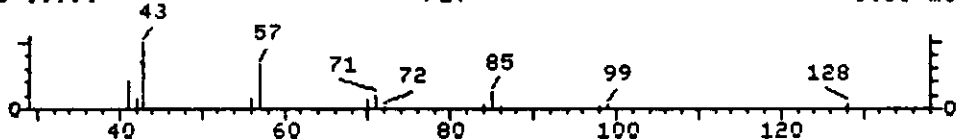
Sample file: >F2872      Spectrum #: 1326  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	111842	6110	"BIGDB	83	13	1	0	98	0	72	93
2.	60	62016379	6004	"BIGDB	43	42	2	0	80	15	30	14
3.	53*	3074779	3606	"BIGDB	48	48	2	0	62	22	22	25
4.	42	62016142	6003	"BIGDB	41	46	2	0	71	25	17	13
5.	40*	2213232	5920	"BIGDB	54	38	1	0	77	49	12	41
6.	40*	921471	5917	"BIGDB	52	38	1	0	70	49	12	41

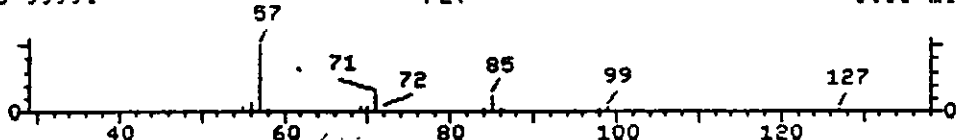
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, 5UL MED IS, EXT=3. Scan 1326  
 Bpk Ab 9999. SUB MPC 17.45 min.



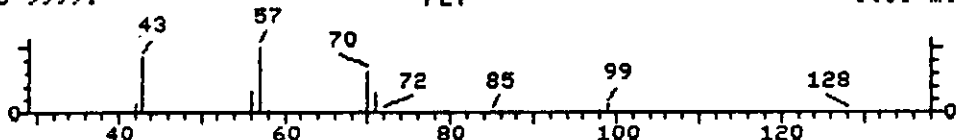
File "BIGDB Nonane (8CI9CI) Scan 6110  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB Octane, 2,4,6-trimethyl- (9CI) Scan 6004  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB Hexane, 3-ethyl-4-methyl- (8CI9CI) Scan 3606  
 Bpk Ab 9999. FLT 0.00 min.



NUMBER: 4

1. Octane, 3,6-dimethyl- (8CI9CI)
2. 1-Pentanol, 4-methyl-2-propyl- (9CI)
3. Cyclopropane, 1,2-dimethyl-3-pentyl- (9CI)
4. Decane, 2,6,7-trimethyl- (9CI)
5. 1-Octanol, 3,7-dimethyl- (8CI9CI)
6. 1-Decene, 4-methyl- (8CI9CI)

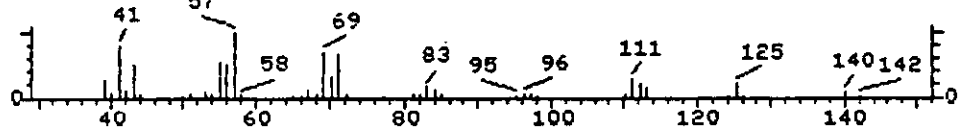
- 142 C10H22
- 144 C9H20
- 140 C10H20
- 134 C13H28
- 158 C10H22O
- 154 C11H22

Unk's  
 PBW  
 101091

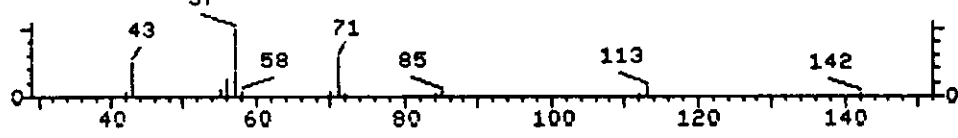
Sample file: >F2872      Spectrum #: 1594  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 49

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	34*	15869940	11043	"BIGDB	45	44	0	0	99	55	10	53
2.	27	54004410	3907	"BIGDB	50	48	1	0	89	44	8	15
3.	26*	62238055	3756	"BIGDB	48	53	0	0	51	58	7	57
4.	26	62108252	3963	"BIGDB	54	44	2	0	100	42	8	14
5.	25	106218	3699	"BIGDB	56	62	1	0	50	48	7	14
6.	25	13151296	10843	"BIGDB	37	50	1	0	46	48	7	14

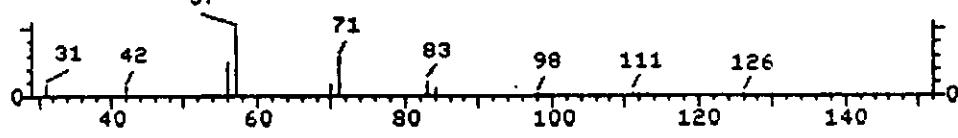
File >F2872 BAL. 10041-4 100ULX.V6. CH#02, 5UL MED IS, EXT=3. Scan 1594  
 Spk Ab 9999. SUB MPC 20.58 min.



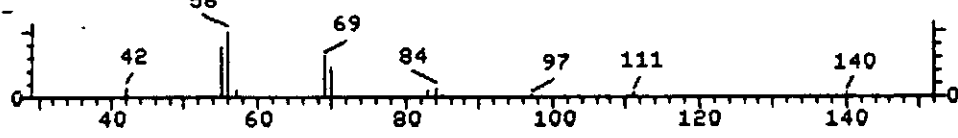
File "BIGDB Octane, 3,6-dimethyl- (8CI9CI) Scan 11043  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB 1-Pentanol, 4-methyl-2-propyl- (9CI) Scan 3907  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclopropane, 1,2-dimethyl-3-pentyl- (9CI) Scan 3756  
 Spk Ab 9999. FLT 0.00 min.



*Unk Alkane*  
*TSJ*  
*101091*

2 NUMBER: 5

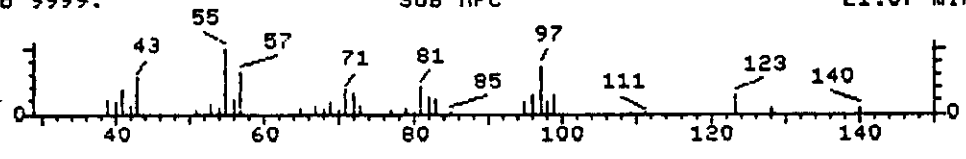
1. Cyclopentane, 1-methyl-3-(2-methylpropyl)- (9CI)
2. 3-Butene-1,2-diol, 1-(2-furanyl)-2-methyl- (9CI)
3. Cyclohexane, 1-methyl-3-(1-methylethyl)- (9CI)
4. 4H-1,2,4-Triazole, 4-ethyl- (9CI)
5. Cyclohexane, 1-methyl-3-propyl- (8CI9CI)
6. Cyclopentane, 2-isopropyl-1,3-dimethyl- (8CI)

- 140 C10H20
- 168 C9H12O3
- 140 C10H20
- 97 C6H7N3
- 140 C10H20
- 140 C10H20

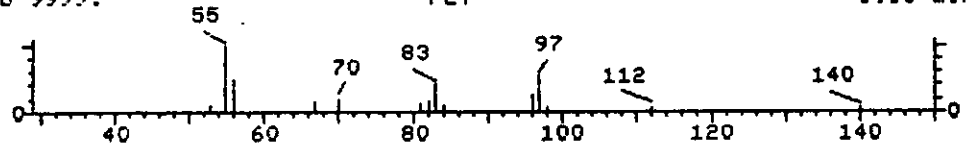
Sample file: >F2872      Spectrum #: 1636  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 47

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	25*	29053041	8350	"BIGDB	30	82	3	0	100	46	7	13
2.	24	18927203	8235	"BIGDB	48	49	2	0	74	43	8	12
3.	24*	16580248	8346	"BIGDB	31	56	0	0	100	52	7	24
4.	20*	43183557	8226	"BIGDB	28	53	1	0	62	53	5	15
5.	20*	4291809	8342	"BIGDB	29	63	1	0	90	53	5	16
6.	20*	32281859	8299	"BIGDB	29	81	3	0	100	54	5	13

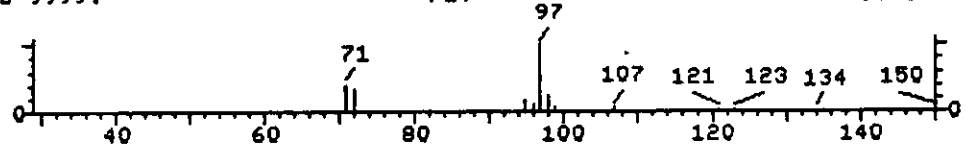
>F2872 BAL. 10041-4 100ULX.V6, CH#02, SUL MED IS, EXT=3. Scan 1636  
 Spk Ab 9999. SUB MPC 21.07 min.



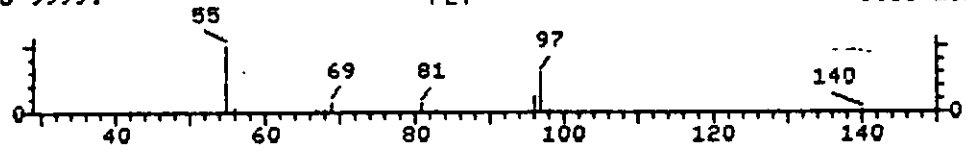
File "BIGDB Cyclopentane, 1-methyl-3-(2-methylpropyl)- (9CI) Scan 8350  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB 3-Butene-1,2-diol, 1-(2-furanyl)-2-methyl- (9CI) Scan 8235  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, 1-methyl-3-(1-methylethyl)- (9CI) Scan 8346  
 Spk Ab 9999. FLT 0.00 min.



Unknown  
 MB10/11/91  
 G7H2 Jones  
 DC  
 101091

NUMBER: 6

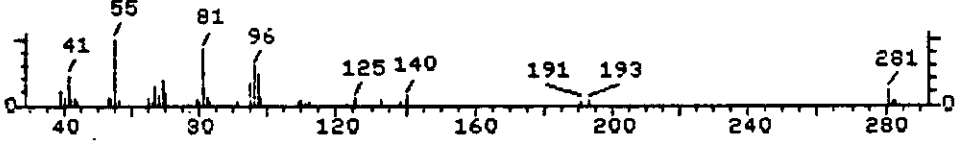
1. 1,4-Hexadiene, 2-methyl- (8CI9CI)
2. 1,3-Pentadiene, 2,4-dimethyl- (8CI9CI)
3. 2,4-Nonadienal, (E,E)- (8CI9CI)
4. Cyclopropane, trimethylmethylene- (9CI)
5. 2,4-Hexadiene, 3-methyl- (8CI9CI)
6. 2,4-Heptadiene, (E,E)- (9CI)

- 96 C7H12
- 96 C7H12
- 138 C9H14O
- 96 C7H12
- 96 C7H12
- 96 C7H12

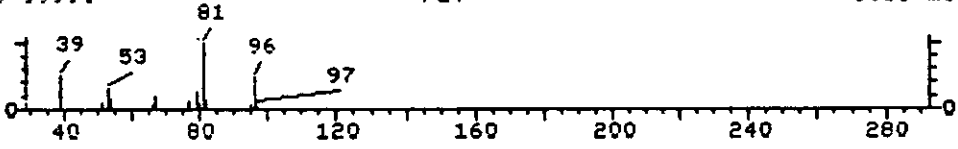
Sample file: >F2872      Spectrum #: 1651  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	25*	1119148	8080	"BIGDB	36	73	3	0	86	44	8	13
2.	25*	1000868	8077	"BIGDB	36	73	3	0	75	43	8	13
3.	24*	5910872	5260	"BIGDB	47	39	2	2	90	55	7	21
4.	20*	34462287	5210	"BIGDB	33	70	3	0	86	53	5	13
5.	20*	28823429	8062	"BIGDB	30	73	3	0	86	53	5	13
6.	20*	2384943	5204	"BIGDB	23	74	3	0	86	53	5	12

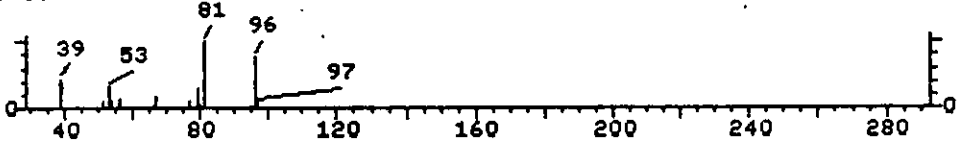
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, SUL MED IS, EXT=3. Scan 1651  
 Bpk Ab 9999. SUB MPC 21.24 min.



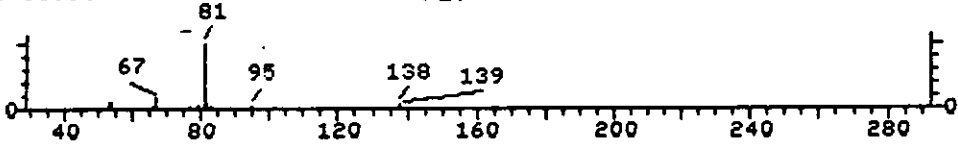
File "BIGDB 1,4-Hexadiene, 2-methyl- (8CI9CI) Scan 8080  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB 1,3-Pentadiene, 2,4-dimethyl- (8CI9CI) Scan 8077  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB 2,4-Nonadienal, (E,E)- (8CI9CI) Scan 5260  
 Bpk Ab 9999. FLT 0.00 min.



*Chk Alkane*  
*PLC*  
*101091*

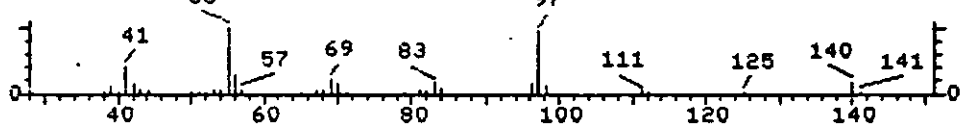
NUMBER: 7

- |  |            |
|--|------------|
| 1. Cyclohexane, 1-methyl-2-propyl- (8CI9CI)            | 140 C10H20 |
| 2. Cyclohexane, 1-methyl-3-propyl- (8CI9CI)            | 140 C10H20 |
| 3. Cyclohexane, 1-ethyl-2-methyl-, cis- (8CI9CI)       | 126 C9H18  |
| 4. Cyclohexane, 1-ethyl-2-methyl-, trans- (8CI9CI)     | 126 C9H18  |
| 5. Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI) | 140 C10H20 |
| 6. Cyclohexane, 1,4-dimethyl-, cis- (8CI9CI)           | 112 C8H16  |

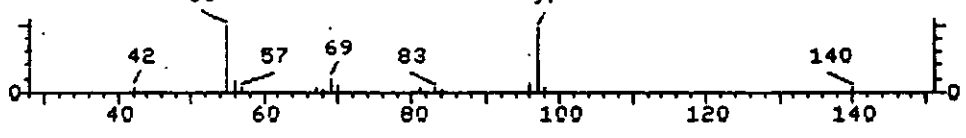
Sample file: >F2872      Spectrum #:      1671  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	82*	4291796	8341	"BIGDB	66	23	0	0	99	23	41	78
2.	62*	4291809	8342	"BIGDB	57	35	2	0	100	29	25	43
3.	55	4923777	8305	"BIGDB	60	32	1	0	84	23	22	27
4.	53	4923788	8211	"BIGDB	60	28	0	0	95	32	20	37
5.	52*	489203	8206	"BIGDB	32	65	3	0	100	20	20	13
6.	45	624293	8259	"BIGDB	60	42	2	0	75	23	17	16

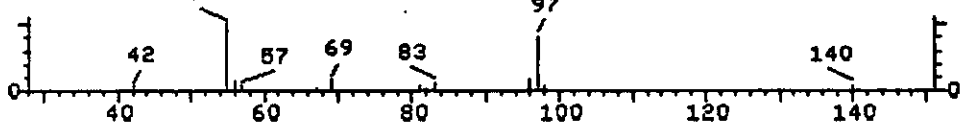
>F2872 BAL. 10041-4 100ULX.V6, CH#02, 5UL MED IS, EXT=3. Scan 1671  
 Bpk Ab 9999. SUB MPC 21.48 min.



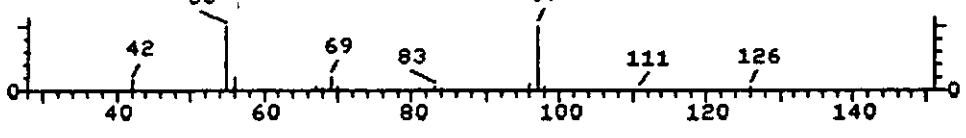
File "BIGDB Cyclohexane, 1-methyl-2-propyl- (8CI9CI) Scan 8341  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, 1-methyl-3-propyl- (8CI9CI) Scan 8342  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, 1-ethyl-2-methyl-, cis- (8CI9CI) Scan 8305  
 Bpk Ab 9999. FLT 0.00 min.



000053

NUMBER: 9

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

*Decane*

*MB 10/11/91*

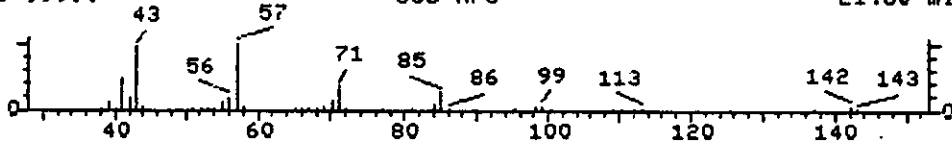
*Unk Alkane*

- 142 C10H22
- 156 C11H24
- 184 C13H28
- 184 C13H28
- 184 C13H28
- 170 C12H26

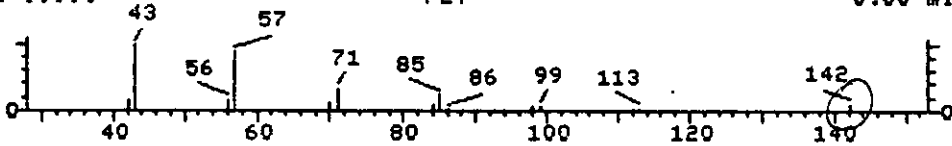
Sample file: >F2872      Spectrum #:      1699  
 Search speed: 2      Tilting option: S      No. of ion ranges searched:      52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	124185	16061	"BIGDB	91	9	1	1	88	0	72	92
2.	70	62016379	6004	"BIGDB	59	26	2	0	100	9	42	19
3.	63	62108229	3927	"BIGDB	58	33	0	0	94	19	30	35
4.	60	17312822	3957	"BIGDB	53	45	2	0	72	11	30	14
5.	60	1560970	6149	"BIGDB	53	48	2	0	85	12	30	12
6.	58	1002171	6094	"BIGDB	60	32	2	0	87	17	25	21

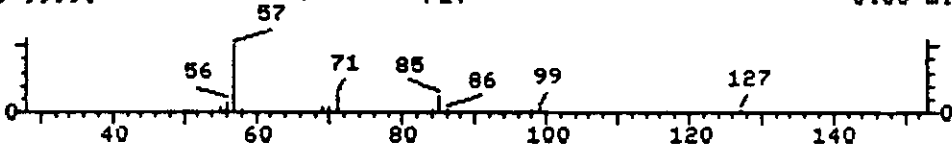
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, SUL MED IS, EXT=3. Scan 1699  
 Spk Ab 9999. SUB MPC 21.80 min.



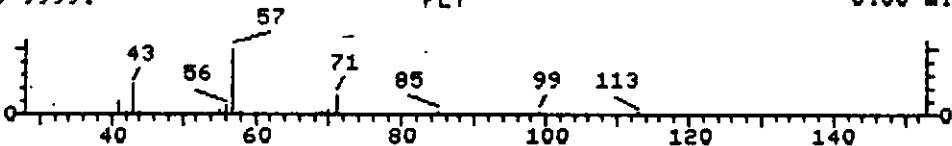
File "BIGDB Decane (8CI9CI) Scan 16061  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Octane, 2,4,6-trimethyl- (9CI) Scan 6004  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Decane, 2,5,9-trimethyl- (9CI) Scan 3927  
 Spk Ab 9999. FLT 0.00 min.





Unknown alkane

MB 10/11/91

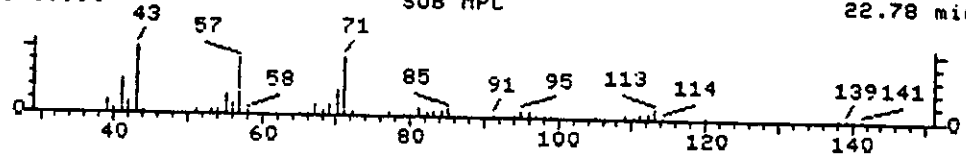
TIC NUMBER: 11

1. Nonane, 2,6-dimethyl- (8CI9CI)	156 C11H24
2. Octane, 3,3-dimethyl- (8CI9CI)	142 C10H22
3. Heptane, 2,5,5-trimethyl- (8CI9CI)	142 C10H22
4. Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22
5. Decane, 4-methyl- (8CI9CI)	156 C11H24
6. Octane, 2,3,6-trimethyl- (9CI)	156 C11H24

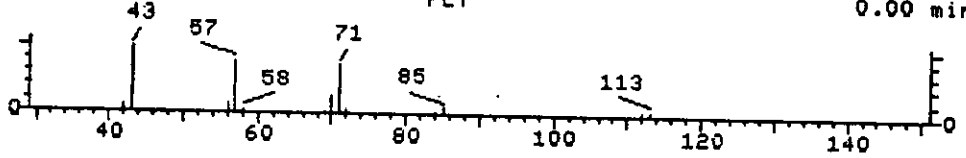
Sample file: >F2872      Spectrum #: 1783  
Search speed: 2      Tilting option: S      No. of ion ranges searched: 46

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	98	17302282	3956	"BIGDB	71	20	0	0	100	3	65	59
2.	96	4110445	3949	"BIGDB	62	36	0	0	83	5	60	39
3.	93	1189997	3946	"BIGDB	50	40	0	0	91	5	57	29
4.	79	52896909	3958	"BIGDB	59	35	0	0	81	10	48	36
5.	76	2847725	3947	"BIGDB	67	34	1	0	89	6	45	27
6.	76	62016335	3961	"BIGDB	49	43	0	0	81	6	45	28

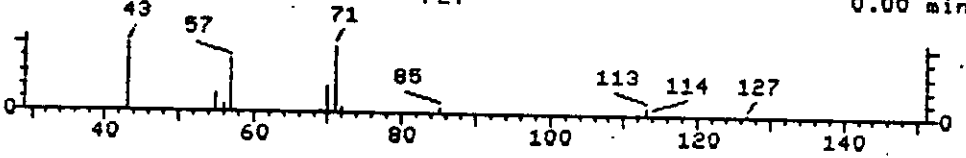
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, 5UL MED IS, EXT=3. Scan 1783  
Spk Ab 9999. SUB MPC 22.78 min.



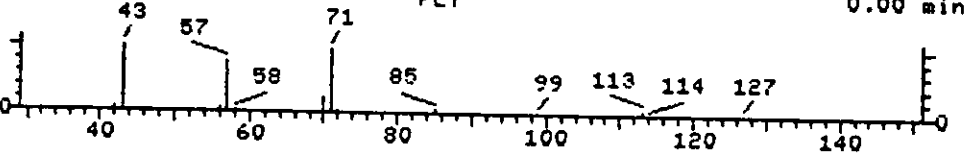
File "BIGDB Nonane, 2,6-dimethyl- (8CI9CI) Scan 3956  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Octane, 3,3-dimethyl- (8CI9CI) Scan 3949  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Heptane, 2,5,5-trimethyl- (9CI9CI) Scan 3946  
Spk Ab 9999. FLT 0.00 min.



000055

Unknown alkane

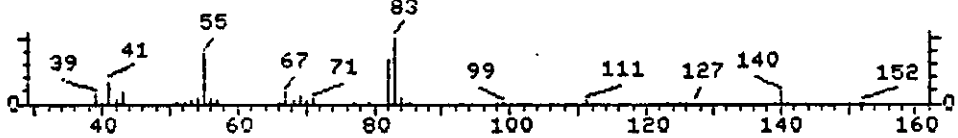
NUMBER: 12

- |   |             |     |        |
|---|-------------|-----|--------|
| 1. Cyclohexane, (2-methylpropyl)- (9CI) | MB 10/11/91 | 140 | C10H20 |
| 2. Cyclohexane, undecyl- (9CI)          |             | 238 | C17H34 |
| 3. Cyclohexane, octyl- (9CI)            |             | 196 | C14H28 |
| 4. Cyclohexane, hexyl- (9CI)            |             | 168 | C12H24 |
| 5. Cyclohexane, propyl- (8CI9CI)        |             | 126 | C9H18  |
| 6. Cyclohexane, eicosyl- (9CI)          |             | 364 | C26H52 |

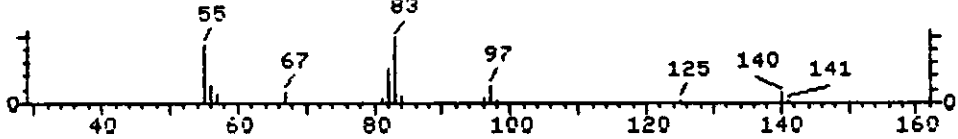
Sample file: >F2872      Spectrum #: 1852  
 Search speed: 2      Tilting option: S      No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	70*	1678984	5636	"BIGDB	41	62	3	0	85	9	42	13
2.	70	54105667	5348	"BIGDB	74	42	2	0	80	10	42	18
3.	67	1795159	5581	"BIGDB	75	33	2	0	87	12	34	25
4.	67	4292755	5564	"BIGDB	67	28	2	0	70	13	34	23
5.	67	1678928	5625	"BIGDB	60	37	2	0	70	12	34	21
6.	60	4443554	5347	"BIGDB	61	69	2	0	69	13	30	12

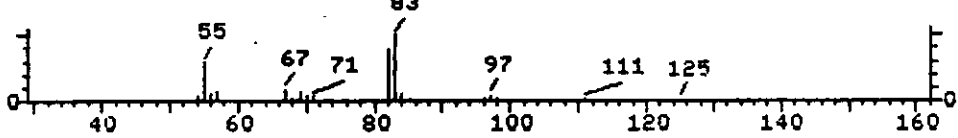
>F2872 BAL. 10041-4 100ULX.V6, CH#02, 5UL MED IS, EXT=3. Scan 1852  
 Spk Ab 9999. SUB MPC 23.59 min.



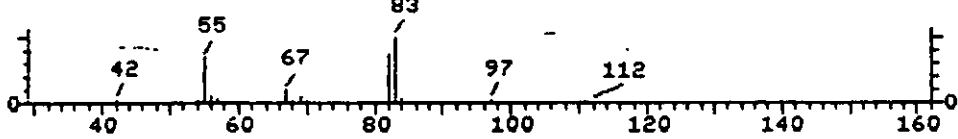
File "BIGDB Cyclohexane, (2-methylpropyl)- (9CI) Scan 5636  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, undecyl- (9CI) Scan 5348  
 Spk Ab 9999. FLT 0.00 min.



File "BIGDB Cyclohexane, octyl- (9CI) Scan 5581  
 Spk Ab 9999. FLT 0.00 min.



NUMBER: 13

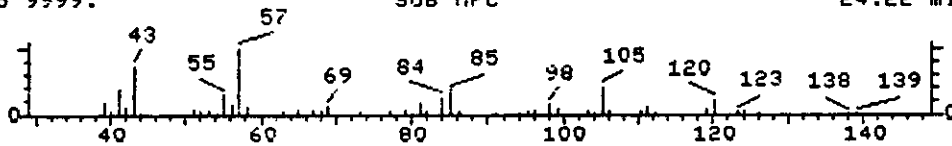
Unknown MB 10/1/91

- 1. Cyclopentanol, 2-chloro-, trans- (8CI9CI) 120 C5H9ClO
- 2. 1-Penten-3-ol (8CI9CI) 96 C5H10O
- 3. 1-Pentene, 4,4-dimethyl- (8CI9CI) 98 C7H14
- 4. Propane, 1-(2,2-dichloro-1-methylcyclopropyl)-2,2-di methyl- (8CI) 194 C9H16Cl2
- 5. Pentane, 2,3,3,4-tetramethyl- (8CI9CI) 128 C9H20
- 6. Pentane, 3-ethyl-2,4-dimethyl- (8CI9CI) 128 C9H20

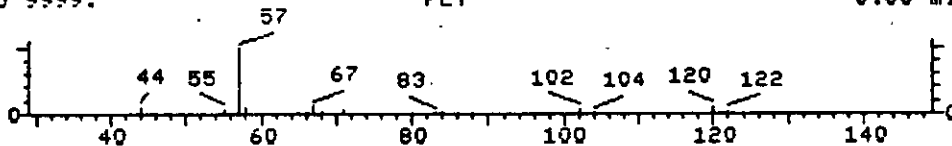
Sample file: >F2872 Spectrum #: 1906  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 65

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	25*	20377804	1215	"BIGDB	22	56	2	0	85	47	7	13
2.	25*	616251	136	"BIGDB	23	74	2	0	97	47	7	13
3.	20*	762629	1183	"BIGDB	20	56	2	0	67	54	5	13
4.	15	24551846	1216	"BIGDB	39	39	2	0	100	56	3	13
5.	11	16747389	5967	"BIGDB	40	42	2	0	61	63	2	14
6.	11	1068877	5918	"BIGDB	35	48	2	0	74	63	2	12

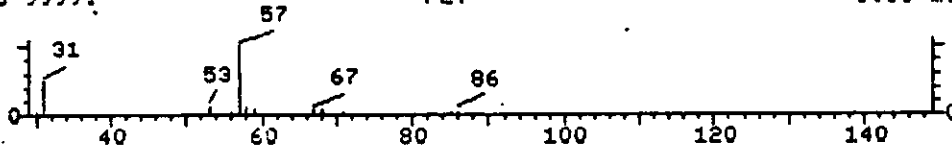
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, SUL MED IS, EXT=3. Scan 1906  
 Bpk Ab 9999. SUB MPC 24.22 min.



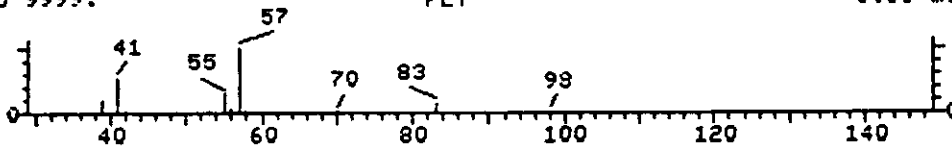
File "BIGDB Cyclopentanol, 2-chloro-, trans- (8CI9CI) Scan 1215  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB 1-Penten-3-ol (8CI9CI) Scan 136  
 Bpk Ab 9999. FLT 0.00 min.



File "BIGDB 1-Pentene, 4,4-dimethyl- (8CI9CI) Scan 1183  
 Bpk Ab 9999. FLT 0.00 min.



C<sub>10</sub>H<sub>18</sub> isomer

MB 10/11/91

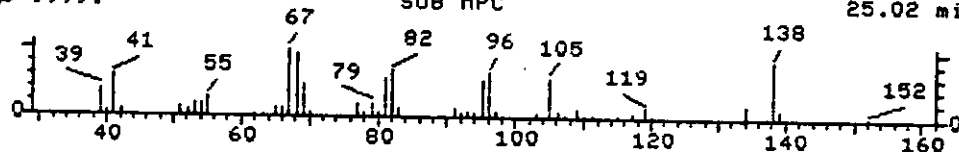
NUMBER: 15

- |   |                                     |
|---|-------------------------------------|
| 1. Naphthalene, decahydro- (8CI9CI)                     | 138 C <sub>10</sub> H <sub>18</sub> |
| 2. 1,1'-Bicyclopentyl (9CI)                             | 138 C <sub>10</sub> H <sub>18</sub> |
| 3. Naphthalene, decahydro-, trans- (8CI9CI)             | 138 C <sub>10</sub> H <sub>18</sub> |
| 4. Spiro[4.5]decane (8CI9CI)                            | 138 C <sub>10</sub> H <sub>18</sub> |
| 5. m-Menth-6-ene, (R)-(+)- (8CI)                        | 138 C <sub>10</sub> H <sub>18</sub> |
| 6. Cyclohexene, 3-methyl-6-(1-methylethyl)-, trans- (9C | 138 C <sub>10</sub> H <sub>18</sub> |

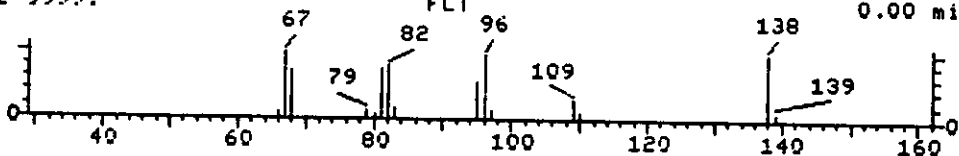
Sample file: >F2872      Spectrum #: 1974  
Search speed: 2      Tilting option: S      No. of ion ranges searched: 43

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	93*	91178	15353	"BIGDB	92	35	2	0	68	15	51	71
2.	93*	1636391	3353	"BIGDB	86	32	1	0	92	25	47	83
3.	75*	493027	15369	"BIGDB	84	38	2	0	80	16	35	65
4.	47*	176636	15365	"BIGDB	69	55	2	0	65	42	16	49
5.	37*	13837702	5443	"BIGDB	50	58	3	0	277	30	14	14
6.	36*	1124261	15376	"BIGDB	34	69	3	0	351	27	14	13

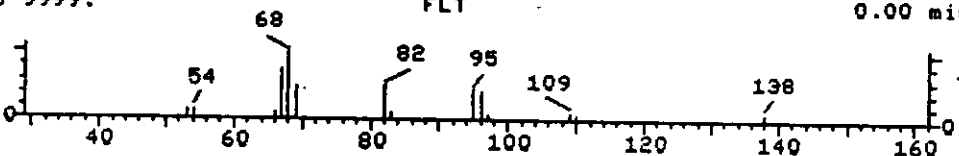
File >F2872 BAL. 10041-4 100ULX.V6, CH#02, SUL MED IS, EXT=3. Scan 1974  
Spk Ab 9999. SUB MPC 25.02 min.



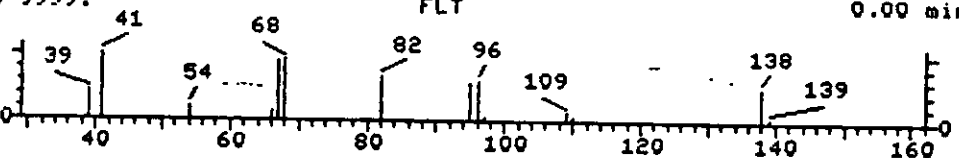
File "BIGDB Naphthalene, decahydro- (8CI9CI) Scan 15353  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB 1,1'-Bicyclopentyl (9CI) Scan 3353  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Naphthalene, decahydro-, trans- (8CI9CI) Scan 15369  
Spk Ab 9999. FLT 0.00 min.



000058

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-27-QA1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 10041-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2689

Level: (low/med) LOW Date Received: 08/30/91

‡ Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/02/91

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	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.

9-27-QA1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 10041-05  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2689  
Level: (low/med) LOW Date Received: 08/30/91  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/02/91  
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

DELIVERABLES INDEX

Client: Balsam Environmental Consultants, Inc.  
 Project Name: UCC Soil Analysis 09/30/91  
 Erco Project Number: 010041

	<u>Page</u>
<b>I. INTRODUCTION</b>	
A. Case Narrative	<u>1</u>
B. Sample Description Information	<u>3</u>
C. Sample Analysis Instrument Key	<u>4</u>
D. Internal Standard and Surrogate Key	<u>6</u>
E. Instrument Detection Limits	<u>7</u>
F. Chain-of-Custody Reports	<u>8</u>
G. Data Reporting Qualifiers	<u>11</u>
<b>II. VOLATILES DATA</b>	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	<u>13</u>
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>NA</u>
3. Erco Method Blank Summary (Form VI)	<u>15</u>
4. GC/MS Tuning and Mass Calibration Summary (Form V)	<u>17</u>
5. Internal Standard Area Summary (Form VIII)	<u>20</u>
B. Sample Data (Form I, Form I-TIC, and Raw Data)	<u>22</u>
C. Standards Data	
1. Initial Calibration Data (Form VI)	<u>69</u>
2. Initial Calibration Standard Chromatograms	<u>71</u>
3. Continuing Calibration Data (Form VII)	<u>85</u>
4. Continuing Calibration Standard Chromatograms	<u>87</u>

DELIVERABLES INDEX (Cont.)

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 09/30/91  
Erco Project Number: 010041

II. VOLATILES DATA (Cont.)

Page

D. Raw QC Data

1. BFB Bar Graph and Mass Listing
2. Erco Blank Data
3. Matrix Spike/Matrix Spike Duplicate Data

93

99

NA

III. INORGANIC DATA

118

NA=Not applicable



n/c

Produced by: P  
Reviewed by: MB

Date: 10/2/91  
Date: 10/11/91

Data File: >F2689  
Page: 1

F2688  
MeCl<sub>2</sub>

Enseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: BALS 10041-5 5ML ✓  
Misc : U6 C6 5UL IS/S Id # UCC-9/27-QA1  
Injected : 10/02/91 00:09  
Analyst: KERYLYNN  
ID File: MOBID6  
Quant list threshold: 1.00

Units: UG/L  
Run Factor: 1.000 ✓  
Surrogate vol: .005

Surrogate Spike Recoveries *no unknowns*

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QC limits
CS15 D4-1,2-dichloroethane	.2500	.2716	109	76 114
CS05 D8-Toluene	.2500	.2458	98.3	88 110
CS10 Bromofluorobenzene	.2500	.2377	95.1	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
251	2.508	2.5	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

Data file: >F2689  
Sample: BALS 10041-5 5ML

Page: 2  
VCC-9/27-QA1

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)

000062

Diagnostic Quant Report

Data File: >F2689::D5      Injected at: 00:09 10/02/91  
 Quant'd : 00:36 10/02/91  
 ID File : MOBID6::MT      Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *CI01 Bromochloromethane	7.26	7.19	.07	128.0	72943	1.0000	50.00
2) C010 Chloromethane	2.67	0.00	--	50.0	0	1.1322	0.00
3) C020 Vinyl Chloride	2.81	0.00	--	62.0	0	1.2055	0.00
4) C015 Bromomethane	3.21	0.00	--	94.0	0	1.1318	0.00
5) C025 Chloroethane	3.33	0.00	--	64.0	0	.5994	0.00
6) C045 1,1-Dichloroethene	4.28	0.00	--	96.0	0	1.4660	0.00
7) C035 Acetone	4.35	0.00	--	43.0	0	.2433	0.00
8) C040 Carbon Disulfide	4.60	4.56	.04	76.0	1905	4.4588	.29
9) C030 Methylene Chloride	4.92	4.91	.01	84.0	5813	1.5886	2.51
10) CXXX Tert-butyl alcohol	5.07	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.30	0.00	--	96.0	0	1.7403	0.00
12) C055 Cis-1,2-dichloroethe	6.80	0.00	--	96.0	0	1.9068	0.00
13) CXXX Methyl tert-butyl et	5.29	0.00	--	73.0	0	2.9749	0.00
14) C050 1,1-Dichloroethane	5.90	0.00	--	63.0	0	3.3410	0.00
15) C060 Chloroform	7.33	7.34	.01	83.0	3170	3.8827	.56
16) C065 1,2-Dichloroethane	8.35	0.00	--	62.0	0	2.1923	0.00
17) C110 2-Butanone	6.81	0.00	--	72.0	0	.1173	0.00
18) CS15 D4-1,2-dichloroethan	8.21	8.23	.02	65.0	130166	1.6427	54.32
19) *CI10 1,4-Difluorobenzene	9.15	9.08	.07	114.0	417406	1.0000	50.00
20) C125 Vinyl Acetate	5.98	0.00	--	43.0	0	.6324	0.00
21) C115 1,1,1-Trichloroethan	7.66	0.00	--	97.0	0	.6048	0.00
22) C120 Carbon Tetrachloride	7.96	0.00	--	117.0	0	.5142	0.00
23) C165 Benzene	8.33	0.00	--	78.0	0	1.0481	0.00
24) C150 Trichloroethene	9.60	0.00	--	130.0	0	.4502	0.00
25) C140 1,2-Dichloropropane	10.07	0.00	--	63.0	0	.4286	0.00
26) C130 Bromodichloromethane	10.67	0.00	--	83.0	0	.6628	0.00
27) C175 2-Chloroethylvinylet	11.39	0.00	--	63.0	0	.1966	0.00
28) C143 Cis-1,3-Dichloroprop	11.72	0.00	--	75.0	0	.6373	0.00
29) C172 Trans-1,3-dichloropr	13.10	0.00	--	75.0	0	.4952	0.00
30) C160 1,1,2-Trichloroethan	13.56	0.00	--	97.0	0	.3279	0.00
31) C155 Dibromochloromethane	14.60	0.00	--	129.0	0	.5190	0.00
32) C180 Bromoform	18.75	0.00	--	173.0	0	.3145	0.00
33) *CI20 D5-Chlorobenzene	16.31	16.26	.05	117.0	318270	1.0000	50.00
34) CS05 D8-Toluene	12.40	12.38	.02	98.0	405950	1.2973	49.16
35) C205 4-Methyl-2-pentanone	12.17	0.00	--	43.0	0	.3755	0.00
36) C230 Toluene	12.57	0.00	--	92.0	0	.9417	0.00
37) C210 2-Hexanone	14.36	0.00	--	43.0	0	.2450	0.00
38) C220 Tetrachloroethene	13.97	0.00	--	164.0	0	.4947	0.00
39) C235 Chlorobenzene	16.35	0.00	--	112.0	0	1.1580	0.00
40) C240 Ethylbenzene	16.71	0.00	--	106.0	0	.5752	0.00
41) CXXX Xylenes (p)	17.09	0.00	--	106.0	0	.7213	0.00
42) CXXX Xylenes (o)	18.28	0.00	--	106.0	0	.7062	0.00
43) C245 Styrene	18.34	0.00	--	104.0	0	1.2348	0.00
44) C225 1,1,2,2-Tetrachloroe	20.50	0.00	--	83.0	0	.6717	0.00
45) CS10 Bromofluorobenzene	19.92	19.91	.01	95.0	226460	.7483	47.54
46) C335 Dichlorobenzene (m)	23.46	0.00	--	146.0	0	.9228	0.00
47) C340 Dichlorobenzene (p)	23.77	0.00	--	146.0	0	.9070	0.00
48) C350 Dichlorobenzene (o)	24.99	0.00	--	146.0	0	.9067	0.00

000083

Internal Standard Comparison

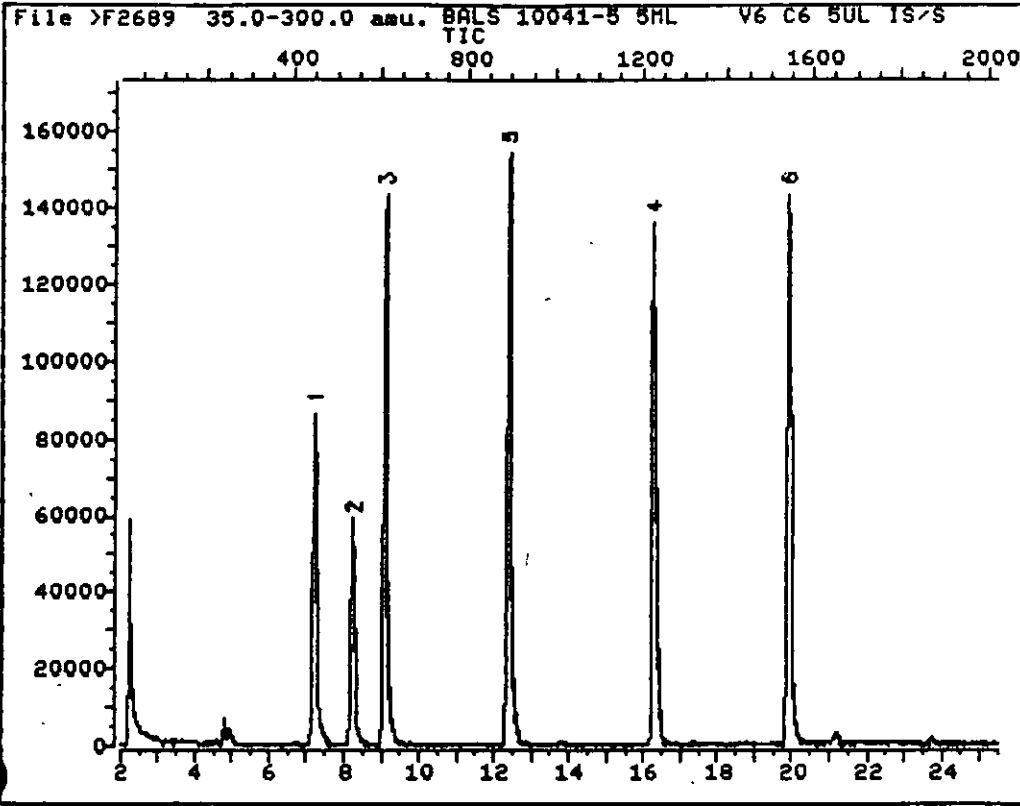
Sample: >F2689 Date injected: 10/02/91 Standard: >F2682

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	72943	76899	94.9
CI10 1,4-Difluorobenzene	417406	388768	107.4
CI20 D5-Chlorobenzene	318270	293543	108.4

% = (Sample Area/Std Area)\*100

\* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2689::D5  
Name: BALS 10041-5 5ML  
Misc: U6 C6 5UL IS/S

Quant Output File: ^F2689::D7  
Instrument ID: U6

*Id# UCC-9/27-QA1*

Id File: MOBID6::MT  
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
Last Calibration: 910814 09:37 Last Qcal Time: 911001 18:55

Operator ID: KERYLYNN  
Quant Time : 911002 00:36  
Injected at: 911002 00:09

QUANT REPORT

Page 1

Operator ID: KERYLYNN  
 Output File: ^F2689::D7  
 Data File: >F2689::D5  
 Name: BALS 10041-5 5ML  
 Misc: V6 C6 5UL IS/S

Quant Rev: 7      Quant Time: 911002 00:36  
 Injected at: 911002 00:09  
 Dilution Factor: 1.00000  
 Instrument ID: V6

*UCC-9/27-QA1*

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO

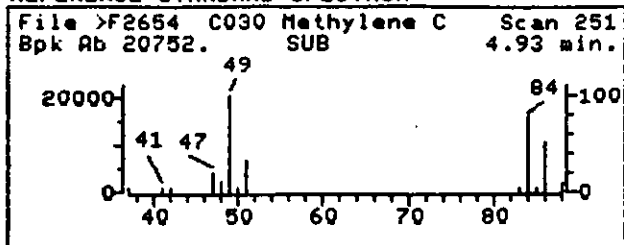
Last Calibration: 910814 09:37

Last Qcal Time: 911001 18:55

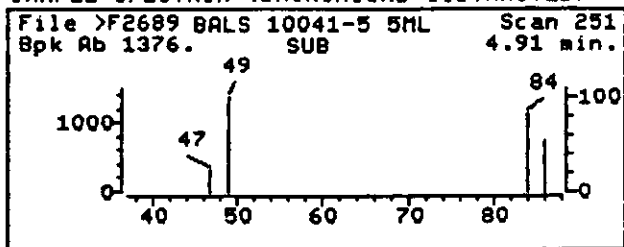
Compound	R.T.	Q ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.19	128.0	72943	50.00	UG/L	66
8) C040 Carbon Disulfide	4.56	76.0	1905	.293	UG/L	100
9) C030 Methylene Chloride	4.91	84.0	5813	2.51	UG/L	79
15) C060 Chloroform	7.34	83.0	3170	.560	UG/L	79
18) CS15 D4-1,2-dichloroethane	8.23	65.0	130166	54.32	UG/L	90
19) *CI10 1,4-Difluorobenzene	9.08	114.0	417406	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.26	117.0	318270	50.00	UG/L	100
34) CS05 D8-Toluene	12.38	98.0	405950	49.16	UG/L	96
) CS10 Bromofluorobenzene	19.91	95.0	226460	47.54	UG/L	74

\* Compound is ISTD

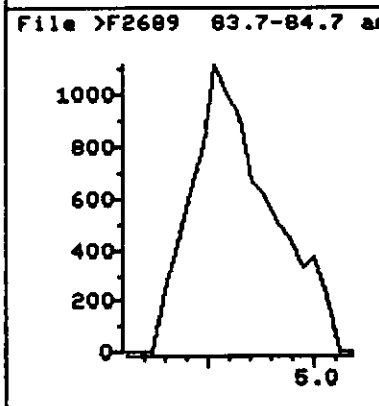
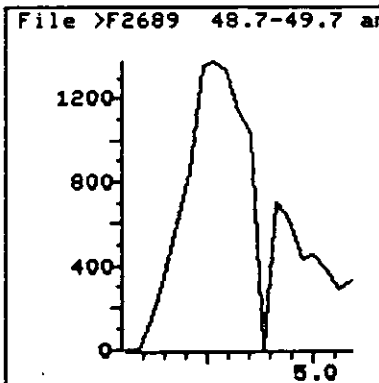
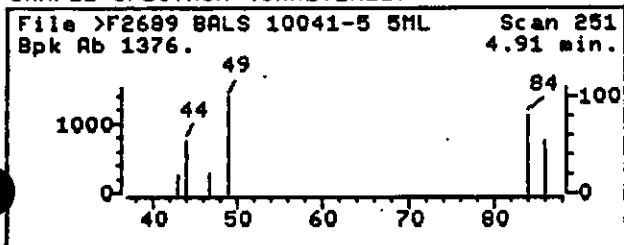
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2689::D5  
Name: BALS 10041-5 5ML  
Misc: U6 C6 5UL IS/S VCC-9/27-QA1  
Quant Time: 911002 00:36  
Injected at: 911002 00:09  
Last Qcal Time: 911001 18:55

Quant Output File: ^F2689::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37

Compound No : 9  
Compound Name : C030 Methylene Chloride  
Scan Number : 251  
Retention Time: 4.91 min.  
Quant Ion : 84.0  
Area : 5813  
Concentration : 2.51 UG/L  
q-value : 79

Data Reduced by : PO Date: 10/2/91  
Data Reviewed by : MB Date: 10/11/91

Data File: >F2689

Enseco TIC Report (page 1)

Sample: BALS 10041-5 5ML Run Factor: 1.00  
Conditions: V6 C6 5UL IS/S OCC-9/27-QA1 Analyst: KERYLYNN

#	Scan	Q	C	Concentration In Sample (UG/L)	CAS #	Compound
---	------	---	---	--------------------------------------	-------	----------

no unknowns



6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 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

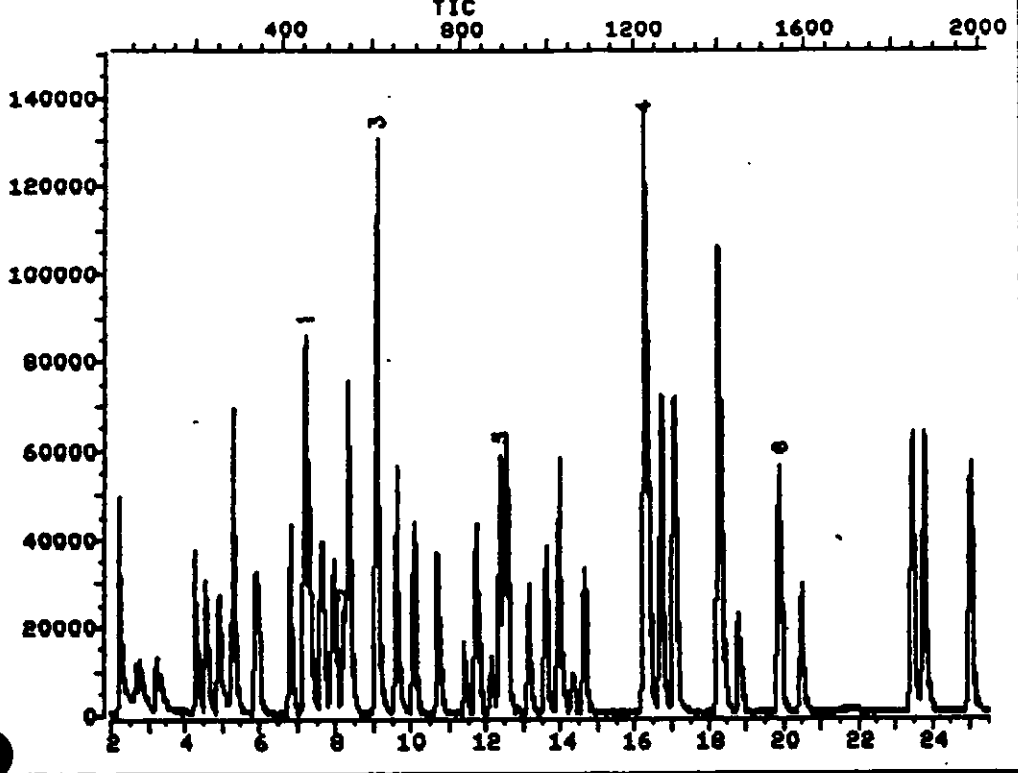
Min  $\overline{RRF}$  for SPCC(%) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(\*) = 30.0%

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-Dichloropropane	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 >F2560 35.0-300.0 amu. V610 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

000070

QUANT REPORT

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: D8624 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	7.20	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)	*CI10 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)	*CI20 O5-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	9000071
41)	CXXX Xylenes (p)	17.08	106.0	85811	21.55	UG/L	95

QUANT REPORT

Page 2

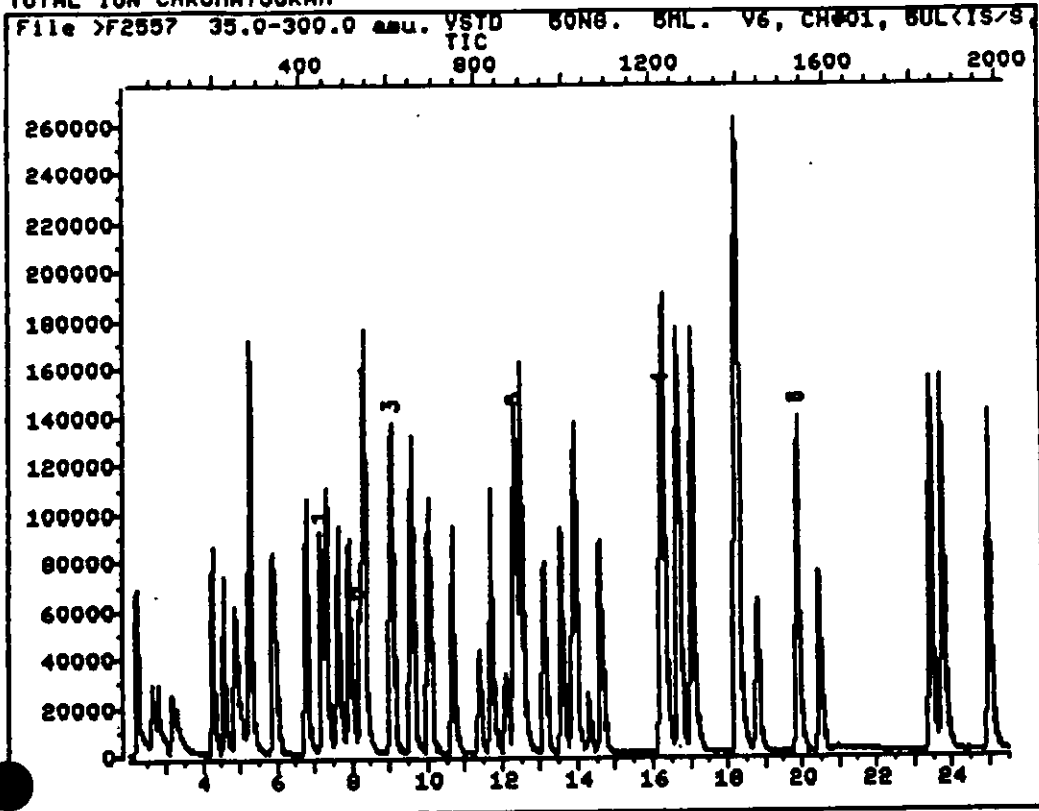
Operator ID: KERYLYNN                      Quant Rev: 7            Quant Time: 910922 13:49  
 Output File: ^F2560::D7                    Injected at: 910922 13:22  
 Data File: >F2560::D4                    Dilution Factor: 1.00000  
 Name: USTD 20NG. 5ML.                    Instrument ID: U6  
 Misc: 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
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	71037	20.06	UG/L	90
45)	C510 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

TOTAL ION CHROMATOGRAM



Data File: >F2557::D4                    Quant Output File: ^F2557::D7  
Name: USTD 50NG. 5ML.                    Instrument ID: U6  
Misc: V6, 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

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-Dichloropropane	11.72	75.0	234502	51.26	UG/L	93
29)	C172 Trans-1,3-dichloropropane	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	92
42)	CXXX Xylenes (o)	18.25	104.0	184544	47.97	UG/L	97

000074

QUANT REPORT

Page 2

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

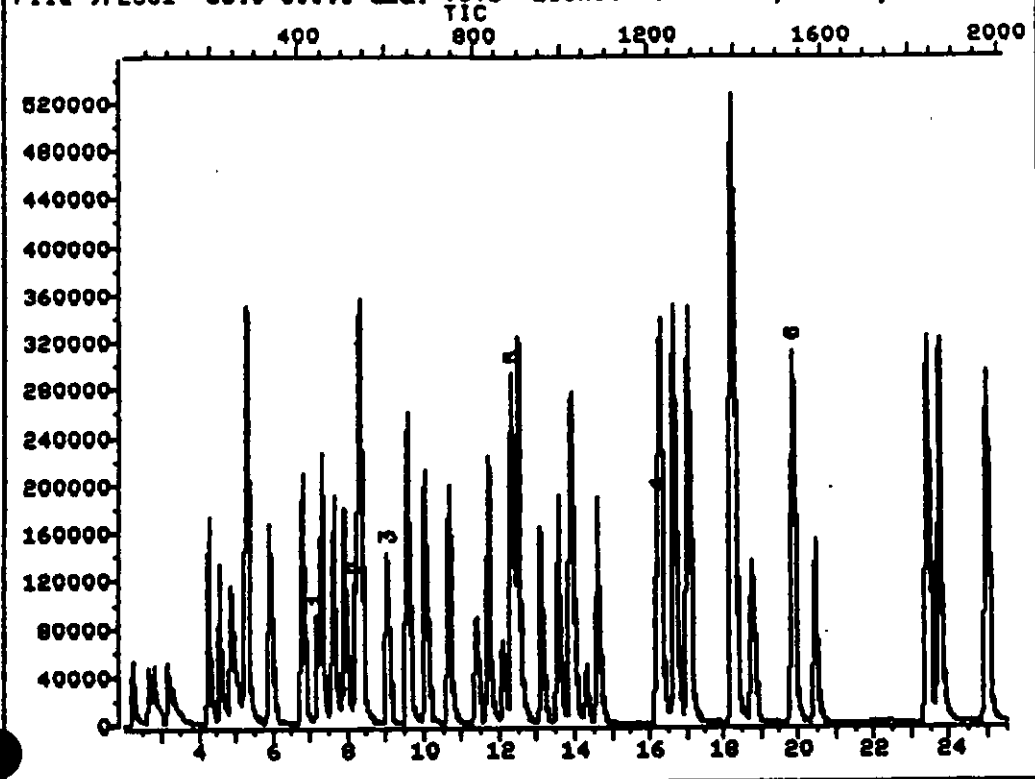
ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 910918 21:59

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 100NG. 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

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	97
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	97

000097

QUANT REPORT

Page 2

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

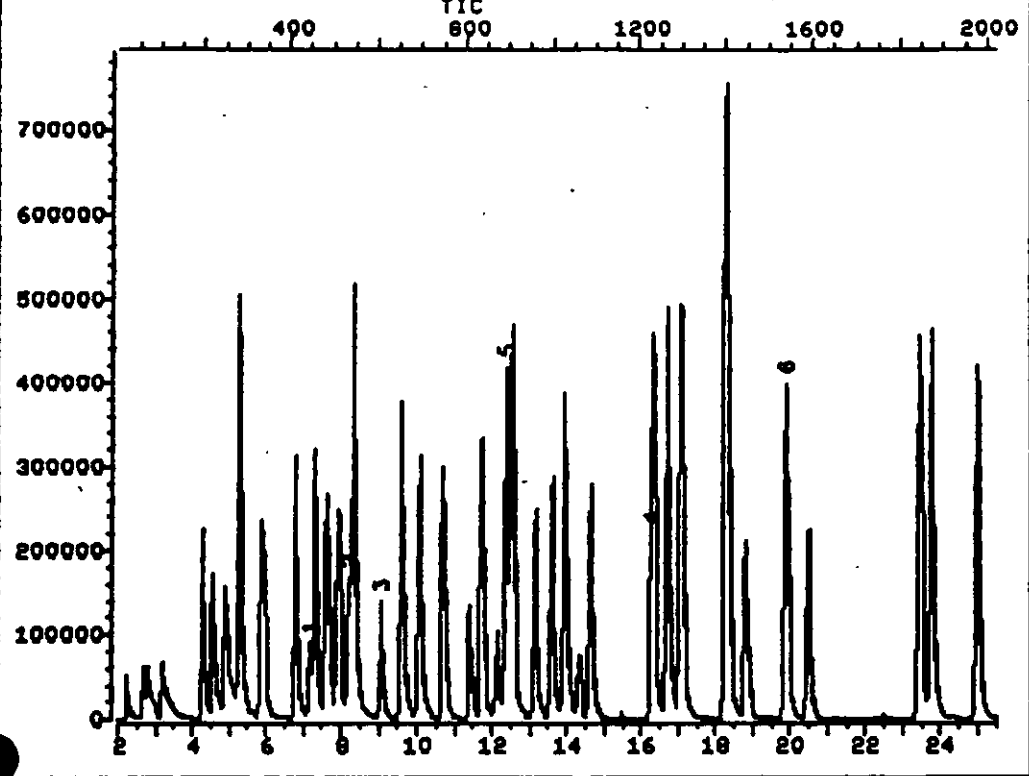
ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Qual Time: 910922 11:10

	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

File >F2562 35.0-300.0 amu. VSTD 150NG. 5ML. U6, CH#02, 5UL(150IS)



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

Page 1

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-Dichloroethane	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	85
41)	CXXX Xylenes (p)	17.09	106.0	530855	134.64	UG/L	94

000080

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

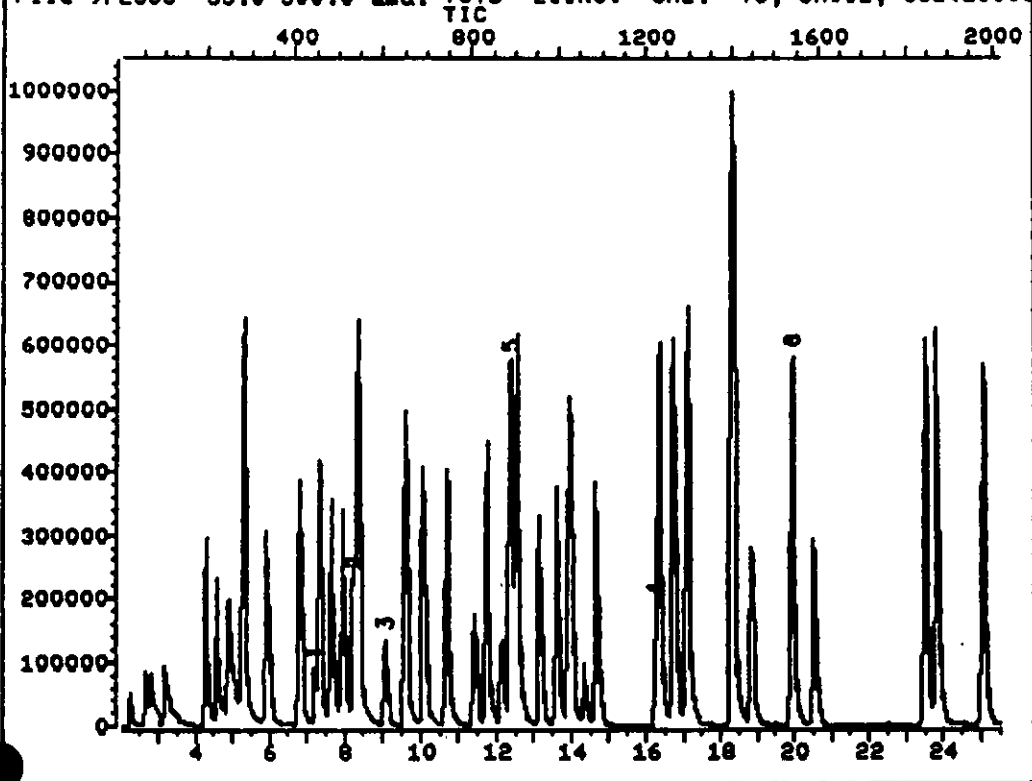
ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 910922 11:10

	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. V6, CH#02, 5UL(200IS



Data File: >F2563::D4

Quant Output File: ^F2563::D7

Name: USTD 200NG. 5ML.

Instrument ID: V6

Misc: V6, CH#02, 5UL(200IS/S), STD=50UL/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 15:57

Injected at: 910922 15:30

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 ERCC/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-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)	*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
34)	CS05 D8-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	198.58	UG/L	70
40)	C240 Ethylbenzene	16.72	106.0		601155	183.32	UG/L	92
41)	CXXX Xulenes (p)	17.10	106.0		761941M	179.66	UG/L	92

000089

QUANT REPORT

Page 2

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
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.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Instrument ID: V6 Calibration date: 10/01/91 Time: 1855  
 Lab File ID: F2682 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%

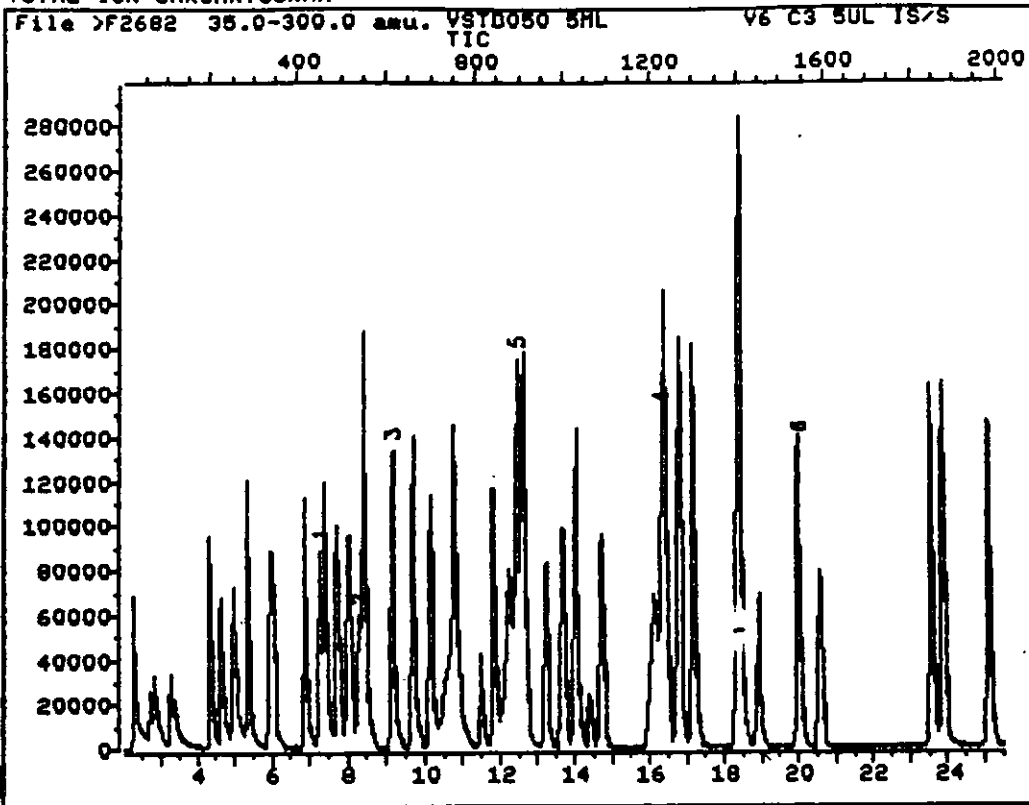
COMPOUND	RRF	RRF50	%D
Chloromethane	1.246	1.132	9.1
Bromomethane	1.055	1.132	-7.3
Vinyl Chloride	1.258	1.206	4.1
Chloroethane	0.651	0.599	8.0
Methylene Chloride	1.704	1.589	6.7
Acetone	0.211	0.243	-15.2
Carbon Disulfide	4.156	4.459	-7.3
1,1-Dichloroethene	1.387	1.466	-5.7
1,1-Dichloroethane	3.250	3.341	-2.8
1,2-Dichloroethene (total)	1.727	1.740	-0.8
Chloroform	3.857	3.883	-0.7
1,2-Dichloroethane	2.171	2.192	-1.0
2-Butanone	0.111	0.117	-5.4
1,1,1-Trichloroethane	0.560	0.604	-7.9
Carbon Tetrachloride	0.479	0.514	-7.3
Vinyl Acetate	0.538	0.632	-17.5
Bromodichloromethane	0.622	0.662	-6.4
1,2-Dichloropropane	0.407	0.428	-5.2
cis-1,3-Dichloropropene	0.603	0.637	-5.6
Trichloroethene	0.415	0.450	-8.4
Dibromochloromethane	0.501	0.519	-3.6
1,1,2-Trichloroethane	0.316	0.328	-3.8
Benzene	1.001	1.048	-4.7
trans-1,3-Dichloropropene	0.470	0.495	-5.3
2-Chloroethylvinylether	0.190	0.197	-3.7
Bromoform	0.302	0.314	-4.0
4-Methyl-2-Pentanone	0.332	0.375	-13.0
2-Hexanone	0.236	0.245	-3.8
Tetrachloroethene	0.430	0.494	-14.9
1,1,2,2-Tetrachloroethane	0.596	0.671	-12.6
Toluene	0.839	0.940	-12.0
Chlorobenzene	1.057	1.156	-9.4
Ethylbenzene	0.509	0.574	-12.8
Styrene	1.098	1.233	-12.3
Xylene (total)	0.601	0.669	-11.3
Toluene-d8	1.246	1.295	-3.9
Bromofluorobenzene	0.742	0.747	-0.7
1,2-Dichloroethane-d4	1.759	1.643	6.6

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 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

TOTAL ION CHROMATOGRAM



Data File: >F2682::D5  
Name: VSTD050 5ML  
Misc: V6 C3 5UL IS/S

Quant Output File: ^F2682::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: 910928 10:25

Operator ID: KERYLYNN  
Quant Time : 911001 19:22  
Injected at: 911001 18:55

QUANT REPORT

Operator ID: KERYLYNN  
 Output File: ^F2682::D7  
 Data File: >F2682::D5  
 Name: USTD050 5ML  
 Misc: U6 C3 5UL IS/S

Quant Rev: 7      Quant Time: 911001 19:22  
 Injected at: 911001 18:55  
 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: 910928 10:25

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.26	128.0	76899	50.00	UG/L	66
2)	C010 Chloromethane	2.70	50.0	87062	45.44	UG/L	99
3)	C020 Vinyl Chloride	2.84	62.0	92702	52.26	UG/L	84
4)	C015 Bromomethane	3.24	94.0	87037	54.88	UG/L	97
5)	C025 Chloroethane	3.36	64.0	46093	42.45	UG/L	87
6)	C045 1,1-Dichloroethene	4.33	96.0	112736	55.31	UG/L	88
7)	C035 Acetone	4.40	43.0	18713	40.40	UG/L	29
8)	C040 Carbon Disulfide	4.64	76.0	342875	53.66	UG/L	100
9)	C030 Methylene Chloride	4.97	84.0	122160	46.32	UG/L	89
11)	C053 Trans-1,2-dichloroethene	5.35	96.0	133825	50.66	UG/L	97
12)	C055 Cis-1,2-dichloroethene	6.87	96.0	146634	48.85	UG/L	93
14)	C050 1,1-Dichloroethane	5.96	63.0	256919	50.34	UG/L	100
15)	C060 Chloroform	7.40	83.0	298573	50.43	UG/L	98
16)	C065 1,2-Dichloroethane	8.43	62.0	168586	50.28	UG/L	100
17)	C110 2-Butanone	6.88	72.0	9019	50.47	UG/L	90
18)	CS15 D4-1,2-dichloroethane	8.29	65.0	126322	47.99	UG/L	89
19)	*C110 1,4-Difluorobenzene	9.15	114.0	388768	50.00	UG/L	100
20)	C125 Vinyl Acetate	6.03	43.0	245866	51.69	UG/L	97
21)	C115 1,1,1-Trichloroethane	7.72	97.0	235114	52.16	UG/L	94
22)	C120 Carbon Tetrachloride	8.02	117.0	199910	50.80	UG/L	96
23)	C165 Benzene	8.39	78.0	407470	50.30	UG/L	100
24)	C150 Trichloroethene	9.68	130.0	175040	50.36	UG/L	91
25)	C140 1,2-Dichloropropane	10.15	63.0	166616	51.88	UG/L	100
26)	C130 Bromodichloromethane	10.76	83.0	257675	53.94	UG/L	79
27)	C175 2-Chloroethylvinylether	11.48	63.0	76449	47.03	UG/L	96
28)	C143 Cis-1,3-Dichloropropene	11.81	75.0	262647	57.22	UG/L	96
29)	C172 Trans-1,3-dichloropropene	13.21	75.0	177114	49.05	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.66	97.0	127495	53.99	UG/L	81
31)	C155 Dibromochloromethane	14.71	129.0	201780	54.36	UG/L	94
32)	C180 Bromoform	18.90	173.0	122268	56.70	UG/L	96
33)	*C120 D5-Chlorobenzene	16.31	117.0	293543	50.00	UG/L	100
34)	CS05 D8-Toluene	12.44	98.0	380808	51.91	UG/L	87
35)	C205 4-Methyl-2-pentanone	12.21	43.0	110233	51.94	UG/L	90
36)	C230 Toluene	12.60	92.0	276443	52.28	UG/L	90
37)	C210 2-Hexanone	14.40	43.0	71911	51.35	UG/L	97
38)	C220 Tetrachloroethene	14.01	164.0	145225	53.60	UG/L	87
39)	C235 Chlorobenzene	16.40	112.0	339937	52.18	UG/L	66
40)	C240 Ethylbenzene	16.76	106.0	168858	53.38	UG/L	97
41)	CXXX Xylenes (p)	17.14	106.0	211737	53.07	UG/L	91
42)	CXXX Xylenes (o)	18.34	106.0	207308	56.14	UG/L	96
43)	C245 Styrene	18.40	104.0	362475	55.40	UG/L	100
44)	C225 1,1,2,2-Tetrachloroethane	20.56	83.0	197164	56.66	UG/L	94

000088

QUANT REPORT

Page 2

Operator ID: KERYLYNN  
 Output File: ^F2682::D7  
 Data File: >F2682::D5  
 Name: USTD050 5ML  
 Misc: U6 C3 5UL IS/S

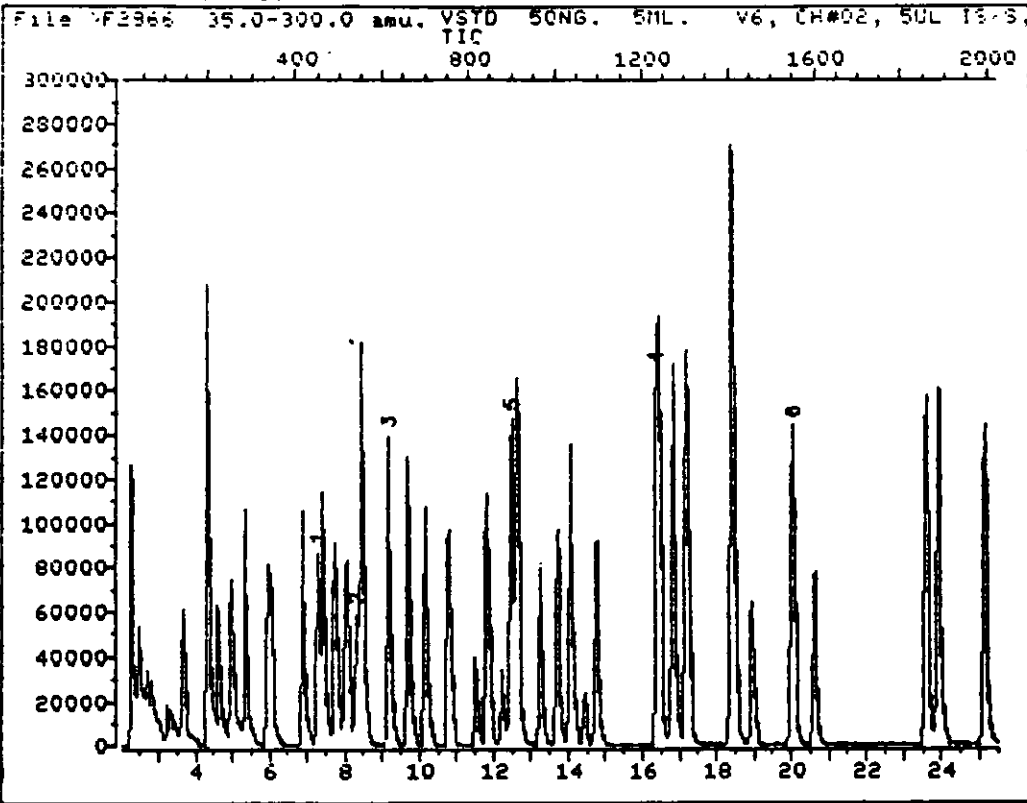
Quant Rev: 7      Quant Time: 911001 19:22  
                   Injected at: 911001 18:55  
 Dilution Factor: 1.00000  
 Instrument ID: U6

ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO  
 Last Calibration: 910814 09:37      Last Qcal Time: 910928 10:25

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	C335 Dichlorobenzene (m)	23.53	146.0	291429	49.97	UG/L	100
47)	C340 Dichlorobenzene (p)	23.85	146.0	266249	49.98	UG/L	100
48)	C350 Dichlorobenzene (o)	25.07	146.0	266146	50.60	UG/L	100
49)	C250 Xylenes (total)	18.34	106.0	196724	53.48	UG/L	95

\* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F2866::D6                    Quant Output File: ^F2866::D7  
Name: VSTD 50NG. 5ML.                    Instrument ID: V6  
Misc: V6, CH#02, 5UL IS/S, STD=25UL/100ML HSL,A,B,CL3F,CL2F2  
  
Id File: MOBID6::MT  
Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO  
Last Calibration: 910814 09:37            Last Qcal Time: 911009 21:13  
  
Operator ID: KERYLYNN  
Quant Time : 911010 11:31  
Injected at: 911010 11:07

QUANT REPORT

Operator ID: KERYLYNN                      Quant Rev: 7                      Quant Time: 911010 11:31  
 Output File: ^F2866::07                      Injected at: 911010 11:03  
 Data File: >F2866::D6                      Dilution Factor: 1.00000  
 Name: USTD 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 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Cal 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 D5-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		195220	45.66	UG/L	94
43)	CXXX Xylenes (m)	18.47	106.0		144000	45.05	UG/L	100

000091

QUANT REPORT

Page 2

Operator ID: KERYLYNN                      Quant Rev: 7              Quant Time: 911010 11:31  
 Output File: ^F2866::D7                      Injected at: 911010 11:03  
 Data File: ^F2866::D6                      Dilution Factor: 1.00000  
 Name: USTD 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 ERCO/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

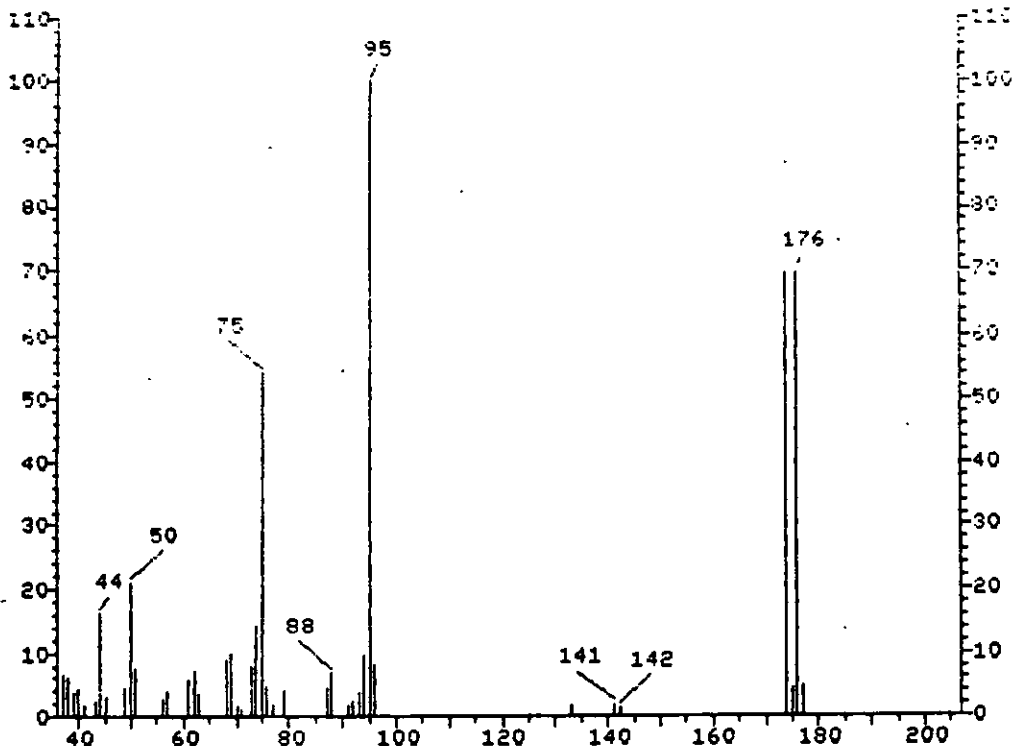
\* Compound is ISTD



F2555  
Ab 100.

BFB DIR INJ 50NG . 96  
NRM

Scan 173  
4.02 min.



TOX UOA  
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

000093

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	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				

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	21.54	21.54	Ok
75	30-60% of mass 95	45.84	45.84	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.93	6.93	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	76.26	76.26	Ok
175	5-9% of mass 174	5.93	7.78	Ok
176	95-101% of mass 174	74.23	97.34	Ok
177	5-9% of mass 176	4.83	6.51	Ok

Injection Date: 10/01/91  
Injection Time: 17:13  
Data File: >F2680  
Scan: 167  
Name: BFB DIR INJ 50NG  
Misc: U6

>F2680            BFB DIR INJ 50NG    U6  
167                NRM

File: >F2680    Scan #:            167    Retn. time:    3.96

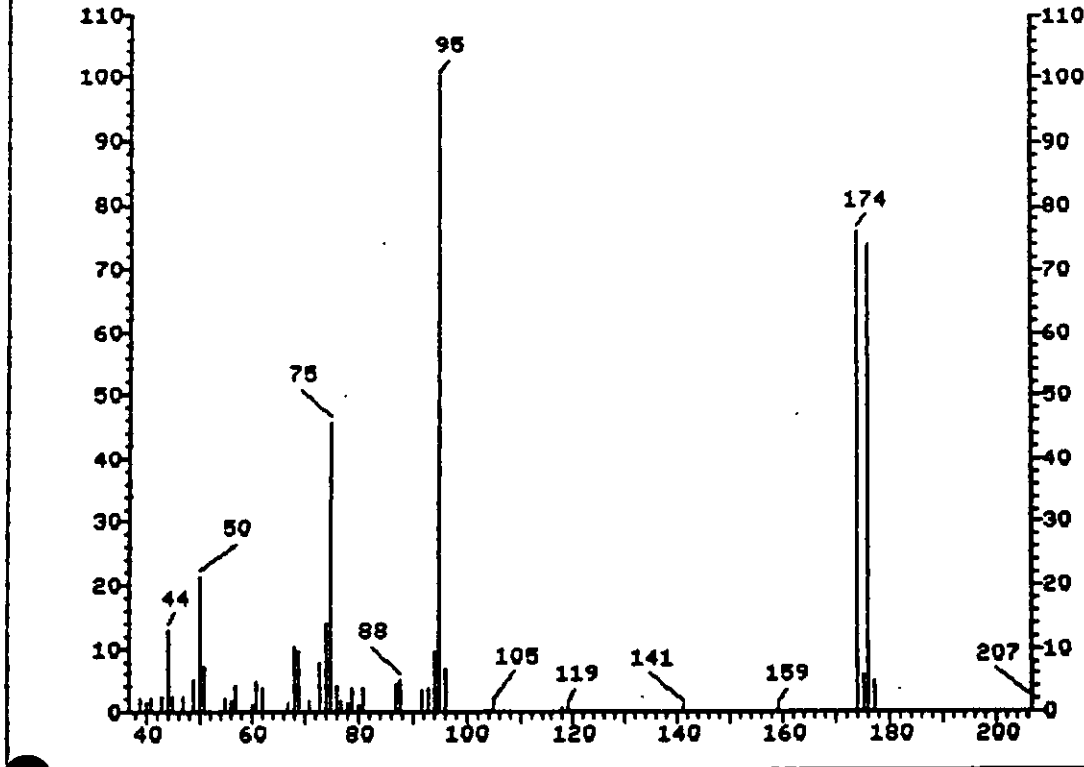
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	5.542	51.05	7.245	71.05	1.690	80.95	3.786	117.95	.747
38.95	2.018	54.95	2.044	72.95	8.005	86.95	4.428	118.95	.969
39.95	1.507	55.95	1.834	73.95	14.018	87.95	5.214	140.85	1.048
41.05	2.240	57.05	4.232	75.05	45.840	91.95	3.354	159.15	1.035
42.95	2.620	59.95	1.127	76.05	4.022	93.05	3.681	173.95	76.261
43.95	12.983	60.95	4.743	76.95	1.638	94.05	9.511	174.95	5.935
45.05	2.332	62.05	3.970	77.95	1.572	95.05	100.000	175.95	74.230
47.05	2.542	66.95	1.507	78.95	3.642	96.05	6.930	176.95	4.834
49.05	5.109	67.95	10.297	79.95	1.087	104.95	1.310	206.90	1.769
50.05	21.538	69.05	9.407						

000095

File >F2680  
Peak Ab 100.

BFB DIR INJ 50NG V6  
NRH

Scan 167  
3.96 min.



MS data file header from : >F2680::D6

Sample: BFB DIR INJ 50NG Operator: KERYLYNN SUPER GRP. 10/01/91 17:13  
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

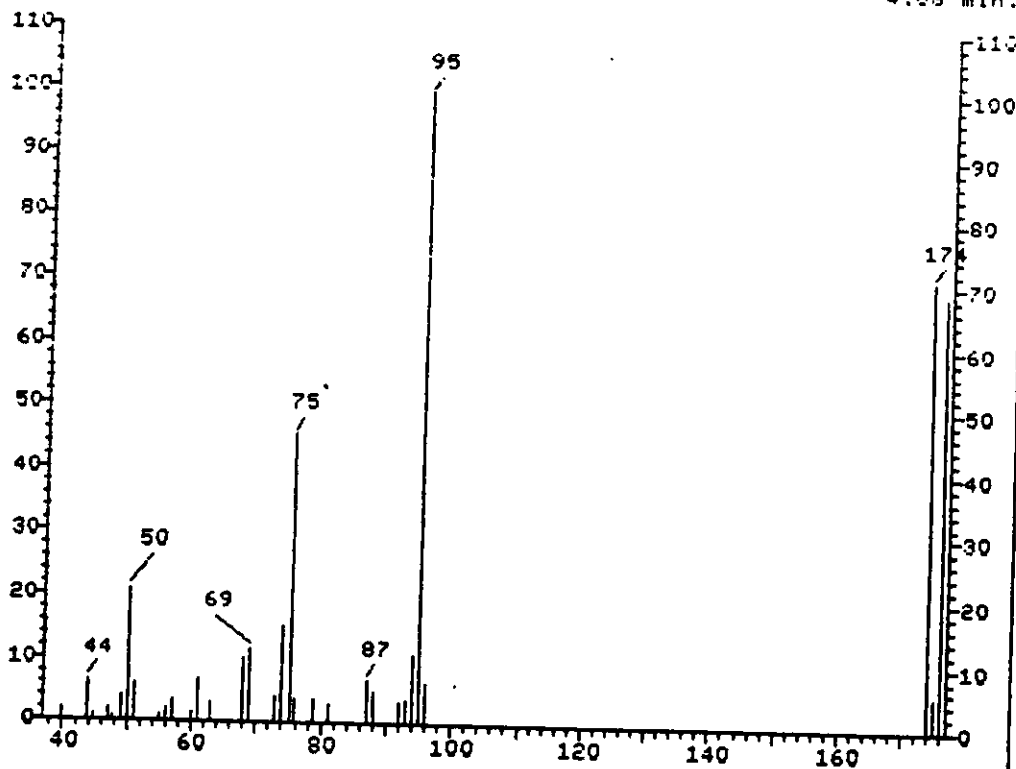
Chromatographic temperatures :	150.	150.	0.	0.	0.
Chromatographic times, min. :	1.0	6.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	1.0	0.0	0.0	0.0	0.0

000096

File F2865  
Peak Ab 100.

BFB DIR INJ 50NG.V6  
NRM

Scan 178  
4.08 min.



S data file header from : >F2865::D6

Sample: BFB DIR INJ 50NG. Operator: KERYLYNN SUPER GRP. 10/10/91 10:33  
1isc : 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

000097

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	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	5.35	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		

000098

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2688

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/01/91

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

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	1	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.

VBLK01

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2688

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/01/91

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 Qdel'ed

N/C 624-A L-092691 V6A  
 R-100191 V6B ✓

Reduced by: P Date: 10/2/91 Data File: >F2688  
 Reviewed by: MB Date: 10/11/91 Page: 1

Enseco Mass Spectrometry  
 Target Compound Data Summary Sheet

MeCl<sub>2</sub>

Sample: UBLK01 5ML  
 Misc : U6 C5 5UL IS/S  
 Injected : 10/01/91 23:37 ✓  
 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	.2520	101	76 114
CS05 D8-Toluene	.2500	.2395	95.8	88 110 ✓
CS10 Bromofluorobenzene	.2500	.2404	96.2	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-Dichloroethane
		BDL	C035 Acetone
		BDL	C040 Carbon Disulfide
254	1.231	1.2	C030 Methylene Chloride
		BDL	CXXX Tert-butyl alcohol
		BDL	C053 Trans-1,2-dichloroethane
		BDL	C055 Cis-1,2-dichloroethane
		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 Trichloroethane
		BDL	C140 1,2-Dichloropropene
		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

Data file: >F2688  
Sample: UBLK 5ML

Page: 2

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)

000102

Diagnostic Quant Report

Data File: >F2688::D5 Injected at: 23:37 10/01/91  
 Quant'd : 00:04 10/02/91  
 ID File : MOBID6::MT Calibrated : 09:37 08/14/91

Compound	- R.T. Info -				Area	RF	Conc.
	Pred	Found	Dif	Ion			
1) *CI01 Bromochloromethane	7.26	7.22	.04	128.0	69862	1.0000	50.00
2) C010 Chloromethane	2.68	0.00	--	50.0	0	1.1322	0.00
3) C020 Vinyl Chloride	2.82	0.00	--	62.0	0	1.2055	0.00
4) C015 Bromomethane	3.22	0.00	--	94.0	0	1.1318	0.00
5) C025 Chloroethane	3.34	0.00	--	64.0	0	.5994	0.00
6) C045 1,1-Dichloroethene	4.30	0.00	--	96.0	0	1.4660	0.00
7) C035 Acetone	4.37	0.00	--	43.0	0	.2433	0.00
8) C040 Carbon Disulfide	4.61	0.00	--	76.0	0	4.4588	0.00
9) C030 Methylene Chloride	4.94	4.93	.01	84.0	2732	1.5886	1.23
10) CXXX Tert-butyl alcohol	5.09	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.32	0.00	--	96.0	0	1.7403	0.00
12) C055 Cis-1,2-dichloroethe	6.83	0.00	--	96.0	0	1.9068	0.00
13) CXXX Methyl tert-butyl et	5.31	0.00	--	73.0	0	2.9749	0.00
14) C050 1,1-Dichloroethane	5.92	0.00	--	63.0	0	3.3410	0.00
15) C060 Chloroform	7.36	0.00	--	83.0	0	3.8827	0.00
16) C065 1,2-Dichloroethane	8.38	0.00	--	62.0	0	2.1923	0.00
17) C110 2-Butanone	6.84	0.00	--	72.0	0	.1173	0.00
18) CS15 D4-1,2-dichloroethan	8.24	8.23	.01	65.0	115692	1.6427	50.41
19) *CI10 1,4-Difluorobenzene	9.15	9.09	.06	114.0	405137	1.0000	50.00
20) C125 Vinyl Acetate	5.99	0.00	--	43.0	0	.6324	0.00
21) C115 1,1,1-Trichloroethan	7.67	0.00	--	97.0	0	.6048	0.00
22) C120 Carbon Tetrachloride	7.97	0.00	--	117.0	0	.5142	0.00
23) C165 Benzene	8.34	0.00	--	78.0	0	1.0481	0.00
24) C150 Trichloroethene	9.62	0.00	--	130.0	0	.4502	0.00
25) C140 1,2-Dichloropropane	10.09	0.00	--	63.0	0	.4286	0.00
26) C130 Bromodichloromethane	10.69	0.00	--	83.0	0	.6628	0.00
27) C175 2-Chloroethylvinylet	11.41	0.00	--	63.0	0	.1966	0.00
28) C143 Cis-1,3-Dichloroprop	11.74	0.00	--	75.0	0	.6373	0.00
29) C172 Trans-1,3-dichloropr	13.13	0.00	--	75.0	0	.4952	0.00
30) C160 1,1,2-Trichloroethan	13.58	0.00	--	97.0	0	.3279	0.00
31) C155 Dibromochloromethane	14.62	0.00	--	129.0	0	.5190	0.00
32) C180 Bromoform	18.78	0.00	--	173.0	0	.3145	0.00
33) *CI20 D5-Chlorobenzene	16.31	16.28	.03	117.0	312583	1.0000	50.00
34) CS05 D8-Toluene	12.41	12.40	.01	98.0	388428	1.2973	47.89
34)D CS05 D8-Toluene	12.41	12.85	.44	98.0	1513	1.2973	.19
35) C205 4-Methyl-2-pentanone	12.18	0.00	--	43.0	0	.3755	0.00
36) C230 Toluene	12.58	0.00	--	92.0	0	.9417	0.00
37) C210 2-Hexanone	14.37	0.00	--	43.0	0	.2450	0.00
38) C220 Tetrachloroethene	13.99	0.00	--	164.0	0	.4947	0.00
39) C235 Chlorobenzene	16.37	0.00	--	112.0	0	1.1580	0.00
40) C240 Ethylbenzene	16.73	0.00	--	106.0	0	.5752	0.00
41) CXXX Xylenes (p)	17.10	0.00	--	106.0	0	.7213	0.00
CXXX Xylenes (o)	18.30	0.00	--	106.0	0	.7062	0.00
43) C245 Styrene	18.36	0.00	--	104.0	0	1.2348	0.00
44) C225 1,1,2,2-Tetrachloroe	20.52	0.00	--	83.0	0	.6717	0.00
45) CS10 Bromofluorobenzene	19.94	19.92	.02	95.0	224896	.7403	48.07
46) C335 Dichlorobenzene (m)	23.48	0.00	--	146.0	0	.9928	0.00
47) C340 Dichlorobenzene (p)	23.80	0.00	--	146.0	0	.9070	0.00
48) C350 Dichlorobenzene (o)	25.02	0.00	--	146.0	0	.9067	0.00
49) C250 Xylenes (meta)	18.72	0.00	--	106.0	0	.9067	0.00

Internal Standard Comparison

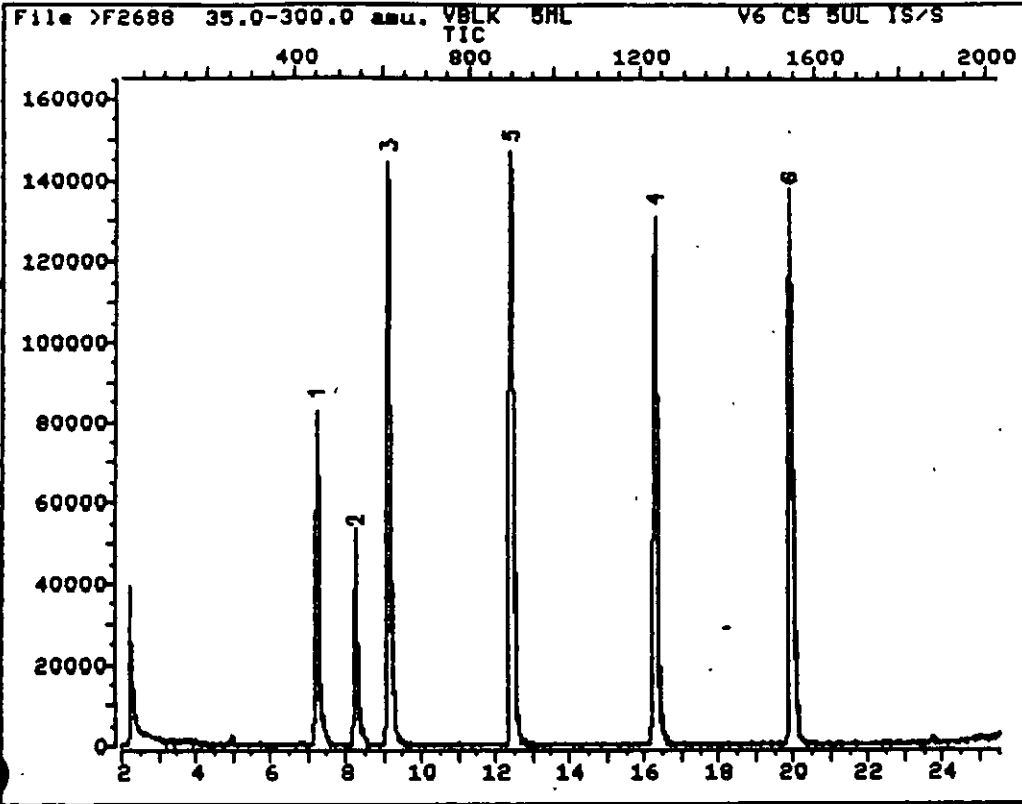
Sample: >F2688 Date injected: 10/01/91 Standard: >F2682

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	69862	76899	90.8
CI10 1,4-Difluorobenzene	405137	388768	104.2
CI20 D5-Chlorobenzene	312583	293543	106.5

% = (Sample Area/Std Area)\*100

\* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2688::D5  
Name: VBLK01 5ML  
Misc: V6 C5 5UL IS/S

Quant Output File: ^F2688::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: 911001 18:55

Operator ID: KERYLYNN  
Quant Time : 911002 00:04  
Injected at: 911001 23:37

QUANT REPORT

Page 1

Operator ID: KERYLYNN  
 Output File: ^F2688::D7  
 Data File: >F2688::D5  
 Name: VBLK015ML  
 Misc: V6 C5 5UL IS/S

Quant Rev: 7      Quant Time: 911002 00:04  
 Injected at: 911001 23:37  
 Dilution Factor: 1.00000  
 Instrument ID: V6

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCO/ENSECO

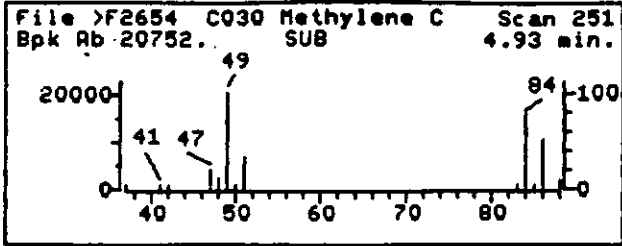
Last Calibration: 910814 09:37

Last Qcal Time: 911001 18:55

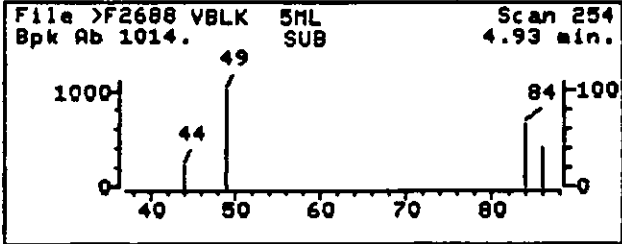
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.22	128.0	69862	50.00	UG/L	68
9)	C030 Methylene Chloride	4.93	84.0	2732	1.23	UG/L	98
18)	CS15 D4-1,2-dichloroethane	8.23	65.0	115692	50.41	UG/L	88
19)	*CI10 1,4-Difluorobenzene	9.09	114.0	405137	50.00	UG/L	100
33)	*CI20 D5-Chlorobenzene	16.28	117.0	312583	50.00	UG/L	100
34)	CS05 D8-Toluene	12.40	98.0	388428	47.89	UG/L	94
45)	CS10 Bromofluorobenzene	19.92	95.0	224896	48.07	UG/L	70

\* Compound is ISTD

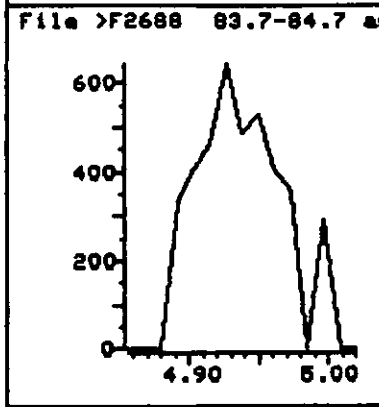
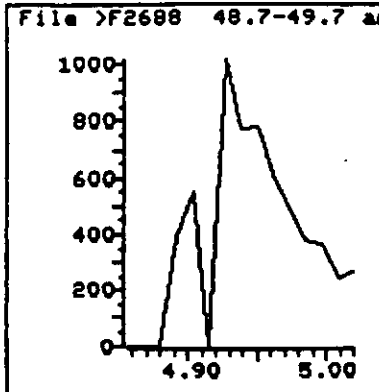
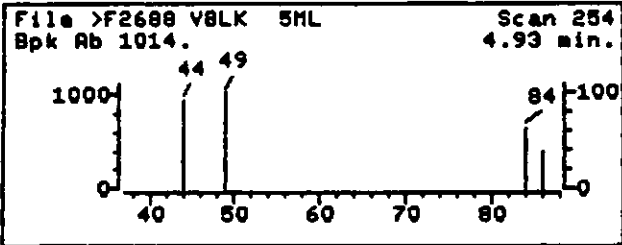
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2688::D5  
 Name: VBLK01 5ML  
 Misc: U6 C5 5UL IS/S  
 Quant Time: 911002 00:04  
 Injected at: 911001 23:37  
 Last Qcal Time: 911001 18:55

Quant Output File: ^F2688::D7  
 Instrument ID: U6

Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 9  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 254  
 Retention Time: 4.93 min.  
 Quant Ion : 84.0  
 Area : 2732  
 Concentration : 1.23 UG/L  
 q-value : 98

Data Reduced by : RV Date: 10/2/91  
Data Reviewed by : RV Date: 10/8/91

Data File: >F2688

Enseco TIC Report (page 1)

Sample: VBLK015ML  
Conditions: U6 C5 5UL IS/S

Run Factor: 1.00  
Analyst: KERYLYNN

# Scan	Q	C	Concentration In Sample (UG/L )	CAS #	Compound
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*no unk*



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK02  
 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 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.

