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## Final Report

# Hot Mix Asphalt Plants Truck Loading and Silo Filling Manual Methods Testing

Asphalt Plant C  
Los Angeles, California

Volume 7 of 8



**FINAL REPORT**

**HOT MIX ASPHALT PLANTS  
TRUCK LOADING AND SILO FILLING  
MANUAL METHODS TESTING  
ASPHALT PLANT C, LOS ANGELES, CALIFORNIA**

**VOLUME 7 OF 8  
APPENDIX G.4**

**EPA Contract No. 68-D-98-004  
Work Assignment No. 3-02**

**Prepared for:**

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**May 2000**

**Submitted by**

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## GLOSSARY OF TERMS

ASTM – American Society for Testing and Materials  
CEMS – Continuous Emissions Monitoring System  
CTS – Calibration Transfer Standard  
EMC – Emissions Measurement Center  
EMAD – Emission Monitoring and Analysis Division  
ESP – Electrostatic Precipitator  
FID – Flame Ionization Detector  
FTIR – Fourier Transform Infrared Spectroscopy  
HAP – Hazardous Air Pollutant  
MCEM – Methylene Chloride Extractable Matter  
MRI – Midwest Research Institute  
PES – Pacific Environmental Services  
PM – Particulate Matter  
PTE – Permanent Total Enclosure  
RAP – Recycled Asphalt  
RTFOT – Rolling Thin Film Oven Test  
SED – Silo Exhaust Duct

## GLOSSARY OF TERMS (CONTINUED)

SMTG – Source Measurement Technology Group  
SVOHAP – Semi-Volatile Organic Hazardous Air Pollutant  
TED – Tunnel Emissions Duct  
TFOT – Thin Film Oven Test  
THC – Total Hydrocarbons  
VOHAP – Volatile Organic Hazardous Air Pollutant  
VOST – Volatile Organic Sampling Train



VOLUME 7

APPENDIX **G**

ANALYTICAL DATA (CONTINUED)

G.4 VOHAPS DATA



APPENDIX G.4  
VOHAPS DATA

(a)

  
**TRIANGLE LABS****CASE NARRATIVE**

**Analysis of Samples for the Presence of  
Volatile Analytes by  
High-Resolution Gas Chromatography / Low-Resolution Mass Spectrometry**

**METHOD 8260**

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**Date :** August 24, 1998  
**Client ID :** Pacific Environmental Services  
**TLI Project Number :** 46297

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**Objective:** Analysis of four VOST tube pairs ( T-V-1-1-A&-B, T-V-1-2-A&-B, T-V-1-3-A&-B, T-V-1-4-A&-B) for a client specified list of volatile compounds, using Method 8260.

**Method:**

Eight VOST tube pairs were received at Triangle Laboratories, Inc. on July 25, 1998 on ice at 6°C in good condition. The samples were stored in a refrigerator at 4°C prior to analysis. The VOST tube sample pairs were analyzed according to the guidelines of Methods 8260 and 5040.

\* {Per client request, the compounds **1,3-butadiene**, vinyl bromide, methyl-t-butylether (MTBE), **n-hexane**, **1,2-epoxybutane**, **iso-octane**, and ethyl acrylate were additional target compounds. A one point calibration was analyzed for these additional compounds and the resulting response factor used for **quantitation**.} The internal standards and **surrogate** standards were added in the amount of 0.25 micrograms (**ug**) immediately prior to analysis by **GC/MS**. The internal standards are pentafluorobenzene, **1,4-difluorobenzene**, and **chlorobenzene-d<sub>3</sub>** and **1,4-dichlorobenzene-d<sub>4</sub>**. The surrogate standards reported are dibromofluoromethane, **toluene-d<sub>8</sub>**, and **4-bromofluorobenzene**. The results reported relate only to the items tested.

The **GC/MS** analysis conditions are listed below:

Purge and trap:	Tekmar LSC-2000
Purge:	11 min.
Desorb Temperature:	250 c
Desorb Time:	4 min.

GC Conditions:

Column:	30 m x .53 mm x 0.3μ J&W DB624
	0 C hold .5 min, 10 C/min to 45C, 6 C/min to 90C, hold 1.5 min, 50 C/min to 200C.

MS Conditions:

Instrument:	VG-TRIO-1 Lab Base data system
Scan:	35-350 amu at .6s/scan
Interface:	Jet Separator, 200 C

**Report:**

Enclosed with the case narrative are copies of **the** sample identification index, the project summary sheets, client paperwork, sample log-in sheets, and log book pages. A sample identification index **summarizes** the client sample name, TLI sample number, and analytical file name for each sample and blank. The project summary lists the amounts for detected analytes in gray. The estimated detection limits will be listed in parentheses when the target analytes are not detected.

The data are reported as quantitation reports, chromatograms. interim reports, and spectra of detected target. The quantitation report header lists the TLI project number, analysis method,

instrument sample tile name, client sample name, client project number, TLI sample number, calibration tile, date received, and analysis date. The response factors used for all calculations are from the calibration file listed in the header. All initial and continuing calibration data are located in the back of the data package. The amount is reported in total ug for the VOST tubes. The retention time (RT) will be listed for all internal standards and analytes which are detected. If a target analyte is not detected, it will be flagged with a "U" and a detection limit will be listed. Estimated detection limits are calculated for all analytes which were not found in the samples by using an area of 2000. The estimated detection limits reported are the average detection limits achievable over time on an instrument type. The actual detection limit for a given compound on a given day may vary from the estimate reported. The quantitation limit for all analytes is half of the low point of the initial calibration. Below this point the calibration cannot be considered to be linear. Any amount reported at a level below the quantitation limit will be flagged with a "J" and should be considered estimated. If any compounds are found at a level above the upper calibration range, the analyte will be flagged with an "E" and the amounts reported should be considered estimated. If any target analytes found in the laboratory blanks are detected in the associated samples, they will be flagged with a "B" on each sample topsheet. All analytes are quantitated against the internal standard preceding them on the target analyte list. Surrogate standards are quantitated against the internal standard with the matching internal standard reference number. For example, **toluene-d<sub>8</sub>** has 2 in the IS Ref column and would be quantitated against the internal standard which has IS2 listed in the flag column. If an internal standard area is above or below the quality control limits as defined by the continuing calibration, it will be flagged with "High" or "Low" in the flag column.

RESULTS ARE POTENTIALLY BIASED HIGH

**Results:**

The VOST tube pairs were analyzed ten days outside the fourteen day sampling to analysis holding time. The VOST tubes were analyzed separately per client request.

The surrogate percent recoveries met all quality control criteria for all sample and blank analyses with the exception of samples T-V-1-1-A and T-V-1-2-A. ACCEPTABLE RANGE 50 - 150 %  
162 %      170 %

The area for internal standard met quality control criteria for all sample and blank analyses with the exception of sample T-V-1-3-B. In this sample the area of pentafluorobenzene was high in comparison to the one point calibration standard.

Sample T-V-1-2-A was analyzed one minute outside the instrument's twelve hour tune time criteria. NO IMPACT ON RESULTS (ONE MINUTE OVER 720 MINUTE WINDOW)

No data was collected for sample T-V-1-4-A, due to GC oven shutting off and not ramping, during the acquisition.

The laboratory blanks contained several target analytes at amounts below the quantitation limit. The target analytes in the laboratory blank should not be considered as truly present in the native samples unless found at a level at least five times the amount found in the associated blank. In the event that the amount of a target analyte found in the samples is twenty times the amount found in the associated blank, the contribution from the blank can be considered negligible.

**Sample Calculations:**

$$\text{Response Factor (RF)} = \frac{[\text{area analyte}] \times (\text{amt IS})}{(\text{area IS}) \times (\text{amt analyte})}$$

$$\text{Amount (ug)} = \frac{(\text{area analyte in sample}) \times (\text{amt IS})}{(\text{area IS}) \times (\text{avg ical RF})}$$

**Where:**

amt IS = amount of internal standard = 0.25 ug  
ical = initial calibration

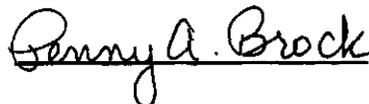
The data in this package has been judged to be valid according to the guidelines of Methods 8260 and 5040 except as noted above. Should you have any questions, please feel free to contact our Project Scientist, Deb. Smith, at (919) 544-5729, ext. 267.