VBLK02

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10041 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: BLANK02  
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

NC

L-100171-V07  
R-101091-V0A E240-

Prepared by: JZ Date: 10/10/91  
Reviewed by: MB Date: 10/11/91

Data File: >F28/U  
Page: 1

>F2870  
MeCl<sub>2</sub>

Enviro Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: UBLK.02 MeUH 100UL  
Misc : U6, CH#02, SUL 1S/S  
Injected : 10/10/91 14:28  
Analyst: KERYLYNN  
IU File: MUBIU6  
Quant list threshold: 1.00

Units: UG/KG  
Run Factor: 125.000  
Surrogate vol: .005

Surrogate Spike Recoveries

no unknowns

Compound	Surrogate Spiked	Surrogate Measured	% Recovery Measured	QC limits
CS17 U4-1,2-dichloroethane	.2500	.2658	106	70 121
CS05 U8-toluene	.2500	.2519	101	84 117
CS10 Bromofluorobenzene	.2500	.2532	101	59 121

Target Compounds: MUBIU6

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
252	1.161	150	C030 Methylene Chloride
			BUL CXXX Tert-butyl alcohol
			BUL C053 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
			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
			BUL C160 1,1,2-Trichloroethane

000111

Sample: VBLK. MeUH 1000L.

Scan #	Concentration UG/L	Sample UG/KG	Compound
	BDL		C175 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)

Internal Standard Comparison

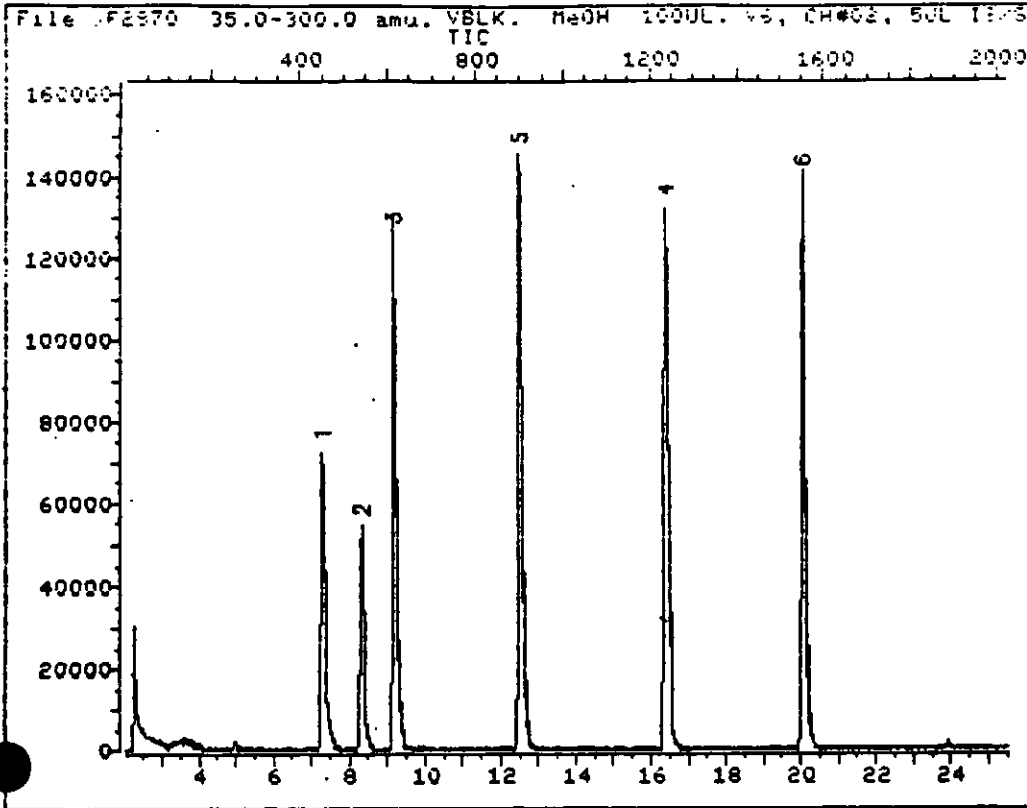
Sample: >F2870 Date injected: 10/10/91 Standard: F2866

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	69679	76639	90.9
CI10 1,4-Difluorobenzene	393780	407218	96.7
CI20 D5-Chlorobenzene	307497	313165	98.2

% = (Sample Area/Std Area)\*100

\* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2870::D6  
Name: VBLK *D2* MeOH 100UL.  
Misc: V6, CH#02, 5UL IS/S

Quant Output File: ^F2870::D7  
Instrument ID: V6

Id File: MOBID6::MT  
Title: HSL VOLATILES: 75m x .53mm: DB624 V6 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 Rev: 7      Quant Time: 911010 14:56  
 Injected at: 911010 14:28  
 Dilution Factor: 1.00000  
 Instrument ID: U6

ID File: MOBID6::MT

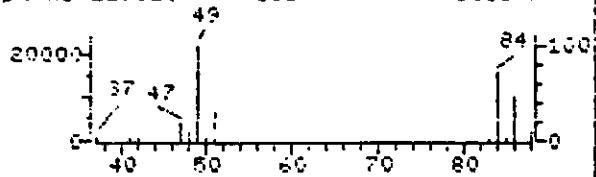
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37      Last Qcal Time: 911010 11:03

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

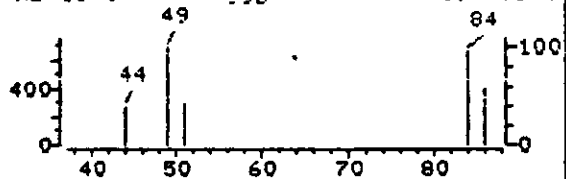
REFERENCE STANDARD SPECTRUM

File F2827 C030 Methylene C Scan 259  
Bpk Ab 21952. SUB 5.03 min.



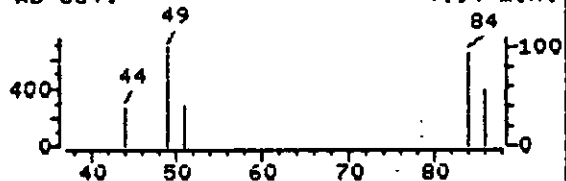
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >F2870 VBLK. MeOH 100U Scan 252  
Bpk Ab 684. SUB 4.94 min.

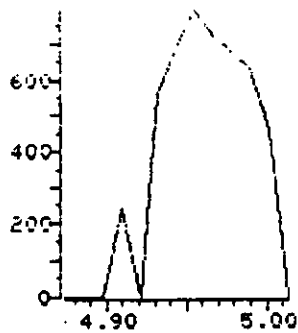


SAMPLE SPECTRUM (UNALTERED)

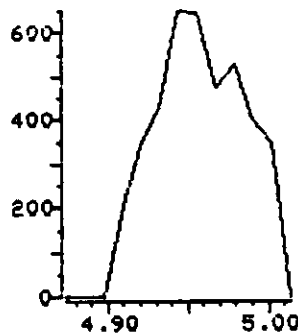
File >F2870 VBLK. MeOH 100U Scan 252  
Bpk Ab 684. SUB 4.94 min.



File >F2870 48.7-49.7 am



File >F2870 83.7-84.7 am



Data File: >F2870::D6  
Name: UBLK.02 MeOH 100UL.  
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 : TW Date: 10/5/91  
Data Reviewed by : MB Date: 10/11/91

Data File: >F2B/U

Enseco IIC Report (page 1)

Sample: UBLK D2 MeUH 100UL.  
Conditions: U6, LH#02, SUL 15/S

Run Factor: 125.  
Analyst: KERYLYNN

#	Scan	W	L	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

*No Unks*

000117

## ANALYSIS REPORT General Inorganic Chemistry Section

DATE: 14-OCT-91  
CODE / CONTROL #: ERCO / 5582  
CLIENT / SITE: ENSECO-ERCO LAB / PO 10041  
PROJECT / BATCH: 420.2.0 / 5

PAGE: 1

---

Lab#	Field #	TOC (mg/kg)		
63252	10041-01	6,460.		
63253	10041-02	605.		

*C. Thomas* 000118  
Laboratory Manager

# Versar Laboratories INC.

## QUALITY ASSURANCE REPORT General Inorganic Chemistry Section

DATE: 14-OCT-91  
CONTROL #: 5582  
CODE / BATCH: ERCO / 5  
CLIENT / SITE: ENSECO-ERCO LAB / PO 10041  
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	480000	102%	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	469000	100%	mg/kg



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 10/04/91). This project was received at Enseco - Erco Laboratory on October 4, 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 010126 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: Babson Environmental Consultants  
 Project Name: UCC Soil Analysis October 1991  
 Erco Project Number: 0126

	<u>Pages</u>
<b>I. INTRODUCTION</b>	
A. Case Narrative	<u>1</u>
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>
<b>II. VOLATILES DATA</b>	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	<u>1</u>
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>2</u>
3. Erco Method Blank Summary (Form IV)	<u>4</u>
4. GC/MS Tuning and Mass Calibration Summary (Form V)	<u>10</u>
B. Sample Data (Form I, Form I-TIC, and Raw Data)	<u>19</u>
C. Standards Data	
1. Initial Calibration Data (Form VI)	<u>186</u>
2. Initial Calibration Standard Chromatograms	<u>190</u>
3. Continuing Calibration Data (Form VII)	<u>254</u>
4. Continuing Calibration Standard Chromatograms	<u>259</u>
5. Internal Standard Area Summary (Form VIII)	<u>274</u>
D. Raw QC Data	
1. BFB Bar Graph and Mass Listing	<u>280</u>
2. Erco Blank Data	<u>298</u>
3. Matrix Spike/Matrix Spike Duplicate Data	<u>N/A</u>

DELIVERABLES INDEX (Cont.)

Client: Bakery Environmental Consultants  
 Project Name: 4PC Soil Analysis October 1991  
 Erco Project Number: 10126

	<u>Pages</u>
<b>III. SEMIVOLATILES DATA</b>	
<b>A. QC Summary</b>	
1. Surrogate Percent Recovery Summary (Form II)	NA
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>B. Sample Data (Form I, Form I-TIC, and Raw Data)</b>	
<b>C. Standards Data</b>	
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)	
<b>D. Raw QC Data</b>	
1. DFTPP Bar Graph and Mass Listing	
2. Erco Blank Data	
3. Matrix Spike/Matrix Spike Duplicate Data	
	↓
<b>IV. PESTICIDES/PCBs DATA</b>	
<b>A. QC Summary</b>	
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>B. Sample Data (Form I and Raw Data)</b>	
	↓





October 25, 1991

Project Narrative

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 10/04/91  
Erco Project No.: 010126

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 4, 1991. Please see the sample description information sheet for a list of samples.
2. In the volatile fraction please note that additional dilution of sample 01 (client id:UCC-SB-B-11-2) was analyzed one day outside holding time. Original sample was analyzed within holding time. Please note that above sample has very difficult matrix and was analyzed several times to meet CLP requirements.

SAMPLE DESCRIPTION INFORMATION  
for  
Balsam Environmental Consultants, Inc.

Lab ID	Client ID	Matrix	Sampled		Received
			Date	Time	Date
010126-0001-SA	UCC-SB-B-11-2	SOIL	01 OCT 91	15:00	04 OCT 91
010126-0002-SA	UCC-SB-B-11-2C	SOIL	01 OCT 91	15:00	04 OCT 91
010126-0003-SA	UCC-SB-A-09-4	SOIL	01 OCT 91	16:15	04 OCT 91
010126-0004-SA	UCC-SB-A-09-4C	SOIL	01 OCT 91	16:15	04 OCT 91
010126-0005-SA	UCC-SB-B-16-3	SOIL	02 OCT 91	16:00	04 OCT 91
010126-0006-SA	UCC-SB-B-16-3	SOIL	02 OCT 91	16:00	04 OCT 91
010126-0007-SA	UCC-PC-1	AQUEOUS	02 OCT 91	17:40	04 OCT 91
010126-0008-SA	UCC-SB-C-18-2	SOIL	03 OCT 91	09:00	04 OCT 91
010126-0009-SA	UCC-SB-C-18-2	SOIL	03 OCT 91	09:00	04 OCT 91
010126-0010-SA	UCC-10/3-QA1	AQUEOUS	24 SEP 91		04 OCT 91
010126-0011-SA	UCC-SB-B-14-3C	SOIL	03 OCT 91	12:00	04 OCT 91
010126-0012-SA	UCC-SB-B-14-3	SOIL	03 OCT 91	12:00	04 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 $\mu$
74-83-9	Bromomethane	2 $\mu$
75-01-4	Vinyl chloride	2 $\mu$
75-00-3	Chloroethane	2 $\mu$
75-09-2	Methylene chloride	2 $\mu$
67-64-1	Acetone	2 $\mu$
75-15-0	Carbon disulfide	1 $\mu$
75-35-4	1,1-Dichloroethene	1 $\mu$
75-34-3	1,1-Dichloroethane	1 $\mu$
156-60-5	trans-1,2-Dichloroethene	1 $\mu$
67-66-3	Chloroform	1 $\mu$
107-06-2	1,2-Dichloroethane	1 $\mu$
78-93-3	2-Butanone	1 $\mu$
71-55-6	1,1,1-Trichloroethane	1 $\mu$
56-23-5	Carbon tetrachloride	1 $\mu$
108-05-4	Vinyl acetate	2 $\mu$
75-27-4	Bromodichloromethane	1 $\mu$
79-34-5	1,1,2,2-Tetrachloroethane	1 $\mu$
78-87-5	1,2-Dichloropropane	1 $\mu$
10061-02-6	trans-1,3-Dichloropropene	1 $\mu$
79-01-6	Trichloroethene	1 $\mu$
124-48-1	Dibromochloromethane	1 $\mu$
79-00-5	1,1,2-Trichloroethane	1 $\mu$
71-43-2	Benzene	1 $\mu$
10061-01-5	cis-1,3-Dichloropropene	1 $\mu$
110-75-8	2-Chloroethylvinylether	2 $\mu$
75-25-2	Bromoform	1 $\mu$
591-78-6	2-Hexanone	2 $\mu$
108-10-1	4-Methyl-2-pentanone	2 $\mu$
127-18-4	Tetrachloroethene	1 $\mu$
108-88-3	Toluene	1 $\mu$
108-90-7	Chlorobenzene	1 $\mu$
100-41-4	Ethylbenzene	1 $\mu$
100-42-5	Styrene	1 $\mu$
	Total xylenes	1 $\mu$

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

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

Volatile Compounds

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

# CHAIN-OF-CUSTODY RECORD



PROJECT NUMBER  
**6437 T6**

PROJECT NAME \_\_\_\_\_

SAMPLE(S) SIGNATURE(S)  
*William M. Frazier*

SEND REPORT TO:  
**J.M. O'Donnell**

PROJECT ADDRESS \_\_\_\_\_

ANALYTICAL LABORATORY  
**Enseco**

METHOD  
**PIP**

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	GRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS							COMMENTS		
											VOC	MBN	PESTICIDES/PCBN	TOL METALS	PP METALS	CYANIDE	TOC			
UCC-SB-B-11-2		10/1/91	1500	Soil	X		ice	n	40ml Vial	3	X									
UCC-SB-B-11-2C		10/1/91	1500	Soil	X		"	"	25ml Vial	1							X			CLP reporting
UCC-SB-A-09-4		10/1/91	4:15PM	Soil	X		"	"	40ml Vial	3	X									Other
UCC-SB-A-09-4C		10/1/91	4:15PM	Soil	X		"	"	0.50 Vial	1							X			Many find
UCC-SB-B-16-3		10/2/91	1400	Soil	X		"	"	40ml Vial	3	X									
UCC-SB-B-16-3		10/2/91	1400	Soil	X		"	"	25ml Vial	1							X			
UCC-PC-1 (pipe chase)		10/2/91	5:40	Water	X		"	"	40ml Vial	3	X									
UCC-SB-C-18-2		10/3/91	0900	Soil	X		"	"	40ml Vial	3	X									
UCC-SB-C-18-2		10/3/91	0900	Soil	X		"	"	0.50 Vial	1							X			
UCC-9/05 10/3-QA1		9/24/90	-	Water	X		"	"	40ml Vial	2	X									
UCC-SB-B-14-3C		10/3	1200	S	X		"	"	25ml Vial	1							X			
UCC-SB-B-14-3		10/3	1200	S	X		"	"	40ml Vial	3	X									

RELINQUISHED BY: *Robert Laker* DATE: 10/3/91 TIME: 12:30AM RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED FOR LABORATORY BY: *Eric Holley* DATE: 10/4/91 TIME: 9:30

METHOD OF SHIPMENT: **Fed Ex** AIRBILL (OR SHIPPING INVOICE) NUMBER: **332906770**

7

**INTERLABORATORY CHAIN OF CUSTODY**



SHIP TO: *Venstar*

**ANALYTICAL REQUESTS**

SEND RESULTS TO: *Enseco Pro*

ATTENTION: *Larry Pollock*

ATTENTION: *MARY B. FORD*

EXPORT ID

COMMENTS

*TOC*  
↓

SAMPLE CONDITION UPON RECEIPT

*10126-02*  
*-04*  
*-06*  
*-09*  
*-11*

*UCC-SB-B-11-2C*  
*UCC-SB-A-09-4C*  
*UCC-SB-B-16-3*  
*UCC-SB-C-18-2*  
*UCC-SB-B-14-3C*

TEST PRICE

WRITTEN RESULTS REQUIRED BY (DATE) *10/24*

VERBAL/FAC RESULTS REQUIRED BY (DATE)

P.O. No. *10126*

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  TIER  OTHER\*

RAW DATA COPIES NEEDED  YES  NO

CUSTODY SEALS INTACT  YES  NO  WET WEIGHT  DRY WEIGHT

RELINQUISHED

*Mary B. Ford* *10/4/91*

DATE / TIME

RECEIVED

*[Signature]*

DATE / TIME

*10-7-91 10<sup>00</sup>*



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	ESH 10/4/91							P 10/5/91	M.B. 10/7
010127									
010128	SHB 10/5/91	SM 10/07/91 1-4					00 10/5		
010129	ESH 10/4/91	SM 10/07/91 1				ST 10-7		P 10/5/91	M.B. 10/7
010130	SHB 10/7								
010131									
010132	ESH 10/4								
010133	SHB 10/5								
010134									
010135									
010136									
010137									
010138									
010139									
010140									
010141									
010142									
010143									
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.

## 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:

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

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/aro-chlor 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-11-2

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10126-01  
 Sample wt/vol: 3.1 (g/mL) G Lab File ID: B2984  
 Level: (low/med) MED Date Received: 10/04/91  
 % Moisture: not dec. 23 Date Analyzed: 10/14/91  
 Column: (pack/cap) CAP Dilution Factor: 5.0

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

CAS NO. COMPOUND UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	Chloromethane	11000	U
74-83-9	Bromomethane	11000	U
75-01-4	Vinyl Chloride	11000	U
75-00-3	Chloroethane	11000	U
75-09-2	Methylene Chloride	12000	B
67-64-1	Acetone	2100	J
75-15-0	Carbon Disulfide	5300	U
75-35-4	1,1-Dichloroethene	4100	J
75-34-3	1,1-Dichloroethane	5300	U
540-59-0	1,2-Dichloroethene (total)	5300	U
67-66-3	Chloroform	5300	U
107-06-2	1,2-Dichloroethane	5300	U
78-93-3	2-Butanone	6200	BJ
71-55-6	1,1,1-Trichloroethane	54000	
56-23-5	Carbon Tetrachloride	5300	U
108-05-4	Vinyl Acetate	11000	U
75-27-4	Bromodichloromethane	5300	U
78-87-5	1,2-Dichloropropane	5300	U
10061-01-5	cis-1,3-Dichloropropene	5300	U
79-01-6	Trichloroethene	23000	
124-48-1	Dibromochloromethane	5300	U
79-00-5	1,1,2-Trichloroethane	5300	U
71-43-2	Benzene	5300	U
10061-02-6	trans-1,3-Dichloropropene	5300	U
110-75-8	2-Chloroethylvinylether	11000	U
75-25-2	Bromoform	5300	U
108-10-1	4-Methyl-2-Pentanone	11000	U
591-78-6	2-Hexanone	11000	U
127-18-4	Tetrachloroethene	3000	J
79-34-5	1,1,2,2-Tetrachloroethane	5300	U
108-88-3	Toluene	22000	B
108-90-7	Chlorobenzene	5300	U
100-41-4	Ethylbenzene	370000	E
100-42-5	Styrene	5300	U
1330-20-7	Xylene (total)	1100000	E

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-11-2

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-01

Sample wt/vol: 3.1 (g/mL) G Lab File ID: B2984

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 23 Date Analyzed: 10/14/91

Column (pack/cap) CAP Dilution Factor: 5.0

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H16O ISOMER	21.24	190000	J
2.	METHYLETHYLBENZENE ISOMER	21.50	53000	J
3.	UNKNOWN ALKANE	22.10	80000	J
4.	C9H18O ISOMER	22.40	330000	J
5.	C3-BENZENE ISOMER	23.03	140000	J
6.	UNKNOWN	23.47	56000	J
7.	C3-BENZENE ISOMER	24.41	49000	J
8.	C4-BENZENE ISOMER	25.31	63000	J
9.	C4-BENZENE ISOMER	25.58	78000	J
10.	UNKNOWN ALKANE	26.28	49000	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-11-2DL

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-01DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A3520

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 23 Date Analyzed: 10/15/91

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

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	130000	U
74-83-9	Bromomethane	130000	U
75-01-4	Vinyl Chloride	130000	U
75-00-3	Chloroethane	130000	U
75-09-2	Methylene Chloride	46000	BDJ
67-64-1	Acetone	130000	U
75-15-0	Carbon Disulfide	64000	U
75-35-4	1,1-Dichloroethene	64000	U
75-34-3	1,1-Dichloroethane	64000	U
540-59-0	1,2-Dichloroethene (total)	64000	U
67-66-3	Chloroform	64000	U
107-06-2	1,2-Dichloroethane	64000	U
78-93-3	2-Butanone	130000	U
71-55-6	1,1,1-Trichloroethane	150000	D
56-23-5	Carbon Tetrachloride	64000	U
108-05-4	Vinyl Acetate	130000	U
75-27-4	Bromodichloromethane	64000	U
78-87-5	1,2-Dichloropropane	64000	U
10061-01-5	cis-1,3-Dichloropropene	64000	U
79-01-6	Trichloroethene	33000	DJ
124-48-1	Dibromochloromethane	64000	U
79-00-5	1,1,2-Trichloroethane	64000	U
71-43-2	Benzene	64000	U
10061-02-6	trans-1,3-Dichloropropene	64000	U
110-75-8	2-Chloroethylvinylether	130000	U
75-25-2	Bromoform	64000	U
108-10-1	4-Methyl-2-Pentanone	130000	U
591-78-6	2-Hexanone	130000	U
127-18-4	Tetrachloroethene	64000	U
79-34-5	1,1,2,2-Tetrachloroethane	64000	U
108-88-3	Toluene	20000	DJ
108-90-7	Chlorobenzene	64000	U
100-41-4	Ethylbenzene	370000	D
100-42-5	Styrene	64000	U
1330-20-7	Xylene (total)	2000000	D

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-11-2DL

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10126-01DL  
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: A3520  
 Level: (low/med) MED Date Received: 10/04/91  
 % Moisture: not dec. 23 Date Analyzed: 10/15/91  
 Column (pack/cap) CAP Dilution Factor: 20

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.60	220000	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-09-4

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. 17 Date Analyzed: 10/08/91

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	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	7	
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	5	BJ
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	2	J
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	6	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	17	
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	4	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	4	J



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-09-4

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10126-03  
Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2804  
Level: (low/med) LOW Date Received: 10/04/91  
% Moisture: not dec. 17 Date Analyzed: 10/08/91  
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C6H14 ISOMER	5.85	36	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-16-3

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2802

Level: (low/med) LOW Date Received: 10/04/91

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

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	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	3	J
67-64-1	-----Acetone	32	
75-15-0	-----Carbon Disulfide	6	U
75-35-4	-----1,1-Dichloroethene	6	U
75-34-3	-----1,1-Dichloroethane	63	
540-59-0	-----1,2-Dichloroethene (total)	30	
67-66-3	-----Chloroform	6	U
107-06-2	-----1,2-Dichloroethane	6	U
78-93-3	-----2-Butanone	6	BJ
71-55-6	-----1,1,1-Trichloroethane	20	
56-23-5	-----Carbon Tetrachloride	6	U
108-05-4	-----Vinyl Acetate	11	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	11	U
75-25-2	-----Bromoform	6	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	5	J
79-34-5	-----1,1,2,2-Tetrachloroethane	6	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	6	U
100-41-4	-----Ethylbenzene	21	
100-42-5	-----Styrene	6	U
1330-20-7	-----Xylene (total)	83	

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-16-3

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10126-05  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2802  
 Level: (low/med) LOW Date Received: 10/04/91  
 % Moisture: not dec. 10 Date Analyzed: 10/08/91  
 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.	C8H16O ISOMER	21.19	18	J
2.	UNKNOWN	21.96	5.8	J
3.	UNKNOWN	22.33	85	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PC-1

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 10126-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2753

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91

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	5	U
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)	3	J
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	2	J
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	2	J
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	10	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.

PC-1

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 10126-07  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2753  
Level: (low/med) LOW Date Received: 10/04/91  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91  
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
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-C-18-2

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2896

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 10 Date Analyzed: 10/11/91

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	140	J
67-64-1-----	Acetone	1400	U
75-15-0-----	Carbon Disulfide	680	U
75-35-4-----	1,1-Dichloroethene	680	U
75-34-3-----	1,1-Dichloroethane	680	U
540-59-0-----	1,2-Dichloroethene (total)	190	J
67-66-3-----	Chloroform	680	U
107-06-2-----	1,2-Dichloroethane	680	U
78-93-3-----	2-Butanone	1400	U
71-55-6-----	1,1,1-Trichloroethane	680	U
56-23-5-----	Carbon Tetrachloride	680	U
108-05-4-----	Vinyl Acetate	1400	U
75-27-4-----	Bromodichloromethane	680	U
78-87-5-----	1,2-Dichloropropane	680	U
10061-01-5-----	cis-1,3-Dichloropropene	680	U
79-01-6-----	Trichloroethene	680	U
124-48-1-----	Dibromochloromethane	680	U
79-00-5-----	1,1,2-Trichloroethane	680	U
71-43-2-----	Benzene	680	U
10061-02-6-----	trans-1,3-Dichloropropene	680	U
110-75-8-----	2-Chloroethylvinylether	1400	U
75-25-2-----	Bromoform	680	U
108-10-1-----	4-Methyl-2-Pentanone	1400	U
591-78-6-----	2-Hexanone	1400	U
127-18-4-----	Tetrachloroethene	680	U
79-34-5-----	1,1,2,2-Tetrachloroethane	680	U
108-88-3-----	Toluene	330	J
108-90-7-----	Chlorobenzene	680	U
100-41-4-----	Ethylbenzene	900	
100-42-5-----	Styrene	680	U
1330-20-7-----	Xylene (total)	6000	

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-C-18-2

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2896

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 10 Date Analyzed: 10/11/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H18 ISOMER	11.49	2200	J
2.	C8H18 ISOMER	11.84	1500	J
3.	OCTANE	12.95	2800	J
4.	C8H16 ISOMER	14.77	750	J
5.	C10H22 ISOMER	21.71	1400	J
6.	UNKNOWN	22.07	1300	J
7.	ETHYLMETHYLBENZENE ISOMER	22.73	1300	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-3-QA1

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 10126-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2735

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91

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

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

CAS NO.	COMPOUND	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	4	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.

10-3-QA1
----------

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 10126-10  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2735  
 Level: (low/med) LOW Date Received: 10/04/91  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91  
 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
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-14-3

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-12

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2894

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 15 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

CAS NO.	COMPOUND	(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	200	J
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	720	U
75-35-4	1,1-Dichloroethene	720	U
75-34-3	1,1-Dichloroethane	720	U
540-59-0	1,2-Dichloroethene (total)	720	U
67-66-3	Chloroform	720	U
107-06-2	1,2-Dichloroethane	720	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	720	U
56-23-5	Carbon Tetrachloride	720	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	720	U
78-87-5	1,2-Dichloropropane	720	U
10061-01-5	cis-1,3-Dichloropropene	720	U
79-01-6	Trichloroethene	720	U
124-48-1	Dibromochloromethane	720	U
79-00-5	1,1,2-Trichloroethane	720	U
71-43-2	Benzene	720	U
10061-02-6	trans-1,3-Dichloropropene	720	U
110-75-8	2-Chloroethylvinylether	1400	U
75-25-2	Bromoform	720	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	720	U
79-34-5	1,1,2,2-Tetrachloroethane	720	U
108-88-3	Toluene	720	U
108-90-7	Chlorobenzene	720	U
100-41-4	Ethylbenzene	720	U
100-42-5	Styrene	720	U
1330-20-7	Xylene (total)	340	J

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-14-3

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10126-12  
Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2894  
Level: (low/med) MED Date Received: 10/04/91  
% Moisture: not dec. 15 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
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2752

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91

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

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

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

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
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	4	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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2752

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91

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

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3515

Level: (low/med) MED Date Received: \_\_\_\_\_

% Moisture: not dec. 0 Date Analyzed: 10/15/91

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	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	520	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	640	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	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.

VBLK02

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: BLANK02  
Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3515  
Level: (low/med) MED Date Received: \_\_\_\_\_  
% Moisture: not dec. 0 Date Analyzed: 10/15/91  
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.: 10126 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

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 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
=====	=====	=====	=====	=====

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: BLANK04

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: F2886

Level: (low/med) MED

Date Received: \_\_\_\_\_

% Moisture: not dec. 0

Date Analyzed: 10/11/91

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

FORM I VOA

1/87 Rev 000332

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: BLANK04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2886

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
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: BLANK05

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 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	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.

VBLK05

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK05  
 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: 10 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H16O ISOMER	21.24	23000	J
2.	METHYLETHYLBENZENE ISOMER	21.50	6300	J
3.	UNKNOWN ALKANE	22.10	9500	J
4.	C9H18O ISOMER	22.40	39000	J
5.	C3-BENZENE ISOMER	23.03	16000	J
6.	UNKNOWN	23.47	6600	J
7.	C3-BENZENE ISOMER	24.41	5800	J
8.	C4-BENZENE ISOMER	25.31	7500	J
9.	C4-BENZENE ISOMER	25.58	9300	J
10.	UNKNOWN ALKANE	26.28	5800	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK06

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2732

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91

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

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	U
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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2732

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91

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: Babcock Environmental Consultants  
 Project Name: U.C.C. Soil Analysis October 1991  
 Erco Project Number: 0126

	<u>Pages</u>
<b>I. INTRODUCTION</b>	
A. Case Narrative	<u>1</u>
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>
<b>II. VOLATILES DATA</b>	
A. QC Summary	
1. Surrogate Percent Recovery Summary (Form II)	<u>1</u>
2. Matrix Spike/Matrix Spike Duplicate Summary (Form III)	<u>2</u>
3. Erco Method Blank Summary (Form IV)	<u>4</u>
4. GC/MS Tuning and Mass Calibration Summary (Form V)	<u>10</u>
B. Sample Data (Form I, Form I-TIC, and Raw Data)	<u>19</u>
C. Standards Data	
1. Initial Calibration Data (Form VI)	<u>186</u>
2. Initial Calibration Standard Chromatograms	<u>190</u>
3. Continuing Calibration Data (Form VII)	<u>254</u>
4. Continuing Calibration Standard Chromatograms	<u>259</u>
5. Internal Standard Area Summary (Form VIII)	<u>274</u>
D. Raw QC Data	
1. BFB Bar Graph and Mass Listing	<u>280</u>
2. Erco Blank Data	<u>298</u>
3. Matrix Spike/Matrix Spike Duplicate Data	<u>N/A</u>



DELIVERABLES INDEX (Cont.)

Client: Baker Environmental Consultants  
 Project Name: UPC Soil Analysis October 1991  
 Erco Project Number: 10126

	<u>Pages</u>
<b>III. SEMIVOLATILES DATA</b>	
<b>A. QC Summary</b>	
1. Surrogate Percent Recovery Summary (Form II)	NA
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>B. Sample Data (Form I, Form I-TIC, and Raw Data)</b>	
<b>C. Standards Data</b>	
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)	
<b>D. Raw QC Data</b>	
1. DFTPP Bar Graph and Mass Listing	
2. Erco Blank Data	
3. Matrix Spike/Matrix Spike Duplicate Data	
	↓
<b>IV. PESTICIDES/PCBs DATA</b>	
<b>A. QC Summary</b>	
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>B. Sample Data (Form I and Raw Data)</b>	
	↓

DELIVERABLES INDEX (Cont.)

Client: Balson Environmental Consultants  
Project Name: 400 Soil Analysis October 1991  
Erco Project Number: 10126

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)
4. Pesticides Standard Chromatograms

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

<u>NA</u>
↓
<u>1-3</u>

*NA = Not Applicable*

October 25, 1991

Project Narrative

Client: Balsam Environmental Consultants, Inc.  
Project Name: UCC Soil Analysis 10/04/91  
Erco Project No.: 010126

1. This project consists of the results for samples received at Enseco - Erco Laboratory on October 4, 1991. Please see the sample description information sheet for a list of samples.
2. In the volatile fraction please note that additional dilution of sample 01 (client id:UCC-SB-B-11-2) was analyzed one day outside holding time. Original sample was analyzed within holding time. Please note that above sample has very difficult matrix and was analyzed several times to meet CLP requirements.

SAMPLE DESCRIPTION INFORMATION  
for  
Balsam Environmental Consultants, Inc.

Lab ID	Client ID	Matrix	Sampled		Received
			Date	Time	Date
010126-0001-SA	UCC-SB-B-11-2	SOIL	01 OCT 91	15:00	04 OCT 91
010126-0002-SA	UCC-SB-B-11-2C	SOIL	01 OCT 91	15:00	04 OCT 91
010126-0003-SA	UCC-SB-A-09-4	SOIL	01 OCT 91	16:15	04 OCT 91
010126-0004-SA	UCC-SB-A-09-4C	SOIL	01 OCT 91	16:15	04 OCT 91
010126-0005-SA	UCC-SB-B-16-3	SOIL	02 OCT 91	16:00	04 OCT 91
010126-0006-SA	UCC-SB-B-16-3	SOIL	02 OCT 91	16:00	04 OCT 91
010126-0007-SA	UCC-PC-1	AQUEOUS	02 OCT 91	17:40	04 OCT 91
010126-0008-SA	UCC-SB-C-18-2	SOIL	03 OCT 91	09:00	04 OCT 91
010126-0009-SA	UCC-SB-C-18-2	SOIL	03 OCT 91	09:00	04 OCT 91
010126-0010-SA	UCC-10/3-QA1	AQUEOUS	24 SEP 91		04 OCT 91
010126-0011-SA	UCC-SB-B-14-3C	SOIL	03 OCT 91	12:00	04 OCT 91
010126-0012-SA	UCC-SB-B-14-3	SOIL	03 OCT 91	12:00	04 OCT 91

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

KEY FOR SURROGATE AND INTERNAL STANDARDS

Acid/Base-Neutral Compounds

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

Volatile Compounds

1 - Bromochloromethane	Internal standard
2 - 1,2-Dichloroethane-d <sub>4</sub>	Surrogate standard
3 - 1,4-Difluorobenzene	Internal standard
4 - Toluene-d <sub>8</sub>	Surrogate standard
5 - Chlorobenzene-d <sub>5</sub>	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.M. O'Donnell**  
*William M. Foster*

PROJECT ADDRESS \_\_\_\_\_ ANALYTICAL LABORATORY **Enseco** METHOD **PCB**

SAMPLE NUMBER	SAMPLING LOCATION	DATE	TIME	MATRIX	CRAB	COMPOSITE	PRESERVATIVE	FILTERED (Y/N)	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS							COMMENTS		
											VOC	ABN	PESTICIDES/PCPB	TQ METALS	PP METALS	CYANIDE	TOC			
UCC-SB-B-11-2		10/1/91	1500	Soil	X		ice	n	40 ml VOA	3	X									
UCC-SB-B-11-2C		10/1/91	1500	Soil	X		"	"	250 ml	1								X		CLP reporting
UCC-SB-A-09-4		10/1/91	4:15 PM	Soil	X		"	"	40 ml VOA	3	X									Alter
UCC-SB-A-09-4C		10/1/91	4:15 PM	Soil	X	X	"	"	0.50 ml	1								X		Many find
UCC-SB-B-16-3		10/2/91	1400	Soil	X		"	"	40 ml VOA	3	X									
UCC-SB-B-16-3		10/2/91	1400	Soil	X		"	"	250 ml	1								X		
UCC-PC-1 (pipe chase)		10/2/91	5:40	Water	X		"	"	10 ml VOA	3	X									
UCC-SB-C-18-2		10/3/91	0900	Soil	X		"	"	40 ml VOA	3	X									
UCC-SB-C-18-2		10/3/91	0900	Soil	X		"	"	0.50 ml	1								X		
UCC-9105 10/3-QA1		9/24/90		Water	X		"	"	40 ml VOA	2	X									
UCC-SB-B-14-3C		10/3	1200	S	X		"	"	250 ml	1								X		
UCC-SB-B-14-3		10/3	1200	S	X		"	"	40 ml VOA	3	X									

RELINQUISHED BY: *Robert Luker* DATE: **10/3/91** TIME: **12:30 AM** RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED FOR LABORATORY BY: *Eric Holly* DATE: **10/4/91** TIME: **9:30**

METHOD OF SHIPMENT: **Fed Ex** AIRBILL (OR SHIPPING INVOICE) NUMBER: **332906770**

**INTERLABORATORY CHAIN OF CUSTODY**

SHIP TO: Verbar

**ANALYTICAL REQUESTS**

SEND RESULTS TO: Enseco Pro

ATTENTION: Larry Pollack

ATTENTION: MARY B. FORD

EXPORT ID

**COMMENTS**

UCC-SB-B-11-2C  
UCC-SB-A-09-4C  
UCC-SB-B-16-3  
UCC-SB-C-18-2  
UCC-SB-B-14-3C

TOC  
↓

SAMPLE CONDITION UPON RECEIPT

10126-02  
-04  
-06  
-09  
-11

TEST PRICE  
SUBTOTAL  
DISCOUNT / SURCHARGE  
TOTAL

WRITTEN RESULTS REQUIRED BY (DATE) 10/24 VERBAL/FAC RESULTS REQUIRED BY (DATE) 10/26

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  TIER  OTHER\*

RAW DATA COPIES NEEDED  YES  NO

CUSTODY SEALS INTACT  YES  NO  WET WEIGHT  DRY WEIGHT

\*SPECIAL INSTRUCTIONS

RELINQUISHED Mary B. Ford DATE / TIME 10/4/91

RECEIVED Larry Pollack DATE / TIME 10-7-91 10<sup>00</sup>

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	EH 10/4/91							P 10/5/91	M.B. 10/7
010127									
010128	SHB 10/5/91	SH 10/07/91 1-4						00 10/5	
010129	EH 10/4/91	SH 10/07/91 1				ST 10-7		P 10/5/91	M.B. 10/7
010130	SHB 10/7								
010131									
010132	EH 10/4								
010133	SHB 10/5								
010134									
010135									
010136									
010137									
010138									
010139									
010140									
010141									
010142									
010143									
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.

## 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/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.

2A  
WATER VOLATILE SURROGATE RECOVERY

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	10-3-QA1	97	101	93	0	0
02	PC-1	99	96	91	0	0
03	VBLK06	100	102	98	0	0
04	VBLK01	101	96	88	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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-A-09-4	102	94	100	0	0
02	SB-B-16-3	99	99	96	0	0
03	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

2B  
SOIL VOLATILE SURROGATE RECOVERY

Job Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	SB-B-11-2	95	102	84	0	0
02	SB-B-11-2DL	0 D	0 D	0 D	0	0
03	SB-B-14-3	85	81	76	0	0
04	SB-C-18-2	86	83	74	0	0
05	VBLK04	98	100	100	0	0
06	VBLK05	100	101	105	0	0
07	VBLK02	97	95	91	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

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: F2752 Lab Sample ID: BLANK01  
Date Analyzed: 10/06/91 Time Analyzed: 1118  
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	PC-1	10126-07	F2753	1225

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: A3515 Lab Sample ID: BLANK02  
Date Analyzed: 10/15/91 Time Analyzed: 1303  
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-11-2DL	10126-01DL	A3520	1559

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 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-09-4	10126-03	F2804	1852
02	SB-B-16-3	10126-05	F2802	1708

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: F2886 Lab Sample ID: BLANK04  
Date Analyzed: 10/11/91 Time Analyzed: 0039  
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-14-3	10126-12	F2894	0456
02	SB-C-18-2	10126-08	F2896	0602

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Client Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Lab File ID: B2981 Lab Sample ID: BLANK05  
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-11-2	10126-01	B2984	1750

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: F2732 Lab Sample ID: BLANK06  
 Date Analyzed: 10/05/91 Time Analyzed: 1526  
 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	10-3-QA1	10126-10	F2735	1646

COMMENTS:

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: A2830 BFB Injection Date: 08/29/91  
 Instrument ID: V1 BFB Injection Time: 1010  
 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	22.1
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.: 10126 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)

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: F2728 BFB Injection Date: 10/05/91  
 Instrument ID: V6 BFB Injection Time: 1246  
 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	19.4
75	30.0 - 60.0% of mass 95	48.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	Greater than 50.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	6.1 ( 7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	80.2 ( 99.6)1
177	5.0 - 9.0% of mass 176	5.0 ( 6.2)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	F2729	10/05/91	1323
02	VBLK06	BLANK06	F2732	10/05/91	1526
03	10-3-QA1	10126-10	F2735	10/05/91	1646

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: F2750 BFB Injection Date: 10/06/91  
 Instrument ID: V6 BFB Injection Time: 1005  
 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	20.4
75	30.0 - 60.0% of mass 95	50.0
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	75.4
175	5.0 - 9.0% of mass 174	5.5 ( 7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.7 ( 99.1)1
177	5.0 - 9.0% of mass 176	4.9 ( 6.6)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	F2751	10/06/91	1030
02	VBLK01	BLANK01	F2752	10/06/91	1118
03	PC-1	10126-07	F2753	10/06/91	1225

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

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 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-B-16-3	10126-05	F2802	10/08/91	1708
08	SB-A-09-4	10126-03	F2804	10/08/91	1852

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: F2882 BFB Injection Date: 10/10/91  
 Instrument ID: V6 BFB Injection Time: 2154  
 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	19.6
75	30.0 - 60.0% of mass 95	51.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	Greater than 50.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	4.4 ( 6.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.8 ( 96.0)1
177	5.0 - 9.0% of mass 176	5.0 ( 7.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS 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	F2884	10/10/91	2248
02	VBLK04	BLANK04	F2886	10/11/91	0039
03	SB-B-14-3	10126-12	F2894	10/11/91	0456
04	SB-C-18-2	10126-08	F2896	10/11/91	0602

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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID: A3512 BFB Injection Date: 10/15/91  
 Instrument ID: V1 BFB Injection Time: 1006  
 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	20.8
75	30.0 - 60.0% of mass 95	48.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	Greater than 50.0% of mass 95	87.1
175	5.0 - 9.0% of mass 174	6.0 ( 6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	84.7 ( 97.2)1
177	5.0 - 9.0% of mass 176	5.4 ( 6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS 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	A3513	10/15/91	1041
02	VBLK02	BLANK02	A3515	10/15/91	1303
03	SB-B-11-2DL	10126-01DL	A3520	10/15/91	1559

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

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 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	VBLK05	BLANK05	B2981	10/14/91	1533
03	SB-B-11-2	10126-01	B2984	10/14/91	1750

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-11-2

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-01

Sample wt/vol: 3.1 (g/mL) G Lab File ID: B2984

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 23 Date Analyzed: 10/14/91

Column: (pack/cap) CAP Dilution Factor: 5.0

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	11000	U
74-83-9	-----Bromomethane	11000	U
75-01-4	-----Vinyl Chloride	11000	U
75-00-3	-----Chloroethane	11000	U
75-09-2	-----Methylene Chloride	12000	B
67-64-1	-----Acetone	2100	J
75-15-0	-----Carbon Disulfide	5300	U
75-35-4	-----1,1-Dichloroethene	4100	J
75-34-3	-----1,1-Dichloroethane	5300	U
540-59-0	-----1,2-Dichloroethene (total)	5300	U
67-66-3	-----Chloroform	5300	U
107-06-2	-----1,2-Dichloroethane	5300	U
78-93-3	-----2-Butanone	6200	BJ
71-55-6	-----1,1,1-Trichloroethane	54000	U
56-23-5	-----Carbon Tetrachloride	5300	U
108-05-4	-----Vinyl Acetate	11000	U
75-27-4	-----Bromodichloromethane	5300	U
78-87-5	-----1,2-Dichloropropane	5300	U
10061-01-5	-----cis-1,3-Dichloropropene	5300	U
79-01-6	-----Trichloroethene	23000	U
124-48-1	-----Dibromochloromethane	5300	U
79-00-5	-----1,1,2-Trichloroethane	5300	U
71-43-2	-----Benzene	5300	U
10061-02-6	-----trans-1,3-Dichloropropene	5300	U
110-75-8	-----2-Chloroethylvinylether	11000	U
75-25-2	-----Bromoform	5300	U
108-10-1	-----4-Methyl-2-Pentanone	11000	U
591-78-6	-----2-Hexanone	11000	U
127-18-4	-----Tetrachloroethene	3000	J
79-34-5	-----1,1,2,2-Tetrachloroethane	5300	U
108-88-3	-----Toluene	22000	B
108-90-7	-----Chlorobenzene	5300	U
100-41-4	-----Ethylbenzene	370000	E
100-42-5	-----Styrene	5300	U
1330-20-7	-----Xylene (total)	1100000	E



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-11-2

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10126-01  
Sample wt/vol: 3.1 (g/mL) G Lab File ID: B2984  
Level: (low/med) MED Date Received: 10/04/91  
& Moisture: not dec. 23 Date Analyzed: 10/14/91  
Column (pack/cap) CAP Dilution Factor: 5.0

Number TICs found: 10 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H16O ISOMER	21.24	190000	J
2.	METHYLETHYLBENZENE ISOMER	21.50	53000	J
3.	UNKNOWN ALKANE	22.10	80000	J
4.	C9H18O ISOMER	22.40	330000	J
5.	C3-BENZENE ISOMER	23.03	140000	J
6.	UNKNOWN	23.47	56000	J
7.	C3-BENZENE ISOMER	24.41	49000	J
8.	C4-BENZENE ISOMER	25.31	63000	J
9.	C4-BENZENE ISOMER	25.58	78000	J
10.	UNKNOWN ALKANE	26.28	49000	J

NC  
RR  
5ulx

R-101491V2A  
782951  
MCCly  
2-But  
Toluene

10126  
101491

Analyst: HLENN  
Injection: 10-1-1991  
Sample: 101491

Surrogate: 101491  
Run Factor: 0.121800 ✓  
Surrogate: 101491

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount Measured (ug)	% Recovery Measured	UL Limits
CS15 04-1,2-Dichloroethane	25.00	20.95	83.7	70 121
CS07 08-toluene	25.00	23.72	94.9	81 117
CS10 Bromofluorobenzene (BFB)	25.00	25.48	102	74 121

Target Compounds: 101491

Scan #	Concentration (ug/L)	Sample (ug/kg)	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
261	3.92	(3183) J	C025 Chloroethane
263	1.975	(2693) -	C045 1,1-Dichloroethene
		(1604) J	C035 Acetone
308	10.95	(1533) -	C040 Carbon Disulfide
		(8891) JB	C030 Methylene Chloride
			C053 Trans-1,2-Dichloroethene
			C055 cis-1,2-Dichloroethene
			C050 1,1-Dichloroethane
			C060 Chloroform
472	5.857	(4756) JB	C065 1,2-Dichloroethane
			C110 2-Butanone
542	51.293	(41650)	C125 Vinyl Acetate
542	7.925	(6435) JM	C115 1,1,1-Trichloroethane
			C120 Carbon Tetrachloride
710	21.885	(17770)	C165 Benzene
			C150 Trichloroethene
			C140 1,2-Dichloropropane
			C130 Bromodichloromethane
			C175 2-Chloroethylvinylether
			C143 Cis-1,3-Dichloropropen
			C172 Trans-1,3-Dichloropropen
1019	1.769	(1436) J	C160 1,1,2-Trichloroethane
			C155 Dibromochloromethane
			C180 Bromoform

000021

1012001

CT 10123161

Code	Quantity	Unit	Code	Description
1428	<del>11.10</del>	SIX	<del>10000</del>	4-Methyl-2-pentanone
1428	20.515	BUL	10000	Toluene
1428	2.555	BUL	10000	2-Hexanone
1428	2.555	BUL	10000	2,2,4-Trimethylpentane
1428	275.100	BUL	20000	Chlorobenzene
1300	275.342	BUL	20000	Styrene
1428	407.707	BUL	301100	Xylene (p)
1428	<del>13.000</del>	Sng	<del>11000</del>	Xylenes (o)
		BUL		Styrene
		BUL		1,1,2,2-tetrachloroethane
		BUL		Dichlorobenzene (m)
		BUL		Dichlorobenzene (p)
		BUL		Dichlorobenzene (o)
1428	<del>170.000</del>		<del>32000</del>	Xylene (total)
	1013.62		823059	

Jg 101591

Compound	Exp. Found	Calc.	Diff.	Ref.	Area	Ref.	Area	
1) *C101	Bromochloromethane	3.4	3.4	.09	96.0	177225	1.0840	96.00
2) C110	Chloromethane	3.13	3.00	--	86.0	0	1.413	0.00
3) C020	Vinyl Chloride	3.14	3.01	--	82.0	0	1.362	0.00
4) C015	Bromomethane	3.65	3.00	--	42.0	0	1.915	0.00
5) C025	Chloroethane	3.83	3.00	--	54.0	0	1.729	0.00
6) C045	1,1-Dichloroethene	4.71	4.65	.06	96.0	12428	1.1416	3.22
7) C035	Acetone	4.69	4.67	.02	43.0	2973	.4244	1.92
7)D C035	Acetone	4.69	5.09	.41	43.0	1248	.4244	.83
8) C040	Carbon Disulfide	4.94	0.00	--	76.0	0	4.8412	0.00
9) C030	Methylene Chloride	5.22	5.20	.02	84.0	17891	2.6370	1.91
10) C053	trans-1,2-Dichloroe	5.60	5.54	.06	96.0	518	1.9760	.07
11) C055	cis-1,2-Dichloroeth	7.08	7.07	.01	96.0	2512	2.0042	.35
12) C050	1,1-Dichloroethane	6.19	6.17	.02	63.0	3994	3.6934	.30
13) C060	Chloroform	7.61	7.61	.00	83.0	7198	3.5395	.57
14) C065	1,2-Dichloroethane	8.62	8.62	.00	62.0	870	2.3048	.11
15) C110	2-Butanone	7.12	7.12	.00	43.0	22458	1.0812	5.86
16) C515	04-1,2-Dichloroetha	8.47	8.49	.01	65.0	49083	1.6528	8.37
17) *C110	1,4-Difluorobenzene	9.35	9.38	.03	114.0	732440	1.0000	50.00
18) C125	Vinyl Acetate	6.31	0.00	--	43.0	0	.9271	0.00
19) C115	1,1,1-Trichloroetha	7.97	7.94	.03	97.0	359896	.4790	51.29
20) C120	Carbon tetrachlorid	8.26	7.94	.32	117.0	52900	.4557	7.93
21) C165	Benzene	8.62	8.59	.03	78.0	2949	1.2475	.16
22) C150	Trichloroethene	9.90	9.90	.00	130.0	131725	.4109	21.88
23) C140	1,2-Dichloropropane	10.35	10.35	.00	63.0	911	.4179	.15
24) C130	Bromodichloromethan	10.97	0.00	--	83.0	0	.5693	0.00
25) C175	2-Chloroethylvinyle	11.71	0.00	--	63.0	0	.2011	0.00
26) C143	Cis-1,3-Dichloropro	12.03	0.00	--	75.0	0	.5727	0.00
27) C172	Trans-1,3-Dichlorop	13.43	0.00	--	75.0	0	.4328	0.00
28) C160	1,1,2-Trichloroetha	13.88	13.52	.37	97.0	7666	.2958	1.77
29) C155	Dibromochloromethan	14.92	0.00	--	129.0	0	.4224	0.00
30) C180	Bromoform	19.13	0.00	--	173.0	0	.3017	0.00
31) *C120	D5-Chlorobenzene	16.51	16.58	.08	117.0	542068	1.0000	50.00
32) C505	D8-Toluene	12.69	12.70	.01	98.0	137251	1.3341	9.49
33) C205	4-Methyl-2-Pentanon	12.46	12.45	.01	43.0	7228	.5703	1.17
33)D C205	4-Methyl-2-Pentanon	12.46	12.72	.26	43.0	660	.5703	.11
34) C230	Toluene	12.86	12.86	.00	92.0	193002	.8678	20.51
35) C210	2-Hexanone	14.67	0.00	--	43.0	0	.3123	0.00
36) C220	Tetrachloroethene	14.28	14.29	.01	164.0	12758	.4102	2.87
37) C235	Chlorobenzene	16.66	0.00	--	112.0	0	1.0211	0.00
38) C240	Ethylbenzene	17.08	17.09	.01	106.0	1833084	.4759	355.31
38)D C240	Ethylbenzene	17.08	17.43	.35	106.0	1779377	.4759	344.90
39)D CXXX	Xylene ( p )	17.45	17.09	.37	106.0	1833084	.5961	283.65
39) CXXX	Xylene ( p )	17.45	17.43	.03	106.0	1779377	.5961	275.34
40) CXXX	Xylenes ( o )	18.64	18.66	.02	106.0	2756351	.6235	407.80
41) C245	Styrene	18.70	18.66	.04	104.0	145419	.9877	13.58
42) C225	1,1,2,2-Tetrachloro	20.88	0.00	--	83.0	0	.8050	0.00
43) C510	Bromofluorobenzene	20.29	20.24	.04	95.0	67530	.6112	10.19
44) C335	Dichlorobenzene ( m	23.92	23.82	.10	146.0	764	.9182	1.08
44)D C335	Dichlorobenzene ( m	23.92	24.12	.21	146.0	886	.9182	1.09
45)D C340	Dichlorobenzene ( p	24.23	23.82	.42	146.0	764	.9377	.08

000023

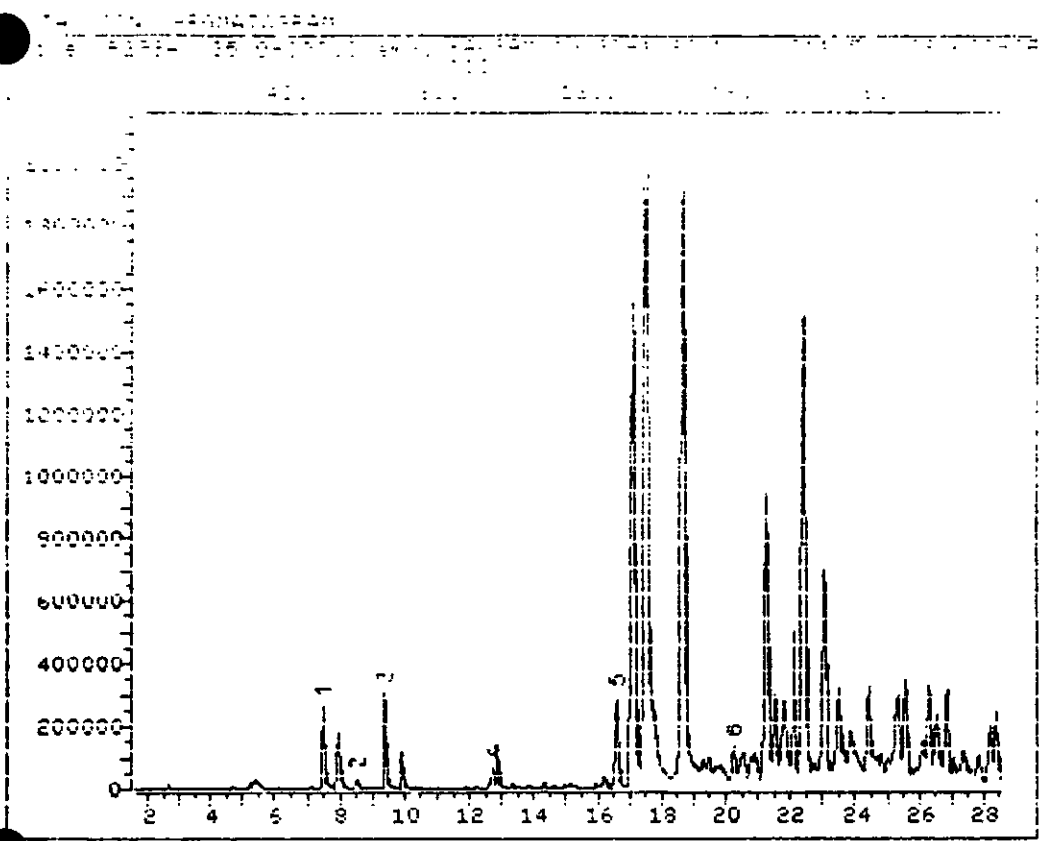
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1000	1000	kg	10.00	10000.00	10.00	10000.00	10.00	10000.00
1000	1000	kg	10.00	10000.00	10.00	10000.00	10.00	10000.00
1000	1000	kg	10.00	10000.00	10.00	10000.00	10.00	10000.00
1000	1000	kg	10.00	10000.00	10.00	10000.00	10.00	10000.00

...

INTERNAL STANDARDS

INTERNAL STANDARDS	SAMPLE AREA	STD AREA	%
1101 Bromochloromethane	177025	100004	175.1
1110 1,4-Difluorobenzene	702440	440140	159.4
1120 2,6-Difluorobenzene	542068	321775	168.5

% = (sample area/std area) \* 100  
\* Area outside limits



Data File: 082984:D6                      Quant Output File: 082984:Q1  
Name: BALSAM 10125-1 20ULX  
Misc: J2 U11 5UL 15 UCC-SB-B-11-2 3.08G/10ML 101291

Id File: VUAID2::\$\$  
Title: HSL VOLATILES:10%mmx.53mm:DB624:V2:ERCO/ENSECO  
Last Calibration: 911014 14:19

Operator ID: ALANA  
Quant Time: 911014 18:19  
Injected at: 911014 17:50

ID File: 101102111

67 1012391

Title: HSE - UCLH - Loc: 109m.v.h.m.m. UCLH - 10/11/11 - 11/11/11

Last Calibration: 11/01/14 14:18

	Compound	Rt.	Concn	Area	Concn	Units	id	
1)	*C101	Bromochloromethane	2.42	128.0	177525	50.00	UG/L	70
6)	C045	1,1-Dichloroethene	4.65	96.0	13428	3.32	UG/L	94
7)	C035	Acetone	4.67	43.0	2973	1.98	UG/L	100
9)	C030	Methylene Chloride	5.20	84.0	17891	1.91	UG/L	85
10)	C053	Trans-1,2-Dichloroethene	5.54	96.0	518	.07	UG/L	96
11)	C055	cis-1,2-Dichloroethene	7.07	96.0	2512	.35	UG/L	99
12)	C050	1,1-Dichloroethane	6.17	63.0	3994	.30	UG/L	90
13)	C060	Chloroform	7.61	83.0	7198	.57	UG/L	99
14)	C065	1,2-Dichloroethane	8.62	62.0	870	.11	UG/L	100
15)	C110	2-Butanone	7.12	43.0	22458	5.85	UG/L	97
16)	C515	04-1,2-Dichloroethane	8.49	65.0	49083	8.37	UG/L	83
17)	*C110	1,4-Difluorobenzene	9.38	114.0	732440	50.00	UG/L	100
18)	C115	1,1,1-Trichloroethane	7.94	97.0	359846	51.29	UG/L	92
20)	C120	Carbon tetrachloride	7.94	117.0	92900	7.93	UG/L	99
21)	C165	Benzene	8.59	78.0	2949	.16	UG/L	100
22)	C150	Trichloroethene	9.90	130.0	131725	21.88	UG/L	99
23)	C140	1,2-Dichloropropane	10.35	63.0	911	.15	UG/L	100
28)	C160	1,1,2-Trichloroethane	13.52	97.0	7666	1.77	UG/L	45
31)	*C120	05-Chlorobenzene	16.58	117.0	542068	50.00	UG/L	100
32)	C505	08-Toluene	12.70	98.0	137251	9.49	UG/L	93
33)	C205	4-Methyl-2-Pentanone	12.45	43.0	7228	1.17	UG/L	96
34)	C230	Toluene	12.86	92.0	193002	20.51	UG/L	97
36)	C220	Tetrachloroethene	14.29	164.0	12758	2.87	UG/L	92
38)	C240	Ethylbenzene	17.09	106.0	1833084	355.31	UG/L	43
39)	CXXX	Xylene ( p )	17.43	106.0	1779377	275.34	UG/L	51
40)	CXXX	Xylenes ( o )	18.66	106.0	2756351	407.80	UG/L	49
41)	C245	Styrene	18.66	104.0	145419	13.58	UG/L	100
43)	C510	Bromofluorobenzene (BFB)	20.24	95.0	67530	10.19	UG/L	81
44)	C335	Dichlorobenzene ( m )	23.82	146.0	764	.08	UG/L	100
45)	C340	Dichlorobenzene ( p )	24.12	146.0	886	.09	UG/L	100
46)	C350	Dichlorobenzene ( o )	25.37	146.0	515	.05	UG/L	100
47)	C250	Xylene (Total)	<del>28.66</del>	106.0	<del>2684357</del>	<del>398.81</del>	UG/L	38

17.54 6822590m 1013.62 ug/l

\* Compound is ISTD

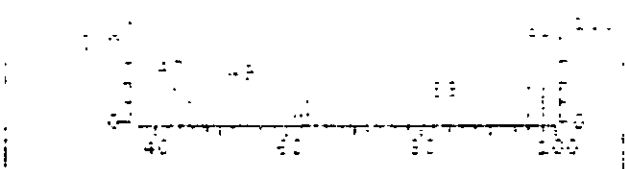
1,1-Dichloroethene Rt. 4.65 area: 15888m 3.92 ug/l

meCl2 Rt. 5.20 area: 102413m 10.95 ug/l

Jy 101591

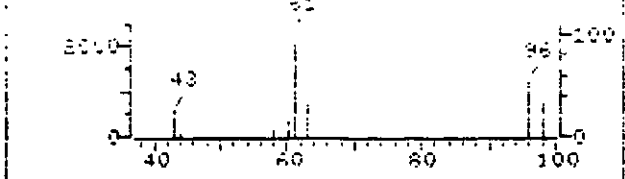


REFERENCE STANDARD SPECTRA



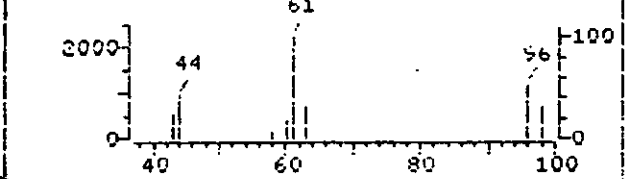
SAMPLE SPECTRUM - BACKGROUND SUBTRACTED

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Bpk Ab 2242 4.65 min.

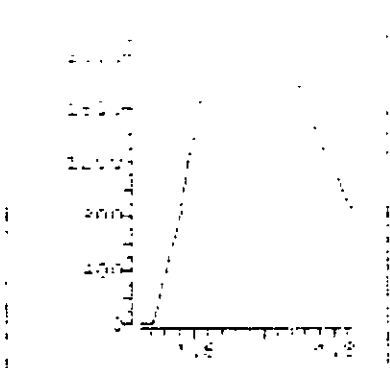


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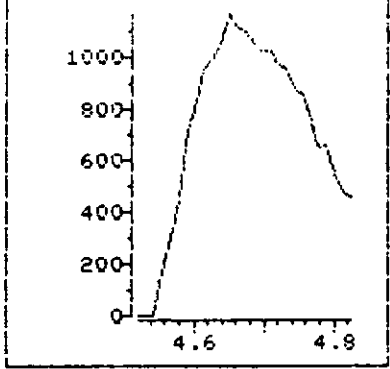
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Bpk Ab 2242 4.65 min.



File >B2984 BALSAM 10128-1 20



File >B2984 95.7-96.7 am

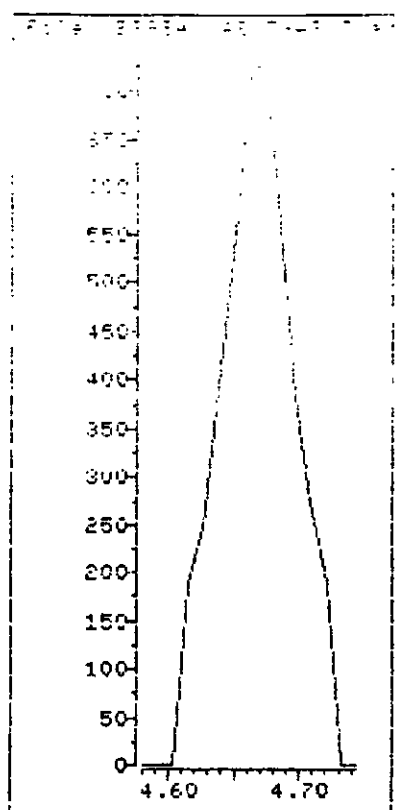
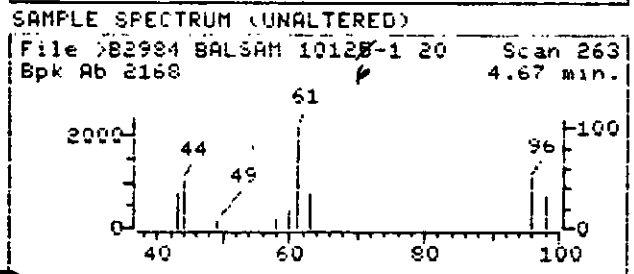
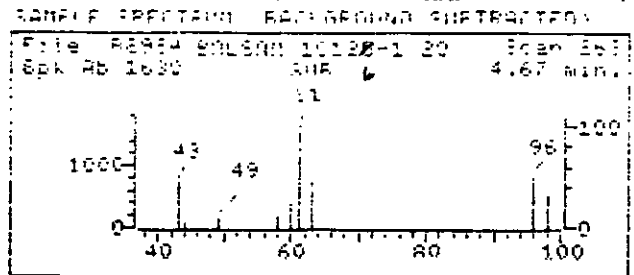
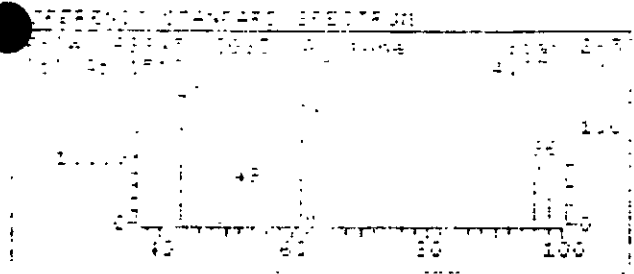


Data File: >B2984::D6  
Name: BALSAM 10128-1 20ULX  
Misc: 02 C11 5UL FS UCC-SB-B-11-2 3.086/10ML 101291  
Quant Time: 911014 18:19  
Injected at: 911014 17:50

Quant Output File: >B2984::Q1  
Quant ID File: QQAID2::\$\$  
Last Calibration: 911014 14:19

Compound No: 6  
Compound Name: C045 1,1-Dichloroethene  
Scan Number: 261  
Retention Time: 4.65 min.  
Quant Ion: 96.0  
Area: 13428  
Concentration: 3.32 UG/L  
q-value: 94

*VT 10/23/91*



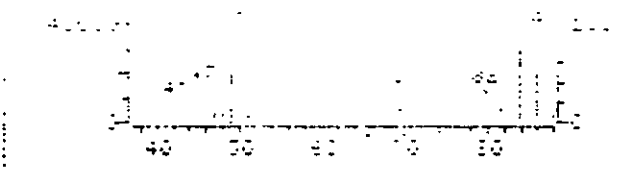
Data File: 82984::D6  
 Name: BALSAM 10128-1 20ULX  
 Misc: V2 C11 9UL 15 UCC-SB-8-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19  
 Injected at: 911014 17:50

Quant Output File: 82984::Q1  
 Quant ID File: QUAID2::\$\$  
 Last Calibration: 911014 14:19

Compound No: 7  
 Compound Name: C035 Acetone  
 Scan Number: 263  
 Retention Time: 4.67 min.  
 Quant Ion: 43.0  
 Area: 2973  
 Concentration: 1.98 UG/L  
 q-value: 100

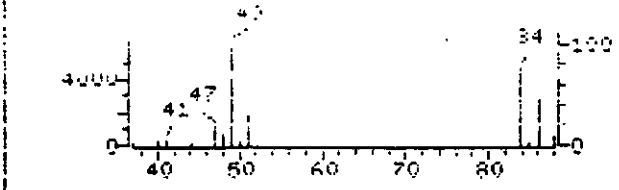
*10/23/91*

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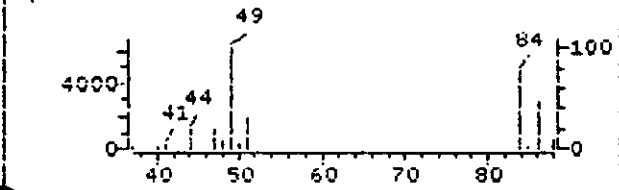
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Bpk Ab 6190 5.20 min.

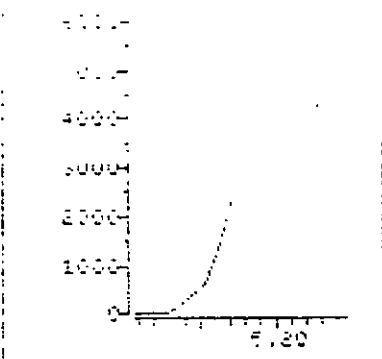


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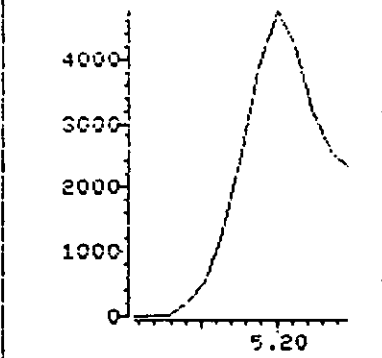
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Bpk Ab 6190 5.20 min.



File >B2984 83.7-84.7 min



File >B2984 83.7-84.7 min



Data File: >B2984::06

Quant Output File: >B2984::01

Name: BALSAM 10128-1 20ULX

Misc: V2 C11 SUL IS UCL-SB-B-11-2 3.08G/10ML 101291

Quant Time: 911014 18:19

Quant ID File: UVAID2::33

Injected at: 911014 17:50

Last Calibration: 911014 14:19

Compound No: 9

Compound Name: C030 Methylene Chloride

Scan Number: 308

Retention Time: 5.20 min.

Quant Ion: 84.0

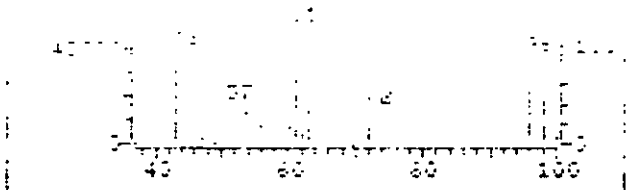
Area: 17891

Concentration: 1.91 UG/L

q-value: 85

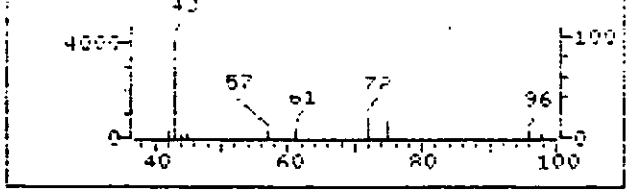
*of 10/23/91*

REFERENCE STANDARD SPECTRUM  
 File B2984 SOLSOLM 10129-1 20 Scan 472  
 Bpk Ab 4262 7.12 min.



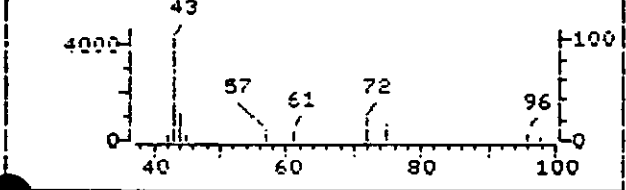
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File B2984 SOLSOLM 10129-1 20 Scan 472  
 Bpk Ab 4262 7.12 min.

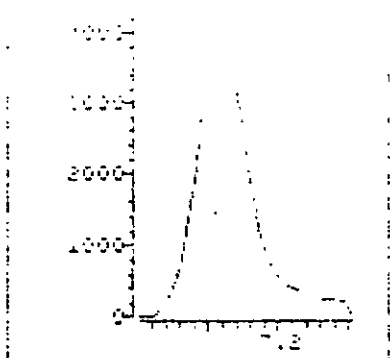


SAMPLE SPECTRUM (UNALTERED)

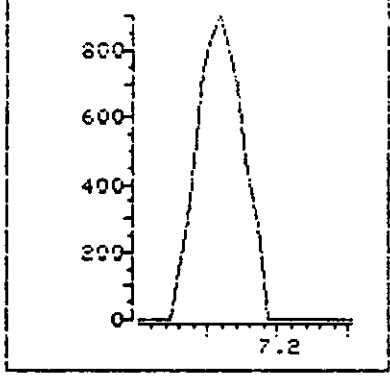
File B2984 BALSAM 10129-1 20 Scan 472  
 Bpk Ab 4262 7.12 min.



File B2984 43 7.12 min



File B2984 71.7-72.7 min

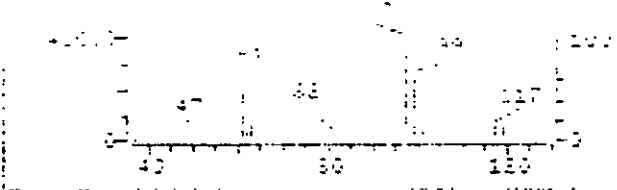


Data File: B2984::06 Quant Output File: B2984::01  
 Name: BALSAM 10129-1 20ULX  
 Misc: V2 C11 5UL 15 UCC-SB-B-11-2 3.086/10ML 101291  
 Quant Time: 911014 18:19 Quant ID File: VDAID2::\$\$  
 Injected at: 911014 17:50 Last Calibration: 911014 14:19

Compound No: 15  
 Compound Name: C110 2-Butanone  
 Scan Number: 472  
 Retention Time: 7.12 min.  
 Quant Ion: 43.0  
 Area: 22458  
 Concentration: 5.86 UG/L  
 q-value: 97

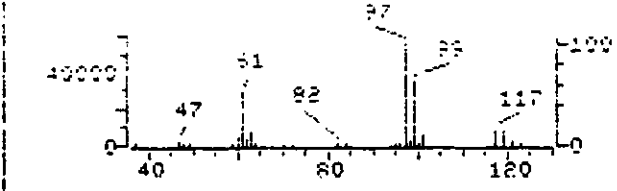
*CA 10/29/91*

REFERENCE STANDARD SPECTRUM  
 File >B2984 BALSAM 10128-1 20 Scan 542  
 Bpk Ab 55448 97.0 7.94 min.



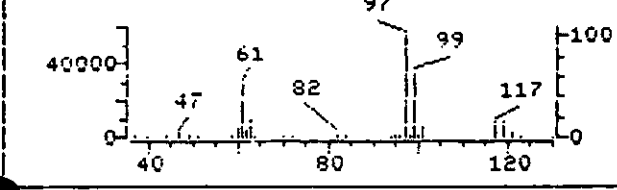
COMP. F. SPECTRUM (BACKGROUND SUBTRACTED)

File >B2984 BALSAM 10128-1 20 Scan 542  
 Bpk Ab 55448 97.0 7.94 min.

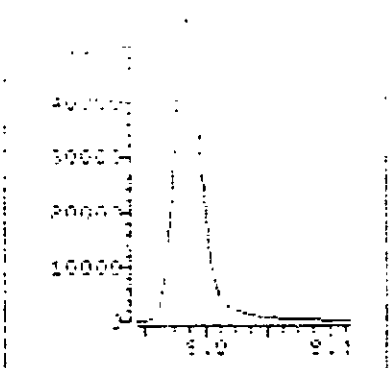


SAMPLE SPECTRUM (UNALTERED)

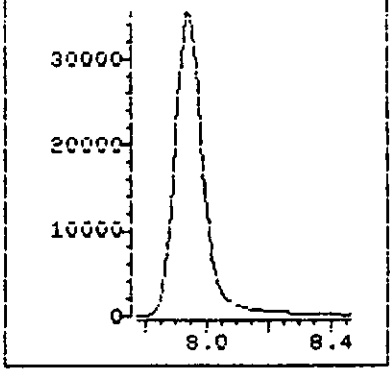
File >B2984 BALSAM 10128-1 20 Scan 542  
 Bpk Ab 55448 97.0 7.94 min.



File >B2984 98.7-99.7 min



File >B2984 98.7-99.7 min

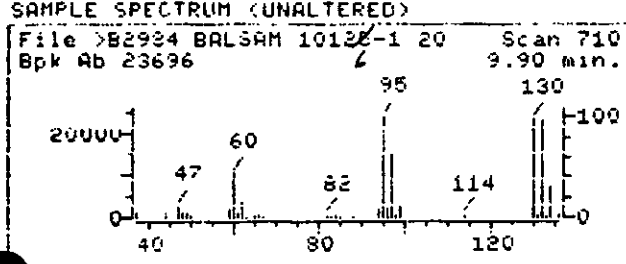
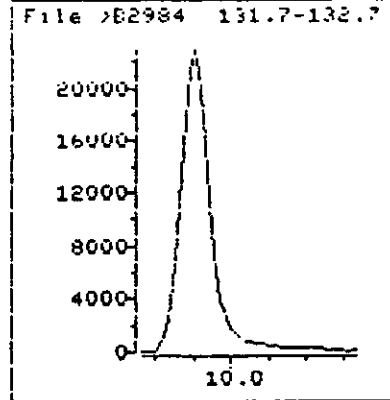
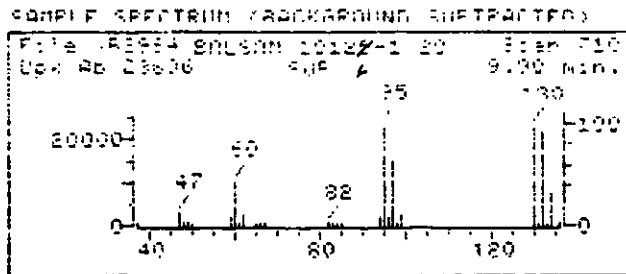
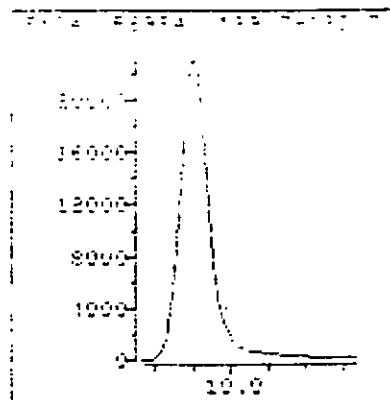
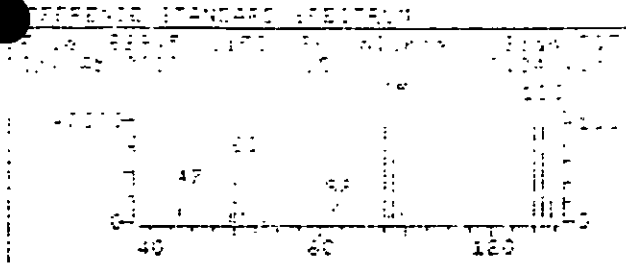


Data File: >B2984::06  
 Name: BALSAM 10128-1 20ULX  
 Misc: V2 C11 5UL IS UCC-SB-B-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19  
 Injected at: 911014 17:50

Quant Output File: >B2984::01  
 Quant ID File: UQAID2::\$\$  
 Last Calibration: 911014 14:19

Compound No: 19  
 Compound Name: C115 1,1,1-Trichloroethane  
 Scan Number: 542  
 Retention Time: 7.94 min.  
 Quant Ion: 97.0  
 Area: 359896  
 Concentration: 51.29 UG/L  
 q-value: 92

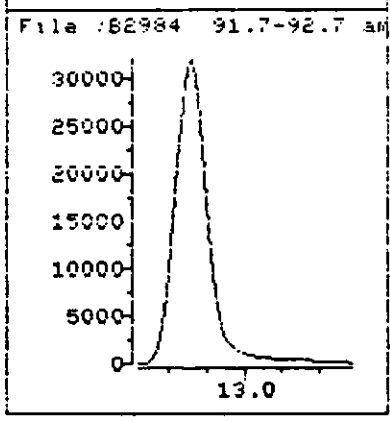
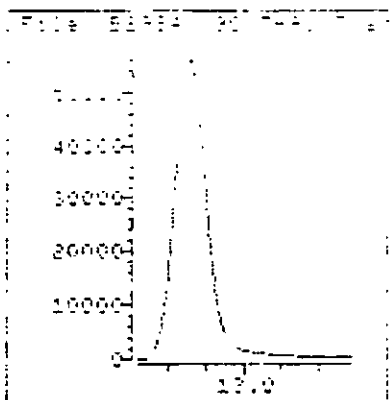
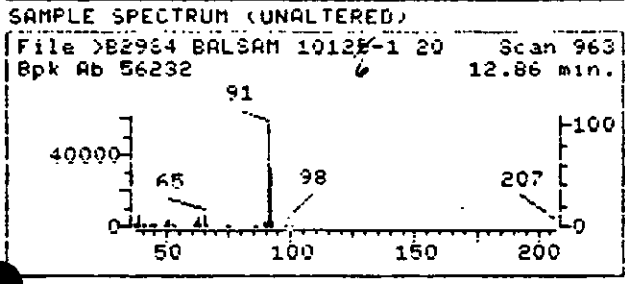
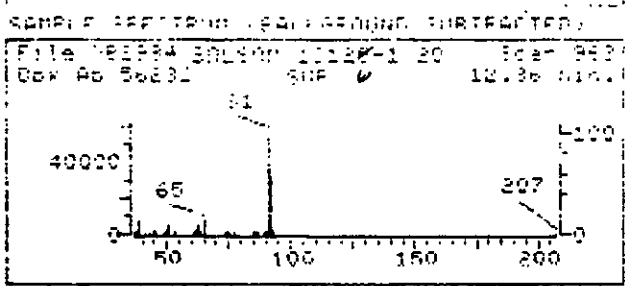
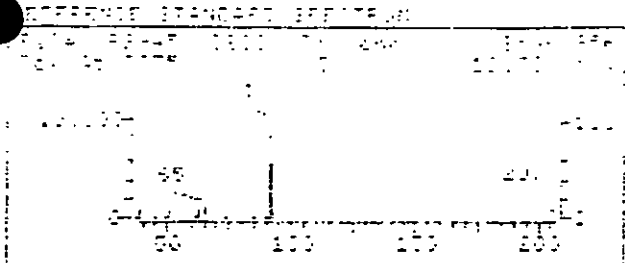
*10/23/91*



Date File: >B2984::06                      Quant Output File: >B2984::Q1  
 Name: BALSAM 10122-1 20ULX  
 Misc: V2 C11 5UL 15 ULL-SB-B-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19                      Quant ID File: VQAID2::\$\$  
 Injected at: 911014 17:50                      Last Calibration: 911014 14:19

Compound No: 22  
 Compound Name: C150 Trichloroethene  
 Scan Number: 710  
 Retention Time: 9.90 min.  
 Quant Ion: 130.0  
 Area: 131725  
 Concentration: 21.88 UG/L  
 q-value: 99

*10/23/91*

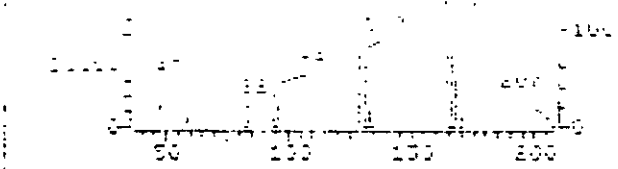


Data File: >B2984::D6  
 Name: BALSAM 10129-1 20ULX  
 Misc: V2 C11 SUL IS UCC-SB-8-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19  
 Injected at: 911014 17:50

Quant Output File: >B2984::Q1  
 Quant ID File: UOAI02::\$\$  
 Last Calibration: 911014 14:19

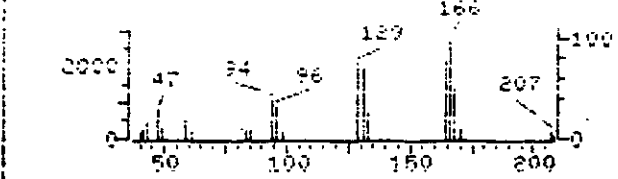
Compound No: 34  
 Compound Name: C230 Toluene  
 Scan Number: 963  
 Retention Time: 12.86 min.  
 Quant Ion: 92.0  
 Area: 193002  
 Concentration: 20.51 UG/L  
 q-value: 97

CONTINUED STANDARD SPECTRA  
 File B2984 BALSAM 10129-1 20 Scan 1085  
 Bpk Ab 2796 14.29 min.



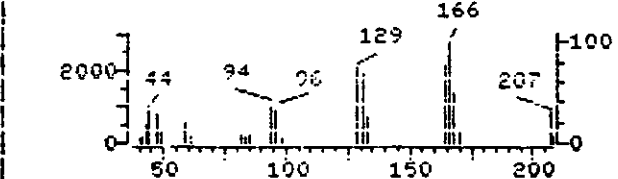
SAMPLE SPECTRUM (UNALTERED)

File B2984 BALSAM 10129-1 20 Scan 1085  
 Bpk Ab 2796 14.29 min.

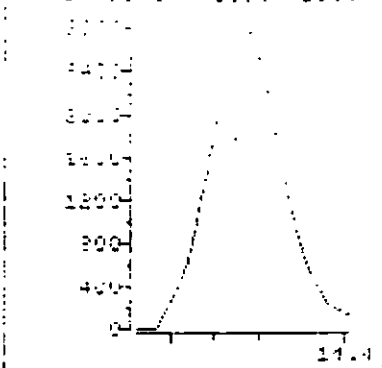


SAMPLE SPECTRUM (UNALTERED)

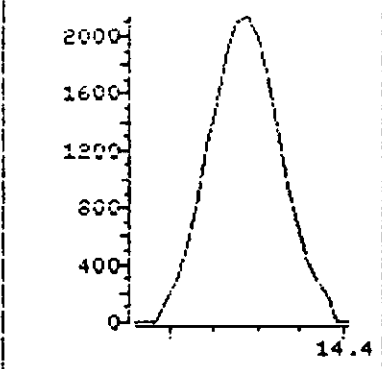
File B2984 BALSAM 10129-1 20 Scan 1085  
 Bpk Ab 2796 14.29 min.



File B2984 163.7-164.7



File B2984 163.7-164.7



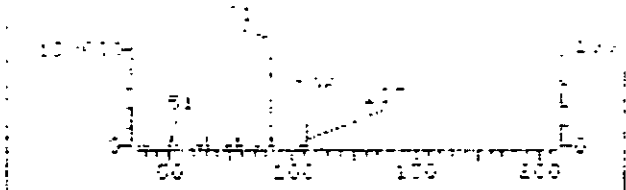
Data File: \B2984::D6                      Quant Output File: \B2984::Q1  
 Name: BALSAM 10129-1 20ULX  
 Misc: U2 C11 5UL IS UCC-SB-B-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19                      Quant ID File: UUA1U2::\$\$  
 Injected at: 911014 17:50                      Last Calibration: 911014 14:19

Compound No: 36  
 Compound Name: C220 Tetrachloroethene  
 Scan Number: 1085  
 Retention Time: 14.29 min.  
 Quant Ion: 164.0  
 Area: 12758  
 Concentration: 2.87 UG/L  
 q-value: 92

*10/23/91*

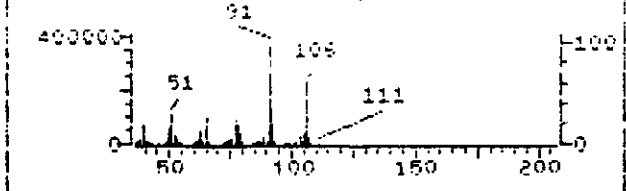


REFERENCE SPECTRUM  
 File B2984 BALSAM 10127-1 20 Scan 1324  
 Bpk Ab 374210 17.09 min.



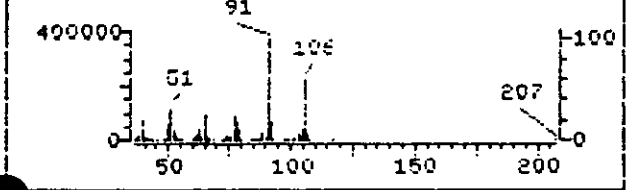
ADJUSTED SPECTRUM (REF) AGAINST SUBTRACTED.

File B2984 BALSAM 10127-1 20 Scan 1324  
 Bpk Ab 374210 17.09 min.

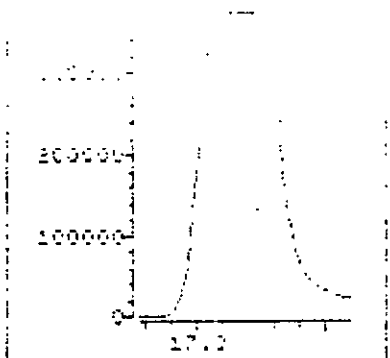


SAMPLE SPECTRUM (UNALTERED)

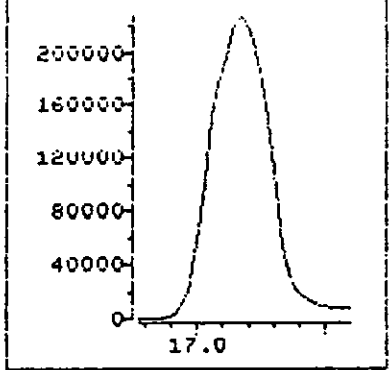
File B2984 BALSAM 10127-1 20 Scan 1324  
 Bpk Ab 374210 17.09 min.



File B2984 105.7-106.7



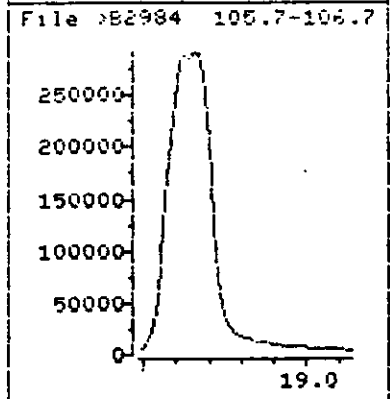
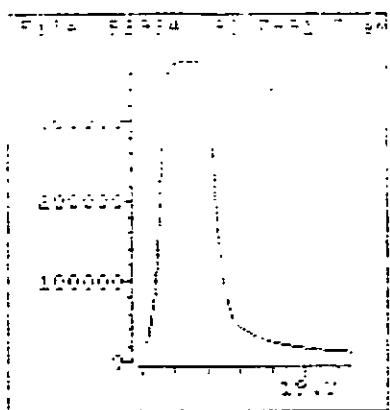
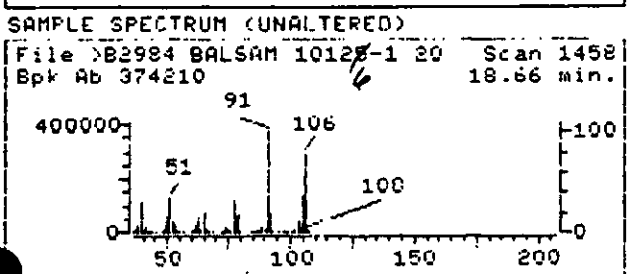
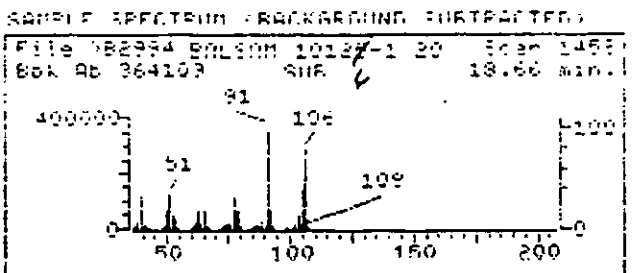
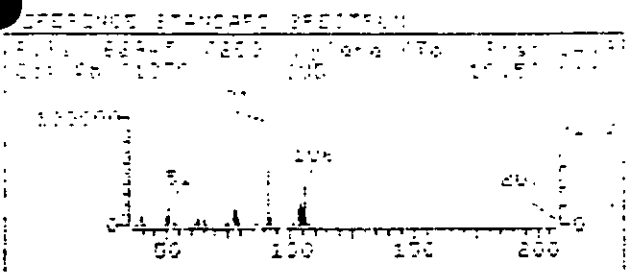
File B2984 105.7-106.7



Data File: B2984::D6 Quant Output File: B2984::Q1  
 Name: BALSAM 10127-1 20ULX  
 Misc: U2 C11 SUL IS UCC-SB-B-11-2 3.08G/10ML 101291  
 Quant Time: 911014 18:19 Quant ID File: UDAID2::\$\$  
 Injected at: 911014 17:50 Last Calibration: 911014 14:19

Compound No: 38  
 Compound Name: C240 Ethylbenzene  
 Scan Number: 1324  
 Retention Time: 17.09 min.  
 Quant Ion: 106.0  
 Area: 1833084  
 Concentration: 355.31 UG/L  
 q-value: 43

*LT 10/23/91*



Data File: >B2984::Do  
 Name: BALSAM 10128-1 20ULX  
 Misc: U2 C11 5UL IS UCC-SB-B-11-2 3.086/10ML 101291  
 Quant Time: 911014 18:19  
 Injected at: 911014 17:50

Quant Output File: >B2984::D1  
 Quant ID File: UDAID2::\$\$  
 Last Calibration: 911014 14:19

Compound No: 47  
 Compound Name: C250 Xylene (Total)  
 Scan Number: 1458  
 Retention Time: 18.66 min.  
 Quant Ion: 106.0  
 Area: 2684357  
 Concentration: 398.81 UG/L  
 q-value: 38

4/10/23/91

1013.62

MB 10/24/91

Data Reduced by : JJ Date: 10/15/91  
 Data Reviewed by : MB Date: 10/22/91

Data File: >B2984

Enseco TIC Report (page 1)

Sample: BALSAM 1012<sup>6</sup>-1 20ULX <sup>at 10/23/91</sup> Run Factor: 812.  
 Conditions: V2 C11 5UL IS UCC-SB-B-11-2 3. Analyst: ALANA

# Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound	TCL (Xylene)
1	1354.		300000.	108-38-3	Benzene, 1,3-dimethyl-	<del>C<sub>8</sub>H<sub>10</sub> isomer</del>
2	1678.		150000.	106-68-3	3- Octanone	✓ C <sub>8</sub> H <sub>16</sub> isomer
3	1700.		41000.	611-14-3	Benzene, 1-ethyl-2-methyl-	✓ isomer
4	1726.		37000.X	622-96-8	Benzene, 1-ethyl-4-methyl-	✓
5	1751.		62000.	124-18-5	Decane	✓ unknown alkane
6	1776.		250000.	815-24-7	3-Pentanone, 2,2,4,4-tetramethyl-	✓ C <sub>9</sub> H <sub>18</sub> isomer
7	1830.		110000.	108-67-8	Benzene, 1,3,5-trimethyl-	<del>C<sub>9</sub>H<sub>12</sub> isomer</del>
8	1867.		43000.	591-78-6	2-Hexanone	unknown → C <sub>3</sub> Benzene isomer
9	1947.		38000.	611-14-3	Benzene, 1-ethyl-2-methyl-	<del>C<sub>9</sub>H<sub>12</sub> isomer</del>
10	2021.		49000.	1074-43-7	Benzene, 1-methyl-3-propyl-	✓ C <sub>9</sub> Benzene isomer
11	2044.		60000.	535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	✓
12	2104.		38000.	1120-21-4	Undecane	unknown alkane → Benzene isomer
13	2151.		35000.Y	535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	✓
14	2268.		37000.X	488-23-3	Benzene, 1,2,3,4-tetramethyl-	✓
15	2283.		28000.Y	488-23-3	Benzene, 1,2,3,4-tetramethyl-	✓

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 (UG/L)
1	75	17	3	17.44	1.052	13827902.	1923711.	369.706
2	86	6	3	21.24	1.281	6757301.	921832.	180.665
3	97	8	3	21.50	1.297	1887416.	241594.	50.462
4	92	29	3	21.81	1.315	1701918.	219035.	45.503
5	94	0	3	22.10	1.333	2844674.	448711.	76.056
6	95	2	3	22.40	1.351	11593650.	1487456.	309.970
7	88	4	3	23.03	1.389	4931164.	642534.	131.841
8	15	57	3	23.47	1.415	1982900.	264381.	53.015
9	89	8	3	24.41	1.472	1743491.	269070.	46.614
10	97	5	3	25.30	1.525	2236062.	235199.	59.784
11	94	7	3	25.57	1.542	2780914.	308485.	74.351
12	95	4	3	26.27	1.584	1731864.	273782.	46.304
13	96	3	3	26.82	1.618	1601480.	264859.	42.818
14	95	6	3	28.20	1.701	1708656.	181614.	45.683
15	96	1	3	28.38	1.711	1275248.	215033.	34.095

Internal Standard Report

Data File: >B2984

Maximum separation of RIC and Quant 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
502.	177325.	7.292 502. 1280181.	99.007
2	CI10 1,4-Difluorobe	50.000 UG/L	Ok
665.	732440.	2.409 665. 1670209.	94.645
3	CI20 D5-Chlorobenze	50.000 UG/L	Ok
1281.	542068.	3.457 1281. 1870122.	99.789

Deleting peaks from INT file: UDIR73

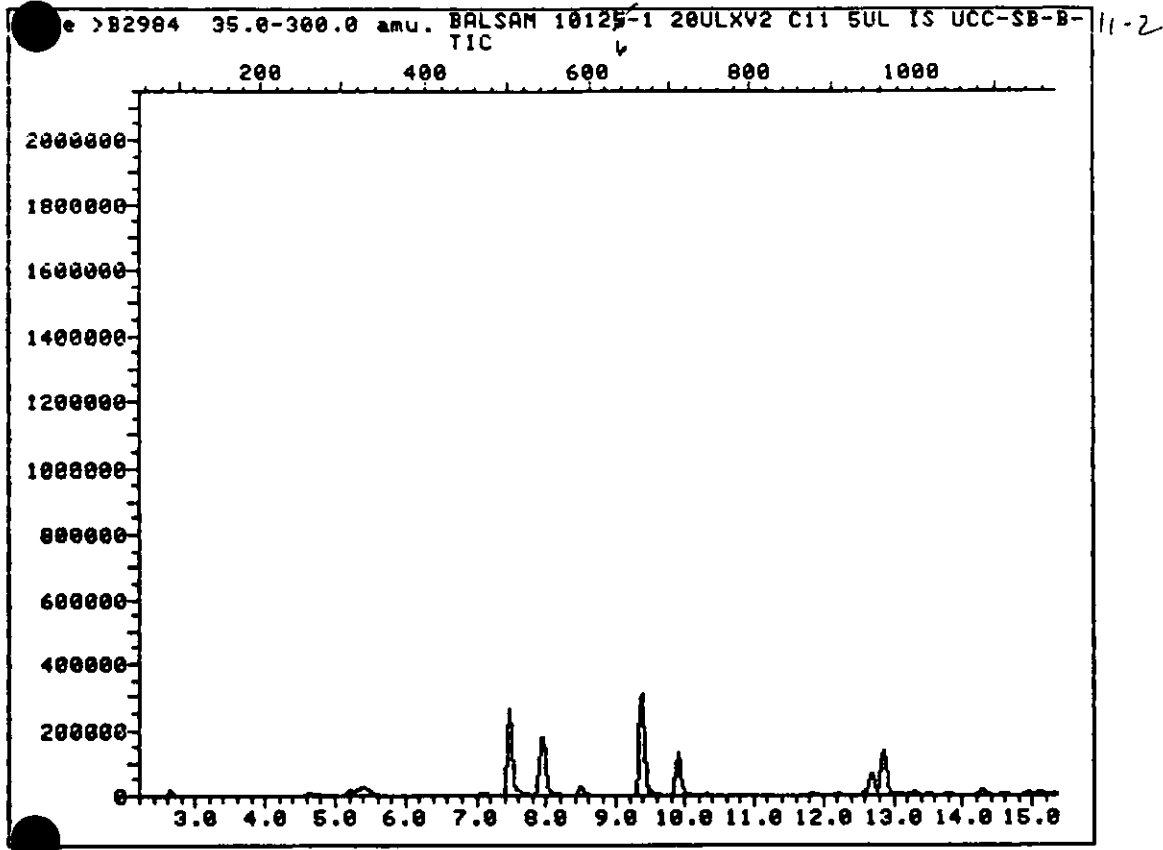
Minimum area: 10 % of area of closest Int. Std.  
Number of peaks: 23  
Number of peaks remaining: 23

Deleting target compounds from INT file: UDIR73

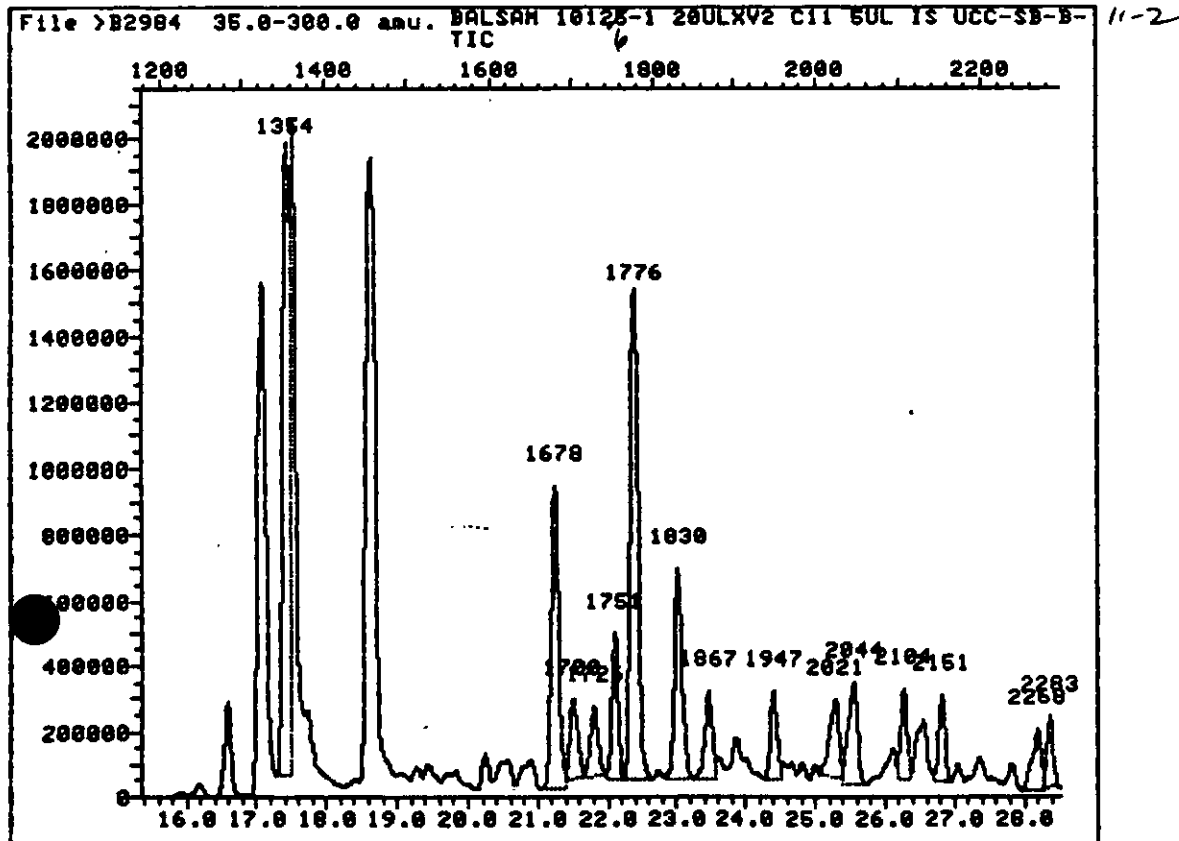
Minimum separation of TIC and target: 5.  
Maximum fraction of RIC peak from targets: 40. %  
Number of peaks: 23  
Number of peaks remaining: 16

Deleting all but largest peaks from INT file: UDIR73

Maximum number of peaks to keep: 15  
Number of peaks: 16  
Number of peaks remaining: 15



10/23/91



000041

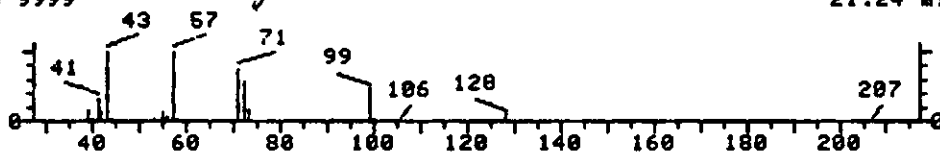
C NUMBER:2

- |  |             |
|--|-------------|
| 1. 3-Octanone (8CI9CI)                   | 128 C8H16O  |
| 2. 3-Heptanone, 5-methyl- (8CI9CI)       | 128 C8H16O  |
| 3. 3-Heptanone, 6-methyl- (8CI9CI)       | 128 C8H16O  |
| 4. Hexane, 2,4,4-trimethyl- (8CI9CI)     | 128 C9H20   |
| 5. 4-Heptanone, 3-methyl- (8CI9CI)       | 128 C8H16O  |
| 6. 2-Pentene, 5-(pentyloxy)-, (E)- (9CI) | 156 C10H20O |

Sample file: >B2984      Spectrum #:      1678  
Search speed: 1      Tilting option: S      No. of ion ranges searched: 41

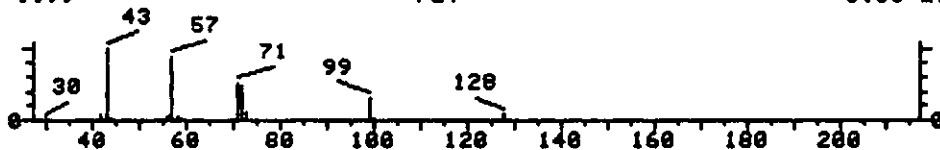
Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	86*	106683	4221	"BIGDB	72	27	1	0	99	6	59	71
2.	83	541855	8862	"BIGDB	71	36	2	0	81	3	57	23
3.	39*	624420	4222	"BIGDB	30	73	1	0	88	26	14	16
4.	37	16747301	3925	"BIGDB	41	47	1	0	89	26	14	14
5.	36*	15726155	3992	"BIGDB	47	49	2	0	68	37	14	23
6.	27	56052858	8761	"BIGDB	39	41	2	0	88	40	10	13

File >B2984 BALSAM 10125-1 20ULXV2 C11 SUL IS UCC-SB-B-11-2 3 Scan 1678  
Ab 9999 21.24 min.



✓ Jg 101591

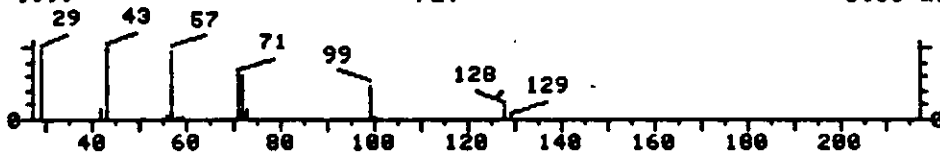
File "BIGDB 3-Octanone (8CI9CI) Scan 4221  
Bpk Ab 9999 FLT 0.00 min.



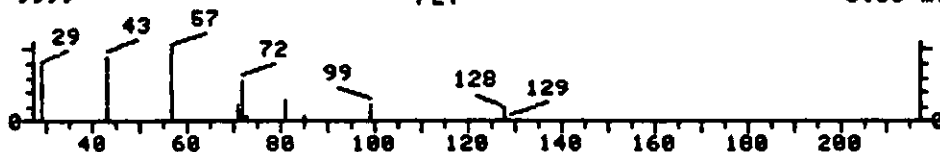
C8H16O lower

MB 10/22/91

File "BIGDB 3-Heptanone, 5-methyl- (8CI9CI) Scan 8862  
Bpk Ab 9999 FLT 0.00 min.



File "BIGDB 3-Heptanone, 6-methyl- (8CI9CI) Scan 4222  
Bpk Ab 9999 FLT 0.00 min.



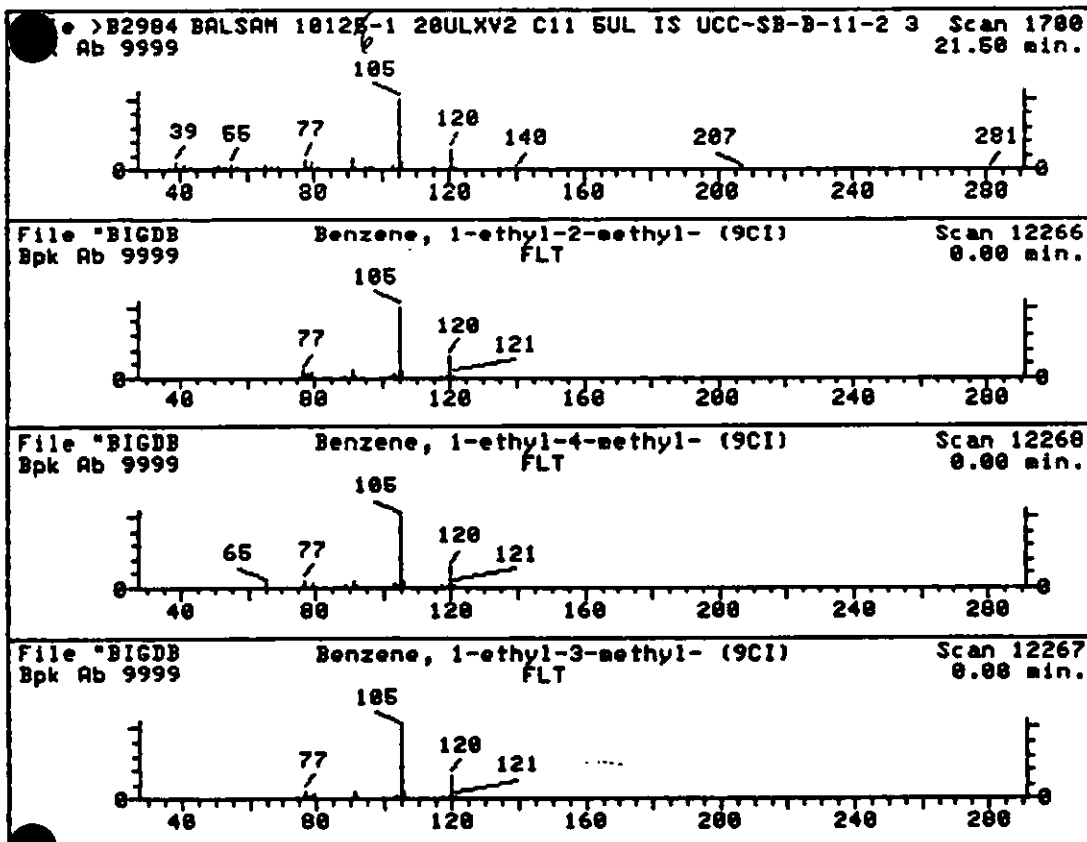
000042

IC NUMBER: 3

- ①. Benzene, 1-ethyl-2-methyl- (9CI) *isomer* 120 C9H12
- 2. Benzene, 1-ethyl-4-methyl- (9CI) *MB: 2/2/91* 120 C9H12
- 3. Benzene, 1-ethyl-3-methyl- (9CI) 120 C9H12
- 4. Benzene, (1-methylethyl)- (9CI) 120 C9H12
- 5. Benzene, 1,2,3-trimethyl- (8CI9CI) 120 C9H12
- 6. Benzene, 1,1'-(1-methyl-1,2-ethanediyl)bis- (9CI) 196 C15H16

Sample file: >B2984      Spectrum #: 1700  
 Search speed: 1      Tilting option: S      No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	97*	611143	12266	"BIGDB	78	7	0	0	93	8	68	97
2.	95*	622968	12268	"BIGDB	78	7	1	0	89	8	68	95
3.	93*	620144	12267	"BIGDB	74	13	0	1	69	10	68	92
4.	83*	98828	12259	"BIGDB	69	18	1	0	82	13	51	77
5.	48*	526738	12280	"BIGDB	67	33	2	-1	59	37	17	37
6.	41	5814857	9857	"BIGDB	51	48	2	0	100	24	17	12



✓ Jg 101591

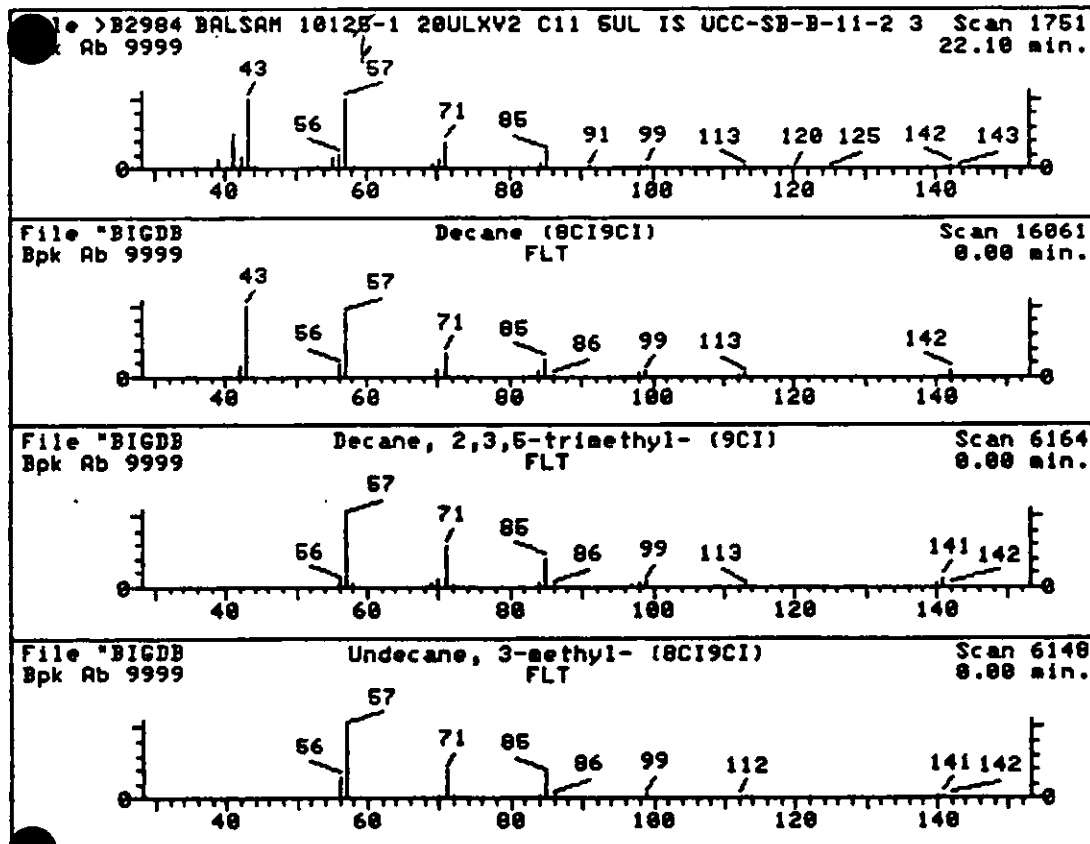


IC NUMBER:5

- |                                    |            |
|------------------------------------|------------|
| 1. Decane (8CI9CI)                 | 142 C10H22 |
| 2. Decane, 2,3,5-trimethyl- (9CI)  | 184 C13H28 |
| 3. Undecane, 3-methyl- (8CI9CI)    | 170 C12H26 |
| 4. Octane, 3,5-dimethyl- (8CI9CI)  | 142 C10H22 |
| 5. Octane, 2,7-dimethyl- (8CI9CI)  | 142 C10H22 |
| 6. Decane, 6-ethyl-2-methyl- (9CI) | 184 C13H28 |

Sample file: >B2984 Spectrum #: 1751  
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*	124185	16061	"BIGDB	91	9	1	2	89	0	72	92
2.	70	62238113	6164	"BIGDB	62	41	2	1	68	10	42	14
3.	70	1002433	6148	"BIGDB	47	41	2	0	69	7	42	16
4.	63*	15869939	3611	"BIGDB	49	44	2	0	100	19	30	30
5.	60*	1072168	8726	"BIGDB	38	57	3	0	99	11	30	13
6.	60	62108218	6163	"BIGDB	61	38	2	1	94	13	30	14



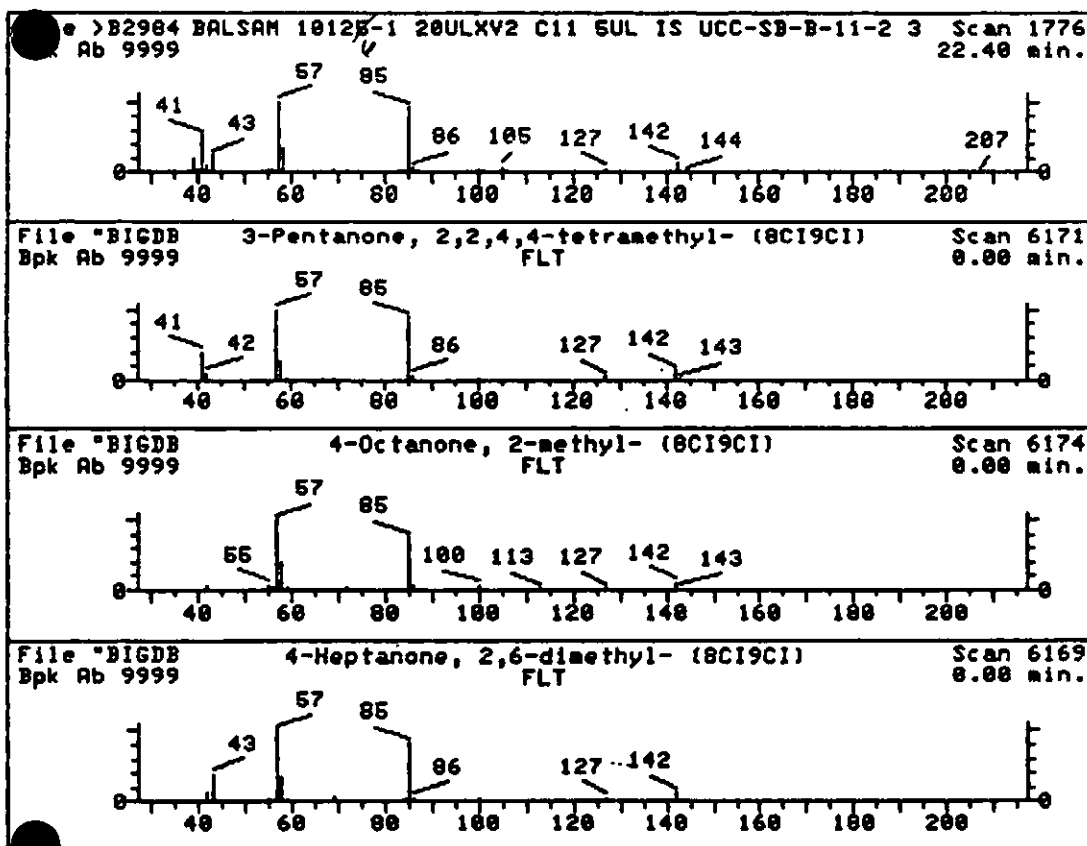
*Unknown alkane*  
*MB idip*  
*✓ J 101591*

TIC NUMBER:6

- |   |             |
|---|-------------|
| 1. 3-Pentanone, 2,2,4,4-tetramethyl- (8CI9CI)           | 142 C9H18O  |
| 2. 4-Octanone, 2-methyl- (8CI9CI)                       | 142 C9H18O  |
| 3. 4-Heptanone, 2,6-dimethyl- (8CI9CI)                  | 142 C9H18O  |
| 4. Pyrrolidine, 1-(1-isobutyl-3-methyl-1-butenyl)- (8CI | 195 C13H25N |
| 5. Butanoic acid, 3-methyl-, 2-propenyl ester (9CI)     | 142 C8H14O2 |
| 6. 1H-Tetrazol-5-amine (9CI)                            | 85 CH3N5    |

Sample file: >B2984      Spectrum #: 1776  
Search speed: 1      Tilting option: S      No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	95*	815247	6171	"BIGDB	80	13	0	0	100	2	72	95
2.	87*	7492388	6174	"BIGDB	58	34	2	0	88	3	63	44
3.	78*	108838	6169	"BIGDB	54	45	3	0	100	3	55	19
4.	76	3494040	6173	"BIGDB	69	26	1	3	89	7	45	27
5.	60*	2835394	6014	"BIGDB	28	67	3	0	100	14	30	13
6.	52*	4418615	5	"BIGDB	21	104	2	0	100	19	20	13



*C<sub>9</sub>H<sub>18</sub>O isomer*  
*MB 10/20/16*  
*✓ JG 101591*

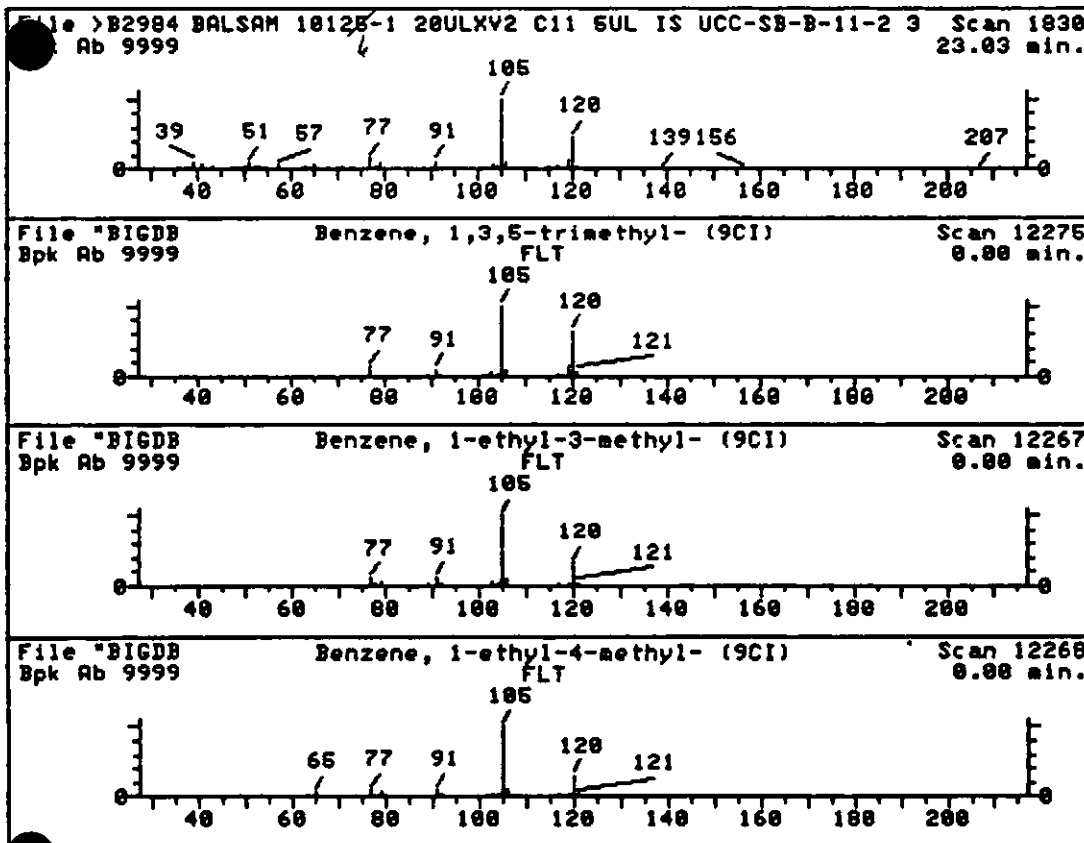
000045

1. C NUMBER: 7

- 1. Benzene, 1,3,5-trimethyl- (9CI) 120 C9H12
- 2. Benzene, 1-ethyl-3-methyl- (9CI) 120 C9H12
- 3. Benzene, 1-ethyl-4-methyl- (9CI) 120 C9H12
- 4. Benzene, 1-ethyl-2-methyl- (9CI) 120 C9H12
- 5. Benzene, (1-methylethyl)- (9CI) 120 C9H12
- 6. 1,3-Cyclopentadiene, 5-(1-methylpropylidene)- (9CI) 120 C9H12

Sample file: >B2984 Spectrum #: 1830  
Search speed: 1 Tilting option: S No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	88*	108678	12275	"BIGDB	65	23	2	0	73	4	65	55
2.	84*	620144	12267	"BIGDB	70	17	2	0	100	7	55	61
3.	75*	622968	12268	"BIGDB	59	26	1	0	100	20	35	61
4.	75*	611143	12266	"BIGDB	59	26	1	0	93	20	35	61
5.	73*	98828	12259	"BIGDB	63	24	0	-2	100	23	32	63
6.	70*	3141024	12286	"BIGDB	40	64	3	0	76	10	42	13



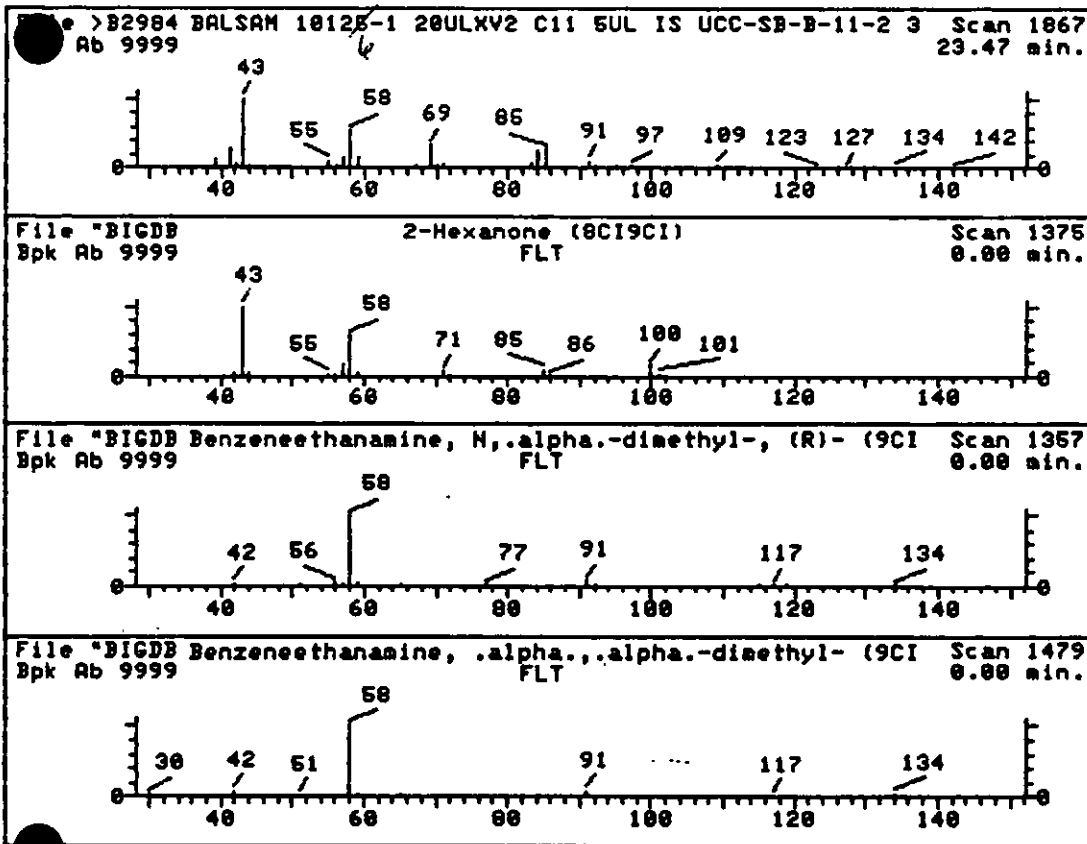
*C<sub>3</sub>-Benzene isomer MB 10/11/14*  
*C<sub>9</sub>H<sub>12</sub> isomer JG 10/15/91*

LC NUMBER: 8

- |   |             |
|---|-------------|
| 1. 2-Hexanone (8CI9CI)                                | 100 C6H12O  |
| 2. Benzeneethanamine, N,.alpha.-dimethyl-, (R)- (9CI) | 149 C10H15N |
| 3. Benzeneethanamine, .alpha.,.alpha.-dimethyl- (9CI) | 149 C10H15N |
| 4. Methanamine, N,N-dimethyl- (9CI)                   | 59 C3H9N    |
| 5. 2-Hexanone, 4-hydroxy-3-propyl- (9CI)              | 158 C9H18O2 |
| 6. Undecanal, 2-methyl- (8CI9CI)                      | 184 C12H24O |

Sample file: >B2984      Spectrum #:      1867  
Search speed: 1      Tilting option: S      No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	15	591786	1375	"BIGDB	40	43	2	0	92	57	3	14
2.	15	33817093	1357	"BIGDB	34	39	1	0	55	57	3	12
3.	15	122098	1479	"BIGDB	25	33	0	0	47	57	3	12
4.	15*	75503	1250	"BIGDB	29	38	1	0	45	57	3	16
5.	15	62338174	1380	"BIGDB	34	53	1	0	83	59	3	12
6.	15	110418	1452	"BIGDB	34	56	1	0	55	57	3	12



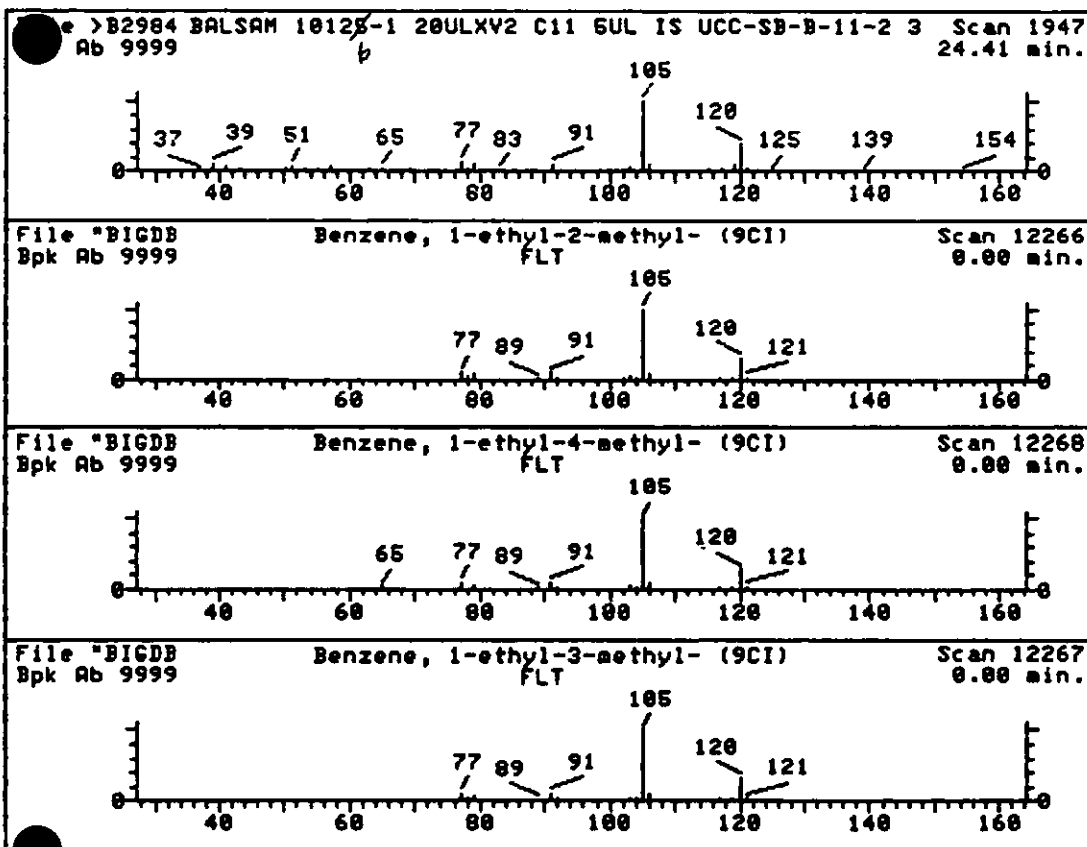
unknown  
Jg 101591

PIC NUMBER: 9

- |                                       |           |
|---------------------------------------|-----------|
| 1. Benzene, 1-ethyl-2-methyl- (9CI)   | 120 C9H12 |
| 2. Benzene, 1-ethyl-4-methyl- (9CI)   | 120 C9H12 |
| 3. Benzene, 1-ethyl-3-methyl- (9CI)   | 120 C9H12 |
| 4. Benzene, (1-methylethyl)- (9CI)    | 120 C9H12 |
| 5. Benzene, 1,2,3-trimethyl- (8CI9CI) | 120 C9H12 |
| 6. Benzene, 1,2,4-trimethyl- (8CI9CI) | 120 C9H12 |

Sample file: >B2984      Spectrum #:      1947  
Search speed: 1      Tilting option: S      No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	89*	611143	12266	"BIGDB	68	17	1	0	88	8	62	80
2.	86*	622968	12268	"BIGDB	67	18	1	0	94	8	59	77
3.	86*	620144	12267	"BIGDB	68	19	1	0	88	8	59	76
4.	84*	98828	12259	"BIGDB	62	25	0	-2	91	8	55	61
5.	74*	526738	12280	"BIGDB	74	26	1	0	56	27	37	72
6.	73*	95636	12273	"BIGDB	72	23	1	0	54	27	37	71



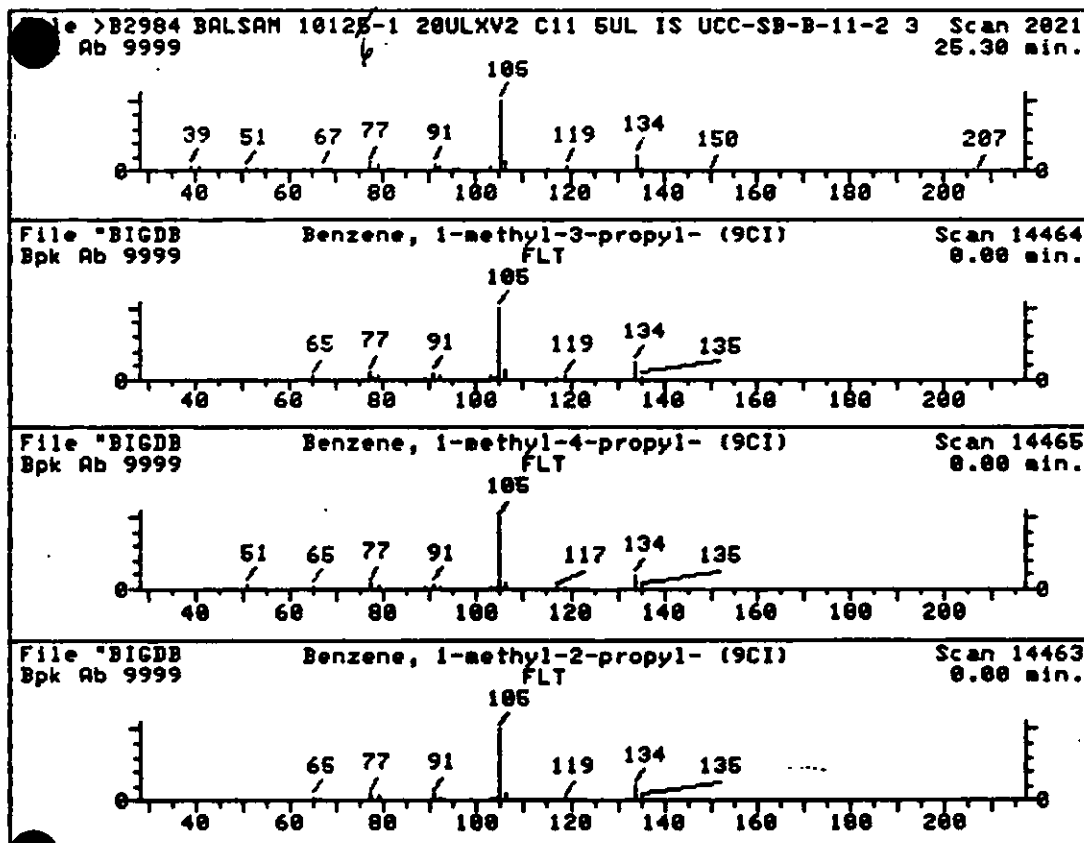
*C<sub>3</sub> Benzene isomer  
HB 10/27/91  
C<sub>9</sub>H<sub>12</sub> womer  
JG 10/59/1*

IC NUMBER:10

- |  |            |
|--|------------|
| 1. Benzene, 1-methyl-3-propyl- (9CI)           | 134 C10H14 |
| 2. Benzene, 1-methyl-4-propyl- (9CI)           | 134 C10H14 |
| 3. Benzene, 1-methyl-2-propyl- (9CI)           | 134 C10H14 |
| 4. Benzene, (1-methylpropyl)- (9CI)            | 134 C10H14 |
| 5. Benzene, (1-methyl-3-butenyl)- (9CI)        | 146 C11H14 |
| 6. Benzene, (1,2,2-trimethyl-3-butenyl)- (9CI) | 174 C13H18 |

Sample file: >B2984      Spectrum #:      2021  
Search speed: 1      Tilting option: S      No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	97*	1074437	14464	"BIGDB	87	0	0	0	97	5	72	97
2.	95*	1074551	14465	"BIGDB	67	16	0	0	92	8	68	94
3.	89*	1074175	14463	"BIGDB	68	17	1	0	90	8	62	80
4.	79*	135988	14459	"BIGDB	55	31	0	0	74	15	43	66
5.	38	10340495	9870	"BIGDB	45	35	2	0	74	29	14	15
6.	38	61142174	9915	"BIGDB	45	41	2	0	100	28	14	15



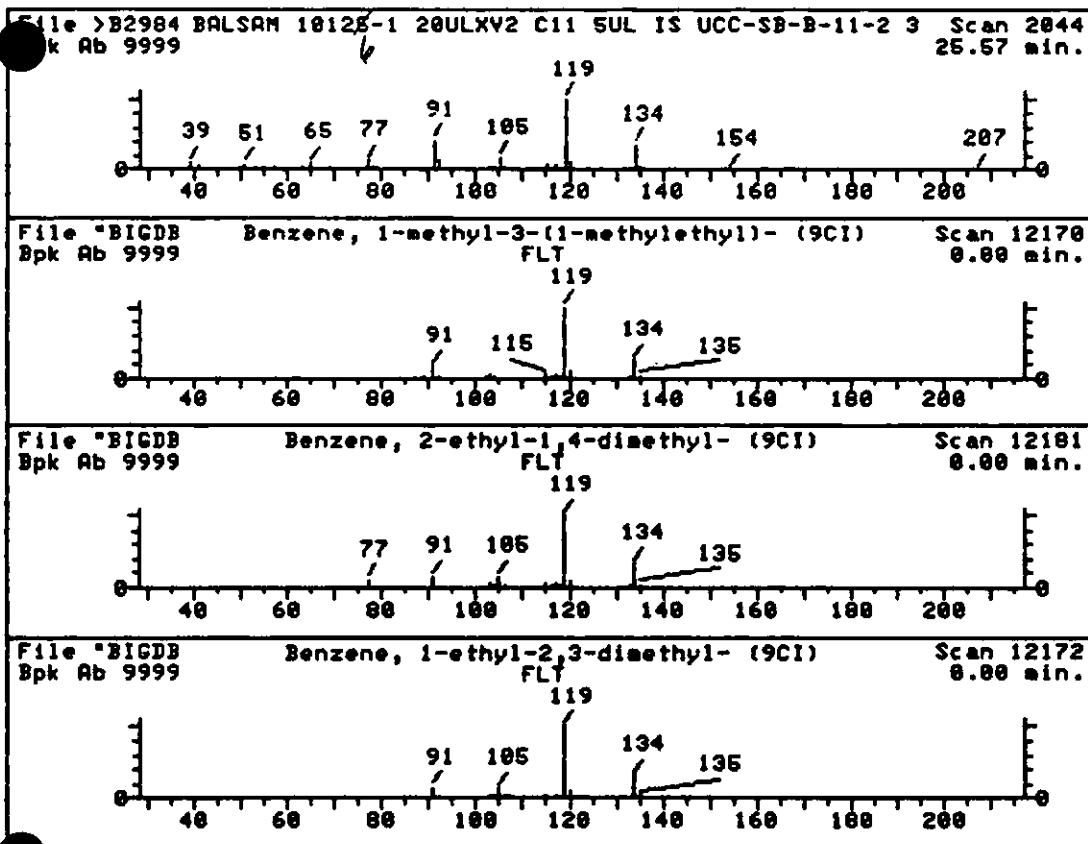
*C4 Benzene isomer*  
*MB 10/21/9*  
*JG 10/591*

IC NUMBER: 11

- |   |            |
|---|------------|
| 1. Benzene, 1-methyl-3-(1-methylethyl)- (9CI) | 134 C10H14 |
| 2. Benzene, 2-ethyl-1,4-dimethyl- (9CI)       | 134 C10H14 |
| 3. Benzene, 1-ethyl-2,3-dimethyl- (9CI)       | 134 C10H14 |
| 4. Benzene, 2-ethyl-1,3-dimethyl- (9CI)       | 134 C10H14 |
| 5. Benzene, 1-ethyl-2,4-dimethyl- (9CI)       | 134 C10H14 |
| 6. Benzene, 1,2,3,4-tetramethyl- (8CI9CI)     | 134 C10H14 |

Sample file: >B2984      Spectrum #:      2044  
 Search speed: 1      Tilting option: S      No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	94*	535773	12170	"BIGDB	72	17	0	0	98	7	68	93
2.	93*	1758889	12181	"BIGDB	73	21	0	0	76	8	68	92
3.	86*	933982	12172	"BIGDB	79	12	1	2	100	8	59	78
4.	84*	2870044	12174	"BIGDB	67	22	1	0	100	8	55	69
5.	84*	874419	12171	"BIGDB	66	22	1	0	98	8	55	69
6.	84*	488233	14484	"BIGDB	68	26	1	0	69	7	55	66



*c4-Benzene from MB 10/22/99*  
*101591*

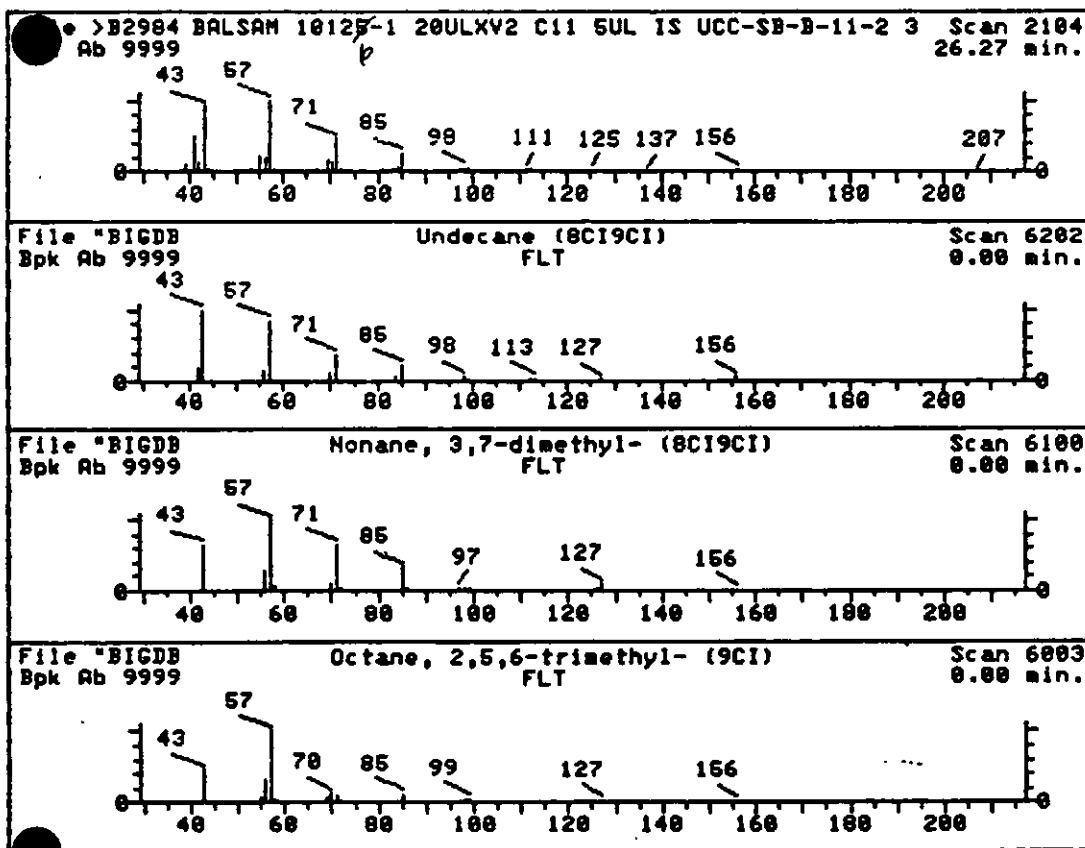
IC NUMBER:12

1. Undecane (8C19CI)
2. Nonane, 3,7-dimethyl- (8C19CI)
3. Octane, 2,5,6-trimethyl- (9CI)
4. Decane, 6-ethyl-2-methyl- (9CI)
5. Nonane, 2,5-dimethyl- (8C19CI)
6. Isooctane, (ethenyloxy)- (9CI)

- 156 C11H24
- 156 C11H24
- 156 C11H24
- 184 C13H28
- 156 C11H24
- 156 C10H20

Sample file: >B2984      Spectrum #:      2104  
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.	95*	1120214	6202	"BIGDB	82	15	0	0	91	4	72	95
2.	81*	17302328	6100	"BIGDB	56	30	1	2	71	9	53	46
3.	65*	62016142	6003	"BIGDB	45	42	0	0	67	32	24	53
4.	60	62108218	6163	"BIGDB	57	42	1	0	85	13	30	19
5.	59*	17302271	8752	"BIGDB	55	40	2	0	90	22	27	35
6.	58*	37769623	3941	"BIGDB	49	54	2	0	86	16	25	22



*Unknown alkane*  
*MS 10/21/9,*  
*✓ J 101591*

000051



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-11-2DL

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10126-01DL  
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: A3520  
 Level: (low/med) MED Date Received: 10/04/91  
 % Moisture: not dec. 23 Date Analyzed: 10/15/91  
 Column: (pack/cap) CAP Dilution Factor: 20

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	130000	U
74-83-9	-----Bromomethane	130000	U
75-01-4	-----Vinyl Chloride	130000	U
75-00-3	-----Chloroethane	130000	U
75-09-2	-----Methylene Chloride	46000	BDJ
67-64-1	-----Acetone	130000	U
75-15-0	-----Carbon Disulfide	64000	U
75-35-4	-----1,1-Dichloroethene	64000	U
75-34-3	-----1,1-Dichloroethane	64000	U
540-59-0	-----1,2-Dichloroethene (total)	64000	U
67-66-3	-----Chloroform	64000	U
107-06-2	-----1,2-Dichloroethane	64000	U
78-93-3	-----2-Butanone	130000	U
71-55-6	-----1,1,1-Trichloroethane	150000	D
56-23-5	-----Carbon Tetrachloride	64000	U
108-05-4	-----Vinyl Acetate	130000	U
75-27-4	-----Bromodichloromethane	64000	U
78-87-5	-----1,2-Dichloropropane	64000	U
10061-01-5	-----cis-1,3-Dichloropropene	64000	U
79-01-6	-----Trichloroethene	33000	DJ
124-48-1	-----Dibromochloromethane	64000	U
79-00-5	-----1,1,2-Trichloroethane	64000	U
71-43-2	-----Benzene	64000	U
10061-02-6	-----trans-1,3-Dichloropropene	64000	U
110-75-8	-----2-Chloroethylvinylether	130000	U
75-25-2	-----Bromoform	64000	U
108-10-1	-----4-Methyl-2-Pentanone	130000	U
591-78-6	-----2-Hexanone	130000	U
127-18-4	-----Tetrachloroethene	64000	U
79-34-5	-----1,1,2,2-Tetrachloroethane	64000	U
108-88-3	-----Toluene	20000	DJ
108-90-7	-----Chlorobenzene	64000	U
100-41-4	-----Ethylbenzene	370000	D
100-42-5	-----Styrene	64000	U
1330-20-7	-----Xylene (total)	2000000	D

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-11-2DL

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-01DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A3520

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 23 Date Analyzed: 10/15/91

Column (pack/cap) CAP Dilution Factor: 20

Number TICs found: 1 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.60	220000	J

L-070211-04  
 R-101591-VIA > A3515  
 MCLL  
 2 BWT

Reduced by: TSV Date: 10/15/91  
 Viewed by: AC Date: 10-16-91

Data File: >A3520  
 Page: 1

Enseco GC/MS  
 Target Compound Data Summary Sheet

Sample: BALSAM 10126-1 5ULX ✓  
 Misc : V1 CH16 5ULIS ID# UCC-SB-B-11-2<sup>DL</sup> 1.01G/10ML (101591)  
 Injected : 10/15/91 15:59 Units: UG/KG  
 Analyst: ALANA Run Factor: 9900.00 ✓  
 ID File: VOAID1 ✓ Surrogate vol: 10.000  
 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	16.30	DL 65.2*H	70 121
CS05 D8-Toluene	25.00	23.20	92.8	81 117
CS10 Bromofluorobenzene (BFB)	25.00	23.28	93.1 ✓	74 121

DL 101591

Target Compounds: VOAID1

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
254	3.591	35550 J, B	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
416	11.897	117800	C115 1,1,1-Trichloroethane
416	1.895	18760 Rick	C120 Carbon Tetrachloride
		BDL	C165 Benzene
536	2.573	25470 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

Data file: >A3520

PaS

ge: 2

Sample: BALSM 10126-1<sup>W</sup> 5ULX

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
724	1.579	BDL <u>15630</u> J	C205 4-Methyl-2-Pentanone C230 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
999	29.072	<u>287800</u>	C240 Ethylbenzene
1024	106.781	<del>1057000</del>	CXXX Xylene ( p )
1104	39.185	<del>387900</del> NR	CXXX Xylene ( o )
1104	1.229	<del>12170</del> SNG	C245 Styrene
		BDL	C225 1,1,2,2-Tetrachloroethan
		BDL	C335 Dichlorobenzene ( m )
		BDL	C340 Dichlorobenzene ( p )
		BDL	C350 Dichlorobenzene ( o )
1104	<del>39.352</del> 155.32	<del>389600</del> <u>1537608</u> →	C250 Xylene (Total) 101591

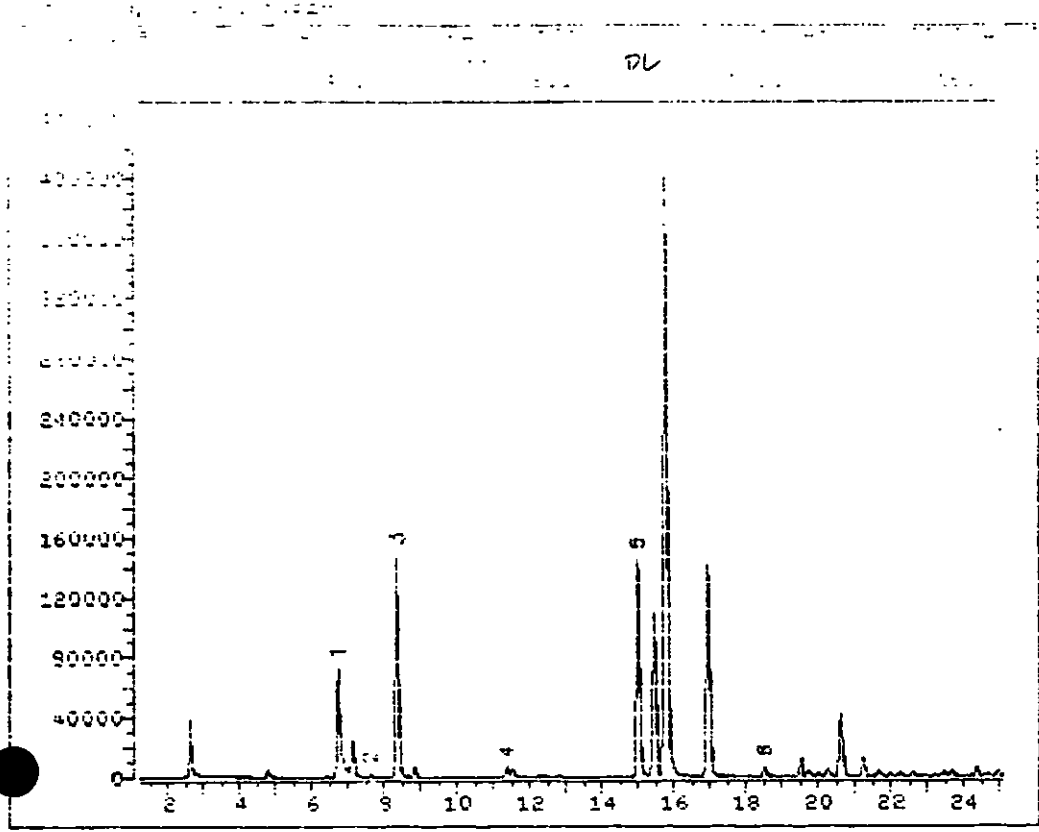
Compound	Found	Reported	Unit	Vol	Mass	Conc	Ref
10) C010 Bromodichloromethane	6.71	6.71	.01	121.0	2000	1.65	1.00
11) C012 Chloroethane	2.92	0.00	--	64.0	0	1.220	0.00
12) C020 Vinyl Chloride	3.06	0.00	--	62.0	0	1.220	0.00
40) C015 Bromomethane	3.37	0.00	--	74.0	0	1.280	0.00
50) C025 Chloroethane	3.47	0.00	--	64.0	0	1.280	0.00
60) C045 1,1-Dichloroethene	4.24	0.00	--	76.0	0	1.022	0.00
70) C035 Acetone	4.33	0.00	--	43.0	0	1.400	0.00
80) C040 Carbon Disulfide	4.49	0.00	--	76.0	0	4.094	0.00
90) C030 Methylene Chloride	4.76	4.77	.01	84.0	9290	1.8473	3.59
100) C055 Trans-1,2-Dichloroeth	5.07	0.00	--	96.0	0	1.7306	0.00
110) C055 cis-1,2-Dichloroeth	6.36	0.00	--	96.0	0	2.0337	0.00
120) C050 1,1-Dichloroethane	5.59	0.00	--	63.0	0	3.2472	0.00
130) C060 Chloroform	6.82	0.00	--	83.0	0	3.7480	0.00
140) C065 1,2-Dichloroethane	7.72	0.00	--	62.0	0	2.5307	0.00
150) C110 2-Butanone	6.39	0.00	--	72.0	0	1.2174	0.00
160) C015 04-1,2-Dichloroetha	7.60	7.60	.00	69.0	4302	1.3850	1.00
170) C110 1,4-Difluorobenzene	8.35	8.35	.02	114.0	355298	1.0000	50.00
180) C125 Vinyl Acetate	5.63	0.00	--	43.0	0	1.6397	0.00
190) C115 1,1,1-Trichloroetha	7.07	7.07	.01	97.0	45549	1.5388	11.98
200) C120 Carbon tetrachlorid	7.35	7.07	.26	117.0	6889	1.5110	1.90
210) C165 Benzene	7.67	7.67	.00	78.0	1681	1.0939	1.22
220) C150 Trichloroethene	8.80	8.80	.00	130.0	8264	1.4515	2.57
230) C140 1,2-Dichloropropane	9.23	0.00	--	63.0	0	1.4033	0.00
240) C130 Bromodichloromethan	9.79	0.00	--	83.0	0	1.5724	0.00
250) C175 2-Chloroethylvinyle	10.46	0.00	--	63.0	0	1.2325	0.00
260) C143 Cis-1,3-Dichloropro	10.75	0.00	--	75.0	0	1.6111	0.00
270) C172 Trans-1,3-Dichlorop	12.05	0.00	--	75.0	0	1.5393	0.00
280) C160 1,1,2-Trichloroetha	12.50	0.00	--	97.0	0	1.3539	0.00
290) C155 Dibromochloromethan	13.45	0.00	--	129.0	0	1.5679	0.00
300) C180 Bromoform	17.49	0.00	--	173.0	0	1.4748	0.00
310) C120 05-Chlorobenzene	15.03	14.97	.06	117.0	293859	1.0000	50.00
320) C005 08-Toluene	11.33	11.32	.01	98.0	17658	1.2949	2.32
330) C205 4-Methyl-2-Pentanon	11.11	0.00	--	43.0	0	1.4262	0.00
340) C230 Toluene	11.47	11.49	.02	92.0	7707	1.8303	1.58
350) C210 2-Hexanone	13.18	0.00	--	43.0	0	1.3083	0.00
360) C220 Tetrachloroethene	12.78	12.77	.01	164.0	1838	1.5137	1.61
370) C235 Chlorobenzene	15.06	0.00	--	112.0	0	1.1099	0.00
380) C240 Ethylbenzene	15.41	15.42	.00	106.0	93428	1.5468	29.07
38)D C240 Ethylbenzene	15.41	15.77	.36	106.0	413659	1.5468	128.72
39)D CXXX Xylene ( p )	15.78	15.42	.37	106.0	93428	1.6591	24.12
39)D CXXX Xylene ( p )	15.78	15.77	.01	106.0	413659	1.6591	106.78
40) CXXX Xylene ( o )	16.91	16.92	.01	106.0	143493	1.6231	39.19
41) C245 Styrene	16.98	16.92	.07	104.0	7892	1.0930	1.23
42) C225 1,1,2,2-Tetrachloro	19.13	0.00	--	83.0	0	1.6769	0.00
43) C010 Bromofluorobenzene	18.52	18.50	.02	95.0	8535	1.6238	2.33
44) C335 Dichlorobenzene ( m	22.04	21.99	.05	146.0	1125	1.0034	1.19
45)D C340 Dichlorobenzene ( p	22.35	21.99	.36	146.0	1125	1.0105	1.00
45) C340 Dichlorobenzene ( p	22.35	22.30	.05	146.0	1649	1.0105	1.28

000056



Internal Standard	Sample Area	TIC Area	%
1.01 Ethanol	1100	1100	100%
1.02 1,4-Dioxane	1100	1100	100%
1.03 1,4-Dioxane	1100	1100	100%

% = (Sample Area / TIC Area) \* 100  
 • Area outside limits



Data File: >A3520:01

Quant Output File: A3520:01

Name: SALEM 10126-10<sup>DL</sup>5ULX

Misc: 01 CH16 5UL15 ID# UCC-SB-B-11-2 1.01G/10ML (101591)

Id File: UQAID1:\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:01:ERCO/ENSECO

Last Calibration: 911015 11:54

Operator ID: ALANA

Quant Time: 911015 16:26

Injected at: 911015 15:59



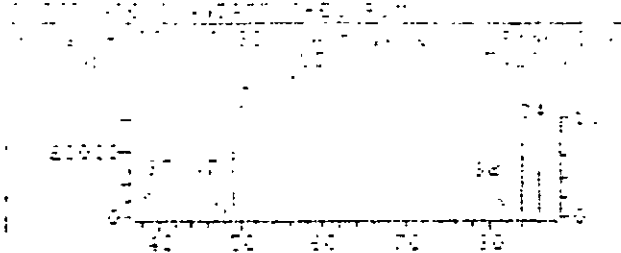
Method: GC/MS  
 Name: C:\MSDCHEM\DATA\101591.D  
 Date: 01/15/91

File: 101591.D  
 Title: HSE  
 Lab: California

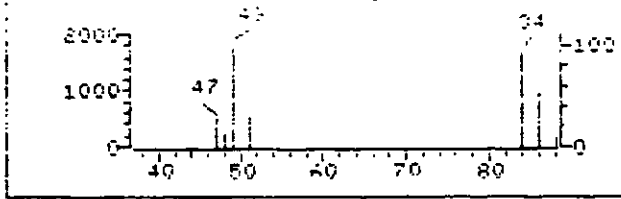
	Compound	RT	Area	Conc	Units	Q
1)	*C101 Bromochloromethane	6.70	128.0	20028	50.00	UG/L 32
9)	C090 Methylene Chloride	4.77	84.0	9290	3.59	UG/L 67
16)	C015 04-1,2-Dichloroethane	7.60	65.0	4302	1.63	UG/L 90
17)	*C110 1,4-Difluorobenzene	8.33	114.0	355698	50.00	UG/L 100
19)	C115 1,1,1-Trichloroethane	7.09	92.0	46599	11.90	UG/L 95
20)	C120 Carbon tetrachloride	7.09	117.0	6889	1.90	UG/L 90
21)	C165 Benzene	7.67	78.0	1681	.22	UG/L 100
22)	C150 Trichloroethene	8.80	130.0	8264	2.57	UG/L 94
31)	*C120 05-Chlorobenzene	14.97	117.0	293859	50.00	UG/L 100
32)	C005 08-Toluene	11.32	98.0	17658	2.32	UG/L 85
33)	C230 Toluene	11.49	92.0	7707	1.58	UG/L 45
36)	C220 Tetrachloroethene	12.77	164.0	1838	.61	UG/L 85
38)	C240 Ethylbenzene	19.42	106.0	93428	29.07	UG/L 98
39)	CXXX Xylene (p)	15.77	106.0	413657	106.78	UG/L 75
40)	CXXX Xylene (o)	16.92	106.0	143493	39.19	UG/L 94
41)	C245 Styrene	16.92	104.0	7892	1.23	UG/L 100
43)	C010 Bromofluorobenzene (BFB)	18.50	95.0	8535	2.33	UG/L 86
44)	C335 Dichlorobenzene (m)	21.79	146.0	1125	.19	UG/L 100
45)	C340 Dichlorobenzene (p)	22.30	146.0	1649	.28	UG/L 100
46)	C350 Dichlorobenzene (o)	23.53	146.0	760	.13	UG/L 100
47)	C250 Xylene (Total)	15.77	106.0	563955M	155.32	UG/L 97

\* Compound is ISID

DJ  
 101591

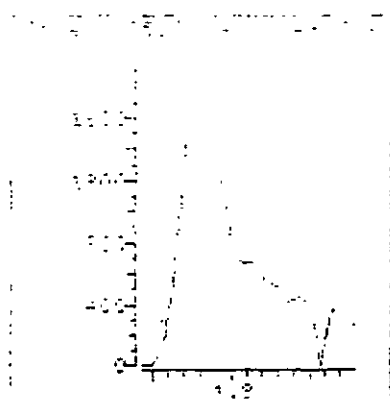
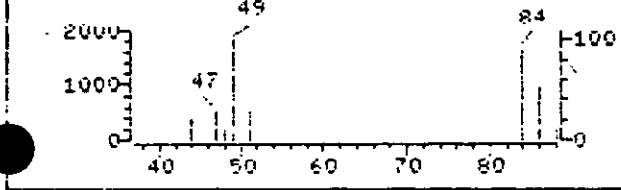


FILE >A3520 BALSM 10126-1 SUL Scan 254  
Bpk Ab 1818 4.77 min.

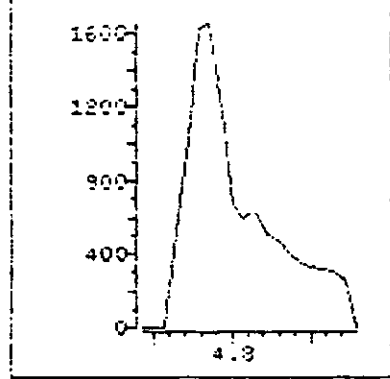


SAMPLE SPECTRUM (UNALTERED)

File >A3520 BALSM 10126-1 SUL Scan 254  
Bpk Ab 1818 4.77 min.

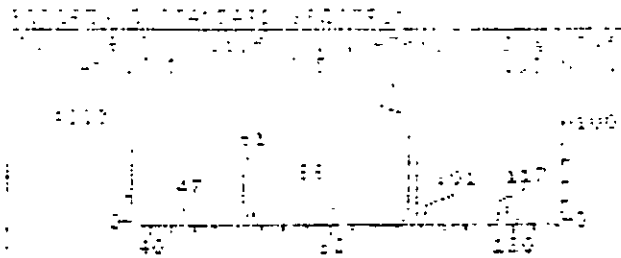


File >A3520 33.7-64.7 min



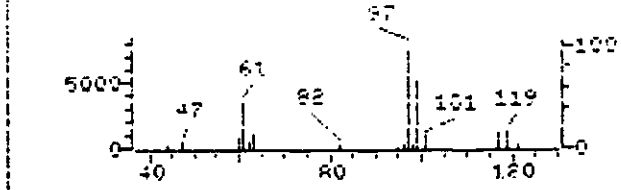
Data File: >A3520::01                      Quant Output File: >A3520::01  
 Name: BALSM 10126-1<sup>DL</sup>SULX  
 Misc: V1 CH16 SULIS 10# UCC-SB-B-11-2<sup>DL</sup> 1.016/10ML (101591)  
 Quant Time: 911015 16:26                      Quant ID File: VQAID1::33  
 Injected at: 911015 15:59                      Last Calibration: 911015 11:54

Compound No: 9  
 Compound Name: C030 Methylene Chloride  
 Scan Number: 254  
 Retention Time: 4.77 min.  
 Quant Ion: 84.0  
 Area: 9290  
 Concentration: 3.59 UG/L ✓  
 q-value: 67



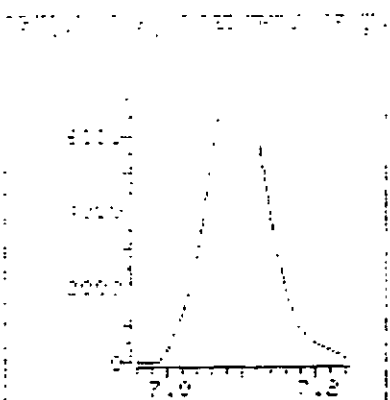
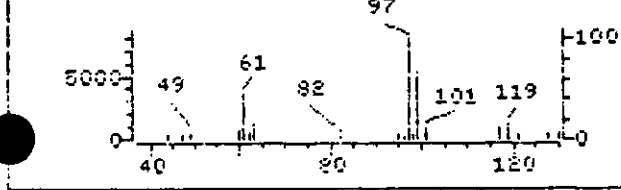
REFERENCE SPECTRUM BACKGROUND SUBTRACTED

File >A3520 BALS 10126-1 5UL Scan 416  
 Spk Ab 7914 SNR 0V 7.09 min.

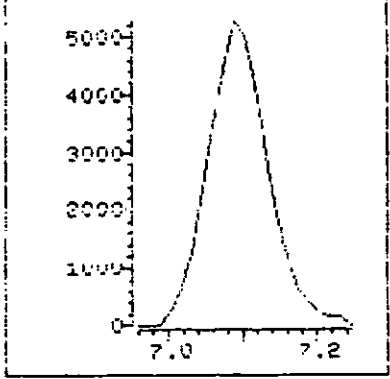


SAMPLE SPECTRUM (UNALTERED)

File >A3520 BALS 10126-1 5UL Scan 416  
 Spk Ab 7914 SNR 0V 7.09 min.



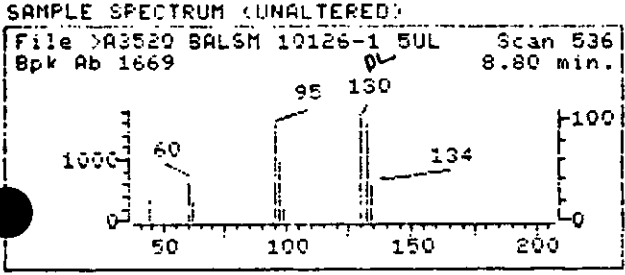
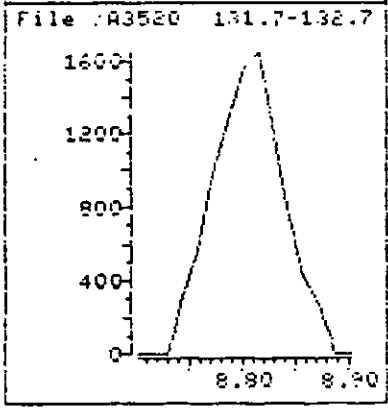
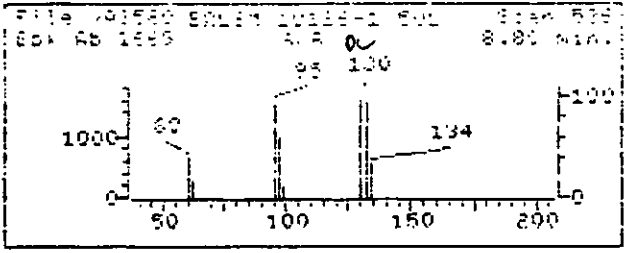
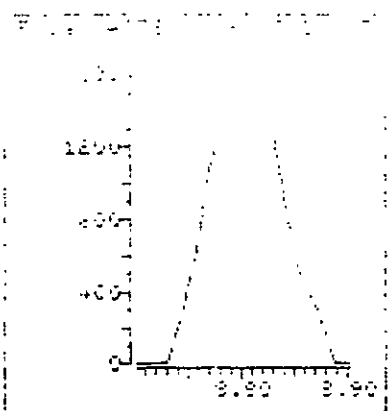
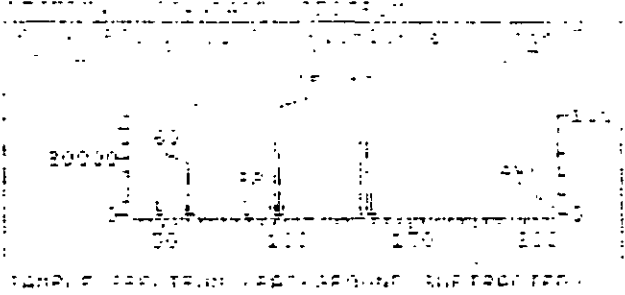
File >A3520 98.7-99.7 am



Data File: >A3520::01  
 Name: BALS 10126-1 5ULX  
 Misc: V1 CH16 5ULIS ID# UCC-SB-8-11-2 1.01G/10ML (101591)  
 Quant time: 911015 16:26  
 Injected at: 911015 15:59

Quant Output File: >A3520::01  
 Quant ID File: UVAID1::\$\$  
 Last Calibration: 911015 11:54

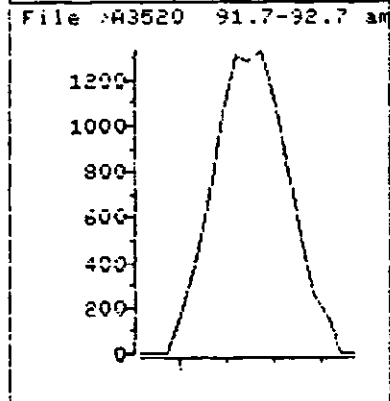
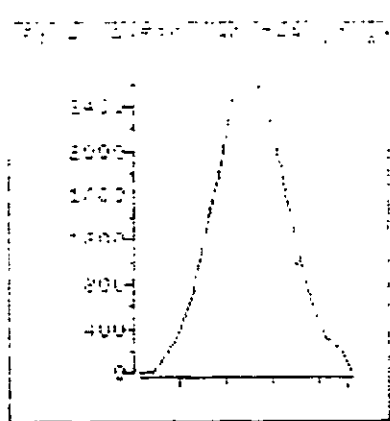
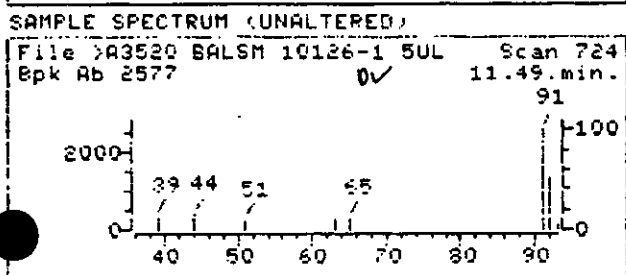
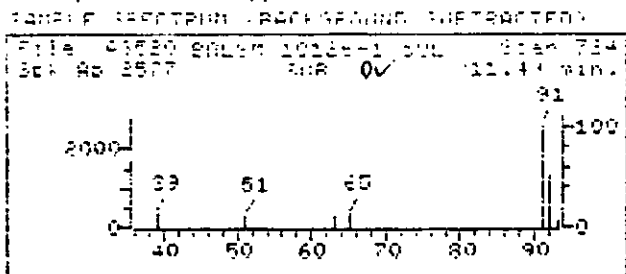
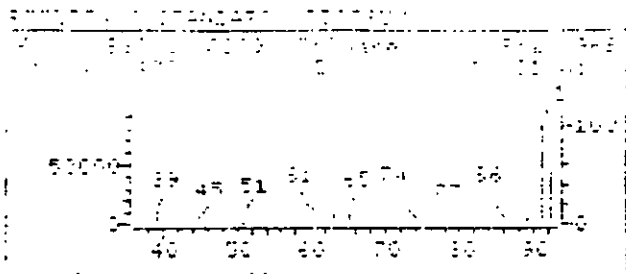
Compound No: 19  
 Compound Name: C115 1,1,1-Trichloroethane  
 Scan Number: 416  
 Retention Time: 7.09 min.  
 Quant Ion: 97.0  
 Area: 45599  
 Concentration: 11.90 UG/L  
 q-value: 95



Data File: >A3520::D1  
Name: BALSM 10126-1 5ULX  
Misc: VI CH16 5ULIS 10# UCC-SB-B-11-2 1.016/10ML (101591)  
Quant Time: 911015 16:26  
Injected at: 911015 15:59

Quant Output File: >A3520::U1  
Quant ID File: UQAID1::\$\$  
Last Calibration: 911015 11:54

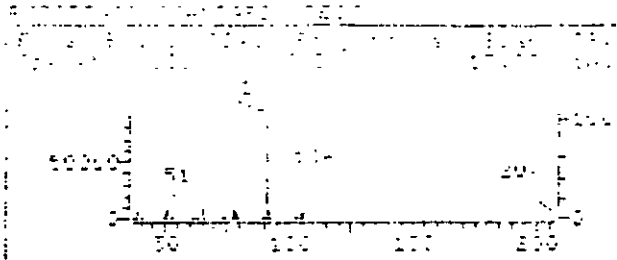
Compound No: 22  
Compound Name: C150 Trichloroethene  
Scan Number: 536  
Retention Time: 8.80 min.  
Quant Ion: 130.0  
Area: 8264  
Concentration: 2.57 UG/L  
q-value: 94



Data File: >A3520::D1  
 Name: BALSM 10126-10<sup>u</sup>ULX  
 Misc: V1 CH16 5ULIS ID# UCC-SB-B-11-2  
 Quant Time: 911015 16:26  
 Injected at: 911015 15:59

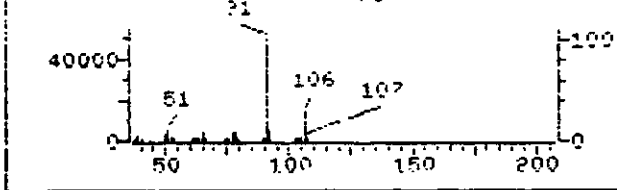
Quant Output File: >A3520::UF  
 Quant ID File: UUAID1::\$\$  
 Last Calibration: 911015 11:54

Compound No: 34  
 Compound Name: C230 Toluene  
 Scan Number: 724  
 Retention Time: 11.49 min.  
 Quant Ion: 92.0  
 Area: 7707  
 Concentration: 1.58 UG/L  
 q-value: 95



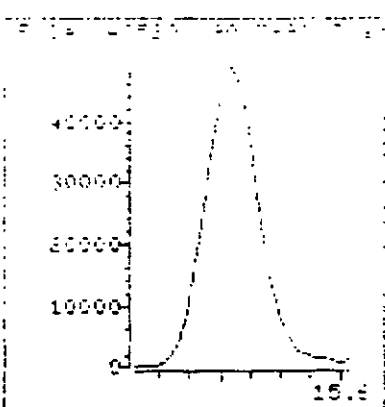
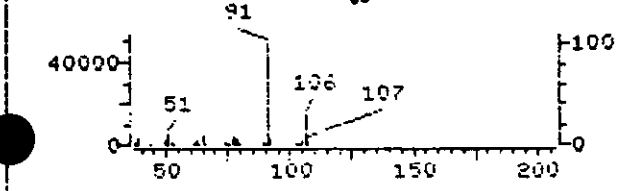
SAMPLE SPECTRUM (UNALTERED)

File >A3520 BALSM 10126-1 SUL Scan 999  
Bpk Ab 49080 15.42 min.

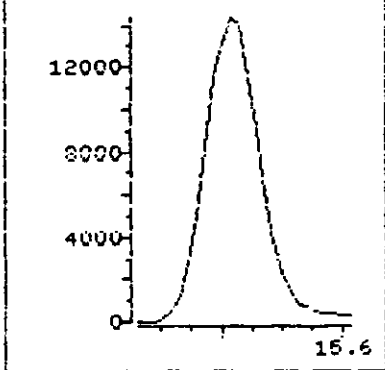


SAMPLE SPECTRUM (UNALTERED)

File >A3520 BALSM 10126-1 SUL Scan 999  
Bpk Ab 49080 15.42 min.



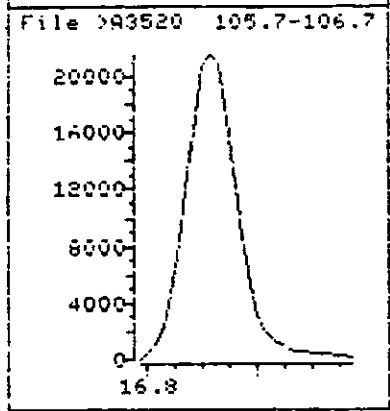
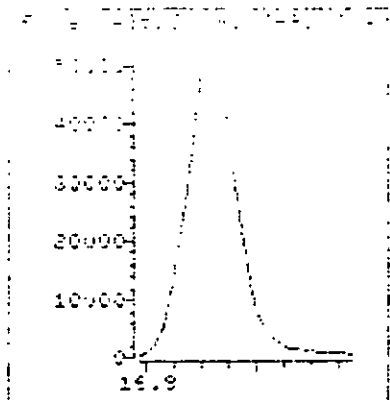
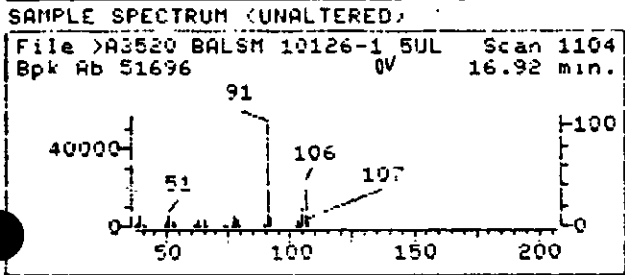
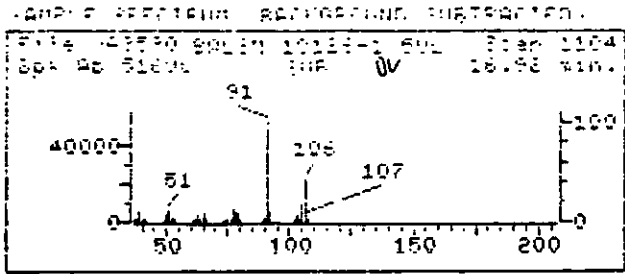
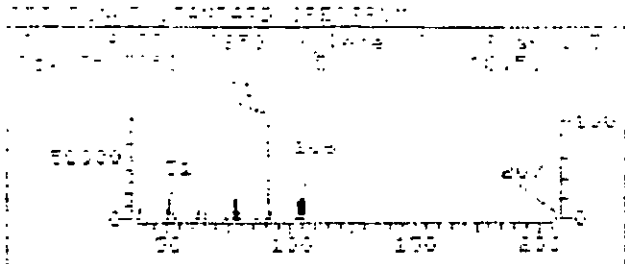
File >A3520 105.7-106.7



Data File: >A3520::D1  
Name: BALSM 10126-1<sup>06</sup>SULX  
Misc: V1 CH16 SULIS 10# UCC-SB-B-11-2  
Quant Time: 911015 16:26  
Injected at: 911015 15:59

Quant Output File: >A3520::U1  
Quant ID File: UDAID1::\$\$  
Last Calibration: 911015 11:54

Compound No: 38  
Compound Name: C240 Ethylbenzene  
Scan Number: 999  
Retention Time: 15.42 min.  
Quant Ion: 106.0  
Area: 93428  
Concentration: 29.07 UG/L  
q-value: 98



Data File: >A3520::D1                      Quant Output File: >A3520::Q1  
 Name: BALSM 10126-1<sup>DL</sup>SULX  
 Misc: V1 CH16 5ULIS ID# UCC-SB-B-11-2 1.01G/10ML (101591)  
 Quant Time: 911015 16:26                      Quant ID File: QUAID1::\$\$  
 Injected at: 911015 15:59                      Last Calibration: 911015 11:54

Compound No: 47  
 Compound Name: C250 Xylene (Total)  
 Scan Number: 1104  
 Retention Time: 16.92 min.  
 Quant Ion: 106.0  
 Area: 142885  
 Concentration:  
 q-value: 97

*39.35 UG/L*  
*155.32 µg/L*  
*ALJ*  
*10/15/91*

Sample: RU Date: 6/15/91

Sample: SALAM 10102-10 Fun Factor: Relig.  
Conditions: M1 CH10 bulis 00# 001-00-d-11-2 Analyst: ALAMP  
DL

# Scan	Retention Time (min)	Concentration in Sample	CHS #	Compound
1	1362.	129000.	<del>819-24-7</del>	<del>3-Pentanone, 2,2,4,4-tetramethyl</del>

Unknown

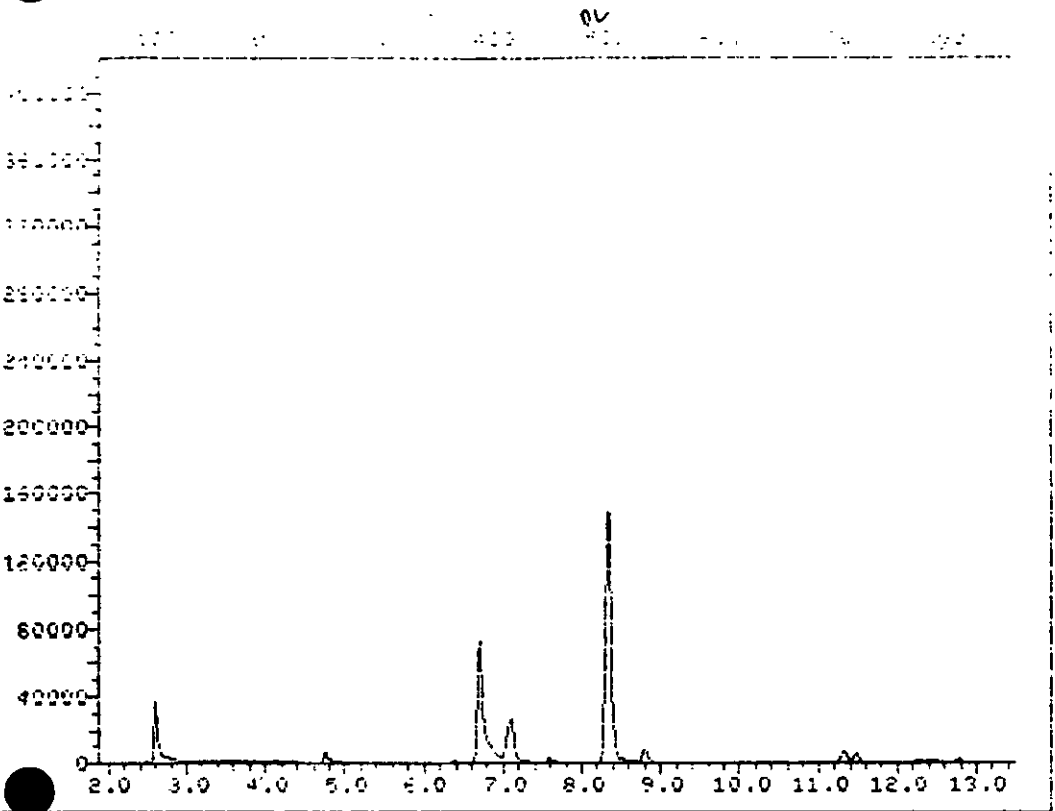


at 10.0 ...

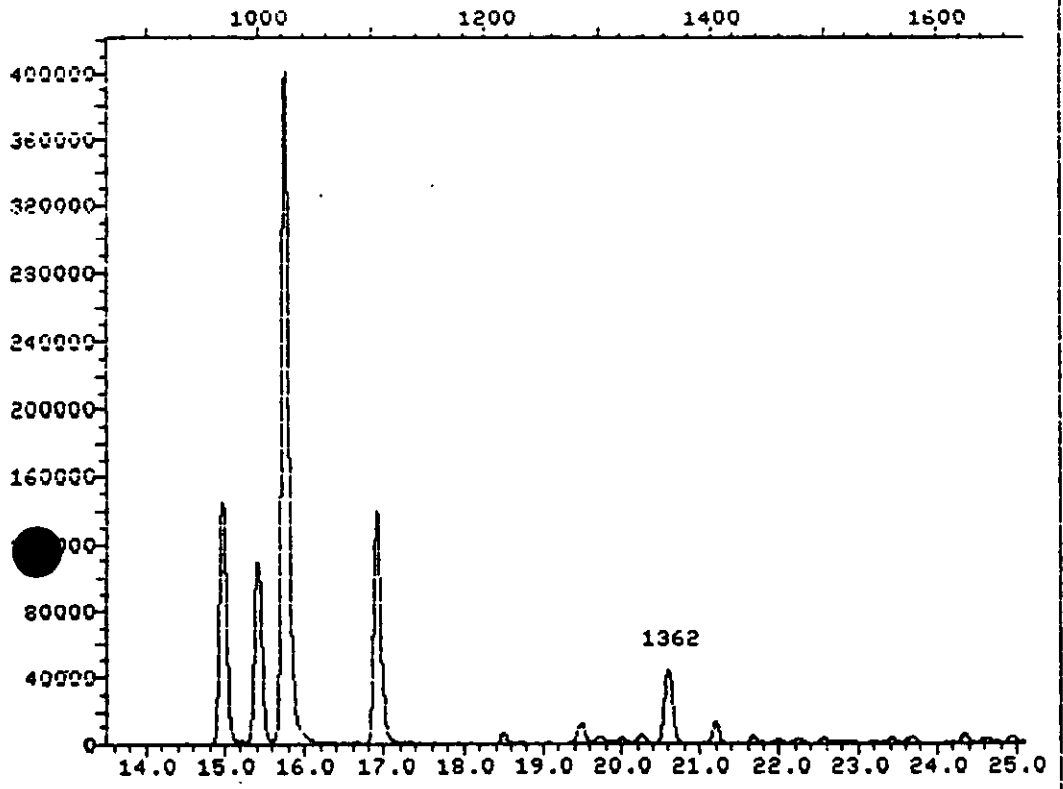
... ..

Prob. Cont.	Int.	Area	Height	Long. As Analyzed
1.00	10.00	1.00	10.00	10.00

B-B 1-20L



File >A3520 35.0-360.0 amu. BALSAM 10126-1 SULX V1 CH16 5ULTS ID# UCC-SB-0-11-2 DL  
TIC DU



000059

Minimum separation of TIC and quant ion peaks: 5.  
 Minimum TIC peak area as % of est. TIC area: 10.  
 Maximum TIC peak area as % of est. TIC area: 200.

#	Name	Concentration	Unit	Flag	
Quant	Area	Ratio	RIC Area	% Est. TIC	
1	C101 Bromochloromet	50.000	UG/L	Ok	
589.	20028.	2.281	389.	429830.	84.307
2	C110 1,4-Difluorobe	50.000	UG/L	Ok	
503.	356698.	2.413	503.	278691.	90.736
3	C120 05-Chlorobenze	50.000	UG/L	Ok	
968.	293859.	3.463	968.	853490.	83.859

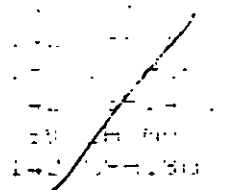
Deleting peaks from INT file: UDIR88  
 Minimum area: 10 % of area of closest int. Std.  
 Number of peaks: 8  
 Number of peaks remaining: 8

Deleting target compounds from INT file: UDIR88  
 Minimum separation of TIC and target: 5.  
 Maximum fraction of RIC peak from targets: 40. %  
 Number of peaks: 8  
 Number of peaks remaining: 1

Deleting all but largest peaks from INT file: UDIR88  
 Maximum number of peaks to keep: 15  
 Number of peaks: 1  
 Maximum number of peaks > number of peaks.

*UNKNOWN  
R<sub>1</sub>  
07571*

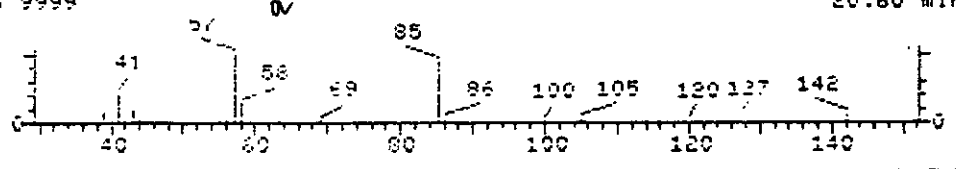
1. 4-Pentanone, 2,2,4,4-tetramethyl- (8C19CI)  
 2. 4-Heptanone, 2,6-dimethyl- (8C19CI)



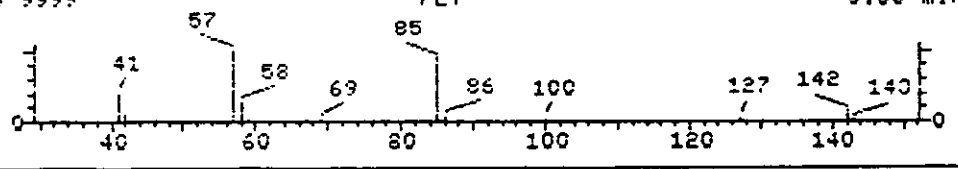
Sample File: 043520      Spectrum #: 1362  
 Search Speed: 1      Filtering Option: 3      No. of ion ranges searched: 4

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	FILT	%	CON	LI	P_IV
1.	88*	815247	"BIGDB	20	23	2	0	85	5	65	59

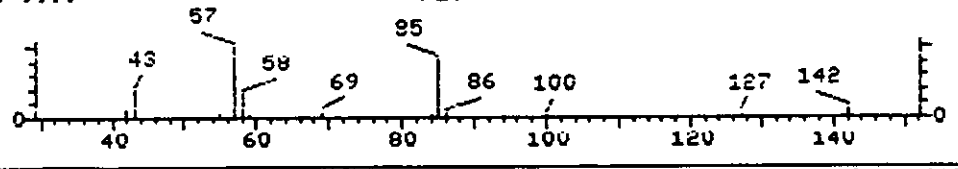
File >03520 BALSM 10125-1 5ULX V1 CH16 5ULIS ID# UCC-SE-B-11 Scan 1362  
 Spk Ab 9999



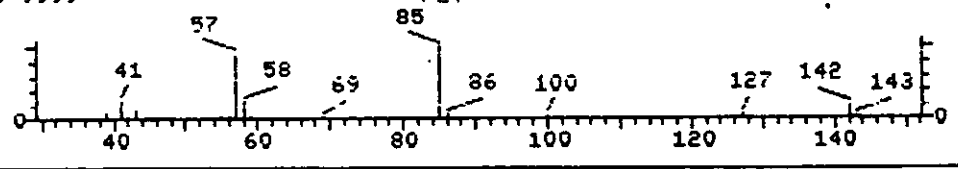
File "BIGDB 3-Pentanone, 2,2,4,4-tetramethyl- (8C19CI) Scan 6171  
 Spk Ab 9999 FLT 0.00 min.



File "BIGDB 4-Heptanone, 2,6-dimethyl- (8C19CI) Scan 6169  
 Spk Ab 9999 FLT 0.00 min.



File "BIGDB Pyrrolidine, 1-(1-isobutyl-3-methyl-1-butenyl)- ( Scan 6173  
 Spk Ab 9999 FLT 0.00 min.



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-A-09-4

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. 17 Date Analyzed: 10/08/91

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	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	7	
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	5	BJ
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	2	J
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	6	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	17	
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	4	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	4	J

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-A-09-4

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. 17 Date Analyzed: 10/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C6H14 ISOMER	5.85	36	J

8240-SL

L-090291-CP  
R-100891-VGA

NC

7F2798

CS<sub>2</sub>  
23ant.