For Triangle Laboratories, Inc.,

Report Preparation:

Quality Control:





Valgena Respass  
Report Preparation Chemist

Penny A. Brock  
Report Preparation Chemist

The total number of pages in this data package is 203

**Triangle Laboratories, Inc.**  
**Sample Identification Index for Project: 46297**

<b>Client Id:</b>	<b>TLI Id:</b>	<b>File Name:</b>
T-V-I-1-AT	214-1-6A	FX883
T-V-I-I-B TC	214-1-6B	FX879
T-V-1-2-A T	214-1-7A	FX895
T-V-1-2-B TC	214-1-78	FX880
T-V-1-3-A T	214-1-8A	HW713
T-V-1-3-B TC	214-1-88	FX882
T-V-1-4-B TC	214-1-9B	FX881
VOSTBLK081798	VOSTBLK08179	FX878
VOSTBLK081898	VOSTBLK08189	FX894
VOSTBLK081998	VOSTBLK08199	HW705

Triangle Laboratories, Inc.  
Project Summary for Project 46297

Client ID:	T-V-1-1-A	T-V-1-1-B	T-V-1-2-A	T-V-1-2-B	T-V-1-3-A
	T	T C	T	T C	T
Filename :	FX883	FX879	FX895	FX880	HW713
TLI Id :	214-1-6A	214-1-6B	214-1-7A	214-1-7B	214-1-8A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Chloromethane	(0.001)	0.075	(0.001)	0.060	(0.001)
Vinyl Chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromomethane	(0.001)	0.056	0.007	0.068	0.005
Chloroethane	(0.001)	(0.001)	(0.001)	(0.001)	0.007
Trichlorofluoromethane	0.008	(0.001)	(0.001)	(0.001)	0.009
1,1-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methylene chloride <i>FIELD</i>	0.303	0.153	0.078	0.248	0.058
trans-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chloroform	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,1-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Iodomethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Carbon disulfide	0.015	(0.001)	0.013	0.004	0.012
Acetone	0.137	(0.004)	0.204	0.039	0.589
Allyl chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acrylonitrile	(0.015)	(0.016)	(0.017)	(0.015)	(0.003)
Vinyl acetate	(0.002)	(0.002)	(0.002)	(0.002)	(0.001)
2-Butanone	0.061	(0.004)	(0.004)	(0.004)	0.509
Carbon tetrachloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Benzene	0.106	(0.001)	0.129	(0.001)	0.516
1,2-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dichloropropane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromodichloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Toluene	0.360	0.020	0.377	0.059	0.455
trans-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2-Trichloroethane	(0.001)	(0.002)	(0.002)	(0.001)	(0.001)
Methyl methacrylate	(0.005)	(0.006)	(0.006)	(0.006)	(0.001)
4-Methyl-2-pentanone	(0.004)	(0.004)	(0.005)	(0.004)	(0.001)
Tetrachloroethene	(0.001)	(0.001)	0.054	(0.001)	0.038
Dibromochloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dibromoethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chlorobenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

Triangle Laboratories, Inc.  
Project Summary for Project 46297

Client ID:	T-V-1-1-A	T-V-1-1-B	T-V-1-2-A	T-V-1-2-B	T-V-1-3-A
	T	TC	T	TC	T
Filename :	FX883	FX879	FX895	FX880	HW713
TLI Id :	214-1-6A	214-1-6B	214-1-7A	214-1-7B	214-1-8A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug

Ethylbenzene	0.137	(0.001)	0.128	(0.001)	0.105
m-/p-Xylene	0.720	(0.001)	0.677	0.001	0.758
o-Xylene	0.251	(0.001)	0.235	(0.001)	0.181
Styrene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromoform	(0.002)	(0.003)	(0.003)	(0.003)	(0.001)
2-Hexanone	(0.005)	(0.006)	(0.006)	(0.006)	(0.001)
Cumene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2,2-Tetrachloroethane	(0.002)	(0.003)	(0.002)	(0.002)	(0.001)

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Triangle Laboratories, Inc.  
Project summary for Project 46297

Client ID:	T-V-1-3-B	T-V-1-4-B	VOSTBLK081	VOSTBLK081	VOSTBLK081
	TC	TC	798	898	998
Filename :	FX882	FX881	FX878	FX894	HW705
TLI Id :	214-1-88	214-I-98	VOSTBLK08179	VOSTBLK08189	VOSTBLKD8199
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug

Chloromethane	0.083	0.073	(0.001)	(0.001)	0.003
Vinyl Chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromomethane	0.109	0.045	(0.001)	(0.001)	(0.001)
Chloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichlorofluoromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methylene chloride	0.026	0.048	(0.001)	(0.001)	0.002
trans-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chloroform	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,1-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Iodomethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Carbon disulfide	0.006	(0.001)	(0.001)	(0.001)	(0.001)
Acetone	0.077	0.092	(0.004)	(0.006)	(0.004)
Allyl chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acrylonitrile	(0.016)	(0.016)	(0.016)	(0.021)	(0.006)
Vinyl acetate	(0.002)	(0.002)	(0.002)	(0.002)	(0.001)
2-Butanone	(0.004)	(0.004)	(0.004)	(0.005)	(0.003)
Carbon tetrachloride	(0.001)	(0.001)	(0.001)	(0.031)	(0.001)
Benzene	(0.001)	(0.001)	0.013	0.023	(0.001)
1,2-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dichloropropane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromodichloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Toluene	0.005	0.017	0.005	0.008	0.003
trans-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)
1,1,2-Trichloroethane	(0.002)	(0.002)	(0.001)	(0.002)	(0.001)
Methyl methacrylate	(0.006)	(0.006)	(0.006)	(0.007)	(0.002)
4-Methyl-2-pentanone	(0.005)	(0.005)	(0.004)	(0.006)	(0.001)
Tetrachloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Dibromochloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dibromoethane	(0.002)	(0.001)	(0.001)	(0.002)	(0.001)
Chlorobenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

( ) - Estimated Detection Limit      Page 3

Triangle Laboratories, Inc.  
Project Summary for Project 46297

Client ID:	T-V-1-3-B TC	T-V-1-4-B TC	VOSTBLK081 798	VOSTBLK081 898	VOSTBLK081 998
Filename :	FX882	FX881	FX878	FX894	HW705
TLI Id :	214-1-88	214-1-9B	VOSTBLK08179	VOSTBLK08189	VOSTBLK08199
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Ethylbenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
m-/p-Xylene	(0.001)	(0.001)	(0.001)	(0.001)	0.001
o-Xylene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Styrene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromoform	(0.003)	(0.002)	(0.003)	(0.004)	(0.001)
2-Hexanone	(0.006)	(0.006)	(0.006)	(0.008)	(0.002)
Cumene	(0.001)	(0.001)	(0.001)	(0.001)	0.001
1,1,2,2-Tetrachloroethane	(0.003)	(0.002)	(0.003)	(0.004)	(0.001)

Triangle Laboratories, Inc.  
Project Summary for Project 46297

Client ID:	T-V-1-1-A	T-V-1-1-B	T-V-1-2-A	T-V-1-2-B	T-V-1-3-A
	TC	TC	T	TC	T
Filename :	FX883	FX879	FX895	FX880	Hw713
TLI Id :	214-1-6A	214-1-68	214-1-7A	214-1-78	214-1-8A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
1,3-Butadiene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Vinyl bromide	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
MTBE	(0.001)	(0.001)	(0.001)	(0.001)	0.019
n-Hexane	0.127	0.001	0.147	0.001	0.111
1,2-Epoxybutane	(0.010)	(0.011)	(0.015)	(0.010)	(0.011)
Iso-Octane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Ethyl acrylate	(0.002)	(0.003)	(0.004)	(0.002)	(0.001)

Triangle Laboratories, Inc.  
Project **Summary** for Project **46297**

Client ID:	T-V-I-3-B	T-V-I-4-B	VOSTBLK081	VOSTBLK081	VOSTBLK081
	TC	TC	<b>798</b>	<b>898</b>	<b>998</b>
Filename :	FX882	<b>FX881</b>	FX878	FX894	<b>HW705</b>
TLI Id :	214-I-88	<b>214-1-9B</b>	VOSTBLK08179	VOSTBLK08189	VOSTBLK08199
Matrix :	VOST	VOST	VOST	<b>VOST</b>	VOST
Units :	<b>ug</b>	<b>ug</b>	<b>ug</b>	<b>ug</b>	<b>ug</b>
<b>1,3-Butadiene</b>	<b>(0.001)</b>	(0.001)	(0.001)	(0.001)	(0.001)
<b>Vinyl bromide</b>	(0.001)	<b>(0.001)</b>	(0.001)	<b>(0.001)</b>	(0.001)
MTBE	(0.001)	(0.001)	<b>(0.001)</b>	(0.001)	(0.001)
<b>n-Hexane</b>	<b>0.001</b>	<b>0.004</b>	(0.001)	<b>(0.001)</b>	<b>0.001</b>
<b>1,2-Epoxybutane</b>	(0.011)	(0.011)	(0.011)	<b>(0.020)</b>	<b>(0.017)</b>
<b>Iso-Octane</b>	(0.001)	<b>(0.001)</b>	(0.001)	<b>(0.001)</b>	(0.001)
<b>Ethyl acrylate</b>	<b>(0.003)</b>	<b>(0.003)</b>	<b>(0.002)</b>	<b>(0.004)</b>	<b>(0.001)</b>



FRANKLIN COUNTY

**TRIANGLE LABORATORIES, INC.**

**LIST OF CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

**American Association for Laboratory Accreditation.** Accreditation pending. Certificate Number 0226-01. Accreditation for technical competence in Environmental Testing. (Including Waste Water, Sol/Haz Waste, Pulp/Paper, and Air Matrices) Parameters are AOX/TOX, and Dioxin/Furan. Method 1613 for Drinking Water. **Currently re-applying.**

**State of Alabama, Department of Environmental Management.** Expires December 31, 1998. Laboratory I.D. # 40950. Dioxin in drinking water.