DLV  
RE

Label: 100891

Date: 10-16-91

Sample: 100891-3 4.9g ✓  
Inj: 100891-3 10-16-91 18:50 ✓  
Injected: 10-08-91 18:50  
Analyst: LID  
10 Filter: HAMID6 ✓  
Quant List threshold: 1.00

Units: 05 MG  
Gain Factor: 1.014 ✓  
Surrogate Multi: 1.048

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Amount (ug) Measured	% Recovery Measured	OC limits
DS15 D4-1,2-dichloroethane	.2500	.2494	99.8	70 121
DS05 D8-Toluene	.2500	.2560	102 ✓	84 117
DS10 Bromofluorobenzene	.2500	.2355	94.2	59 121

Target Compounds: HAMID6

Scan #	Concentration UG/L	Quant List	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
234	3.953		4.0 J, B	C040 Carbon Disulfide ✓
264	5.586		5.6 J, B	C030 Methylene Chloride ✓
			BDL	C053 Trans-1,2-dichloroethene ✓
427	1.410		1.4 J	C055 Cis-1,2-dichloroethene ✓
			BDL	C050 1,1-Dichloroethane
			BDL	C060 Chloroform
			BDL	C065 1,2-Dichloroethane
429	2.640		2.7 J, B	C110 2-Butanone ✓
331	8.649		8.7 J	C125 Vinyl Acetate
503	4.684		4.7 J	C115 1,1,1-Trichloroethane ✓
			BDL	C120 Carbon Tetrachloride
			BDL	C165 Benzene
74	13.578		14	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

Quant List Sample

Peak #	Area	Sample	Compound
		BDL	C160 1,1,2-Trichloroethane
		BDL	C166 Dibromochloromethane
		BDL	C160 Bromoform
939	1.158	1.1 J	C205 4-Methyl-2-pentanone
		BDL	C270 Toluene ✓
962	3.644	3.7 J	C210 2-Hexanone
		BDL	C220 Tetrachloroethene ✓
		BDL	C235 Chlorobenzene
1323	2.466	2.5 NR	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)
1327	3.29 <del>2.614</del>	3.32 2.6 →	C350 Dichlorobenzene (o)
			C250 Xylenes (total) ✓

RU  
10081



Data File: #1004106  
 Date: 01/21/00  
 File: #41.Det.DT

Compound		Pred	Found	Dif	Ion	Area	RF	Cont.
1) *C101	Bromochloromethane	7.23	7.40	.17	129.0	79993	1.0000	50.10
2) C012	Dichlorodifluorometh	2.80	0.00	--	95.0	0	1.0000	0.00
3) C010	Chloromethane	2.73	0.00	--	50.0	0	1.1000	0.00
4) C020	Vinyl Chloride	2.88	0.00	--	62.0	0	1.0000	0.00
5) C015	Bromomethane	3.29	0.00	--	94.0	0	1.1000	0.00
6) C025	Chloroethane	3.41	0.00	--	64.0	0	.6017	0.00
7) C028	Trichlorofluorometha	3.74	0.00	--	101.0	0	1.9343	0.00
8) C045	1,1-Dichloroethene	4.39	0.00	--	96.0	0	1.0123	0.00
9) C038	1,1,2-Trichloro-1,2,	4.39	4.40	.01	101.0	1088	2.3058	.30
10) C035	Acetone	4.50	0.00	--	43.0	0	.4339	0.00
11) C040	Carbon Disulfide	4.70	4.73	.03	76.0	18896	2.9923	3.95
12) C030	Methylene Chloride	5.06	5.08	.02	84.0	13003	1.4571	5.59
13) C053	Trans-1,2-dichloroet	5.43	0.00	--	96.0	0	1.4870	0.00
14) C055	Cis-1,2-dichloroethe	6.98	6.98	.00	96.0	3832	1.7015	1.41
15) C050	1,1-Dichloroethane	6.06	0.00	--	63.0	0	2.8582	0.00
16) C060	Chloroform	7.54	0.00	--	83.0	0	3.1850	0.00
17) C065	1,2-Dichloroethane	8.59	0.00	--	62.0	0	2.1457	0.00
18) C110	2-Butanone	7.04	7.00	.04	72.0	1329	.3151	0.64
19) C515	O4-1,2-dichloroethan	8.45	8.44	.00	65.0	136695	1.7156	49.97
20) *C119	1,4-Difluorobenzene	9.12	9.31	.19	114.0	384349	1.0000	50.00
21) C125	Vinyl Acetate	6.12	5.86	.26	43.0	61878	.9307	8.55
22) C115	1,1,1-Trichloroethan	7.85	7.86	.01	97.0	19192	.5330	4.68
23) C120	Carbon Tetrachloride	8.14	0.00	--	117.0	0	.4382	0.00
24) C165	Benzene	8.53	0.00	--	78.0	0	.9528	0.00
25) C150	Trichloroethene	9.84	9.85	.01	130.0	40345	.3865	13.58
26) C140	1,2-Dichloropropane	10.32	0.00	--	63.0	0	.4025	0.00
27) C130	Bromodichloromethane	10.95	0.00	--	83.0	0	.6435	0.00
28) C175	2-Chloroethylvinylet	11.70	0.00	--	63.0	0	.2689	0.00
29) C143	Cis-1,3-Dichloroprop	12.02	0.00	--	75.0	0	.5928	0.00
30) C172	Trans-1,3-dichloropr	13.46	0.00	--	75.0	0	.5155	0.00
31) C160	1,1,2-Trichloroethan	13.92	0.00	--	97.0	0	.3815	0.00
32) C155	Dibromochloromethane	14.98	0.00	--	129.0	0	.5619	0.00
33) C180	Bromoform	19.26	0.00	--	173.0	0	.4211	0.00
34) *C120	O5-Chlorobenzene	16.30	16.57	.27	117.0	287475	1.0000	50.00
35) C505	O8-Toluene	12.62	12.65	.02	98.0	369405	1.2547	51.21
35) D C505	O8-Toluene	12.62	13.12	.50	98.0	1094	1.2547	.15
36) C205	4-Methyl-2-pentanone	12.40	0.00	--	43.0	0	.9161	0.00
37) C230	Toluene	12.80	12.82	.02	92.0	5528	.8255	1.16
38) C210	2-Hexanone	14.65	0.00	--	43.0	0	.6983	0.00
39) C220	Tetrachloroethene	14.22	14.25	.03	164.0	8934	.4264	3.64
40) C235	Chlorobenzene	16.65	0.00	--	112.0	0	1.0439	0.00
41) C240	Ethylbenzene	17.04	17.01	.03	106.0	1024	.4965	.36
41) D C240	Ethylbenzene	17.04	17.41	.36	106.0	9328	.4965	3.27
42) D CXXX	Xylenes (p)	17.42	17.01	.41	106.0	1024	.6578	.27
42) CXXX	Xylenes (p)	17.42	17.41	.02	106.0	9328	.6578	2.47
43) CXXX	Xylenes (o)	18.62	18.61	.01	106.0	1742	.6174	.49
44) C245	Styrene	18.68	0.00	--	104.0	0	1.0869	0.00
45) C225	1,1,2,2-Tetrachloroe	20.90	0.00	--	83.0	0	1.0000	0.00
46) C510	Bromofluorobenzene	20.28	20.26	.02	95.0	204532	.7553	47.10
47) C335	Dichlorobenzene (m)	23.91	0.00	--	146.0	0	.9166	0.00

000076

1970 1971 1972 1973 1974 1975 1976 1977 1978  
18.67 17.41 17.01 18.10 9700 18111 17.1

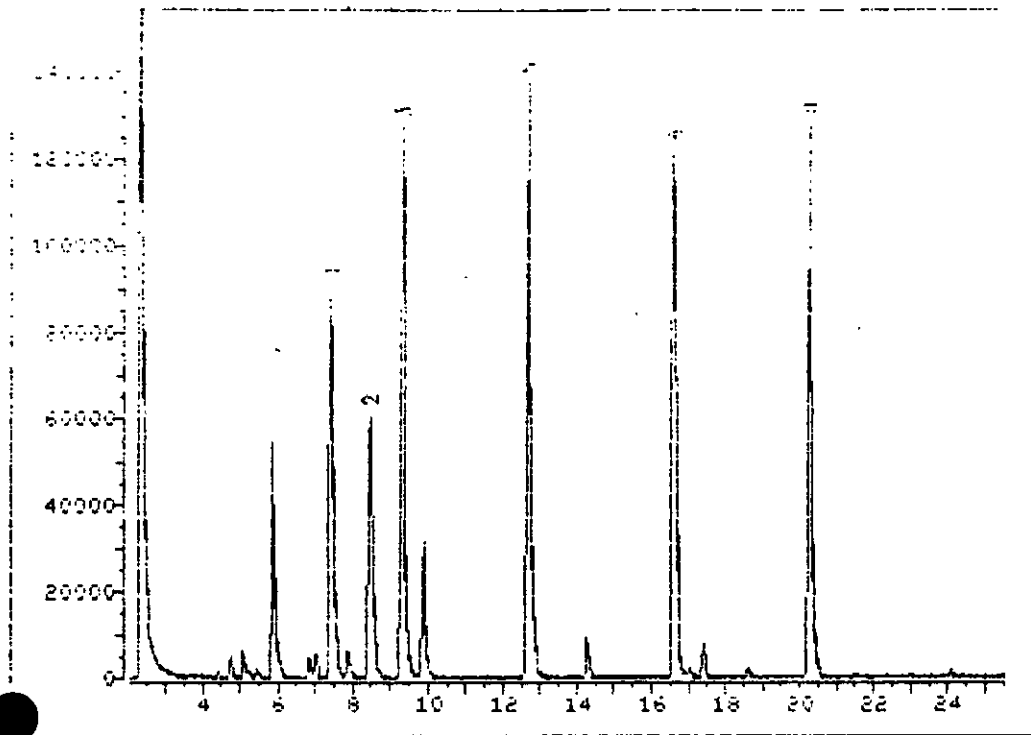
• - Computed as an Internal Standard  
- Standard Method

Internal Standard Report

Sample: P-1000 (Sample collected): 10/10/10 (Date of Collection): 10/10/10

Internal Standard	Sample Area	Std Area	%
1101 Bromochloromethane	20893	91342	87.3
110 1,4-Difluorobenzene	784740	211217	81.8
1120 2,5-Dichlorobenzene	287275	378266	85.7

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



Data File: ^F2804::D6

Quant Output File: ^F2804::D7

Name: BALSAM 10126-3 4.96G

Instrument ID: U6

Misc: U6, CH14, 5UL IS/S, ID# UCC-SB-A-09-4

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: LIZ

Quant Time : 911008 19:19

Injected at: 911008 18:52

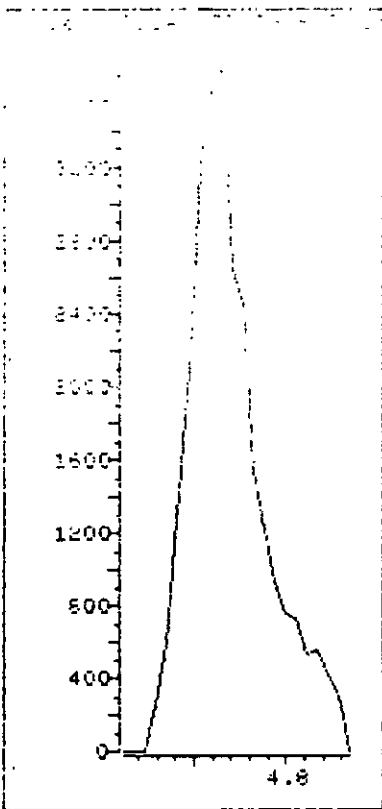
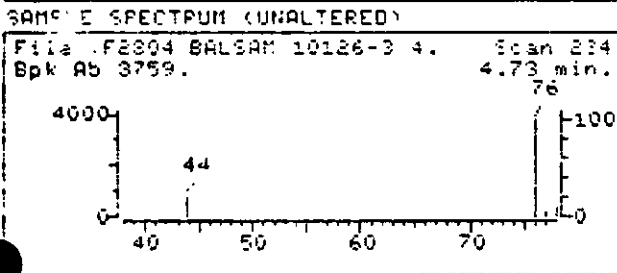
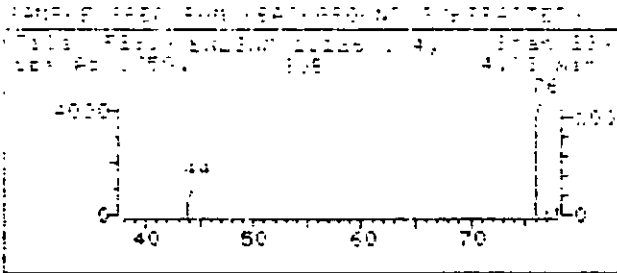
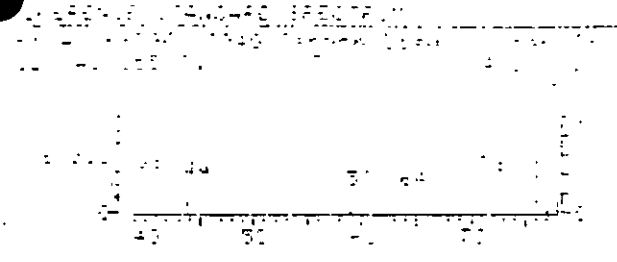
000079

Method: MS, CH14, P01 18 5, 30# UCC-68-H-19-4  
 Data File: HAN10001.MT  
 Title: PSL UCLAP1159: Chem. Form: P01.2, US HTS: EP01 ENBE U  
 Last Calibration: 910408 11:20 Last Deal Time: 9110 8:15

Compound	R.T.	Q Ion	Area	Conc	Units	g
1) *C101 Bromochloromethane	7.40	128.0	79883	50.00	UG/L	89
9) C038 1,1,2-Trichloro-1,2,2-tri	4.40	101.0	1088	.295	UG/L	98
11) C040 Carbon Disulfide	4.73	76.0	18896	3.95	UG/L	100
12) C030 Methylene Chloride	5.08	84.0	13003	5.59	UG/L	69
14) C055 Cis-1,2-dichloroethene	6.98	96.0	3832	1.41	UG/L	93
18) C110 2-Butanone	7.00	72.0	1329	2.64	UG/L	85
19) C515 D4-1,2-dichloroethane	8.44	66.0	136695	49.87	UG/L	89
20) *C110 1,4-Difluorobenzene	9.31	114.0	384349	50.00	UG/L	100
21) C125 Vinyl Acetate	5.86	43.0	61878	8.65	UG/L	44
22) C115 1,1,1-Trichloroethane	7.86	97.0	19192	4.68	UG/L	89
25) C150 Trichloroethene	9.85	130.0	40345	13.58	UG/L	99
34) *C120 D5-Chlorobenzene	16.57	117.0	287475	50.00	UG/L	100
35) C505 D8-Toluene	12.65	98.0	369405	51.21	UG/L	99
37) C230 Toluene	12.82	92.0	5528	1.16	UG/L	97
39) C220 Tetrachloroethene	14.25	164.0	8934	3.64	UG/L	81
41) C240 Ethylbenzene	17.01	106.0	1024	.359	UG/L	97
42) CXXX Xylenes (p)	17.41	106.0	9328	2.47	UG/L	98
43) CXXX Xylenes (o)	18.61	106.0	1742	.491	UG/L	91
46) C510 Bromofluorobenzene	20.26	95.0	204532	47.10	UG/L	71
50) C250 Xylenes (total)	17.41	106.0	<del>9329</del>	<del>2.64</del>	UG/L	93

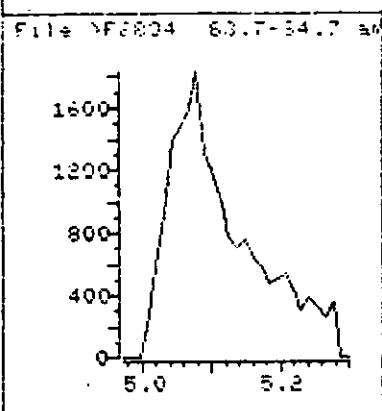
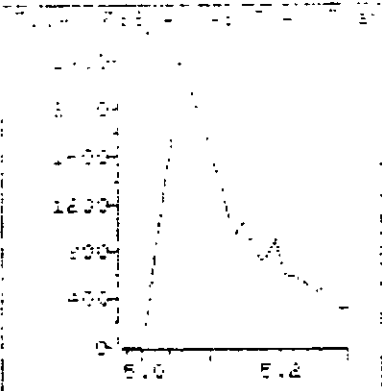
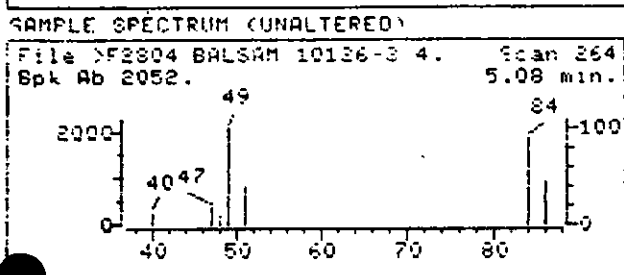
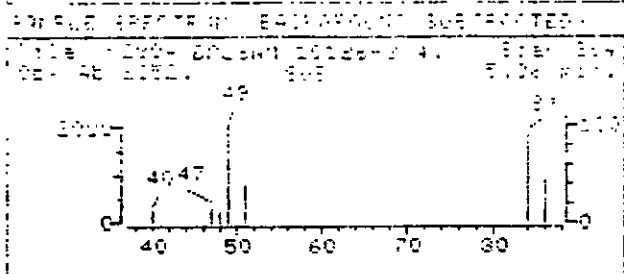
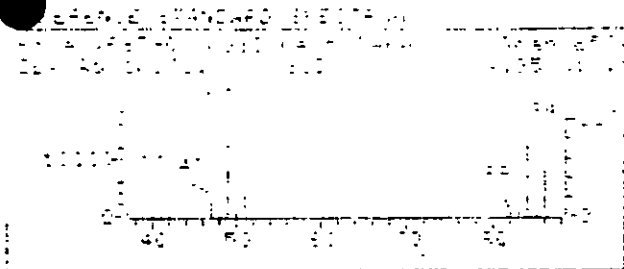
11756M 3.29 DRU  
 100891

\* Compound is ISTD



Data File: >F2804::D6                      Quant Output File: ^F2804::D7  
 Name: BALSAM 10126-3 4.96S                  Instrument ID: U6  
 Misc: U6, CH14, SUL IS/S, ID# UCC-SB-A-09-4  
 Quant Time: 911008 19:19                    Quant ID File: HAMID6::MT  
 Injected at: 911008 18:52                   Last Calibration: 910408 11:20  
 Last Qcal Time: 911008 08:09

Compound No : 11  
 Compound Name : C040 Carbon Disulfide  
 Scan Number : 234  
 Retention Time: 4.73 min.  
 Quant Ion : 76.0  
 Area : 18896  
 Concentration : 3.95 UG/L ✓  
 q-value : 100

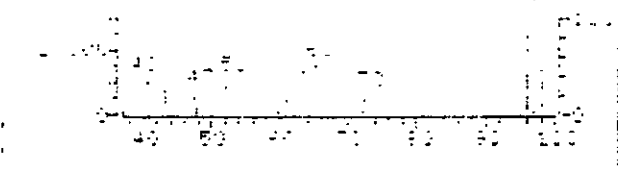


Data File: >F2804::06  
 Name: BALSAM 10126-3 4.96G  
 Misc: U6, CH14, 5UL IS/S, ID# UCC-SB-A-09-4  
 Quant Time: 911008 19:19  
 Injected at: 911008 18:52  
 Last Qcal Time: 911008 08:09

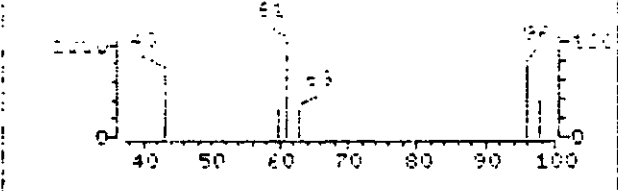
Quant Output File: >F2804::07  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 12  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 264  
 Retention Time: 5.08 min.  
 Quant Ion : 84.0  
 Area : 13003  
 Concentration : 5.59 UG/L  
 q-value : 69

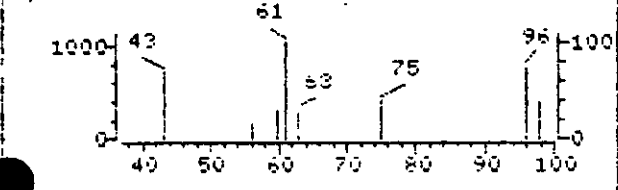
STANDARD SPECTRUM REFERENCE  
BALSAM 10126-3 4.96G



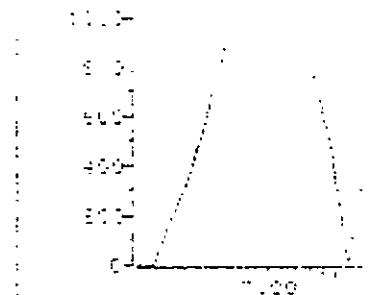
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Scan 427  
Bpk Ab 1036.



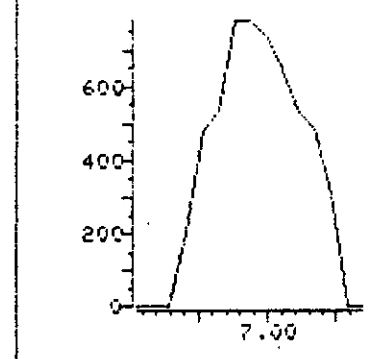
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Scan 427  
Bpk Ab 1036.



STANDARD SPECTRUM REFERENCE  
BALSAM 10126-3 4.96G



FILE >F2204 95.7-94.7 AM



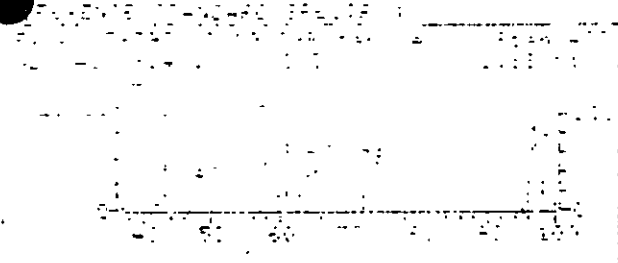
Data File: >F2204::D6  
Name: BALSAM 10126-3 4.96G  
Misc: U6, CH14, SUL IS/S, ID# UCC-SB-A-09-4  
Quant Time: 911008 19:19  
Injected at: 911008 18:52  
Last Qual Time: 911008 08:09

Quant Output File: >F2204::D7  
Instrument ID: U6  
Quant ID File: HAMID6::MT  
Last Calibration: 910408 11:20

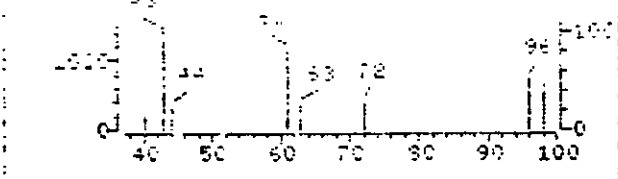
Compound No : 14  
Compound Name : C055 Cis-1,2-dichloroethene  
Scan Number : 427  
Retention Time: 6.98 min.  
Quant Ion : 96.0  
Area : 3832  
Concentration : 1.41 UG/L  
q-value : 93

000083

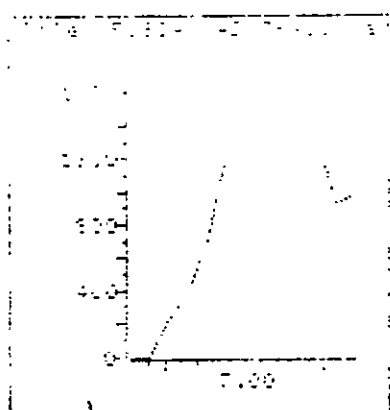
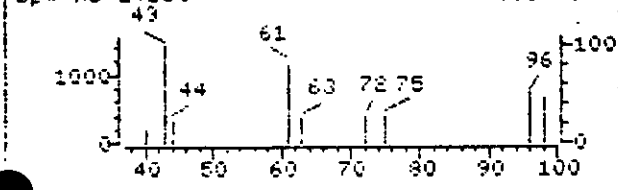




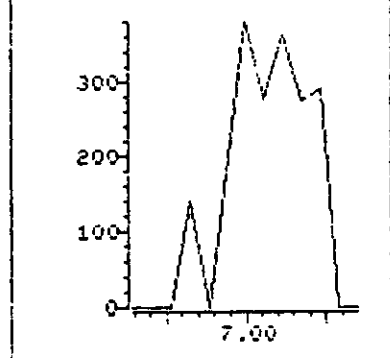
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Bpk AB 1426. 7.00 min.



File >F2804 BALSAM 10126-3 4. Scan 429  
Bpk AB 1426. 7.00 min.



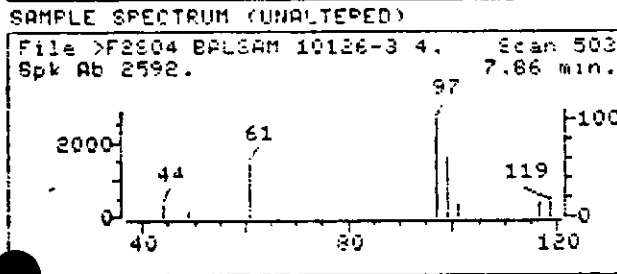
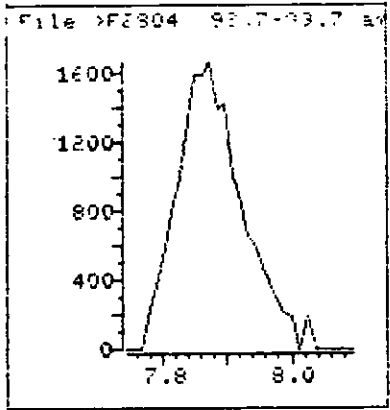
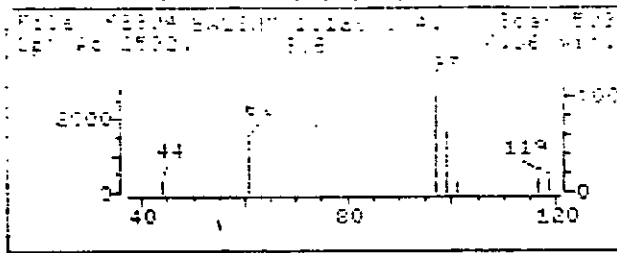
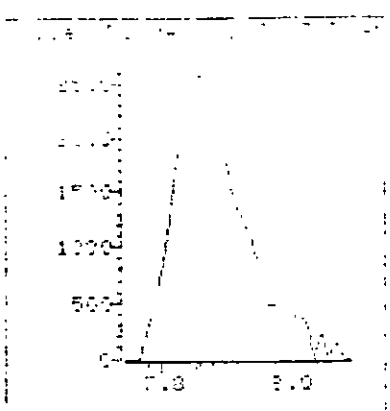
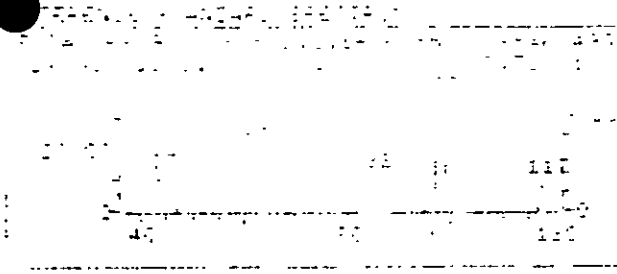
File >F2804 71.7-72.7 am



Data File: >F2804::D6  
Name: BALSAM 10126-3 4.96G  
Misc: U6, CH14, SUL IS/S, ID# UCC-SB-A-09-4  
Quant Time: 911008 19:19  
Injected at: 911008 18:52  
Last Qcal Time: 911008 08:09

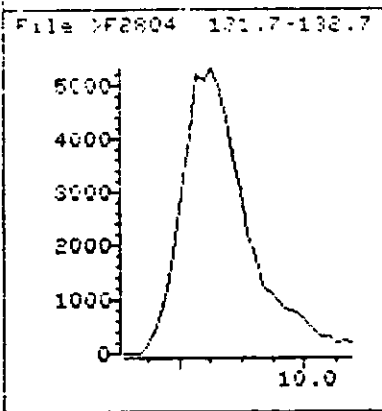
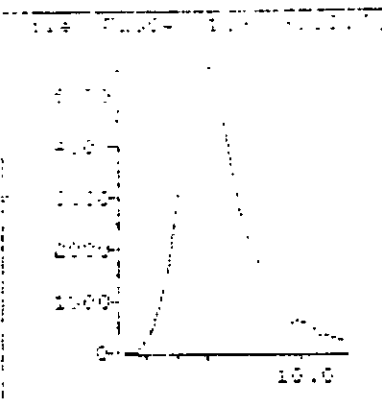
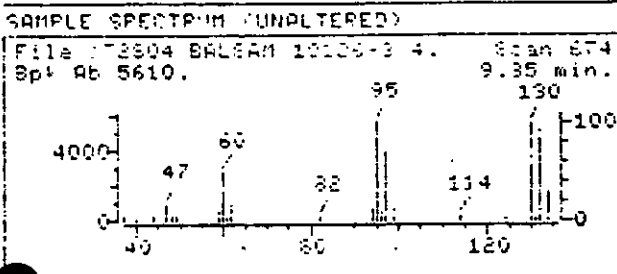
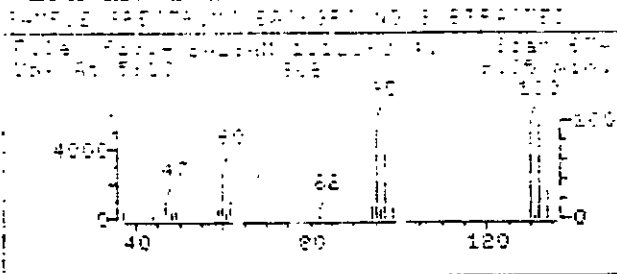
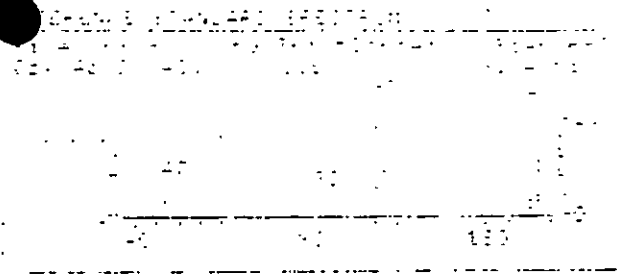
Quant Output File: >F2804::D7  
Instrument ID: U6  
Quant ID File: HAMID6::MT  
Last Calibration: 910408 11:20

Compound No : 18  
Compound Name : C110 2-Butanone  
Scan Number : 429  
Retention Time: 7.00 min.  
Quant Ion : 72.0  
Area : 1329  
Concentration : 2.64 UG/L  
q-value : 85



Data File: F2804::06                      Quant Output File: ^F2804::07  
 Name: BALSAM 10126-3 4.96G                Instrument ID: U6  
 Misc: U6, CH14, FUL IS/S, ID# UCC-SB-A-09-4  
 Quant Time: 911008 19:19                  Quant ID File: HAMID6::MT  
 Injected at: 911008 18:52                 Last Calibration: 910408 11:20  
 Last Qcal Time: 911008 08:09

Compound No : 22  
 Compound Name : C115 1,1,1-Trichloroethane  
 Scan Number : 503  
 Retention Time: 7.86 min.  
 Quant Ion : 97.0  
 Area : 19192  
 Concentration : 4.68 UG/L  
 q-value : 89

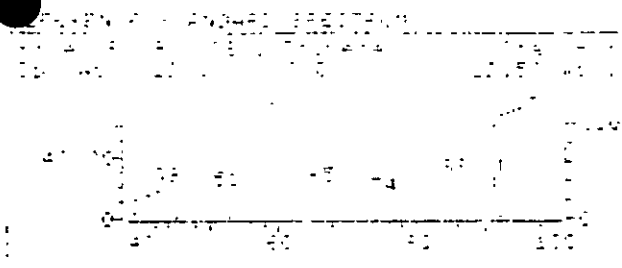


Data File: >F2804::D6  
 Name: BALSAM 10126-3 4.96G  
 Misc: U6, CH14, SUL IS/S, ID# UCC-SB-A-09-4  
 Quant Time: 911008 19:19  
 Injected at: 911008 18:52  
 Last Qcal Time: 911008 08:09

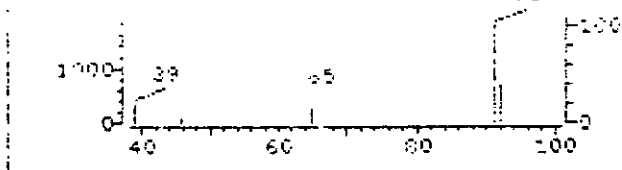
Quant Output File: >F2804::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 25  
 Compound Name : C150 Trichloroethene  
 Scan Number : 674  
 Retention Time: 9.85 min.  
 Quant Ion : 130.0  
 Area : 40345  
 Concentration : 13.58 UG/L  
 q-value : 95

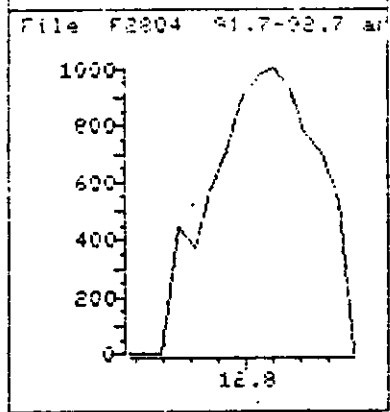
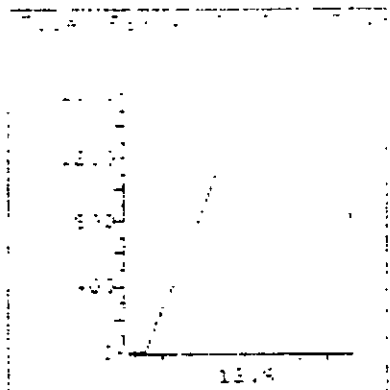
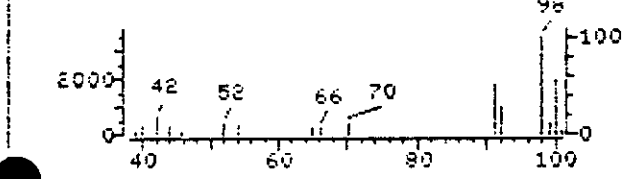
000086



File: ^F2804 BALSAM 10126-3 4. Scan 929  
 Spk Ab 3452. 12.82 min.



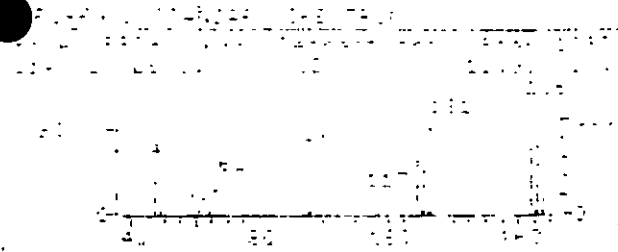
File: ^F2804 BALSAM 10126-3 4. Scan 929  
 Spk Ab 3452. 12.82 min.



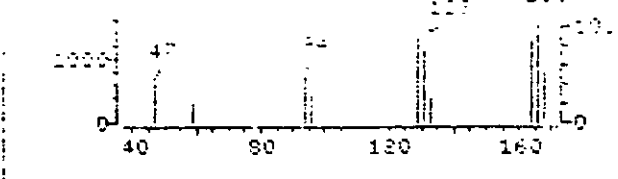
Data File: ^F2804::D6  
 Name: BALSAM 10126-3 4.96G  
 Misc: U6, CH14, 5UL IS/S, ID# UCC-SE-A-09-4  
 Quant Time: 911008 19:19  
 Injected at: 911008 18:52  
 Last Qual Time: 911008 08:09

Quant Output File: ^F2804::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

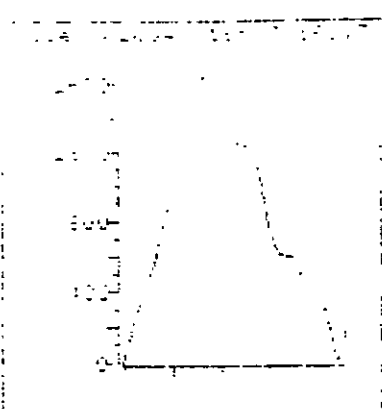
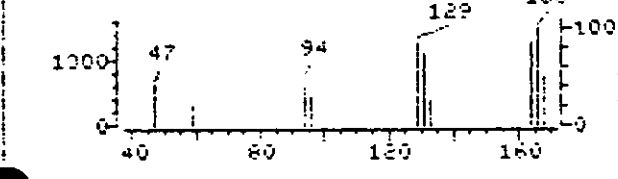
Compound No : 37  
 Compound Name : C230 Toluene  
 Scan Number : 929  
 Retention Time: 12.82 min.  
 Quant Ion : 92.0  
 Area : 5528  
 Concentration : 1.16 UG/L  
 q-value : 97



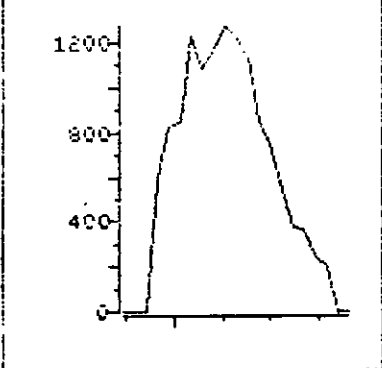
SAMPLE SPECTRUM (UNFILTERED)  
 File: ^F28904 BALSAM 10126-3 4. Scan 1052  
 Bp: Ab 1502.



SAMPLE SPECTRUM (UNFILTERED)  
 File: ^F28904 BALSAM 10126-3 4. Scan 1052  
 Bp: Ab 1502.



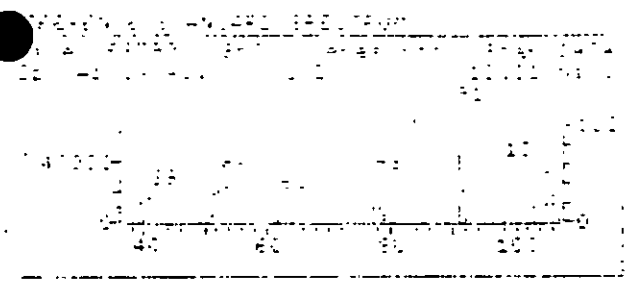
File: ^F28904 153.7-164.7



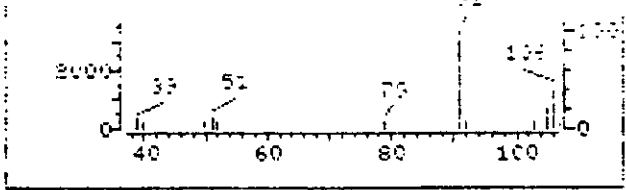
Data File: ^F28904::D6  
 Name: BALSAM 10126-3 4.96G  
 Misc: U6, CH14, 5UL IS/S, 10# UCC-SB-A-09-4  
 Quant Time: 911008 19:19  
 Injected at: 911008 18:52  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F28904::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 39  
 Compound Name : C220 Tetrachloroethene  
 Scan Number : 1052  
 Retention Time: 14.25 min.  
 Quant Ion : 164.0  
 Area : 8934  
 Concentration : 3.64 UG/L  
 q-value : 81

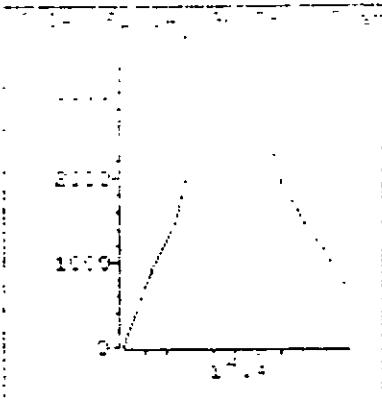
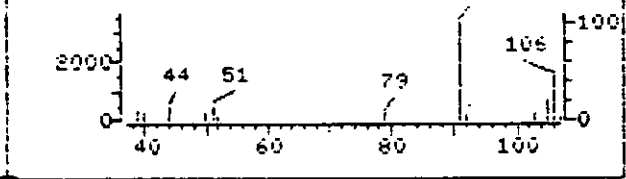


SAMPLE SPECTRUM BACKGROUND SUBTRACTED  
 File: F2804 BALSAM 10126-3 4. Scan 1323  
 Bp# Ab 3347. Ret 17.41 min.

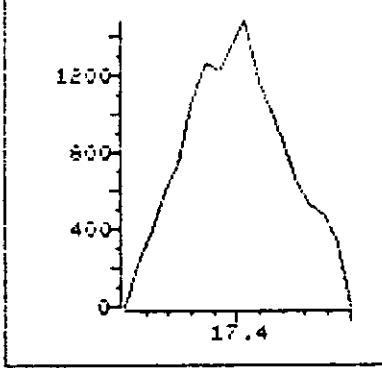


SAMPLE SPECTRUM (UNALTERED)

File: F2804 BALSAM 10126-3 4. Scan 1323  
 Bp# Ab 3347. Ret 17.41 min.



File: F2804 105.7-106.7



Data File: >F2804::06  
 Name: BALSAM 10126-3 4.96G  
 Misc: U6, CH14, 5UL IS/S, 10# UCC-SB-A-09-4  
 Quant Time: 911008 19:19  
 Injected at: 911008 18:52  
 Last Qual Time: 911008 08:09

Quant Output File: <F2804::07  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 50  
 Compound Name : C250 Xylenes (total)  
 Scan Number : 1323  
 Retention Time: 17.41 min.  
 Quant Ion : 106.0  
 Area : 9329  
 Concentration : 2.61 UG/L  
 q-value : 93

*3.29 µg/L*  
*RLJ*  
*100891*

DR  
PK  
100891  
12-16-91

Sample: 0015-01 10106-7 W. 4-3 Run Factor: 1.01  
Order: 10106-7 W. 4-3 10106-7 W. 4-3 10106-7 W. 4-3 Analyte: LID

# Scan	Concentration in Sample (ug/kg)	CAS #	Compound
371	30	<del>111-64-3</del>	<del>Hexane (C6H14)</del> — Unk. C <sub>6</sub> H <sub>14</sub> isomer

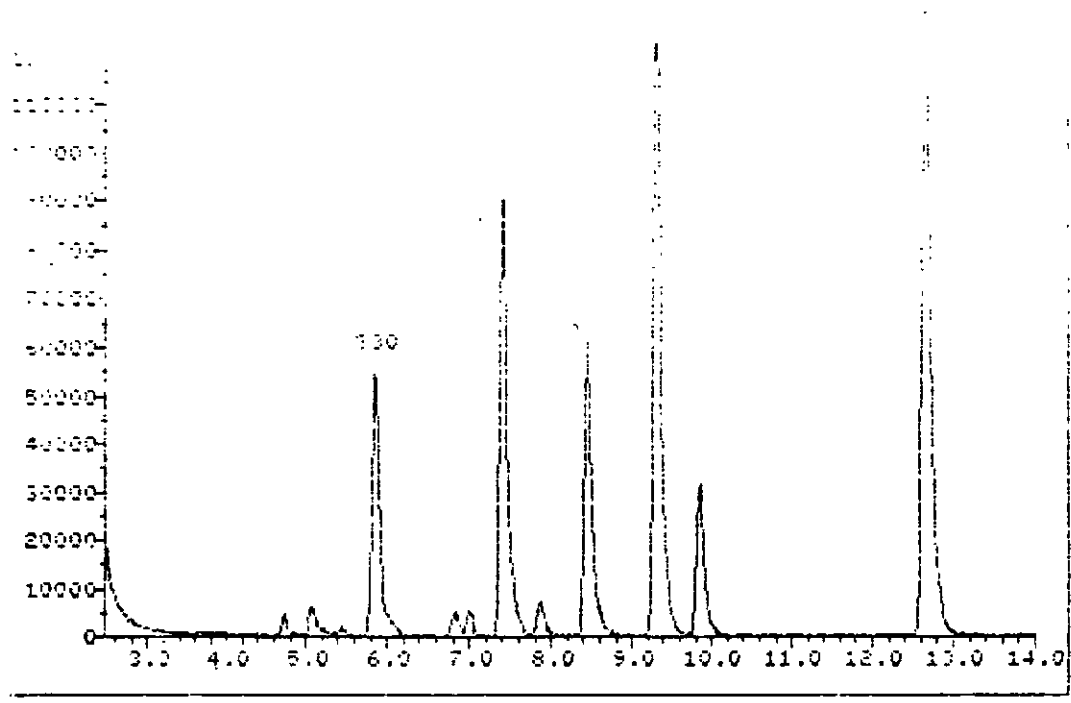
File: 10000

... ..  
... ..

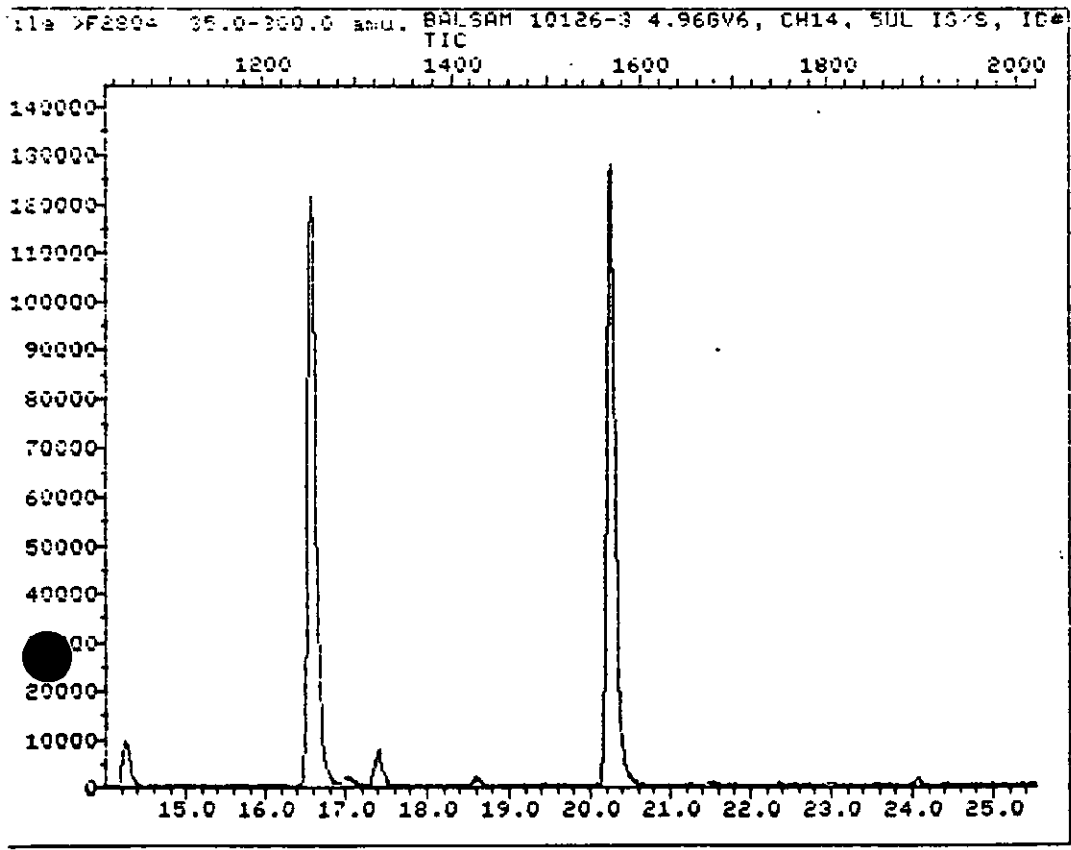
#	Prod.	Cont.	Int.	OF	PCF	Area	Height	%	As Analyzed
1	01	13	:	8.95	.791	347039.	8.104.		24.113



11-20-84 11:00 AM 11/20/84 11:00 AM 11/20/84 11:00 AM



VCC-SB-A-09-4



000092

Sample Name: UDIR87  
 Date: 11/11/87

Integration Summary: Total Area: 1000000.00  
 Number of Peaks: 15  
 Minimum Peak Area: 10000.00

#	Name	Area	Concentration	Flag
1	627.0	79997.0	7.115	OK
2	627.0	384349.0	2.395	OK
3	1251.0	287475.0	3.904	OK

Deleting peaks from INT file: UDIR87  
 Minimum area: 10 % of area of closest Int. Std.  
 Number of peaks: 9  
 Number of peaks remaining: 8

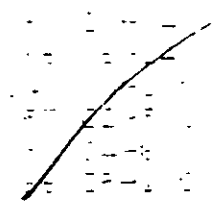
Deleting target compounds from INT file: UDIR87  
 Minimum separation of TIC and target: 5.  
 Maximum fraction of PIC peak from targets: 40. %  
 Number of peaks: 9  
 Number of peaks remaining: 1

Deleting all but largest peaks from INT file: UDIR87  
 Maximum number of peaks to keep: 15  
 Number of peaks: 1  
 Maximum number of peaks > number of peaks.

FR 10-16-91

C<sub>6</sub>H<sub>14</sub> (50)

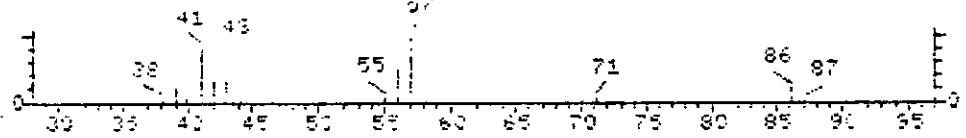
LINKS



Sample name: 99999 Spectrum #: 310  
Search speed: 2 Filtering option: 3 No. of ion ranges searched: 1

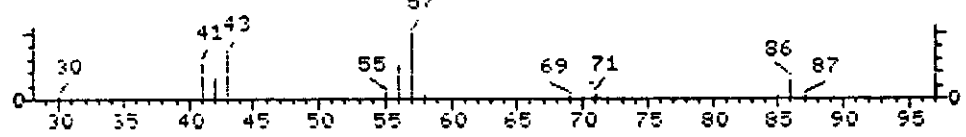
Peak	Ab	CH #	CM #	FOOT	F	CM	#FLG	TILT	%	CM	CM	FL
1.	51*	110543	6306	"BIGDB	44	45	2	0	69	23	22	23
2.	3e*	96140	1036	"BIGDB	32	61	3	0	100	30	14	13
3.	31	927833	1176	"BIGDB	37	34	1	0	100	35	12	14
4.	20*	604839	948	"BIGDB	26	38	2	0	100	53	5	14
5.	20*	115117	940	"BIGDB	21	52	2	0	56	53	5	13
6.	15*	96220	6300	"BIGDB	27	55	0	0	100	58	3	19

File: #F2604 BALSAM 10126-3 4.95598, C414, 50L IS'S, 10# UCC-8 Scan 330  
Spk Ab 9999. SUB MPC 5.95 min.

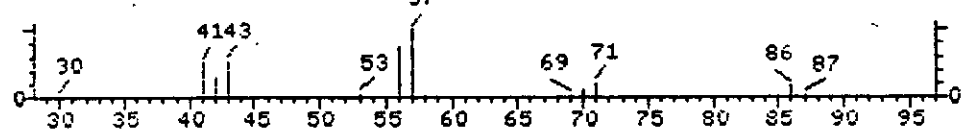


UCC-SB-A-09-4

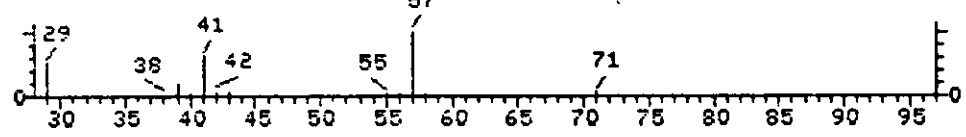
File "BIGDB Hexane (00T)(8C19C1) Scan 6306  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Pentane, 3-methyl- (8C19C1) Scan 1036  
Spk Ab 9999. FLT 0.00 min.



File "BIGDB Diazene, bis(1,1-dimethylethyl)- (9C1) Scan 1176  
Spk Ab 9999. FLT 0.00 min.



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-16-3

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2802

Level: (low/med) LOW Date Received: 10/04/91

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

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	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	32	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	63	
540-59-0	1,2-Dichloroethene (total)	30	
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	20	
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	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	11	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	21	
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	83	

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-16-3

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F2802

Level: (low/med) LOW Date Received: 10/04/91

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

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.	C8H160 ISOMER	21.19	18	J
2.	UNKNOWN	21.96	5.8	J
3.	UNKNOWN	22.33	85	J

100-50  
R-100851-VGA

DEZAS  
10/3

Sample ID: D2 Date: 10/21/91 Date Filed: \_\_\_\_\_  
 Project: R Method: 10-10-91 Analyst: \_\_\_\_\_  
 Erssco Mass Spectrometry  
 Target Compound: \_\_\_\_\_

Sample: BALSAM 10126-9 9.056  
 Method: Tel. CHM2, Rev. 12/91, GC-89-B-1-1-3  
 Injected: 10/20/91 17:08 Units: UG UG  
 Analyst: ZEPYUWPA Run Factor: 1.00 ✓  
 ID File: HAMID6 Surrogate Multi: 1.00  
 Quant List threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	OC limits
CS15 D4-1,2-dichloroethane	.2500	.2404	96.2	70 121
CS05 D8-Toluene	.2500	.2480	99.2	84 117
CS10 Bromofluorobenzene	.2500	.2478	99.1	59 121

Target Compounds: HAMID6

Scan #	Concentration Quant List 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
216	28.383	(28)	C035 Acetone —
	BDL		C040 Carbon Disulfide
267	3.100	(3.1) J	C030 Methylene Chloride —
	BDL		C053 Trans-1,2-dichloroethene
432	26.747	(26)	C055 Cis-1,2-dichloroethene —
352	56.132	(56)	C050 1,1-Dichloroethane —
	BDL		C060 Chloroform
	BDL		C065 1,2-Dichloroethane
434	5.523	(5.5) J, b	C110 2-Butanone —
	BDL		C125 Vinyl Acetate
506	17.480	(17)	C115 1,1,1-Trichloroethane —
505	2.710	2.2 RDX	C120 Carbon Tetrachloride
	BDL		C165 Benzene
677	1.103	(1.1) 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

000096

10/14/81 10:00 AM

Peak #	Area	Sample	Compound
		BDL	C160 1,1,2-Trichloroethane
		BDL	C185 Dibromochloromethane
		BDL	C188 Bromoform
100	1.647	(1.1) J	C195 4-Methyl-2-pentanone
		BDL	C200 Toluene —
1002	4.279	(4.2) J	C210 2-Hexanone
		BDL	C220 Tetrachloroethene —
1202	18.713	(1.0)	C235 Chlorobenzene
1322	49.622	<del>4.9</del>	C240 Ethylbenzene —
1425	22.329	<del>2.2</del> NR	CXXX Xylenes (p)
			CXXX Xylenes (o)
		BDL	C245 Styrene
		BDL	C225 1,1,2,2-Tetrachloroethane
		BDL	C335 Dichlorobenzene (m)
		BDL	C340 Dichlorobenzene (p)
	74.29	(23.55)	C350 Dichlorobenzene (o) —
1425	22.190	<del>2.2</del> →	C250 Xylenes (total)

PRU 100891

Date: 01/10/2005  
 File: H41051007  
 Calibrated: 11:20 04-10-91

Compound	- P.V. Info -				Area	RF	Conc.
	Pred	Found	Dif	Ion			
1) *C101 Bromochloromethane	7.23	7.41	.18	128.0	24111	1.0000	10.00
2) C012 Dichlorodifluorometh	2.50	0.00	--	85.0	0	1.0000	0.00
3) C010 Chloromethane	2.74	0.00	--	50.0	0	1.1071	0.00
4) C009 Vinyl Chloride	2.88	0.00	--	62.0	0	1.0000	0.00
5) C015 Bromomethane	3.30	0.00	--	94.0	0	1.1071	0.00
6) C025 Chloroethane	3.40	0.00	--	64.0	0	1.0017	0.00
7) C028 Trichlorofluorometha	3.74	0.00	--	101.0	0	1.9343	0.00
8) C045 1,1-Dichloroethene	4.40	0.00	--	96.0	0	1.0123	0.00
9) C038 1,1,2-Trichloro-1,2,	4.40	0.00	--	101.0	0	2.3058	0.00
10) C035 Acetone	4.51	4.48	.02	43.0	20721	.4339	29.39
11) C040 Carbon Disulfide	4.71	4.73	.02	76.0	1687	2.9923	.34
12) C030 Methylene Chloride	5.07	5.08	.01	84.0	7599	1.4571	3.10
13) C053 Trans-1,2-dichloroet	5.44	0.00	--	96.0	0	1.4870	0.00
14) C055 Cis-1,2-dichloroetha	6.99	7.00	.01	96.0	76565	1.7015	26.75
15) C050 1,1-Dichloroethane	6.07	6.07	.00	63.0	269924	2.8582	56.13
16) C060 Chloroform	7.55	0.00	--	83.0	0	3.1850	0.00
17) C065 1,2-Dichloroethane	8.60	0.00	--	62.0	0	2.1457	0.00
18) C110 2-Butanone	7.05	7.02	.03	72.0	2428	.3151	5.52
19) C015 D4-1,2-dichloroethan	8.46	8.43	.03	65.0	138759	1.7150	45.07
20) *C110 1,4-Difluorobenzene	9.12	9.31	.19	114.0	400004	1.0000	53.00
21) C125 Vinyl Acetate	6.12	0.00	--	43.0	0	.9307	0.00
22) C115 1,1,1-Trichloroethan	7.85	7.86	.01	97.0	74535	.5330	17.49
23) C120 Carbon Tetrachloride	8.14	7.85	.29	117.0	9500	.4382	2.71
24) C165 Benzene	8.53	0.00	--	78.0	0	.9528	0.00
25) C150 Trichloroethene	9.84	9.85	.01	130.0	3411	.3865	1.10
26) C140 1,2-Dichloropropane	10.32	0.00	--	63.0	0	.4025	0.00
27) C130 Bromodichloromethane	10.95	0.00	--	83.0	0	.6435	0.00
28) C175 2-Chloroethylvinylet	11.70	0.00	--	63.0	0	.2689	0.00
29) C143 Cis-1,3-Dichloroprop	12.02	0.00	--	75.0	0	.5928	0.00
30) C172 Trans-1,3-dichloropr	13.46	0.00	--	75.0	0	.5155	0.00
31) C160 1,1,2-Trichloroethan	13.92	0.00	--	97.0	0	.3815	0.00
32) C155 Dibromochloromethane	14.98	0.00	--	129.0	0	.5619	0.00
33) C180 Bromoform	19.26	0.00	--	173.0	0	.4211	0.00
34) *C120 D5-Chlorobenzene	16.30	16.54	.24	117.0	316820	1.0000	50.00
35) C005 D8-Toluene	12.60	12.64	.04	98.0	394306	1.2547	49.60
36) C205 4-Methyl-2-pentanone	12.38	0.00	--	43.0	0	.9161	0.00
37) C230 Toluene	12.78	12.80	.02	92.0	8877	.8255	1.70
38) C210 2-Hexanone	14.62	0.00	--	43.0	0	.6983	0.00
39) C220 Tetrachloroethene	14.20	14.22	.02	164.0	11563	.4264	4.28
40) C235 Chlorobenzene	16.62	0.00	--	112.0	0	1.0439	0.00
41) C240 Ethylbenzene	17.01	17.02	.00	106.0	58872	.4965	18.71
42) D C240 Ethylbenzene	17.01	17.37	.35	106.0	206832	.4965	65.74
43) CXXX Xylenes (p)	17.39	17.02	.37	106.0	58872	.6578	14.12
44) CXXX Xylenes (p)	17.39	17.37	.02	106.0	206832	.6578	49.62
45) CXXX Xylenes (o)	18.59	18.57	.02	106.0	87357	.6174	22.33
46) C245 Styrene	18.64	18.57	.08	104.0	4694	1.0869	.68
47) C225 1,1,2,2-Tetrachloroe	20.86	0.00	--	83.0	0	1.0059	0.00
48) C010 Bromofluorobenzene	20.24	20.22	.02	95.0	237233	.7553	000098
49) C335 Dichlorobenzene (m)	23.87	0.00	--	146.0	0	.9166	0.00
50) C335 Dichlorobenzene (p)	23.87	0.00	--	146.0	0	.9166	0.00





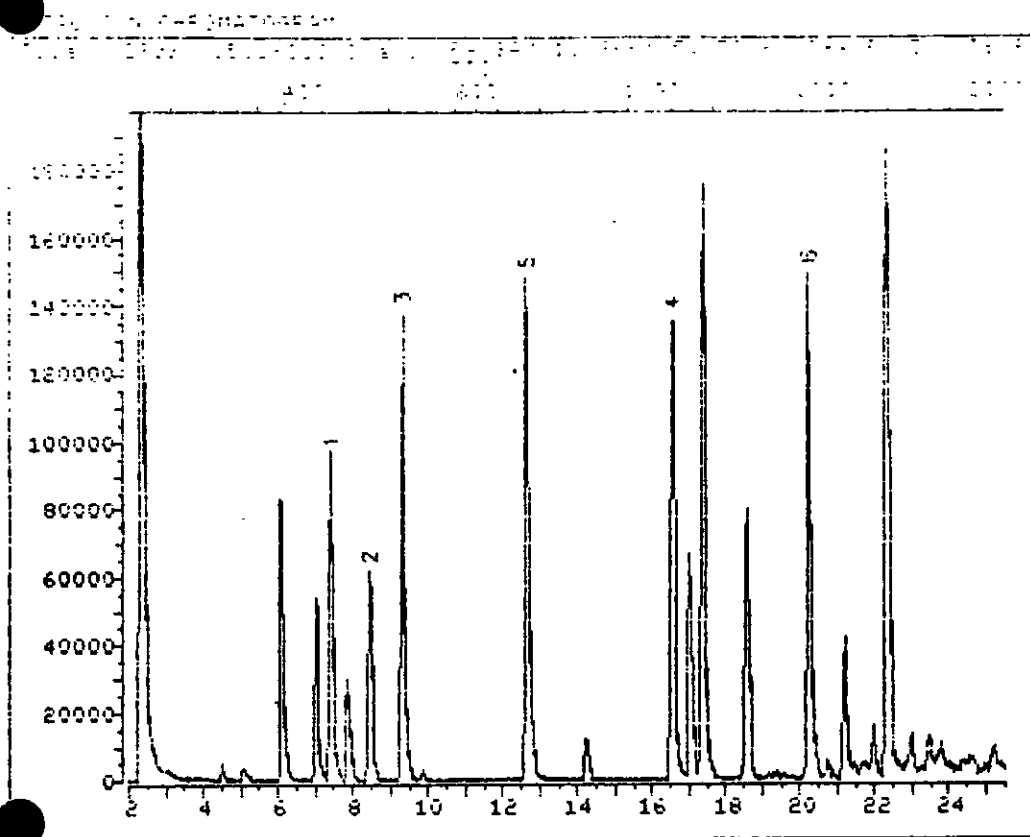
Internal Standard Concentration

Sample: 20932 Date Injected: 10/18/91 Standard: 40-40 ✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	84121	91942	91.9
CI10 1,4-Difluorobenzene	409004	441917	90.5 ✓
CI20 D5-Chlorobenzene	316820	336266	94.2

% = (Sample Area/Std Area)\*100

\* Area outside limits



Data File: >F2802::D6

Quant Output File: ^F2802::D7

Name: BALSAM 10126-5 5.05G

Instrument ID: U6

Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3

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 17:35

Injected at: 911008 17:08

.000101

Operator ID: JBL/MLW  
 Data File: F08.D110a  
 Misc: No. CH#12, PDL 1519, UCC-88-B-1e-3  
 Instrument ID: 15

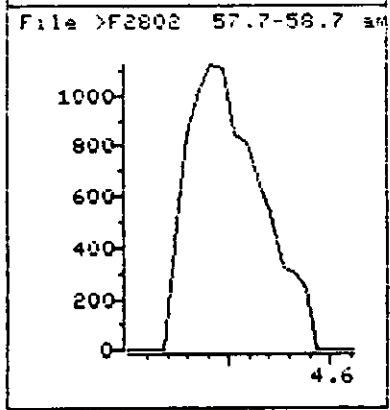
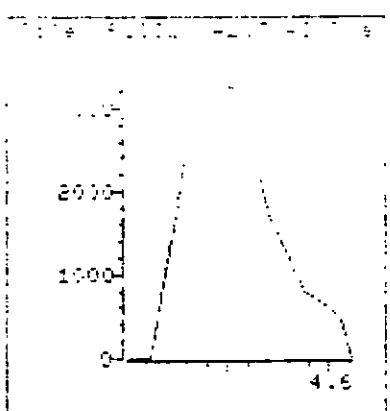
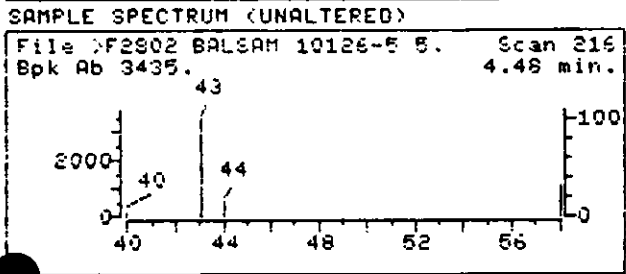
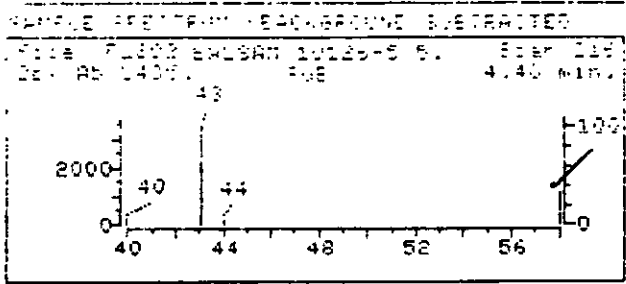
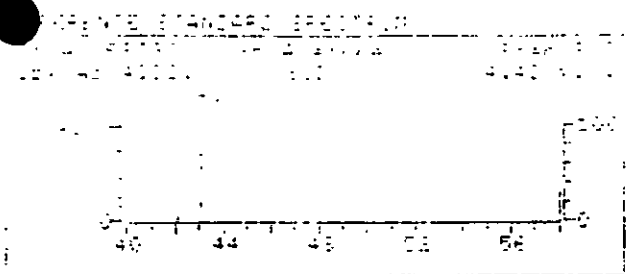
ID File: HEM10a:INT  
 Title: PSL VOLATILES: 78m x .53mm: 502.2, 1 - PID EPCO 1EN500  
 Last Calibration: 910408 11:20  
 Last Cal Time: 911008 08:09

	Compound	R.T.	Q Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.41	129.0	84121	50.00	UG/L	80
10)	C035 Acetone	4.48	43.0	20721	28.38	UG/L	12
11)	C040 Carbon Disulfide	4.73	76.0	1687	.335	UG/L	100
12)	C030 Methylene Chloride	5.08	84.0	7599	3.10	UG/L	99
14)	C055 Cis-1,2-dichloroethene	7.00	96.0	76565	26.75	UG/L	89
15)	C050 1,1-Dichloroethane	6.07	63.0	269924	56.13	UG/L	100
18)	C110 2-Butanone	7.02	72.0	2928	5.52	UG/L	87
19)	CS15 D4-1,2-dichloroethane	8.43	65.0	138759	48.07	UG/L	89
20)	*C110 1,4-Difluorobenzene	9.31	114.0	400004	50.00	UG/L	100
21)	C115 1,1,1-Trichloroethane	7.86	97.0	74535	17.48	UG/L	88
23)	C120 Carbon Tetrachloride	7.85	117.0	9500	2.71	UG/L	99
25)	C150 Trichloroethene	9.85	130.0	3411	1.10	UG/L	95
34)	*C120 O5-Chlorobenzene	16.54	117.0	316820	50.00	UG/L	100
35)	CS05 O8-Toluene	12.64	98.0	394306	49.60	UG/L	95
37)	C230 Toluene	12.80	92.0	8877	1.70	UG/L	88
39)	C220 Tetrachloroethene	14.22	164.0	11563	4.28	UG/L	95
41)	C240 Ethylbenzene	17.02	106.0	58872	18.71	UG/L	98
42)	CXXX Xylenes (p)	17.37	106.0	206832	49.62	UG/L	95
43)	CXXX Xylenes (o)	18.57	106.0	87357	22.33	UG/L	95
44)	C245 Styrene	18.57	104.0	4694	.682	UG/L	100
46)	CS10 Bromofluorobenzene	20.22	95.0	237233	49.57	UG/L	73
50)	C250 Xylenes (total)	18.57	106.0	<del>87357</del>	<del>22.19</del>	UG/L	97

292479M 74.29 ug/L

\* Compound is ISTD

TR100891



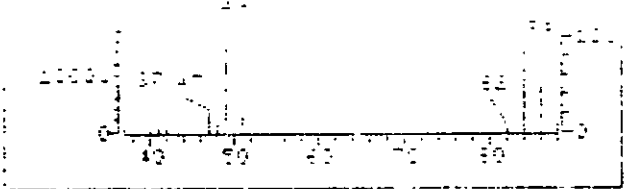
Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: V6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 10  
 Compound Name : C035 Acetone  
 Scan Number : 216  
 Retention Time: 4.48 min.  
 Quant Ion : 43.0  
 Area : 20721  
 Concentration : 28.38 UG/L ✓  
 q-value : 12

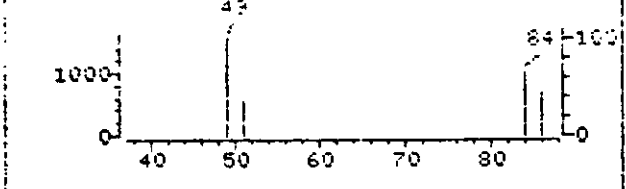
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REFERENCE SPECTRUM (UNALTERED)  
 File F2802 BALSAM 10126-5 5.05G Scan 267  
 Spt. At 1557. 5.08 min.



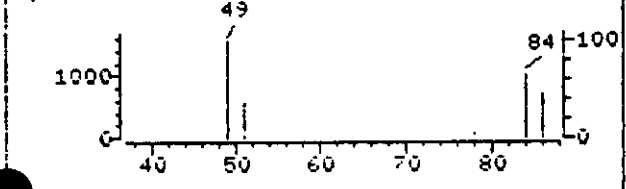
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File F2802 BALSAM 10126-5 5.05G Scan 267  
 Spt. At 1557. 5.08 min.

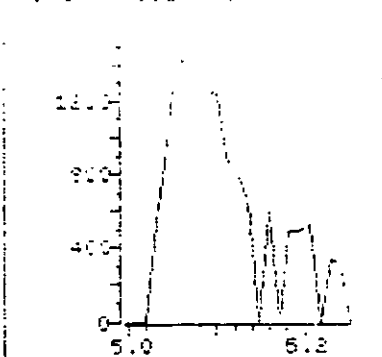


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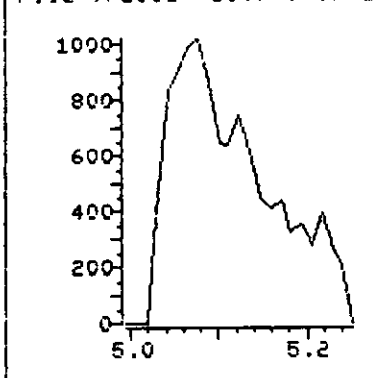
File >F2802 BALSAM 10126-5 5.05G Scan 267  
 Spt. At 1557. 5.08 min.



File >F2802 83.7-84.7 min



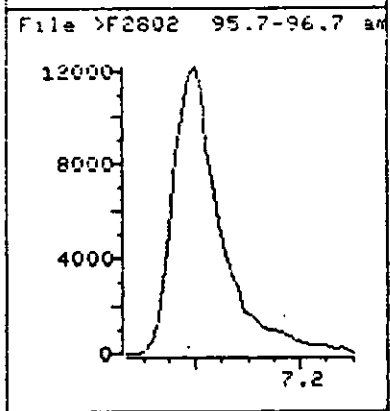
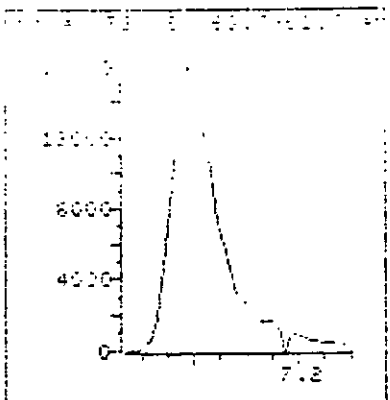
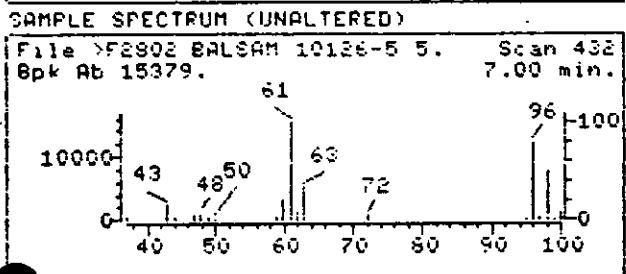
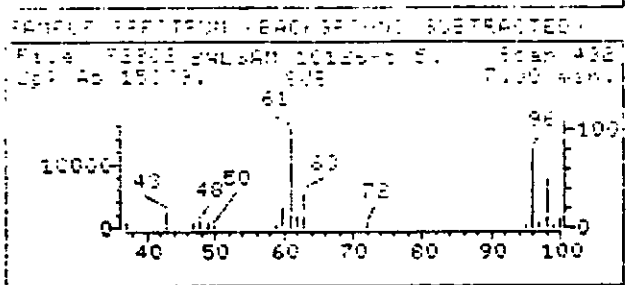
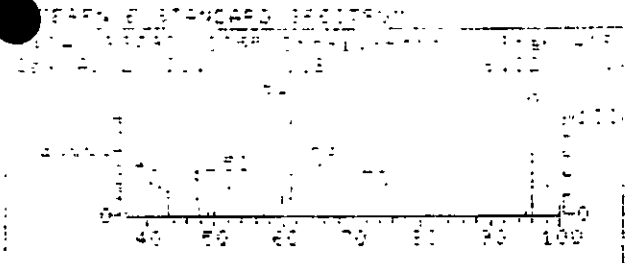
File >F2802 83.7-84.7 min



Data File: >F2802::06  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::07  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 12  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 267  
 Retention Time: 5.08 min.  
 Quant Ion : 84.0  
 Area : 7599  
 Concentration : 3.10 UG/L ✓  
 q-value : 99



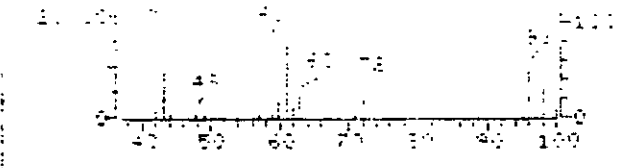
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 Name: BALSAM 10126-5 5.05G            Instrument ID: U6  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35            Quant ID File: HAMID6::MT  
 Injected at: 911008 17:08            Last Calibration: 910408 11:20  
 Last Qcal Time: 911008 08:09

Compound No : 14  
 Compound Name : C055 Cis-1,2-dichloroethene  
 Scan Number : 432  
 Retention Time: 7.00 min.  
 Quant Ion : 96.0  
 Area : 76565  
 Concentration : 26.75 UG/L  
 q-value : 89



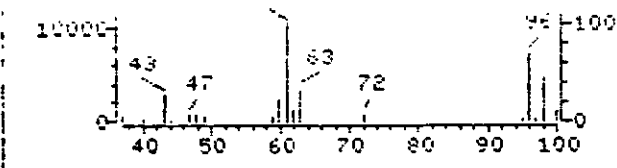


MASS SPECTRUM (ALTERNATE)  
 File: F1002 BALSAM 10126-5 5. Scan 434  
 Op. Ab 12473. Bpk 7.02 min.



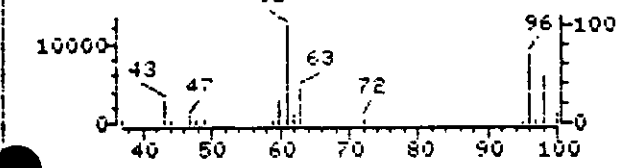
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File: F1002 BALSAM 10126-5 5. Scan 434  
 Op. Ab 12473. Bpk 7.02 min.

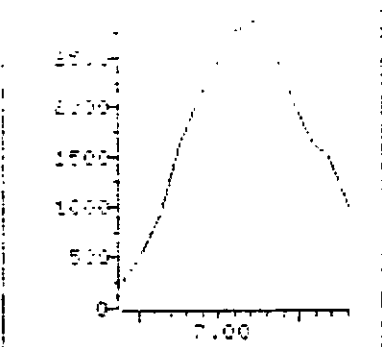


SAMPLE SPECTRUM (UNALTERED)

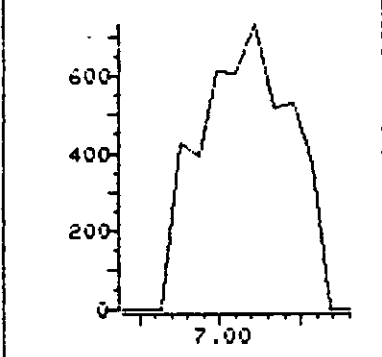
File: F2802 BALSAM 10126-5 5. Scan 434  
 Bpk Ab 12274. Bpk 7.02 min.



File: F2802 4.007-40.72 an



File: F2802 71.7-72.7 an

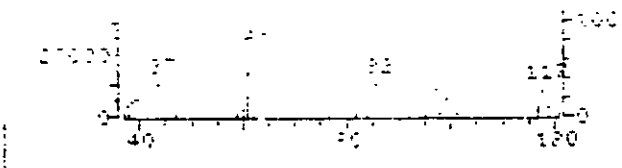


Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

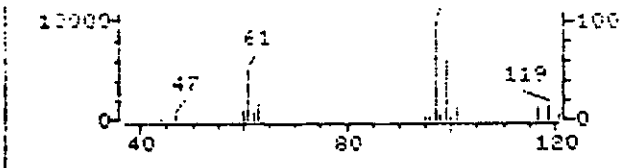
Compound No : 18  
 Compound Name : C110 2-Butanone  
 Scan Number : 434  
 Retention Time: 7.02 min.  
 Quant Ion : 72.0  
 Area : 2928  
 Concentration : 5.52 UG/L ✓  
 q-value : 87

REFERENCE STANDARD SPECTRUM  
 File >F2802 BALSAM 10126-5 5. Scan 4-  
 Sp: Ab 9873. 506 7.86 min.



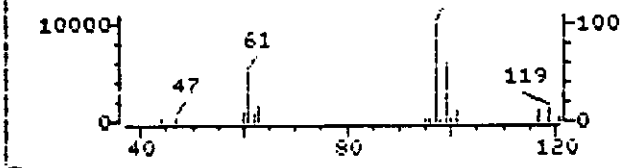
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >F2802 BALSAM 10126-5 5. Scan 506  
 Sp: Ab 9873. 506 7.86 min.

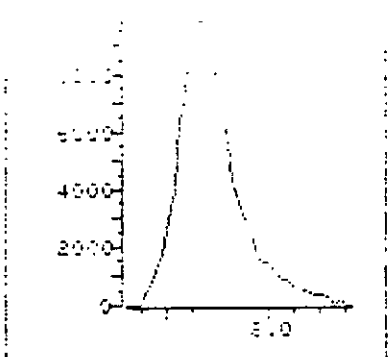


SAMPLE SPECTRUM (UNALTERED)

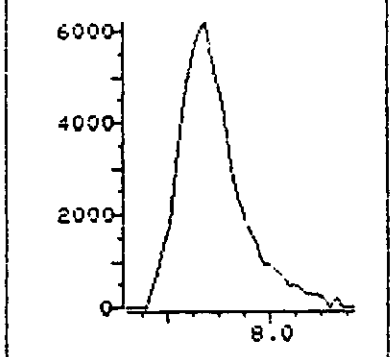
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 Bpk Ab 9873. 506 7.86 min.



File >F2802 98.7-99.7 min



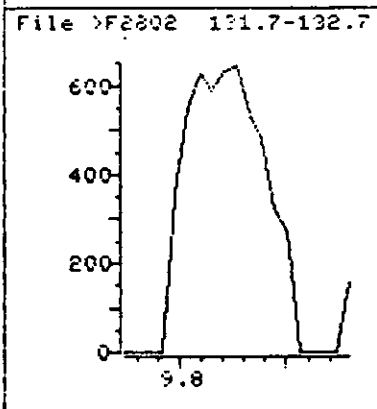
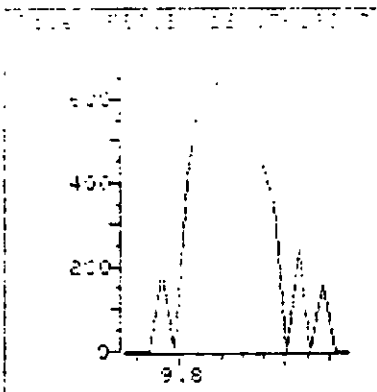
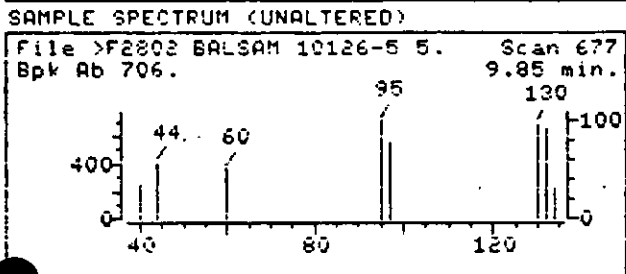
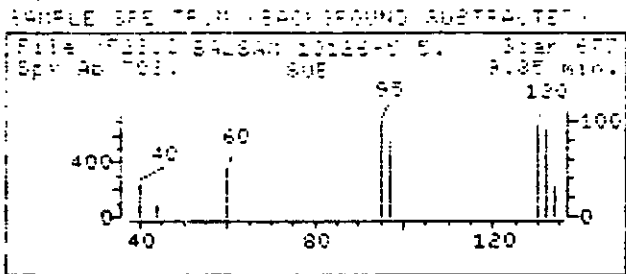
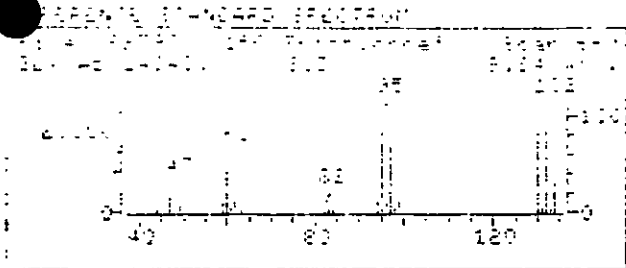
File >F2802 98.7-99.7 min



Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: >F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

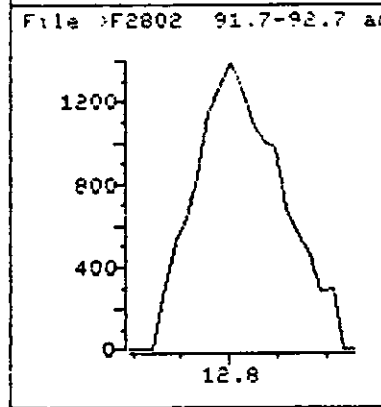
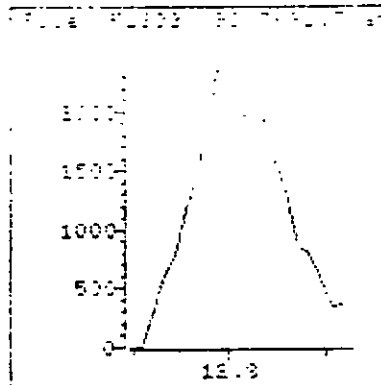
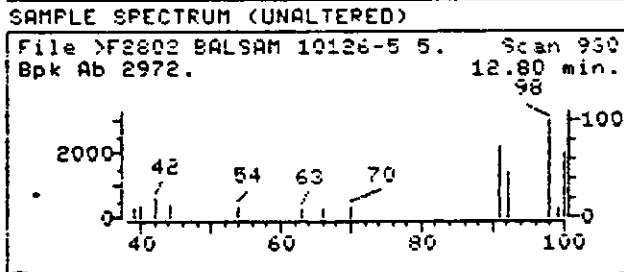
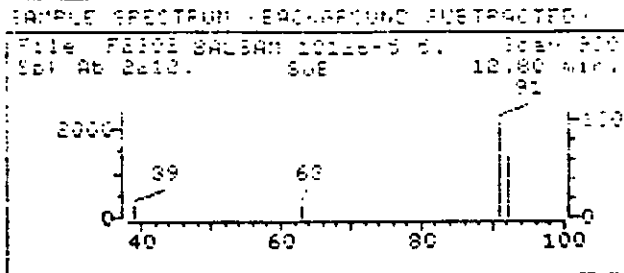
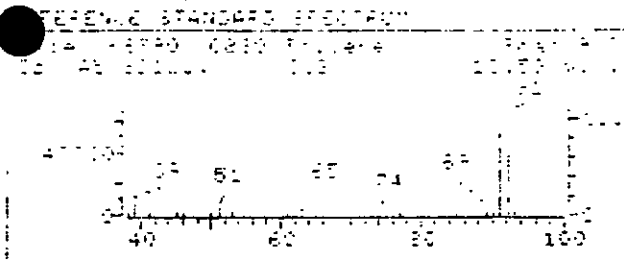
Compound No : 22  
 Compound Name : C115 1,1,1-Trichloroethane  
 Scan Number : 506  
 Retention Time: 7.86 min.  
 Quant Ion : 97.0  
 Area : 74535  
 Concentration : 17.48 UG/L ✓  
 q-value : 88



Data File: >F2802::06                      Quant Output File: ^F2802::07  
 Name: BALSAM 10126-5 5.05G                Instrument ID: U6  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35                    Quant ID File: HAMID6::MT  
 Injected at: 911008 17:08                    Last Calibration: 910408 11:20  
 Last Qcal Time: 911008 08:09

Compound No : 25  
 Compound Name : C150 Trichloroethene  
 Scan Number : 677  
 Retention Time: 9.85 min.  
 Quant Ion : 130.0  
 Area : 3411  
 Concentration : 1.10 UG/L  
 q-value : 95

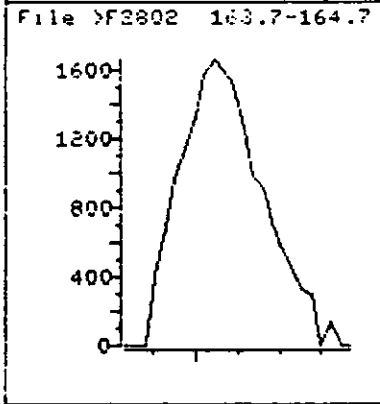
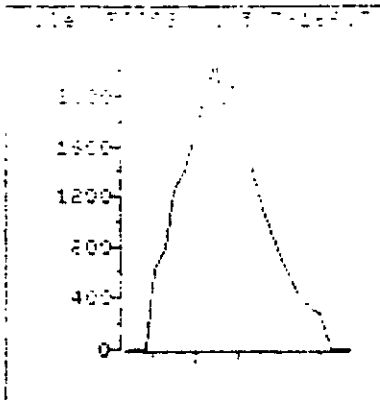
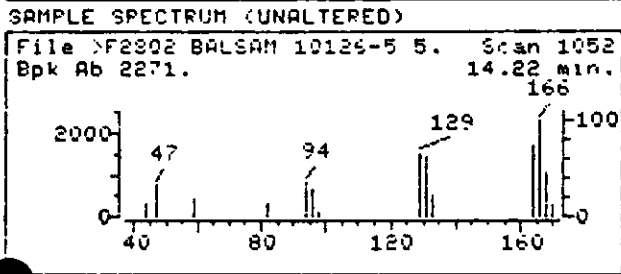
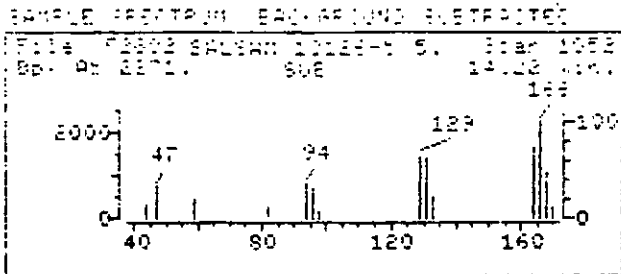
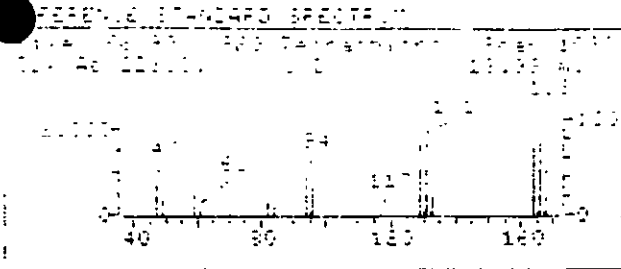
000109



Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAM106::MT  
 Last Calibration: 910408 11:20

Compound No : 37  
 Compound Name : C230 Toluene  
 Scan Number : 930  
 Retention Time: 12.80 min.  
 Quant Ion : 92.0  
 Area : 8877  
 Concentration : 1.70 UG/L  
 q-value : 88

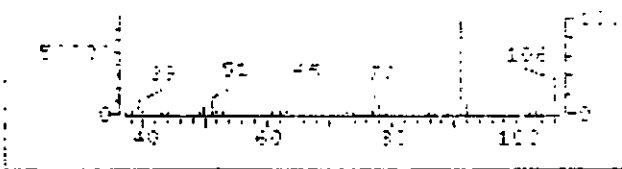


Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

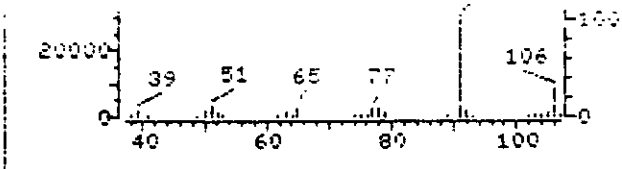
Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 39  
 Compound Name : C220 Tetrachloroethene  
 Scan Number : 1052  
 Retention Time: 14.22 min.  
 Quant Ion : 164.0  
 Area : 11563  
 Concentration : 4.28 UG/L ✓  
 q-value : 95

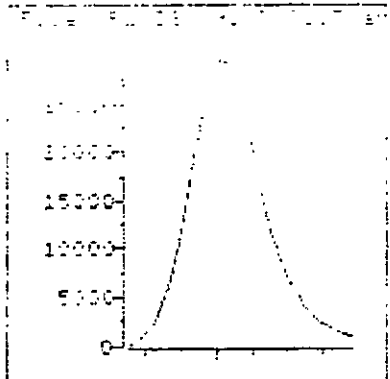
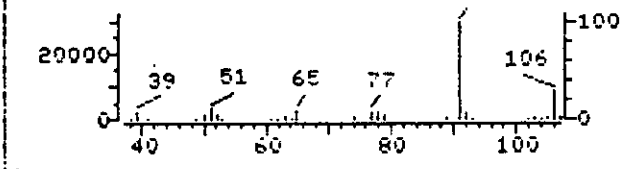
REFERENCE STANDARD SPECTRUM  
 File >F2802 BALSAM 10126-5 5.05G Scan 1292  
 Bpk Ab 29424. 90E 17.02 min.



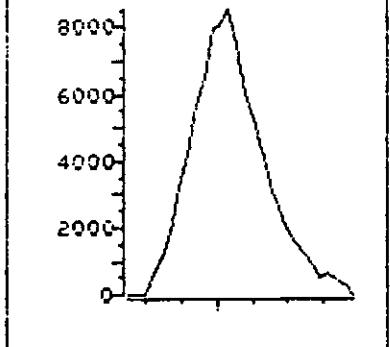
SAMPLE SPECTRUM 200-SCANS ELECTRODET  
 File >F2802 BALSAM 10126-5 5.05G Scan 1292  
 Bpk Ab 29424. 90E 17.02 min.



SAMPLE SPECTRUM (UNALTERED)  
 File >F2802 BALSAM 10126-5 5.05G Scan 1292  
 Bpk Ab 29424. 90E 17.02 min.



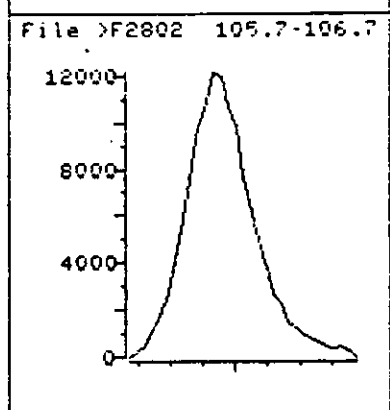
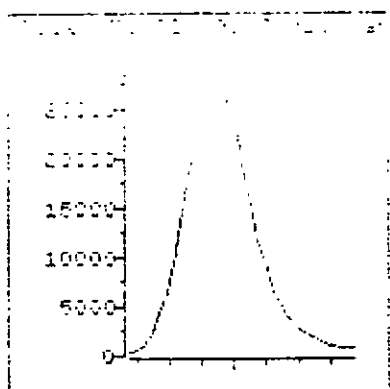
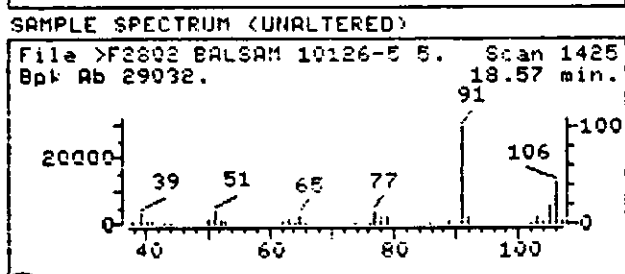
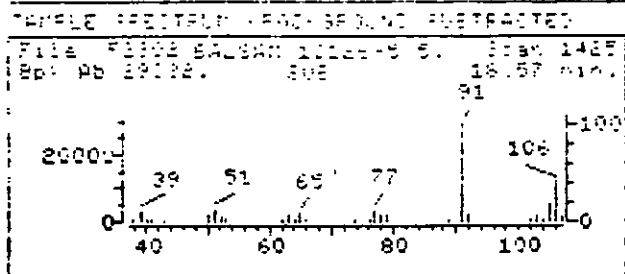
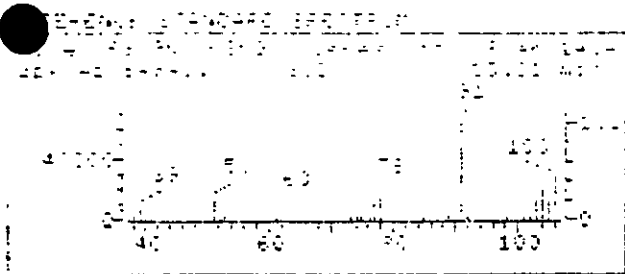
File >F2802 105.7-106.7



Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, SUL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 41  
 Compound Name : C240 Ethylbenzene  
 Scan Number : 1292  
 Retention Time: 17.02 min.  
 Quant Ion : 106.0  
 Area : 58872  
 Concentration : 18.71 UG/L  
 q-value : 98



Data File: >F2802::D6  
 Name: BALSAM 10126-5 5.05G  
 Misc: U6, CH#12, 5UL IS/S, UCC-SB-B-16-3  
 Quant Time: 911008 17:35  
 Injected at: 911008 17:08  
 Last Qcal Time: 911008 08:09

Quant Output File: ^F2802::D7  
 Instrument ID: U6  
 Quant ID File: HAMID6::MT  
 Last Calibration: 910408 11:20

Compound No : 50  
 Compound Name : C250 Xylenes (total)  
 Scan Number : 1425  
 Retention Time: 18.57 min.  
 Quant Ion : 106.0  
 Area : 87368  
 Concentration : 22.19 UG/L  
 q-value : 97

74.29 UG/L  
 12U100891

Sample ID: DU Date: 100891  
Data Generated: 28 Date: 10-10-91

Lab File: 100891

Appendix 10 Report Page 1

Sample: BALSAM 10126-5 5.095 Run Factor: .000  
Conditions: U6, CH#12, SUL 15/S, ULC-58-B- Analyst: KERYLYNN

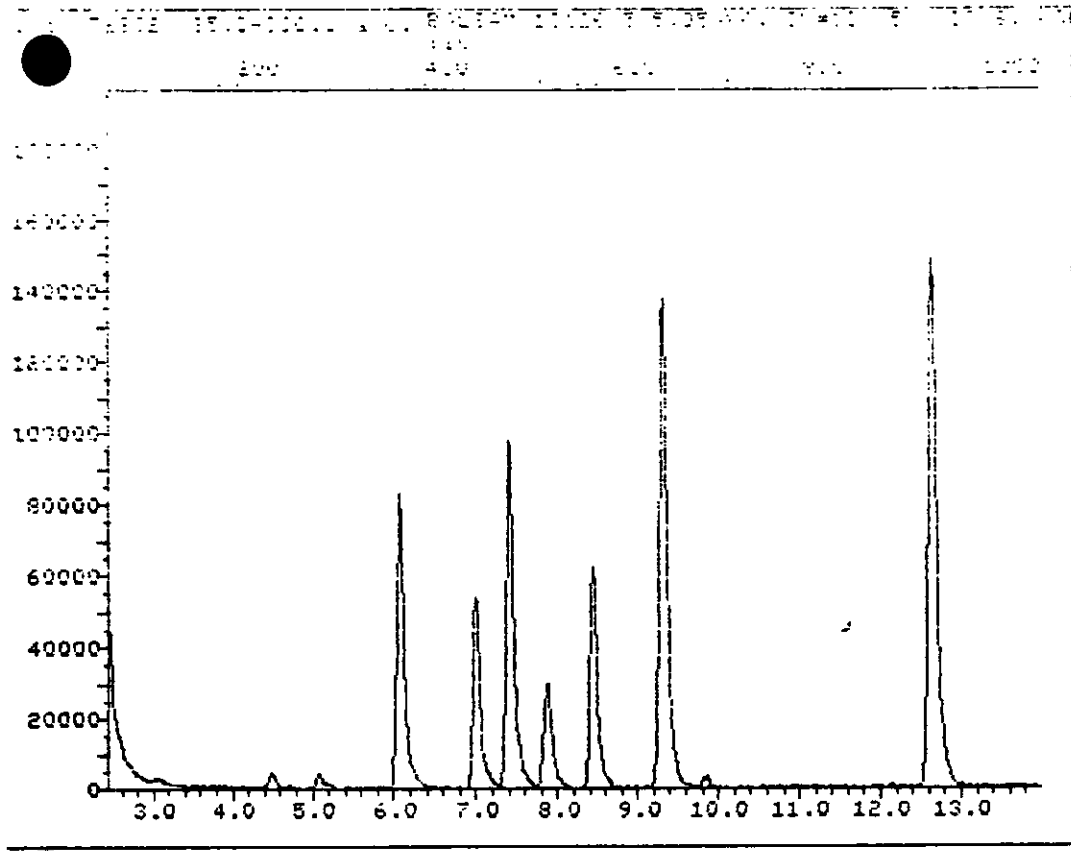
# Scan	O	C	Concentration In Sample (UG/KG)	CAS #	Compound	
1	1550.		16.	<del>541-85-5</del>	<del>3-Heptanone, 5-methyl-</del>	C <sub>8</sub> H <sub>16</sub> O ISOMERS
2	1716.		5.1	<del>34375-89-8</del>	<del>Pyrrolidine, 3-methyl-</del>	Unkn's
3	1748.		75.	<del>815-24-7</del>	<del>3-Pentanone, 2,2,4,4-tetramethyl-</del>	unknown

~~C<sub>8</sub>H<sub>16</sub>O ISOMERS~~

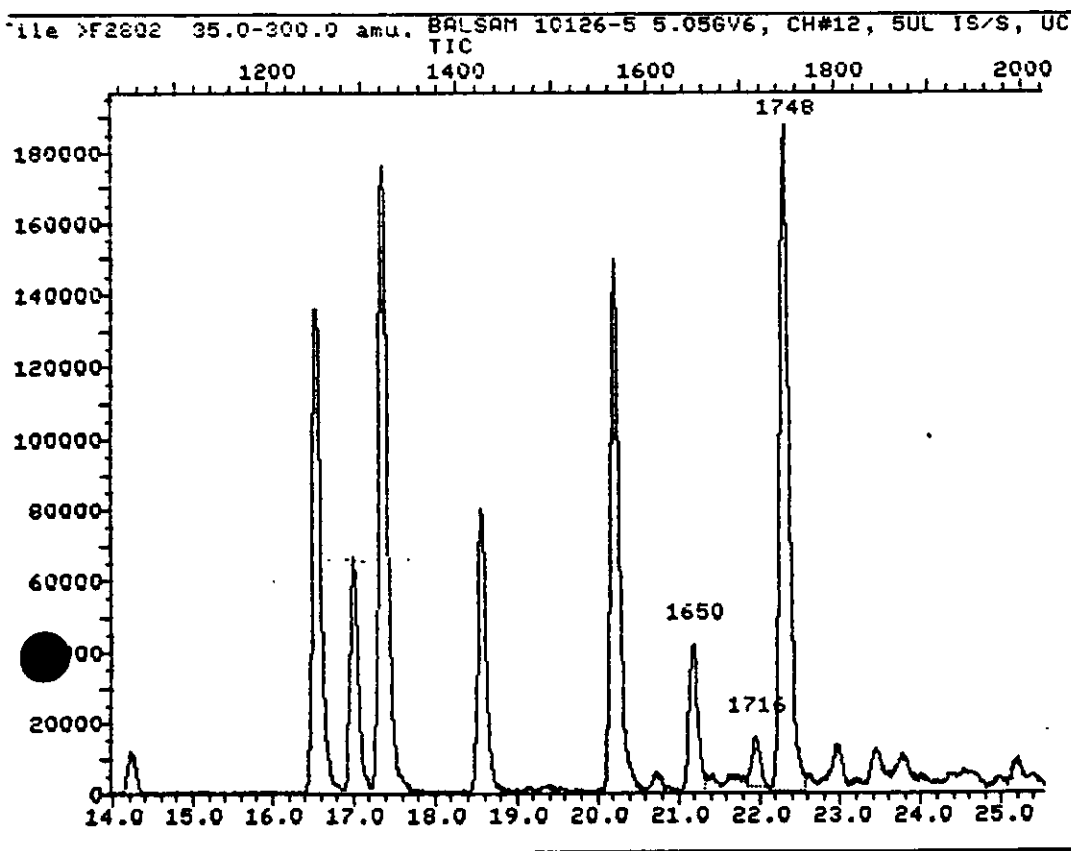


Concentration = Area / (Area + Conc. \* 100) \* Area \* 100

#	Prob.	Cont.	Int.	PT	PRT	Area	Height	Conc.	As Analyzed
			Std.					(UG/L)	
1	88	2	3	21.19	1.281	315346.	41537.	16.209	
2	12	50	3	21.26	1.328	100071.	14298.	8.144	
3	89	3	3	22.33	1.350	1469976.	186679.	25.556	



UCC-SB-B-16-3



000116

Standard Report

Date First: 01/12

Minimum separation of peaks and target: 5  
Minimum PIC peak area as % of est. PIC area: 40.  
Maximum PIC peak area as % of est. PIC area: 100.

#	Name	Concentration	Flag		
ID scan	ID area	PCRatio	PIC scan	PIC area	% Est. PIC
1	CI01 Bromochlorometh	50.000 UG/L	OK		
467.	84121.	7.135	466.	611868.	141.942
2	CI10 1,4-Difluoroben	50.000 UG/L	OK		
630.	400004.	2.395	630.	921127.	96.133
3	CI20 05-Chlorobenzen	50.000 UG/L	OK		
1251.	316820.	3.504	1251.	972777.	87.636

Deleting peaks from INT file: UDIR87

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

Number of peaks: 16

Number of peaks remaining: 15

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: 15

Number of peaks remaining: 3

Deleting all but largest peaks from INT file: UDIR87

Maximum number of peaks to keep: 15

Number of peaks: 3

Maximum number of peaks > number of peaks.

000117

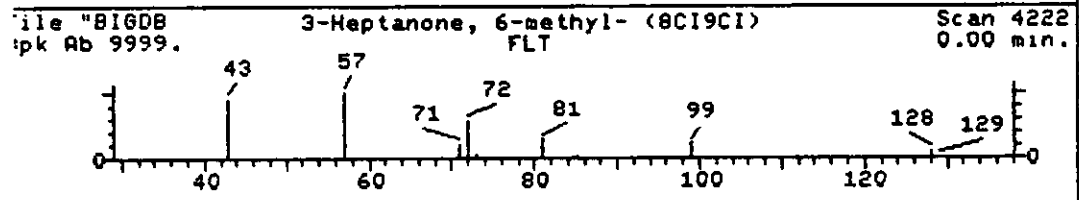
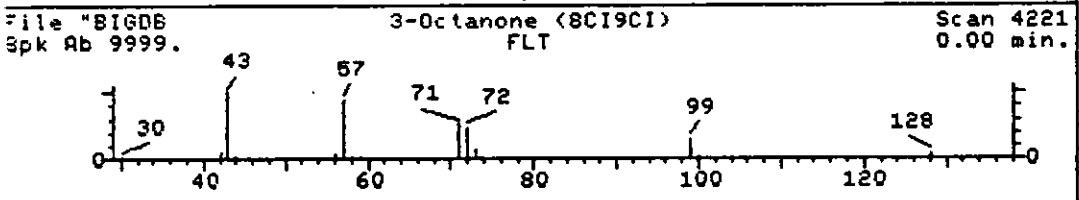
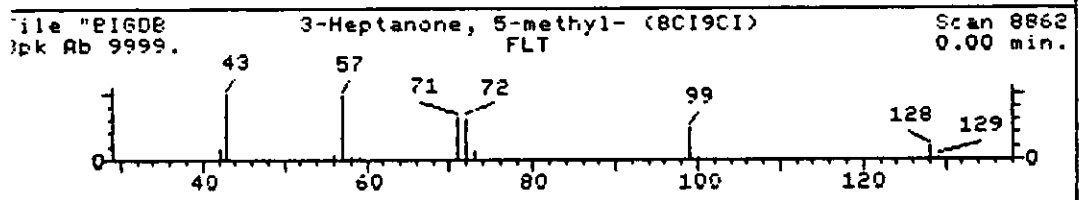
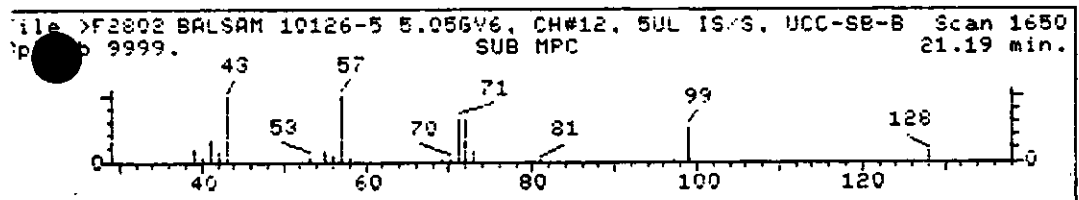
- 1. 3-Heptanone, 5-methyl- (8CI9CI)
- 2. 3-Heptanone, 6-methyl- (8CI9CI)
- 3. 3-Heptanone, 4-ethyl- (8CI9CI)
- 4. 3-Heptanone, 2,2-dimethyl- (8CI9CI)
- 5. 3-Heptanone, 5-methyl- (8CI9CI)
- 6. 3-Heptanone, 4-ethyl- (8CI9CI)

~~C<sub>8</sub>H<sub>16</sub>O  
Isomers  
D<sub>2</sub>OCS<sub>2</sub>~~

UCC-SB-B-16-3

Sample file: F2802 Spectrum #: 1650  
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 43

Prob.	CAS #	CON #	FOOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU	
1.	88*	541855	8862	"BIGDB	74	33	2	0	77	2	65	56
2.	79*	106683	4221	"BIGDB	55	44	2	0	99	8	48	32
3.	52*	624420	4222	"BIGDB	36	67	3	0	100	16	20	13
4.	25*	5405798	3989	"BIGDB	30	55	3	0	100	43	8	13
5.	25*	15726155	3992	"BIGDB	31	65	3	0	72	42	8	13
6.	25*	6137128	3990	"BIGDB	26	73	3	0	71	41	8	13

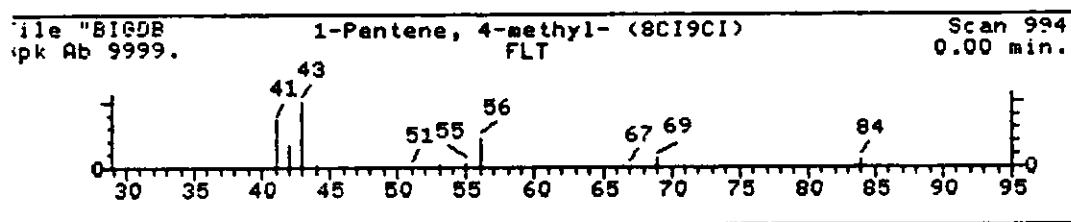
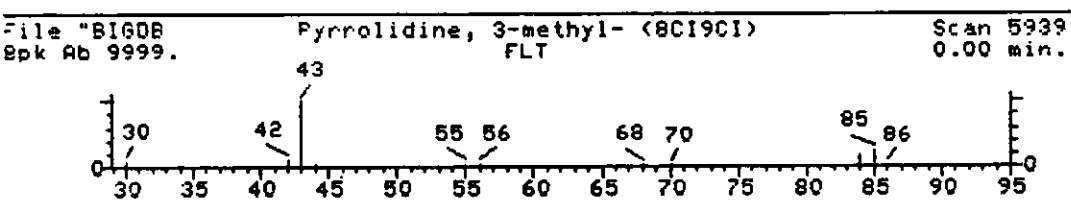
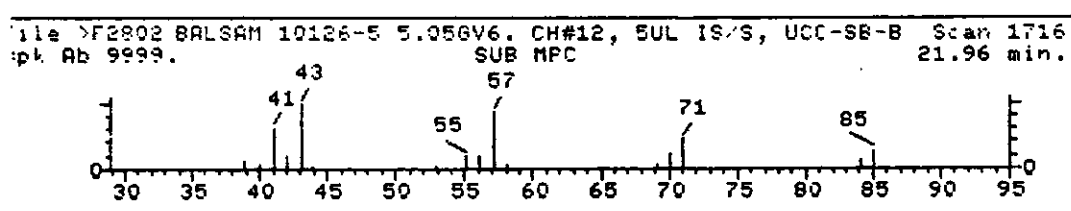


Unknown  
Success

Sample file: >F2802 Spectrum #: 1716  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	POOT	F	OK	#FLG	TILT	%	CON	C_I	R_10	
1.	15*	34375898	5939	"BIGDB	26	54	2	0	80	60	3	14
2.	11*	691372	994	"BIGDB	27	58	3	0	85	62	2	13

UCC-SB-B-16-3



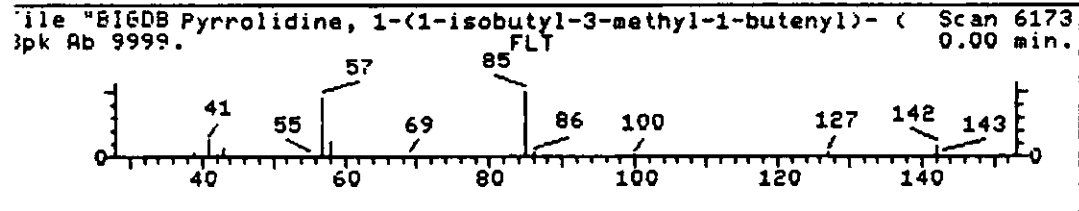
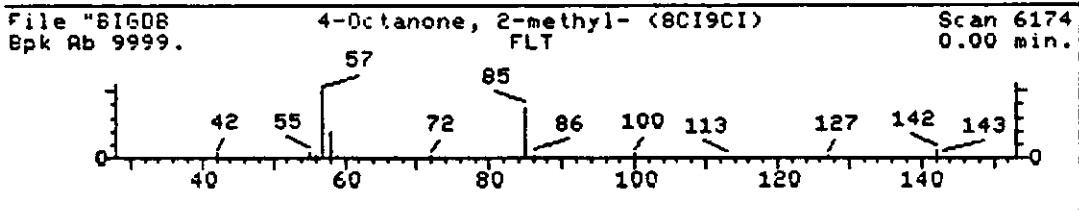
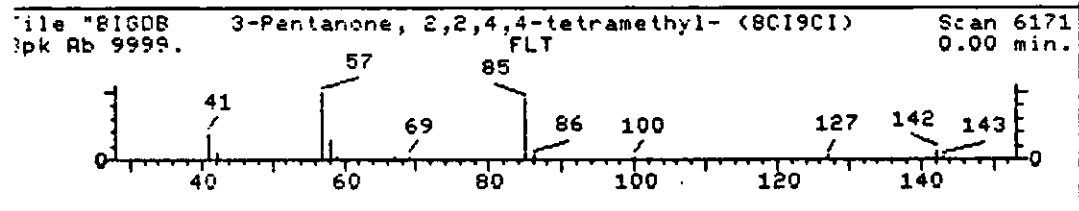
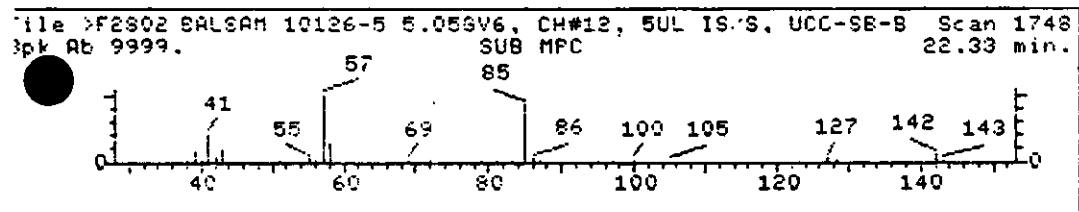
L. 7 known  
~~CALIF~~  
 IScm 13  
 22  
 10081

1. 4-Pentanone, 2-methyl- (8CI9CI)
2. 4-Octanone, 2-methyl- (8CI9CI)
3. 4-Heptanone, 2,6-dimethyl- (8CI9CI)
4. 4-Heptanone, 2,6-dimethyl- (8CI9CI)
5. 2-Pentanone (8CI9CI)

Sample file: F2802 Spectrum #: 1748  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	815247	6171	"BIGDB	74	19	1	0	76	3	66 70
2.	47*	7492388	6174	"BIGDB	37	55	2	0	68	22	17 18
3.	35	3494040	6173	"BIGDB	39	56	1	0	58	26	14 12
4.	25*	108838	6169	"BIGDB	27	57	2	0	47	46	7 14
5.	20*	107186	1235	"BIGDB	22	62	2	0	100	52	5 13

UCC-SB-B-16-3



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PC-1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 10126-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2753

Level: (low/med) LOW Date Received: 10/04/91

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91

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

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

CAS NO. COMPOUND 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	5	U
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)	3	J
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	2	J
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	2	J
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	10	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.

PC-1

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 10126-07  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2753  
Level: (low/med) LOW Date Received: 10/04/91  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91  
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
=====	=====	=====	=====	=====



NC

L LLI  
R-100691V6A

72752

2-But  
4-methyl  
-2-pentane

Prepared by: J Date: 100791 Data File: 100691  
Reviewed by: J Date: 100791 Page: 1  
Sample Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: BALSAM 10126-7 FML.  
Misc : V6, CH#01, SUL IS/S, UCC-PC-1 ✓  
Injected : 10/06/91 12:25 Units: UG/L  
Analyst: KERYLYNN Run Factor: 1.000 ✓  
ID File: MOBID6 Surrogate vol: .005  
Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2277	91.1	76 114
CS05 D8-Toluene	.2500	.2481	99.2 ✓	88 110
CS10 Bromofluorobenzene	.2500	.2411	96.4	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
	BDL		C030 Methylene Chloride
	BDL		CXXX Tert-butyl alcohol
412	2.667	2.7 J	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
486	1.661	1.7 J	C125 Vinyl Acetate
	BDL		C115 1,1,1-Trichloroethane —
	BDL		C120 Carbon Tetrachloride
	BDL		C165 Benzene
654	1.773	1.8 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

000123

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
1027	9.747	9.7	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)

Evaporative Quant Report

Data File: F27631.D6      Injected at: 12:25 10/30/91  
 Sample : 13:29 10/30/91  
 ID File : MOBID6.MT      Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *CI01 Bromochloromethane	7.20	7.20	.00	128.0	93385	1.0000	50.00
2) C010 Chloromethane	2.66	0.00	--	50.0	0	1.1144	0.00
3) C020 Vinyl Chloride	2.80	0.00	--	62.0	0	1.1573	0.00
4) C015 Bromomethane	3.18	0.00	--	94.0	0	1.1009	0.00
5) C025 Chloroethane	3.32	0.00	--	64.0	0	.7412	0.00
6) C045 1,1-Dichloroethene	4.29	0.00	--	96.0	0	1.4064	0.00
7) C035 Acetone	4.35	0.00	--	43.0	0	.1922	0.00
8) C040 Carbon Disulfide	4.58	4.58	.00	76.0	3418	4.2140	.43
9) C030 Methylene Chloride	4.91	4.91	.00	84.0	2739	1.7274	.85
10) CXXX Tert-butyl alcohol	5.07	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.29	0.00	--	96.0	0	1.7216	0.00
12) C055 Cis-1,2-dichloroethe	6.81	6.81	.00	96.0	9546	1.9165	2.67
13) CXXX Methyl tert-butyl et	5.29	0.00	--	73.0	0	2.9749	0.00
14) C050 1,1-Dichloroethane	5.89	5.90	.01	63.0	5881	3.2916	.96
15) C060 Chloroform	7.34	0.00	--	83.0	0	3.6900	0.00
16) C065 1,2-Dichloroethane	8.37	0.00	--	62.0	0	2.0979	0.00
17) C110 2-Butanone	6.81	0.00	--	72.0	0	.1333	0.00
18) CS15 D4-1,2-dichloroethan	8.23	8.24	.01	65.0	149451	1.7574	45.53
19) *CI10 1,4-Difluorobenzene	9.08	9.10	.03	114.0	499977	1.0000	50.00
20) C125 Vinyl Acetate	5.98	0.00	--	43.0	0	.5819	0.00
21) C115 1,1,1-Trichloroethan	7.68	7.67	.01	97.0	9202	.5540	1.66
22) C120 Carbon Tetrachloride	7.98	0.00	--	117.0	0	.4824	0.00
23) C165 Benzene	8.35	0.00	--	78.0	0	1.0182	0.00
24) C150 Trichloroethene	9.63	9.63	.00	130.0	7193	.4056	1.77
25) C140 1,2-Dichloropropane	10.10	0.00	--	63.0	0	.3950	0.00
26) C130 Bromodichloromethane	10.73	0.00	--	83.0	0	.6175	0.00
27) C175 2-Chloroethylvinylet	11.45	0.00	--	63.0	0	.2138	0.00
28) C143 Cis-1,3-Dichloroprop	11.77	0.00	--	75.0	0	.6058	0.00
29) C172 Trans-1,3-dichloropr	13.18	0.00	--	75.0	0	.4753	0.00
30) C160 1,1,2-Trichloroethan	13.65	0.00	--	97.0	0	.3200	0.00
31) C155 Dibromochloromethane	14.69	0.00	--	129.0	0	.5130	0.00
32) C180 Bromoform	18.89	0.00	--	173.0	0	.3269	0.00
33) *CI20 D5-Chlorobenzene	16.26	16.30	.05	117.0	380054	1.0000	50.00
34) CS05 D8-Toluene	12.42	12.39	.03	98.0	477999	1.2671	49.63
35) C205 4-Methyl-2-pentanone	12.16	0.00	--	43.0	0	.3665	0.00
36) C230 Toluene	12.56	0.00	--	92.0	0	.8674	0.00
37) C210 2-Hexanone	14.37	0.00	--	43.0	0	.2493	0.00
38) C220 Tetrachloroethene	13.98	13.97	.01	164.0	34564	.4665	9.75
39) C235 Chlorobenzene	16.38	0.00	--	112.0	0	1.0936	0.00
40) C240 Ethylbenzene	16.77	0.00	--	106.0	0	.5476	0.00
41) CXXX Xylenes (p)	17.13	0.00	--	106.0	0	.6560	0.00
42) CXXX Xylenes (o)	18.33	0.00	--	106.0	0	.6457	0.00
43) C245 Styrene	18.38	0.00	--	104.0	0	1.1380	0.00
44) C225 1,1,2,2-Tetrachloroe	20.56	0.00	--	83.0	0	.6669	0.00
45) CS10 Bromofluorobenzene	19.96	19.95	.01	95.0	272514	.7436	48.21
46) C335 Dichlorobenzene (m)	23.57	0.00	--	146.0	0	1.0945	0.00
47) C340 Dichlorobenzene (p)	23.86	0.00	--	146.0	0	.9985	0.00
48) C350 Dichlorobenzene (o)	25.11	25.07	.04	146.0	1528	1.0000	0.20
49) C250 Xylenes (total)	18.33	0.00	--	106.0	0	.6457	0.00

000125

Internal Standard Concentration

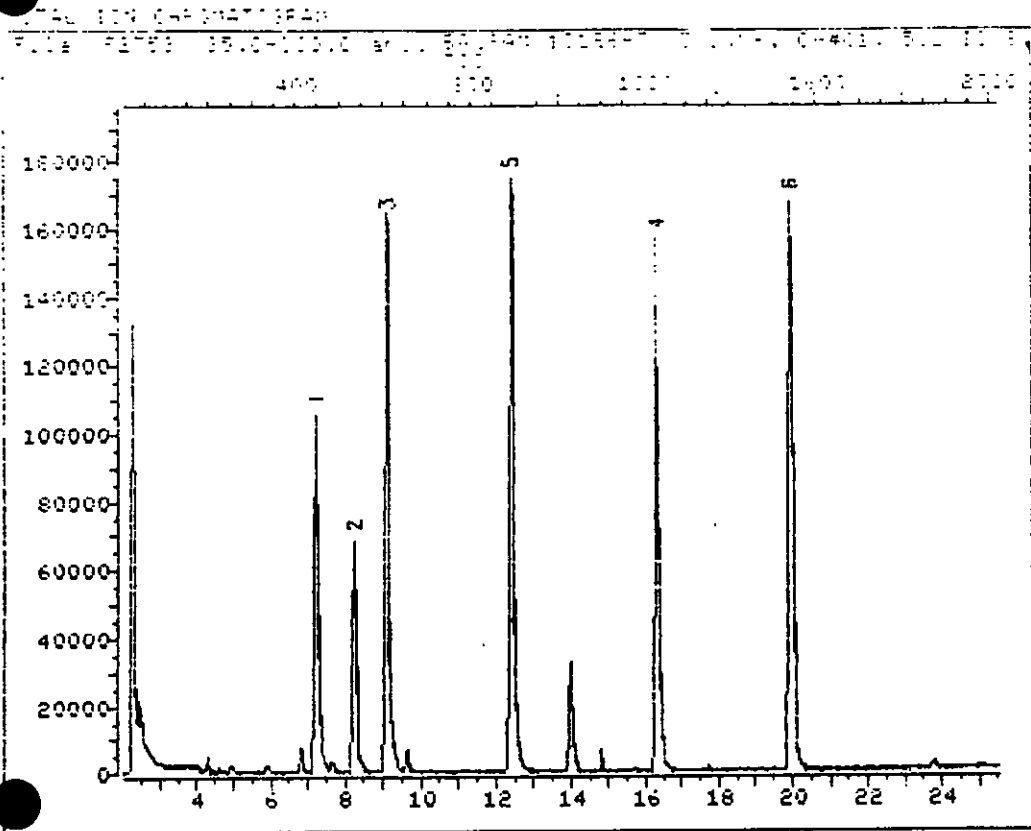
Sample: F2753 Date injected: 10 06 91 Standard: F2 91 ✓

Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	93385	87593	106.6
CI10 1,4-Difluorobenzene	499977	477342	104.7
CI20 O5-Chlorobenzene	380054	362068	105.0

% = (Sample Area/Std Area)\*100

\* Area outside limits

000126



Data File: >F2753::D6

Quant Output File: ^F2753::D7

Name: BALSAM 10126-7 5ML.

Instrument ID: U6

Misc: U6, CH#01, 5UL IS/S, UCC-PC-1

Id File: MOBID6::MT

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

Last Calibration: 910814 09:37

Last Qcal Time: 911006 10:30

Operator ID: KERYLYNN

Quant Time : 911006 13:39

Injected at: 911006 12:25

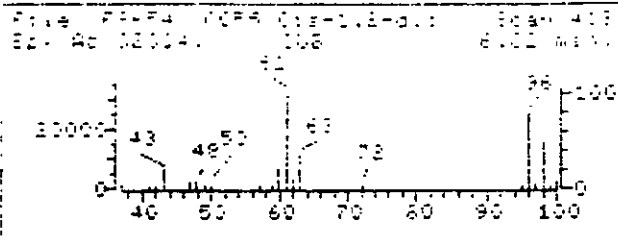
Operator ID: MPEYLMN      Quant Revt:      Quant Time: 9.10   9/13/99  
 Output File: MF2753:06      Injected at: 9.11   9/13/99  
 Data File: MF2753:06      Dilution Factor: 1.00000  
 Name: BALSAM 10126-7 5ML      Instrument ID: U6  
 Misc: U6, CH#01, 5UL IS/S, UCC-PC-1

ID File: MQE106:MT  
 Title: HSL VOLATILES: 75m x .93mm: DB624 U6 ERCC/ENSECO  
 Last Calibration: 910814 09:37      Last Cal Time: 911006 10:30

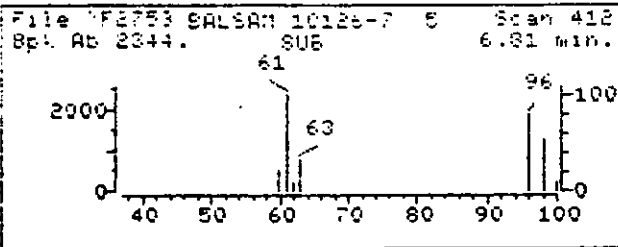
Compound	R.T.	Q ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.20	128.0	93385	50.00	UG/L	71
8) C040 Carbon Disulfide	4.58	76.0	3418	.434	UG/L	100
9) C030 Methylene Chloride	4.91	84.0	2739	.849	UG/L	83
12) C055 Cis-1,2-dichloroethene	6.81	96.0	9546	2.67	UG/L	87
14) C050 1,1-Dichloroethane	5.90	63.0	5881	.957	UG/L	100
18) CS15 D4-1,2-dichloroethane	8.24	65.0	149451	45.53	UG/L	88
19) *CI10 1,4-Difluorobenzene	9.10	114.0	499977	50.00	UG/L	100
21) C115 1,1,1-Trichloroethane	7.67	97.0	9202	1.66	UG/L	85
22) C150 Trichloroethene	9.63	130.0	7193	1.77	UG/L	90
33) *CI20 D5-Chlorobenzene	16.30	117.0	380054	50.00	UG/L	100
34) CS05 D8-Toluene	12.39	98.0	477999	49.63	UG/L	93
38) C220 Tetrachloroethene	13.97	164.0	34564	9.75	UG/L	89
45) CS10 Bromofluorobenzene	19.95	95.0	272514	48.21	UG/L	80
48) C350 Dichlorobenzene (o)	25.07	146.0	1528	.200	UG/L	100

\* Compound is ISTD

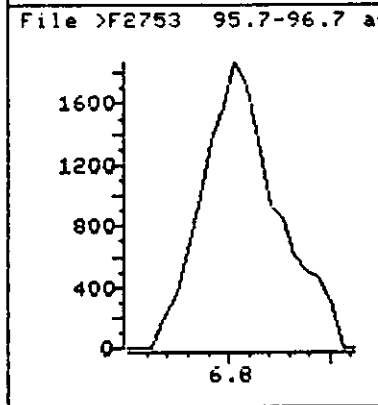
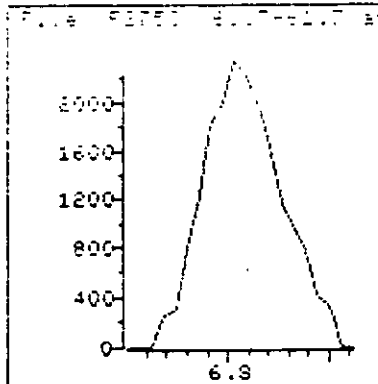
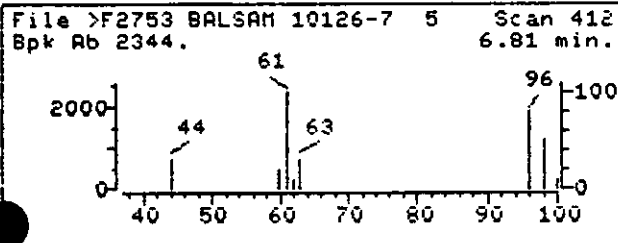
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



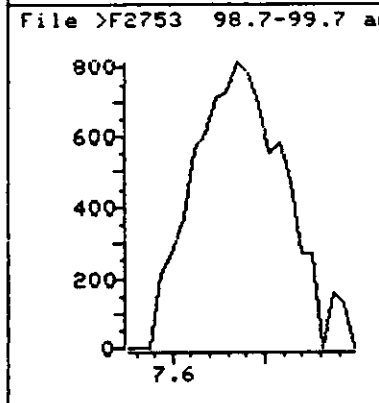
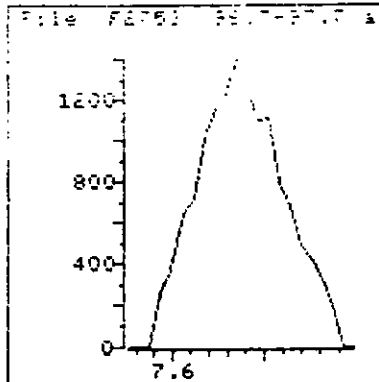
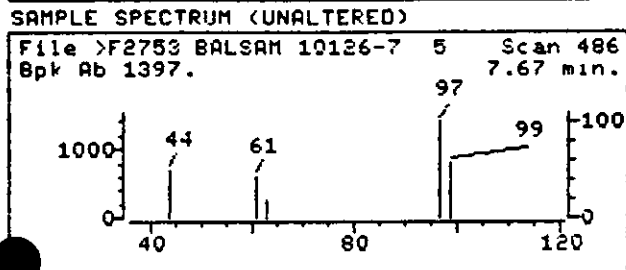
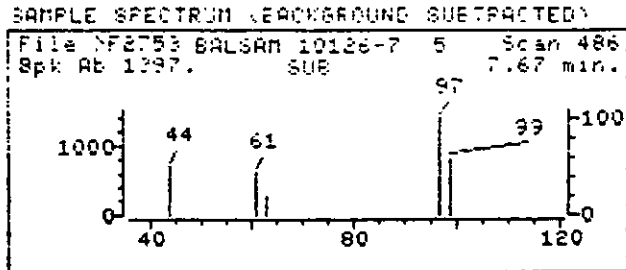
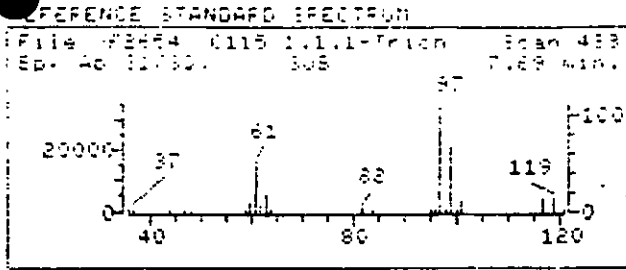
SAMPLE SPECTRUM (UNALTERED)



Data File: >F2753::D6  
 Name: BALSAM 10126-7 5ML.  
 Misc: U6, CH#01, 5UL IS/S, UCC-PC-1  
 Quant Time: 911006 13:39  
 Injected at: 911006 12:25  
 Last Qcal Time: 911006 10:30

Quant Output File: ^F2753::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 12  
 Compound Name : C055 Cis-1,2-dichloroethene  
 Scan Number : 412  
 Retention Time: 6.81 min.  
 Quant Ion : 96.0  
 Area : 9546  
 Concentration : 2.67 UG/L  
 q-value : 87



Data File: >F2753::D6  
 Name: BALSAM 10126-7 5ML.  
 Misc: U6, CH#01, SUL IS/S, UCC-PC-1  
 Quant Time: 911006 13:39  
 Injected at: 911006 12:25  
 Last Qcal Time: 911006 10:30

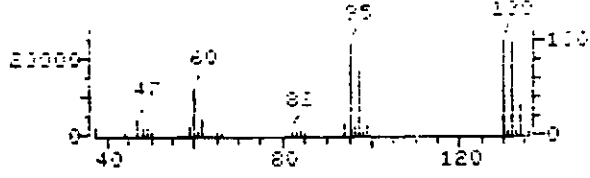
Quant Output File: ^F2753::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 21  
 Compound Name : C115 1,1,1-Trichloroethane  
 Scan Number : 486  
 Retention Time: 7.67 min.  
 Quant Ion : 97.0  
 Area : 9202  
 Concentration : 1.66 UG/L  
 q-value : 85

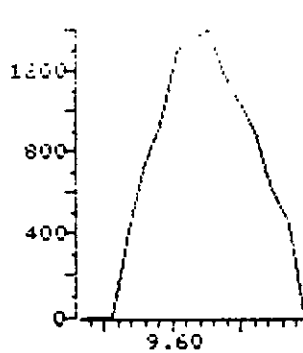


REFERENCE STANDARD SPECTRUM

File F153- C150 Trichloroethene Scan 654  
Bpk Ab 13076. SUB 9.64 min.

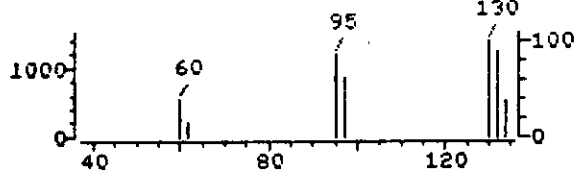


File F2753 131.7-132.7

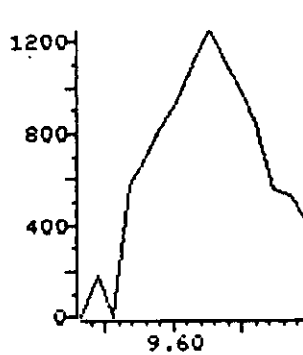


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >F2753 BALSAM 10126-7 5 Scan 654  
Bpk Ab 1397. SUB 9.63 min.

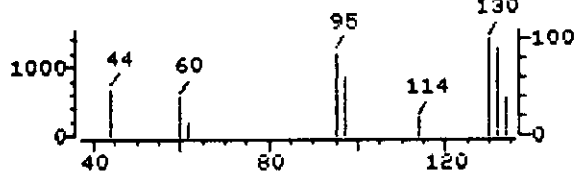


File >F2753 131.7-132.7



SAMPLE SPECTRUM (UNALTERED)

File >F2753 BALSAM 10126-7 5 Scan 654  
Bpk Ab 1397. SUB 9.63 min.

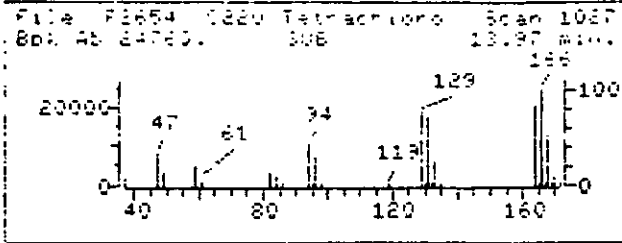


Data File: >F2753::D6  
Name: BALSAM 10126-7 5ML.  
Misc: U6, CH#01, 5UL IS/S, UCC-PC-1  
Quant Time: 911006 13:39  
Injected at: 911006 12:25  
Last Qcal Time: 911006 10:30

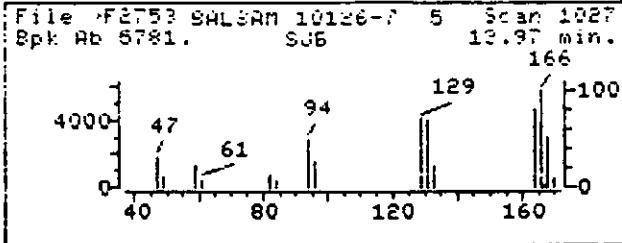
Quant Output File: ^F2753::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37

Compound No : 24  
Compound Name : C150 Trichloroethene  
Scan Number : 654  
Retention Time: 9.63 min.  
Quant Ion : 130.0  
Area : 7193  
Concentration : 1.77 UG/L  
q-value : 90

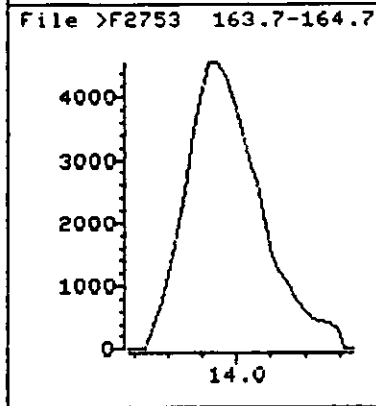
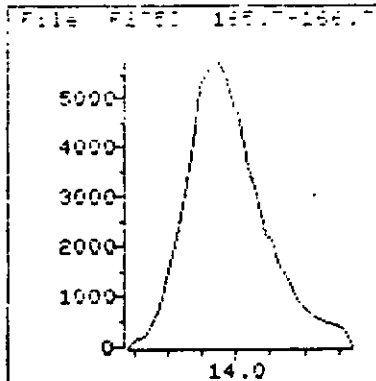
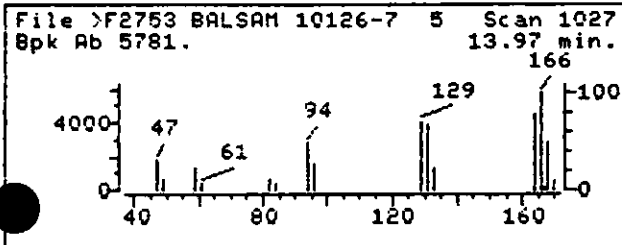
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2753::D6  
 Name: BALSAM 10126-7 5ML.  
 Misc: U6, CH#01, 5UL IS/S, UCC-PC-1  
 Quant Time: 911006 13:39  
 Injected at: 911006 12:25  
 Last Qcal Time: 911006 10:30

Quant Output File: ^F2753::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 38  
 Compound Name : C220 Tetrachloroethene  
 Scan Number : 1027  
 Retention Time: 13.97 min.  
 Quant Ion : 164.0  
 Area : 34564  
 Concentration : 9.75 UG/L  
 q-value : 89

Data Reduced by : J Date: 100791  
Data Reviewed by :     Date:    

Data File: >F2/55

Enseco IIL Report (page 1)

Sample: BALSAM 10126-7 5ML. Run Factor: 1.00  
Conditions: U6, LH#01, 5UL 15/5, ULC-PL-1 Analyst: KERYLYNN

Concentration  
In Sample

# Scan W L (UG/L ) LAS # Compound

*no unknowns*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-C-18-2

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2896

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 10 Date Analyzed: 10/11/91

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	140	J
67-64-1	-----Acetone	1400	U
75-15-0	-----Carbon Disulfide	680	U
75-35-4	-----1,1-Dichloroethene	680	U
75-34-3	-----1,1-Dichloroethane	680	U
540-59-0	-----1,2-Dichloroethene (total)	190	J
67-66-3	-----Chloroform	680	U
107-06-2	-----1,2-Dichloroethane	680	U
78-93-3	-----2-Butanone	1400	U
71-55-6	-----1,1,1-Trichloroethane	680	U
56-23-5	-----Carbon Tetrachloride	680	U
108-05-4	-----Vinyl Acetate	1400	U
75-27-4	-----Bromodichloromethane	680	U
78-87-5	-----1,2-Dichloropropane	680	U
10061-01-5	-----cis-1,3-Dichloropropene	680	U
79-01-6	-----Trichloroethene	680	U
124-48-1	-----Dibromochloromethane	680	U
79-00-5	-----1,1,2-Trichloroethane	680	U
71-43-2	-----Benzene	680	U
10061-02-6	-----trans-1,3-Dichloropropene	680	U
110-75-8	-----2-Chloroethylvinylether	1400	U
75-25-2	-----Bromoform	680	U
108-10-1	-----4-Methyl-2-Pentanone	1400	U
591-78-6	-----2-Hexanone	1400	U
127-18-4	-----Tetrachloroethene	680	U
79-34-5	-----1,1,2,2-Tetrachloroethane	680	U
108-88-3	-----Toluene	330	J
108-90-7	-----Chlorobenzene	680	U
100-41-4	-----Ethylbenzene	900	
100-42-5	-----Styrene	680	U
1330-20-7	-----Xylene (total)	6000	

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-C-18-2

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 10126-08  
 Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2896  
 Level: (low/med) MED Date Received: 10/04/91  
 % Moisture: not dec. 10 Date Analyzed: 10/11/91  
 Column (pack/cap) CAP Dilution Factor: 1.0

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

Number TICs found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H18 ISOMER	11.49	2200	J
2.	C8H18 ISOMER	11.84	1500	J
3.	OCTANE	12.95	2800	J
4.	C8H16 ISOMER	14.77	750	J
5.	C10H22 ISOMER	21.71	1400	J
6.	UNKNOWN	22.07	1300	J
7.	ETHYLMETHYLBENZENE ISOMER	22.73	1300	J

NC

L 100771 V011  
R-101091 V0B  
7F2856  
clean

Reduced by: J  
Reviewed by: R

Date: 10/19/91  
Date: 10-16-91

Data File: 7F2856  
Page: 1

Essex Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: RALS 10126-8 1000LX  
Misc : 06 CUI 50L 15/5 4.086/10ML 100891 UCL-5B-L-6-18-2  
Injected : 10/11/91 06:02 Units: 06/KG  
Analyst: KERYLYNN Run Factor: 125.000 ✓  
ID File: MUBID6 Surrogate vol: .500  
Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Surrogate Measured (ug)	% Recovery Measured	QC Limits
LS15 U4-1,2-dichloroethane	25.00	18.54	74.2	70 121
LS05 U8-toluene	25.00	21.55	86.2	81 117
LS10 Bromofluorobenzene	25.00	20.78	83.1	74 121

Target Compounds: MUBID6

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	C055 Acetone
249	1.009	(120) J	C040 Carbon Disulfide
		BDL	C030 Methylene Chloride
		BDL	CXXX tert-butyl alcohol
414	1.401	(170) J	C055 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	C145 Cis-1,3-Dichloropropene
		BDL	C172 Trans-1,3-dichloropropene
960	11.841	(1700) J	C160 1,1,2-Trichloroethane

RT off

000136

Scan #	Concentration Quant List UG/L	Sample UG/KG	Compound
		BDL	C155 Dibromochloromethane
		BDL	C180 Bromoform
		BDL	C205 4-Methyl-2-pentanone
907	2.415	500	C230 Toluene
		BDL	C210 2-Hexanone
		BDL	C220 Tetrachloroethene
		BDL	C235 Chlorobenzene
1266	6.620	810	C240 Ethylbenzene
1297	31.648	3900	CXXX Xylenes (p)
1401	9.134	1100	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)
1401	<del>9.520</del> 43.99	1100 541	C250 Xylenes (total)

pl  
10-16-91

Sample	Peak Found	Conc	Area	RF	Conc.		
1) *C101 Bromochloromethane	7.19	7.22	.07	128.0	1.8000	0.00	
2) C011 Chloromethane	7.57	0.00	--	62.0	1.7778	0.00	
3) C020 Vinyl Chloride	7.81	0.00	--	62.0	1.7778	0.00	
4) C018 Bromomethane	7.14	0.00	--	62.0	1.7778	0.00	
5) C026 Chloroethane	7.32	0.00	--	62.0	1.7778	0.00	
6) C038 1,1-Dichloroethane	4.29	0.00	--	96.0	1.9714	0.00	
7) C035 Acetone	4.36	0.00	--	43.0	1.2282	0.00	
8) C040 Carbon Disulfide	4.59	0.00	--	76.0	4.2994	0.00	
9) C030 Methylene Chloride	4.93	4.90	.03	84.0	3212	1.9489	1.01
10) CXXX Tert-butyl alcohol	5.09	0.00	--	59.0	0	.9770	0.00
11) C053 Trans-1,2-dichloroet	5.30	0.00	--	96.0	0	1.9080	0.00
12) C055 Cis-1,2-dichloroethe	6.82	6.82	.01	96.0	4672	2.0414	1.40
13) CXXX Methyl tert-butyl et	5.30	0.00	--	73.0	0	3.2861	0.00
14) C050 1,1-Dichloroethane	5.92	0.00	--	63.0	0	3.5944	0.00
15) C060 Chloroform	7.36	0.00	--	83.0	0	4.0227	0.00
16) C065 1,2-Dichloroethane	8.37	0.00	--	62.0	0	2.2965	0.00
17) C110 2-Butanone	6.83	0.00	--	72.0	0	.1243	0.00
18) CS15 D4-1,2-dichloroethan	8.24	8.24	.01	65.0	111998	1.8492	77.98
19) *C110 1,4-Difluorobenzene	9.18	9.09	.08	114.0	441858	1.0000	80.00
20) C125 Vinyl Acetate	5.98	0.00	--	43.0	0	.4990	0.00
21) C115 1,1,1-Trichloroethan	7.69	0.00	--	97.0	0	.9573	0.00
22) C120 Carbon Tetrachloride	7.97	0.00	--	117.0	0	.4441	0.00
23) C165 Benzene	8.36	0.00	--	79.0	0	.9866	0.00
24) C150 Trichloroethene	9.61	0.00	--	130.0	0	.4234	0.00
25) C140 1,2-Dichloropropane	10.10	0.00	--	63.0	0	.3961	0.00
26) C130 Bromodichloromethane	10.71	0.00	--	83.0	0	.5620	0.00
27) C175 2-Chloroethylvinylet	11.43	0.00	--	63.0	0	.1602	0.00
28) C143 Cis-1,3-Dichloroprop	11.74	0.00	--	75.0	0	.5458	0.00
29) C172 Trans-1,3-dichloropr	13.15	0.00	--	75.0	0	.4248	0.00
30) C160 1,1,2-Trichloroethan	13.60	13.18	.41	97.0	31141	.2976	11.84
31) C155 Dibromochloromethane	14.65	0.00	--	129.0	0	.4414	0.00
32) C180 Bromoform	18.82	0.00	--	173.0	0	.2534	0.00
33) *C120 D5-Chlorobenzene	16.40	16.29	.11	117.0	348220	1.0000	50.00
34) CS05 D8-Toluene	12.42	12.40	.01	98.0	366479	1.2209	43.10
35) C205 4-Methyl-2-pentanone	12.19	0.00	--	43.0	0	.3090	0.00
36) C230 Toluene	12.58	12.57	.01	92.0	13412	.7974	2.41
37) C210 2-Hexanone	14.37	0.00	--	43.0	0	.2092	0.00
38) C220 Tetrachloroethene	13.99	0.00	--	164.0	0	.4080	0.00
39) C235 Chlorobenzene	16.38	0.00	--	112.0	0	.9815	0.00
40) C240 Ethylbenzene	16.75	16.75	.00	106.0	23098	.5010	6.62
41) CXXX Xylenes (p)	17.12	17.11	.36	106.0	137381	.5010	39.38
42) CXXX Xylenes (p)	17.12	17.11	.37	106.0	23098	.6233	5.32
43) CXXX Xylenes (o)	18.31	18.32	.01	106.0	137381	.6233	31.65
44) C245 Styrene	18.35	18.33	.02	104.0	37382	.5877	9.13
45) C225 1,1,2,2-Tetrachloroe	20.53	0.00	--	83.0	1441	1.0250	.20
46) CS10 Bromofluorobenzene	19.95	19.96	.01	95.0	0	.5339	0.00
47) C335 Dichlorobenzene (m)	23.50	0.00	--	146.0	213248	.7366	41.57
48) C340 Dichlorobenzene (p)	23.82	0.00	--	146.0	0	.8135	0.00
49) C350 Dichlorobenzene (o)	25.04	0.00	--	146.0	0	.7400	0.00
50) C250 Xylenes (total)	17.12	17.11	.36	106.0	0	.7841	0.00

000138



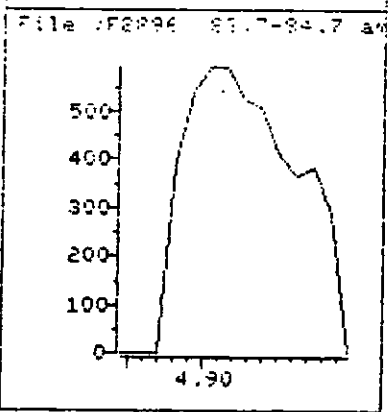
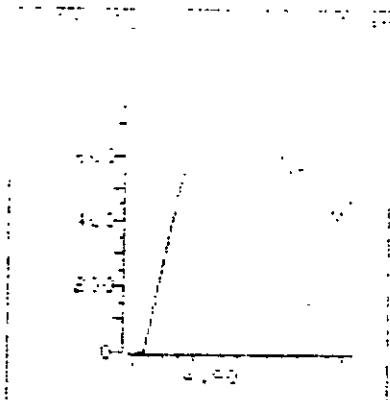
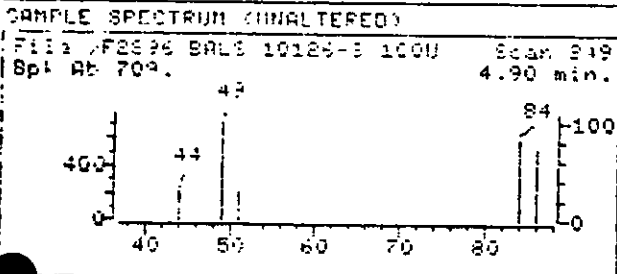
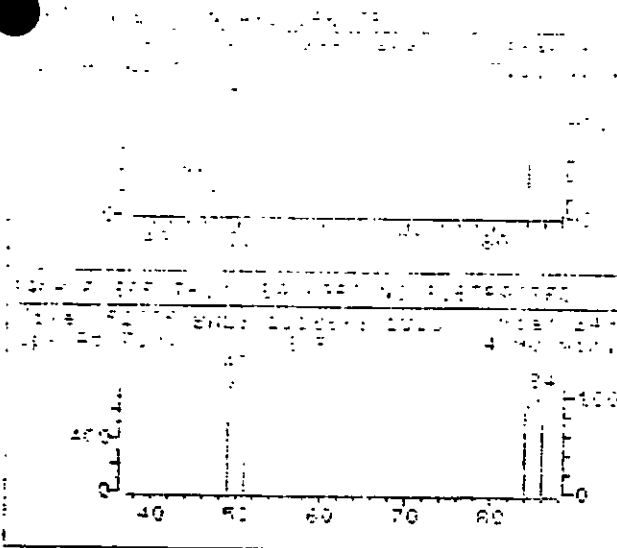
... ..  
... ..  
... ..

Chemical Name	Area 1	Area 2	Area 3
0101 2,4-Dichlorobenzene	81001	87810	110.4
0102 1,4-Dichlorobenzene	110000	110001	110.4
0103 2,5-Dichlorobenzene	310000	310021	110.4

\* = Sample Area 1 to Area 100  
 \* Area outside limits







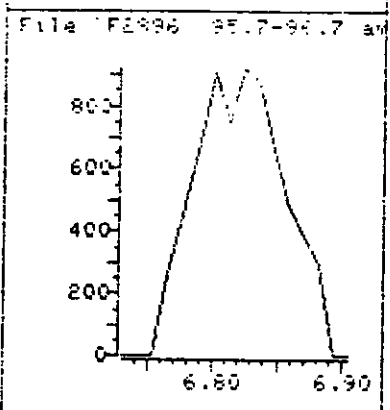
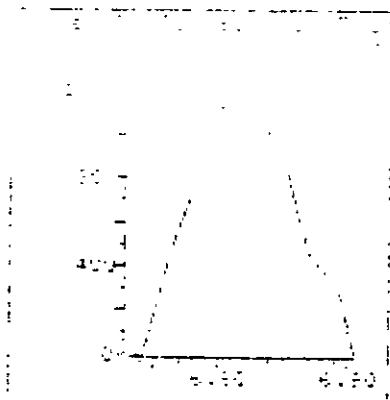
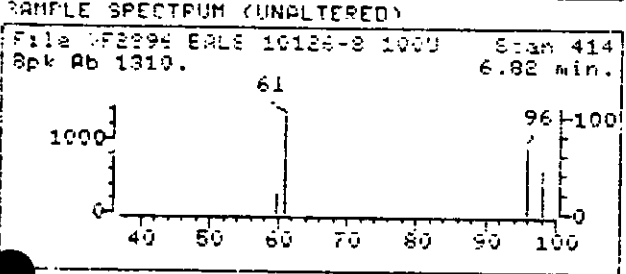
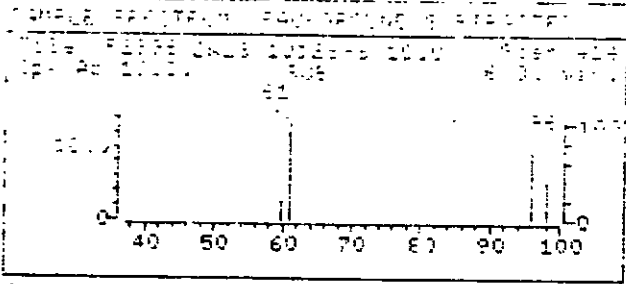
Data File: ^F2896::06  
 Name: BALS 10126-8 100ULX  
 Misc: U6 C01 50L IS/S 4.086/10ML 100891 UCC-98-6-18-2  
 Quant Time: 911011 06:29  
 Injected at: 911011 06:02  
 Last Qcal Time: 911010 22:48

Quant Output File: ^F2896::07  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 9  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 249  
 Retention Time: 4.90 min.  
 Quant Ion : 84.0  
 Area : 3212  
 Concentration : 1.01 UG/L  
 q-value : 76

*K 10/23/91*

42 50 60 70 80 90 100  
 42 50 60 70 80 90 100

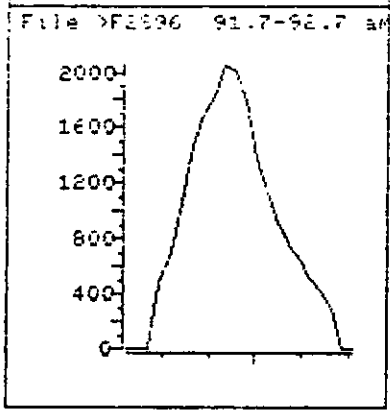
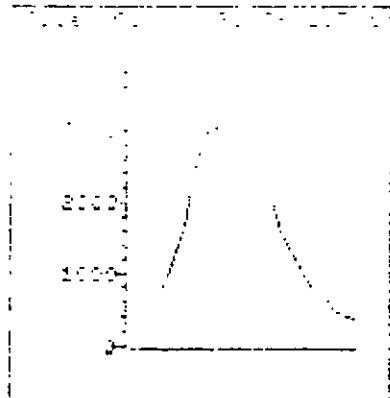
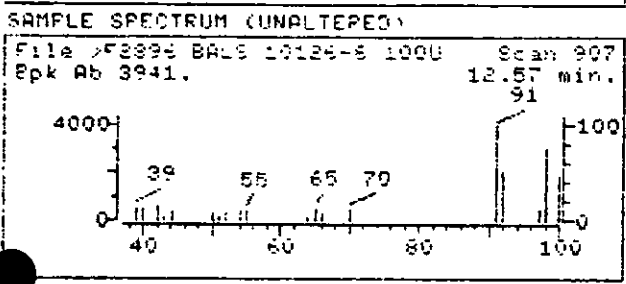
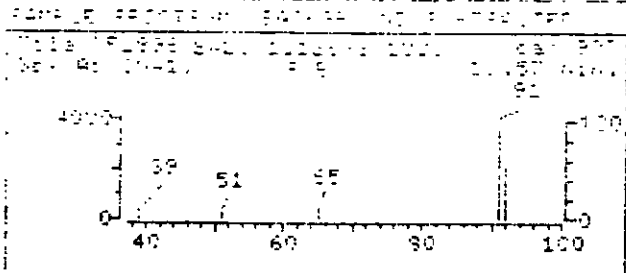
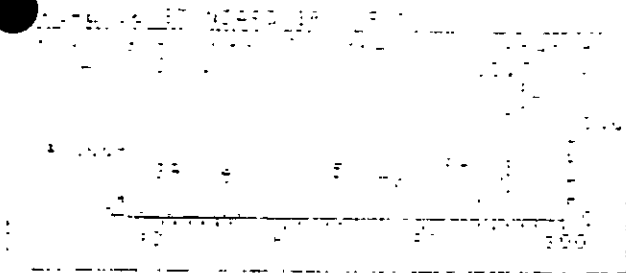


Data File: ^F2896::D6  
 Name: SALS 10126-8 100ULX  
 Misc: U6 C01 5UL IS/S 4.08G/10ML 100891 UCC-SB-6-18-2  
 Quant Time: 911011 06:29  
 Injected at: 911011 06:02  
 Last Qcal Time: 911010 22:48

Quant Output File: ^F2896::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

*10/23/91*

Compound No : 12  
 Compound Name : C055 Cis-1,2-dichloroethene  
 Scan Number : 414  
 Retention Time: 6.82 min.  
 Quant Ion : 96.0  
 Area : 4672  
 Concentration : 1.40 UG/L  
 q-value : 99

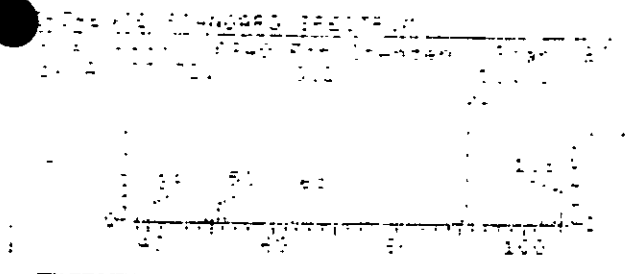


Data File: >F2896::06  
 Name: BALS 10126-8 100ULX  
 Misc: U6 C01 5UL IS/S 4.08G/10ML 100891 UCC-SB-2-6-18-2  
 Quant Time: 911011 06:29  
 Injected at: 911011 06:02  
 Last Qual Time: 911010 22:48

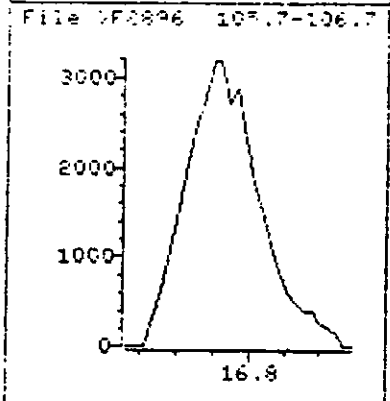
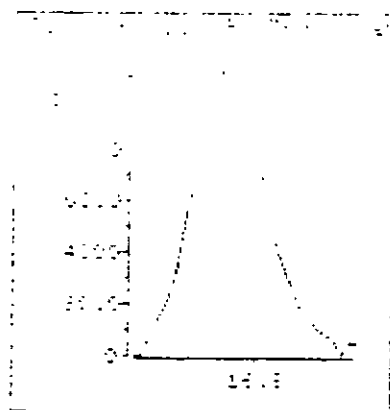
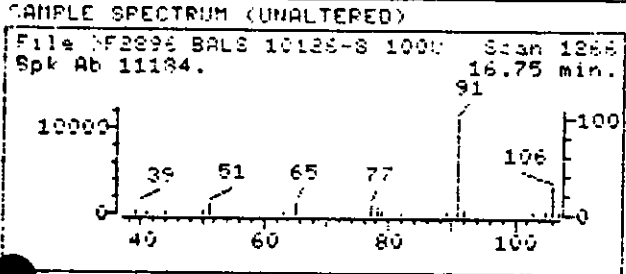
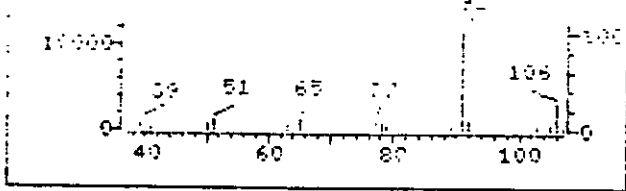
Quant Output File: ^F2896::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 36  
 Compound Name : C230 Toluene  
 Scan Number : 907  
 Retention Time: 12.57 min.  
 Quant Ion : 92.0  
 Area : 13412  
 Concentration : 2.41 UG/L  
 q-value : 96

*u 10/23/91*



File: ^F2896 BALS 10126-8 1000 Scan 1266  
 Spk Ab 11184. 16.75 min.



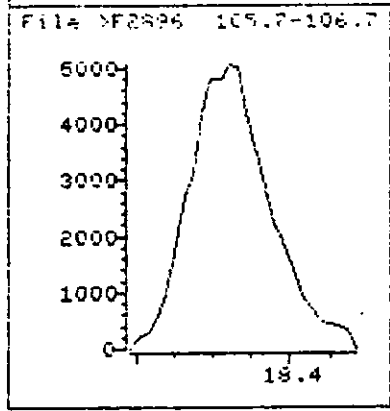
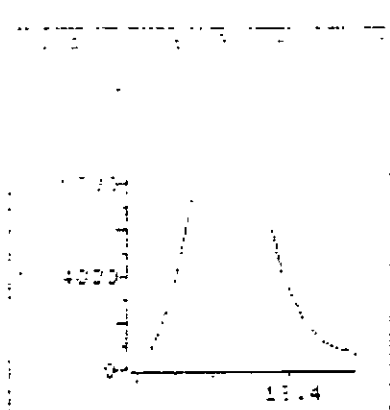
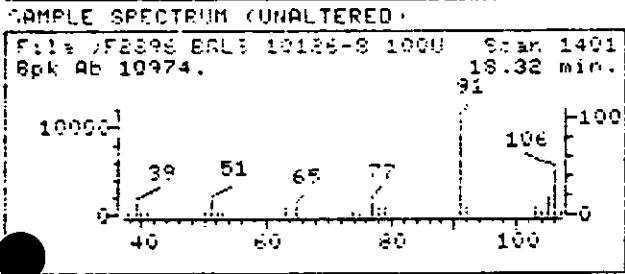
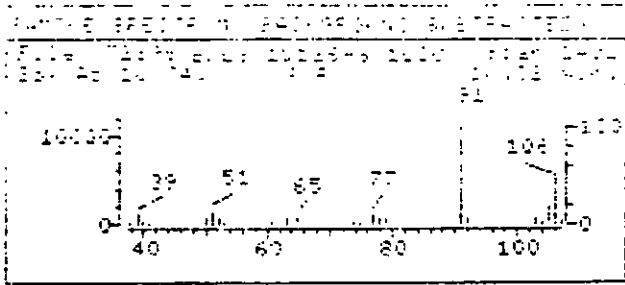
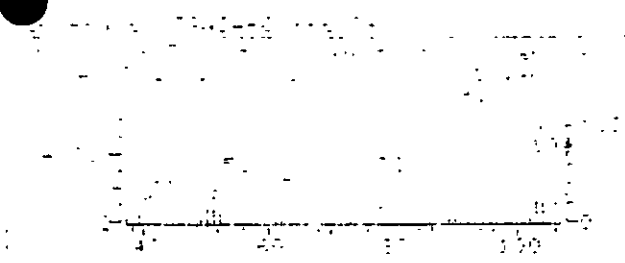
Data File: ^F2896::06  
 Name: BALS 10126-8 100BLX  
 Misc: U6 C01 5UL IS/S 4.08G/1UML 100891 UCC-SB-~~6~~-18-2  
 Quant Time: 911011 06:29  
 Injected at: 911011 06:02  
 Last Qual Time: 911010 22:48

Quant Output File: ^F2896::07  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

*U 10/23/91*

Compound No : 40  
 Compound Name : C240 Ethylbenzene  
 Scan Number : 1266  
 Retention Time: 16.75 min.  
 Quant Ion : 106.0  
 Area : 23098  
 Concentration : 6.62 UG/L  
 q-value : 97





Data File: ^F2896::D6  
Name: BALS 10126-8 100ULX  
Misc: U6 C01 5UL IS/S 4.08G/10ML 100891 UCC-SB-~~Z~~-6-18-2  
Quant Time: 911011 06:29  
Injected at: 911011 06:02  
Last Qual Time: 911010 22:48

Quant Output File: ^F2896::D7  
Instrument ID: U6  
Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37

Compound No : 49  
Compound Name : C250 Xylenes (total)  
Scan Number : 1401  
Retention Time: 18.32 min.  
Quant Ion : 106.0  
Area : 37141  
Concentration : ~~9.32~~ UG/L  
q-value : 90 **43.99**

*U 10126-8*

*70  
10-16-91*

101191  
 10-16-91

133  
 10-16-91

Sample: 2408 10126-3 1000L  
 Conditions: 10 101 0.1 10 5 4.024 1000 1 10 1000 1000 1000

UCC-SB-18-2

Concentration  
 In Sample

# Scan	U	C	UG/L	Ex#	Compound
1	815.	10	(1968)	500-27-9	<del>Heptane, 2-methyl</del> <sup>C<sub>8</sub>H<sub>18</sub> isomer</sup> ✓
2	845.	11	(1353)	509-01-1	<del>Heptane, 3-methyl</del> unknown C <sub>8</sub> H <sub>18</sub> isomer
3	940.	20	(2460)	111-66-9	<del>Octane (DOT)</del> ✓
4	1096.	5.4	(664.2)	678-91-7	<del>Cyclohexene, ethyl</del> <sup>C<sub>8</sub>H<sub>16</sub> isomer</sup> unknown alkane
5	1692.	9.9	(1218)	111-84-2	<del>Nonane</del> unknown alkane C <sub>10</sub> H <sub>22</sub> isomer
6	1723.	9.9	(1218)	815-24-7	<del>3-pentanone, 2,2,4,4-tetramethyl-</del> unknown
7	1779.	9.6	(1181)	611-14-3	<del>Benzene, 1-ethyl-2-methyl-</del> <sup>ethylmethylbenzene isomer</sup> C <sub>9</sub> H <sub>12</sub> isomer

10-16-91

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	Int.							
#	Pr. No.	Cont.	Int. Gr.	Pr	F-T	Area	Height	As Analyzed
1	89	1	2	11.40	1.264	375364.	74810.	15.827
2	91	2	2	11.91	1.302	399266.	81770.	13.877
3	95	0	3	12.49	1.395	411374.	86846.	20.119
4	97	11	3	14.71	1.905	111439.	16467.	5.470
5	70	8	3	21.71	1.333	203379.	27755.	9.746
6	81	7	3	22.07	1.355	201716.	25851.	9.835
7	56	33	3	22.73	1.395	197233.	26563.	9.646

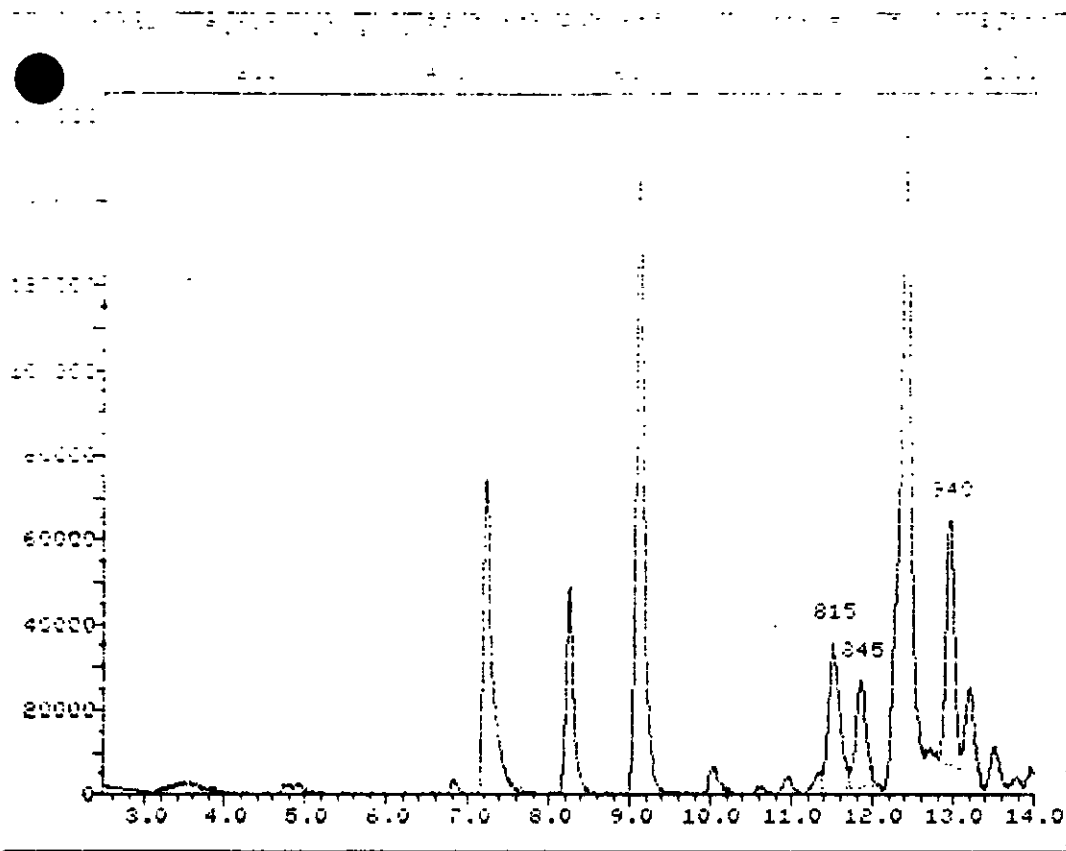
Total peak area = 570069.0000  
 Total peak area as % of total = 100.0000  
 Total peak area as % of total = 100.0000

#	Name	Concentration	Flag			
Retention	Area	Ratio	Score	Area	% Est.	Score
1	0101 Bromochloroaceth	50.000 UG/L	OK			
448.	91661.	6.997	448.	570069.	99.911	
2	0110 1,4-Difluoroben	50.000 UG/L	OK			
609.	441858.	2.300	609.	1014653.	99.851	
3	0120 06-Chlorobenzen	50.000 UG/L	OK			
1227.	348220.	3.615	1227.	1022365.	81.221	

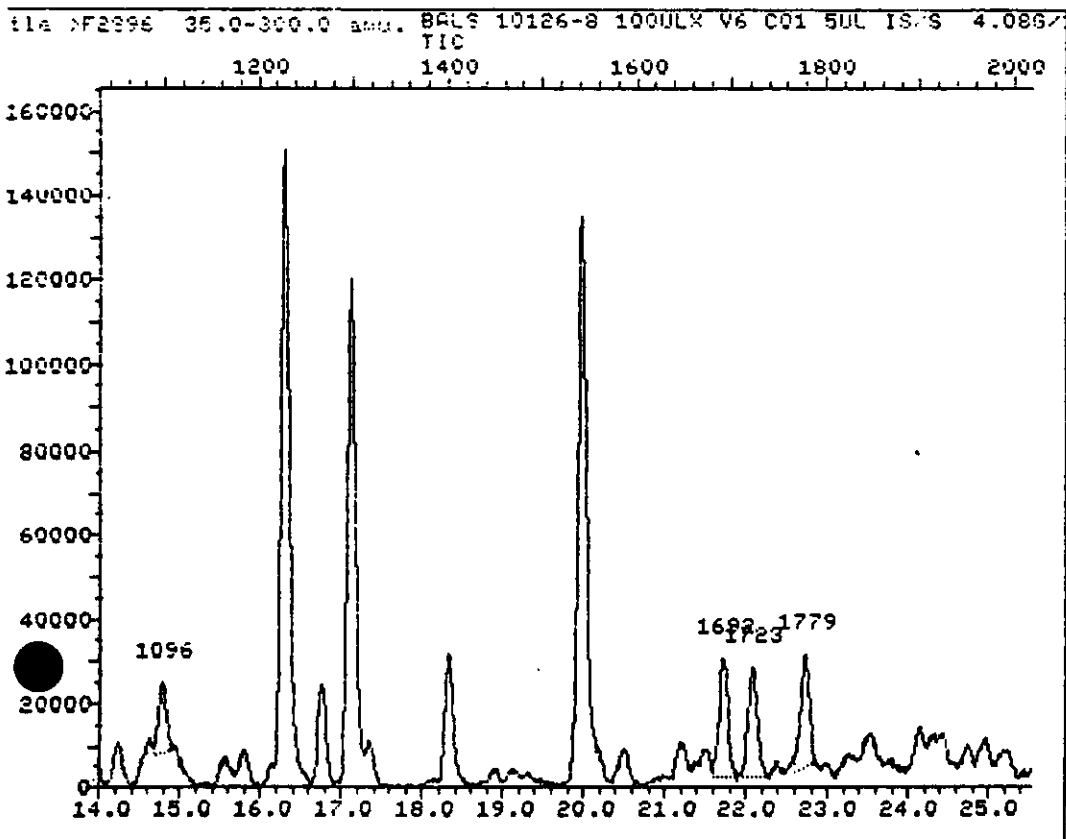
deleting peaks from INT file: UDIR87  
 Minimum area: 10 % of area of closest Int. Std.  
 Number of peaks: 18  
 Number of peaks remaining: 17

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: 17  
 Number of peaks remaining: 7

deleting all but largest peaks from INT file: UDIR87  
 Maximum number of peaks to keep: 15  
 Number of peaks: 7  
 Maximum number of peaks > number of peaks.



VCC - SB - C - 18 - 2.

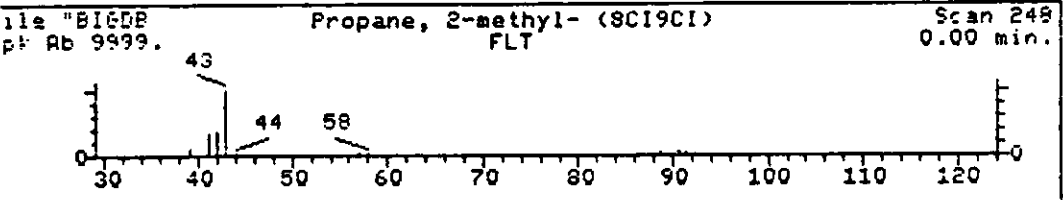
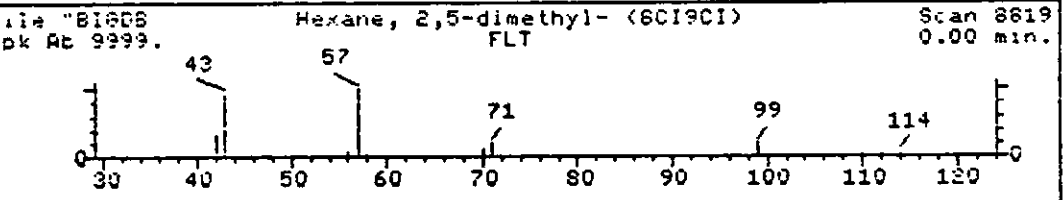
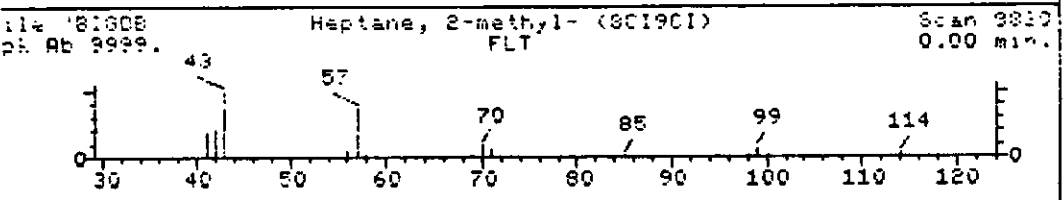
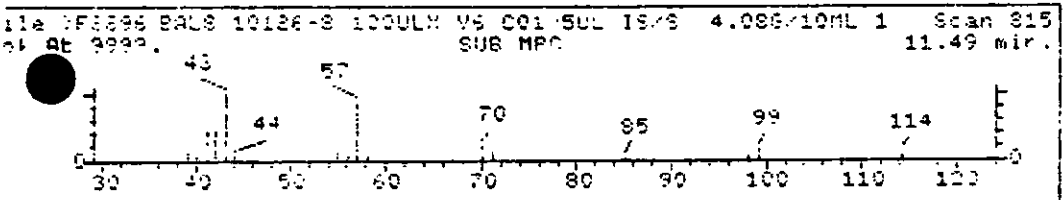


000151

Sample Area: 9999 Scan: 815  
 Search Speed: 2 Tilt: 5 No. of ion ranges searched: 48

Peak	Prob.	CAS #	CON #	PGT	R	DI	#CLS	TIME	%	CON	DI	PLI
1.	99*	592278	8820	"BIGDB	71	22	2	0	100	1	66	50
2.	52*	592132	8819	"BIGDB	38	52	2	0	79	17	20	19
3.	26*	75285	248	"BIGDB	27	42	0	0	100	49	7	19
4.	24	6898711	3662	"BIGDB	37	48	2	0	70	42	8	12
5.	15*	7493585	3873	"BIGDB	20	51	2	0	100	59	3	13
6.	11*	762629	1183	"BIGDB	26	50	3	0	82	64	2	13

UCC-SB-C-18-2



✓ JG 10/19/91  
 C<sub>8</sub>H<sub>18</sub> Isomer  
 el

1. Sample name: 1-ethyl-3-cyanobenzene (9810)  
 2. Sample weight: 0.1000 g  
 3. Sample volume: 0.1000 mL  
 4. Sample concentration: 1.0000 g/mL  
 5. Sample purity: 100.00%  
 6. Sample date: 1-18-2018

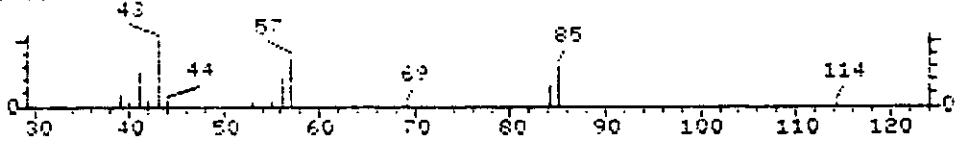
1. Sample name: 1-ethyl-3-cyanobenzene (9810)  
 2. Sample weight: 0.1000 g  
 3. Sample volume: 0.1000 mL  
 4. Sample concentration: 1.0000 g/mL  
 5. Sample purity: 100.00%  
 6. Sample date: 1-18-2018

Sample title: 1-ethyl-3-cyanobenzene (9810)      Spectrum #: 9810  
 Search speed: 2      Tilting option: E      No. of ion ranges searched: 1

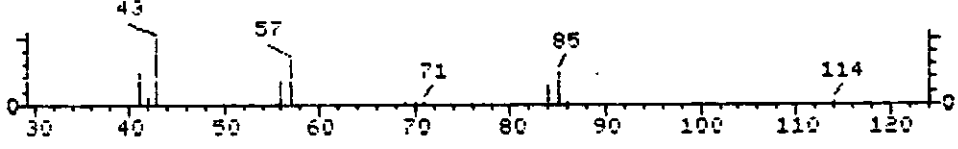
Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV	
1.	87*	589811	5911	"BIGDB	55	36	2	0	100	5	63	41
2.	70*	589435	5910	"BIGDB	35	63	3	0	100	7	42	13
3.	24*	619998	5913	"BIGDB	22	68	3	0	100	45	8	12
4.	20*	691372	994	"BIGDB	29	56	3	0	67	53	5	13
5.	20*	34375898	5939	"BIGDB	20	60	2	0	94	55	5	13
6.	15*	765435	5685	"BIGDB	24	56	3	0	83	60	3	12

UCC-SB-C-18-2

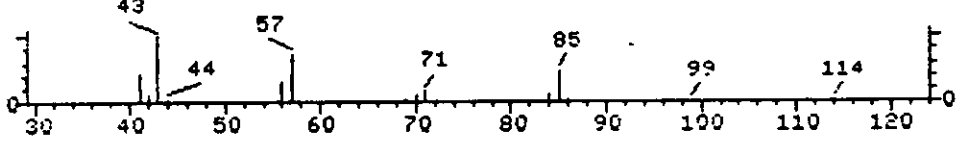
File "BIGDB"      Scan 945  
 1-ethyl-3-cyanobenzene (9810)      11.84 min.  
 1.0000 g/mL      1.0000 g/mL



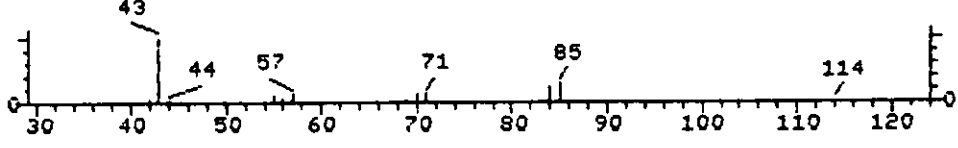
File "BIGDB"      Scan 5911  
 Heptane, 3-methyl- (80190)      0.00 min.  
 1.0000 g/mL      1.0000 g/mL



File "BIGDB"      Scan 5910  
 Hexane, 2,4-dimethyl- (80190)      0.00 min.  
 1.0000 g/mL      1.0000 g/mL



File "BIGDB"      Scan 5913  
 Hexane, 3-ethyl- (80190)      0.00 min.  
 1.0000 g/mL      1.0000 g/mL



✓ C8H15 isomer  
 Unknown  
 JG 10/11/91

- a. Ethane, 1,1-difluoro-
- b. Ethane, 1,1,1-trifluoro-
- c. Ethane, 1,1,2-trifluoro-
- d. Ethane, 1,1,2,2-tetrafluoro-
- e. Ethane, 1,1,2,2,3-pentafluoro-
- f. Ethane, 1,1,2,2,3,3-hexafluoro-
- g. Ethane, 1,1,2,2,3,3,4-heptafluoro-
- h. Ethane, 1,1,2,2,3,3,4,4-octafluoro-
- i. Ethane, 1,1,2,2,3,3,4,4,5-nonafluoro-
- j. Ethane, 1,1,2,2,3,3,4,4,5,6-decafluoro-
- k. Ethane, 1,1,2,2,3,3,4,4,5,6,7-undecafluoro-
- l. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8-dodecafluoro-
- m. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9-tridecafluoro-
- n. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10-tetradecafluoro-
- o. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11-pentadecafluoro-
- p. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12-hexadecafluoro-
- q. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13-heptafluoro-
- r. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14-octafluoro-
- s. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15-nonafluoro-
- t. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16-decafluoro-
- u. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17-undecafluoro-
- v. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-dodecafluoro-
- w. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-tridecafluoro-
- x. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-tetradecafluoro-
- y. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-pentadecafluoro-
- z. Ethane, 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-hexadecafluoro-

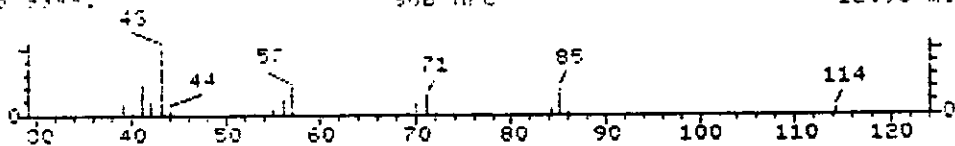
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130

Sample #: 9999 Spectrum #: 920  
 Search speed: 2 Tilt option: S No. of ion ranges searched: 12

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I	
1.	95*	111659	6064	"BIGDB	81	12	1	0	91	0	72	93
2.	60	2213232	5920	"BIGDB	49	43	1	0	92	15	30	18
3.	49*	589435	5910	"BIGDB	46	52	2	0	66	24	22	21
4.	44	591764	6010	"BIGDB	45	41	2	0	99	23	17	15
5.	40*	619998	5913	"BIGDB	34	56	2	0	100	28	14	17
6.	32*	17257817	5933	"BIGDB	36	38	2	0	96	37	10	18

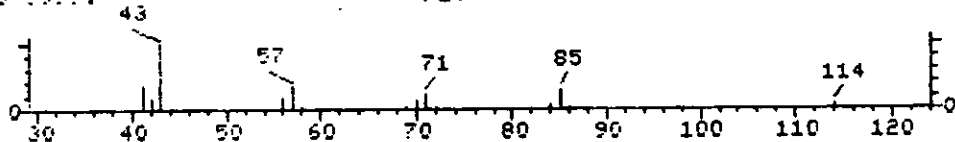
UCC-58-C-18-2

File # 9999 BALS 10126-9 1000LX WS 001 SUL ISRS 4.096-10ML 1 Scan 940  
 Ab 9999. SUB MPC 12.95 min.

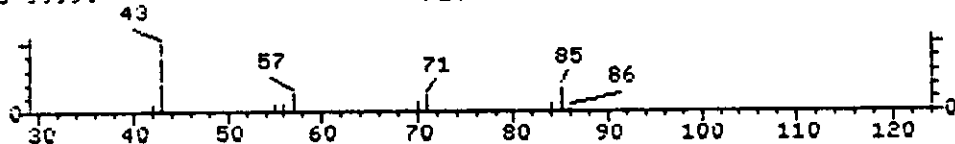


✓ 39 10/19/1

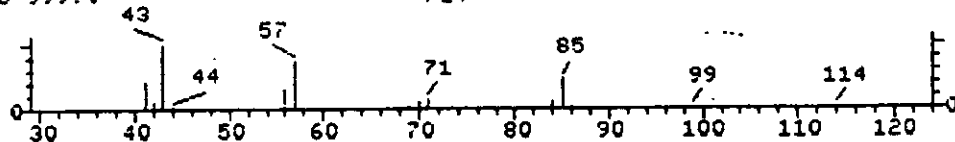
File # "BIGDB" Octane (DOT) (8C19CI) Scan 6064  
 Ab 9999. FLT 0.00 min.



File # "BIGDB" Heptane, 2,4-dimethyl- (8C19CI) Scan 5920  
 Ab 9999. FLT 0.00 min.



File # "BIGDB" Hexane, 2,4-dimethyl- (8C19CI) Scan 5910  
 Ab 9999. FLT 0.00 min.



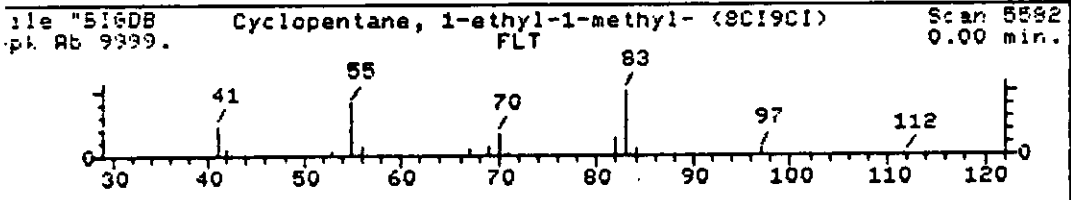
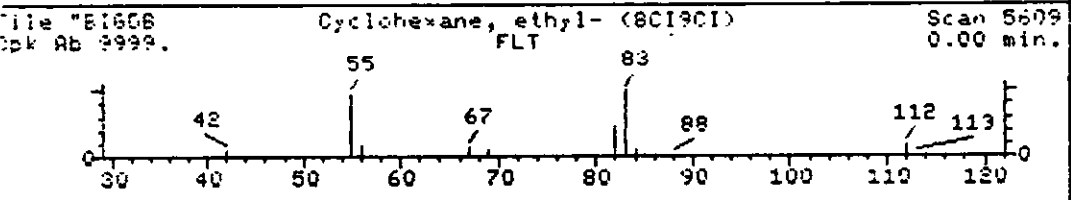
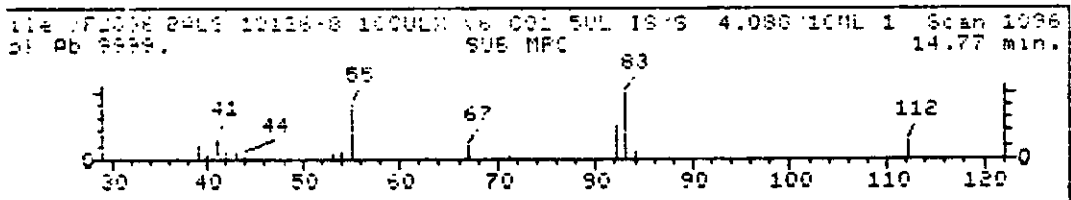


Search speed: 2      Training option: B      No. of ion ranges searched: 47

Peak #	Retention Time (min)	Abundance	Mass	Scan #	Height	Area	Width	Height	Area	Width		
1.	6.0	1678917	5509	"E1608	37	62	3	0	84	11	30	17
2.	6.2	16747605	5580	"E1609	27	77	3	0	98	19	20	13

UCC - SB - C - 18 - 2

*C<sub>8</sub>H<sub>16</sub> isomer*  
*Unknown alkane*  
*JG 10/11/91*



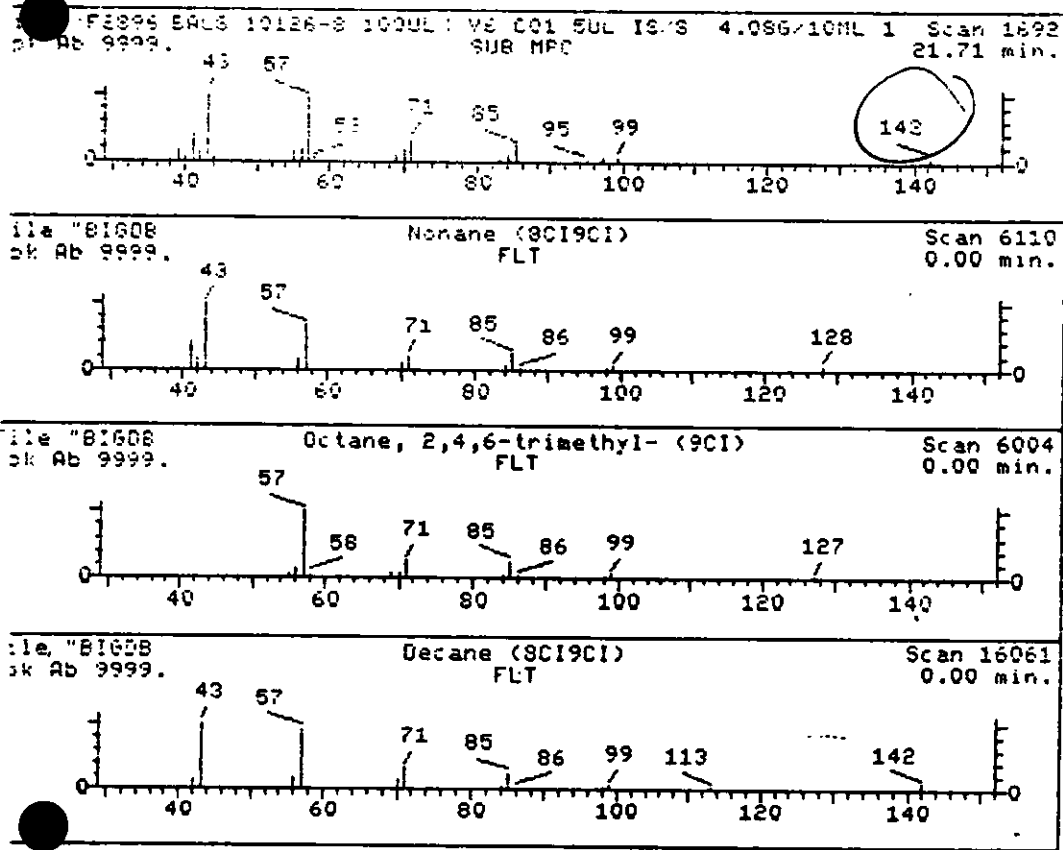
- 1. Hexane, 2,4-dimethyl- (8C19C1)
- 2. Heptane, 2,4-dimethyl- (9C19C1)
- 3. Octane, 2,4-dimethyl- (10C19C1)
- 4. Nonane, 2,4-dimethyl- (11C19C1)
- 5. Decane, 2,4-dimethyl- (12C19C1)

10-16-91

Sample file: 9999- Spectrum #: 1892  
 Search speed: 2 Tilting option: 5 No. of ion ranges searched: 10

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU	
1.	70	111842	6110	"BIGDB	52	44	2	0	97	9	42	14
2.	70	62016379	6004	"BIGDB	43	42	2	0	94	8	42	14
3.	67*	124185	16061	"BIGDB	63	37	3	1	100	11	34	26
4.	52*	1072168	8726	"BIGDB	28	67	3	0	100	17	20	13
5.	52*	17301949	3768	"BIGDB	25	75	3	0	94	20	20	13
6.	52	1002171	6094	"BIGDB	50	42	2	0	80	20	20	16

UCC - SB - C - 18 - 2



*C<sub>10</sub>H<sub>22</sub> isomer*  
~~unknown~~  
 alkane  
 JG 10/16/91

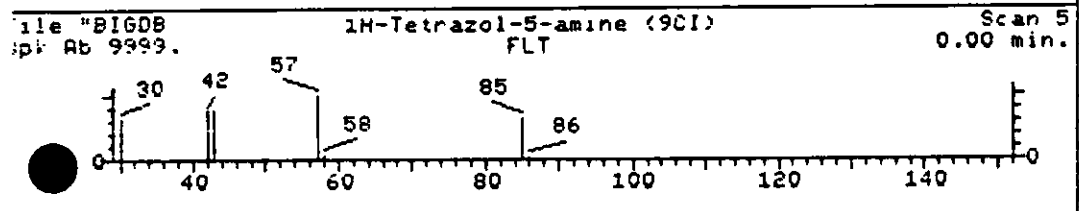
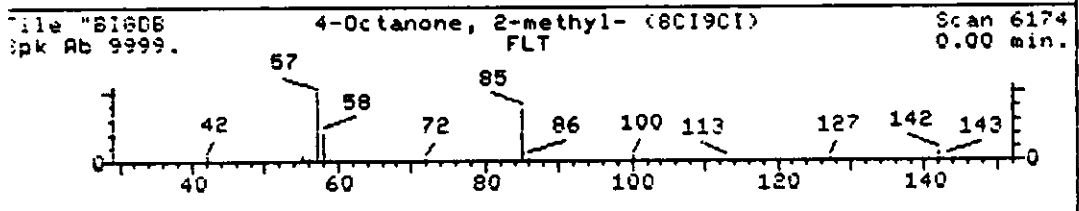
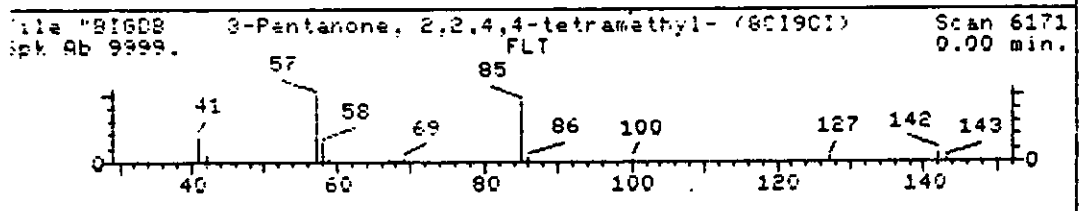
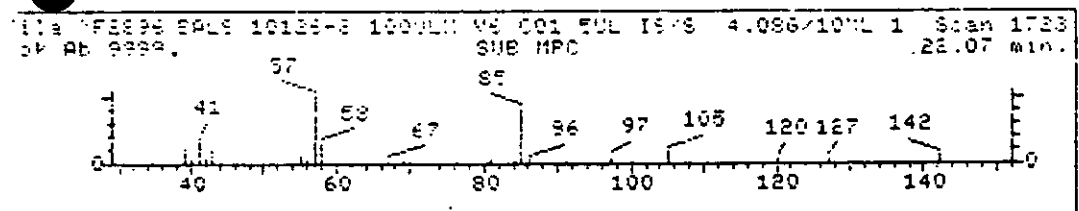
- 1. 3-Pentanone, 2,2,4,4-tetramethyl- (8C19C1)
- 2. 4-Octanone, 2-methyl- (8C19C1)
- 3. 1H-Tetrazol-5-amine (9C1)
- 4. 2-Pyrrolidinone (8C19C1)

Scan 1733  
28.07 min.

Search speed: 2      Tilting option: S      No. of ion ranges searched: 5

Prob.	CAS #	CON #	ROOT	K	OK	#-LG	TILT	%	CON	L_I	P_IV
1.	815247	6171	"BIGDB	61	32	2	0	83	7	53	46
2.	7492388	6174	"BIGDB	48	44	2	0	72	9	45	28
3.	4418615	5	"BIGDB	21	104	2	0	100	22	17	13
4.	108838	6169	"BIGDB	28	71	2	0	56	50	7	14
5.	3002231	6172	"BIGDB	26	69	3	0	80	51	5	13
6.	616466	5953	"BIGDB	25	66	2	0	80	59	3	14

UCC - SB-C-18-2



Unknown  
JD 10/19/11

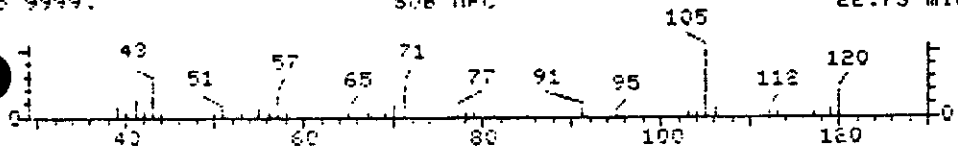
*UCC*  
*A 10/16/11*

Search speed: 2      Tilting option: 5      No. of ion ranges searched: 40

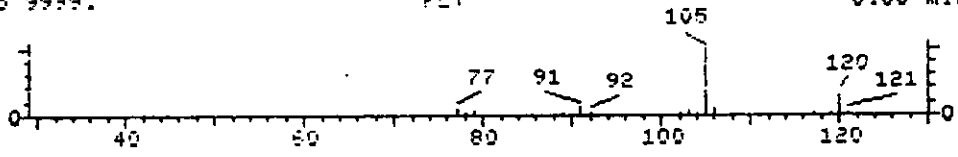
Prob.	CAS #	CON #	POOL	K	OK	#PLS	TILT	%	CON	CHI	PLI	
1.	56*	611143	12266	"BIGDB	55	30	2	0	100	33	22	41
2.	56*	622968	12268	"BIGDB	55	30	2	0	100	33	22	41
3.	56*	620144	12267	"BIGDB	55	32	2	0	100	32	22	41
4.	18*	98828	12259	"BIGDB	57	30	2	-2	100	59	4	26

*UCC - SB-18-2*

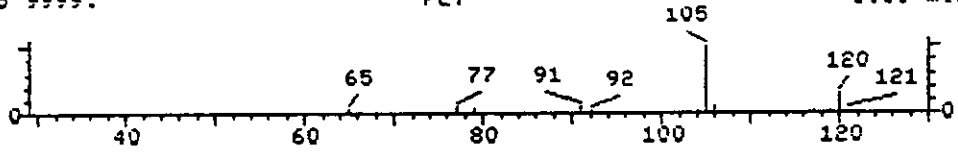
file #2396 BALS 10188-3 1000LN VE Q01 BUL IS-MS 4.098/10ML 1 Scan 1779  
pk Ab 9999.      SIB MPC      22.73 min.



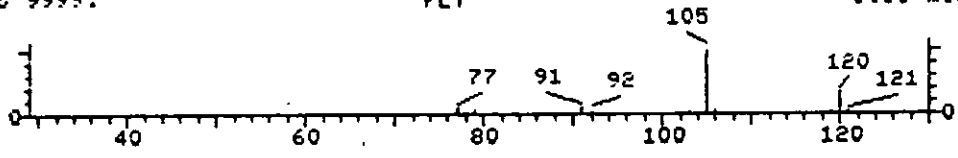
file "BIGDB Benzene, 1-ethyl-2-methyl- (9CI) Scan 12266  
pk Ab 9999.      FLT      0.00 min.



file "BIGDB Benzene, 1-ethyl-4-methyl- (9CI) Scan 12268  
pk Ab 9999.      FLT      0.00 min.



file "BIGDB Benzene, 1-ethyl-3-methyl- (9CI) Scan 12267  
pk Ab 9999.      FLT      0.00 min.



*C<sub>9</sub>H<sub>12</sub> isomer*  
*JG 10/19/11*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-3-QA1

Site Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 10126-10  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2735  
 Level: (low/med) LOW Date Received: 10/04/91  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91  
 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	4	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.

10-3-QA1

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 10126-10  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2735  
Level: (low/med) LOW Date Received: 10/04/91  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91  
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 Odell'd

P-100591-U6A

NL

624-A

F2732

Clear

Reduced by: JE Date: 10/6/91  
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Data File: F2732  
Page: 1

Enseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: BALSAM 10126-10 5ML.  
Misc : U6, CH#02, 5UL IS/S, UCC-10/3-QA1  
Injected : 10/05/91 16:46  
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	.2327	93.1	76 114
CS05 D8-Toluene	.2500	.2416	96.6	88 110
CS10 Bromofluorobenzene	.2500	.2527	101	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
248	3.724	(3.7) J	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

000161

Sample: BALSAM 1013e-10 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)



Diagnostic Quant Report

Data File: F2735:06 Injected at: 16:46 10/05/91  
 Quant'd : 17:14 10/05/91  
 ID File : MOB06:MT Calibrated : 09:37 08/14/91

Compound	- R.T. Info -			Ion	Area	RF	Conc.
	Pred	Found	Dif				
1) *CI01 Bromochloromethane	7.13	7.14	.01	128.0	94471	1.0000	50.00
2) C010 Chloromethane	2.62	0.00	--	50.0	0	1.2796	0.00
3) C020 Vinyl Chloride	2.76	0.00	--	62.0	0	1.2103	0.00
4) C015 Bromomethane	3.15	0.00	--	94.0	0	1.0877	0.00
5) C025 Chloroethane	3.28	0.00	--	64.0	0	.7092	0.00
6) C045 1,1-Dichloroethene	4.23	0.00	--	96.0	0	1.3313	0.00
7) C035 Acetone	4.30	0.00	--	43.0	0	.2589	0.00
8) C040 Carbon Disulfide	4.53	0.00	--	76.0	0	3.9189	0.00
9) C030 Methylene Chloride	4.86	4.87	.00	84.0	11642	1.6545	3.72
10) CXXX Tert-butyl alcohol	5.03	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.24	0.00	--	96.0	0	1.6464	0.00
12) C055 Cis-1,2-dichloroethe	6.73	0.00	--	96.0	0	1.8854	0.00
13) CXXX Methyl tert-butyl et	5.25	0.00	--	73.0	0	2.9749	0.00
14) C050 1,1-Dichloroethane	5.84	0.00	--	63.0	0	3.1591	0.00
15) C060 Chloroform	7.27	7.28	.01	83.0	3921	3.7242	.54
16) C065 1,2-Dichloroethane	8.29	0.00	--	62.0	0	2.1732	0.00
17) C110 2-Butanone	6.76	0.00	--	72.0	0	.1512	0.00
18) CS15 D4-1,2-dichloroethan	8.15	8.16	.01	65.0	151603	1.7243	46.53
19) *CI10 1,4-Difluorobenzene	9.00	9.01	.02	114.0	516954	1.0000	50.00
20) C125 Vinyl Acetate	5.92	0.00	--	43.0	0	.6181	0.00
21) C115 1,1,1-Trichloroethan	7.60	0.00	--	97.0	0	.5735	0.00
22) C120 Carbon Tetrachloride	7.90	0.00	--	117.0	0	.4757	0.00
23) C165 Benzene	8.28	0.00	--	78.0	0	1.0014	0.00
24) C150 Trichloroethene	9.54	0.00	--	130.0	0	.4246	0.00
25) C140 1,2-Dichloropropane	10.02	0.00	--	63.0	0	.4199	0.00
26) C130 Bromodichloromethane	10.64	0.00	--	83.0	0	.6324	0.00
27) C175 2-Chloroethylvinylet	11.37	0.00	--	63.0	0	.2024	0.00
28) C143 Cis-1,3-Dichloroprop	11.68	0.00	--	75.0	0	.6252	0.00
29) C172 Trans-1,3-dichloropr	13.09	0.00	--	75.0	0	.4986	0.00
30) C160 1,1,2-Trichloroethan	13.56	0.00	--	97.0	0	.3453	0.00
31) C155 Dibromochloromethane	14.59	0.00	--	129.0	0	.5216	0.00
32) C180 Bromoform	18.79	0.00	--	173.0	0	.3118	0.00
33) *CI20 D5-Chlorobenzene	16.18	16.18	.00	117.0	401206	1.0000	50.00
34) CS05 D8-Toluene	12.30	12.31	.01	98.0	491967	1.2690	48.31
35) C205 4-Methyl-2-pentanone	12.06	0.00	--	43.0	0	.4176	0.00
36) C230 Toluene	12.47	12.46	.01	92.0	1330	.9244	.18
37) C210 2-Hexanone	14.27	0.00	--	43.0	0	.3022	0.00
38) C220 Tetrachloroethene	13.87	0.00	--	164.0	0	.4776	0.00
39) C235 Chlorobenzene	16.27	0.00	--	112.0	0	1.1252	0.00
40) C240 Ethylbenzene	16.65	0.00	--	106.0	0	.5495	0.00
41) CXXX Xylenes (p)	17.02	0.00	--	106.0	0	.6626	0.00
42) CXXX Xylenes (o)	18.21	0.00	--	106.0	0	.6522	0.00
43) C245 Styrene	18.26	0.00	--	104.0	0	1.1452	0.00
44) C225 1,1,2,2-Tetrachloroe	20.44	0.00	--	83.0	0	.7090	0.00
45) CS10 Bromofluorobenzene	19.84	19.84	.00	95.0	289799	.7147	50.53
46) C335 Dichlorobenzene (m)	23.41	0.00	--	146.0	0	.8843	0.00
47) C340 Dichlorobenzene (p)	23.72	0.00	--	146.0	0	.8083	0.00
48) C350 Dichlorobenzene (o)	24.95	0.00	--	146.0	0	.8123	0.00

000163

Internal Standard Comparison

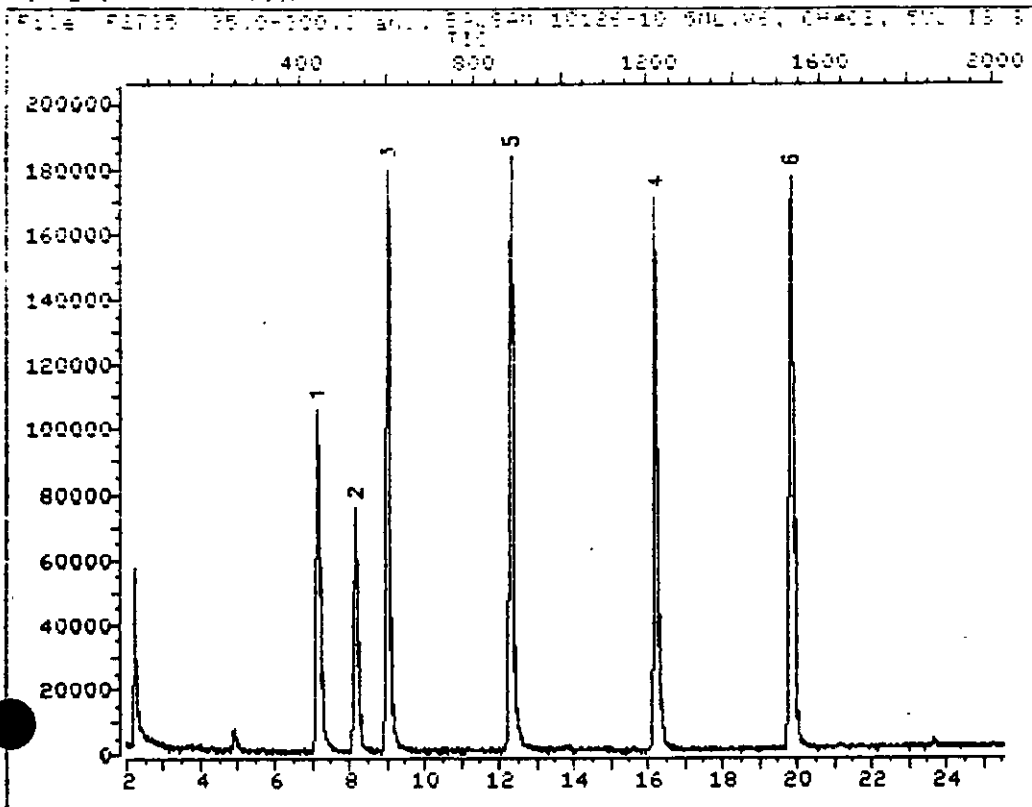
Sample: F2735 Date injected: 10/05/91 Standard: F2729 ✓

Internal Standard	Sample Area	Std Area	%
DI01 Bromochloromethane	94471	82626	114.3
DI10 1,4-Difluorobenzene	516954	439106	117.7
DI20 D5-Chlorobenzene	401206	330996	121.2

% = (Sample Area/Std Area)\*100

\* Area outside limits

TOTAL ION CHROMATOGRAM



Data File: >F2735::D6

Quant Output File: ^F2735::D7

Name: BALSAM 10126-10 5ML.