**State of Alaska, Department of Environmental Conservation.** Expires December 21, 1998. Certificate number OS-006-98. Dioxin in drinking water.

**State of Arizona, Department of Health Services.** Expires May 26, 1998. Certificate #AZ0423. Drinking Water for Dioxin, Dioxin in WW and S/H Waste. **Currently applying for renewal.**

**State of Arkansas, Department of Pollution Control and Ecology.** Expires February 19, 1999. Pulp/paper, soil, water, and Hazardous Waste for Dioxin/Furan; AOX/TOX, Volatiles, Semi-volatiles, and Metals.

**State of California, Department of Health Services.** Expires August 31, 1999. Certificate #1922. Selected Metals in Waste Water; Volatiles, Semi-volatiles, and Dioxin/furan in WW and Sol/Haz Waste. Dioxin in drinking water.

**State of Connecticut, Department of Health Services.** Expires September 30, 1999. Registration # PH-0117. Dioxin in drinking water.

**Delaware Health and Social Services.** Expires December 31, 1998. Certificate #NC 140. Dioxin in drinking water.

**Florida Department of Health and Rehabilitative Services.** Expires June 30, 1998. Dioxin in SDW. Drinking Water ID HRS# 87424. Pending new certificate.

**Hawaii Department of Health.** Expires March 1, 1999. Dioxin in drinking water. "Accepted" status for regulatory purposes.

**Idaho Department of Health and Welfare.** Expires December 31, 1998. Dioxin in drinking water.

**State of Kansas, Department of Health and Environment.** Expires January 31, 1999. Method 1613 for drinking water. ID #'s - Drinking water and/or pollution control - E-10215. Solid or Hazardous Waste - E-101209.

**Commonwealth of Kentucky, Department for Environmental Protection.** Expires December 31, 1998. ID#90060. Dioxin in drinking water.

**Maryland Department of Health and Mental Hygiene.** Expires September 30, 1998. Certification #235 Drinking water by Method 1613A. Currently applying for renewal.

**State of Michigan, Department of Public Health.** Expires June 30, 1999. Drinking water by Method 1613. Current certification is extended, based on New York certificate renewal.

**Mississippi State Department of Health.** No expiration date. Dioxin in drinking water.

**Montana Department of Health and Environmental Services.** Expires December 31, 1998. Dioxin in drinking water.

**State of New Jersey, Department of Environmental Protection and Energy.** Expires June 30, 1998. Extended until July 31, 1998 per letter dated May 29, 1998. ID #67851. BNAs and Volatiles. Dioxin in drinking water. Currently applying for renewal.

**State of New Mexico, Environment Department.** Still certified, awaiting information from A2LA Dioxin in drinking water.

**New York State Department of Health.** Received updated certificates. ID #11026. Environmental Analyses of potable water, non-potable Water, Solid and Hazardous Waste. Method 1613 in DW.

**State of North Carolina, Department of Environment Health and Natural Resources** Expires. August 31, 1998. Certificate # 37751. Dioxin in drinking water.

**State of North Carolina, Department of Environment, Health, and Natural Resources, Division of Environmental Management.** Expires December 31, 2000. Certificate # 485. Metals, pesticides & PCBs, semi-volatiles and volatiles; TCLP.

**North Dakota State Department of Health and Consolidated Laboratories.** Expires December 31, 1998. Certificate # R-076. Effective October 4, 1993. Dioxin in drinking water.

**Oklahoma Department of Environmental Quality.** Expires August 31, 1998. Laboratory #9612. Dioxin by 1613A, 8290 and 8280. Submitted renewal application 7/1.

**State of South Carolina, Department of Health and Environmental Control.** Expires June 30, 1998. Extended August 31, 1999. Certificate number #99040001 (drinking water). Expires August 31, 1999. Certificate number #99040002 (other parameters). Dioxin/Furans, BNA, Volatiles, and PCBs/pesticides under Clean Water Act, 2,3,7,8-TCDD for Drinking Water, and Organic extractables for Solid and Hazardous Waste.

**State of Tennessee. Department of Environment and Conservation.** Expires February 5, 1999. ID #02992. Method 1613 Drinking water only.

**U.S. Department of Agriculture Soil Permit.** Expires September 30, 2001. Permit No. S-3790. Under the authority of the Federal Plant Pest Act, permission is granted to receive foreign soil samples for use in laboratory analysis.

**U.S. Army Corps of Engineers.** Expires October 19, 1999. Validated to perform analyses for the Fort Belvoir, VA (Contract Number DACA31-97-D-0029), Vint Hill Farms Station, Vint Hill, VA (Contract Number DACA31-95-D-0083), and Selma Pressure Treating Superfund Site, Selma, CA (Contract number DACW45-94-D-0054).

**U.S. EPA Region V.** Expires November 14, 1999. Dioxin in drinking water.

**U.S. EPA Region VIII, for the State of Wyoming.** Expires November 12, 1998. Dioxin in drinking water.

**State of Utah, Department of Health.** Expires May 30, 2000. Certificate Number E-166. Certification for the following parameters: Semi-Volatiles and Volatiles under RCRA; Volatiles under Clean Water Act; Dioxin/furans by Method 8280; Drinking water for Dioxin by Method 1613; Metals including Mercury and Microwave Digestion.

**Commonwealth of Virginia, Department of General Services, Division of Consolidated Laboratory Services.** Expires June 30, 1999. ID # 00341. Dioxin in drinking water.

**State of Washington, Department of Ecology.** Expires September 11, 1998. Lab Accreditation Number C067. Scope of Accreditation applies to water analyses for

Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans, BNA Extr (Semivolatile) Organics and Purgeable (Volatile) Organics.

**State of Washington, Department of Health.** Expires April 30, 1999. Dioxin in drinking water. Lab I.D. 129.

**State of West Virginia, Department of Health.** Expires December 31, 1998. Certificate No. 9923(C). Dioxin in drinking water.

**State of Wisconsin, Department of Natural Resources.** Expires August 31, 1998. Laboratory ID Number 999869530. Certification for the following categories of Organics: Purgeable, Base/Neutral, Acid, PCBs, and Dioxin. Expires November 14, 1999. Laboratory ID 999869530. Dioxin in drinking water.

### PHARMACEUTICAL

**Drug Enforcement Agency (DEA).** Expires November 30, 1998. Registration number RT01195835. Controlled substance registration for schedules 1,2,3,3N,4,5.

**N.C. Department of Human Resources.** Expires October 31, 1998. Registration number NC-PT 0000 0031. North Carolina controlled substances registration. Application submitted for renewal.

**Food & Drug Administration (FDA) Registration.** Expires June 1998. ID #'s 001500 1053481. Annual registration of drug establishment.

### OTHER

**Clinical Laboratory Improvement Amendments (CLIA) Registration.** Expires May 30, 1999. ID # 34D0705123. Department of Health & Human Services, Health Care Financing Administration.

**U.S. EPA Large Quantity Hazardous Waste Generator.** No expiration date. EPA ID #NCD982156879. Permit indicates that the laboratory is a large generator of hazardous waste.

**North Carolina General License for Radiation Protection.** No expiration date. No License. 032-875-OG. The general license applies only to radioactive material contained in devices which have been manufactured and labeled in accordance with specific requirements.

**TRIANGLE LABS**

DOCUMENT  
CONTROL

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Triangle Laboratories, Inc.  
801 Capitola Drive  
Durham, NC 27713-4411  
919-544-5729

P.O. Box 13485  
Research Triangle Park, NC 27709-3485  
Fax # 919-544-5491



PACIFIC ENVIRONMENTAL SERVICES, INC.