Instrument ID: U6

Misc: U6, CH#02, 5UL IS/S, UCC-10/3-QA1

Id File: MOBID6::MT

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

Last Calibration: 910814 09:37

Last Qcal Time: 911005 13:23

Operator ID: KERYLYNN

Quant Time : 911005 17:14

Injected at: 911005 16:46

000165

QUANT REPORT

Page 1

Operator ID: KERYLYNN                      Quant Rev: 7            Quant Time: 911005 17:14  
 Output File: ^F2735::D7                    Injected at: 911005 16:46  
 Data File: >F2735::D6                    Dilution Factor: 1.00000  
 Name: BALSAM 10126-10 5ML.                Instrument ID: U6  
 Misc: U6, CH#02, 5UL IS/S, UCC-10/3-QA1

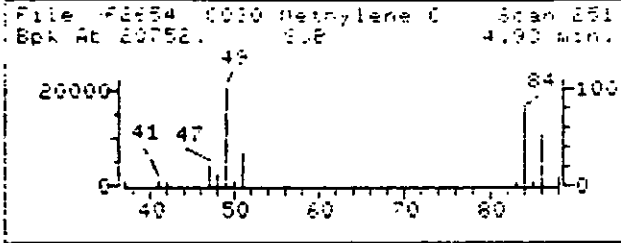
ID File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCC/ENSECO  
 Last Calibration: 910814 09:37            Last Qcal Time: 911005 13:23

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.14	128.0		94471	50.00	UG/L	77
9)	C030 Methylene Chloride	4.87	84.0		11642	3.72	UG/L	84
15)	C060 Chloroform	7.28	83.0		3821	.543	UG/L	99
18)	CS15 D4-1,2-dichloroethane	8.16	65.0		151603	46.53	UG/L	91
19)	*CI10 1,4-Difluorobenzene	9.01	114.0		516954	50.00	UG/L	100
33)	*CI20 D5-Chlorobenzene	16.18	117.0		401206	50.00	UG/L	100
	CS05 D8-Toluene	12.31	98.0		491967	48.31	UG/L	95
36)	C230 Toluene	12.46	92.0		1330	.179	UG/L	79
45)	CS10 Bromofluorobenzene	19.84	95.0		289799	50.53	UG/L	74

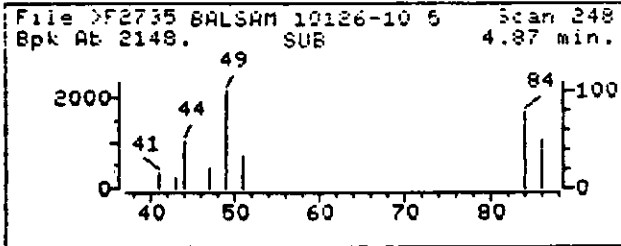
\* Compound is ISTD

000166

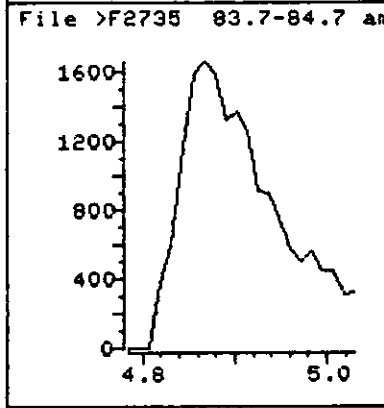
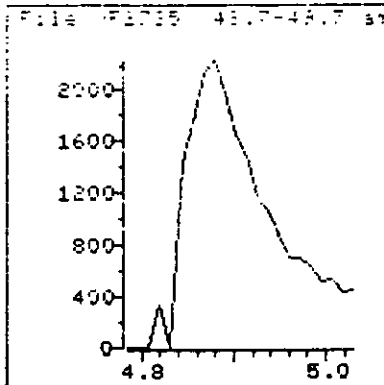
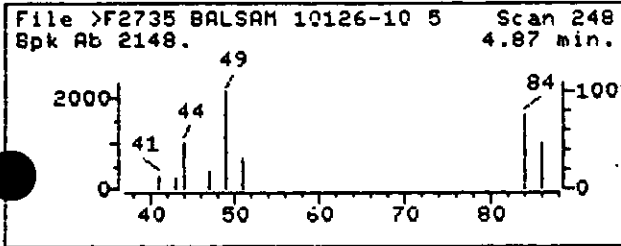
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >F2735::D6  
 Name: BALSAM 10126-10 5ML.  
 Misc: U6, CH#02, 5UL IS/S, UCC-10/3-QA1  
 Quant Time: 911005 17:14  
 Injected at: 911005 16:46  
 Last Qcal Time: 911005 13:23

Quant Output File: ^F2735::D7  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 9  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 248  
 Retention Time: 4.87 min.  
 Quant Ion : 84.0  
 Area : 11642  
 Concentration : 3.72 UG/L  
 q-value : 84

IC Internal Standard Report

Data File: F2735

Maximum separation of PIC and Quant ion peaks: 3.  
Minimum RIC 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	RQratio RIC scan RIC area	% Est. RIC
1	CI01 Bromochlorometh	50.000 UG/L	Ok
443.	94471.	7.150 443. 680505.	100.750
2	CI10 1,4-Difluoroben	50.000 UG/L	Ok
604.	516954.	2.360 604. 1149020.	94.189
3	CI20 D5-Chlorobenzen	50.000 UG/L	Ok
1219.	401206.	3.818 1219. 1225309.	79.991

Deleting peaks from INT file: UDIR87

Minimum area: 10 % of area of closest Int. Std.  
Number of peaks: 6  
Number of peaks remaining: 6

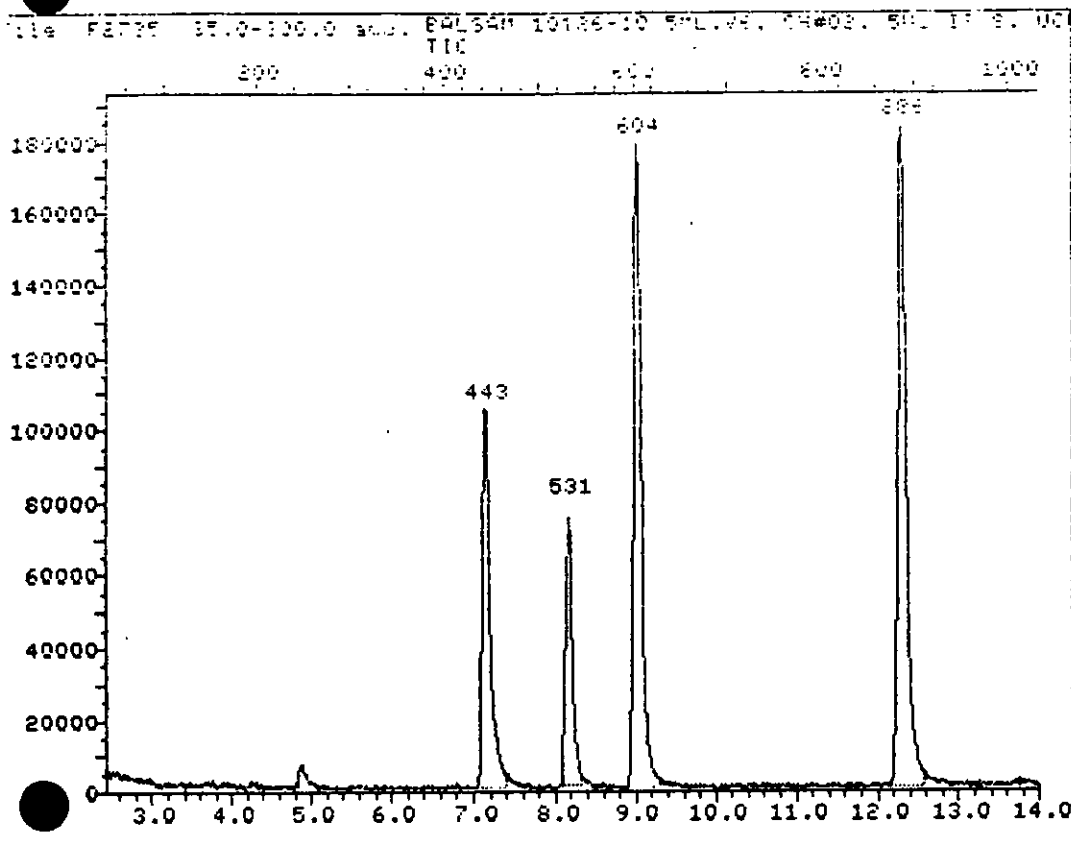
Deleting target compounds from INT file: UDIR87

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

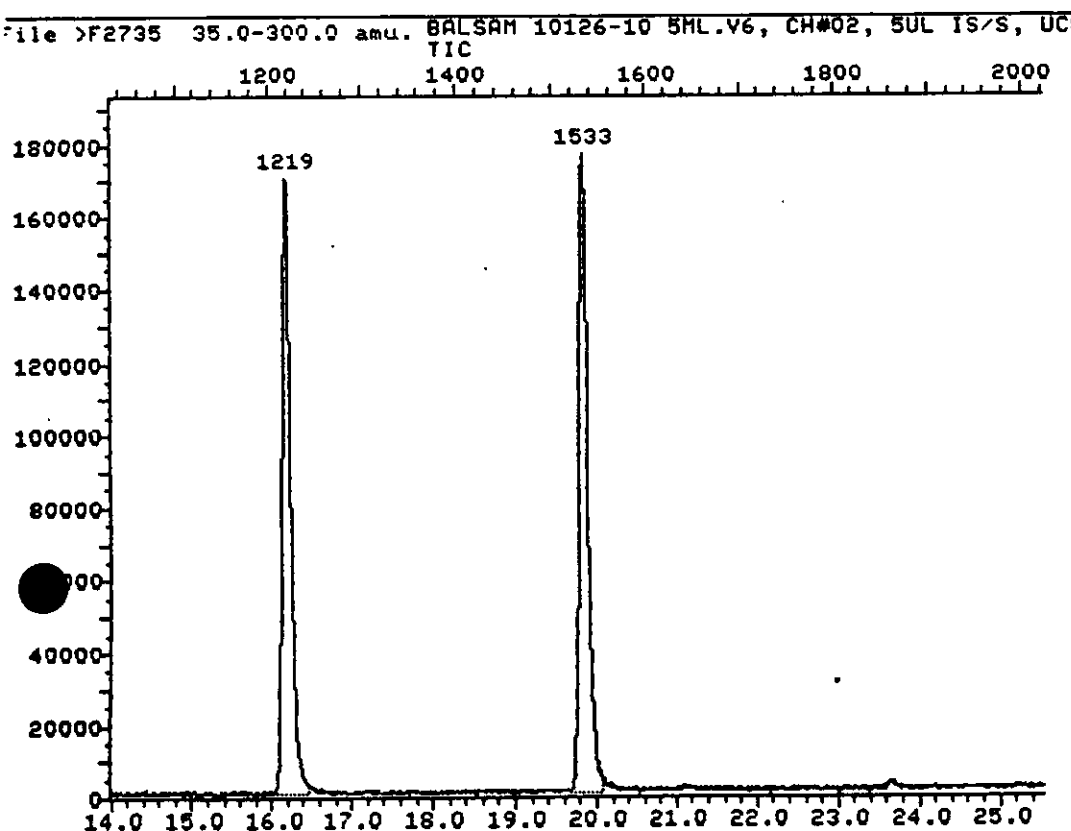
Deleting all but largest peaks from INT file: UDIR87

Maximum number of peaks to keep: 15  
Number of peaks: 0

Maximum number of peaks > number of peaks.



UCC - 10/3 - QA1



000169

Sample Reduced by: JE Date: 10/6/91  
Date Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data File: F273F

Enasco TIC Report (page 1)

Sample: BALSAM 10126-10 5ML. Run Factor: 1.00  
Conditions: U6, CH#02, 5UL IS/S, UCC-10/3- Analyst: KERYLYNN

#	Scan	Q	C	Concentration In Sample (UG/L )	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

UCC-10/3-QA1

No Unknowns

000170



File: F273F

Enzeo TIC Report (page 2)

$$\text{Concentration} = \text{Area(TIC)} * \text{Conc.(IS)} / \text{Area(IS)}$$

#	Prob.	Cont.	Int. Std.	RT	RRT	Area	Height	Conc. As Analyzed (UG/L )
---	-------	-------	-----------	----	-----	------	--------	---------------------------

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-B-14-3

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 10126-12

Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2894

Level: (low/med) MED Date Received: 10/04/91

% Moisture: not dec. 15 Date Analyzed: 10/11/91

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

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

CAS NO.	COMPOUND	(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	200	J
67-64-1	-----Acetone	1400	U
75-15-0	-----Carbon Disulfide	720	U
75-35-4	-----1,1-Dichloroethene	720	U
75-34-3	-----1,1-Dichloroethane	720	U
540-59-0	-----1,2-Dichloroethene (total)	720	U
67-66-3	-----Chloroform	720	U
107-06-2	-----1,2-Dichloroethane	720	U
78-93-3	-----2-Butanone	1400	U
71-55-6	-----1,1,1-Trichloroethane	720	U
56-23-5	-----Carbon Tetrachloride	720	U
108-05-4	-----Vinyl Acetate	1400	U
75-27-4	-----Bromodichloromethane	720	U
78-87-5	-----1,2-Dichloropropane	720	U
10061-01-5	-----cis-1,3-Dichloropropene	720	U
79-01-6	-----Trichloroethene	720	U
124-48-1	-----Dibromochloromethane	720	U
79-00-5	-----1,1,2-Trichloroethane	720	U
71-43-2	-----Benzene	720	U
10061-02-6	-----trans-1,3-Dichloropropene	720	U
110-75-8	-----2-Chloroethylvinylether	1400	U
75-25-2	-----Bromoform	720	U
108-10-1	-----4-Methyl-2-Pentanone	1400	U
591-78-6	-----2-Hexanone	1400	U
127-18-4	-----Tetrachloroethene	720	U
79-34-5	-----1,1,2,2-Tetrachloroethane	720	U
108-88-3	-----Toluene	720	U
108-90-7	-----Chlorobenzene	720	U
100-41-4	-----Ethylbenzene	720	U
100-42-5	-----Styrene	720	U
1330-20-7	-----Xylene (total)	340	J

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-B-14-3

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 10126-12  
Sample wt/vol: 4.1 (g/mL) G Lab File ID: F2894  
Level: (low/med) MED Date Received: 10/04/91  
% Moisture: not dec. 15 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
=====	=====	=====	=====	=====

NC

L- 1007-11V6M

R- 101091V6B

7F2886

clean

Prepared by: JJ  
Reviewed by: RJ

Date: 10/19/91  
Date: 10-16-91

Data File: 28894  
Page: 1

Enseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: BALS 10126-12 1000LX

Misc : 06 L15 SUL 1575 4.066/10ML 100891 000-58-B-14-3

Injected : 10/11/91 04:56

Units: 06/KG

Analyst: KERYLYNN

Run Factor: 123.000

ID File: MUB106

Surrogate vol: .500

Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 04-1,2-dichloroethane	25.00	18.97	75.9	70 121
CS05 08-toluene	25.00	21.25	85.0	81 117
CS10 Bromofluorobenzene	25.00	20.33	81.3	74 121

Target Compounds: MUB106

Scan #	Concentration		Compound
	Quant List UG/L	Sample UG/KG	
		BUL	CU10 Chloromethane
		BUL	CU20 Vinyl Chloride
		BUL	CU15 Bromomethane
		BUL	CU25 Chloroethane
		BUL	CU45 1,1-Dichloroethene
		BUL	CU35 Acetone
262	1.369	BUL	CU40 Carbon Disulfide
		BUL	CU30 Methylene Chloride
		BUL	CXXX tert-butyl alcohol
		BUL	CU55 trans-1,2-dichloroethene
		BUL	CU55 cis-1,2-dichloroethene
		BUL	CXXX Methyl tert-butyl ether
		BUL	CU50 1,1-Dichloroethane
		BUL	CU60 Chloroform
		BUL	CU65 1,2-Dichloroethane
		BUL	CU10 2-Butanone
		BUL	CU25 Vinyl Acetate
		BUL	CU15 1,1,1-Trichloroethane
		BUL	CU20 Carbon tetrachloride
		BUL	CU65 Benzene
		BUL	CU50 trichloroethene
		BUL	CU40 1,2-Dichloropropane
		BUL	CU30 Bromodichloromethane
		BUL	CU75 2-Chloroethylvinylether
		BUL	CU43 cis-1,3-Dichloropropene
		BUL	CU72 trans-1,3-dichloropropene
		BUL	CU60 1,1,2-trichloroethane

③

1/UBRL  
J

JJ 10/19/91

Scan #	Concentration Nbrant 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
1515	2.251	270 <i>BRC</i>	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)
1515	2.356	270 <i>J</i> <i>BRC</i>	C250 Xylenes (total)

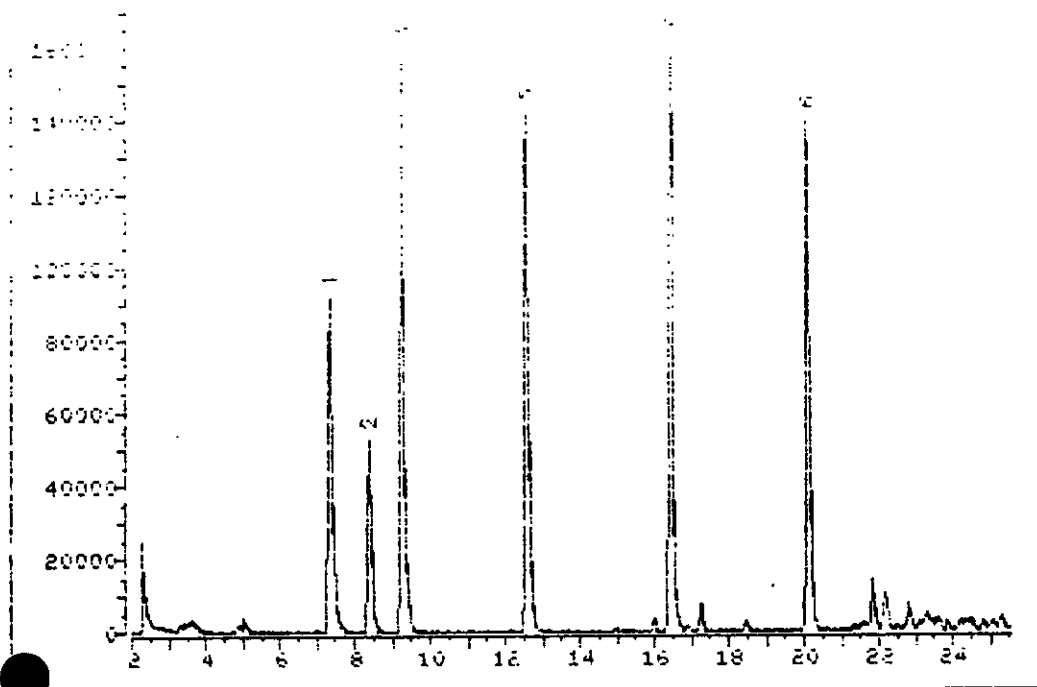
Compound	Pred	Found	Dif	Ion	Area	Fr	Conc.
1) *C111 Bromochloromethane	7.29	7.33	.04	129.0	85151	1.0000	50.00
2) C112 Chloroethane	7.71	0.00	--	80.0	0	1.0000	0.00
3) C030 Vinyl Chloride	2.35	0.00	--	62.0	0	1.8700	0.00
4) C114 Bromoethane	3.24	0.00	--	84.0	0	1.1471	0.00
5) C025 Chloroethane	3.37	0.00	--	64.0	0	.7354	0.00
6) C045 1,1-Dichloroethane	4.35	0.00	--	96.0	0	1.5714	0.00
7) C035 Acetone	4.42	0.00	--	43.0	0	.2202	0.00
8) C040 Carbon Disulfide	4.66	0.00	--	76.0	0	4.2994	0.00
9) C030 Methylene Chloride	5.01	5.01	.00	84.0	4543	1.9489	1.37
10) CXXX Tert-butyl alcohol	5.16	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.38	0.00	--	96.0	0	1.9080	0.00
12) C055 Cis-1,2-dichloroethe	6.92	0.00	--	96.0	0	2.0414	0.00
13) CXXX Methyl tert-butyl et	5.38	0.00	--	73.0	0	3.2861	0.00
14) C050 1,1-Dichloroethane	6.01	0.00	--	63.0	0	3.5944	0.00
15) C060 Chloroform	7.47	0.00	--	83.0	0	4.0227	0.00
16) C065 1,2-Dichloroethane	8.50	0.00	--	62.0	0	2.2965	0.00
17) C110 2-Butanone	6.93	0.00	--	72.0	0	.1243	0.00
18) C015 D4-1,2-dichloroethan	8.36	8.36	.00	65.0	119462	1.8492	37.93
19) *C110 1,4-Difluorobenzene	9.18	9.23	.05	114.0	472226	1.0000	50.00
20) C125 Vinyl Acetate	6.06	0.00	--	43.0	0	.4990	0.00
21) C115 1,1,1-Trichloroethan	7.80	0.00	--	97.0	0	.5573	0.00
22) C120 Carbon Tetrachloride	8.09	0.00	--	117.0	0	.4441	0.00
23) C165 Benzene	8.48	0.00	--	78.0	0	.9866	0.00
24) C150 Trichloroethene	9.75	0.00	--	130.0	0	.4234	0.00
25) C140 1,2-Dichloropropane	10.25	0.00	--	63.0	0	.3961	0.00
26) C130 Bromodichloromethane	10.87	0.00	--	83.0	0	.5620	0.00
27) C175 2-Chloroethylvinylet	11.59	0.00	--	63.0	0	.1602	0.00
28) C143 Cis-1,3-Dichloroprop	11.91	0.00	--	75.0	0	.5458	0.00
29) C172 Trans-1,3-dichloropr	13.34	0.00	--	75.0	0	.4248	0.00
30) C160 1,1,2-Trichloroethan	13.79	0.00	--	97.0	0	.2976	0.00
31) C155 Dibromochloromethane	14.86	0.00	--	129.0	0	.4414	0.00
32) C180 Bromoform	19.09	0.00	--	173.0	0	.2534	0.00
33) *C120 D5-Chlorobenzene	16.40	16.43	.03	117.0	368044	1.0000	50.00
34) C005 D8-Toluene	12.52	12.54	.02	98.0	381915	1.2209	42.50
35) C205 4-Methyl-2-pentanone	12.29	0.00	--	43.0	0	.3090	0.00
36) C230 Toluene	12.69	0.00	--	92.0	0	.7974	0.00
37) C210 2-Hexanone	14.49	0.00	--	43.0	0	.2092	0.00
38) C220 Tetrachloroethene	14.11	0.00	--	164.0	0	.4080	0.00
39) C235 Chlorobenzene	16.51	0.00	--	112.0	0	.9815	0.00
40) C240 Ethylbenzene	16.89	16.87	.01	106.0	1030	.5010	.29
40)D C240 Ethylbenzene	16.89	17.25	.36	106.0	10234	.5010	2.78
41)D CXXX Xylenes (p)	17.26	16.87	.39	106.0	1030	.6233	.22
42) CXXX Xylenes (p)	17.26	17.25	.01	106.0	10234	.6233	2.23
42) CXXX Xylenes (o)	18.46	18.44	.02	106.0	2542	.5877	.59
43) C245 Styrene	18.51	0.00	--	104.0	0	1.0250	0.00
44) C225 1,1,2,2-Tetrachloroe	20.70	0.00	--	83.0	0	.5339	0.00
45) C010 Bromofluorobenzene	20.12	20.07	.05	95.0	220477	.7366	40.66
46) C335 Dichlorobenzene (m)	23.70	0.00	--	146.0	0	.8135	0.00
47) C340 Dichlorobenzene (p)	24.02	0.00	--	146.0	0	.7418	0.00
48) C350 Dichlorobenzene (o)	25.25	0.00	--	146.0	0	.7841	0.00

000176

Sample: A-100 Date collected: 1/1/70

Compound	Area	Std. Area	Concn
101 Bromochloromethane	85150	27974	124.4
110 1,4-Difluorobenzene	47220	17921	116.9
110 2,6-Dichlorobenzene	34304	770421	111.2

\* Sample Area/Std. Area\*100  
 \* Area outside limits



Data File: >F2894::D6

Quant Output File: ^F2894::D7

Name: BALS 10126-12 100ULX

Instrument ID: V6

Misc: V6 C1F 5UL IS/S 4.06G/10ML 100891 UCC-SB-B-14-3

Id File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 V6 ERCD/ENSECO

Last Calibration: 910814 09:37

Last Qcal Time: 911010 22:48

Operator ID: KERYLYNN

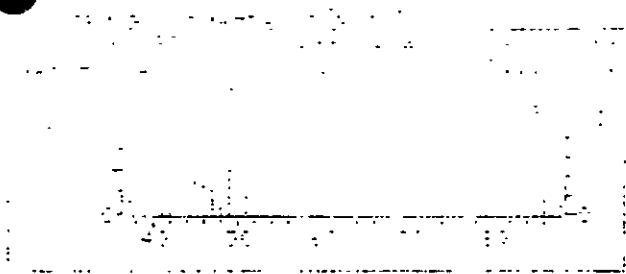
Quant Time : 911011 05:24

Injected at: 911011 04:56

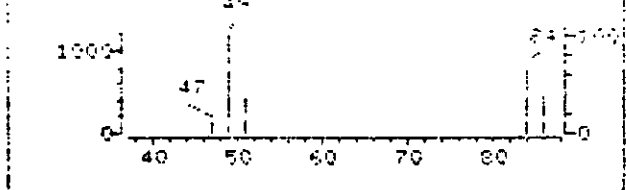
000178





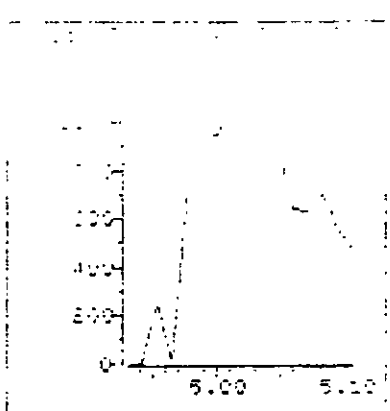
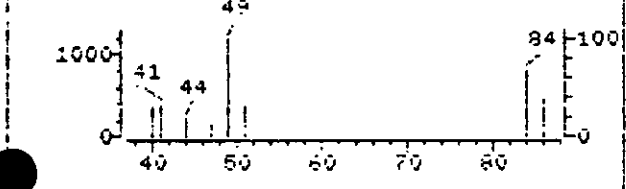


File >F2894 BALG 10126-12 100 Scan 262  
 Spk Ab 1184. 5.01 min.

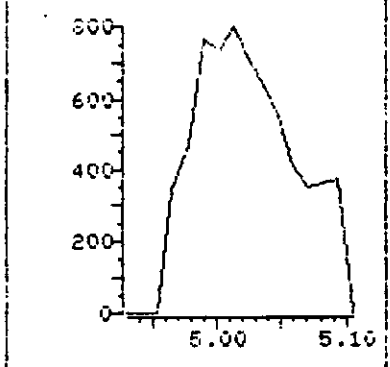


SAMPLE SPECTRUM (UNALTERED)

File >F2894 BALG 10126-12 100 Scan 262  
 Spk Ab 1184. 5.01 min.



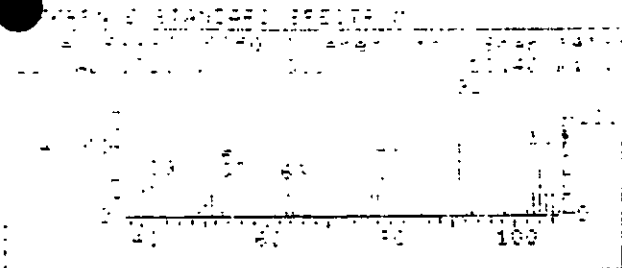
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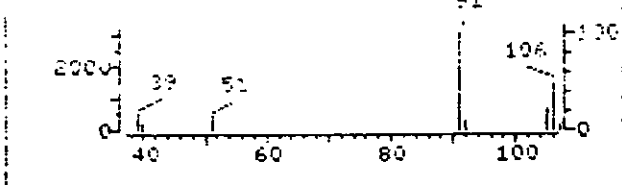
Data File: >F2894::06  
 Name: BALG 10126-12 100ULX  
 Misc: U6 C15 5UL IS/S 4.06G/10ML 100891 UCC-SB-B-14-3  
 Quant Time: 911011 05:24  
 Injected at: 911011 04:56  
 Last Qcal Time: 911010 22:48

Quant Output File: ^F2894::07  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

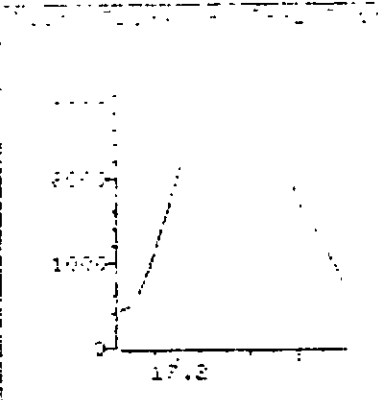
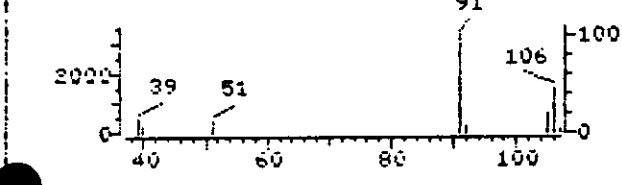
Compound No : 9  
 Compound Name : C030 Methylene Chloride  
 Scan Number : 262  
 Retention Time: 5.01 min.  
 Quant Ion : 84.0  
 Area : 4543  
 Concentration : 1.37 UG/L  
 q-value : 96



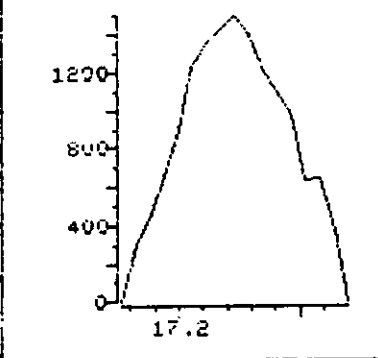
SAMPLE SPECTRUM (UNALTERED)  
 File F2894 BALS 10126-12 100 Scan 1313  
 Bpk Ab 3256. 17.25 min.



SAMPLE SPECTRUM (UNALTERED)  
 File F2894 BALS 10126-12 100 Scan 1313  
 Bpk Ab 3256. 17.25 min.



File F2894 105.7-106.7



Data File: >F2894::06  
 Name: BALS 10126-12 100ULX  
 Misc: U6 C15 5UL IS/S 4.06G/10ML 100891 UCC-SB-B-14-3  
 Quant Time: 911011 05:24  
 Injected at: 911011 04:56  
 Last Qcal Time: 911010 22:48

Quant Output File: ^F2894::07  
 Instrument ID: U6  
 Quant ID File: MOBID6::MT  
 Last Calibration: 910814 09:37

Compound No : 49  
 Compound Name : C250 Xylenes (total)  
 Scan Number : 1313  
 Retention Time: 17.25 min.  
 Quant Ion : 106.0  
 Area : 9922  
 Concentration : 2.36 UG/L  
 q-value : 84

Data Reduced by :   J   Date:   10/19/91    
Data Reviewed by :   A   Date:   10-16-91  

Data File: >F2894

Enseco IIL Report (page 1)

Sample: RAIS 10126-12 100DLX Run Factor: 1.22  
Conditions: 06 L15 SUL 15/5 4.065/10ML 10 Analyst: KERYLYNN

# Scan	W	C	Concentration In Sample (UG/KG)	CAS #	Compound
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*NO unknowns*

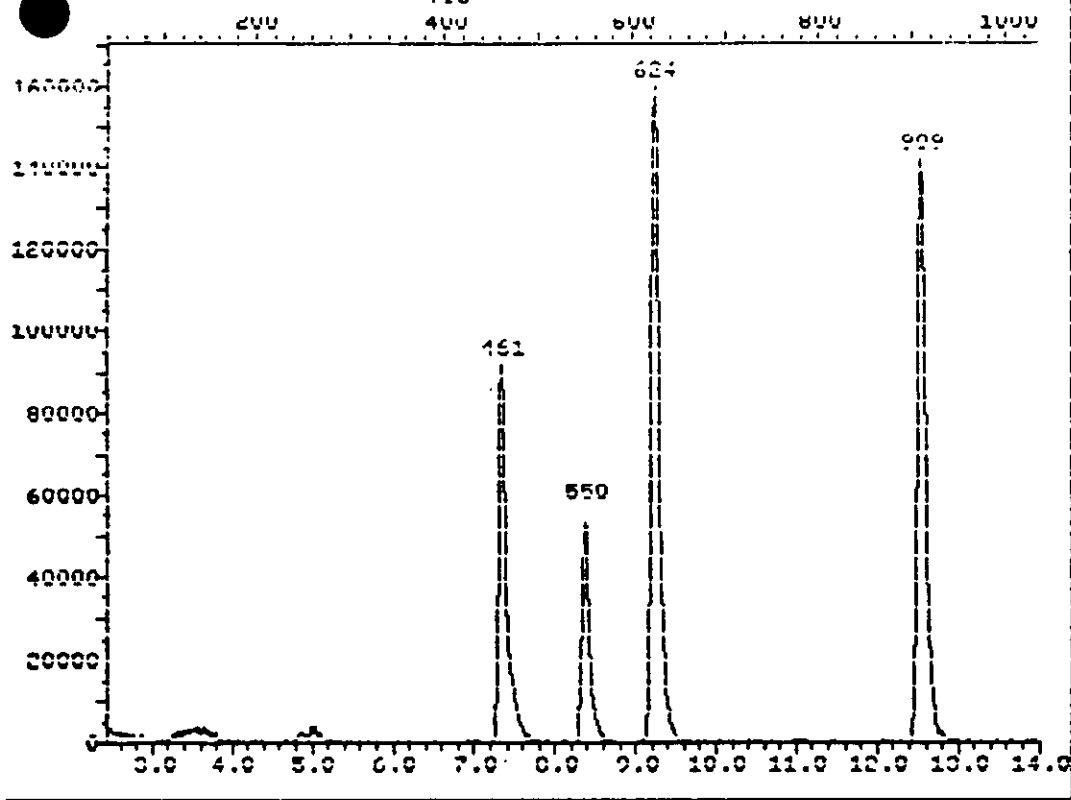
*UCC -SB-B-14-3*

Int.	# Prob. Cont. Std.	RI	KRI	Area	Height	Conc.	HS Analyzed	(URL)
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Concentration = Area \* RI / (Area \* RI)

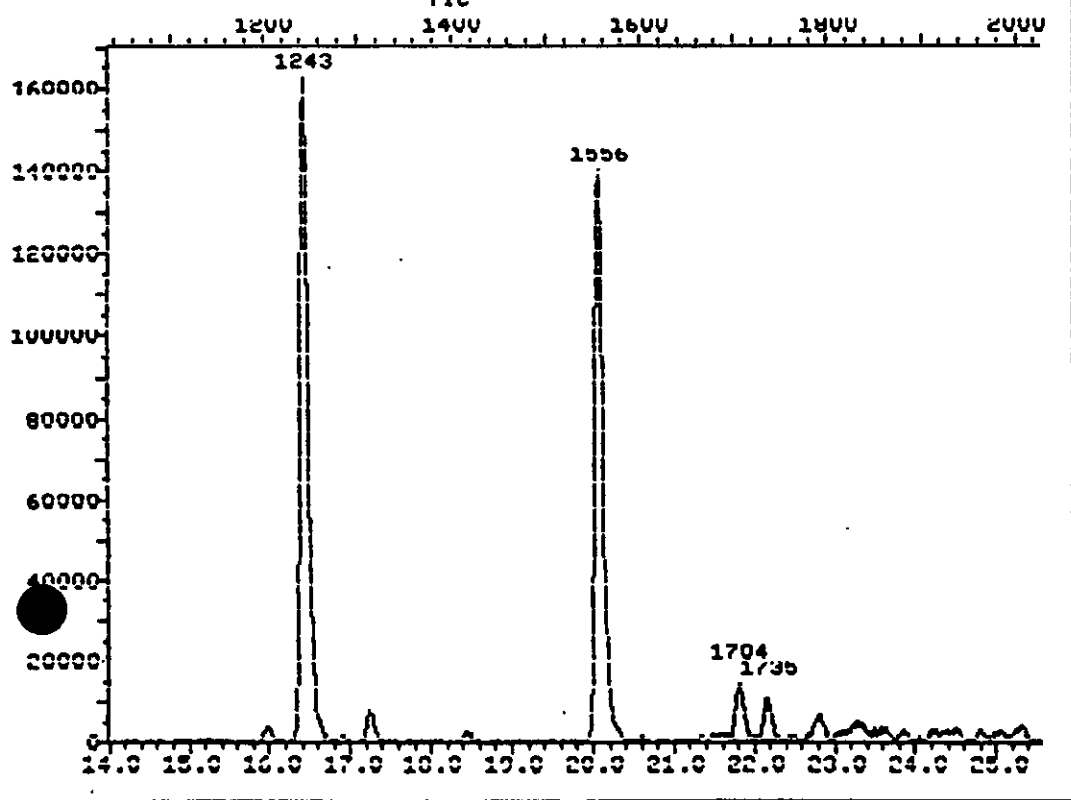
Enesco III Report Page 21

File >F2894 35.0-300.0 amu. BAL'S 10126-12 100ULXV6 C15 5UL IS/S 4.066/



UCC-SB-B-14-3

File >F2894 35.0-300.0 amu. BAL'S 10126-12 100ULXV6 C15 5UL IS/S 4.066/



000184

Internal Standard Report

data file: >F2844

Maximum separation of RIL and Quan ion peaks: 2.  
Minimum RIL peak area as % of est. RIL area: 50.  
Maximum RIL peak area as % of est. RIL area: 200.

#	Name	Concentration	Flag
W scan	W area	RWratio RIL scan RIL area	% Est. RIL
1	C101 Bromochlorometh	50.000 UG/L	UK
461.	85150.	6.987 461. 629592.	105.822
2	C110 1,4-Difluoroben	50.000 UG/L	UK
624.	472226.	2.500 624. 1096659.	100.979
3	C120 D5-Chlorobenzen	50.000 UG/L	UK
1243.	568044.	5.615 1243. 1151410.	85.043

Deleting peaks from INI file: UDIR/5  
Minimum area: 10 % of area of closest Int. Std.  
Number of peaks: 8  
Number of peaks remaining: 6

Deleting target compounds from INI file: UDIR/5  
Minimum separation of RIL and target: 5.  
Maximum fraction of RIL peak from targets: 40. %  
Number of peaks: 6  
Number of peaks remaining: 0

Deleting all but largest peaks from INI file: UDIR/5  
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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

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 = 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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 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
Bromoform	* 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

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 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 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	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#
1,2-Dichloroethene (total)	1.844	1.488	1.472	1.592	1.507	1.581	9.8
Chloroform	* 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

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

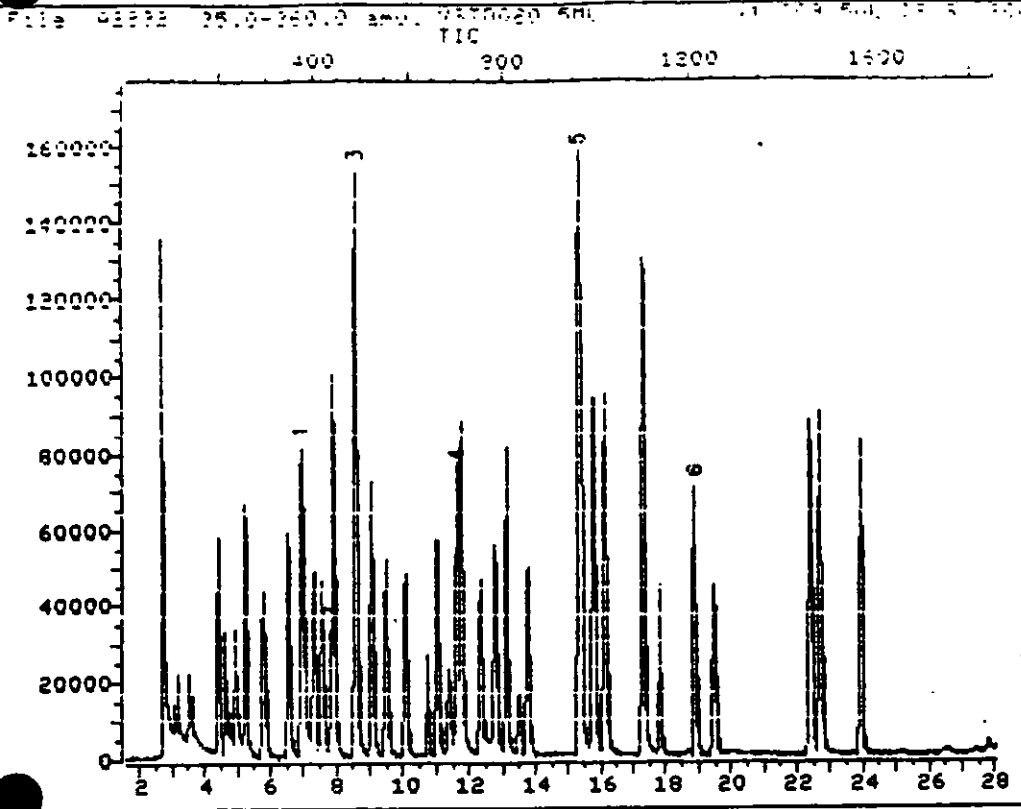
Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

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

LAB FILE ID: RRF20 = 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
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	0.690	0.711	0.734	0.669	0.684	0.698	3.6
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	0.392	0.441	0.447	0.458	0.455	0.439	6.1
2-Chloroethylvinylether	0.181	0.199	0.224	0.217	0.277	0.220	16.4
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

21. ION CHROMATOGRAM



Data File: >A2832::D7

Quant Output File: ^A2832::QT

Name: USTD020 5ML

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

Id File: UOAI01::\$\$

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

000190

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::07                 Dilution Factor: 1.00000  
 Name: USTD020 5ML  
 Misc: U1 C09 5UL IS/S 20UL/20UML VOA A,B,HSL

ID File: VOAID1::\$\$  
 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	6.91	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-Dichloroethane	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)	*C110 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	20.90	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)	*C120 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	95
42)	C225 1,1,2,2-Tetrachloroethan	19.47	1252	87071	20.86	UG/L	94
43)	C215 1,1,1-Trichloroethane	12.27	1212	22774	23.55	UG/L	95

000191

	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

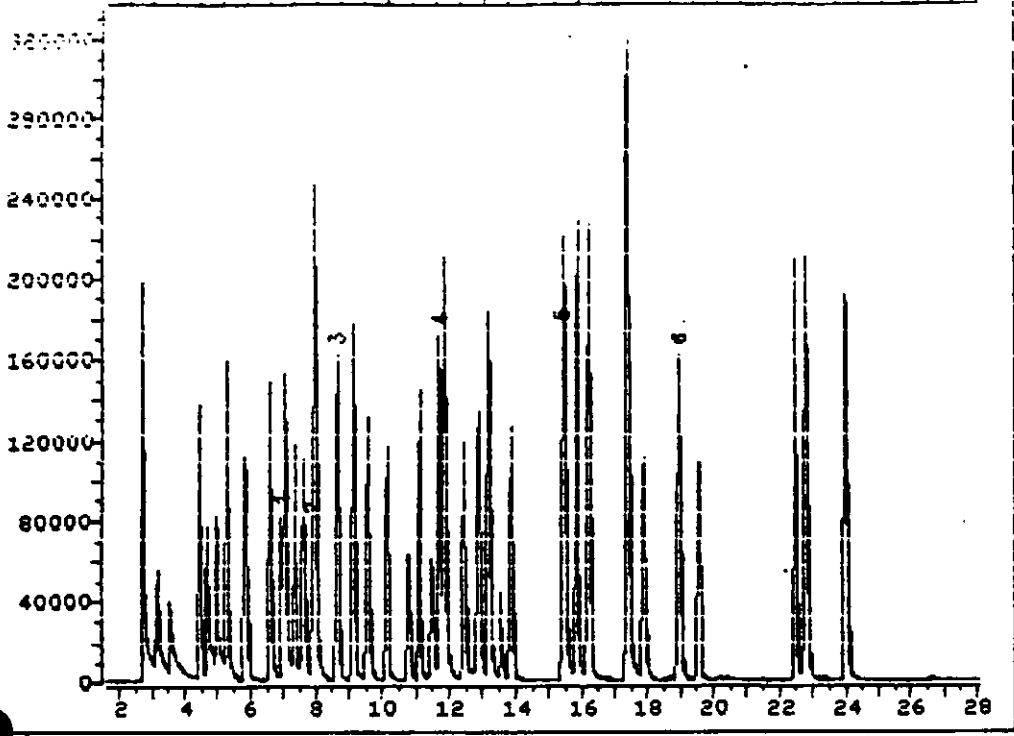
000192

TOTAL ION CHROMATOGRAM

File: A2831 35.0-360.0 min. VSTD050.FM 11/14/89 11:24

TIC

400 800 1200 1600



Data File: >A2831::D7

Quant Output File: ^A2831::QT

Name: VSTD050 5ML

Misc: U1 C09 5UL IS/S 25UL/100ML VOA A,B,HSL

Id File: VOAI01::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO

Last Calibration: 910828 22:18

Operator ID: MANAGER

Quant Time: 910829 11:24

Injected at: 910829 10:55

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::D7                      Dilution Factor: 1.00000  
 Name: USTD050 5ML  
 Disc: U1 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-Trichloroethane	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	58.81	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	99
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
43)	C215 1,1,1,2-Tetrachloroethan	19.24	1215	195100	48.13	UG/L	87

000199

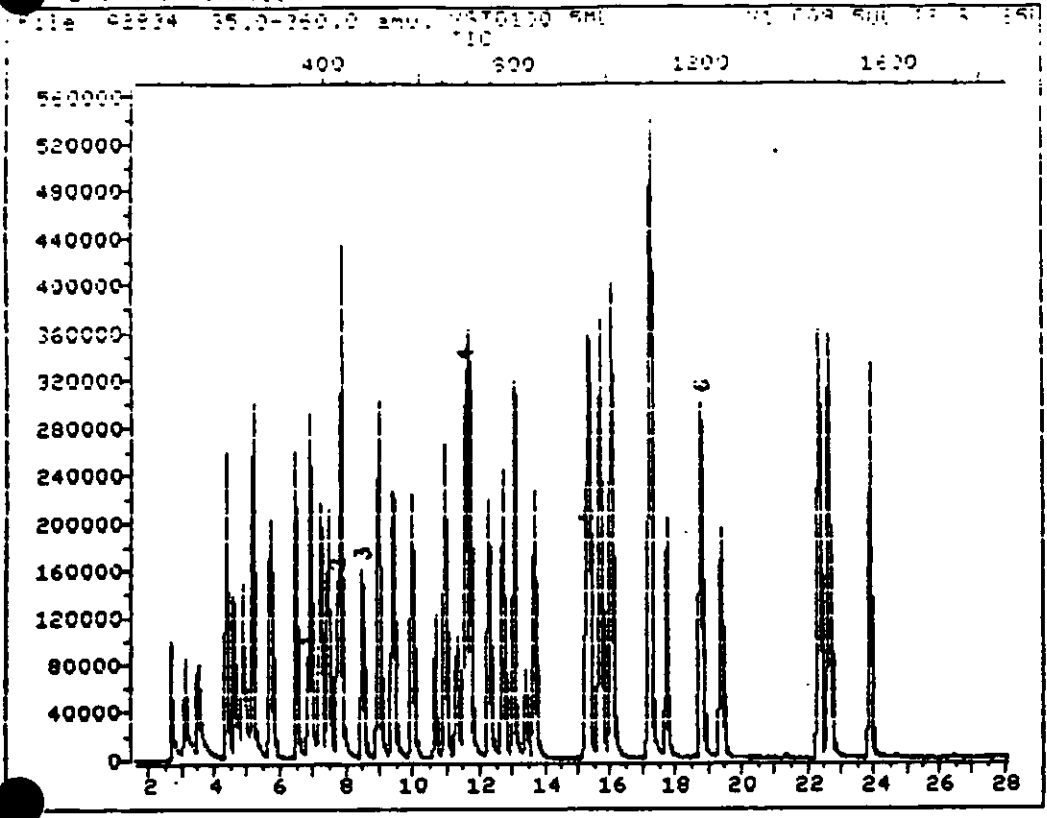


	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	C335 Dichlorobenzene ( m )	22.46	1461	329306	53.35	UG/L	100
45)	C340 Dichlorobenzene ( p )	22.77	1483	330127	53.70	UG/L	100
46)	C350 Dichlorobenzene ( o )	23.99	1568	311538	53.35	UG/L	100
47)	C250 Xylene (Total)	17.34	1103	208136	54.12	UG/L	97

\* Compound is ISTD

000195

AL ION CHROMATOGRAM



Data File: >A2834::D7

Quant Output File: ^A2834::QT

Name: USTD100 5ML

Misc: U1 C09 5UL IS/S 25UL/50 ML UOA A,B,HSL

Id File: UOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: MANAGER

Quant Time: 910829 14:15

Injected at: 910829 13:46

QUANT REPORT

Operator ID: MANAGER  
 Output File: ^A2834::QT  
 Data File: >A2834::D7  
 Name: USTD100 5ML

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

Disc: V1 C09 5UL IS/S 25UL/50 ML UOA A,B,HSL

ID File: UDAID1::\$\$  
 Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO  
 Last Calibration: 910829 11:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*C101 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 O4-1,2-Dichloroethane	7.74	431	289645	114.96	UG/L	89
17)	*C110 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	287461	90.00	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	468359	90.00	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)	*C120 O5-Chlorobenzene	15.23	955	307292	50.00	UG/L	100
32)	CS05 O8-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	90
42)	C225 1,1,2,2-Tetrachloroethan	19.39	1246	401319	94.66	UG/L	92
43)	CS10 Bis(2,2,2-Trifluoroethyl) ether (BFE)	18.79	1204	363887	102.43	UG/L	99

000197

	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

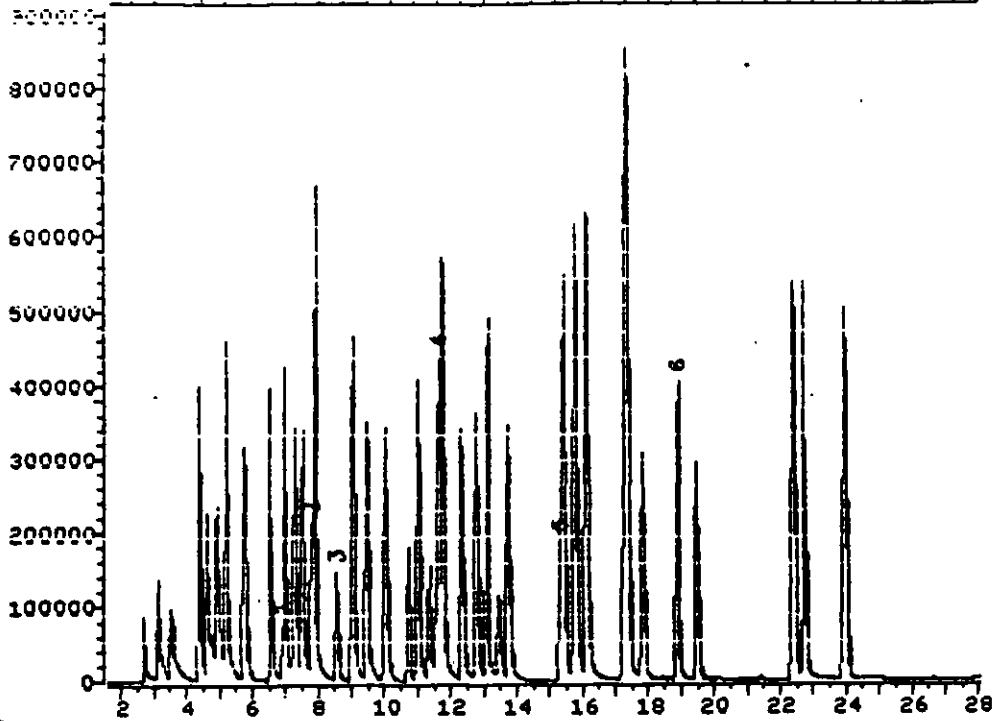
\* Compound is ISTD

000198

TOTAL ION CHROMATOGRAM

File 02235 05.10-160.0 and USTD150 5ML V1 C09 5UL 15.5 37.5  
IIC

400 800 1200 1600



Data File: >A2835::D7

Quant Output File: ^A2835::QT

Name: USTD150 5ML

Misc: U1 C09 5UL IS/S 37.5 /50 ML VOA A,B,HSL

Id File: VOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:U1:ERCO/ENSECO

Last Calibration: 910829 11:45

Operator ID: MANAGER

Quant Time: 910829 14:51

Injected at: 910829 14:22

000199

QUANT REPORT

Operator ID: MANAGER  
 Output File: ^A2835::QT  
 Meta File: >A2835::D7  
 Name: USTD150 5ML  
 Misc: U1 C09 5UL IS/S 37.5 /50 ML UOA A,B,HSL

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

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

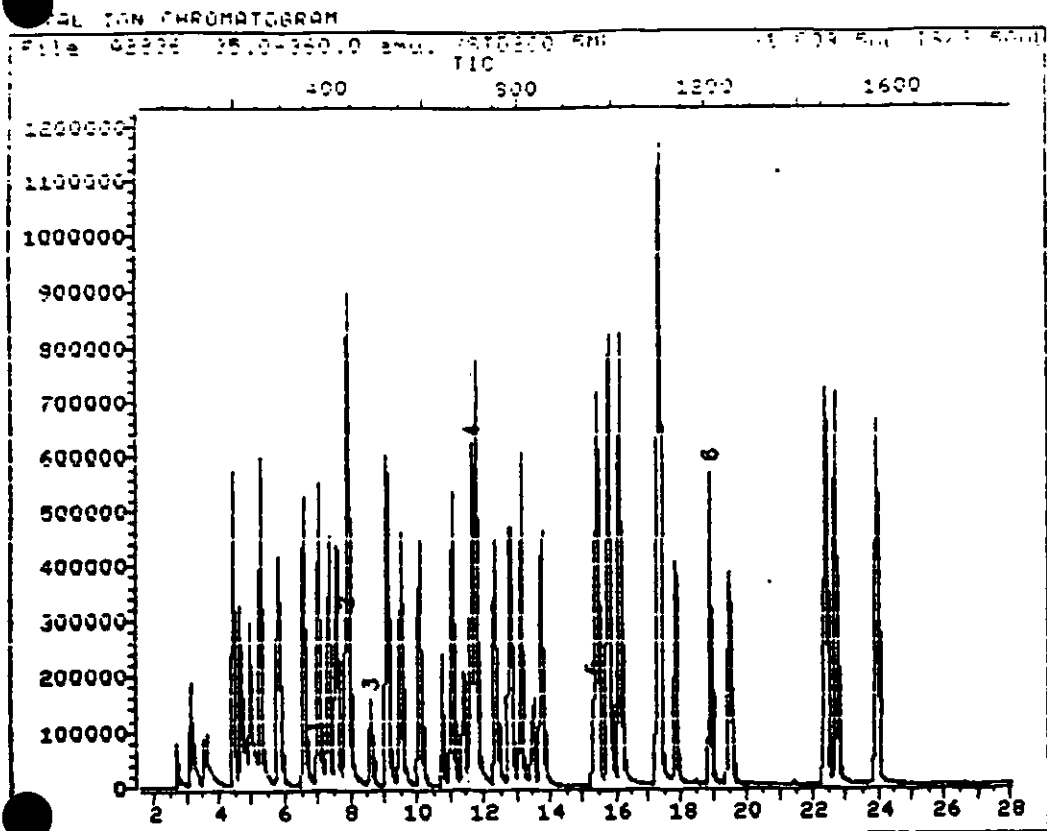
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*C101 Bromochloromethane	6.88	371	72149	50.00	UG/L	36
2)	C010 Chloromethane	3.05	103	215004	149.11	UG/L	99
3)	C020 Vinyl Chloride	3.16	111	278563	157.35	UG/L	89
4)	C015 Bromomethane	3.48	133	184548	162.72	UG/L	95
5)	C025 Chloroethane	3.58	140	176076	162.10	UG/L	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 O4-1,2-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	149.49	UG/L	92
23)	C140 1,2-Dichloropropene	9.47	552	445895M	155.67	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 O5-Chlorobenzene	15.31	960	283609	50.00	UG/L	100
32)	CS05 O8-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-Tetrachloroethane	19.46	1250	600989	153.59	UG/L	92

000200

	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

000201



Data File: >A2836::D7

Quant Output File: ^A2836::QT

Name: USTD200 5ML

Misc: U1 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

000202



QUANT REPORT

Operator ID: MANAGER  
 Output File: ^A2836::QT  
 Data File: >A2836::D7  
 Name: USTD200 5ML

Quant Rev: 6      Quant Time: 910829 15:27  
 Injected at: 910829 14:58  
 Dilution Factor: 1.00000

Insc: V1 C09 5UL IS/S 50UL /50 ML VDA A,B,HSL

ID File: VOAID1::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V1: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 04-1,2-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	196.19	UG/L	100
24)	C130 Bromodichloromethane	10.07	594	876560	205.14	UG/L	80
25)	C175 2-Chloroethylvinylether	10.74	641	357440	201.17	UG/L	96
26)	C143 Cis-1,3-Dichloropropen	11.04	662	977817	191.74	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 05-Chlorobenzene	15.32	961	293563	50.00	UG/L	100
32)	CS05 08-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

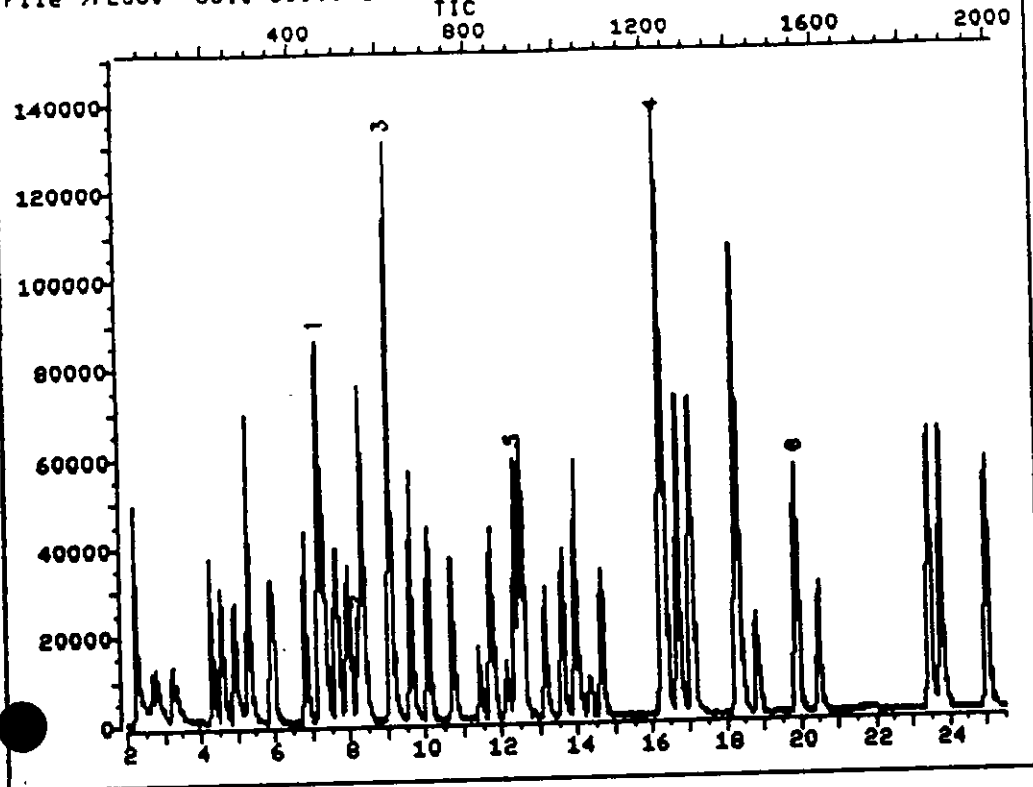
	Compound	R. T.	Scan#	Area	Conc	Units	q
14)	C335 Dichlorobenzene ( m )	22.40	1456	1092409	181.43	UG/L	100
15)	C340 Dichlorobenzene ( p )	22.72	1478	1096034	181.58	UG/L	100
16)	C350 Dichlorobenzene ( o )	23.93	1563	1021783	179.38	UG/L	100
17)	C250 Xylene (Total)	17.30	1099	711553	186.97	UG/L	97

\* Compound is ISTD

000204

TOTAL ION CHROMATOGRAM

File >F2560 35.0-300.0 amu. VSTD 20NG. 5ML. V6, CH#02, 5UL(20 IS



Data File: >F2560::D4  
Name: USTD 20NG. 5ML.  
Misc: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

Quant Output File: ^F2560::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: 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-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
	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

900206

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: USTD 20NG. 5ML.                      Instrument ID: U6  
 Inj: U6, CH#02, 5UL(20 IS/S), STD=20UL/200ML HSL,A,B+ MTBE

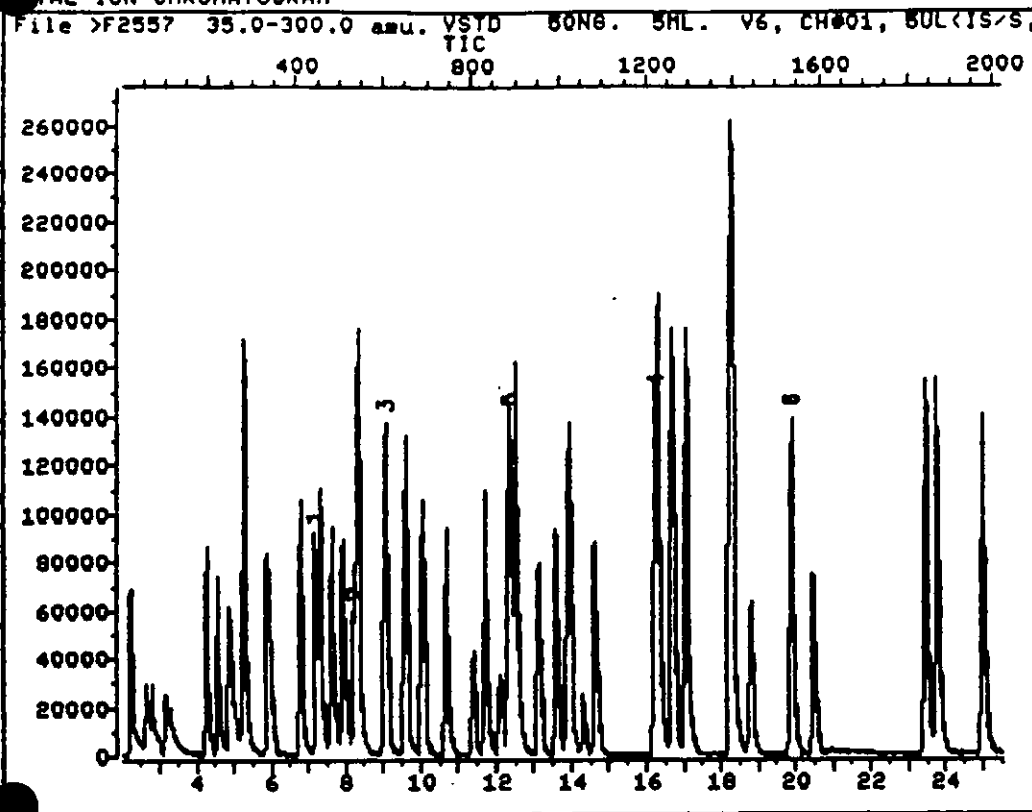
D File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 910922 11:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	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

000207

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

QUANT REPORT

Page 1

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
42)	CXXX Xylenes (o)	18.25	106.0	186544	47.97	UG/L	96

000209

QUANT REPORT

Page 2

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

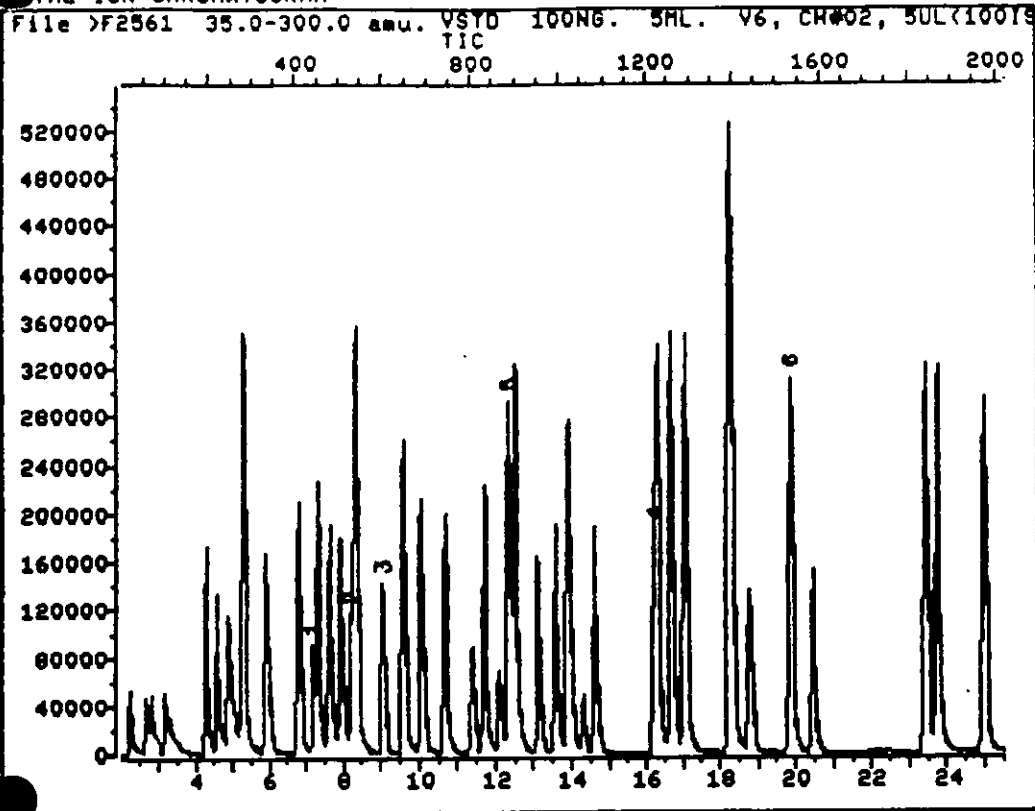
	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C225 1,1,2,2-Tetrachloroethane	20.48	83.0	182548	53.82	UG/L	96
45)	CS10 Bromofluorobenzene	19.88	95.0	221701	53.12	UG/L	76
46)	C335 Dichlorobenzene (m)	23.44	146.0	280976	60.57	UG/L	100
47)	C340 Dichlorobenzene (p)	23.77	146.0	255152	59.38	UG/L	100
48)	C350 Dichlorobenzene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

000210



TOTAL ION CHROMATOGRAM



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

000211

QUANT REPORT

Page 1

Operator ID: KERYLYNN  
 Output File: ^F2561::D7  
 Data File: >F2561::D4  
 Name: USTD 100NG. 5ML.

Quant Rev: 7      Quant Time: 910922 14:24  
 Injected at: 910922 13:57  
 Dilution Factor: 1.00000  
 Instrument ID: U6

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

Lab 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-Dichloroethane	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
	C030 Methylene Chloride	4.90	84.0	240774	103.03	UG/L	89
9)	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 Trichloroethane	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
	CS05 D8-Toluene	12.35	98.0	767265	91.84	UG/L	94
34)	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	97
41)	CXXX Xylenes (p)	17.04	106.0	397865M	87.59	UG/L	99
42)	CXXX Xylenes (o)	18.24	106.0	382484	82.70	UG/L	98

080212

QUANT REPORT

Page 2

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

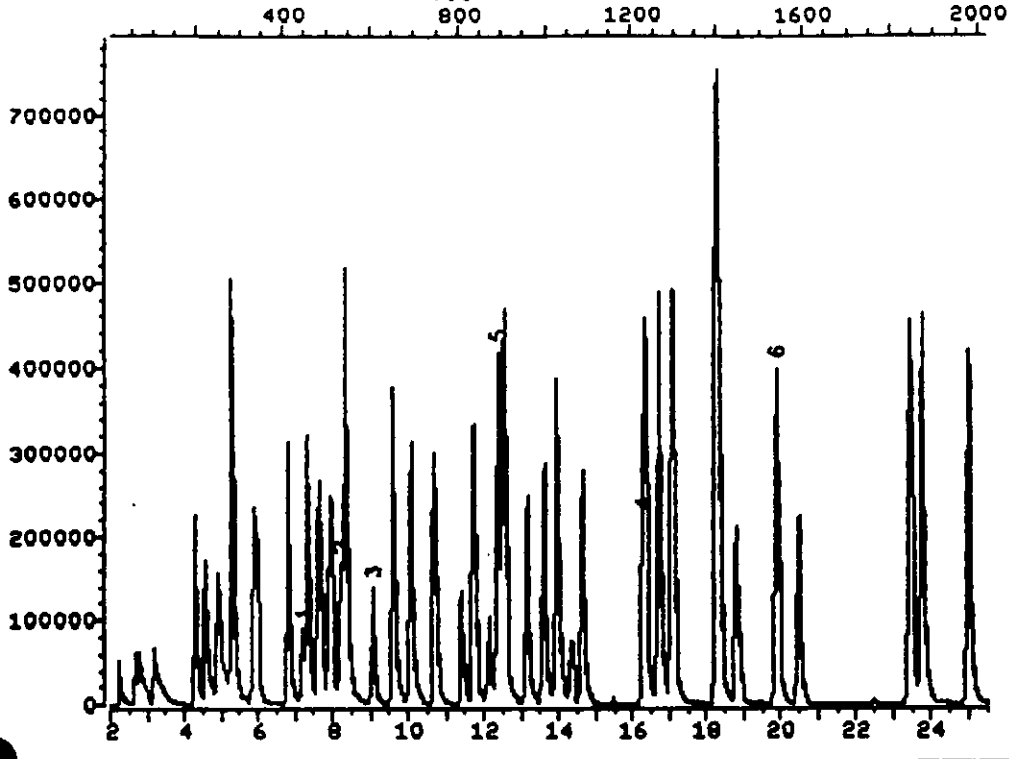
\* Compound is ISTD

000213

TAL ION CHROMATOGRAM

File >F2562 35.0-300.0 amu. VSTD 150NG. 5ML. U6, CH#02, 5UL(150IS

TIC



Data File: >F2562::D4

Quant Output File: ^F2562::D7

Name: VSTD 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

000214

QUANT REPORT

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

Quant Rev: 7  
 Quant Time: 910922 15:02  
 Injected at: 910922 14:35  
 Dilution Factor: 1.00000  
 Instrument ID: U6

D 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-Dichloropropene	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 O5-Chlorobenzene	16.26	117.0		289223	50.00	UG/L	100
34)	CS05 O8-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)	CXXX Xylenes (m)	18.26	106.0		540095	150.72	UG/L	96

000215

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

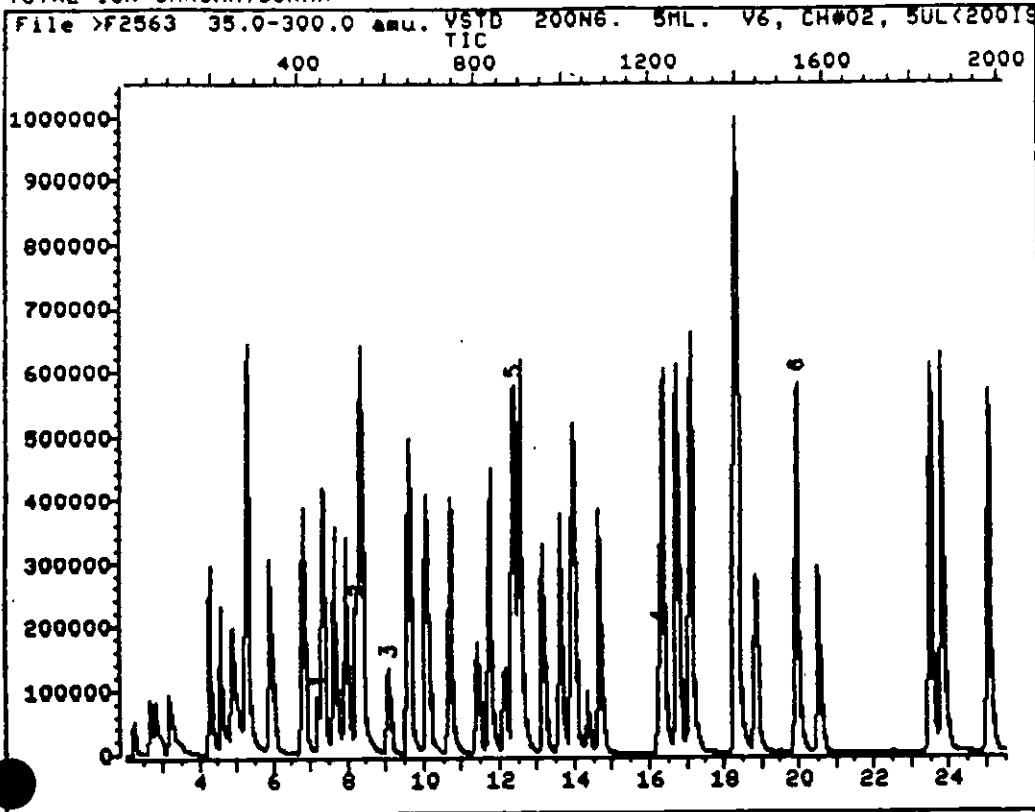
.D File: MOBID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
 Last Calibration: 910814 09:37                      Last Qcal Time: 910922 11:10

	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

000216

TOTAL ION CHROMATOGRAM



Data File: >F2563::D4                      Quant Output File: ^F2563::D7  
Name: USTD 200NG. 5ML.                      Instrument ID: U6  
Misc: V6, 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

QUANT REPORT

Operator ID: KERYLYNN  
 Output File: ^F2563::D7  
 Data File: >F2563::D4  
 Name: USTD 200NG. 5ML.  
 Disc: 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

D 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-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) *CI20 D5-Chlorobenzene	16.26	117.0	311099	50.00	UG/L	100
34) CS05 D8-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 Xulenes (a)	17.10	106.0	761941M	179.66	UG/L	99

000218



QUANT REPORT

Page 2

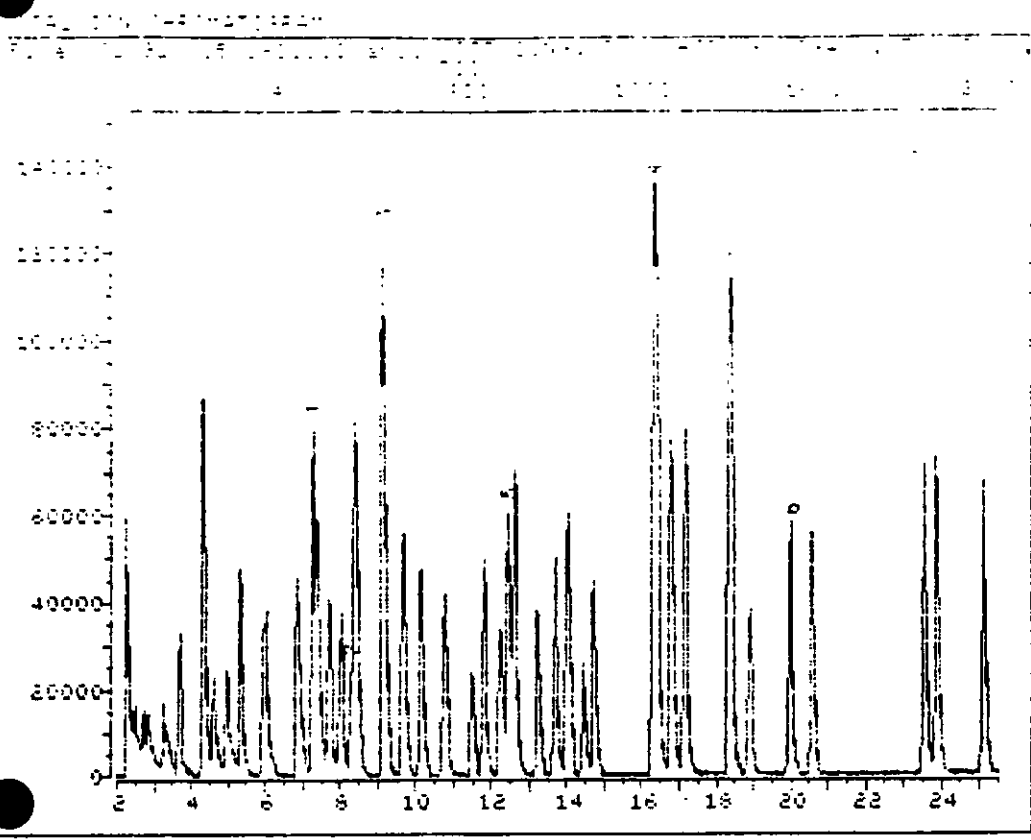
Operator ID: KERYLYNN                    Quant Rev: 7            Quant Time: 910922 15:57  
 Output File: ^F2563::D7                    Injected at: 910922 15:30  
 Data File: >F2563::D4                    Dilution Factor: 1.00000  
 Name: USTD 200NG. 5ML.                    Instrument ID: U6  
 Misc: 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

000219



Data File: >F2791::06                    Quant Output File: >F2791::07  
Name: USTD 20NG. 5ML. HTD.                Instrument ID: U6  
Misc: U6, CH#01, 5UL 1S/S, STD=20UL/200ML HSL,A,B,FREONS, 40  
  
Id File: HAMID6::MT  
Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCC/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

File: H-1106:INT  
 Name: HPL MOLTILES: 75m x 0.5mm: 500.0, 10 HTO EPC1 BR3300  
 Last Calibration: 910409 11:26  
 Last Seal Time: 911004 12:12

	Compound	R.T.	Q	Ion	Area	Conc	Units	z
1)	*C101 Bromochloromethane	2.24	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	18.95	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	78.0		117479	19.08	UG/L	100
12)	C030 Methylene Chloride	4.95	84.0		86037	21.40	UG/L	70
13)	C053 Trans-1,2-dichloroethene	5.32	96.0		57018	21.07	UG/L	94
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)	C015 D4-1,2-dichloroethane	8.27	65.0		60876	21.36	UG/L	83
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)	C005 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	97
41)	C240 Ethylbenzene	16.79	106.0		76620	21.57	UG/L	97
42)	CXXX Xylenes (p)	17.15	106.0		94026M	21.06	UG/L	97

000221

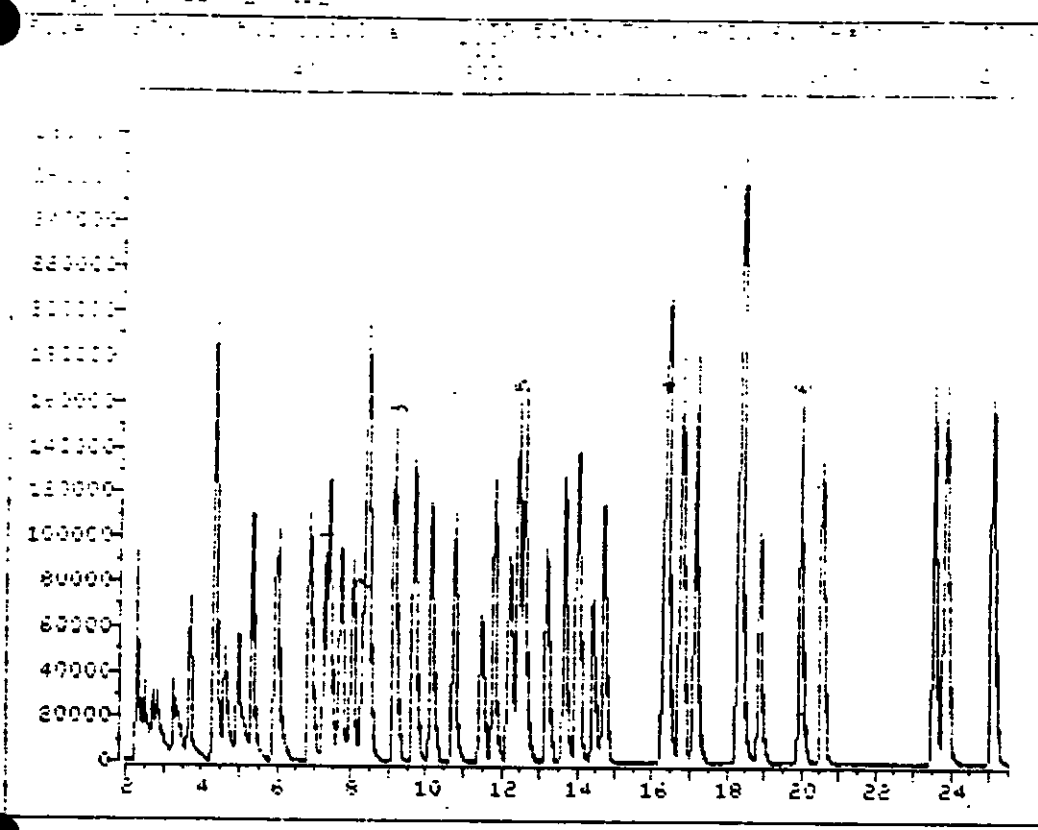
REPORT

Method: C10  
 File: H411210T  
 Date: 07/15/88  
 Time: 11:20  
 Instrument: 111  
 Path: C:\MSDCHEM\DATA\111\B10-1100-00001-01\H411210T

ID File: H411210T  
 Date: 07/15/88  
 Time: 11:20  
 Instrument: 111  
 Path: C:\MSDCHEM\DATA\111\B10-1100-00001-01\H411210T  
 Last Calibration: 910-15 11:20  
 Last Seal Time: 1111.4 11:15

	Compound	P.T.	Q Ion	Area	Conc	Units	g
44	C246 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	C810 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	88364	21.09	UG/L	91

\* Compound is ISTD



Data File: 9F2790::06                      Quant Output File: 9F2790::07  
Name: USTD 50MG, FML, 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 ERCD/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

1. File: 4104:01  
 2. File: Hal...  
 3. File: ...  
 4. File: ...  
 5. File: ...

1. File: 4104:01  
 2. File: Hal...  
 3. File: ...

	Compound	P.T.	Q Ion	Area	Conc	Units	
1)	*C101 Bromochloromethane	7.23	129.0	91942	50.00	UG/L	80
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	96
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)	C039 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	35
13)	C053 Trans-1,2-dichloroethene	5.31	96.0	138119	42.50	UG/L	91
14)	C055 Cis-1,2-dichloroethene	6.82	96.0	155755	43.97	UG/L	93
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)	C515 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)	C505 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

000224

10/17/98 11:14

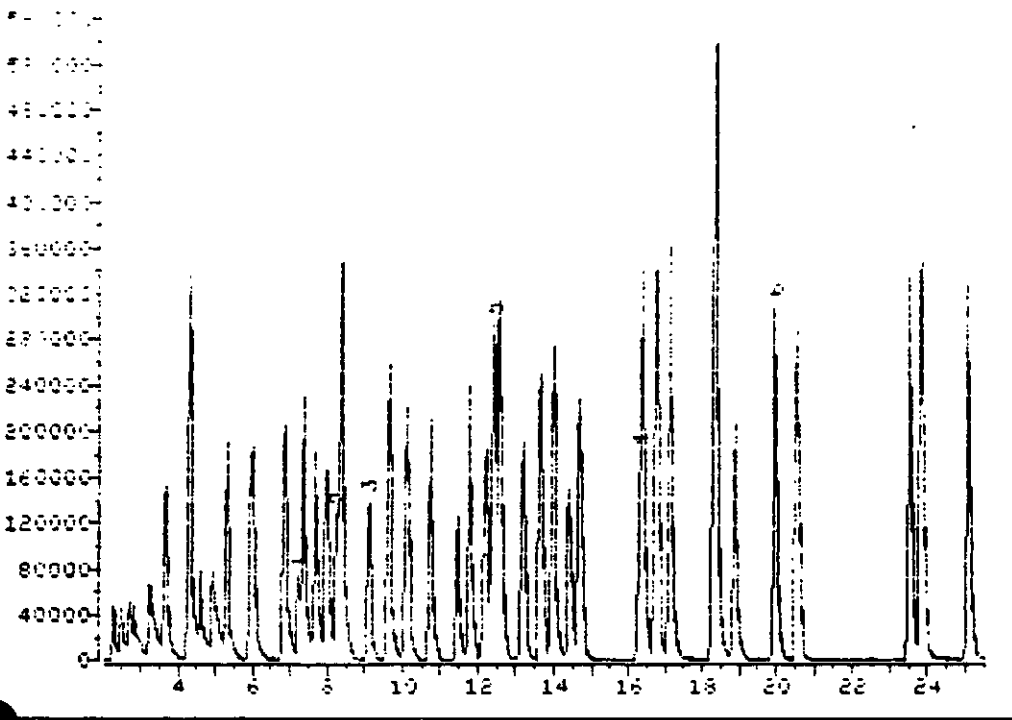
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Date: 10/17/98 11:14  
Time: 11:14:14  
Operator: J. J. J. J.  
Sample: 1014.D  
Method: 1014.D

File: F:\1014\1014.D  
Date: 10/17/98 11:14  
Time: 11:14:14  
Operator: J. J. J. J.  
Sample: 1014.D  
Method: 1014.D

	Compound	R.T.	Q Ion	Area	Conc	Units	
44)	C246 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)	C510 Bromofluorobenzene	19.95	95.0	253995	50.47	UG/L	72
47)	C335 Dichlorobenzene (m)	23.52	146.0	308235	43.56	UG/L	100
48)	C740 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	95

\* Compound is ISTD

000225



Data File: >P2793::06

Quant Output File: >P2793::07

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 ERCD/ENSECD

Last Calibration: 910408 11:20

Last Qual Time: 911004 12:08

Operator ID: KERYLYNN

Quant Time : 911008 10:39

Injected at: 911008 10:12

000226



Method: EPA 8210  
 Date: 11/15/98  
 File: H11111111  
 Station: 11111111  
 Instrument: 11111111  
 Operator: 11111111  
 Sample ID: 11111111

File: H11111111  
 File: H11111111  
 Last Calibration: 11/04/98 11:00  
 Last Cool Time: 11/04 11:00

	Compound	P.T.	Q Ion	Area	Conc	Units	Q
1)	*C0101 Bromochloromethane	7.20	128.0	79858	50.00	UG/L	89
2)	C012 Dichlorodifluoromethane	2.45	85.0	181340M	61.54	UG/L	93
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	138.87	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	99
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	66.80	UG/L	100
12)	C050 Methylene Chloride	4.92	84.0	224803M	95.10	UG/L	76
13)	C057 Trans-1,2-dichloroethene	5.29	96.0	235168	84.16	UG/L	95
14)	C055 Cis-1,2-dichloroethene	6.82	96.0	290493	94.02	UG/L	89
15)	C059 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)	C015 04-1,2-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 05-Chlorobenzene	16.29	117.0	324057	50.00	UG/L	100
35)	C005 08-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

000227

REPORT

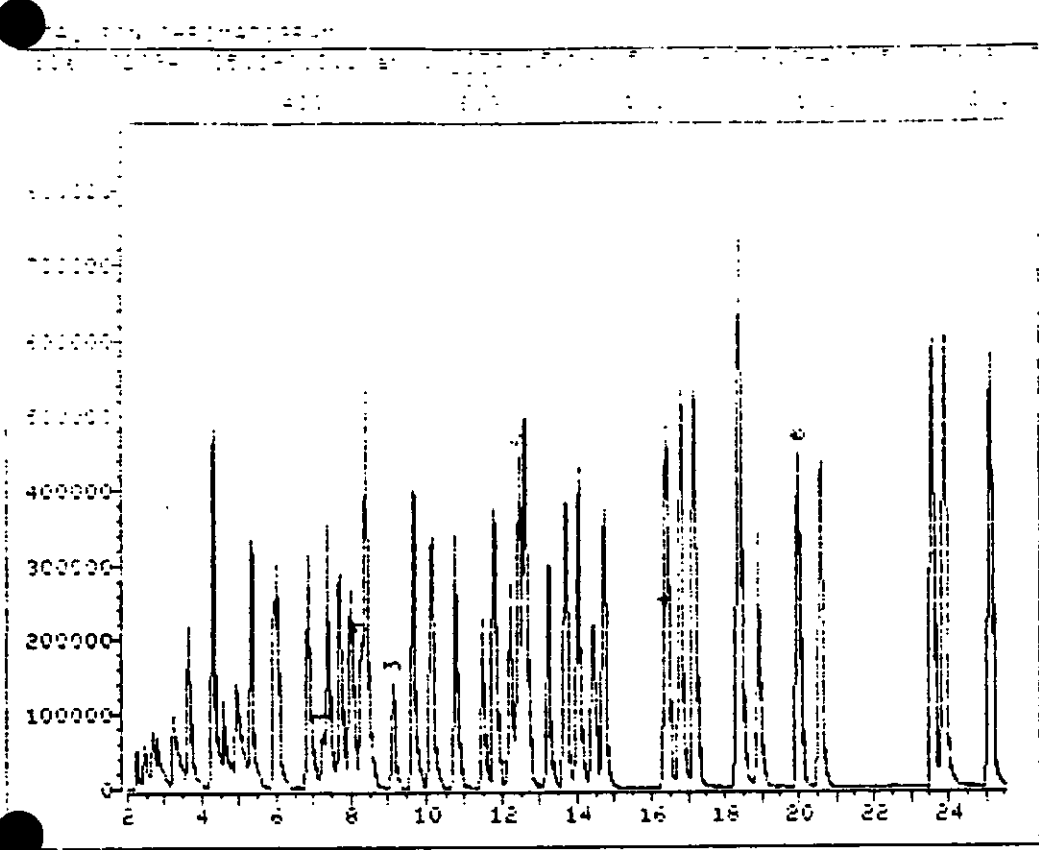
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File: H41126:07  
Title: ...  
Last Calibration: 4-10-88 11:30

File: H41126:07  
Title: ...  
Last Calibration: 4-10-88 11:30

	Compound	R.T.	Q Ion	Area	Conc	Units	Q
44)	C248 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)	C510 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



Data File: ^F2794::06                      Quant Output File: ^F2794::07  
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 12:09  
  
Operator ID: LIZ  
Quant Time : 911008 11:24  
Injected at: 911008 10:57

Operator: J. J. ...  
 Date: ...  
 File: ...  
 Method: ...  
 Instrument: ...

File: ...  
 Title: ...  
 Last Calibration: ...  
 Last Goal Time: ...

Peak	Compound	R.T.	Conc	Area	Conc	Units	...
1)	*C101 Bromochloromethane	2.23	123.0	80954	50.00	UG/L	32
2)	C012 Dichlorodifluoromethane	2.45	85.0	268633	87.76	UG/L	37
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	179.32	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	106
12)	C030 Methylene Chloride	4.73	84.0	379746	138.38	UG/L	56
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	95
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	98
42)	CXXX Xylenes (p)	17.16	106.0	636078M	135.66	UG/L	93

000230

11/07/88 11:20

Page 1

Sample File: C:\DATA\1107\110701.D  
 Title: VOLATILES  
 Date: 11/07/88  
 Name: STD 15 ING. PUL. HTD  
 Mass: 16,14=91.50, 15.8.51=37.71L, 500L HPL, 1.5.10L7F, 0.25F.5F

ID File: HM156:NT

Title: VOLATILES: 25m x 0.5mm: 502.0, 0.2 HTD 5000 EN500

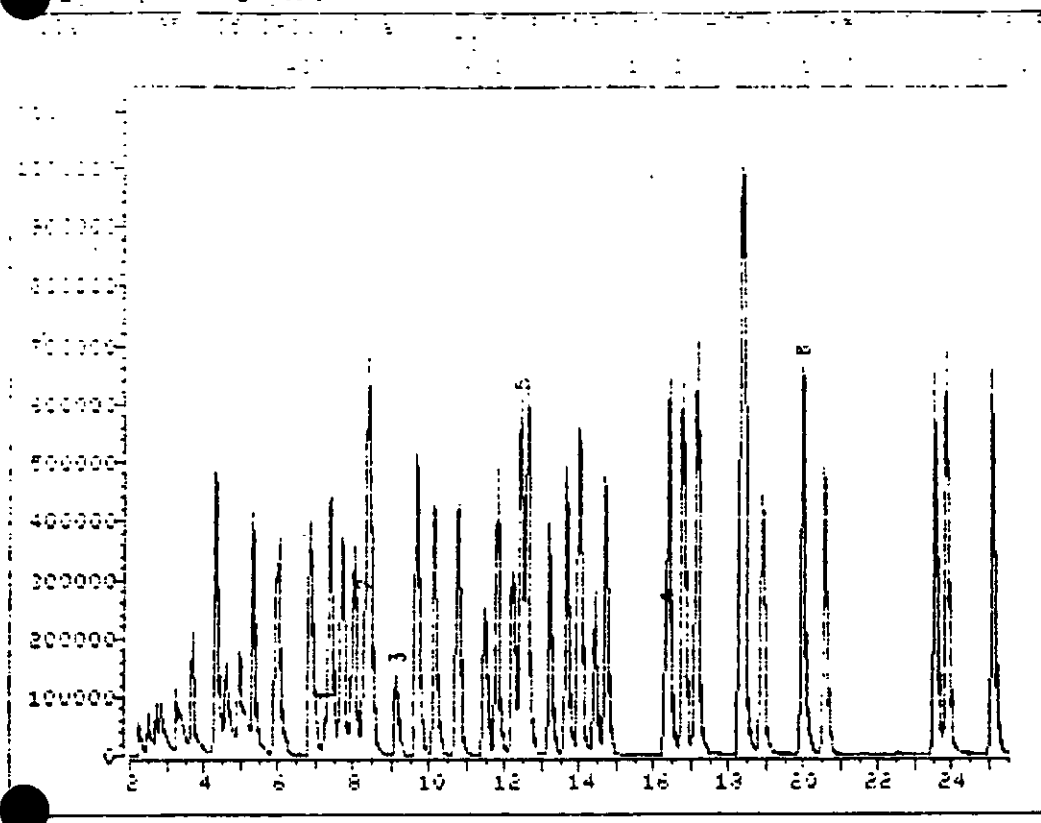
Last Calibration: 910408 11:20

Last Cal Time: 11/04 11:20

	Compound	P.T.	Q ion	Area	Conc	Units	g
44)	C045 Styrene	18.41	104.0	1130574	138.60	UG/L	100
45)	C025 1,1,2,2-Tetrachloroethane	20.56	83.0	1077249	164.04	UG/L	91
46)	C010 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)	C050 Xylenes (total)	18.35	106.0	610490M	138.01	UG/L	98

Compound is ISTD

000231



Data File: ^F2795::06                      Quant Output File: ^F2795::07  
Name: MSTD 200NG. FML. 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

Method: MS, ID#1, FILE IS 3 STD=ROUL 50ML HSL.H.E,CL3F,CL3F,100  
 Date: 05/11/2006 11:20  
 Operator: HSL  
 Instrument: 6890N  
 Integration: 1.00E+05  
 Scan Range: 40-300  
 Acquisition Mode: SIM  
 Acquisition Time: 05/11/2006 11:20  
 Sample Name: HSL-ROUL-11233

File: HSL-ROUL-11233  
 Last Calibration: 910408 11:20  
 Last Qual Time: 911004 12:13

Peak #	Compound	R.T.	Ion	Area	Conc	Units	g
1)	*C101 Bromochloromethane	7.23	129.0	83588	50.00	UG/L	37
2)	C012 Dichlorodifluoromethane	2.45	85.0	334776	108.54	UG/L	84
3)	C010 Chloromethane	2.68	59.0	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	97
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
	C035 Acetone	4.40	43.0	103359M	91.41	UG/L	15
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	96.0	504018	172.33	UG/L	91
14)	C055 Dis-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)	C015 04-1,2-dichloroethane	8.26	65.0	599075	194.48	UG/L	91
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	38
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	94
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 05-Chlorobenzene	16.31	117.0	334300	50.00	UG/L	100
	C005 08-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	94
42)	CXXX Xylenes (p)	17.14	106.0	826336M	168.63	UG/L	94

000233

11/17/88

Sample Name: BTD-1000G, PUL, -71  
Sample File: BTD-1000G  
Sample File: BTD-1000G  
Name: BTD-1000G, PUL, -71  
Date: 11/17/88  
Instrument: 101  
Lab: BTD-1000G, PUL, -71

ID File: MW1106:1117

Title: HPL WQ-FILES: 75-1, 10/17/88, 800.2, Wt H10, EP03, 8/1/80

Last Calibration: 8/1/88 11:20

Last Qual Time: 8/1/88 10:16

	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)	C510 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

000234



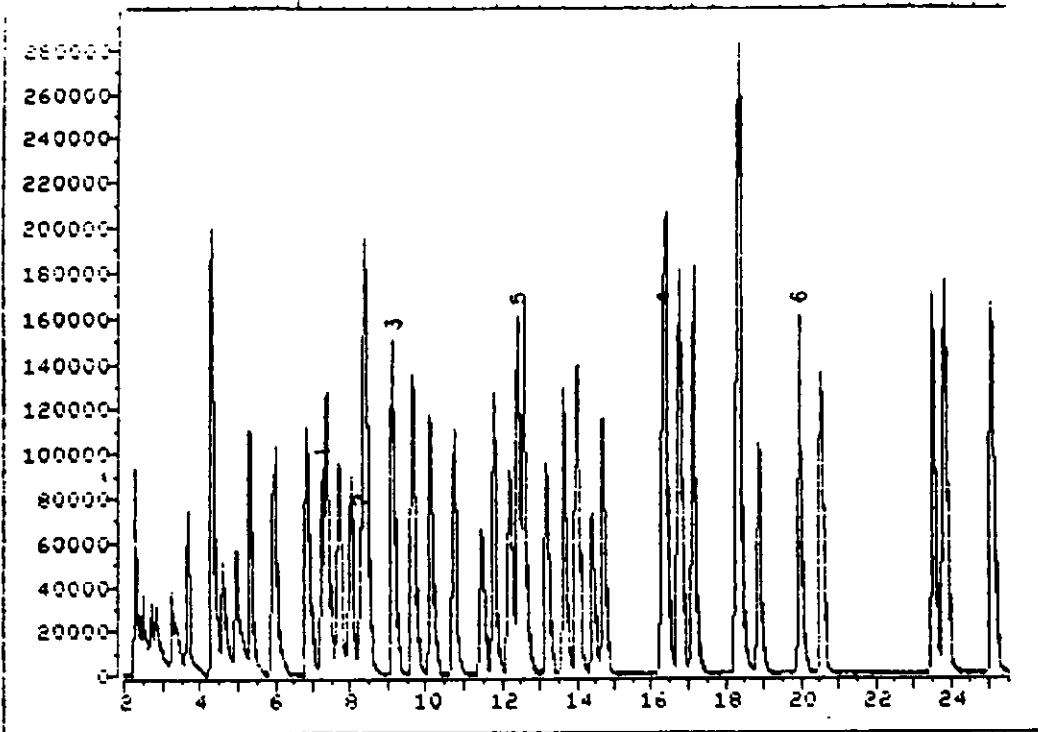
## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 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

TOTAL ION CHROMATOGRAM

File F2790 35.0-300.1 amu. V1TD EONS. 5ML. HTD.V6, CH#01, 5UL IS-S  
400 500 1000 1600 2000



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

000236

QUANT REPORT

Operator ID: KERYLYNN  
 Quant Prev: 7 Quant Time: 911003 13:05  
 Sample File: >F2790::07 Injected at: 911003 13:05  
 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

Q File: HAMID6::MT  
 Title: HSL VOLATILES: 75m x .53mm: 502.2, U6 HTD ERCD/ENSECO  
 Last Calibration: 910408 11:20 Last Qual Time: 911004 13:05

	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
	C038 1,1,2-Trichloro-1,2,2-tri	4.29	101.0	211081	79.85	UG/L	89
	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
	CS05 O8-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

000237

QUANT REPORT

Page 1

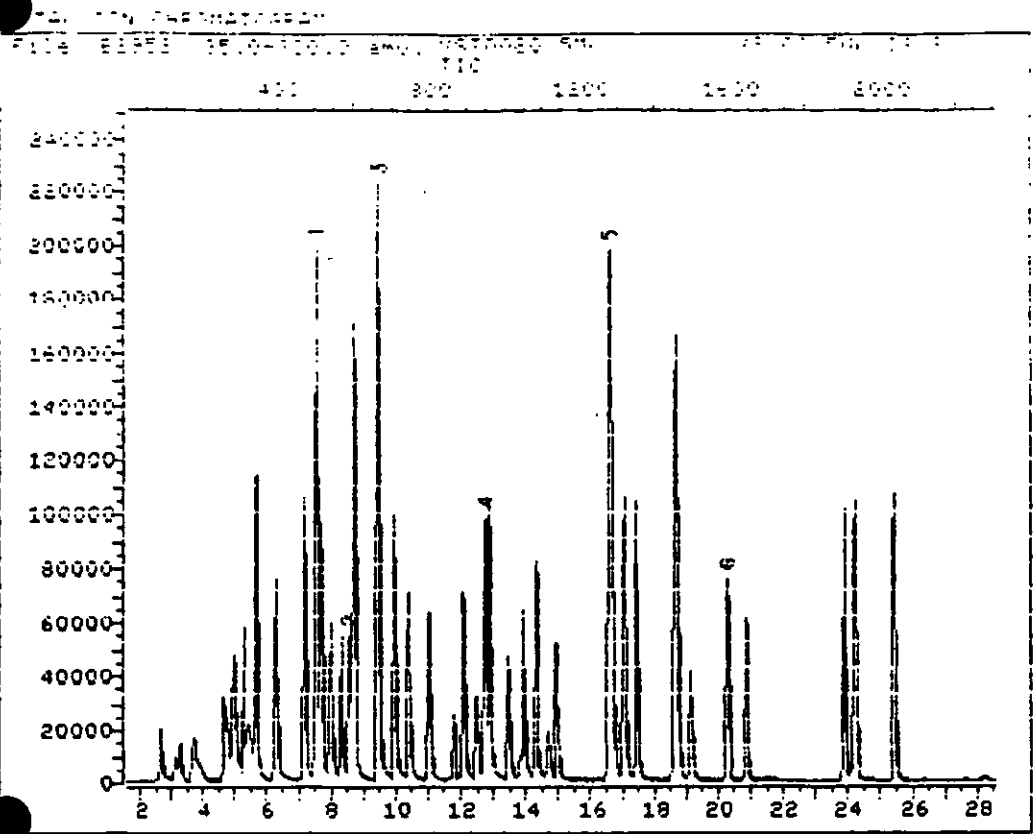
Operator ID: KERYLYNN                      Quant Rev: 7                      Quant Time: 911009 08:35  
 Output File: \F2790::D7                      Injected at: 911008 08:05  
 Data File:     \F2790::D6                      Dilution Factor:                      1.00000  
 Name: USTD 50NG. FML. HTD.                      Instrument ID: 06  
 Use: 06, CH#01, FUL IS-S, STD=25UL 100ML HSL,A,B,FREQNS, 50

ID File: HAMID6::MT  
 File: 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	18.37	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

*Handwritten:* 100051



Data File: >B2952::D6  
 Name: VSTD020 5ML  
 Misc: U2 C3 5UL IS/S

Quant Output File: >B2952::Q1

Id File: VDAID2::\$\$  
 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

REPORT

Operator: JG: JG: JG  
 Output File: 004021101  
 Data File: 1609021106  
 Name: 0510020 SUL  
 Misc: 02 L3 SUL 1575  
 Sample Name: 0510020  
 Sample Weight: 0.0000  
 Dilution Factor: 1.00000

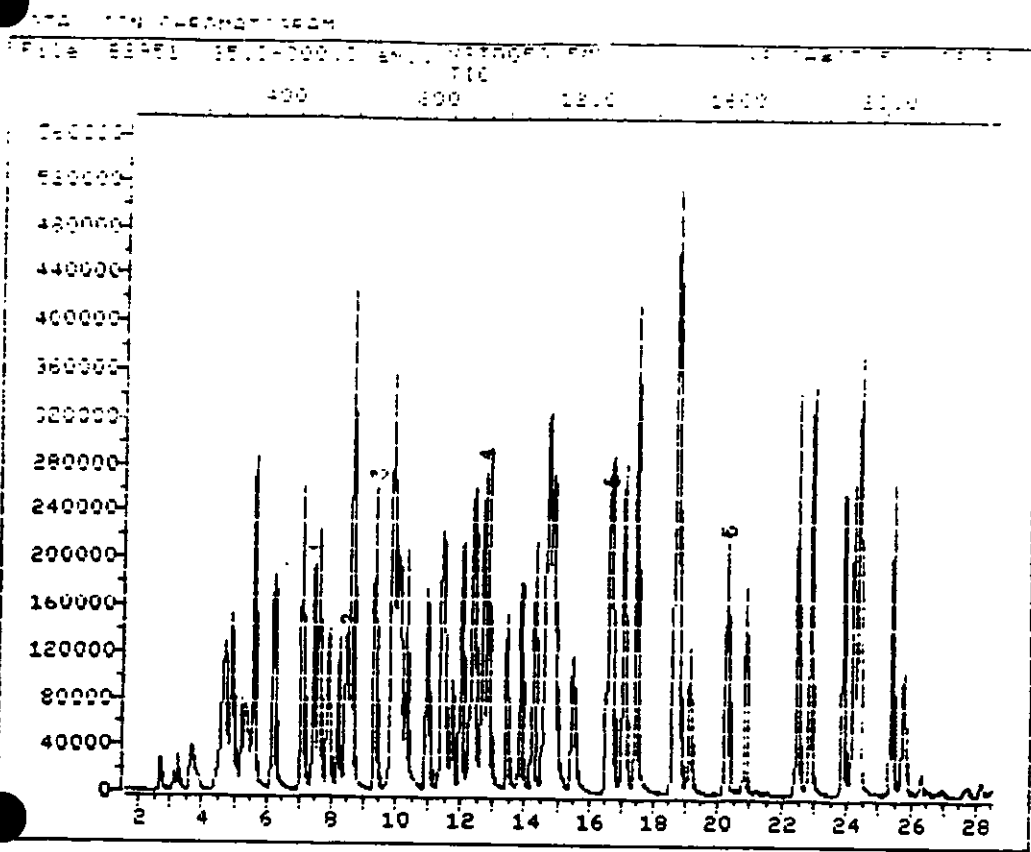
ID File: 004021101  
 Title: HSL VULFILES:105mmx.50mm:06624:02:ERLÜZENBELU  
 Last Calibration: 910829 00:11

	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)	C015 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	18.92	UG/L	97
31)	*C120 D5-Chlorobenzene	16.57	117.0	367336	50.00	UG/L	100
32)	C005 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	87
43)	C010 Bromofluorobenzene (BFB)	20.26	95.0	98625	21.91	UG/L	87

000240

Retention Time	Compound	Peak	Area	Height	Width	Integration
17.17	m-DCB	17.17	146.0	100000	10.00	100
24.18	p-DCB	24.18	146.0	100000	10.00	100
29.41	o-DCB	29.41	146.0	100000	10.00	100
47.00	Xylene (total)	47.00	106.0	111069	24.28	95

\* Compound is ISID



Data File: >B2951::D6  
 Name: USTD050 5ML  
 Misc: U2 CH#07 5UL IS/S

Quant Output File: >B2951::OT

Id File: UVAID2::\$\$  
 Title: HSL VOLATILES:105mmx.53mm:DB624:U2:ERCO/ENSECO  
 Last Calibration: 910829 00:11

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



DATA FILE

Operator: JG  
 Input File: E0401101  
 Data File: E0401106  
 Name: 0510050 50L  
 Misc: 02 LR#07 50L 15 5

Quant Method: Quant Method  
 Injected vol: 0.1000 mL  
 Dilution Factor: 1.00000

ID File: 004102:11  
 Title: HPL MCLATILES:105mmx.53mm:DB624:02:ERDDPENSELU  
 Last Calibration: 210829 00:11

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101	7.44	128.0		132167	50.00	UG/L	81
2)	C010	3.08	50.0		54447	26.98	UG/L	98
3)	C020	3.21	62.0		112846	45.99	UG/L	88
4)	C015	3.62	94.0		114612	55.58	UG/L	93
5)	C025	3.82	64.0		83450	49.50	UG/L	97
6)	C045	4.68	96.0		148196	43.39	UG/L	98
7)	C035	4.65	43.0		184082	75.96	UG/L	100
8)	C040	4.90	76.0		658896	47.39	UG/L	100
9)	C030	5.18	84.0		69839	10.86	UG/L	84
	C053	5.57	96.0		249393	49.38	UG/L	97
11)	C055	7.05	96.0		274344	56.08	UG/L	94
12)	C050	6.15	63.0		480279	47.64	UG/L	85
13)	C060	7.58	83.0		468229	50.34	UG/L	96
14)	C065	8.60	62.0		309849	46.51	UG/L	100
15)	C110	7.08	43.0		149911	169.99	UG/L	96
16)	C015	8.46	65.0		210883	43.15	UG/L	81
17)	*C110	9.34	114.0		607975	50.00	UG/L	100
18)	C125	6.25	43.0		595453	56.72	UG/L	98
19)	C115	7.91	97.0		274393	37.51	UG/L	91
20)	C120	8.21	117.0		253246	37.95	UG/L	97
21)	C165	8.58	78.0		771706	46.37	UG/L	100
22)	C150	9.86	130.0		253256	51.81	UG/L	99
23)	C140	10.31	63.0		259303	43.25	UG/L	100
24)	C130	10.94	83.0		357676	46.65	UG/L	98
25)	C175	11.69	63.0		128078	37.07	UG/L	93
26)	C143	12.01	75.0		397955	52.26	UG/L	95
27)	C172	13.43	75.0		267830	43.95	UG/L	100
28)	C160	13.87	97.0		199810	50.16	UG/L	92
29)	C155	14.91	129.0		276425	52.70	UG/L	99
30)	C180	19.12	173.0		195648	49.51	UG/L	97
31)	*C120	16.57	117.0		454894	50.00	UG/L	100
32)	C005	12.65	98.0		600575	46.02	UG/L	95
33)	C205	12.43	43.0		260803	21.94	UG/L	84
34)	C230	12.83	92.0		399745	45.84	UG/L	96
	C210	14.64	43.0		144652	20.49	UG/L	99
36)	C220	14.25	164.0		183139	51.18	UG/L	89
37)	C235	16.65	112.0		474314	51.06	UG/L	94
38)	C240	17.05	106.0		219923	47.37	UG/L	97
39)	CXXX	17.43	106.0		257928	45.99	UG/L	98
40)	CXXX	18.60	106.0		276800	48.79	UG/L	93
41)	C245	18.66	104.0		446756	49.25	UG/L	90
42)	C225	20.83	83.0		388993	42.26	UG/L	93

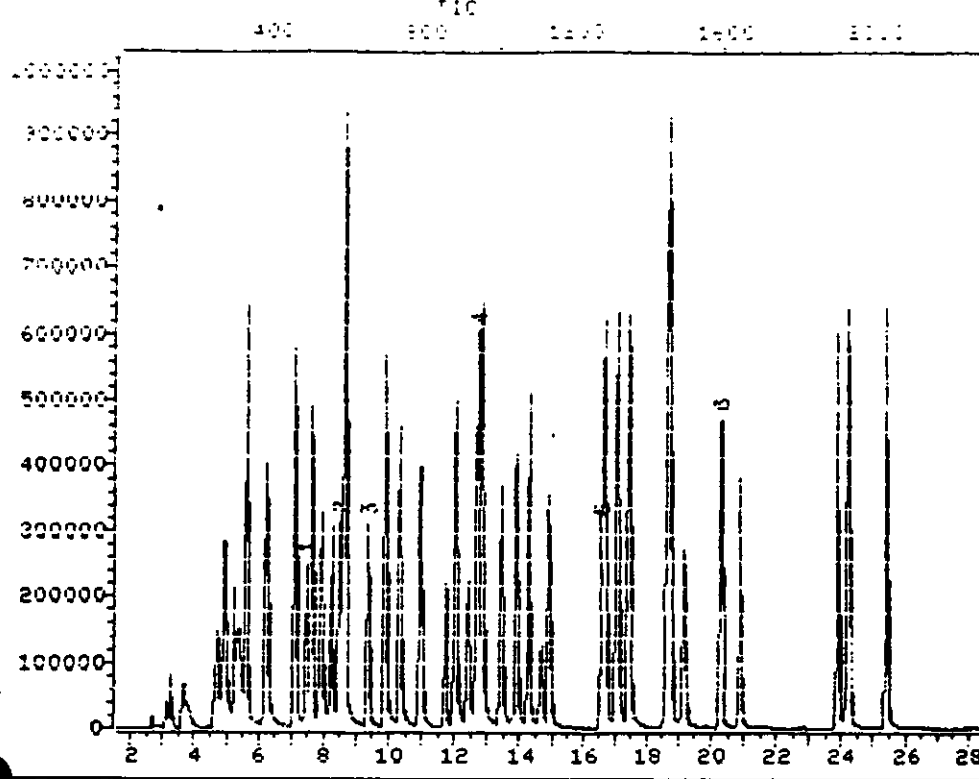
000249

Retention Time	Compound	Area	Height	Area	Height	Area	Height
17.10	1,2-Dichlorobenzene	17.10	147.0	17.10	147.0	17.10	147.0
17.40	1,3-Dichlorobenzene	17.40	146.0	17.40	146.0	17.40	146.0
17.70	1,4-Dichlorobenzene	17.70	146.0	17.70	146.0	17.70	146.0
18.60	Xylene (Total)	18.60	106.0	18.60	106.0	18.60	106.0

\* Compound is 1,3-D

FILE: 00140000000000

File: B2955 05.10-100.11 and 100.11000000000000



Data File: ^B2955::06

Quant Output File: ^B2955::01

Name: USID100 5ML

Misc: V2 CH#13 5UL IS/S

Id File: UOAI02::\$\$

Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO

Last Calibration: 911011 20:54

Operator ID: NDRA

Quant Time: 911011 21:47

Injected at: 911011 21:16

000245

Operator: JG: RUMH

Output File: 182956:101  
 Data File: 182956:106  
 Name: 0510100 SUL  
 Misc: 02 LH#13 SUL 1545

Quant: 100.00      Quant: 100.00  
 Injected at: 911011 21:16  
 Dilution Factor: 1.00000

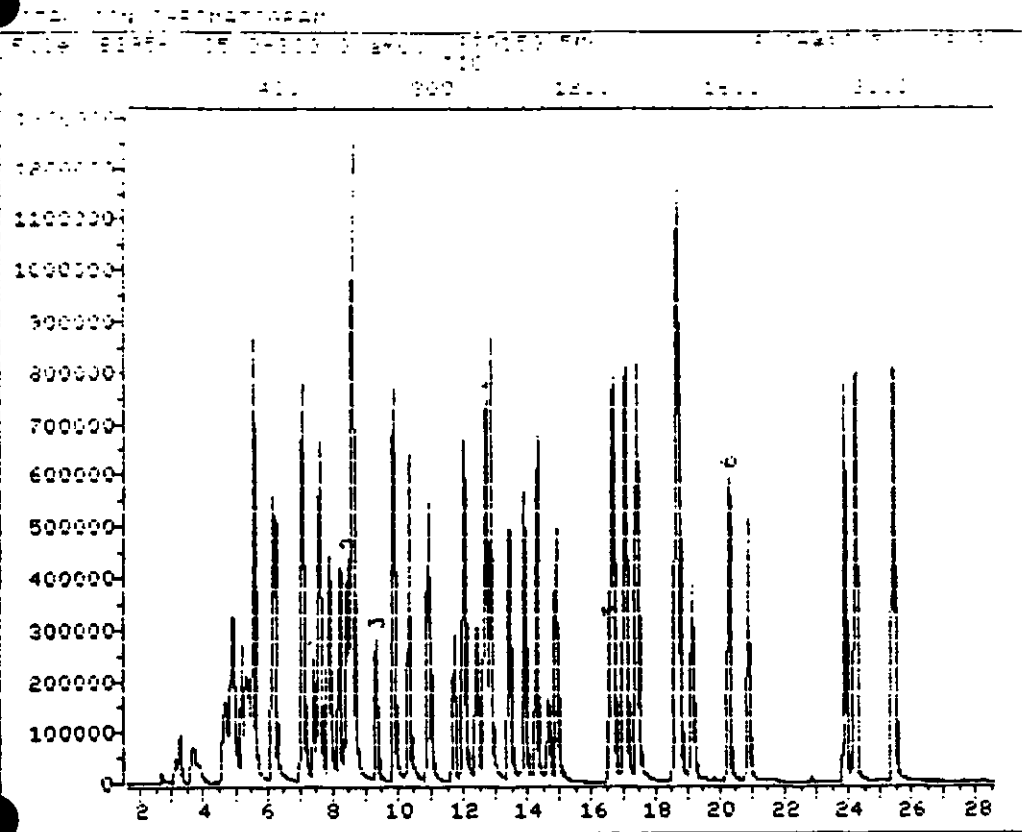
IL File: 00A102:1\$1  
 Title: HSE VOLATILES:105mmx.53mm:08624:02:ERDD/ENSELU  
 Last Calibration: 911011 20:54

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101	2.45	128.0		162023	50.00	UG/L	80
2)	C010	3.08	50.0		152111	113.95	UG/L	99
3)	C020	3.21	62.0		287133	103.78	UG/L	87
4)	C015	3.63	94.0		198927	70.79	UG/L	92
5)	C025	3.81	64.0		159399	77.91	UG/L	94
6)	C045	4.60	96.0		75232	20.71	UG/L	94
7)	C035	4.66	43.0		99259	28.17	UG/L	100
8)	C040	4.92	76.0		1449057	89.70	UG/L	100
9)	C030	5.20	84.0		190922	111.50	UG/L	88
10)	C053	5.57	96.0		578426	94.60	UG/L	97
11)	C055	7.06	96.0		631526	93.89	UG/L	89
12)	C050	6.17	63.0		1064475	90.40	UG/L	90
13)	C060	7.60	85.0		1040575	90.64	UG/L	88
14)	C065	8.61	62.0		702437	92.46	UG/L	100
15)	C110	7.10	43.0		296318	80.62	UG/L	95
16)	CS15	8.47	65.0		486551	94.10	UG/L	82
17)	*C110	9.35	114.0		720617	50.00	UG/L	100
18)	C125	6.25	43.0		1327889	94.07	UG/L	99
19)	C115	7.92	97.0		640995	98.54	UG/L	92
20)	C120	8.22	117.0		612243	101.98	UG/L	98
21)	C165	8.58	78.0		1648423	90.11	UG/L	100
22)	C150	9.87	130.0		601110	100.13	UG/L	99
23)	C140	10.32	63.0		631434	102.72	UG/L	100
24)	C130	10.94	83.0		839058	98.96	UG/L	82
25)	C175	11.70	63.0		341631	112.52	UG/L	97
26)	C143	12.02	75.0		974344	109.48	UG/L	94
27)	C172	13.42	75.0		644635	93.41	UG/L	100
28)	C160	13.88	97.0		460975	97.32	UG/L	72
29)	C155	14.91	129.0		646440	98.65	UG/L	97
30)	C180	19.12	173.0		440022	94.87	UG/L	97
31)	*C120	16.56	117.0		536074	50.00	UG/L	100
32)	CS05	12.66	98.0		1334719	94.29	UG/L	87
33)	C205	12.42	43.0		606224	98.62	UG/L	85
34)	C230	12.84	92.0		982597	104.29	UG/L	85
35)	C210	14.64	43.0		334809	98.20	UG/L	98
36)	C220	14.25	164.0		450223	104.30	UG/L	88
37)	C235	16.64	112.0		1123494	100.50	UG/L	78
38)	C240	17.05	106.0		518655	100.06	UG/L	97
39)	CXXX	17.43	106.0		642240	105.65	UG/L	95
40)	CXXX	18.61	106.0		631530	96.80	UG/L	99
41)	C245	18.67	104.0		1066755	101.31	UG/L	100
42)	C225	20.84	83.0		851411	92.87	UG/L	94

000246

Peak	Retention Time (min)	Compound	Area	Height	Width	Integration
22	0.38	Monochlorobenzene (m)	17.12	146.0	1.75	0.00
23	0.40	Bichlorobenzene (p)	24.17	146.0	1.20	0.00
24	0.50	Dichlorobenzene (o)	25.16	146.0	1.01	0.00
4	0.250	Xylene (total)	16.61	106.0	5.27	0.00

\* Compound is 1510



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

Id File: VOID2::\$\$  
 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

Output File: C:\MSDCHEM\101  
 Data File: C:\MSDCHEM\101  
 Name: 0510150 50L  
 Misc: 02 CR#13 50L 15 5

Quant Method: GC/MS  
 Injected amt: 1.000000  
 Dilution Factor: 1.000000

ID File: 05A100:11  
 Title: HSE VOLATILES:105mmx.50mm:DB624:02:ERCO/ENSECU  
 Last Calibration: 911011 20:54

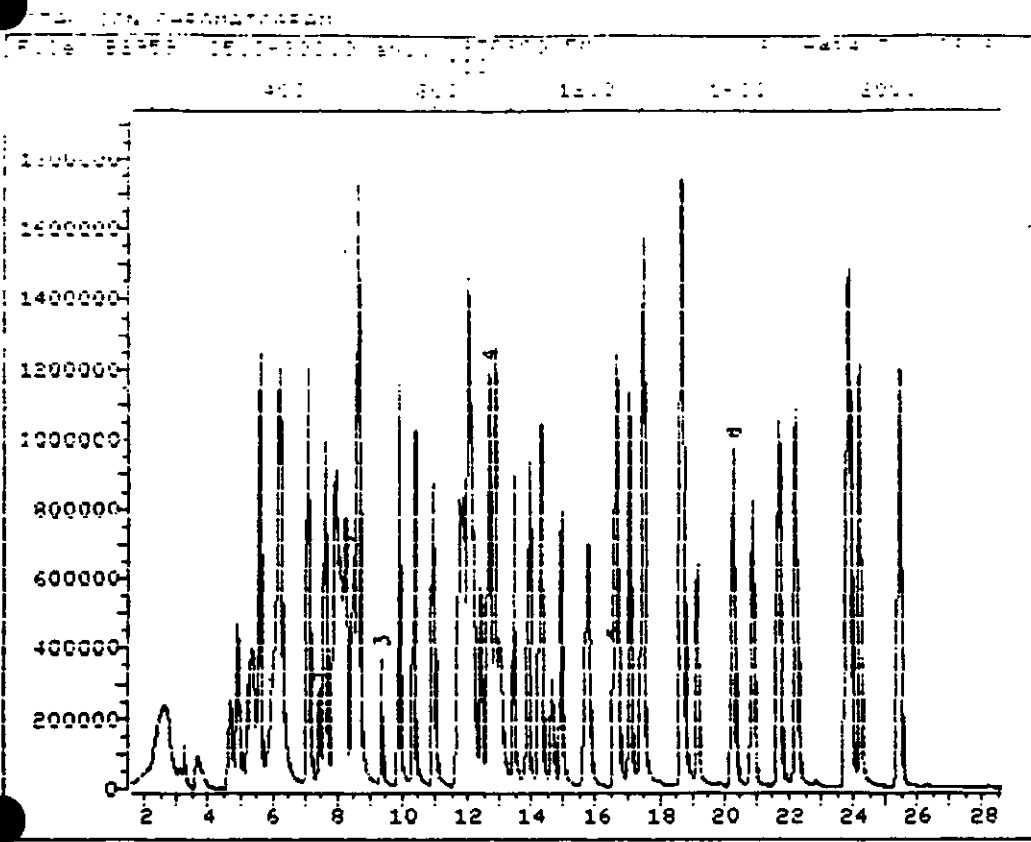
	Compound	P.T.	Concn	Area	Conc	Units	g
1)	*C101 Bromochloromethane	2.42	128.0	158267	50.00	UG/L	79
2)	C010 Chloromethane	3.10	50.0	206729	158.54	UG/L	97
3)	C020 Vinyl Chloride	3.24	62.0	378399	140.01	UG/L	88
4)	C015 Bromomethane	3.65	94.0	257677	93.87	UG/L	94
5)	C025 Chloroethane	3.85	64.0	207639	103.89	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)	C015 04-1,2-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-Dichloropropane	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 05-Chlorobenzene	16.56	117.0	471247	50.00	UG/L	100
32)	C005 08-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)	C010 Bromofluorobenzene (BFB)	20.76	96.0	796664	134.19	UG/L	82

000249

Compound	Area	Height	Area	Height	Area	Height
1111 1128 1,2-Dichlorobenzene (m)	23.06	100.0	1274.05	1274.05	1274.05	1274.05
1111 1128 1,2-Dichlorobenzene (p)	24.13	100.0	1284.07	1284.07	1284.07	1284.07
1111 1128 1,2-Dichlorobenzene (o)	25.41	100.0	1292.03	1292.03	1292.03	1292.03
1111 1128 1,2-Dichlorobenzene (total)	18.61	100.0	3559.41	3559.41	3559.41	3559.41

\* Compound is 1,2-D





Data File: >B2959::Do                    Quant Output File: ^B2959::QT  
 Name: USTD200 5ML  
 Misc: V2 CH#14 5UL IS/S

Id File: VDAID2::\$\$  
 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

Operator ID: MORA  
 Report File: B02041101  
 Data File: B02041106  
 Name: MS10200 BNL  
 Misc: V2 LH#14 BNL 1375

Quant Method: Quant Method  
 Injected Vol: Injected Vol  
 Dilution Factor: 1.00000

IO File: MORA00111\$  
 Title: BNL VOLFILES:105mmx.53mm:LB624:112:EMULDERNSB00  
 Last Calibration: 911011 20:54

	Compound	R.t.	U Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	2.44	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	172.55	UG/L	98
	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	7.50	83.0	2218189	174.76	UG/L	86
14)	C065 1,2-Dichloroethane	8.01	62.0	1510287	179.81	UG/L	100
15)	C110 2-Butanone	7.10	43.0	773030	190.22	UG/L	97
16)	C015 04-1,2-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 05-Chlorobenzene	16.55	117.0	603214	50.00	UG/L	100
32)	C005 08-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
	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	100
42)	C225 1,1,2,2-Tetrachloroethan	20.85	83.0	1888659	183.07	UG/L	96
43)	C010 Bromofluorobenzene (BFB)	20.26	95.0	1330538	180.35	UG/L	86

000252

Peak	Retention Time (min)	Compound	Area	Height	Area%	Height%
41	10.17	Dichlorobenzene (m)	181.02	140.0	1.17	1.17
42	11.40	Dichlorobenzene (p)	181.17	140.0	1.17	1.17
43	11.50	Dichlorobenzene (o)	181.17	140.0	1.17	1.17
47	12.50	Xylene (total)	181.01	100.0	125.00	124.14

\* Compound is 1510

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Instrument ID: V6 Calibration date: 10/05/91 Time: 1323Lab File ID: F2729 Init. Calib. Date(s): 09/22/91 09/22/91Matrix: (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	1.280	-2.7 #
Bromomethane	1.055	1.088	-3.1
Vinyl Chloride	* 1.258	1.211	3.7 *
Chloroethane	0.651	0.709	-8.9
Methylene Chloride	1.704	1.655	2.9
Acetone	0.211	0.259	-22.8
Carbon Disulfide	4.156	3.920	5.7
1,1-Dichloroethene	* 1.387	1.332	4.0 *
1,1-Dichloroethane	# 3.250	3.160	2.8 #
1,2-Dichloroethene (total)	1.727	1.647	4.6
Chloroform	* 3.857	3.725	3.4 *
1,2-Dichloroethane	2.171	2.174	-0.1
2-Butanone	0.111	0.151	-36.0
1,1,1-Trichloroethane	0.560	0.574	-2.5
Carbon Tetrachloride	0.479	0.476	0.6
Vinyl Acetate	0.538	0.618	-14.9
Bromodichloromethane	0.622	0.633	-1.8
1,2-Dichloropropane	* 0.407	0.420	-3.2 *
cis-1,3-Dichloropropene	0.603	0.625	-3.6
Trichloroethene	0.415	0.425	-2.4
Dibromochloromethane	0.501	0.522	-4.2
1,1,2-Trichloroethane	0.316	0.345	-9.2
Benzene	1.001	1.002	-0.1
trans-1,3-Dichloropropene	0.470	0.499	-6.2
2-Chloroethylvinylether	0.190	0.202	-6.3
Bromoform	# 0.302	0.312	-3.3 #
4-Methyl-2-Pentanone	0.332	0.418	-25.9
2-Hexanone	0.236	0.302	-28.0
Tetrachloroethene	0.430	0.478	-11.2
1,1,2,2-Tetrachloroethane	# 0.596	0.709	-19.0 #
Toluene	* 0.839	0.924	-10.1 *
Chlorobenzene	# 1.057	1.125	-6.4 #
Ethylbenzene	* 0.509	0.549	-7.9 *
Styrene	1.098	1.145	-4.3
Xylene (total)	0.601	0.635	-5.7
Toluene-d8	1.246	1.270	-1.9
Bromofluorobenzene	0.742	0.715	3.6
1,2-Dichloroethane-d4	1.759	1.725	1.9

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Instrument ID: V6 Calibration date: 10/06/91 Time: 1030Lab File ID: F2751 Init. Calib. Date(s): 09/22/91 09/22/91Matrix: (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	1.114	10.6
Bromomethane	1.055	1.101	-4.4
Vinyl Chloride	1.258	1.157	8.0
Chloroethane	0.651	0.741	-13.8
Methylene Chloride	1.704	1.727	-1.4
Acetone	0.211	0.192	9.0
Carbon Disulfide	4.156	4.214	-1.4
1,1-Dichloroethene	1.387	1.406	-1.4
1,1-Dichloroethane	3.250	3.291	-1.3
1,2-Dichloroethene (total)	1.727	1.722	0.3
Chloroform	3.857	3.690	4.3
1,2-Dichloroethane	2.171	2.098	3.4
2-Butanone	0.111	0.133	-19.8
1,1,1-Trichloroethane	0.560	0.554	1.1
Carbon Tetrachloride	0.479	0.483	-0.8
Vinyl Acetate	0.538	0.582	-8.2
Bromodichloromethane	0.622	0.618	0.6
1,2-Dichloropropane	0.407	0.395	2.9
cis-1,3-Dichloropropene	0.603	0.606	-0.5
Trichloroethene	0.415	0.406	2.2
Dibromochloromethane	0.501	0.513	-2.4
1,1,2-Trichloroethane	0.316	0.320	-1.3
Benzene	1.001	1.019	-1.8
trans-1,3-Dichloropropene	0.470	0.476	-1.3
2-Chloroethylvinylether	0.190	0.214	-12.6
Bromoform	0.302	0.327	-8.3
4-Methyl-2-Pentanone	0.332	0.367	-10.5
2-Hexanone	0.236	0.249	-5.5
Tetrachloroethene	0.430	0.467	-8.6
1,1,2,2-Tetrachloroethane	0.596	0.667	-11.9
Toluene	0.839	0.868	-3.5
Chlorobenzene	1.057	1.094	-3.5
Ethylbenzene	0.509	0.548	-7.7
Styrene	1.098	1.138	-3.6
Xylene (total)	0.601	0.646	-7.5
Toluene-d8	1.246	1.267	-1.7
Bromofluorobenzene	0.742	0.744	-0.3
1,2-Dichloroethane-d4	1.759	1.757	0.1

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Instrument ID: V6 Calibration date: 10/10/91 Time: 2248  
 Lab File ID: F2884 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	1.296	-4.0 #
Bromomethane	1.055	1.143	-8.3
Vinyl Chloride	* 1.258	1.375	-9.3 *
Chloroethane	0.651	0.735	-12.9
Methylene Chloride	1.704	1.948	-14.3
Acetone	0.211	0.220	-4.3
Carbon Disulfide	4.156	4.298	-3.4
1,1-Dichloroethene	* 1.387	1.571	-13.3 *
1,1-Dichloroethane	# 3.250	3.593	-10.6 #
1,2-Dichloroethene (total)	1.727	1.907	-10.4
Chloroform	* 3.857	4.022	-4.3 *
1,2-Dichloroethane	2.171	2.296	-5.8
2-Butanone	0.111	0.124	-11.7
1,1,1-Trichloroethane	0.560	0.557	0.5
Carbon Tetrachloride	0.479	0.444	7.3
Vinyl Acetate	0.538	0.499	7.2
Bromodichloromethane	0.622	0.562	9.6
1,2-Dichloropropane	* 0.407	0.396	2.7 *
cis-1,3-Dichloropropene	0.603	0.546	9.5
Trichloroethene	0.415	0.423	-1.9
Dibromochloromethane	0.501	0.441	12.0
1,1,2-Trichloroethane	0.316	0.298	5.7
Benzene	1.001	0.987	1.4
trans-1,3-Dichloropropene	0.470	0.425	9.6
2-Chloroethylvinylether	0.190	0.160	15.8
Bromoform	# 0.302	0.253	16.2 #
4-Methyl-2-Pentanone	0.332	0.309	6.9
2-Hexanone	0.236	0.209	11.4
Tetrachloroethene	0.430	0.409	4.9
1,1,2,2-Tetrachloroethane	# 0.596	0.535	10.2 #
Toluene	* 0.839	0.798	4.9 *
Chlorobenzene	# 1.057	0.983	7.0 #
Ethylbenzene	* 0.509	0.502	1.4 *
Styrene	1.098	1.026	6.6
Xylene (total)	0.601	0.573	4.7
=====			
Toluene-d8	1.246	1.222	1.9
Bromofluorobenzene	0.742	0.738	0.5
1,2-Dichloroethane-d4	1.759	1.849	-5.1

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Instrument ID: V1 Calibration date: 10/15/91 Time: 1041Lab File ID: A3513 Init. Calib. Date(s): 08/29/91 08/29/91Matrix: (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	# 0.948	1.324	-39.7 #
Bromomethane	0.850	0.538	36.7
Vinyl Chloride	* 1.185	1.337	-12.8 *
Chloroethane	0.734	0.697	5.0
Methylene Chloride	1.632	1.848	-13.2
Acetone	0.394	0.410	-4.1
Carbon Disulfide	4.412	4.097	7.1
1,1-Dichloroethene	* 1.212	1.076	11.2 *
1,1-Dichloroethane	# 3.039	3.249	-6.9 #
1,2-Dichloroethene (total)	1.548	1.732	-11.9
Chloroform	* 3.639	3.750	-3.0 *
1,2-Dichloroethane	2.533	2.532	0.0
2-Butanone	0.182	0.218	-19.8
1,1,1-Trichloroethane	0.593	0.539	9.1
Carbon Tetrachloride	0.552	0.511	7.4
Vinyl Acetate	0.556	0.640	-15.1
Bromodichloromethane	0.608	0.572	5.9
1,2-Dichloropropane	* 0.417	0.403	3.4 *
cis-1,3-Dichloropropene	0.644	0.611	5.1
Trichloroethene	0.459	0.451	1.7
Dibromochloromethane	0.593	0.568	4.2
1,1,2-Trichloroethane	0.365	0.354	3.0
Benzene	1.104	1.094	0.9
trans-1,3-Dichloropropene	0.583	0.539	7.5
2-Chloroethylvinylether	0.251	0.232	7.6
Bromoform	# 0.502	0.475	5.4 #
4-Methyl-2-Pentanone	0.475	0.426	10.3
2-Hexanone	0.336	0.308	8.3
Tetrachloroethene	0.508	0.514	-1.2
1,1,2,2-Tetrachloroethane	# 0.688	0.677	1.6 #
Toluene	* 0.870	0.830	4.6 *
Chlorobenzene	# 1.154	1.110	3.8 #
Ethylbenzene	* 0.560	0.547	2.3 *
Styrene	1.118	1.093	2.2
Xylene (total)	0.632	0.618	2.2
Toluene-d8	1.290	1.295	-0.4
Bromofluorobenzene	0.596	0.624	-4.7
1,2-Dichloroethane-d4	1.845	1.886	-2.2

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Instrument ID: V2 Calibration date: 10/14/91 Time: 1334Lab File ID: B2979 Init. Calib. Date(s): 10/11/91 10/12/91Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) CAP

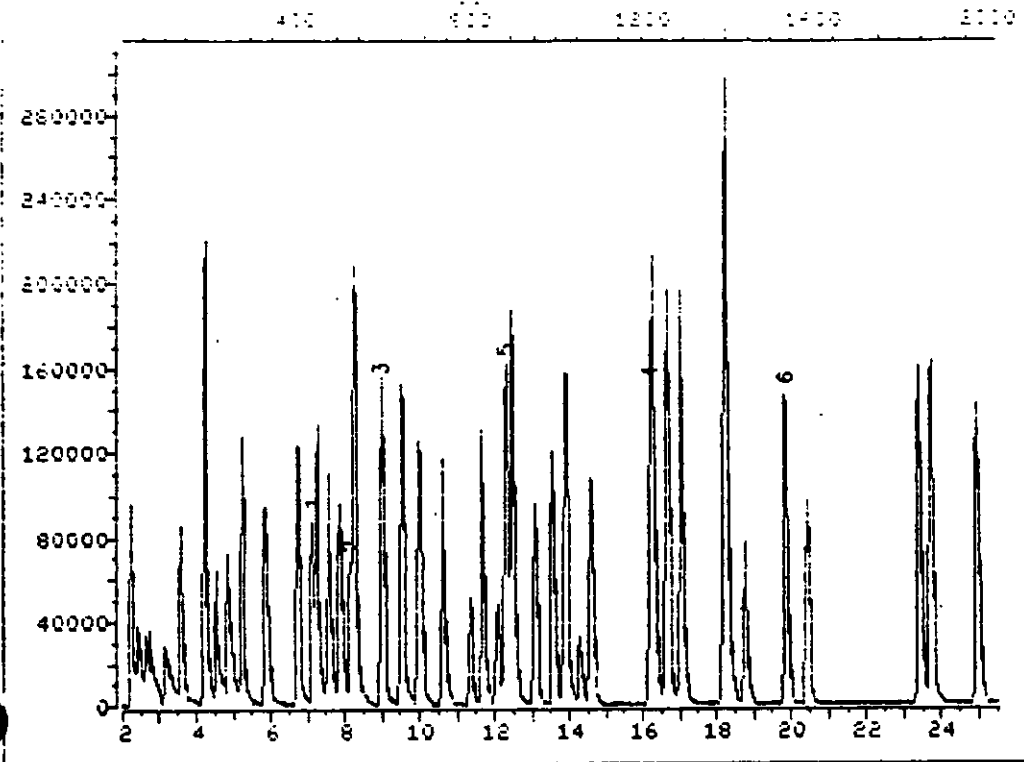
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(\*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	# 0.455	0.340	25.3 #
Bromomethane	0.692	1.012	-46.2
Vinyl Chloride	* 0.847	0.753	11.1 *
Chloroethane	0.531	0.727	-36.9
Methylene Chloride	1.715	2.625	-53.1
Acetone	0.404	0.423	-4.7
Carbon Disulfide	4.332	4.820	-11.3
1,1-Dichloroethene	* 0.935	1.137	-21.6 *
1,1-Dichloroethane	# 3.314	3.677	-11.0 #
1,2-Dichloroethene (total)	1.770	1.967	-11.1
Chloroform	* 3.260	3.524	-8.1 *
1,2-Dichloroethane	2.168	2.295	-5.9
2-Butanone	1.016	1.076	-5.9
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	0.698	0.578	17.2
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	0.439	0.433	1.4
2-Chloroethylvinylether	0.220	0.201	8.6
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



TOTAL ION CHROMATOGRAM

File: F2729 19.10-10000 5000.0 5.14-100.0 500.0 10.0



Data File: >F2729::D6

Quant Output File: ^F2729::D7

Name: USTD 50NG. 5ML.

Instrument ID: U6

Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HSL,A,B + FREONS

Id File: MOBID6::MT

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

Last Calibration: 910814 09:37

Last Qcal Time: 911003 13:19

Operator ID: KERYLYNN

Quant Time : 911005 13:50

Injected at: 911005 13:23

000259

Quant Report

Page 1

Operator ID: KERALIN  
 Output File: F2729:07  
 Data File: F2729:06  
 Name: USTO 50MG FML  
 Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML  
 Quant Re: 7  
 Quant Time: 911005 17:50  
 Injected at: 911005 17:23  
 Dilution Factor: 1.00000  
 Instrument ID: U6

IO File: MOBID6:INT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/NEECO  
 Last Calibration: 910814 09:37  
 Last Qual Time: 911003 17:15

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.13	128.0		82626	50.00	UG/L	76
2)	C010 Chloromethane	2.62	50.0		105730	57.75	UG/L	99
3)	C020 Vinyl Chloride	2.76	62.0		100005	52.67	UG/L	90
4)	C015 Bromomethane	3.14	94.0		89874	48.62	UG/L	88
5)	C025 Chloroethane	3.27	64.0		58602M	49.43	UG/L	99
6)	C045 1,1-Dichloroethene	4.23	96.0		109999	51.53	UG/L	92
7)	C035 Acetone	4.30	43.0		21396	78.66	UG/L	22
8)	C040 Carbon Disulfide	4.52	76.0		323800	52.01	UG/L	100
9)	C030 Methylene Chloride	4.86	84.0		136704	47.45	UG/L	98
11)	C053 Trans-1,2-dichloroethene	5.23	96.0		136036	49.76	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.72	96.0		155784	51.50	UG/L	94
14)	C050 1,1-Dichloroethane	5.84	63.0		261025	51.61	UG/L	100
15)	C060 Chloroform	7.26	83.0		307718	54.14	UG/L	96
16)	C065 1,2-Dichloroethane	8.29	62.0		179563	54.92	UG/L	100
17)	C110 2-Butanone	6.76	72.0		12491	75.18	UG/L	91
18)	CS15 04-1,2-dichloroethane	8.14	65.0		142470	50.97	UG/L	83
19)	*C110 1,4-Difluorobenzene	9.00	114.0		439106	50.00	UG/L	100
20)	C125 Vinyl Acetate	5.91	43.0		271403	67.11	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.59	97.0		251828	54.67	UG/L	97
22)	C120 Carbon Tetrachloride	7.89	117.0		208877	54.60	UG/L	91
23)	C165 Benzene	8.26	78.0		439733	53.85	UG/L	100
24)	C150 Trichloroethene	9.52	130.0		186447	52.36	UG/L	99
25)	C140 1,2-Dichloropropane	10.00	63.0		184360	56.28	UG/L	100
26)	C130 Bromodichloromethane	10.62	83.0		277697	56.42	UG/L	71
27)	C175 2-Chloroethylvinylether	11.35	63.0		88894	60.94	UG/L	94
28)	C143 Cis-1,3-Dichloropropene	11.65	75.0		290990	60.15	UG/L	99
29)	C172 Trans-1,3-dichloropropene	13.07	75.0		201429	53.87	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.53	97.0		151604	60.09	UG/L	73
31)	C155 Dibromochloromethane	14.56	129.0		229031	58.31	UG/L	92
32)	C180 Bromoform	18.75	173.0		136920	58.33	UG/L	94
33)	*C120 05-Chlorobenzene	16.18	117.0		330996	50.00	UG/L	100
34)	CS05 08-Toluene	12.29	98.0		420037	49.54	UG/L	95
35)	C205 4-Methyl-2-pentanone	12.06	43.0		138218	71.35	UG/L	79
36)	C230 Toluene	12.47	92.0		305960	55.17	UG/L	93
37)	C210 2-Hexanone	14.27	43.0		100025	74.29	UG/L	98
38)	C220 Tetrachloroethene	13.87	164.0		158098	55.49	UG/L	86
39)	C235 Chlorobenzene	16.27	112.0		372423	56.33	UG/L	74
40)	C240 Ethylbenzene	16.64	106.0		181878	54.08	UG/L	99
41)	CXXX Xylenes (p)	17.02	106.0		219323	54.43	UG/L	97
42)	CXXX Xylenes (o)	18.21	106.0		215881	54.50	UG/L	93
43)	C245 Styrene	18.25	104.0		379064	55.45	UG/L	100

000260

QUANT REPORT

Page 1

Operator ID: VERLMMH                      Quant Ret: 7                      Quant Time: 911003 13:19  
 Output File: F2729:07                      Injected amt: 911003 13:19  
 Data File: F2729:06                      Dilution Factor: 1.00000  
 Name: USTD 50NG. 5ML                      Instrument ID: 06  
 Misc: U6, CH#01, 5UL 15%S, STD=25UL/100ML HSL,A.B + FREONS

ID File: MOBID6:MT  
 Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCD/ENSECO  
 Last Calibration: 910814 09:37                      Last Cal Time: 911003 13:19

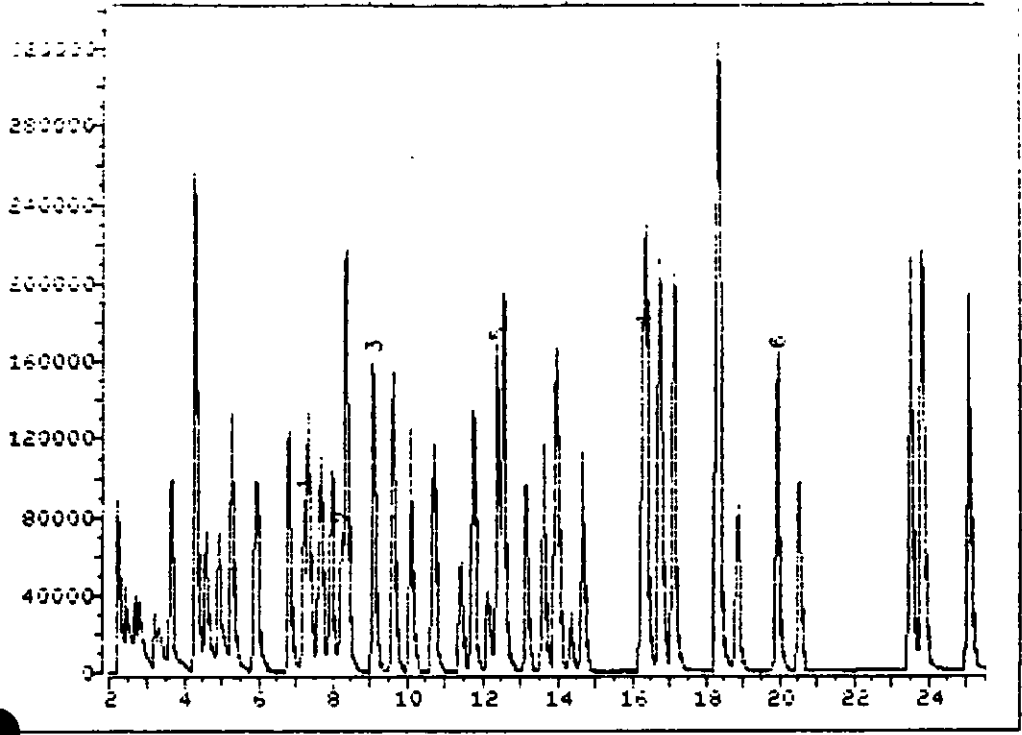
	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	C335 Dichlorobenzene (m)	23.40	146.0	292695	51.74	UG/L	100
47)	C340 Dichlorobenzene (p)	23.72	146.0	267546	52.22	UG/L	100
48)	C350 Dichlorobenzene (o)	24.94	146.0	268856	51.71	UG/L	100
49)	C250 Xylenes (total)	18.21	106.0	210274	53.08	UG/L	84

\* Compound is ISTD

FILE: >F2751::D6

DATE: 911006 10:30

TIME: 10:30



Data File: >F2751::D6                      Quant Output File: ^F2751::D7  
Name: USTD 50NG. 5ML.                      Instrument ID: U6  
Misc: U6, CH#01, 5UL IS/S, STD=25UL/100ML HSL,A,B  
  
Id File: M0BID6::MT  
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCO/ENSECO  
Last Calibration: 910814 09:37              Last Qcal Time: 911005 13:23  
  
Operator ID: KERYLYNN  
Quant Time : 911006 10:57  
Injected at: 911006 10:30

Operator ID: MERYL WYN  
 Output File: F07811:07  
 Data File: F07811:06  
 Name: USTC FONG, RNL  
 Misc: 06, CH#01, SUL 15.5, STD=0.5UL-100ML  
 Plant Ref: 7  
 Plant Name: HSL.P.B  
 Inletted at: 911009 10:07  
 Dilution Factor: 1.0000  
 Instrument ID: 06  
 Last Calibration: 910814 09:37  
 Last Seal Time: 911009 10:07

ID File: MOBID6:INT  
 Title: HSL VOLATILES: 75m x 0.53mm: DBs24 06 EPCC EN8800  
 Last Calibration: 910814 09:37  
 Last Seal Time: 911009 10:07

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.20	128.0		87593	50.00	UG/L	71
2) C010 Chloromethane	2.66	50.0		97614	43.54	UG/L	97
3) C020 Vinyl Chloride	2.80	62.0		101375	47.81	UG/L	92
4) C015 Bromomethane	3.18	94.0		96429	52.25	UG/L	97
5) C025 Chloroethane	3.32	64.0		64923M	52.25	UG/L	98
6) C045 1,1-Dichloroethene	4.29	96.0		123188	52.82	UG/L	89
7) C035 Acetone	4.34	43.0		16836	37.11	UG/L	24
8) C040 Carbon Disulfide	4.58	76.0		369118	53.77	UG/L	100
9) C030 Methylene Chloride	4.90	84.0		151307	52.20	UG/L	97
11) C053 Trans-1,2-dichloroethene	5.29	96.0		150804	52.28	UG/L	98
12) C055 Cis-1,2-dichloroethene	6.80	96.0		167875	50.83	UG/L	90
14) C050 1,1-Dichloroethane	5.88	63.0		288323	52.10	UG/L	100
15) C060 Chloroform	7.34	83.0		323216	49.54	UG/L	97
16) C065 1,2-Dichloroethane	8.37	62.0		183762	48.27	UG/L	100
17) C110 2-Butanone	6.80	72.0		11676	44.09	UG/L	87
18) CS15 D4-1,2-dichloroethane	8.23	65.0		153933	50.96	UG/L	82
19) *C110 1,4-Difluorobenzene	9.08	114.0		477342	50.00	UG/L	100
20) C125 Vinyl Acetate	5.96	43.0		277784	47.08	UG/L	97
21) C115 1,1,1-Trichloroethane	7.65	97.0		264471	48.30	UG/L	96
22) C120 Carbon Tetrachloride	7.96	117.0		230283	50.71	UG/L	99
23) C165 Benzene	8.33	78.0		486009	50.84	UG/L	100
24) C150 Trichloroethene	9.60	130.0		193621	47.76	UG/L	98
25) C140 1,2-Dichloropropane	10.07	63.0		188550	47.04	UG/L	100
26) C130 Bromodichloromethane	10.70	83.0		294764	48.82	UG/L	83
27) C175 2-Chloroethylvinylether	11.42	63.0		102063	52.81	UG/L	95
28) C143 Cis-1,3-Dichloropropene	11.73	75.0		306538	51.36	UG/L	98
29) C172 Trans-1,3-dichloropropene	13.14	75.0		208731	43.85	UG/L	100
30) C160 1,1,2-Trichloroethane	13.61	97.0		152751	46.34	UG/L	76
31) C155 Dibromochloromethane	14.65	129.0		244876	49.18	UG/L	95
32) C180 Bromoform	18.83	173.0		156055	52.42	UG/L	92
33) *C120 D5-Chlorobenzene	16.26	117.0		362068	50.00	UG/L	100
34) CS05 D8-Toluene	12.39	98.0		458791	49.93	UG/L	92
35) C205 4-Methyl-2-pentanone	12.13	43.0		132688	43.88	UG/L	88
36) C230 Toluene	12.53	92.0		314065	46.92	UG/L	97
37) C210 2-Hexanone	14.33	43.0		90248	41.24	UG/L	93
38) C220 Tetrachloroethene	13.94	164.0		168911	48.84	UG/L	89
39) C235 Chlorobenzene	16.34	112.0		395947	48.60	UG/L	71
40) C240 Ethylbenzene	16.72	106.0		198256	49.83	UG/L	95
41) CXXX Xylenes (p)	17.08	106.0		237504	49.50	UG/L	99
42) CXXX Xylenes (o)	18.27	106.0		233773	49.50	UG/L	97
43) C245 Styrene	18.33	104.0		412050	49.69	UG/L	100

*Handwritten:* 52.25 UG/L

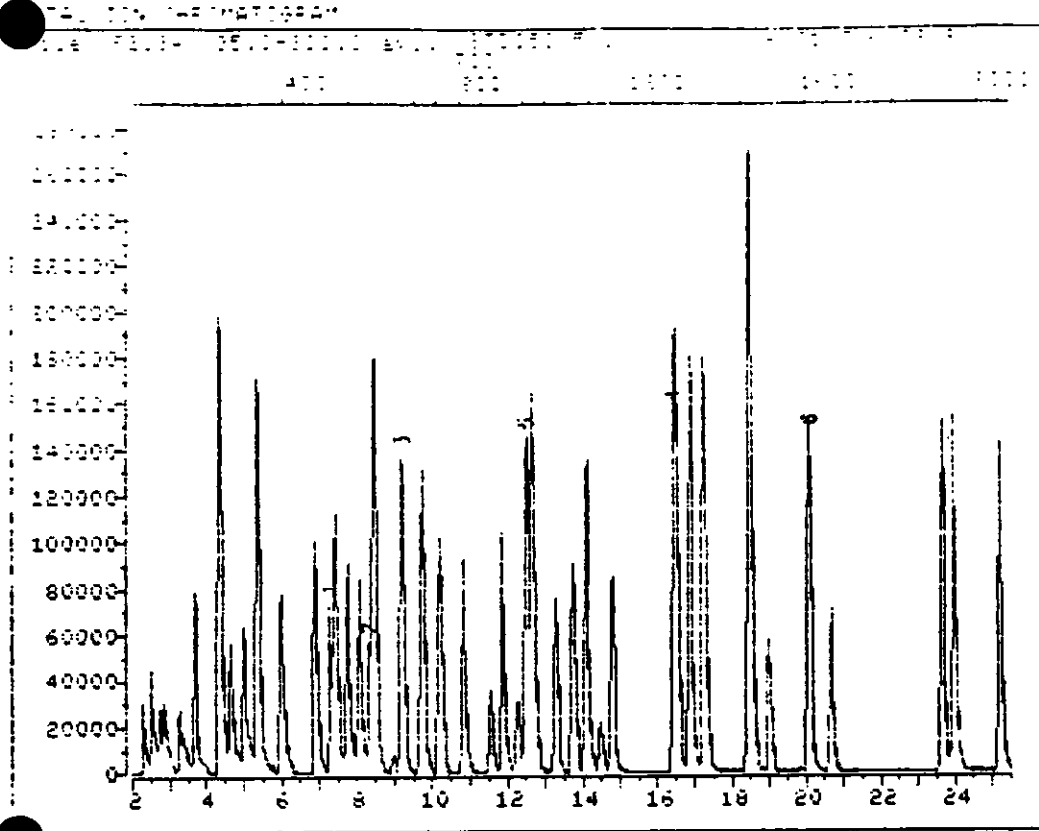
*Handwritten:* 000263

Operator ID: AEP L MW      Client Ref: 7      Client Time: 9/10/98 11:07  
 Method File: \F1\MS11:07      Imported at: 9/10/98 11:07  
 Data File: \F1\MS11:06      Dilution Factor: 1.0000  
 Name: ISTD 5005. PNL      Instrument ID: 06  
 Misc: 06, CH#01, PUL 15'S, STD=20UL/100ML      HSL,H.B

ISD File: MOR10r:007  
 Title: HSL VOLATILES: 75m x .53mm: DB#24 06 EPCO#ENSECO  
 Last Calibration: 9/08/94 09:37      Last Qual Time: 9/10/98 11:07

Compound	R.T.	Q	Ion	Area	Conc	Units	g
46) C335 Dichlorobenzene (m)	23.50	146.0		396296	61.89	UG/L	100
47) C340 Dichlorobenzene (p)	23.80	146.0		361513	61.76	UG/L	100
48) C350 Dichlorobenzene (o)	25.04	146.0		364732	62.01	UG/L	100
49) C250 Xylenes (total)	18.27	106.0		233797	50.82	UG/L	94

\* Compound is ISTD



Data File: >F2884::06  
Name: USTD050 5ML  
Misc: U6 C1 5UL IS/S

Quant Output File: ^F2884::07  
Instrument ID: U6

Id File: MOBID6::MT  
Title: HSL VOLATILES: 75m x .53mm: DB624 U6 ERCC/ENSECO  
Last Calibration: 910814 09:37      Last Qcal Time: 911010 11:03

Operator ID: KERYLYNN  
Quant Time : 911010 23:15  
Injected at: 911010 22:48

Sample Name:   
 Sample ID:   
 File Name:   
 Date:   
 Time:

Method:   
 Instrument:   
 Operator:

File:   
 Title:   
 Last Goal Time:

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	7.29	128.0		67879	50.00	UG/L	67
2)	C010 Chloromethane	2.70	50.0		87980	55.24	UG/L	98
3)	C020 Vinyl Chloride	2.84	62.0		93332	67.12	UG/L	84
4)	C015 Bromomethane	3.22	94.0		77594	70.88	UG/L	93
5)	C025 Chloroethane	3.35	64.0		49917	70.88	UG/L	89
6)	C045 1,1-Dichloroethene	4.33	96.0		106667	63.61	UG/L	95
7)	C035 Acetone	4.40	43.0		14946	53.84	UG/L	29
8)	C040 Carbon Disulfide	4.63	76.0		291841	58.20	UG/L	100
9)	C030 Methylene Chloride	4.98	84.0		132288	56.01	UG/L	92
10)	C053 Trans-1,2-dichloroethene	5.36	96.0		129511	57.53	UG/L	99
12)	C055 Cis-1,2-dichloroethene	6.88	96.0		138570	57.00	UG/L	96
13)	CXXX Methyl tert-butyl ether	5.36	73.0		223056	51.80	UG/L	86
14)	C050 1,1-Dichloroethane	5.97	63.0		243981	55.43	UG/L	100
15)	C060 Chloroform	7.43	83.0		273060	55.78	UG/L	97
16)	C065 1,2-Dichloroethane	8.46	62.0		155885	53.02	UG/L	100
17)	C110 2-Butanone	6.89	72.0		8434	53.96	UG/L	91
18)	C015 D4-1,2-dichloroethane	8.32	65.0		125523	54.44	UG/L	85
19)	*C110 1,4-Difluorobenzene	9.18	114.0		403984	50.00	UG/L	100
20)	C125 Vinyl Acetate	6.03	43.0		201606	40.96	UG/L	98
21)	C115 1,1,1-Trichloroethane	7.76	97.0		225130	50.90	UG/L	89
22)	C120 Carbon Tetrachloride	8.05	117.0		179406	49.48	UG/L	97
23)	C165 Benzene	8.43	78.0		398572	50.95	UG/L	100
24)	C150 Trichloroethene	9.70	130.0		171038	53.85	UG/L	88
25)	C140 1,2-Dichloropropane	10.19	63.0		160017	50.15	UG/L	100
26)	C130 Bromodichloromethane	10.81	83.0		227057	47.39	UG/L	77
27)	C175 2-Chloroethylvinylether	11.53	63.0		64712	45.39	UG/L	99
28)	C143 Cis-1,3-Dichloropropene	11.85	75.0		233726	49.73	UG/L	97
29)	C172 Trans-1,3-dichloropropene	13.27	75.0		157885	42.86	UG/L	100
30)	C160 1,1,2-Trichloroethane	13.72	97.0		120228	47.89	UG/L	76
31)	C155 Dibromochloromethane	14.78	129.0		178323	46.60	UG/L	92
32)	C180 Bromoform	18.99	173.0		102353	46.15	UG/L	98
33)	*C120 D5-Chlorobenzene	16.40	117.0		330421	50.00	UG/L	100
34)	C005 D8-Toluene	12.50	98.0		403422	47.90	UG/L	88
35)	C205 4-Methyl-2-pentanone	12.27	43.0		102103	43.66	UG/L	83
36)	C230 Toluene	12.66	92.0		263494	46.84	UG/L	94
37)	C210 2-Hexanone	14.47	43.0		69124	45.33	UG/L	98
38)	C220 Tetrachloroethene	14.08	164.0		134827	46.38	UG/L	86
39)	C235 Chlorobenzene	16.48	112.0		324313	48.08	UG/L	74
40)	C240 Ethylbenzene	16.86	106.0		165528	48.79	UG/L	97
41)	CXXX Xylenes (p)	17.23	106.0		205953	46.79	UG/L	97
42)	CXXX Xylenes (o)	18.43	106.0		194179	47.14	UG/L	97
43)	C245 Styrene	18.48	104.0		338692	46.52	UG/L	100

*Handwritten:* 7.10.19

000266



Operator: J. J. KEF LAM  
Sample File: 910814.D  
Data File: 910814.D  
Date: 01/10/98  
Time: 06:01:53

Start Time: 06:01:53  
Injection: 1  
Dilution Factor: 1  
Instrument ID: 1

10 File: 910814.D

Title: 4SL MOLTILES: 75m x .53mm: DB624 06 EPCO.ENSECO

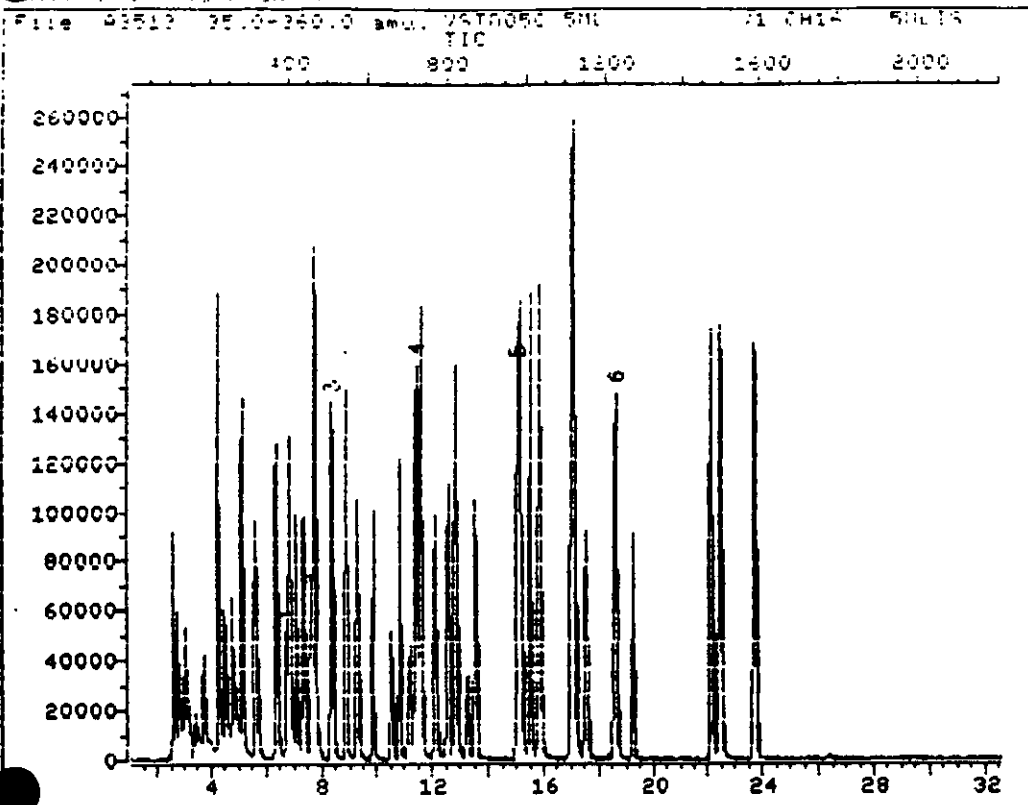
Start Calibration: 910814 09:37

Last Cal Time: 911010 11:04

	Compound	R.T.	Q	10n	Area	Conc	Units	q
45	C510 Bromofluorobenzene	20.08	95.0		243392	50.77	UG/L	56
46	C335 Dichlorobenzene (m)	23.66	146.0		268793	45.23	UG/L	100
47	C340 Dichlorobenzene (p)	23.97	146.0		245101	45.04	UG/L	100
48	C350 Dichlorobenzene (o)	25.21	146.0		259079	46.97	UG/L	100
49	C250 Xylenes (total)	18.43	106.0		189066	46.86	UG/L	93

\* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3513::D1  
Name: USTD050 5ML  
Misc: V1 CH16 5ULIS

Quant Output File: ^A3513::QT

Id File: VOID1::\$\$  
Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO  
Last Calibration: 911009 08:24

Operator ID: ALANA  
Quant Time: 911015 11:15  
Injected at: 911015 10:41

000268

DATA FILE

Operator: JH: RLH:RH  
 Output File: 745513::QT  
 Data File: 745513::DI  
 Name: UST005U 5ML  
 Misc: V1 CH16 5UL15

Quant Name: Quant Time: 911015 11:15  
 Injected at: 911015 10:41  
 Dilution Factor: 1.000000

ID File: UOAU01:\$\$  
 Title: HSL VGLAFILES:105mmx.53mm:DB624:V1:ERLU/ENSELU  
 Last Calibration: 911009 08:24

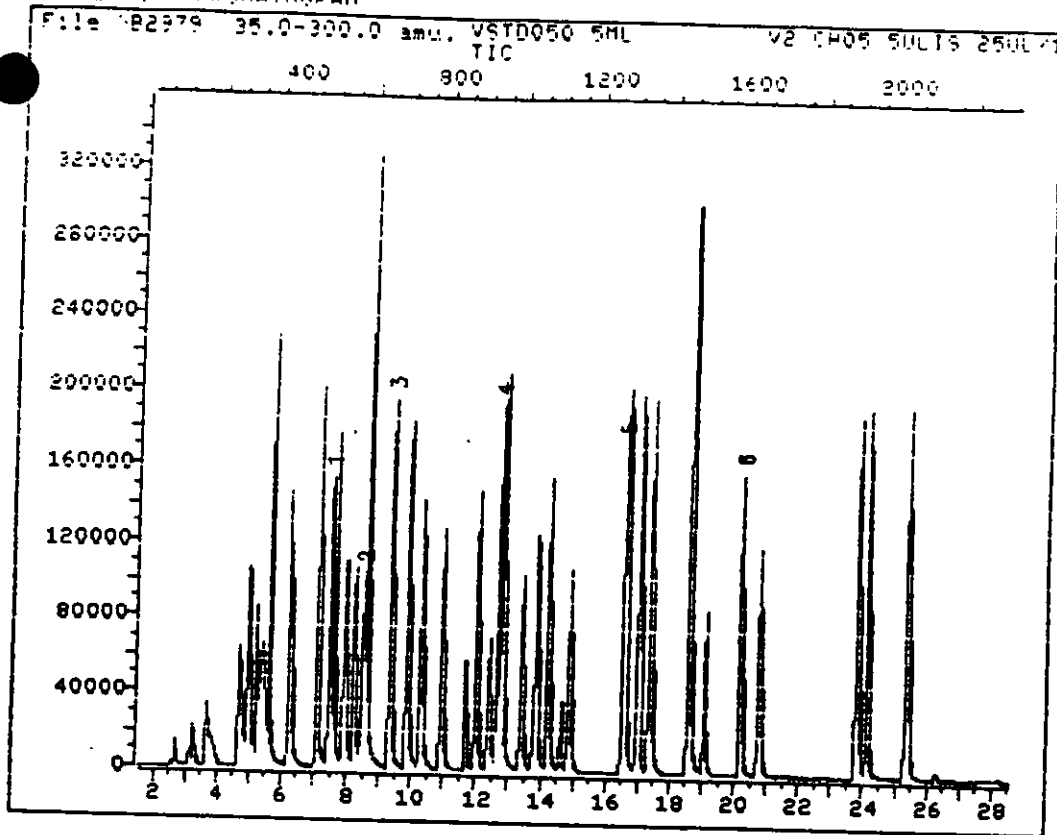
	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101	Bromochloromethane	6.71	128.0	63438	50.00	UG/L	39
2)	C010	Chloromethane	2.96	50.0	83966	76.49	UG/L	97
3)	C020	Vinyl Chloride	3.06	62.0	84787	56.74	UG/L	85
4)	C015	Bromomethane	3.38	94.0	34132M	26.35	UG/L	91
5)	C025	Chloroethane	3.48	64.0	44175M	42.29	UG/L	97
6)	C045	1,1-Dichloroethene	4.25	96.0	68210	45.43	UG/L	88
7)	C035	Acetone	4.33	43.0	25982	53.96	UG/L	100
8)	C040	Carbon Disulfide	4.49	76.0	259765	46.97	UG/L	100
9)	C030	Methylene Chloride	4.76	84.0	117187	53.02	UG/L	77
10)	C053	Trans-1,2-Dichloroethene	5.08	96.0	109784	49.86	UG/L	99
11)	C055	cis-1,2-Dichloroethene	6.36	96.0	129013	54.24	UG/L	88
12)	C050	1,1-Dichloroethane	5.59	63.0	205994	52.45	UG/L	87
13)	C060	Chloroform	6.82	83.0	237768	51.61	UG/L	94
14)	C065	1,2-Dichloroethane	7.72	62.0	160542	49.03	UG/L	100
15)	C110	2-Butanone	6.39	72.0	13794	57.38	UG/L	86
16)	CS15	D4-1,2-Dichloroethane	7.61	65.0	119581	48.74	UG/L	88
17)	*C110	1,4-Difluorobenzene	8.35	114.0	339941	50.00	UG/L	100
18)	C125	Vinyl Acetate	5.65	43.0	217529	164.12	UG/L	98
19)	C115	1,1,1-Trichloroethane	7.09	97.0	183145	44.40	UG/L	92
20)	C120	Carbon Tetrachloride	7.36	117.0	173698	42.83	UG/L	95
21)	C165	Benzene	7.69	78.0	371878	47.94	UG/L	100
22)	C150	Trichloroethene	8.82	130.0	153485	46.40	UG/L	85
23)	C140	1,2-Dichloropropane	9.25	63.0	137107	48.13	UG/L	100
24)	C130	Bromodichloromethane	9.81	83.0	194599	47.41	UG/L	80
25)	C175	2-Chloroethylvinylether	10.48	63.0	79023	50.13	UG/L	96
26)	C143	Cis-1,3-Dichloropropen	10.78	75.0	220218	50.68	UG/L	96
27)	C172	Trans-1,3-Dichloropropen	12.08	75.0	168657	43.58	UG/L	100
28)	C160	1,1,2-Trichloroethane	12.53	97.0	120295	48.40	UG/L	70
29)	C155	Dibromochloromethane	13.48	129.0	193046	47.69	UG/L	93
30)	C180	Bromoform	17.53	173.0	161410	46.28	UG/L	99
31)	*C120	D5-Chlorobenzene	15.03	117.0	284949	50.00	UG/L	100
32)	CS05	D8-Toluene	11.37	98.0	368979	49.38	UG/L	86
33)	C205	4-Methyl-2-Pentanone	11.15	43.0	121447	45.89	UG/L	84
34)	C230	Toluene	11.51	92.0	236592	45.43	UG/L	99
35)	C210	2-Hexanone	13.23	43.0	87864	47.84	UG/L	98
36)	C220	Tetrachloroethene	12.83	164.0	146371	44.84	UG/L	90
37)	C235	Chlorobenzene	15.11	112.0	316254	45.58	UG/L	69
38)	C240	Ethylbenzene	15.47	106.0	155814	44.91	UG/L	99
39)	CXXX	Xylene ( p )	15.84	106.0	187822	46.71	UG/L	99
40)	CXXX	Xylene ( o )	16.97	106.0	177545	45.85	UG/L	99
41)	C245	Styrene	17.05	104.0	311457	47.12	UG/L	99
42)	C225	1,1,2,2-Tetrachloroethan	19.20	83.0	192884	50.13	UG/L	94
43)	CS10	Bromofluorobenzene (BRF)	18.59	95.0	177754	51.19	UG/L	92

000269

	Compound	Retention Time	Area	Conc	Units	
44	C335 Dichlorobenzene ( m )	22.12 146.0	265932	47.27	UG/L	100
45	C340 Dichlorobenzene ( p )	22.43 146.0	287936	50.22	UG/L	100
46	C350 Dichlorobenzene ( o )	23.65 146.0	279502	48.83	UG/L	100
47	C250 Xylene (Total)	16.97 106.0	176043	45.46	UG/L	92

\* Compound is ISID

TOTAL ION CHROMATOGRAM



Data File: >B2979::D6

Quant Output File: ^B2979::QT

Name: USTD050 5ML

Misc: V2 CH05 5ULIS 25UL/100ML A+B+HSL

Id File: VDAID2::\$\$

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

000271

QUANT REPORT

Operator ID: NORA  
 Output File: B2979::QT  
 Data File: B2979::D6  
 Name: US10050 5ML  
 Misc: V2 CH05 5ULIS 25UL/100ML A+B+HSL

Quant Rev: 6      Quant Time: 911014 14:55  
 Injected at: 911014 13:54  
 Dilution Factor: 1.00000

ID File: VOAID2::\$\$  
 Title: HSL VOLATILES:105mmx.53mm:DB624:V2:ERCO/ENSECO  
 Last Calibration: 911012 13:56

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101	7.47	128.0		100554	50.00	UG/L	80
2)	C010	3.10	50.0		34365	59.11	UG/L	99
3)	C020	3.24	62.0		76036	51.87	UG/L	87
4)	C015	3.65	94.0		102259	60.51	UG/L	93
5)	C025	3.84	64.0		73394	55.06	UG/L	93
6)	C045	4.71	96.0		114792M	60.23	UG/L	97
7)	C035	4.69	43.0		42677	67.51	UG/L	100
8)	C040	4.95	76.0		486804	77.92	UG/L	100
9)	C030	5.23	84.0		265165M	77.90	UG/L	89
10)	C053	5.60	96.0		198693	48.94	UG/L	97
11)	C055	7.09	96.0		201534	46.24	UG/L	96
12)	C050	6.20	63.0		371383	49.08	UG/L	86
13)	C060	7.61	83.0		355906	48.62	UG/L	94
14)	C065	8.62	62.0		231752	50.38	UG/L	100
15)	C110	7.12	43.0		108724	52.12	UG/L	96
16)	CS15	8.48	65.0		166194	54.19	UG/L	85
17)	*C110	9.35	114.0		448145	50.00	UG/L	100
18)	C125	6.29	43.0		415491	47.96	UG/L	96
19)	C115	7.94	97.0		214651	50.36	UG/L	93
20)	C120	8.23	117.0		204201	50.26	UG/L	99
21)	C165	8.60	78.0		559043	46.18	UG/L	100
22)	C150	9.87	130.0		184139	45.20	UG/L	98
23)	C140	10.32	63.0		187301	45.71	UG/L	100
24)	C130	10.94	83.0		255107	47.98	UG/L	80
25)	C175	11.67	63.0		90114	50.76	UG/L	96
26)	C143	11.99	75.0		274429	48.95	UG/L	95
27)	C172	13.38	75.0		178445	44.40	UG/L	100
28)	C160	13.84	97.0		132574	47.61	UG/L	71
29)	C155	14.87	129.0		189282	49.32	UG/L	98
30)	C180	19.07	173.0		135195	50.88	UG/L	97
31)	*C120	16.51	117.0		321576	50.00	UG/L	100
32)	CS05	12.63	98.0		429007	49.46	UG/L	93
33)	C205	12.40	43.0		183383	50.75	UG/L	85
34)	C230	12.80	92.0		279061	45.26	UG/L	97
35)	C210	14.60	43.0		100429	56.28	UG/L	99
36)	C220	14.21	164.0		131923	46.57	UG/L	89
37)	C235	16.59	112.0		328361	46.03	UG/L	74
38)	C240	17.00	106.0		153031	46.44	UG/L	96
39)	CXXX	17.37	106.0		191688	47.55	UG/L	98
40)	CXXX	18.55	106.0		200489	45.11	UG/L	93
41)	C245	18.61	104.0		317627	45.91	UG/L	100
42)	C225	20.79	83.0		258865	45.04	UG/L	93
43)	CS10	20.19	95.0		196538	48.12	UG/L	96

000272

	Compound	R.T.	Q ion	Area	Conc	Units	g
44)	C336 Dichlorobenzene ( m )	23.81	146.0	295269	46.41	UG/L	100
45)	C340 Dichlorobenzene ( p )	24.12	146.0	301527	46.48	UG/L	100
46)	C350 Dichlorobenzene ( o )	25.36	146.0	315621	46.72	UG/L	100
47)	C250 Xylene (Total)	18.55	106.0	199653	45.58	UG/L	48

\* Compound is ISTD

8A  
VOLATILE INTERNAL STANDARD AREA SUMMARY

Job Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): A3513 Date Analyzed: 10/15/91  
 Instrument ID: V1 Time Analyzed: 1041  
 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	63400	6.71	340000	8.35	285000	15.03
UPPER LIMIT	126800		680000		570000	
LOWER LIMIT	31700		170000		142500	
EPA SAMPLE NO.						
01 SB-B-11-2DL	70000	6.70	356000	8.33	294000	14.97
02 VBLK02	67100	6.60	359000	8.25	312000	14.95

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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): B2979 Date Analyzed: 10/14/91  
 Instrument ID: V2 Time Analyzed: 1334  
 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	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-11-2	177000	7.47	732000	9.38	542000	16.58
02 VBLK05	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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): F2751 Date Analyzed: 10/06/91  
 Instrument ID: V6 Time Analyzed: 1030  
 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	87600	7.20	477000	9.08	362000	16.26
UPPER LIMIT	175200		954000		724000	
LOWER LIMIT	43800		238500		181000	
EPA SAMPLE NO.						
01 PC-1	93400	7.20	500000	9.10	380000	7.20
02 VBLK01	95500	7.20	486000	9.08	382000	16.27

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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): F2729 Date Analyzed: 10/05/91  
 Instrument ID: V6 Time Analyzed: 1323  
 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	82600	7.13	439000	9.00	331000	16.18
UPPER LIMIT	165200		878000		662000	
LOWER LIMIT	41300		219500		165500	
EPA SAMPLE NO.						
01 10-3-QA1	94500	7.14	517000	9.01	401000	16.18
02 VBLK06	75700	7.17	420000	9.03	331000	16.20

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.: 10126 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-09-4	79900	7.40	384000	9.31	287000	16.57
02 SB-B-16-3	84100	7.41	400000	9.31	317000	16.54
03 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

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): F2884 Date Analyzed: 10/10/91  
 Instrument ID: V6 Time Analyzed: 2248  
 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	67900	7.29	404000	9.18	330000	16.40
UPPER LIMIT	135800		808000		660000	
LOWER LIMIT	33950		202000		165000	
EPA SAMPLE NO.						
01 SB-B-14-3	85200	7.33	472000	9.23	368000	16.43
02 SB-C-18-2	81700	7.22	442000	9.09	348000	16.29
03 VBLK04	61100	7.21	377000	9.09	319000	16.29

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene

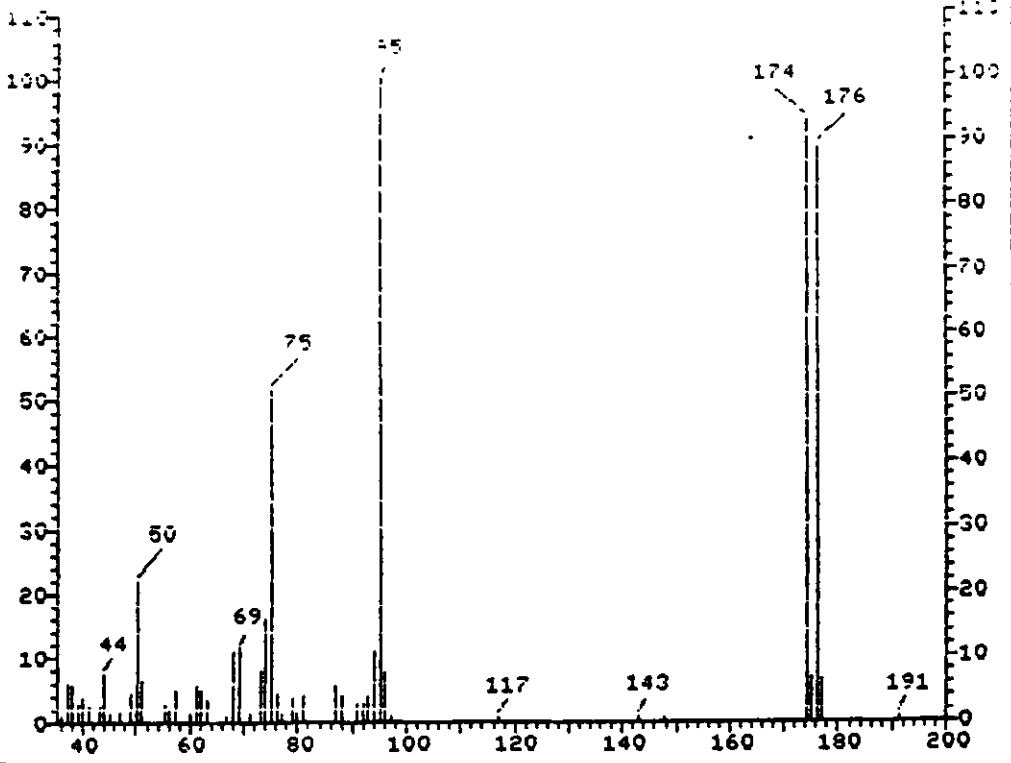
UPPER LIMIT = + 100%  
 of internal standard area.  
 LOWER LIMIT = - 50%  
 of internal standard area.

# Column used to flag internal standard area values with an asterisk

A2830  
100

BFB DIR INJ 50NG V1  
NRM

Scan 48  
3.15 min.



TUNING

MS data file header from : >A2830

Sample: BFB DIR INJ 50NG Operator: MANAGER MS 8/29/91 10:10  
isc : U1  
ys. #: 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

000280

ANSECO-ERL 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	22.13	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	7.36	Ok

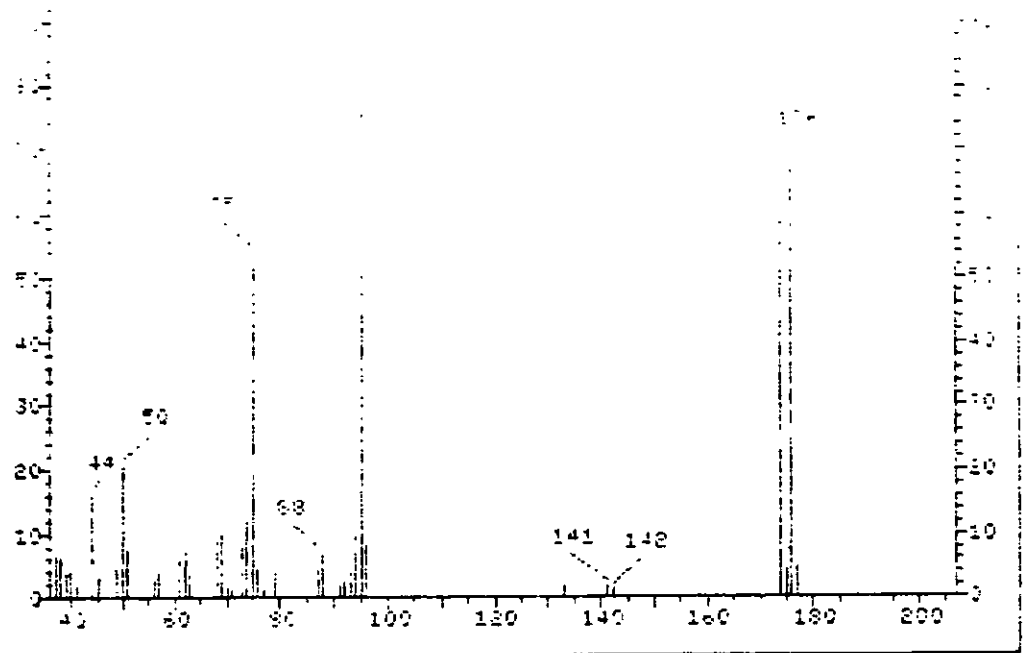
Injection Date: 08/29/91  
 Injection Time: 10:10  
 Data File: >A2830  
 Scan: 48  
 Name: BFB DIR INJ 50NG  
 Misc: U1

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
49.05	4.420								

TCA v0A  
cid S100



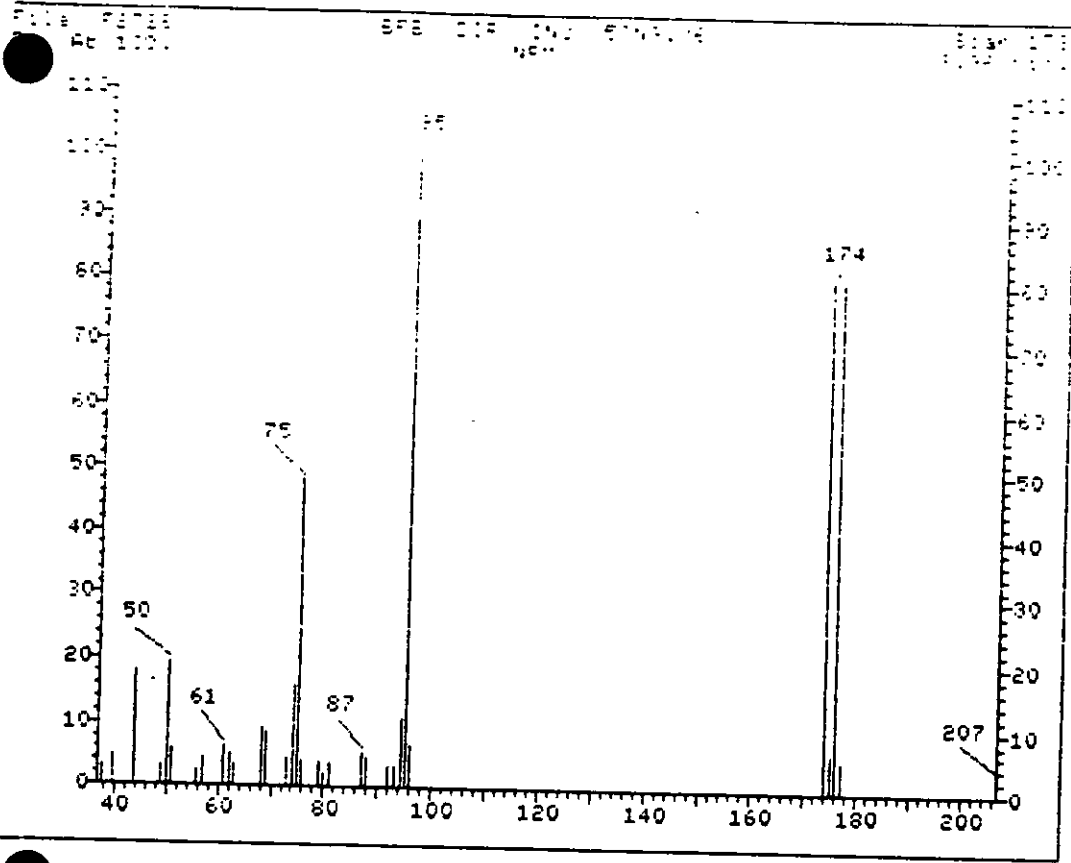
MS data file header from : >F2555::D4

Sample: BFB DIR INC 50NS . Operator: KERYLYNN SUPER GRP. 4/23/91 9:15  
isc : 0  
vs. #: 2 MS model: 70 SW/HW rev.: LF ALS #: 0 Equip ID: 0  
Method file: BFB6 Tuning file: MT740e 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







1S data file header from : >F2728::D6

Sample: BFB DIR INJ 50NG. Operator: LIZ SUPER GRP. 10/05/91 12:46  
 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

ENSETO-9911 11/19/91

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
90	15-40% of mass 95	19.39	19.39	OK
95	30-60% of mass 95	48.33	48.33	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	6.82	6.82	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	80.47	80.47	OK
175	5-9% of mass 174	6.14	7.63	OK
176	95-101% of mass 174	80.12	99.57	OK
177	5-9% of mass 176	5.00	6.24	OK

Injection Date: 10/05/91  
 Injection Time: 12:46  
 Data File: >F2728  
 Scan: 173  
 Name: BFB DIR INJ 50NG.  
 Misc: U6

>F2728 BFB DIR INJ 50NG.U6  
 173 NRM

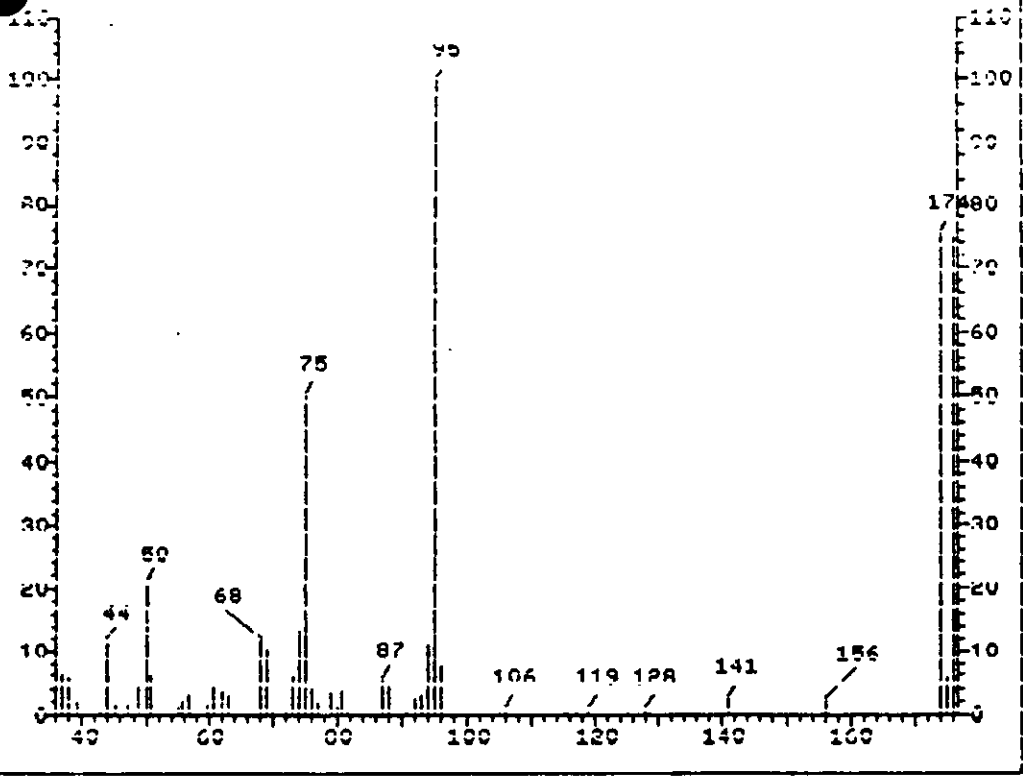
File: >F2728 Scan #: 173 Retn. time: 3.96

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	5.560	55.95	2.460	72.95	4.611	86.95	5.560	95.95	6.819
37.95	3.158	57.05	4.320	74.05	15.866	87.95	4.785	173.95	80.473
39.85	4.959	60.95	6.490	75.05	48.334	91.95	3.623	174.95	6.141
43.95	18.074	62.05	5.056	75.95	4.281	92.95	3.603	175.95	80.124
49.05	3.100	62.95	3.468	78.85	3.991	94.05	11.042	176.95	4.998
50.05	19.392	68.05	9.299	79.95	1.976	95.05	100.000	206.90	3.351
50.95	5.812	68.95	8.853	80.95	3.758				

File: F2150  
Sp: 100.

BFB DIR INJ SUNG.YE  
NRM

Scan 179  
4.02 min.



MS data file header from : >F2/5U::U6

Sample: BFB DIR INJ SUNG. Operator: KERYLYNN SUPER GRP. 10/06/91 10:05  
Misc : U6

Sys. #: 2 MS model: 7U SW/HW rev.: LF ALS #: U Equip ID: U6  
Method file: BFB6 Tuning file: M1/4U6 No. of extra records: 2  
Source temp.: N/A Analyzer temp.: N/A Transfer line temp.: U

Chromatographic temperatures :	15U.	15U.	U.	U.	U.
Chromatographic times, min. :	1.0	6.0	U.U	U.U	U.U
Chromatographic rate, deg/min:	1.0	U.U	U.U	U.U	U.U

ENSELCO-EMUL LABORATORY  
 GC/MS PERFORMANCE STANDARD  
 Bromofluorobenzene (BFB)

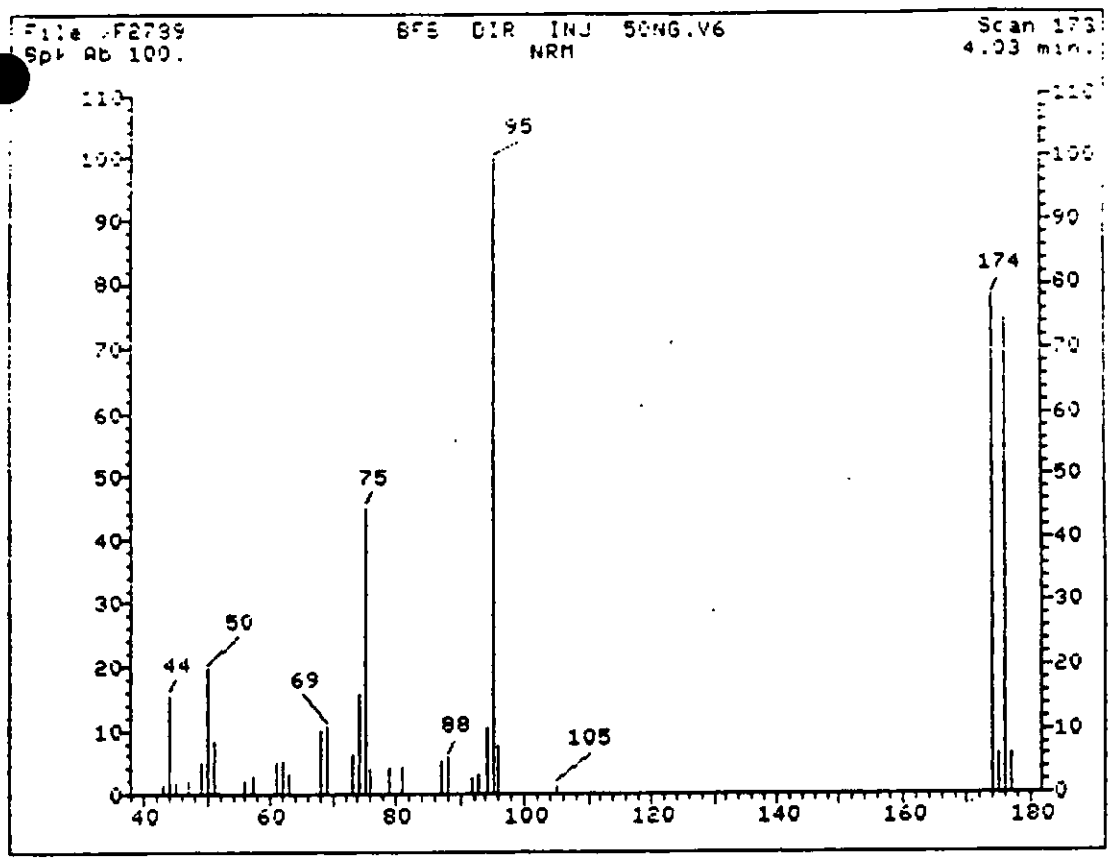
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 55	20.40	20.40	OK
55	30-60% of mass 55	50.01	50.01	OK
55	Base peak, 100% relative abundance	100.00	100.00	OK
56	5-9% of mass 55	7.52	7.52	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 55	75.39	75.39	OK
175	5-9% of mass 174	5.48	7.27	OK
176	95-101% of mass 174	74.70	99.08	OK
177	5-9% of mass 176	4.94	6.62	OK

Injection Date: 10/06/91  
 Injection time: 10:05  
 Data File: >F2750  
 Scan: 178  
 Name: BFB DIR INJ 5UNG.  
 Misc: 06

>F2750 BFB DIR INJ 5UNG.06  
 178 NRM

File: >F2750 Scan #: 178 Retn. time: 4.02

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	1.275	55.05	1.130	71.95	.682	86.95	5.004	115.15	.558
36.95	6.231	55.95	1.985	73.05	5.680	87.95	4.784	116.95	.558
37.95	5.542	56.95	3.274	74.05	15.331	90.85	.620	118.95	.620
39.05	2.213	59.95	1.385	75.05	50.014	91.95	2.585	127.95	.682
42.95	.841	60.95	4.680	75.95	4.294	92.95	3.136	140.95	2.337
43.95	11.339	62.05	3.825	77.05	1.744	94.05	11.008	176.15	1.999
45.05	1.454	62.95	3.226	78.95	3.626	95.05	100.000	173.95	75.393
47.05	1.558	67.95	11.435	79.95	1.027	96.05	7.520	174.95	5.480
48.95	4.329	68.95	10.153	80.85	3.956	105.05	.558	175.95	74.697
50.05	20.346	70.05	.813	81.85	.620	105.95	.689	176.85	4.942
51.95	6.155								



TUNOCA  
old SOW

MS data file header from : >F2789::D6

Sample: BFB DIR INJ 50NG. Operator: LIZ SUPER GRP. 10/08/91 7:34  
 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	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

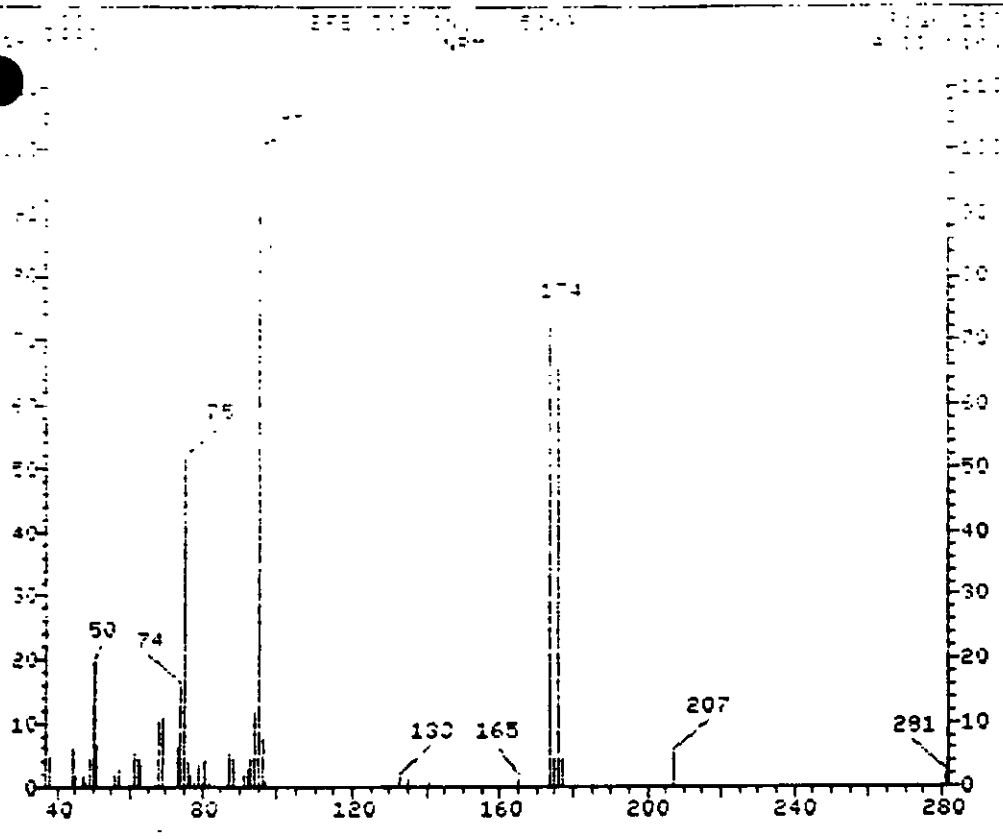
Injection Date: 10/08/91  
 Injection Time: 07:34  
 Data File: >F2789  
 Scan: 173  
 Name: BFB DIR INJ 50NG.  
 Misc: U6

>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	1.139
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		

000289



1S data file header from : >F2882::D6

Sample: BFB DIR INJ 50NG Operator: KERYLYNN SUPER GRP. 10/10/91 21:54

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

000290



5000  
 5000

5000

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
90	15-20% of mass 95	19.58	19.58	OK
98	30-60% of mass 95	51.37	51.37	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.64	7.64	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	72.67	72.67	OK
175	5-9% of mass 174	4.40	6.06	OK
176	95-101% of mass 174	69.76	95.99	OK
177	5-9% of mass 176	4.99	7.15	OK

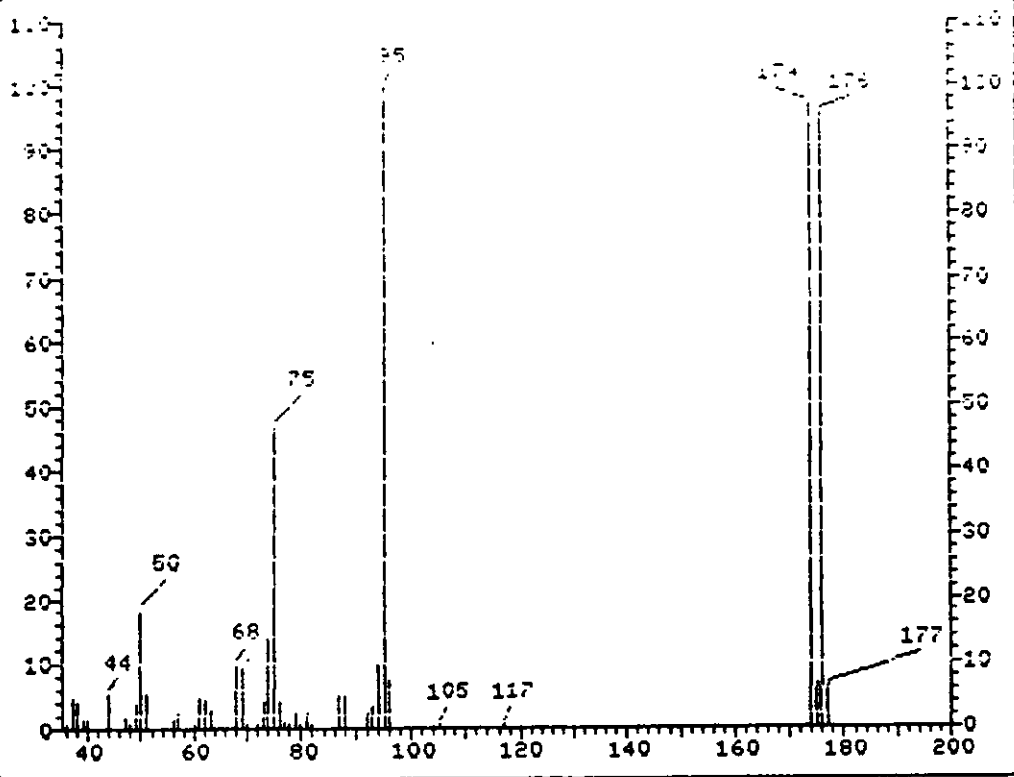
Injection Date: 10/10/91  
 Injection Time: 21:54  
 Data File: >F2882  
 Scan: 180  
 Name: BFB DIR INJ 50NG  
 Misc: U6

>F2882 BFB DIR INJ 50NG U6  
 180 NRM

File: >F2882 Scan #: 180 Retn. time: 4.11

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	6.794	57.05	2.818	75.05	51.366	90.95	2.070	140.85	.740
38.05	4.873	59.95	1.094	76.05	3.637	92.05	2.787	165.05	1.236
44.05	6.006	61.05	5.290	76.95	1.630	93.05	4.519	173.95	72.668
44.95	1.685	62.05	4.582	77.95	.771	93.95	11.470	175.05	4.401
46.95	1.818	63.05	3.322	78.85	3.629	95.05	100.000	175.95	69.755
47.85	.708	67.05	.504	79.95	.803	96.05	7.644	177.05	4.991
49.05	4.755	67.95	10.352	80.95	4.204	96.95	.646	207.00	5.046
50.05	19.578	69.05	10.761	81.85	.921	132.95	1.401	281.10	1.968
50.95	6.534	73.05	6.211	86.95	5.259	134.95	1.071	281.90	.401
56.05	2.078	74.05	15.540	87.95	4.645				

000291



MS data file header from : >82949

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: MT74U2 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

ENSECO-ERCO Laboratory

GC/MS PERFORMANCE STANDARDS

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
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

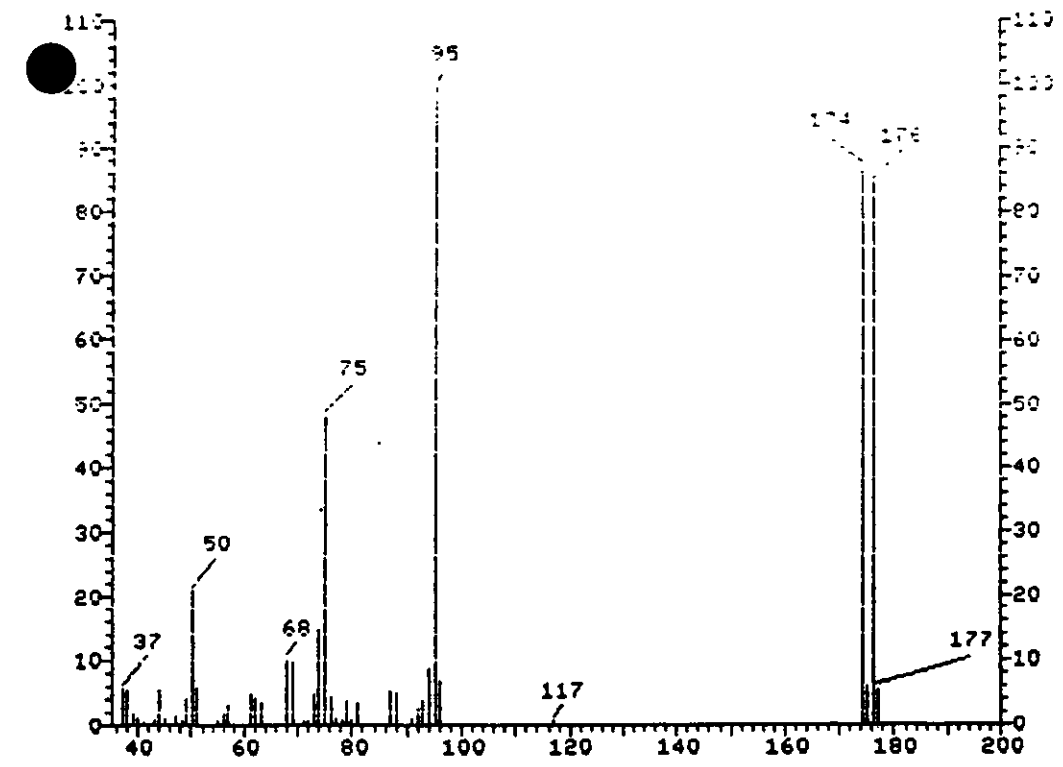
Misc: U2

>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						

000293



tunVOA

MS data file header from : >A3512

Sample: BFB DIR INJ 50NG Operator: ALANA MS 10/15/91 10:06

Misc : V1

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 :	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 STANDARDS

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	20.76	20.76	Ok
75	30-60% of mass 95	48.11	48.11	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.85	6.85	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	87.09	87.09	Ok
175	5-9% of mass 174	5.99	6.88	Ok
176	95-101% of mass 174	84.62	97.17	Ok
177	5-9% of mass 176	5.45	6.44	Ok

Injection Date: 10/15/91  
 Injection Time: 10:06  
 Data File: >A3512  
 Scan: 60  
 Name: BFB DIR INJ 50NG  
 Misc: U1

>A3512      BFB DIR INJ 50NG      U1  
 60      NRM

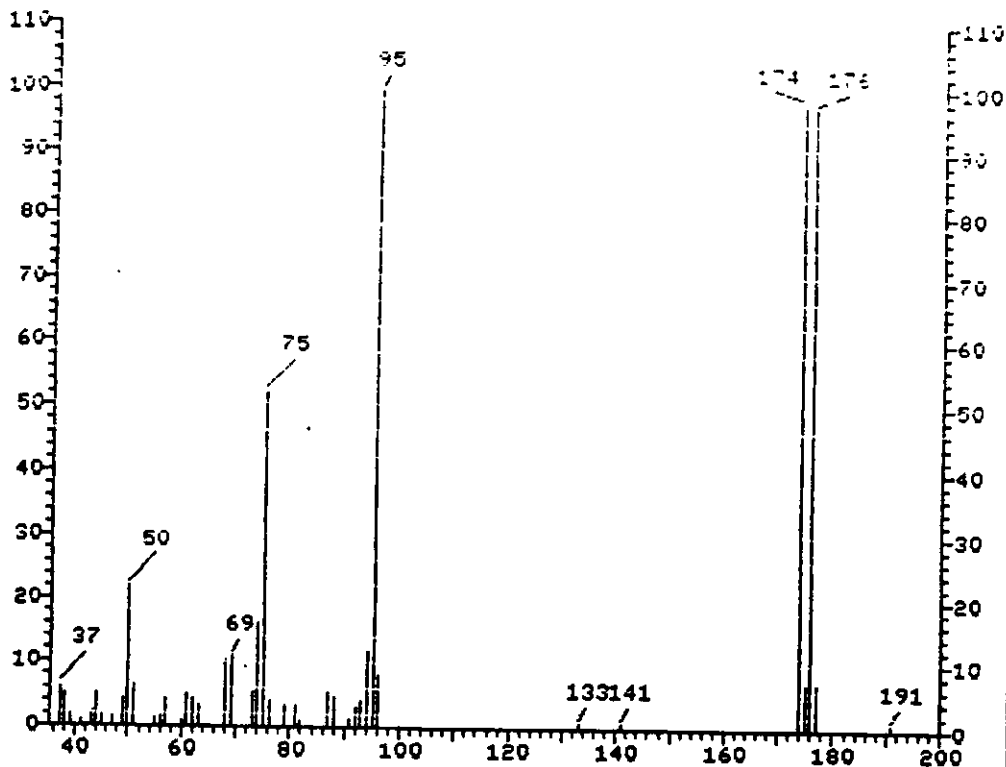
File: >A3512    Scan #:      60    Retn. time:    3.50

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	5.661	48.05	.741	63.15	3.232	77.10	.938	93.05	3.692
38.10	5.304	49.05	3.974	68.10	10.260	78.20	.616	94.15	8.795
39.05	1.813	50.05	20.761	69.10	9.965	79.00	3.688	95.15	100.000
40.05	1.098	51.05	5.608	71.10	.705	80.00	.822	96.15	6.849
41.05	.509	55.05	.607	72.00	.768	81.00	3.340	117.00	.545
43.05	.580	56.05	1.839	73.10	4.759	87.10	5.411	174.10	87.088
44.05	5.465	57.05	2.965	74.10	14.716	88.10	5.099	175.10	5.992
44.95	1.063	61.15	4.759	75.10	48.111	91.05	.955	176.10	84.624
47.05	1.357	62.15	4.054	76.10	4.518	92.15	2.465	177.00	5.447

File >B2977  
Bpk Ab 100

BF DIR INJ 50NG V2  
NRH

Scan 65  
3.35 min.