Sample Chain of Custody Record

Central Park West  
 5001 South Miami Boulevard, P.O. Box 12077  
 Research Triangle Park, North Carolina 27709-2077  
 (919) 941-0333 FAX: (919) 941-0234

Sample Identification	Collection		Sample Name	Number of Containers	Vol. % of Spills or Solids	Analytical Request		Comments	
	Date	Time							
S-V-1-1-A	7/24/98		Silo 2 Run 1 Set1	1	X			Tenax	
S-V-1-1-B	7/24/98		Silo 2 Run 1 Set1	1	X			Tenax/Charcoal	
S-V-1-2-A	7/24/98		Silo 2 Run 1 Set2	1	X			Tenax	
S-V-1-2-B	7/24/98		Silo 2 Run 1 Set2	1	X			Tenax/Charcoal	
S-V-1-3-A	7/24/98		Silo 2 Run 1 Set3	1	X			Tenax	
S-V-1-3-B	7/24/98		Silo 2 Run 1 Set3	1	X			Tenax/Charcoal	
S-V-1-4-A	7/24/98		Silo 2 Run 1 Set4	1	X			Tenax	
S-V-1-4-B	7/24/98		Silo 2 Run 1 Set4	1	X			Tenax/Charcoal	
T-V-1-1-A	7/24/98		Tunnel Run 1 Set 1	1	X			Tenax	
T-V-1-1-B	7/24/98		Tunnel Run 1 Set 1	1	X			Tenax/Charcoal	
T-V-1-2-A	7/24/98		Tunnel Run 1 Set 2	1	X			Tenax	
T-V-1-2-B	7/24/98		Tunnel Run 1 Set 2	1	X			Tenax/Charcoal	
T-V-1-3-A	7/24/98		Tunnel Run 1 Set 3	1	X			Tenax	
T-V-1-3-B	7/24/98		Tunnel Run 1 Set 3	1	X			Tenax/Charcoal	
T-V-1-4-A	7/24/98		Tunnel Run 1 Set 4	1	X			Tenax	
T-V-1-4-B	7/24/98		Tunnel Run 1 Set 4	1	X			Tenax/Charcoal	
Relinquished by: <i>Neil A. Bennett</i>									
Date					7/24/98	Time		4:57	Received by:
Date					7/25/98	Time		10:10	Received for Lab by:
									<i>Greg Blum</i>

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Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

TRIANGLE LABORATORIES, INC. -- LOG IN RECORD/CHAIN OF CUSTODY  
 Sample Seals: Absent  
 Container: Intact

**COPY**  
07/25/98

TUI Project Number 46297  
 Client: PES03 - Pacific Environmental Services  
 Date Received 07/25/98  
 Carrier and Number Fedex/  
 By *[Signature]*  
 Page 1 of 1

TLI Number	Client Sample ID	Matrix	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init						
214-1-1A	S-V-1-1-A										
214-1-1B	S-V-1-1-B										
214-1-2A	S-V-1-2-A										
214-1-2B	S-V-1-2-B										
214-1-3A	S-V-1-3-A										
214-1-3B	S-V-1-3-B										
214-1-4A	S-V-1-4-A										
214-1-4B	S-V-1-4-B										
214-1-5A	S-V-1-3-A (Typed Label)										
214-1-5B	S-V-1-3-B (Typed Label)										
214-1-6A	T-V-1-1-A										
214-1-6B	T-V-1-1-B										
214-1-7A	T-V-1-2-A										
214-1-7B	T-V-1-2-B										

Receiving Remarks: 2 set of samples labelled S-V-1-3-A & S-V-1-3-B arrived. ID'S were hand printed on 1 set and Typed on the other.

Archive Remarks:

Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

Sample Seals: Absent  
 Container: Intact

TLI Project Number 46297  
 Client: PES03 - Pacific Environmental Services

Date Received 07/25/98 By *[Signature]* Page 1

Carrier and Number Fedex/

TLI Number	Client Sample ID	Matrix	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init															
214-1-0A	T-V-1-3-A	R03	TENAX																	
214-1-0B	T-V-1-3-B	R03	TENAX/CHAR																	
214-1-9A	T-V-1-4-A	R03	TENAX																	
214-1-9B	T-V-1-4-B	R03	TENAX/CHAR																	

Receiving Remarks: 2 set of samples labelled S-V-1-3-A & S-V-1-3-B arrived. ID'S were hand printed on 1 set and typed on the other.

Archive Remarks:

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
D6624	6252663	8260	V0A	V0A3	8260B	

Standards		Analyte	
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery		
VS9-92-3 exp. 8/22/98	VS9-92-2 exp. 8/20/98	Extract / Sample volume _____ µL mL	
		Signature <u>Henry E. Spence</u> Date <u>8/14</u>	

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/2/98	13:39	---	2nd VS9-92-3 exp 8/12/98	RFB	FX850	n/a	16 8/13/98		16	
8/13/98	00:01	---	2nd VS9-92-3 exp 8/12/98	RFB	FX851	n/a	16 8/13/98		16	
8/13/98	00:40	---	10nd VS9-93-1 exp 8/22/98	VOSTD01U T/TC	FX852	n/a	16 8/13/98		16	Scal pt.
8/13/98	1:25	---	10nd VS9-93-1 exp 8/22/98	VOSTD01U T/TC	FX853	n/a	16 8/13/98		16	Scal pt.
8/13/98	3:02	---	10nd VS9-93-2 exp 8/22/98	VOSTD02S T/TC	FX854	n/a	16 8/13/98		16	Scal pt.
8/13/98	3:50	---	10nd VS9-93-3 exp 8/22/98	VOSTD05U T/TC	FX855	n/a	16 8/13/98		16	Scal pt.
8/13/98	4:51	---	10nd VS9-93-1 exp 8/22/98	VOSTD00.75 T/TC	FX856	n/a	16 8/13/98		16	Scal pt.
8/13/98	5:34	---	10nd VS9-94-1 exp 8/12/98	VOSTD01.00 T/TC	FX857	n/a	16 8/13/98		16	Scal pt.
8/13/98		---	10nd VS9-92-2 exp 8/12/98	VOSTBLK T/TC	FX858	n/a	16 8/13/98		16	
8/13/98		---	10nd VS9-94-1 exp 8/22/98	VOSTD1.00 T/TC	FX859	n/a	16 8/13/98		16	

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
D6624	652663	8260	LoA	LoA3	82608	

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
V5-92-3	V59-92-2	
49.82458 @ 25ug/L	49.82458 @ 25ug/L	

Standards  
Extract / Sample volume \_\_\_\_\_ µL mL  
Signature: *Lorey C. Spawell* 8/12/98  
Date: 8/12/98

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Prog	Comments***
8/17/98	08:58	—	V5-92-3 49.82458	BFB	EX870	N/A	SL 8/11/98	1	SL	only 95/175-1000 displayed raised multiplex 8/12/98
8/17/98	09:48	—	V59-92-1 49.82458	BFB	EX871	N/A	SL 8/12/98	1	SL	OK scan # 483 8/12/98
8/17/98	10:23	—	V55-92-4 49.82458	VOSTD0.25 TITC	EX872	N/A	SL 8/11/98	1	SL	LIBRARY 2.3 OK PER D. HANSEN 8/17/98
8/17/98	11:24	—	V59-92-3 49.82458	VOSTD0.10 TITC	EX873	N/A	SL 8/12/98	1	SL	ICL points not used
8/17/98	12:07	—	V59-93-1 49.82458	VOSTD0.50 TITC	EX874	N/A	SL 8/12/98	1	SL	ICL points not used
8/17/98	13:33	—	V59-92-3 49.82458	VOSTBLK	EX875	N/A	MC 8/17/98	1	MC	heated during purge cycle
8/17/98	14:12	10.2 V59-90-2 49.82458	V59-90-2 49.82458	Additional VOSTD0.50	EX876	N/A	MC 8/17/98	1	MC	single pt
8/17/98	15:01	—	V59-94-3 49.82458	VOSTBLK TITC	EX877	N/A	SL 8/17/98	1	SL	
8/17/98	15:51	—	V59-94-3 49.82458	VOSTBLK TITC	EX878	N/A	MC 8/17/98	1	MC	
8/17/98	16:57	462977	214-1-68	T-V-1-1-B	EX879	N/A	YR 8/17/98	1	MC	

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	60250023	8260	NDA	NDA3	8260B	8260BX

Internal / Surrogate / Recovery		Internal / Surrogate / Recovery		Analyte	Extract / Sample volume _____	Circle unit µL mL
YS9-92-3 @ 25µg/ml	YS9-92-2 exp 8/22/98	YS9-92-3 @ 25µg/ml	YS9-92-2 exp 8/22/98			

Date**	Time**	Project	Sample#	Client ID	Filename	PH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	1730	46097	214-1-7B	TV-1-2-B	EX880	N/A	M817/98	6/8/98	YR	
8/19/98	1830	46097	214-1-9B	TV-1-4-B	EX881	N/A	M817/98		YR	
8/19/98	1917	46097	214-1-8B	TV-1-3-B	EX882	N/A	M817/98		YR	
8/19/98	1955	46097	214-1-6A	TV-1-1-A	EX883	N/A	M817/98		YR	
8/19/98	00:19	—	7604 US4-92-3 exp 8/18/98	UBLK	EX884	N/A	16 8/18/98		LC	
8/19/98	00:47	—	1604 US4-92-1 exp 8/18/98	UBLK	EX885	N/A	16 8/18/98		LC	
8/19/98	1:24	—	1004 US4-92-3 exp 8/18/98	UBLK	EX886	N/A	16 8/18/98		LC	
8/19/98	2:16	—	1004 US4-92-4 exp 8/18/98	BEFB	EX887	N/A	16 8/18/98		LC	
8/19/98	3:02	—	1004 US4-92-4 exp 8/18/98	NOSTD0.25 T1TC	EX888	N/A	16 8/18/98		LC	take lead 16 8/18/98
8/19/98	3:52	—	1004 US4-92-4 exp 8/18/98	NOSTD0.25 T1TC	EX889	N/A	16 8/18/98		LC	take lead 16 8/18/98

Signature \_\_\_\_\_ Date \_\_\_\_\_

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	8260	UOA	UOA3	8260B	

Internal / Surrogate / Recovery		Standards	
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
USA-42-3	USA-44-3		
exp spikes @ 25 ug/L	exp spikes @ 25 ug/L		

Extract / Sample volume \_\_\_\_\_ µL mL  
 Signature Lenny Gault Date 8/16/98

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/16/98	4:44	—	1001 USA-44-3	VOSTBLK T/TC	FX890	n/a	16 8/16/98	8/16/98	LC	
8/16/98	5:26	1001 USA-40-2 exp spikes	1001 USA-44-3	VOSTDOSO T/TC Additional	FX891	n/a	16 8/16/98		LC	
8/16/98	7:03	—	1001 USA-44-3 exp spikes	VOSTBLK T/TC	FX892	n/a	16 8/16/98		LC	
8/16/98	7:17	—	1001 USA-44-3 exp spikes	VOSTBLK T/TC	FX893	n/a	16 8/16/98		LC	
8/16/98	12:46	—	1001 USA-44-3 exp spikes	VOSTBLK T/TC	FX894	n/a	16 8/16/98		LC	Had to replace fitting and line on eye valve
8/16/98	14:17	46297	1001 USA-44-3 exp spikes	RT-V-1-2 A T	FX895	n/a	16 8/16/98	8/16/98	LC	Check and instrument up analysis started 8:15 outside of spec time 8/16/98
8/16/98	23:59	—	1001 USA-44-3 exp spikes	VBLK	FX896	n/a	16 8/16/98	1	LC	
8/16/98	1:15	—	1001 USA-44-1 exp spikes	USTD200	FX897	n/a	16 8/16/98		LC	
8/16/98	1:46	—	1001 USA-42-3 exp spikes	RFB	FX898	n/a	16 8/16/98		LC	
8/16/98	3:35	—	1001 USA-42-4 exp spikes	VOSTD025 T/TC	FX900	n/a	16 8/16/98		LC	Sensitivity low Low

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	3274056	8260	USA	V043	8260B	8266X

Standards

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
V55-92-3 app. 8/21/98 @ 25ug/ml	V55-92-2 app. 8/21/98 @ 25ug/ml	

Extract / Sample volume \_\_\_\_\_ µL \_\_\_\_\_ mL

Signature: *Barry C. Spindel* Date: *8/19/98*

Date**	Time**	Project	Sample #	Client ID	Filenam	pH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	01:57	—	2.00 V55-92-3 app. 8/21/98	BE-B	HW549	N/A	JL 8/19/98	16 slurk	JL	
8/19/98	02:26	—	V55-92-4 app. 8/22/98	VOSTD.10 TITC	HW550	N/A	JL 8/19/98		JL	
8/19/98	03:17	—	V55-92-4 app. 8/22/98	VOSTD.10 TITC	HW551	N/A	JL 8/19/98		JL	
8/19/98	03:52	—	V55-93-1 app. 8/21/98	VOSTD.0.25 TITC	HW552	N/A	JL 8/19/98		JL	
8/19/98	04:23	—	V55-93-2 app. 8/21/98	VOSTD.0.50 TITC	HW553	N/A	JL 8/19/98		JL	
8/19/98	04:55	—	V55-93-3 app. 8/21/98	VOSTD.0.75 TITC	HW554	N/A	JL 8/19/98		JL	
8/19/98	05:27	—	V55-94-1 app. 8/22/98	VOSTD.1.00 TITC	HW555	N/A	JL 8/19/98		JL	
8/19/98	06:01	—	V55-92-2 app. 8/18/98	Blank	HW556	N/A	JL 8/19/98		JL	
8/19/98	06:40	—	V55-90-2 app. 8/18/98	VOSTD.50 TITC	HW557	N/A	JL 8/19/98		JL	single pt.
8/19/98	07:49	—	V55-92-2 app. 8/22/98	VOSTBIR TITC	HW558	N/A	JL 8/19/98	16 slurk	JL	

• Volatile Data Only

• Transcribed Data

• Dated Signature/Initials Required

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DH624	3274050	8200	VOA	VOA3	F2608	

Standards		Analyte
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	
VS-92-2 exp. 8/24/98 @ 25ug/ml	VS-94-3 exp. 8/26/98 @ 25ug/ml	

Extract / Sample volume \_\_\_\_\_ µL \_\_\_\_\_ mL  
 Signature: *Larry C. Knappell* 8/17/98  
 Date

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/16/98	10:47	46415A	215-14-8A	Con1-MU030-TX-R2C	HW658	N/A	JL 8/17/98	BT	SL	moisture from T66
8/16/98	12:22	—	N/A VS-94-3 exp. 8/26/98	VOSTBLK TITC	HW659	N/A	JL 8/17/98	BT	SL	
8/16/98	13:45	46415A	215-14-5B	Con1-MU030-TXC-R2D	HW700	N/A	JL 8/18/98	BT	SL	Active analysis moisture from T66
8/16/98	14:25	46415A	215-15-5A	Con1-MU030-TX-R2D	HW701	N/A	JL 8/18/98	BT	SL	Active analysis moisture from T66
8/16/98	00:47	—	321-02-3 exp. 8/26/98	BFB	HW702	N/A	JL 8/19/98	BT	SL	
8/16/98	1:18	—	1001 VS-94-3 exp. 8/26/98	VOSTD0.25 TITC	HW703	N/A	JL 8/19/98	BT	SL	
8/16/98	1:57	—	1001 VS-94-3 exp. 8/26/98	VOSTBLK TITC	HW704	N/A	JL 8/19/98	BT	SL	
8/16/98	2:36	—	1001 VS-94-3 exp. 8/26/98	VOSTBLK TITC	HW705	N/A	JL 8/19/98	BT	SL	
8/16/98	3:58	46415A	215-14-2 exp. 8/26/98	LCS TITC	HW706	N/A	JL 8/19/98	BT	SL	
8/16/98		46415A	215-14-2 exp. 8/26/98	LCSN TITC	HW707	N/A	JL 8/19/98	BT	SL	old wet Agurice

• Volatile Data Only

\*\* Transcribed Data

\*\*\* Dated Signature/Initials Required

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
08624	3274056	8260	V04	V043	8260B	

Internal / Surrogate / Recovery		Internal / Surrogate / Recovery		Analyte
v24-a2-3	exp spikes @ 25ug/ml	v24-a1-3	exp spikes @ 25ug/ml	

Standards  
Extract / Sample volume \_\_\_\_\_ µl mL  
Signature Jimmy Cell Date 8/19/98

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	5:20	1004 v24-a1-2 exp spikes	1004 v24-a1-3 exp spikes	Additional 5 VOSTRO.S0 T/TIC	HW708	n/a	LG 8/19/98	LG	LG	
8/19/98	6:27	524-442 exp spikes	1004 v24-a1-3 exp spikes	LSD T/TIC	HW709	n/a	LG 8/19/98	LG	LG	
8/19/98	07:17	524-542 v24-a1-2 exp. v23/98	1004 v24-a1-3 exp. v23/98	LCSID T/TIC	HW710	n/a	AL 8/19/98	AL	AL	
8/19/98	08:14	—	1004 v24-a1-3 exp. v23/98	VOSTBK T/TIC	HW711	n/a	AL 8/19/98	AL	AL	
8/19/98	08:55	—	1004 v24-a1-3 exp. v23/98	VOSTBK T/TIC	HW712	n/a	AL 8/19/98	AL	AL	
8/19/98	10:06	46257	Q14-1-8A	T-V-1-3-A T	HW713	n/a	AL 8/19/98	AL	AL	
8/19/98	10:56	46257	214-1-9A	T-V-1-4-A T	HW714	n/a	AL 8/19/98	AL	AL	acquisition default no peaks for IS sample det + to instrument