MS data file header from : >B2977

Sample: BF DIR INJ 50NG Operator: NORA MS 10/14/91 12:08  
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

000296

ENSECO-EPLU 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								

000297

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2752

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91

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

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

CAS NO.	COMPOUND	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	5	U
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	4	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

Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: BLANK01  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2752  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/06/91  
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

NC

R-100691-V6A

6247

7F2752

2-Best

4-the H-2-p...

Prepared by: JZ  
Reviewed by: TS

Date: 10/6/91  
Date: 10/17/91

Data File: F1780  
Page: 1

Erseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: WELK 01 SML  
Misc : U6, CH#16, SUL IS S  
Injected : 10/06/91 11:18  
Analyst: KERYLYNN  
ID File: MOBID6  
Quant list threshold: 1.00

Units: UG/L  
Run Factor: 1.000  
Surrogate val: .005

no water added

Surrogate Spike Recoveries

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 04-1,2-dichloroethane	.2500	.2206	88.2 ✓	76 114
CS05 08-Toluene	.2500	.2533	101	88 110
CS10 Bromofluorobenzene	.2500	.2406	96.2	86 115

Target Compounds: MOBID6

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
	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
417	4.352	(4.4) J	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

000300

Scan #	Concentration Quant. List UG/L	Sample UG/L	Compound
878	2.953	<i>3.0</i>	C155 Dibromochloromethane
			C180 Bromoform
			C205 4-Methyl-2-pentanone
			C230 Toluene
			C210 2-Hexanone
			C220 Tetrachloroethene
			C235 Chlorobenzene
			C240 Ethylbenzene
			CXXX Xylenes (p)
			CXXX Xylenes (o)
			C245 Styrene
			C225 1,1,2,2-Tetrachloroethane
			C335 Dichlorobenzene (m)
			C340 Dichlorobenzene (p)
			C350 Dichlorobenzene (o)
			C250 Xylenes (total)

Diagnostic Check Report

Data File: F27F21.D6      Injected at: 11:19 10 05 91  
 Lab:      : 11:19 10 05 91  
 ID File : MOBIDat:11T      Calibrated : 09:37 08 14 91

Compound	- P.T. Info -				Area	PF	Conc.
	Pred	Found	Dif	Ion			
1) *C101 Bromochloromethane	7.20	7.20	.00	128.0	95509	1.0000	50.00
2) C010 Chloromethane	2.66	0.00	--	50.0	0	1.1124	0.00
3) C020 Vinyl Chloride	2.80	0.00	--	62.0	0	1.1573	0.00
4) C015 Bromomethane	3.19	0.00	--	94.0	0	1.1009	0.00
5) C025 Chloroethane	3.32	0.00	--	64.0	0	.7412	0.00
6) C045 1,1-Dichloroethene	4.29	0.00	--	96.0	0	1.4064	0.00
7) C035 Acetone	4.35	0.00	--	43.0	0	.1922	0.00
8) C040 Carbon Disulfide	4.58	0.00	--	76.0	0	4.2140	0.00
9) C030 Methylene Chloride	4.91	4.91	.00	84.0	2490	1.7274	.75
10) CXXX Tert-butyl alcohol	5.07	0.00	--	59.0	0	.0770	0.00
11) C053 Trans-1,2-dichloroet	5.29	0.00	--	96.0	0	1.7216	0.00
12) C055 Cis-1,2-dichloroethe	6.80	0.00	--	96.0	0	1.9165	0.00
13) CXXX Methyl tert-butyl et	5.29	0.00	--	73.0	0	2.9749	0.00
14) C050 1,1-Dichloroethane	5.88	0.00	--	63.0	0	3.2916	0.00
15) C060 Chloroform	7.34	0.00	--	83.0	0	3.6900	0.00
16) C065 1,2-Dichloroethane	8.37	0.00	--	62.0	0	2.0979	0.00
17) C110 2-Butanone	6.80	6.80	.00	72.0	1108	.1333	4.35
18) CS15 D4-1,2-dichloroethan	8.23	8.21	.01	65.0	148091	1.7574	44.12
19) *C110 1,4-Difluorobenzene	9.08	9.08	.00	114.0	485806	1.0000	50.00
20) C125 Vinyl Acetate	5.96	0.00	--	43.0	0	.5819	0.00
21) C115 1,1,1-Trichloroethan	7.65	0.00	--	97.0	0	.5540	0.00
22) C120 Carbon Tetrachloride	7.96	0.00	--	117.0	0	.4824	0.00
23) C165 Benzene	8.33	0.00	--	78.0	0	1.0182	0.00
24) C150 Trichloroethene	9.60	0.00	--	130.0	0	.4056	0.00
25) C140 1,2-Dichloropropane	10.07	0.00	--	63.0	0	.3950	0.00
26) C130 Bromodichloromethane	10.70	0.00	--	83.0	0	.6175	0.00
27) C175 2-Chloroethylvinylet	11.42	0.00	--	63.0	0	.2138	0.00
28) C143 Cis-1,3-Dichloroprop	11.73	0.00	--	75.0	0	.6058	0.00
29) C172 Trans-1,3-dichloropr	13.14	0.00	--	75.0	0	.4753	0.00
30) C160 1,1,2-Trichloroethan	13.61	0.00	--	97.0	0	.3200	0.00
31) C155 Dibromochloromethane	14.65	0.00	--	129.0	0	.5130	0.00
32) C180 Bromoform	18.83	0.00	--	173.0	0	.3269	0.00
33) *C120 D5-Chlorobenzene	16.26	16.27	.01	117.0	382381	1.0000	50.00
34) CS05 D8-Toluene	12.40	12.40	.00	98.0	490844	1.2671	50.65
34)D CS05 D8-Toluene	12.40	12.76	.36	98.0	2682	1.2671	.28
34)D CS05 D8-Toluene	12.40	12.85	.46	98.0	1432	1.2671	.15
35) C205 4-Methyl-2-pentanone	12.14	12.18	.04	43.0	8275	.3665	2.95
36) C230 Toluene	12.54	12.55	.01	92.0	1706	.8674	.26
37) C210 2-Hexanone	14.35	0.00	--	43.0	0	.2493	0.00
38) C220 Tetrachloroethene	13.95	0.00	--	164.0	0	.4665	0.00
39) C235 Chlorobenzene	16.35	16.35	.00	112.0	2617	1.0936	.31
40) C240 Ethylbenzene	16.74	0.00	--	106.0	0	.5476	0.00
41) CXXX Xylenes (p)	17.10	0.00	--	106.0	0	.6560	0.00
42) CXXX Xylenes (o)	18.29	18.27	.01	106.0	1225	.6457	.25
43) C245 Styrene	18.35	18.33	.01	104.0	2926	1.1380	.34
44) C225 1,1,2,2-Tetrachloroe	20.52	0.00	--	83.0	0	.6669	0.00
45) CS10 Bromofluorobenzene	19.92	19.93	.01	95.0	273644	.7436	48.12
46) C335 Dichlorobenzene (m)	23.52	23.50	.03	146.0	3554	1.0000	.42
46)D C335 Dichlorobenzene (m)	23.52	23.80	.28	146.0	3456	1.0945	.41
47) C335 Dichlorobenzene (m)	23.52	23.50	.03	146.0	3554	1.0000	.42

000302

49	C250 Xylenes (total)	18.29	0.00	--	10e.0	1.545	0.00
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\* - Compound is an Internal Standard  
D - Compound Deleted

Internal Standard Comparison

Sample: F2752 Date Injected: 10/06/91 Standard: F2751 ✓

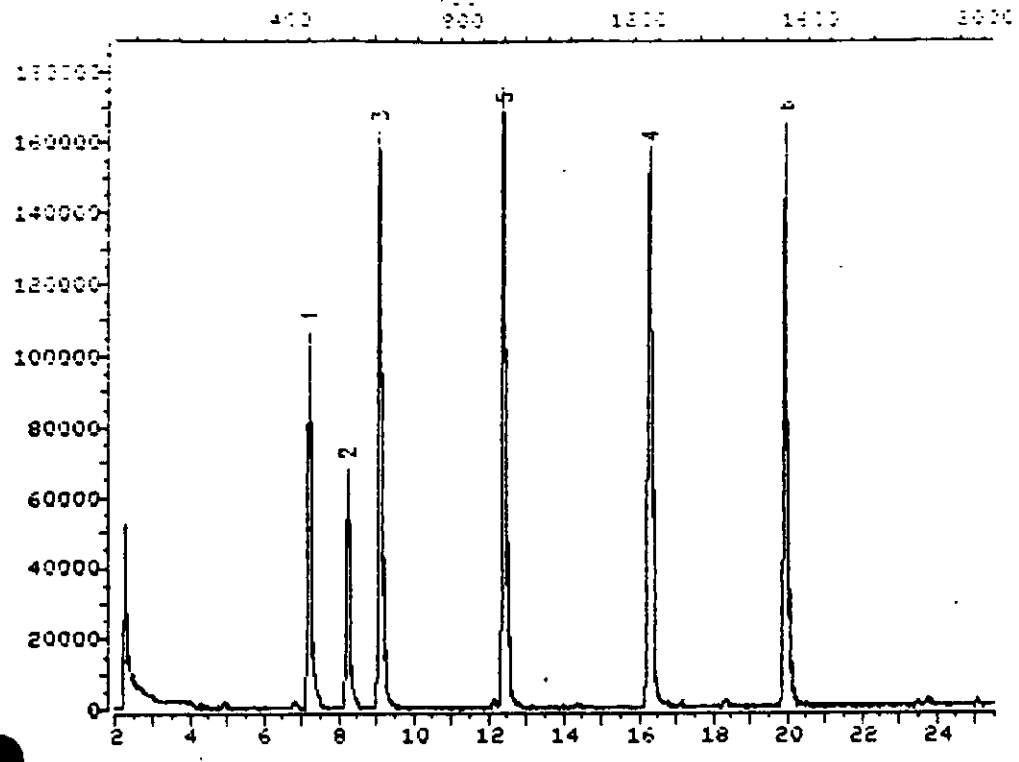
Internal Standard	Sample Area	Std Area	%
C101 Bromochloromethane	96509	87593	109.0
C110 1,4-Difluorobenzene	425806	477342	101.8
C120 2,5-Chlorobenzene	382381	362068	105.6

% = (Sample Area / Std Area) \* 100

\* Area outside limits

DATA DIR: D:\DATA\06FAM

File: F1772 25.0-000.0 amu. 0.000000 0.000000 0.000000 0.000000 0.000000



Data File: >F2752::D6  
Name: VBLK 01 5ML.  
Misc: U6, CH#16, 5UL IS/S

Quant Output File: ^F2752::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: 911006 10:30

Operator ID: KERYLYNN  
Quant Time : 911006 13:44  
Injected at: 911006 11:18

000305

Operator ID: EPVLRMN  
 Method File: F2752:07  
 Data File: F2752:06  
 Name: BELK01.PIL  
 Misc: 06, CH#16, SUL IONS

Quant Pa: 7      Quant Time: 911006.1314  
 Injected amt: 911006.1314  
 Dilution Factor: 1.10000  
 Instrument ID: 06

ID File: MOBID6:MT  
 Title: HSL VOLATILES: 25m x .53mm: DB624 U6 ERCDENSECO  
 Last Calibration: 910814 09:37      Last Qual Time: 911006 10:30

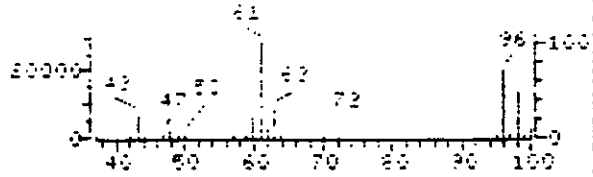
Compound	R.T.	Q ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.20	128.0	95509	50.00	UG/L	72
9) C030 Methylene Chloride	4.91	84.0	2490	.755	UG/L	83
17) C110 2-Butanone	6.80	72.0	1108	4.35	UG/L	78
18) CS15 D4-1,2-dichloroethane	8.21	65.0	148091	44.12	UG/L	89
19) *C110 1,4-Difluorobenzene	9.08	114.0	485806	50.00	UG/L	100
33) *C120 D5-Chlorobenzene	16.27	117.0	382381	50.00	UG/L	100
34) CS05 D8-Toluene	12.40	98.0	490844	50.65	UG/L	88
35) C205 4-Methyl-2-pentanone	12.18	43.0	8275	2.95	UG/L	88
36) C230 Toluene	12.55	92.0	1706	.257	UG/L	79
37) C235 Chlorobenzene	16.35	112.0	2617	.313	UG/L	70
38) CXXX Xylenes (o)	18.27	106.0	1225	.248	UG/L	77
43) C245 Styrene	18.33	104.0	2926	.336	UG/L	100
45) CS10 Bromofluorobenzene	19.93	95.0	273644	48.12	UG/L	73
46) C335 Dichlorobenzene (m)	23.50	146.0	3554	.425	UG/L	100
47) C340 Dichlorobenzene (p)	23.80	146.0	3456	.453	UG/L	100
48) C350 Dichlorobenzene (o)	25.01	146.0	4125	.535	UG/L	100

\* Compound is ISTD



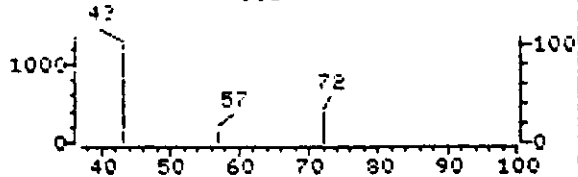
REFERENCE STANDARD SPECTRUM

File F0054 C110 2-Butanone Scan 415  
Bpk At 12517. SUB 6.54 min.



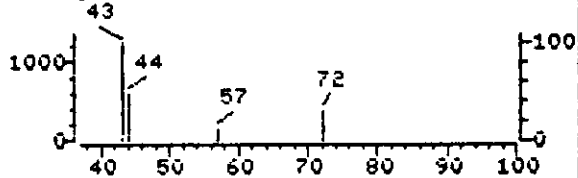
SAMPLE SPECTRUM (BASE-PEAK SUBTRACTED)

File F2752 VBLK. 5ML. Scan 417  
Bpk At 1253. SUB 6.80 min.

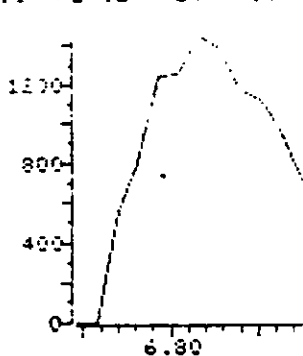


SAMPLE SPECTRUM (UNALTERED)

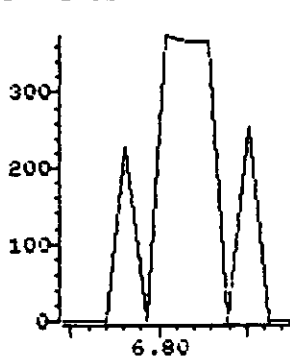
File >F2752 VBLK. 5ML. Scan 417  
Bpk At 1253. SUB 6.80 min.



File F2752 43.7-41.7 min



File >F2752 71.7-72.7 min



Data File: >F2752::D6  
Name: VBLK01 5ML.  
Misc: U6, CH#16, 5UL IS/S  
Quant Time: 911006 13:44  
Injected at: 911006 11:18  
Last Qcal Time: 911006 10:30

Quant Output File: ^F2752::D7  
Instrument ID: U6

Quant ID File: MOBID6::MT  
Last Calibration: 910814 09:37

Compound No : 17  
Compound Name : C110 2-Butanone  
Scan Number : 417  
Retention Time: 6.80 min.  
Quant Ion : 72.0  
Area : 1108.  
Concentration : 4.35 UG/L  
q-value : 78

Data Reduced by : JZ Date: 10/6/91  
Data Reviewed by : \_\_\_\_\_ Date: \_\_\_\_\_

Data File: F0790

Ercebo TIC Report Page 1

Sample: UBLK.01 5ML.  
Conditions: Vol. CH4lo, PUL 15MS

Run Factor: 1.00  
Analyst: KER LHM

#	Scan	Q	C	Concentration In Sample (UG/L )	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

*No Unknowns*

000308

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK02  
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3515  
 Level: (low/med) MED Date Received: \_\_\_\_\_  
 % Moisture: not dec. 0 Date Analyzed: 10/15/91  
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND 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	520	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	640	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	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.

VBLK02

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

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

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A3515

Level: (low/med) MED Date Received: \_\_\_\_\_

% Moisture: not dec. 0 Date Analyzed: 10/15/91

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
=====	=====	=====	=====	=====

MC  
8240-S

L-CTC-11-CA  
R-101591-VIA

reduced by: VP Date: 10/15/91 Date filed: 10/17/91  
re-reduced by: VP Date: 10/17/91 Page: 1  
Enschede 50115  
Target Compound data summary sheet  
MEC12  
2-But

Sample: DBLK01MEOH 5ML  
Misc : 01 LHM1 50LTS 1000L/5ML MEOH LUT # AY323  
Injected : 10/15/91 13:03 Units: UG/KG  
Analyst: ALANA Run Factor: 125.000  
ID File: VOA1D1 Surrogate vol: 1.500  
Quant list threshold: 1.00

Surrogate Spike Recoveries

Compound	Surrogate Spiked	Amount (ug) Measured	% Recovery Measured	QC limits
CS15 D4-1,2-Dichloroethane	25.00	22.66	90.6	70 121
CS05 D8-Toluene	25.00	24.33	97.3	81 117
CS10 Bromofluorobenzene (BFB)	25.00	23.73	94.9	74 121

Target Compounds: VOA1D1

Scan #	Concentration UG/L	Sample UG/KG	Compound
		BDL	C010 Chloromethane
		BDL	C020 Vinyl Chloride
		BDL	C015 Bromomethane
		BDL	C025 Chloroethane
221	2.378	<del>297.5</del>	C045 1,1-Dichloroethene
		BDL	C035 Acetone
247	4.18 <del>2.285</del>	285.6	C040 Carbon Disulfide
		522.5	C030 Methylene Chloride <u>DU 101591</u>
		BDL	C053 Trans-1,2-Dichloroethene
		BDL	C055 cis-1,2-Dichloroethene
		BDL	C050 1,1-Dichloroethane
		BDL	C060 Chloroform
363	5.144	643.0	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 Trichloroethane
		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

000311

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)

Diagnostic Grant Report

File # : 43515:01      Injected at : 13:03 10 1991  
 Quant # : 15:29 10/15/91  
 ID File : H0A101:\$\$      Calibrated : 11:24 10 1991

- R.T. Info -

Compound		Pred	Found	Diff	Ion	Area	RF	Conc.
1) *C101	Bromochloromethane	6.71	6.68	.10	128.0	62146	1.0000	50.88
2) C010	Chloromethane	2.91	0.00	--	50.0	0	1.3236	0.00
3) C020	Vinyl Chloride	3.01	0.00	--	62.0	0	1.3365	0.00
4) C015	Bromomethane	3.32	0.00	--	94.0	0	.5380	0.00
5) C025	Chloroethane	3.42	0.00	--	64.0	0	.6963	0.00
6) C045	1,1-Dichloroethene	4.18	0.00	--	96.0	0	1.0752	0.00
7) C035	Acetone	4.27	4.29	.02	43.0	1308	.4096	2.38
8) C040	Carbon Disulfide	4.42	0.00	--	76.0	0	4.0948	0.00
9) C030	Methylene Chloride	4.69	4.66	.03	84.0	5669	1.8473	2.29
10) C053	Trans-1,2-Dichloroe	5.00	0.00	--	96.0	0	1.7306	0.00
11) C055	cis-1,2-Dichloroeth	6.26	0.00	--	96.0	0	2.0337	0.00
12) C050	1,1-Dichloroethane	5.50	0.00	--	63.0	0	3.2472	0.00
13) C060	Chloroform	6.71	0.00	--	83.0	0	3.7480	0.00
14) C065	1,2-Dichloroethane	7.60	0.00	--	62.0	0	2.5307	0.00
15) C110	2-Butanone	6.29	6.32	.02	72.0	1502	.2174	5.14
16) C515	04-1,2-Dichloroetha	7.49	7.50	.01	65.0	114743	1.8850	45.33
17) *C110	1,4-Difluorobenzene	8.35	8.25	.10	114.0	358658	1.0000	50.00
18) C125	Vinyl Acetate	5.58	0.00	--	43.0	0	.6399	0.00
19) C115	1,1,1-Trichloroetha	7.00	6.99	.02	97.0	1967	.5388	.51
20) C120	Carbon Tetrachlorid	7.27	0.00	--	117.0	0	.5110	0.00
21) C165	Benzene	7.60	0.00	--	78.0	0	1.0939	0.00
22) C150	Trichloroethene	8.71	0.00	--	130.0	0	.4515	0.00
23) C140	1,2-Dichloropropane	9.14	0.00	--	63.0	0	.4033	0.00
24) C130	Bromodichloromethan	9.69	0.00	--	83.0	0	.5724	0.00
25) C175	2-Chloroethylvinyle	10.35	0.00	--	63.0	0	.2325	0.00
26) C143	Cis-1,3-Dichloropro	10.65	0.00	--	75.0	0	.6111	0.00
27) C172	Trans-1,3-Dichlorop	11.93	0.00	--	75.0	0	.5393	0.00
28) C160	1,1,2-Trichloroetha	12.37	0.00	--	97.0	0	.3539	0.00
29) C155	Dibromochloromethan	13.32	0.00	--	129.0	0	.5679	0.00
30) C180	Bromofarm	17.31	0.00	--	173.0	0	.4748	0.00
31) *C120	05-Chlorobenzene	15.03	14.95	.08	117.0	311674	1.0000	50.00
32) C505	08-Toluene	11.31	11.26	.04	98.0	392777	1.2949	48.66
33) C205	4-Methyl-2-Pentanon	11.09	0.00	--	43.0	0	.4262	0.00
34) C230	Toluene	11.45	11.42	.03	92.0	589	.8303	.11
35) C210	2-Hexanone	13.16	0.00	--	43.0	0	.3083	0.00
36) C220	Tetrachloroethene	12.76	0.00	--	164.0	0	.5137	0.00
37) C235	Chlorobenzene	15.03	15.04	.00	112.0	616	1.1099	.09
38) C240	Ethylbenzene	15.39	0.00	--	106.0	0	.5468	0.00
39) CXXX	Xylene ( p )	15.76	0.00	--	106.0	0	.6591	0.00
40) CXXX	Xylene ( o )	16.88	0.00	--	106.0	0	.6231	0.00
41) C245	Styrene	16.96	0.00	--	104.0	0	1.0930	0.00
42) C225	1,1,2,2-Tetrachloro	19.10	0.00	--	83.0	0	.6769	0.00
43) C510	Bromofluorobenzene	18.49	18.51	.01	95.0	184540	.6238	47.46
44) C335	Dichlorobenzene ( m	22.00	0.00	--	146.0	0	1.0034	0.00
45) C340	Dichlorobenzene ( p	22.32	0.00	--	146.0	0	1.0105	0.00
46) C350	Dichlorobenzene ( o	23.52	0.00	--	146.0	0	.9809	0.00
47) C250	Xylene (Total)	16.88	0.00	--	106.0	0	.617	0.00

000319

S

Internal Standard Comparison

Sample: >A3515 Date injected: 10/15/91 Standard: >A3513

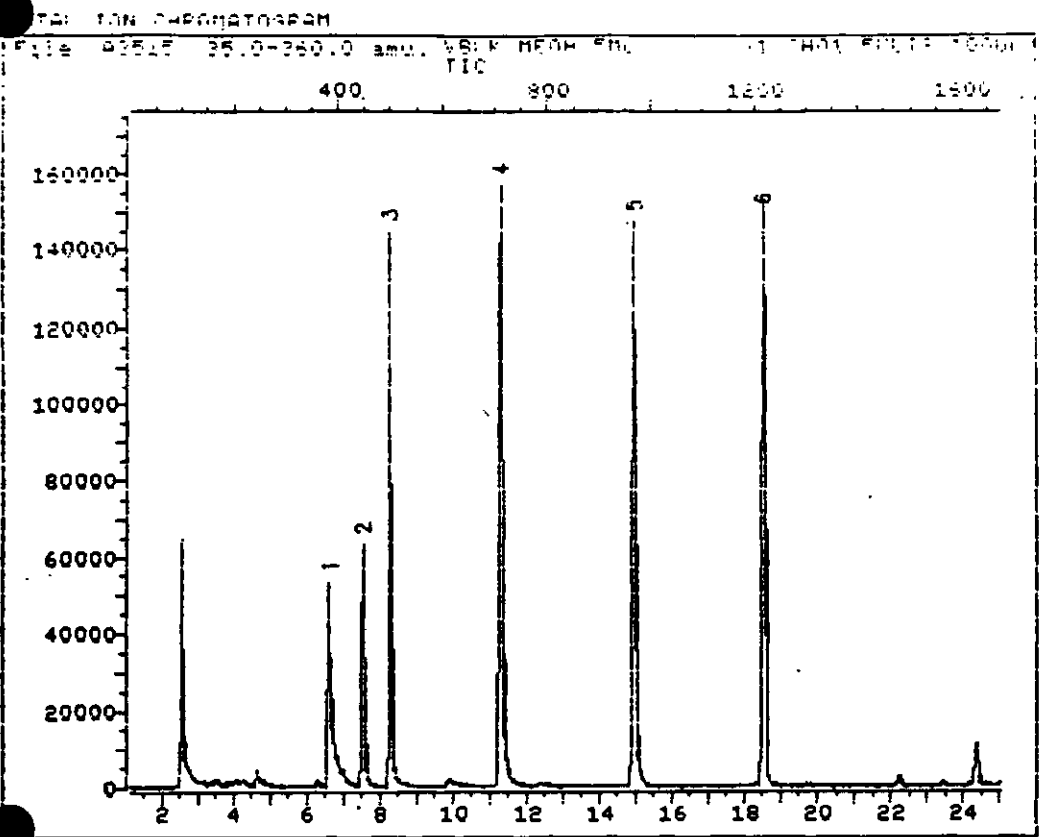
Internal Standard	Sample Area	Std Area	%
CI01 Bromochloromethane	67146	63438	105.8
CI10 1,4-Difluorobenzene	358658	339941	105.5
CI20 O5-Chlorobenzene	311674	284949	109.4

% = (Sample Area/Std Area)\*100

\* Area outside limits

000314





Data File: >A3515::D1                      Quant Output File: >A3515::QT  
 Name: UBLK0)MEOH 5ML  
 Misc: V1 CH01 5ULIS 100UL/5ML MEOH LOT # AY323

Id File: UDAID1::\$\$  
 Title: HSL VOLATILES:105mmx.53mm:DB624:V1:ERCO/ENSECO  
 Last Calibration: 911015 11:54

Operator ID: ALANA  
 Quant Time: 911015 13:29  
 Injected at: 911015 13:03

Unit: Percent

Operator: JG: ALNH  
Output File: A3515:01  
Data File: A3515:01  
Name: UBLK01MECH 5ML

Quant. Method: Quant. Method: 911015 10:15  
Injected at: 911015 10:15  
Dilution Factor: 1.0000

Misc: 01 CH01 50UL'S 100UL 5ML MECH LOT # AY325

ID File: 00A101:\$\$

Title: HSL VOLATILES:105mmx.53mm:08624:01:ERLU/ENSECU

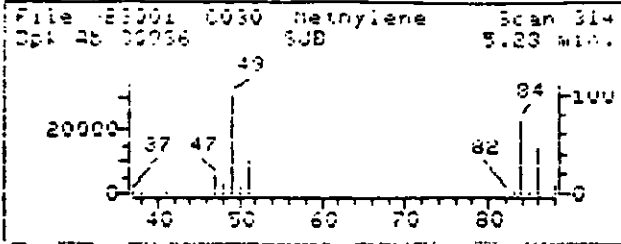
Last Calibration: 911015 11:54

	Compound	R.T.	Q	Ion	Area	Conc	Units	q
1)	*C101 Bromochloromethane	6.60	128.0		67146	50.00	UG/L	37
7)	C035 Acetone	4.29	43.0		1308	2.38	UG/L	100
9)	C030 Methylene Chloride	4.66	84.0		10368	4.18	UG/L	96
15)	C110 2-Butanone	6.32	72.0		1502	5.14	UG/L	81
16)	CS15 04-1,2-Dichloroethane	7.50	65.0		114743	45.33	UG/L	86
17)	*C110 1,4-Difluorobenzene	8.25	114.0		358658	50.00	UG/L	100
19)	C115 1,1,1-Trichloroethane	6.99	97.0		1967	.51	UG/L	88
31)	*C120 05-Chlorobenzene	14.95	117.0		311674	50.00	UG/L	100
32)	CS05 08-Toluene	11.26	98.0		392777	48.66	UG/L	86
34)	C230 Toluene	11.42	92.0		589	.11	UG/L	93
37)	C235 Chlorobenzene	15.04	112.0		616	.09	UG/L	88
47)	CS10 Bromofluorobenzene (BFB)	18.51	95.0		184540	47.46	UG/L	96

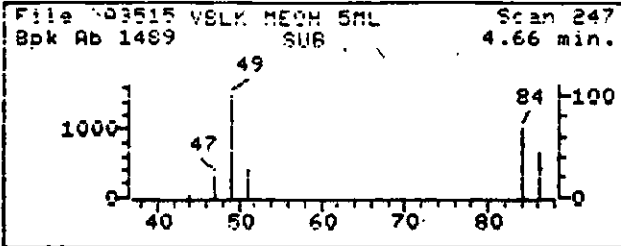
\* Compound is ISTD

000316

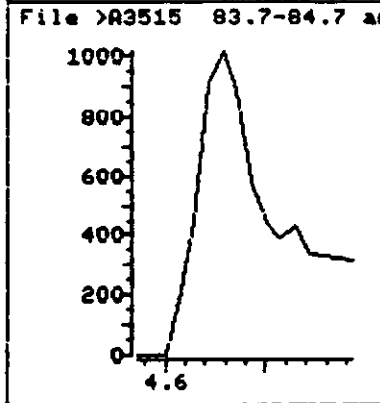
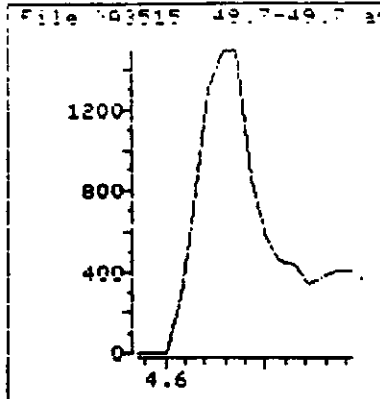
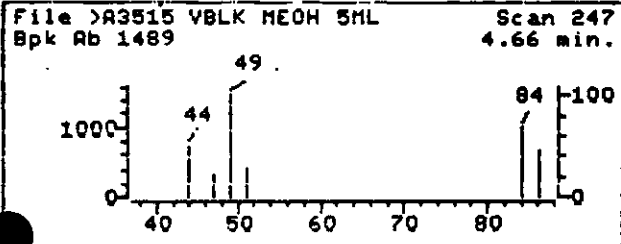
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A3515::D1

Quant Output File: >A3515::QT

Name: VBLK@MECH 5ML

Misc: V1 CH01 5ULIS 100UL/5ML MECH LOT # AY323

Quant Time: 911015 13:29

Quant ID File: VOAID1::\$\$

Injected at: 911015 13:03

Last Calibration: 911015 11:54

Compound No: 9

Compound Name: C030 Methylene Chloride

Scan Number: 247

Retention Time: 4.66 min.

Quant Ion: 84.0

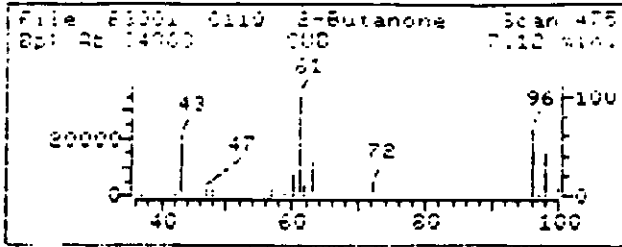
Area: 5669

Concentration:

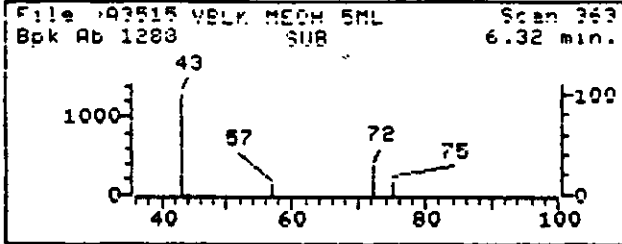
q-value: 96

~~2.29~~ UG/L 4.18 µg/L  
 RW 10/5/91

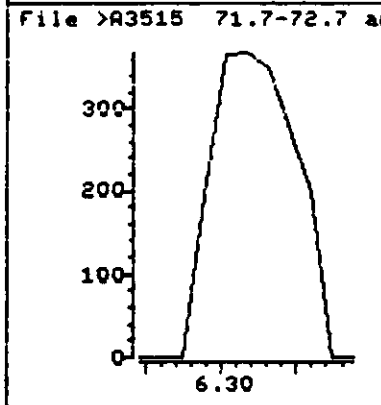
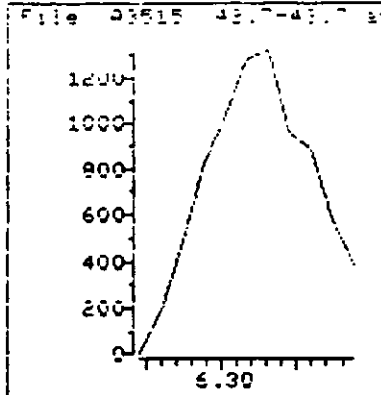
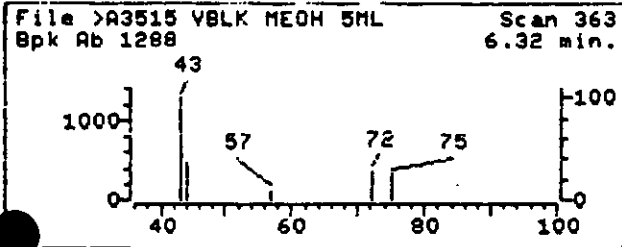
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A3515::D1

Name: VBLK MECH 5ML

Misc: V1 CH01 5ULIS 100UL/5ML MECH LOT # AY323

Quant Time: 911015 13:29

Injected at: 911015 13:03

Quant Output File: ^A3515::QT

Quant ID File: VQAID1::\$\$

Last Calibration: 911015 11:54

Compound No: 15

Compound Name: C110 2-Butanone

Scan Number: 363

Retention Time: 6.32 min.

Quant Ion: 72.0

Area: 1502

Concentration: 5.14 UG/L

q-value: 81

000318

Data Produced by : RSJ Date: 10/5/91  
Data Reviewed by : AK Date: 10/17/91

Data File: 7A3515

Enseco TIC Report (page 1)

Sample: VBLK01MEUH 5ML Run Factor: 125.  
Conditions: VI CH01 5UL15 100UL/5ML MEUH L Analyst: ALANA

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
1	98.			3100.	<del>00-00-0</del>	Solvent front

000319

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 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

Job Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 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
=====	=====	=====	=====	=====

NC

R-100891-60A 5-77

Reduced by: JZ  
Reviewed by: NR

Date: 10/8/91  
Date: 10/14/91

Data File: >F2798  
Page: 1

>F2798  
CS2  
2 B.L.

Enseco Mass Spectrometry  
Target Compound Data Summary Sheet

Sample: HBLK03 5ML HD.  
Vial: 16, CR#02, 5UL 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	Amount (ug) Measured	% Recovery Measured	UL Limits
S17 D4-1,2-dichloroethane	.2500	.2497	99.9	70 121
S07 D8-toluene	.2500	.2608	104	84 117
S10 Bromofluorobenzene	.2500	.2630	105	59 121

Target Compounds: HAMID6

Scan #	Concentration UG/L	Quant List Sample UG/KG	Compound
		BUL	C012 Dichlorodifluoromethane
		BUL	C010 Chloromethane
		BUL	C020 Vinyl Chloride
		BUL	C015 Bromomethane
		BUL	C025 Chloroethane
		BUL	C028 Trichlorofluoromethane
		BUL	C045 1,1-Dichloroethene
		BUL	C058 1,1,2-Trichloro-1,2,2-tri
225	4.885	4.9	C055 Acetone
		BUL	C040 Carbon Disulfide
		BUL	C050 Methylene Chloride
		BUL	C053 Trans-1,2-dichloroethene
		BUL	C055 Cis-1,2-dichloroethene
		BUL	C050 1,1-Dichloroethane
		BUL	C060 Chloroform
422	5.638	5.6	C065 1,2-Dichloroethane
		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	C150 Bromodichloromethane
		BUL	C175 2-Chloroethylvinylether
		BUL	C145 Cis-1,3-Dichloropropene
		BUL	C172 Trans-1,3-dichloropropene



Sample: 08LK 5ML HIU.

Concentration			
Scan #	Quant List	Sample	Compound
	UG/L	UG/ML	
	BDL		L160 1,1,2-Trichloroethane
	BDL		L155 Dibromochloromethane
	BDL		L180 Bromoform
	BDL		L205 4-Methyl-2-pentanone
	BDL		L230 Toluene
	BDL		L210 2-Hexanone
	BDL		L220 Tetrachloroethane
	BDL		L235 Chlorobenzene
	BDL		L240 Ethylbenzene
	BDL		LXXX Xylenes (p)
	BDL		LXXX Xylenes (o)
	BDL		L245 Styrene
	BDL		L225 1,1,2,2-tetrachloroethane
	BDL		L335 Dichlorobenzene (m)
	BDL		L340 Dichlorobenzene (p)
	BDL		L350 Dichlorobenzene (o)
	BDL		L250 Xylenes (total)

Chlorinated Hydrocarbons

File: C:\MSDCHEM\DATA\00000001.D

Printed: 08/01/97 11:00

File: C:\MSDCHEM\DATA\00000001.D

Chlorinated Hydrocarbons

Retard	Peak	Name	Area	Conc	Ident	Area	RF	Conc
1)	*C111	Bromochloromethane	7.27	7.26	.03	108.0	34171	1.0000
2)	C112	Dibromochloromethane	1.48	0.00	--	98.0	0	1.5751
3)	C010	Chloromethane	2.57	0.00	--	90.0	0	1.2079
4)	C011	Hydrochloride	2.67	0.00	--	90.0	0	1.0196
5)	C018	Bromomethane	3.24	0.00	--	94.0	0	1.1129
6)	C025	Chloroethane	3.38	0.00	--	94.0	0	.6917
7)	C028	Trichlorofluoromethane	3.67	0.00	--	101.0	0	1.9143
8)	C048	1,1-Dichloroethane	4.31	0.00	--	96.0	0	1.0123
9)	C038	1,1,2-Trichloro-1,2,	4.31	0.00	--	101.0	0	2.3058
10)	C035	Acetone	4.42	0.00	--	43.0	0	.4330
11)	C040	Carbon Disulfide	4.62	4.63	.02	76.0	24599	2.9923
11D)	C040	Carbon Disulfide	4.62	4.87	.25	76.0	1320	2.9923
12)	C030	Methylene Chloride	4.97	0.00	--	84.0	0	1.4571
13)	C053	Trans-1,2-dichloroet	5.33	0.00	--	96.0	0	1.4870
14)	C055	Cis-1,2-dichloroethe	6.85	0.00	--	96.0	0	1.7015
15)	C059	1,1-Dichloroethane	5.95	0.00	--	63.0	0	2.8582
16)	C060	Chloroform	7.41	0.00	--	83.0	0	3.1850
17)	C065	1,2-Dichloroethane	8.44	0.00	--	62.0	0	2.1457
18)	C110	2-Butanone	6.91	6.93	.01	72.0	2991	.3151
19)	C018	04-1,2-dichloroethan	8.30	8.29	.01	65.0	144254	1.7156
20)	*C110	1,4-Difluorobenzene	9.12	9.14	.02	114.0	416706	1.0000
21)	C125	Vinyl Acetate	6.01	0.00	--	43.0	0	.9307
22)	C115	1,1,1-Trichloroethan	7.71	0.00	--	97.0	0	.5330
23)	C120	Carbon Tetrachloride	8.00	0.00	--	117.0	0	.4382
24)	C165	Benzene	8.38	0.00	--	78.0	0	.9528
25)	C150	Trichloroethene	9.67	0.00	--	130.0	0	.3865
26)	C140	1,2-Dichloropropane	10.13	0.00	--	63.0	0	.4025
27)	C130	Bromodichloromethane	10.75	0.00	--	83.0	0	.6435
28)	C175	2-Chloroethylvinylet	11.49	0.00	--	63.0	0	.2689
29)	C143	Cis-1,3-Dichloroprop	11.80	0.00	--	75.0	0	.5928
30)	C172	Trans-1,3-dichloropr	13.22	0.00	--	75.0	0	.5155
31)	C160	1,1,2-Trichloroethan	13.67	0.00	--	97.0	0	.3815
32)	C155	Dibromochloromethane	14.71	0.00	--	129.0	0	.5619
33)	C180	Bromoform	18.92	0.00	--	173.0	0	.4211
34)	*C120	D5-Chlorobenzene	16.30	16.34	.04	117.0	313814	1.0000
35)	C005	D8-Toluene	12.45	12.46	.01	98.0	410688	1.2547
35D)	C005	D8-Toluene	12.45	12.82	.37	98.0	2270	1.2547
36)	C205	4-Methyl-2-pentanone	12.23	0.00	--	43.0	0	.9161
37)	C230	Toluene	12.62	0.00	--	92.0	0	.8255
38)	C210	2-Hexanone	14.45	0.00	--	43.0	0	.6983
39)	C220	Tetrachloroethene	14.03	0.00	--	164.0	0	.4264
40)	C235	Chlorobenzene	16.42	0.00	--	112.0	0	1.0439
41)	C240	Ethylbenzene	16.81	0.00	--	106.0	0	.4965
42)	CXXX	Xylenes (p)	17.18	0.00	--	106.0	0	.6578
43)	CXXX	Xylenes (o)	18.36	0.00	--	106.0	0	.6174
44)	C245	Styrene	18.42	0.00	--	104.0	0	1.0869
45)	C225	1,1,2,2-Tetrachloroe	20.60	0.00	--	83.0	0	1.0059
46)	C010	Bromofluorobenzene	20.00	19.98	.01	95.0	249376	.7553
47)	C335	Dichlorobenzene (m)	23.58	23.56	.02	146.0	1464	.9166
47D)	C335	Dichlorobenzene (m)	23.58	23.88	.30	146.0	2263	.9166
48D)	C335	Dichlorobenzene (m)	23.58	23.56	.02	146.0	1464	.9166

000324

CONFIDENTIAL - SECURITY INFORMATION

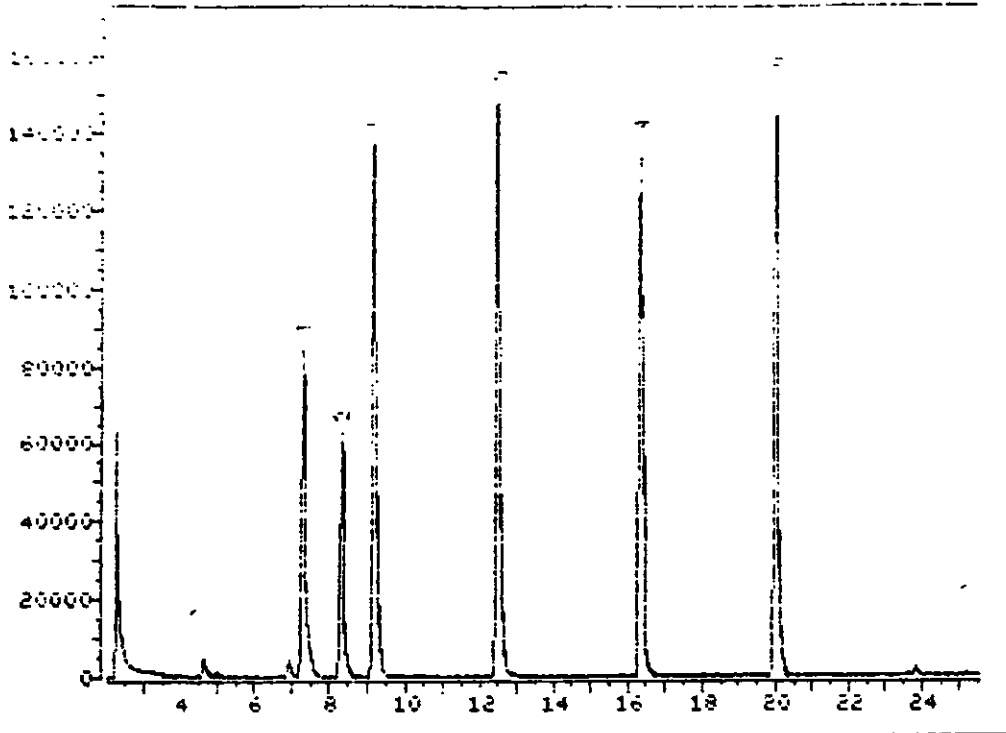
Approved for Release by NSA on 05-08-2014 pursuant to E.O. 13526

Intercept, Standard Intercepts



Sample Area	Area	Area	Area
100 100-100-100-100-100-100	8-171	110-110	111-111
100 100-100-100-100-100	110-110	111-111	112-112
100 100-100-100-100-100	110-110	111-111	113-113

\* = Sample Area 100 Area 1.00  
 \* Area outside limits



Data File: ^F2798::D6  
Name: UBLK03 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 ERCD/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

000327

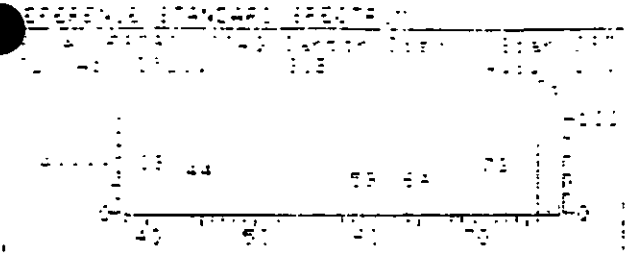
Date: 10/18/88  
 Time: 11:20  
 Operator: V.KC3  
 Method: 81-101-10-1

Sample: 101-101-10-1  
 Volume: 100  
 Weight: 100  
 Concentration: 100

File: 101-101-10-1  
 Title: 101-101-10-1  
 Last Calibration: 10-18-88 11:20  
 Method: 81-101-10-1  
 Last Test Time: 10-18-88 11:20

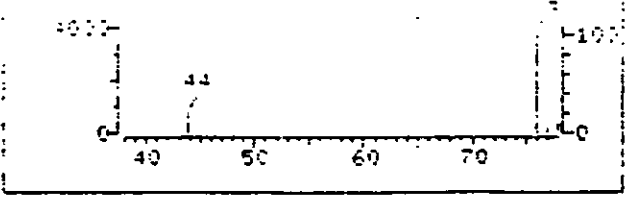
Compound	P.T.	Q Ion	Area	Conc	Units	
10) *C101 Bromochloromethane	7.26	109.0	84171	50.00	UG/L	80
11) C040 Carbon Disulfide	4.63	76.0	24599	4.88	UG/L	100
18) C110 2-Butanone	6.93	72.0	2991	5.64	UG/L	97
19) C015 04-1,2-dichloroethane	8.29	65.0	144254	49.95	UG/L	85
20) *C110 1,4-Difluorobenzene	9.14	114.0	416706	50.00	UG/L	100
34) *C120 05-Chlorobenzene	16.34	117.0	313814	50.00	UG/L	100
35) C009 08-Toluene	12.46	99.0	410688	52.15	UG/L	92
46) C010 Bromofluorobenzene	19.98	95.0	249376	52.50	UG/L	74
47) C035 Dichlorobenzene (m)	23.56	146.0	1464	.254	UG/L	100
48) C040 Dichlorobenzene (p)	23.88	146.0	2263	.375	UG/L	100

Compound is 1010



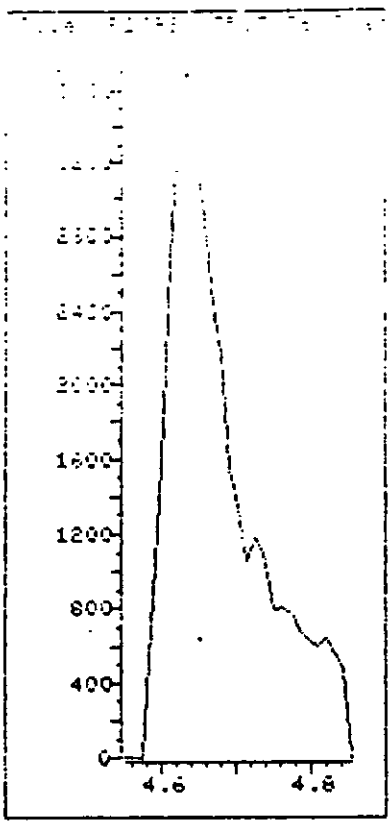
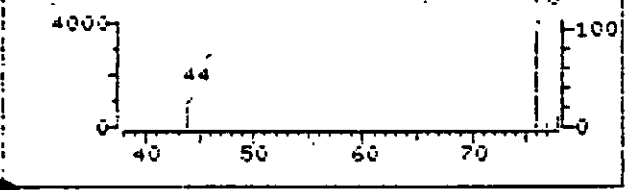
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File #F2798 VBLK 5ML HTD. Scan 225  
 Bpk Ab 3721. 4.63 min.



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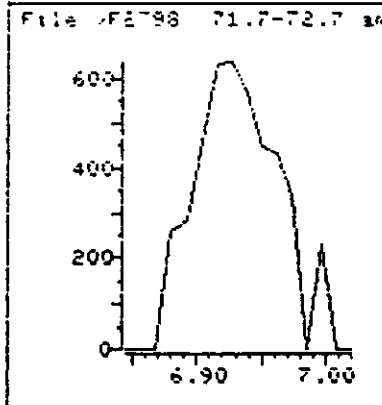
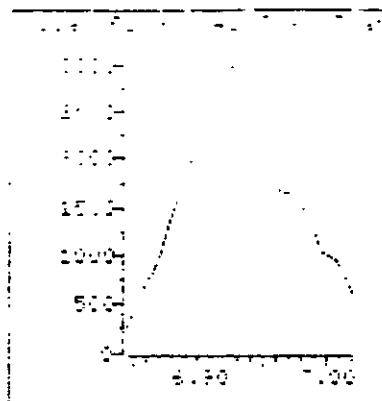
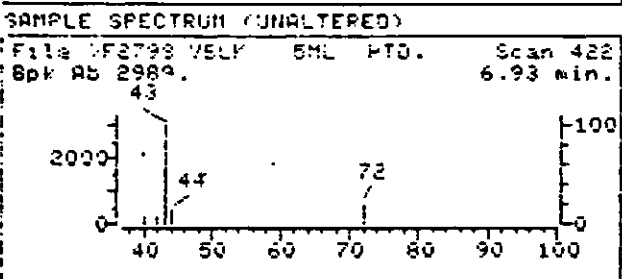
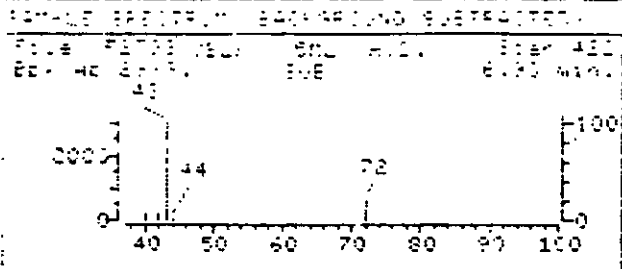
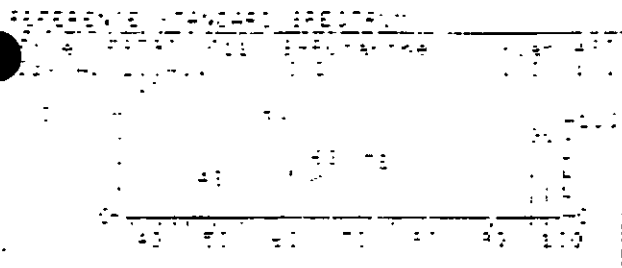
File #F2798 VBLK 5ML HTD. Scan 225  
 Bpk Ab 3721. 4.63 min.



Data File: ^F2798::D6  
 Name: VBLK03 5ML HTD.  
 Misc: U6, CH#02, 5UL IS/S  
 Quant Time: 911008 14:37  
 Injected at: 911008 14:09  
 Last Cal 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



Data File: ^F2798::D6  
 Name: USLK03 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



Sample No: 3 Date: 10/3/91  
Lab No: 2 Date: 10/4/91

03  
Concentration in Sample

#	Scan	Q	C	MS	IS	LMS #	Compound
---	------	---	---	----	----	-------	----------

*No Unknowns*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_  
 Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK04  
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2886  
 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:  
(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	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

Sample Name: ENSECO-ERCO Contract: \_\_\_\_\_  
Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: BLANK04  
Sample wt/vol: 4.0 (g/mL) G Lab File ID: F2886  
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

100

3346-3

624-A → L-100991V6A

R-101091V6B

7 F 3886

clean

Date: 10/19/91  
Date: 10/14/91

Method: MERYL-AN  
File: M0F106  
Ant. list threshold: 1.00

Unit: ug/L  
Cor Factor: 125.0  
Surrogate Spike: 25.00

Surrogate Spike Recoveries:

Compound	Surrogate Spiked	Amount Measured	% Recovery Measured	OC Limit
S15 04-1,2-dichloroethane	25.00	24.95	99.8	70 101
S05 08-Toluene	25.00	24.42	97.7	81 117
S10 Bromofluorobenzene	25.00	25.05	100	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

000334

Peak #	IS L	Sample	US 15	Compound
	BDL			C155 Dibromodichloroethane
	BDL			C180 Bromoform
	BDL			C198 4-Methyl-2-pentanone
	BDL			C270 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)

Chromatogram

File: 80-9001  
 Date: 11/11/71  
 Calibrated: 11/11/71

Peak	Label	Chemical Name	Peak	Area	Conc	Found	Dif	Ion	Area	Conc
1	*C101	Bromochloromethane	7.29	7.21	.08	128.0	61117	1.3000	50.00	
2	C117	Chloromethane	7.67	0.00	--	80.0	0	1.2701	0.00	
3	C020	Vinyl Chloride	2.91	0.00	--	62.0	0	1.5700	0.00	
4	C118	Bromomethane	3.19	0.00	--	94.0	0	1.1411	0.00	
5	C025	Chloroethane	3.31	0.00	--	64.0	0	1.7304	0.00	
6	C048	1,1-Dichloroethane	4.28	0.00	--	96.0	0	1.5714	0.00	
7	C035	Acetone	4.35	0.00	--	43.0	0	1.2202	0.00	
8	C040	Carbon Disulfide	4.58	0.00	--	76.0	0	4.2994	0.00	
9	C030	Methylene Chloride	4.93	4.88	.05	84.0	1682	1.9489	0.71	
10	CXXX	Tert-butyl alcohol	5.08	0.00	--	59.0	0	1.0770	0.00	
11	C053	Trans-1,2-dichloroet	5.30	0.00	--	96.0	0	1.9080	0.00	
12	C055	Cis-1,2-dichloroethe	6.81	0.00	--	96.0	0	2.0414	0.00	
13	CXXX	Methyl tert-butyl et	5.30	0.00	--	73.0	0	3.2861	0.00	
14	C050	1,1-Dichloroethane	5.91	0.00	--	63.0	0	3.5944	0.00	
15	C060	Chloroform	7.35	0.00	--	83.0	0	4.0227	0.00	
16	C065	1,2-Dichloroethane	8.37	0.00	--	62.0	0	2.2965	0.00	
17	C110	2-Butanone	6.82	0.00	--	72.0	0	1.1243	0.00	
18	C015	D4-1,2-dichloroethan	8.23	8.25	.02	65.0	112777	1.8492	49.80	
19	*C110	1,4-Difluorobenzene	9.18	9.09	.09	114.0	376794	1.9000	50.00	
20	C125	Vinyl Acetate	5.97	0.00	--	43.0	0	1.4990	0.00	
21	C115	1,1,1-Trichloroethan	7.68	0.00	--	97.0	0	1.5573	0.00	
22	C120	Carbon Tetrachloride	7.97	0.00	--	117.0	0	1.4441	0.00	
23	C165	Benzene	8.35	0.00	--	78.0	0	1.9866	0.00	
24	C150	Trichloroethane	9.61	0.00	--	130.0	0	1.4234	0.00	
25	C140	1,2-Dichloropropane	10.09	0.00	--	63.0	0	1.3961	0.00	
26	C130	Bromodichloromethane	10.70	0.00	--	83.0	0	1.5620	0.00	
27	C175	2-Chloroethylvinylet	11.42	0.00	--	63.0	0	1.1692	0.00	
28	C143	Cis-1,3-Dichloroprop	11.73	0.00	--	75.0	0	1.5458	0.00	
29	C172	Trans-1,3-dichloropr	13.14	0.00	--	75.0	0	1.4248	0.00	
30	C160	1,1,2-Trichloroethan	13.59	0.00	--	97.0	0	1.2976	0.00	
31	C155	Dibromochloromethane	14.64	0.00	--	129.0	0	1.4414	0.00	
32	C180	Bromoform	18.80	0.00	--	173.0	0	1.2534	0.00	
33	*C120	D5-Chlorobenzene	16.40	16.29	.11	117.0	318652	1.0000	50.00	
34	C005	D8-Toluene	12.42	12.41	.01	98.0	379985	1.2209	48.83	
35	C205	4-Methyl-2-pentanone	12.18	0.00	--	43.0	0	1.3090	0.00	
36	C230	Toluene	12.58	0.00	--	92.0	0	1.7974	0.00	
37	C210	2-Hexanone	14.37	0.00	--	43.0	0	1.2092	0.00	
38	C220	Tetrachloroethene	13.99	0.00	--	164.0	0	1.4080	0.00	
39	C235	Chlorobenzene	16.37	0.00	--	112.0	0	1.9815	0.00	
40	C240	Ethylbenzene	16.74	0.00	--	106.0	0	1.5010	0.00	
41	CXXX	Xylenes (p)	17.12	17.11	.01	106.0	1131	1.6233	0.28	
42	CXXX	Xylenes (o)	18.31	0.00	--	106.0	0	1.5877	0.00	
43	C245	Styrene	18.35	0.00	--	104.0	0	1.0250	0.00	
44	C225	1,1,2,2-Tetrachloroe	20.53	0.00	--	83.0	0	1.5339	0.00	
45	C010	Bromofluorobenzene	19.95	19.96	.01	95.0	235149	1.7366	50.09	
46	C335	Dichlorobenzene (m)	23.50	0.00	--	146.0	0	1.8135	0.00	
47	C340	Dichlorobenzene (p)	23.81	0.00	--	146.0	0	1.7418	0.00	
48	C350	Dichlorobenzene (o)	25.04	0.00	--	146.0	0	1.7841	0.00	
49	C250	Xylenes (total)	18.31	0.00	--	106.0	0	1.5700	0.00	

000336

010  
010  
010

107010  
080007  
60019

200812  
70010  
21119

Free outside limits  
\* Sample provided free of charge

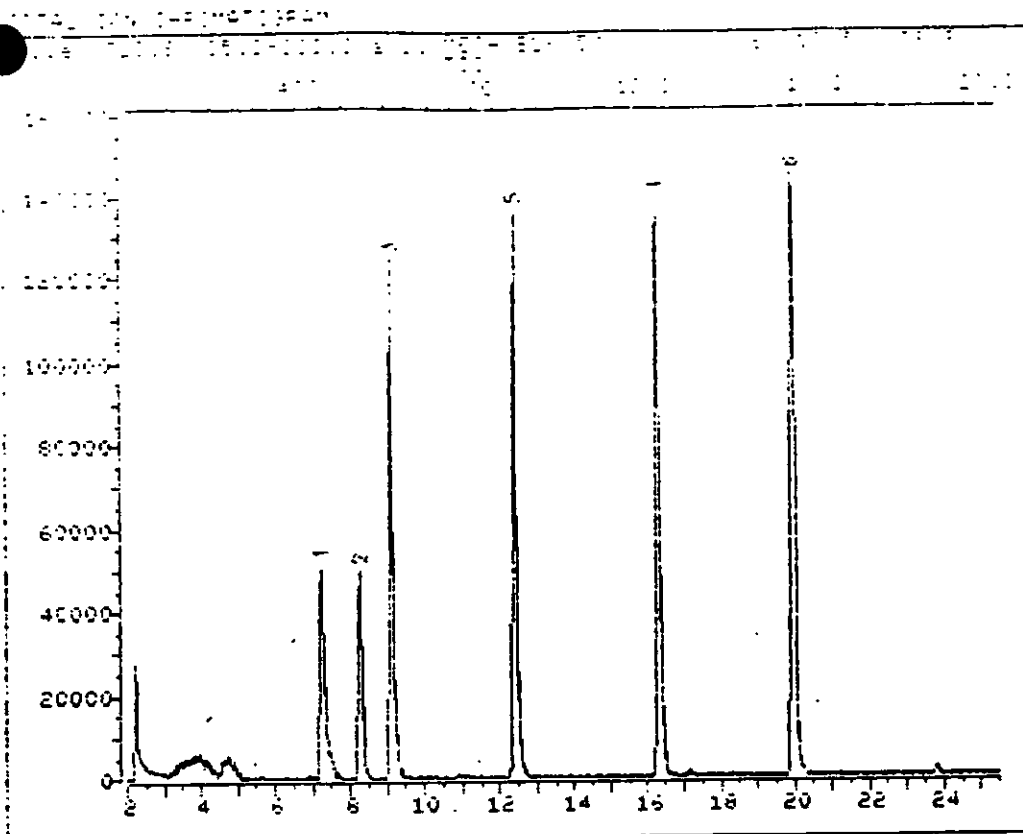
101 Bacterial Culture  
111 Fungal Culture  
120 Serology

Call for details

101 Bacterial Culture

101 Bacterial Culture

101 Bacterial Culture



Data File: >F2886::D6  
Name: MEOH BLK 5ML *VALUOM*  
Misc: U6 C12 5UL IS/S

Quant Output File: ^F2886::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: 911010 22:48

Operator ID: KERYLYNN  
Quant Time : 911011 01:06  
Injected at: 911011 00:39



Report Date: 12/24/2014  
 Report Time: 09:37:37  
 File Name: F:\2014\12\24\141224093737  
 Sample Name:

Report Date: 12/24/2014  
 Report Time: 09:37:37  
 Method: EPA 8210  
 Injection Volume: 1.00000

Method: EPA 8210  
 Injection Volume: 1.00000  
 Vial No: 5

File Name: 141224093737  
 Date: 12/24/2014 09:37:37  
 Last Calibration: 12/24/2014 09:37:37  
 Last Calibration: 12/24/2014 09:37:37

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *C101 Bromochloromethane	7.21	128.0		61117	50.00	UG/L	70
9) C030 Methylene Chloride	4.88	84.0		1682	.706	UG/L	64
18) CS15 D4-1,2-dichloroethane	8.25	65.0		112777	49.89	UG/L	90
19) *C110 1,4-Difluorobenzene	9.09	114.0		376794	50.00	UG/L	100
33) *C120 D5-Chlorobenzene	16.29	117.0		318652	50.00	UG/L	100
34) CS05 D8-Toluene	12.41	98.0		379985	48.83	UG/L	89
41) CXXX Xylenes (p)	17.11	106.0		1131	.235	UG/L	12
45) CS10 Bromofluorobenzene	19.96	95.0		235149	50.00	UG/L	73

\* Compound is ISTD

000340

*no unknowns*

Compound # CAS #

# Scan 0 0 (UG-MS)  
In Sample  
Concentration

Peak # 1  
Retention Time 1.212

*bulk*

Peak Name: 1,2-DICHLOROETHANE  
Peak Formula: C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>

Sample ID: 1

Date Filed: 10/19/91

File Name: 101191  
Date: 10/19/91  
Checked by: [Signature]  
Date: 10/19/91

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: BLANK05

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.

VBLK05

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: BLANK05

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: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C8H16O ISOMER	21.24	23000	J
2.	METHYLETHYLBENZENE ISOMER	21.50	6300	J
3.	UNKNOWN ALKANE	22.10	9500	J
4.	C9H18O ISOMER	22.40	39000	J
5.	C3-BENZENE ISOMER	23.03	16000	J
6.	UNKNOWN	23.47	6600	J
7.	C3-BENZENE ISOMER	24.41	5800	J
8.	C4-BENZENE ISOMER	25.31	7500	J
9.	C4-BENZENE ISOMER	25.58	9300	J
10.	UNKNOWN ALKANE	26.28	5800	J

Reduced by:             
Reviewed by:           

Date: 10/14/91  
Date:           

Data File: >B2981  
Page: 1

0.5 .41  
101491

NIC

~~101391 J2A~~  
101491 J2A

Enseco GC/MS

Target Compound Data Summary Sheet

Sample: MEQH UBLK0100UL/5ML  
Misc : V2 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

Toluene

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	25.86	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	<del>2.599</del>	<del>294.4</del>	C035 Acetone
301	<del>1.123</del>	<del>148.4</del>	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	609.0	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

000343

Scan #	Concentration Quant list UG/L	Sample UG/KG	Compound
	BDL		C180 Bromoform
	BDL		C205 4-Methyl-2-Pentanone
961	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)

*J*  
*HB 10/21/91*

## Diagnostic Quant Report

Data File: &gt;B2981::06 Injected at: 15:33 10/14/91

Quant'd : 16:03 10/14/91

ID File : UOAI02::\$\$ Calibrated : 14:19 10/14/91

		- R.T. Info -						
Compound		Pred	Found	Dif	Ion	Area	RF	Conc.
1) *C101	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) *C110	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) *C120	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	.9753	.17

000345

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

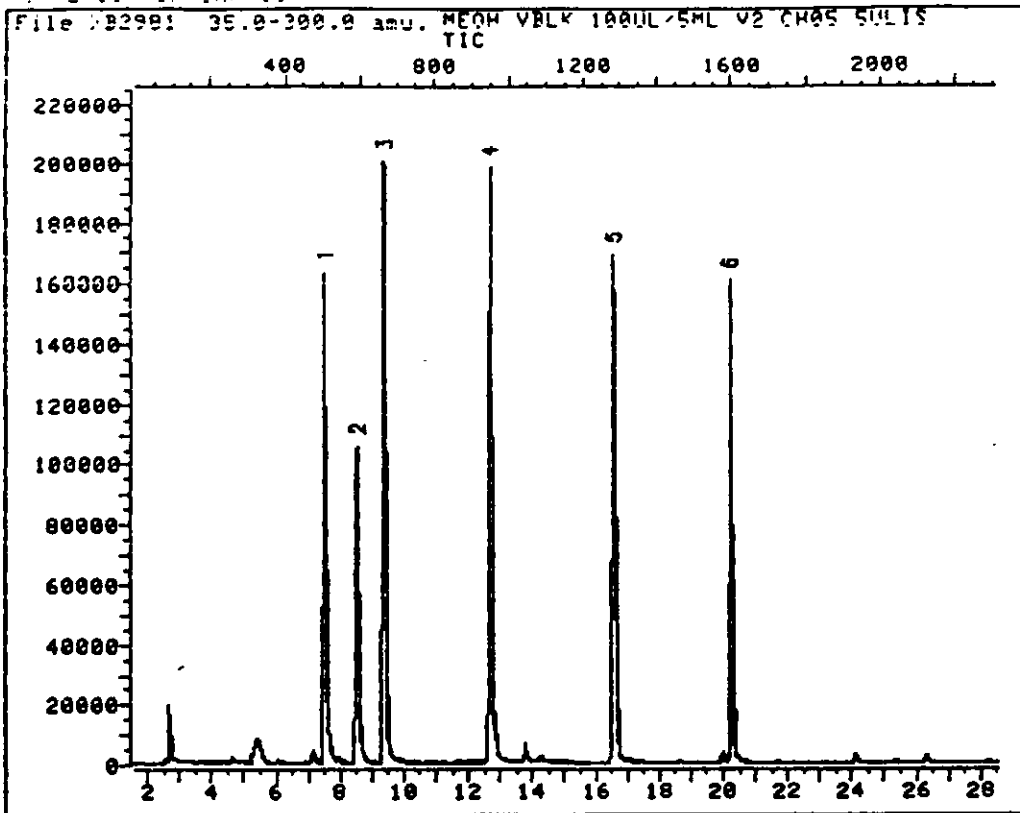
% = (Sample Area/Std Area)\*100

\* Area outside limits

000346



TOTAL ION CHROMATOGRAM



Data File: >82981::D6  
Name: MEQH VBLK 100UL/5ML  
Misc: V2 CH05 5ULIS

Quant Output File: ^82981::QT

Id File: UOAI02::\$\$  
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

000347

QUANT REPORT

Operator ID: ALANA  
 Output File: ^B2981::QT  
 Data File: >B2981::D6  
 Name: MEOK UBLK 100UL/5ML  
 Misc: V2 CH05 5ULIS

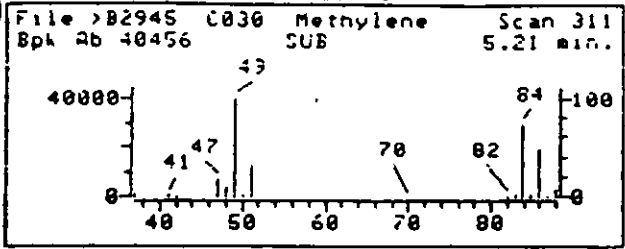
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 Injected at: 911014 15:33  
 Dilution Factor: 1.00000

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 Last Calibration: 911014 14:19

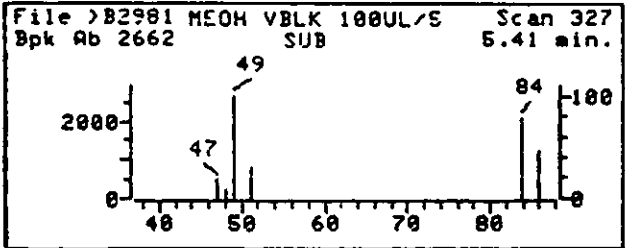
	Compound	R.T.	Q-ion	Area	Conc	Units	q
1)	*CI01 Bromochloromethane	7.48	128.0	109638	50.00	UG/L	81
9)	C030 Methylene Chloride	5.41	84.0	28869M	4.99	UG/L	81
15)	C110 2-Butanone	7.12	43.0	11550	4.87	UG/L	97
16)	CS15 04-1,2-Dichloroethane	8.50	65.0	190264	52.50	UG/L	85
17)	*CI10 1,4-Difluorobenzene	9.37	114.0	477278	50.00	UG/L	100
31)	*CI20 05-Chlorobenzene	16.56	117.0	329712	50.00	UG/L	100
32)	CS05 08-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

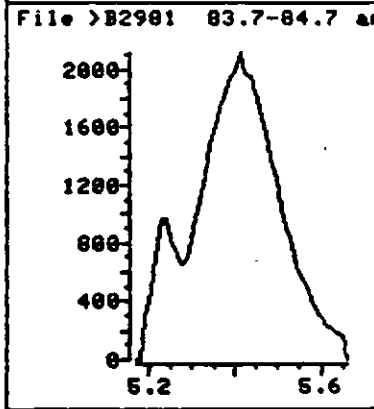
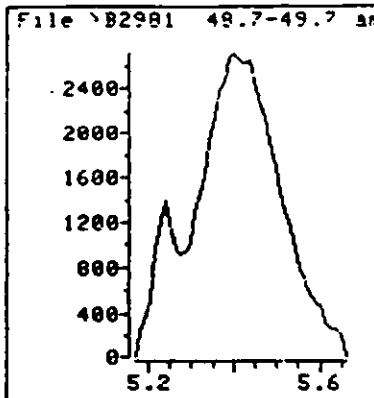
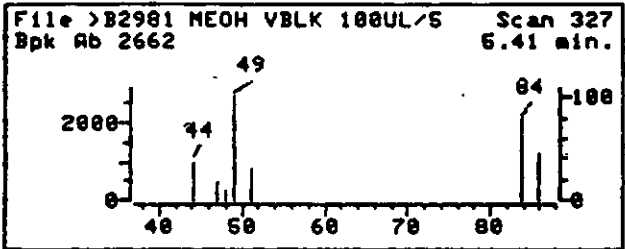
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



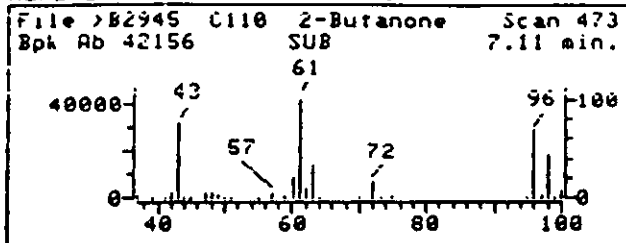
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Name: MEOH VBLK 100UL/5ML  
Misc: V2 CH05 5ULIS  
Quant Time: 911014 16:03  
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

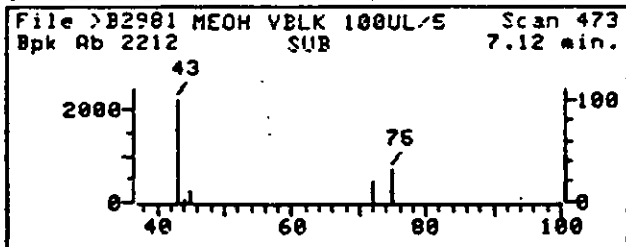
Quant ID File: UOA1D2::\$\$  
Last Calibration: 911014 14:19

Compound No: 9  
Compound Name: C030 Methylene Chloride  
Scan Number: 327  
Retention Time: 5.41 min.  
Quant Ion: 84.0  
Area: 28869M  
Concentration: 4.99 UG/L  
q-value: 81

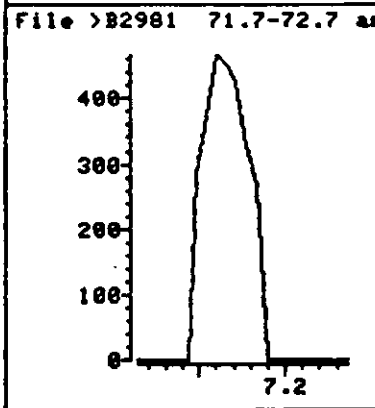
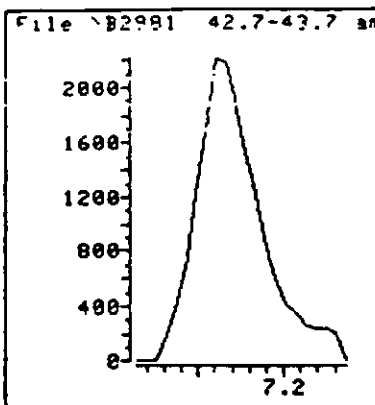
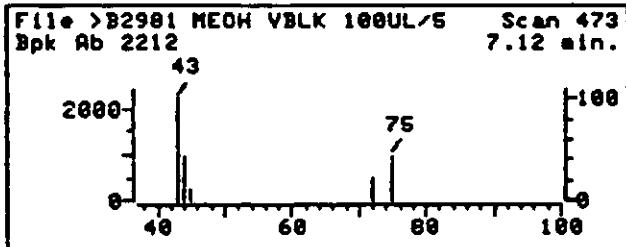
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



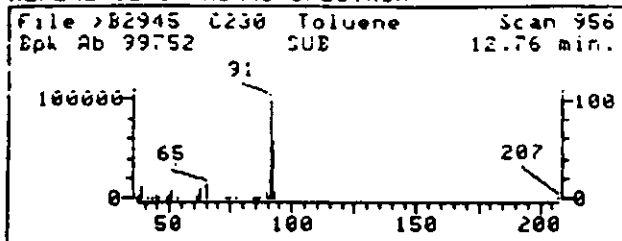
Data File: >B2981::D6  
Name: MEOH VBLK 100UL/5ML  
Misc: U2 CH05 5ULIS  
Quant Time: 911014 16:03  
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

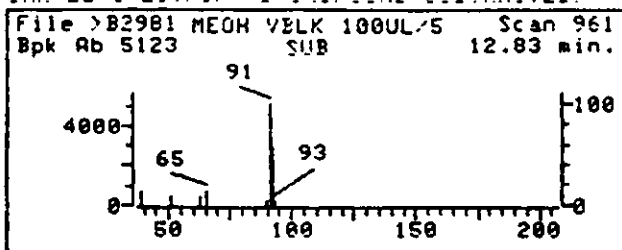
Quant ID File: UOAI02::\$\$  
Last Calibration: 911014\_14:19

Compound No: 15  
Compound Name: C110 2-Butanone  
Scan Number: 473  
Retention Time: 7.12 min.  
Quant Ion: 43.0  
Area: 11550  
Concentration: 4.87 UG/L  
q-value: 97

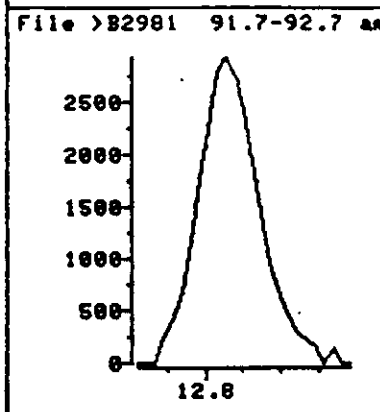
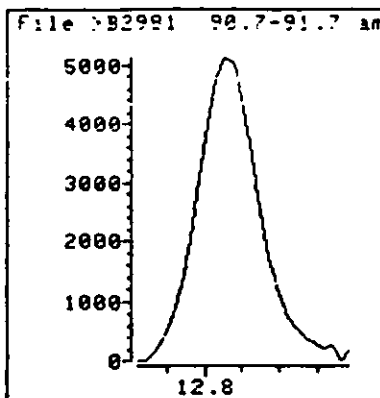
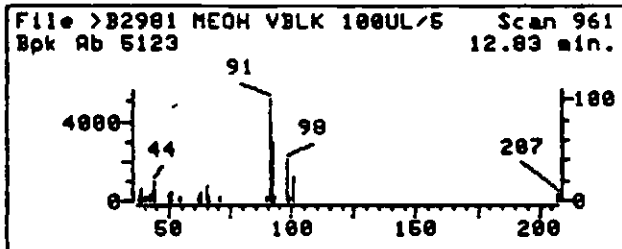
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >B2981::D6  
Name: MEOH UBLK/100UL/5ML  
Misc: U2 CH05 5ULIS  
Quant Time: 911014 16:03  
Injected at: 911014 15:33

Quant Output File: ^B2981::QT

Quant ID File: VOAID2::\$\$  
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 UNKs

Data Reduced by : NA Date: 12/4/91  
Data Reviewed by : RV Date: 12/12/91

Data File: >82981

Enseco TIC Report (page 1)

Sample: MEDH UBLK05100UL/5ML  
Conditions: V2 CH05 5ULIS

Run Factor: 125.  
Analyst: ALANA

#	Scan	Q	C	Concentration In Sample (UG/KG)	CAS #	Compound
---	------	---	---	---------------------------------------	-------	----------

NO unknowns

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK06

Lab Name: ENSECO-ERCO Contract: \_\_\_\_\_

Lab Code: EERCO Case No.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: BLANK06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2732

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

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91

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	5	U
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.: 10126 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: BLANK06  
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2732  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/05/91  
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



NC

7F2732

Chan

Date: 10/5/91      Date Filed: \_\_\_\_\_  
 Date: 10/6/91      Date: \_\_\_\_\_  
 Target Compound Data Summary Sheet

Sample: MSLK 26      PUL  
 Misc : 06, CH#03, PUL 15:5  
 Injected : 10/05/91 15:26  
 Analyst: KERYL ANN  
 ID File: M0BID6  
 Quant List threshold: 1.00

Units: UG/L  
 Run Factor: 1.000  
 Surrogate vol: .999

Surrogate Spike Recoveries

*no unknowns*

Compound	Surrogate Amount (ug)		% Recovery Measured	QC limits
	Spiked	Measured		
CS15 D4-1,2-dichloroethane	.2500	.2441	97.6	76 114
CS05 D8-Toluene	.2500	.2495	99.8	88 110
CS10 Bromofluorobenzene	.2500	.2558	102	86 115

Target Compounds: M0BID6

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
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

000355

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)

Diagnostic Quant Report

Date Filed: FC732:06 Injected at: 15:26 10 08 91  
 Quant: 12:57 10 08 91  
 ID File: MCE:06:01T Calibrated: 09:37 08 14 91

		- P.T. info -						
Compound		Pred	Found	Dif	Ion	Area	RF	Cont.
1)	*C101 Bromochloromethane	7.13	7.17	.04	128.0	75898	1.0000	50.00
2)	C010 Chloromethane	2.63	0.00	--	50.0	0	1.2795	0.00
3)	C020 Vinyl Chloride	2.77	0.00	--	62.0	0	1.2163	0.00
4)	C015 Bromomethane	3.16	0.00	--	94.0	0	1.0877	0.00
5)	C025 Chloroethane	3.29	0.00	--	64.0	0	.7092	0.00
6)	C045 1,1-Dichloroethene	4.25	0.00	--	96.0	0	1.3313	0.00
7)	C035 Acetone	4.32	0.00	--	43.0	0	.2589	0.00
8)	C040 Carbon Disulfide	4.54	0.00	--	76.0	0	3.9189	0.00
9)	C030 Methylene Chloride	4.88	4.88	.00	84.0	1621	1.6545	.65
10)	CXXX Tert-butyl alcohol	5.05	0.00	--	59.0	0	.0770	0.00
11)	C053 Trans-1,2-dichloroet	5.26	0.00	--	96.0	0	1.6464	0.00
12)	C055 Cis-1,2-dichloroethe	6.76	0.00	--	96.0	0	1.8854	0.00
13)	CXXX Methyl tert-butyl et	5.27	0.00	--	73.0	0	2.9749	0.00
14)	C050 1,1-Dichloroethane	5.87	0.00	--	63.0	0	3.1591	0.00
15)	C060 Chloroform	7.29	0.00	--	83.0	0	3.7242	0.00
16)	C065 1,2-Dichloroethane	8.33	0.00	--	62.0	0	2.1732	0.00
17)	C110 2-Butanone	6.79	0.00	--	72.0	0	.1512	0.00
18)	CS15 D4-1,2-dichloroethan	8.19	8.19	.00	65.0	127452	1.7243	48.82
19)	*C110 1,4-Difluorobenzene	9.00	9.03	.03	114.0	420345	1.0000	50.00
20)	C125 Vinyl Acetate	5.93	0.00	--	43.0	0	.6181	0.00
21)	C115 1,1,1-Trichloroethan	7.61	0.00	--	97.0	0	.5735	0.00
22)	C120 Carbon Tetrachloride	7.92	0.00	--	117.0	0	.4757	0.00
23)	C165 Benzene	8.29	0.00	--	78.0	0	1.0014	0.00
24)	C150 Trichloroethene	9.55	0.00	--	130.0	0	.4246	0.00
25)	C140 1,2-Dichloropropane	10.03	0.00	--	63.0	0	.4199	0.00
26)	C130 Bromodichloromethane	10.65	0.00	--	83.0	0	.6324	0.00
27)	C175 2-Chloroethylvinylet	11.39	0.00	--	63.0	0	.2024	0.00
28)	C143 Cis-1,3-Dichloroprop	11.69	0.00	--	75.0	0	.6252	0.00
29)	C172 Trans-1,3-dichloropr	13.11	0.00	--	75.0	0	.4986	0.00
30)	C160 1,1,2-Trichloroethan	13.58	0.00	--	97.0	0	.3453	0.00
31)	C155 Dibromochloromethane	14.61	0.00	--	129.0	0	.5216	0.00
32)	C180 Bromoform	18.82	0.00	--	173.0	0	.3118	0.00
33)	*C120 O5-Chlorobenzene	16.18	16.20	.02	117.0	331282	1.0000	50.00
34)	CS05 O8-Toluene	12.31	12.33	.02	98.0	419575	1.2690	49.90
35)	C205 4-Methyl-2-pentanone	12.08	0.00	--	43.0	0	.4176	0.00
36)	C230 Toluene	12.49	0.00	--	92.0	0	.9244	0.00
37)	C210 2-Hexanone	14.29	0.00	--	43.0	0	.3022	0.00
38)	C220 Tetrachloroethene	13.89	0.00	--	164.0	0	.4776	0.00
39)	C235 Chlorobenzene	16.29	0.00	--	112.0	0	1.1252	0.00
40)	C240 Ethylbenzene	16.67	0.00	--	106.0	0	.5495	0.00
41)	CXXX Xylenes (p)	17.04	0.00	--	106.0	0	.6626	0.00
42)	CXXX Xylenes (o)	18.23	0.00	--	106.0	0	.6522	0.00
43)	C245 Styrene	18.28	0.00	--	104.0	0	1.1452	0.00
44)	C225 1,1,2,2-Tetrachloroe	20.46	0.00	--	83.0	0	.7090	0.00
45)	CS10 Bromofluorobenzene	19.86	19.87	.00	95.0	242232	.7147	51.15
46)	C335 Dichlorobenzene (m)	23.43	0.00	--	146.0	0	.8835	0.00
47)	C340 Dichlorobenzene (p)	23.75	0.00	--	146.0	0	.8085	0.00
48)	C350 Dichlorobenzene (o)	24.98	0.00	--	146.0	0	.8123	0.00

000357

Internal Standard Concentration

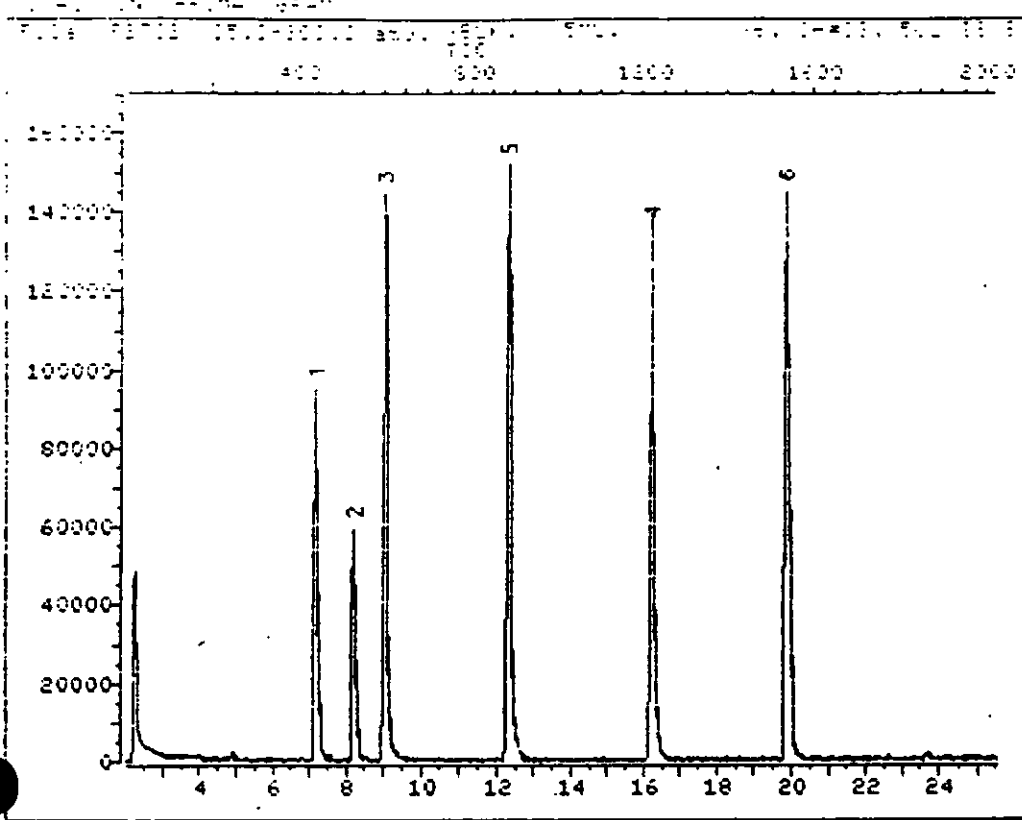
Sample: F2732 Date injected: 10 05 91 Standards: F1 29

Internal Standard	Sample Area	Std Area	%
0101 Bromochloromethane	75698	80626	93.6
0110 1,4-Difluorobenzene	420345	439106	95.7
0120 05-Chlorobenzene	331282	330996	100.1

% = (Sample Area/Std Area)\*100

\* Area outside limits

000358



Data File: >F2732::D6  
 Name: UBLK.06 5ML.  
 Misc: U6, CH#03, 5UL IS/S

Quant Output File: ^F2732::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: 911005 13:23

Operator ID: KERYLYNN  
 Quant Time : 911005 15:53  
 Injected at: 911005 15:26

000359

Operator ID: KERYLMM  
 Output File: F0232::07  
 Data File: F0232::06  
 Name: UBLK 06 5ML  
 Misc: U6, CH#03, SUL ISMS

Plant Pa : 7 Plant Time: 911007 15:14  
 Injected at: 911007 15:14  
 Dilution Factor: 1.00000  
 Instrument ID: U6

ID File: MOBID6::MT

Title: HSL VOLATILES: 75m x .53mm: DB624 U6 EPDOWENSECO

Last Calibration: 910814 09:37

Last Deal Time: 911005 17:07

Compound	R.T.	Q Ion	Area	Conc	Units	q
1) *CI01 Bromochloromethane	7.17	128.0	75698	50.00	UG/L	72
9) C030 Methylene Chloride	4.88	84.0	1621	.647	UG/L	91
18) CS15 O4-1,2-dichloroethane	8.19	65.0	127452	48.82	UG/L	88
19) *CI10 1,4-Difluorobenzene	9.03	114.0	420345	50.00	UG/L	100
33) *CI20 D5-Chlorobenzene	16.20	117.0	331282	50.00	UG/L	100
34) CS05 D8-Toluene	12.33	98.0	419575	49.90	UG/L	94
45) CS10 Bromofluorobenzene	19.87	95.0	242232	51.15	UG/L	73

Compound is ISTD

Sample Received by : VV Date: 1/5/84  
Date Received by : \_\_\_\_\_ Date: \_\_\_\_\_

Lab File: 50771

Enseed TII Report page 1

Sample: MELP.04 FUL  
Conditions: Uo, CH#03, FUL 15/5

Run Factor: 1.00  
Analyst: KERYLYNN

#	Scan	Q	C	Concentration In Sample (UG/L)	CAS #	Compound
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No unknowns.

000361

# **Versar Laboratories**

**ANALYTICAL DATA PACKAGE  
General Chemistry Section**

**CLIENT: ENSECO-ERCO LAB  
SITE: PROJ# 10126  
CODE-BATCH: ERCO - 6  
CONTROL #: 5607  
DATE: 22-OCT-91  
ANALYSIS: TOC**



# Versar Laboratories

## ANALYTICAL NARRATIVE General Chemistry Section

DATE: 22-OCT-91  
CODE/CONTROL: ERCO / 5607  
CLIENT/SITE: ENSECO-ERCO LAB / PROJ# 10126  
PROJECT/BATCH: 420.2 / 6

This task consisted of five 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 7, 1991 and were analyzed October 15. 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*  
Melanie J. Dillman  
General Chemistry Section

*C. Thompson*  
Approved for Release  
Chris Thompson, Section Chief

# Versar Laboratories

## ANALYSIS REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91  
CODE / CONTROL #: ERCO / 5607  
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10126  
PROJECT / BATCH: 420.2.0 / 6

PAGE: 1

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Lab#	Field #	TOC (mg/kg)
63537	UCC-SB-B-11-2C	1,210.
63538	UCC-SB-A-09-4C	3,130.
63539	UCC-SB-B-16-3	7,310.
63540	UCC-SB-C-18-2	8,200.
63541	UCC-SB-B-14-3C	2,320.

C. Thompson  
Laboratory Manager

# Versar Laboratories

## QUALITY ASSURANCE REPORT General Inorganic Chemistry Section

DATE: 22-OCT-91  
CONTROL #: 5607  
CODE / BATCH: ERCO / 6  
CLIENT / SITE: ENSECO-ERCO LAB / PROJ# 10126  
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	471000	100%	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	469000	100%	mg/kg