SAMPLE  
DATA

**Pacific Environmental Services**

Project Number: 46297  
 Sample File: FX883

Method 8260 VOST  
 Sample ID: T-V-1-1-A T

Client Project: Hotmix  
 FLI ID: 214-1-6A

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.008	J	2.03		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.015	J	2.77		0.05
Acetone	0.137		2.82		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.303		3.26		0.05
Acrylonitrile		U		0.015	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.061		4.75		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.106	B	5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:46 08/24/1998

**Pacific Environmental Services**

Project Number: 46297

Sample File: FX883

Method 8260 VOST

Sample ID: T-V-1-1-A T

Client Project: Hotmix

TLI ID: 214-1-6A

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed: 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.005	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.360	B	8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.35		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.005	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.137		10.68		0.05
m-/p-Xylene	0.720		10.92		0.10
o-Xylene	0.251		11.63		0.05
Styrene		U		0.001	0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.73		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capicola Drive • Durham, North Carolina 27713

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Printed: 17:46 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX883

Method 8260 VOST  
Sample ID: T-V-1-1-A T

Client Project: Hotmix  
TLI ID: 214-1-6A

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.231	5.18	1	92
Toluene-d <sub>8</sub>	0.339	8.00	2	136
4-Bromofluorobenzene	0.404	12.65	2	162

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 17:46 08/24/1998

**Pacific Environmental Services**

Project Number: 46297

Sample File: FX883

Method 8260 VOST  
Sample ID: T-V-1-1-A TC

Client Project: Hotmix

TLI ID: 214-1-6A

Date Received: 07/25/98

Response File: ICALF817

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.127	J	3.88		0.25
1,2-Epoxybutane		U		0.010	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.002	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

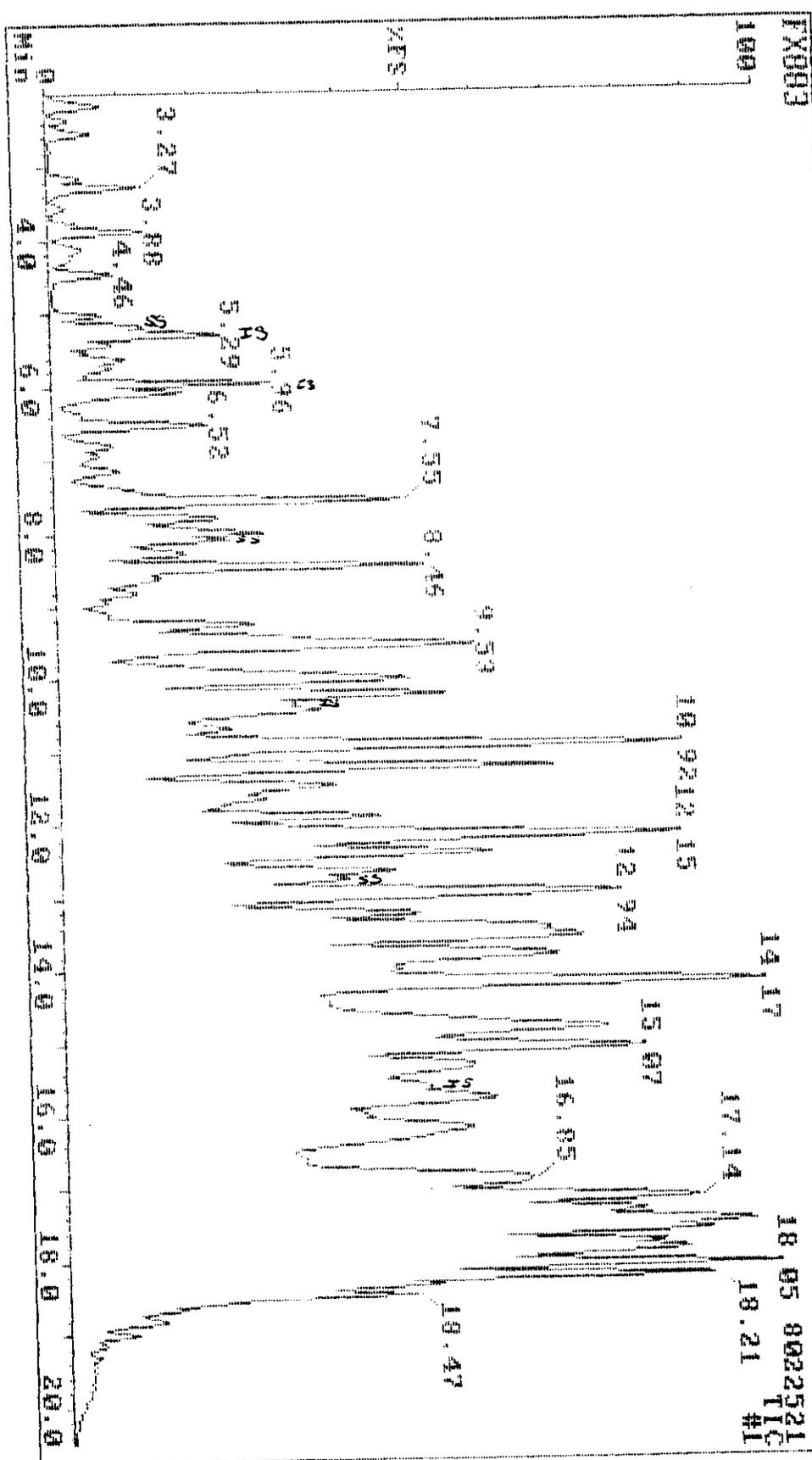
801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 18:00 08/24/1998

17-Aug-98 19:55 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-0-1-1-A T 214-1-6A TLM6297 Instrument F



Data Review: *MR*  
Date: 8/19/98

No.	MAT	FDR	REV	Delta	Area	P.Flags	RT	QM	Name
1	92	54	93	1	2755456	bb	5.301	163	Pentafluorobenzene
2	100	80	93	0	3023020	bv	6.071	114	1,4-Difluorobenzene
3	81	54	76	0	2569344	bv	10.351	117	Chlorobenzene-d5
4	57	15	77	2	1465753	bv	15.732	162	1,4-Dichlorobenzene-d4
5	93	50	99	0	1083278	bb	5.181	113	Dibromofluoromethane
6	95	68	87	1	4134235	bv	8.001	98	Toluene-d8
7	61	56	61	0	1659809	vv	12.651	95	4-Bromo fluorobenzene
8	0	0	0	0	0		0.000	85	Dichlorodifluoromethane
9	0	0	0	0	0		0.000	50	Chloromethane
10	0	0	0	0	0		0.000	62	Vinyl Chloride
11	0	0	0	0	0		0.000	24	Bromomethane
12	0	0	0	0	0		0.000	64	Chloroethane
13	73	40	85	-2	62552	Hb	2.030	101	Trichlorofluoromethane
14	0	0	0	0	0		0.000	96	1,1-Dichloroethane
15	0	0	0	0	0		0.000	142	Iodomethane
16	78	51	73	0	141760	bb	2.770	76	Carbon disulfide
17	85	47	92	-1	70390	A	2.830	43	Acetone
18	0	0	0	0	0		0.000	41	Methyl methacrylate
19	20	91	86	-1	<del>70907</del>	bv	<del>2.240</del>	44	<del>diethylamine-d10</del>
20	29	12	39	-4	<del>70907</del>	A	<del>2.240</del>	53	<del>acrylonitrile</del>
21	0	0	0	0	0		0.000	26	trans-1,2-Dichloroethane
22	0	0	0	0	0		0.000	65	1,1-Dichloroethane
23	0	0	0	0	0		0.000	45	Vinyl acetate
24	0	0	0	0	0		0.000	77	2,2-Dichloropropane
25	0	0	0	0	0		0.000	96	cis-1,2-Dichloroethane
26	59	44	53	2	33804	A	4.751	43	2-Butanone
27	0	0	0	0	0		0.000	43	Chloroform
28	0	0	0	0	0		0.000	128	Bromochloromethane
29	0	0	0	0	0		0.000	97	1,1,1-Trichloroethane
30	0	0	0	0	0		0.000	117	Carbon tetrachloride
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene
32	100	91	99	0	1253466	bv	5.521	78	Benzene
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane
34	0	0	0	0	0		0.000	130	Trichloroethene
35	0	0	0	0	0		0.000	63	1,2-Dichloropropane
36	0	0	0	0	0		0.000	93	Dibromomethane
37	47	45	56	-11	<del>1400114</del>	A	<del>4.801</del>	41	<del>Methyl methacrylate</del>
38	0	0	0	0	0		0.000	85	Bromodichloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	34	15	47	5	<del>718320</del>	A	<del>8.011</del>	43	<del>4-methyl-2-pentanone</del>
41	100	87	98	0	3128788	vv	8.091	92	Toluene
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane
44	0	0	0	0	0		0.000	69	Ethyl methacrylate
45	0	0	0	0	0		0.000	164	Tetrachloroethane
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane
47	42	24	64	-10	<del>2213356</del>	vv	<del>7.251</del>	43	<del>2-Hexanone</del>
48	0	0	0	0	0		0.000	129	Dibromochloromethane
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane
50	0	0	0	0	0		0.000	112	Chlorobenzene

Handwritten notes:   
 70907   
 3.262   
 m8/19/98   
 (circled 'X')   
 TP

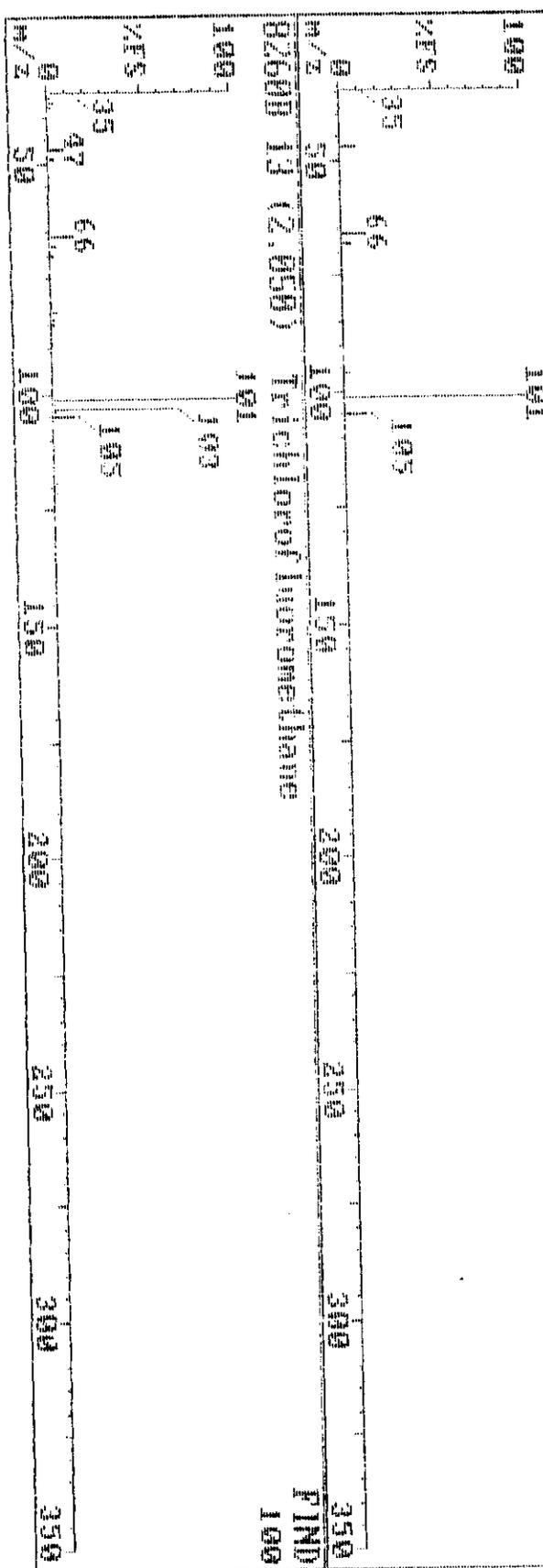
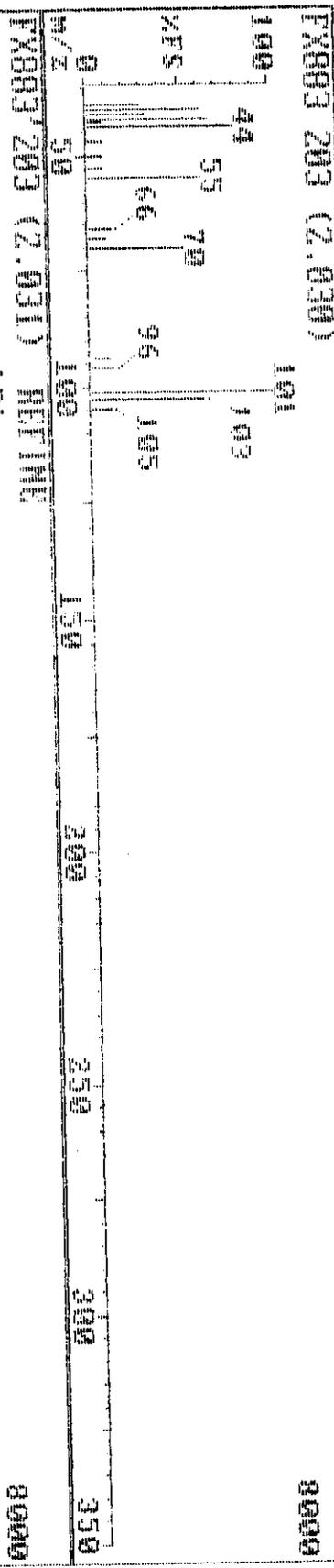
Data Review: *ML*  
 Date: 8/19/98

No.	MAT	FOR	REV	DEL	LA	Area	P	Flags	RT	QM	Name
51	0	0	0	0	0	0			0.000	131	1,1,1,2-Tetrachloroethane
52	87	55	86	0	86.1070	bv			10.681	106	Ethylbenzene
53	97	66	89	0	556.5136	vv			10.921	106	m-/p-Xylene
54	92	61	89	0	16.19648	bv			11.651	106	o-Xylene
55	0	0	0	0	0				0.000	104	Styrene
56	0	0	0	0	0				0.000	173	Bromoform
57	0	0	0	0	0				0.000	105	Cumene
58	0	0	0	0	0				0.000	85	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0				0.000	156	Bromobenzene
60	0	0	0	0	0				0.000	75	1,3,3-Trichloropropane
61	0	0	0	0	0				0.000	120	n-Propylbenzene
62	0	0	0	0	0				0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0				0.000	126	2-Chlorotoluene
64	0	0	0	0	0				0.000	126	4-Chlorotoluene
65	40	46	92	-24	9975965	vv			13.571	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0				0.000	119	tert-butylbenzene
67	90	51	93	0	10394200	vv			14.302	105	1,2,4-Trimethylbenzene
68	0	0	0	0	0				0.000	105	sec-butylbenzene
69	0	0	0	0	0				0.000	119	polymer
70	0	0	0	0	0				0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0				0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0				0.000	91	Benzyl chloride
73	0	0	0	0	0				0.000	91	n-Butylbenzene
74	0	0	0	0	0				0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0				0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0	0				0.000	180	1,2,4-Trichlorobenzene
77	0	0	0	0	0				0.000	225	Hexachlorobutadiene
78	0	0	0	0	0				0.000	128	Naphthalene
79	0	0	0	0	0				0.000	180	1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.L.Flags	RT	QM	Name	
1	92	54	93	1	2785456	bb	5.301	168	Pentafluorobenzene	
2	100	80	93	0	3023020	bv	6.071	114	1,4-Difluorobenzene	
3	81	54	76	-1	2569544	bv	10.351	117	Chlorobenzene-d5	
4	58	15	77	0	1463755	bv	15.732	152	1,4-Dichlorobenzene-d4	
5	93	50	99	0	1083228	bb	5.181	113	Dibromofluoromethane	
6	97	68	87	0	4184235	bv	8.001	98	Toluene-d8	
7	59	36	61	-1	1659809	vv	12.751	95	4-Bromofluorobenzene	
8	65	41	72	5	<del>51285</del>	<del>bb</del>	<del>1.270</del>	<del>FP</del>	<del>39</del>	<del>1,3-Butadiene</del>
9	0	0	0	0	0		0.000		106	Vinyl bromide
10	68	50	59	0	<del>1206</del>	<del>A</del>	<del>3.500</del>	<del>FP</del>	<del>73</del>	<del>MTBE</del>
11	100	95	99	0	1917848	bv	5.880	57	n-Hexane	
12	54	40	57	7	<del>251279</del>	<del>bv</del>	<del>4.400</del>	<del>FP</del>	<del>42</del>	<del>1,2-Epoxybutane</del>
13	61	43	54	0	<del>357412</del>	<del>A</del>	<del>3.791</del>	<del>FP</del>	<del>57</del>	<del>Is-Octane</del>
14	43	28	70	-13	<del>275235</del>	<del>bb</del>	<del>4.001</del>	<del>FP</del>	<del>35</del>	<del>Ethyl acrylate</del>

M 8/19/98

17-Aug-98 19:55 Triumbe Laboratories, Inc. (919) 544-5729 Instrument F  
 Sample: 1-U-1-1-1 T 214-1-60 TM46237



17-Aug-98 19:55

Triangie Laboratories, Inc. (919) 544-5729

Sample: T-U-1-1-0 T 214-1-60 T1146297

Instrument P

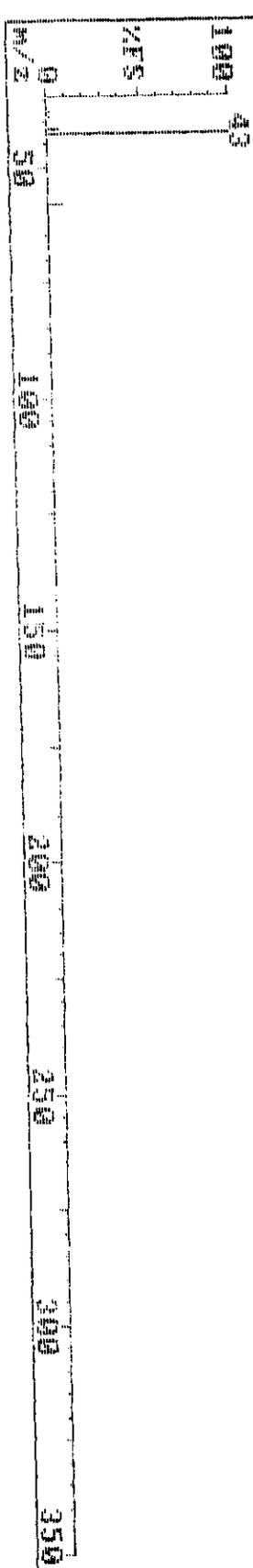
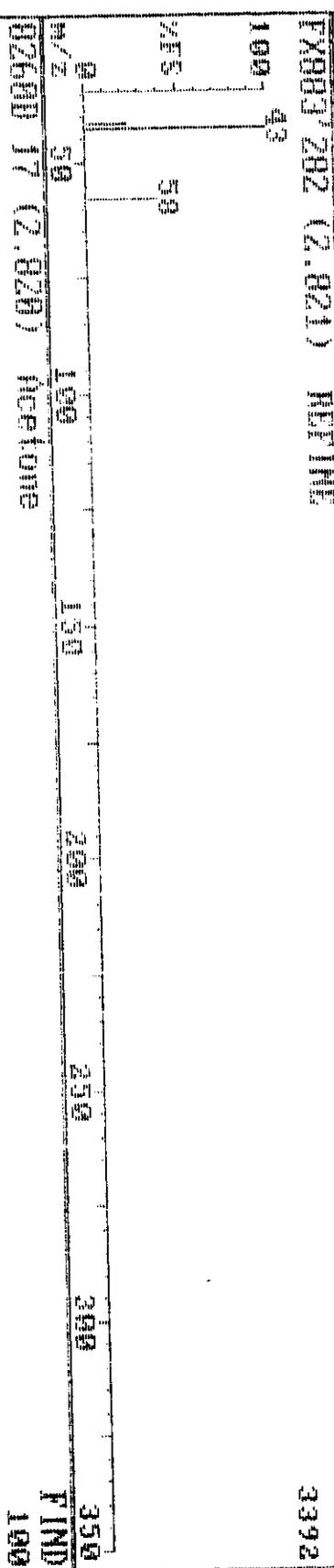
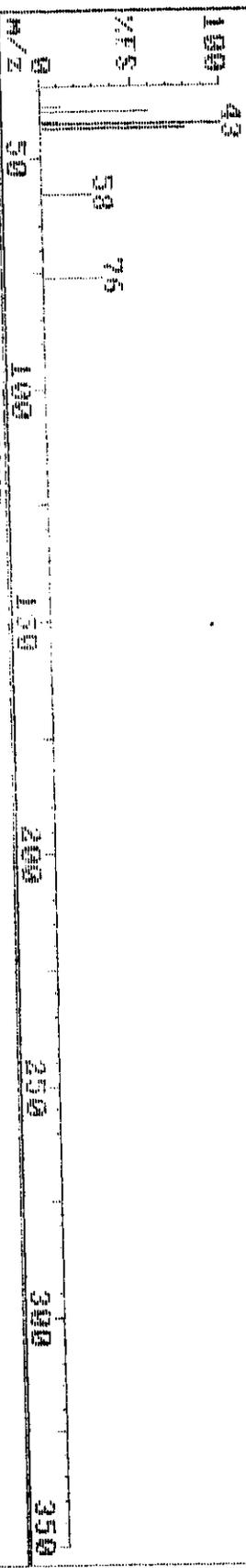
EX083 277 (2.770)



17-Aug-98 19:55 Triangle Laboratories, Inc. (919) 544-5729 Instrument F

Sample: 1-U-1-1-A 1 214-1-00 11/14/97

FX003 282 (2.820) 6080



17-Aug-98 19:55

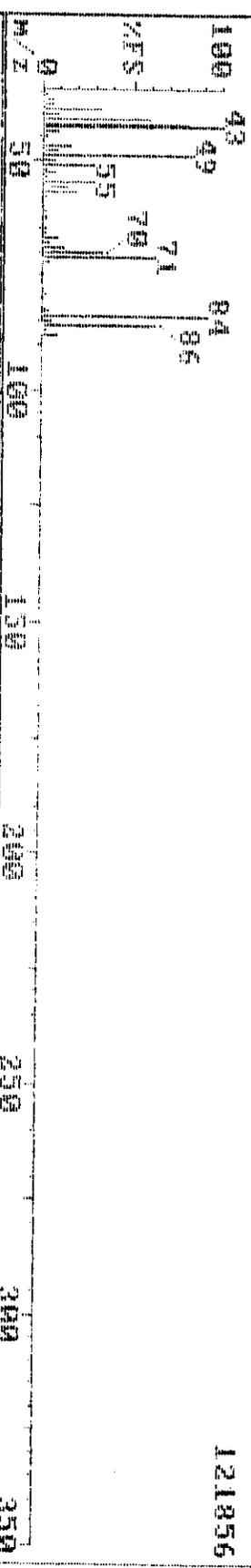
Triangulo Laboratories, Inc. (919) 544-5729

Sample: T-U-1-1-A T 214-1-60 MH4297

Instrument F

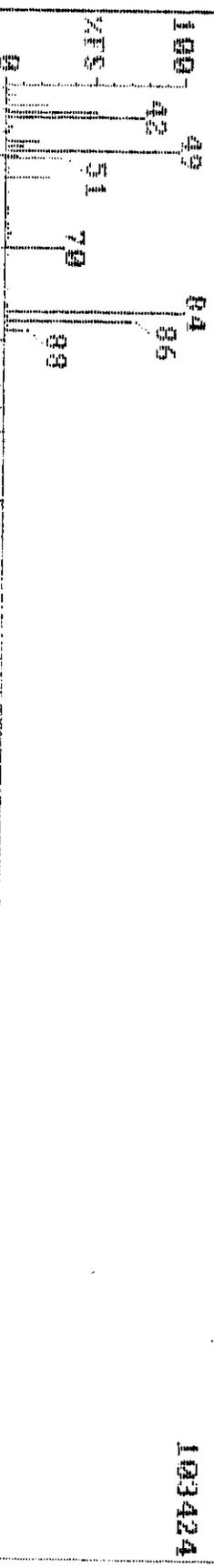
FM09 326 (3.260)

121856



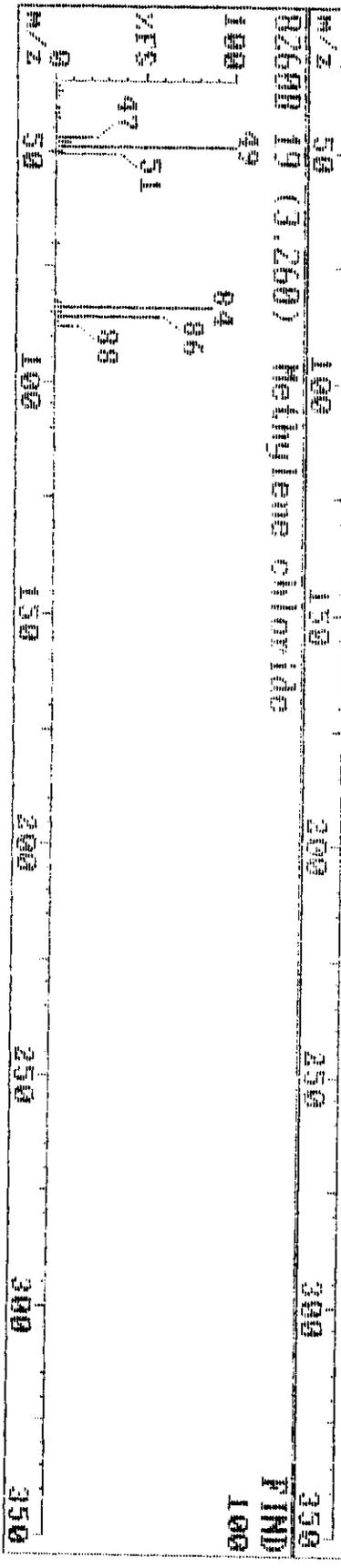
FM09 326 (3.261) REFINE

103424

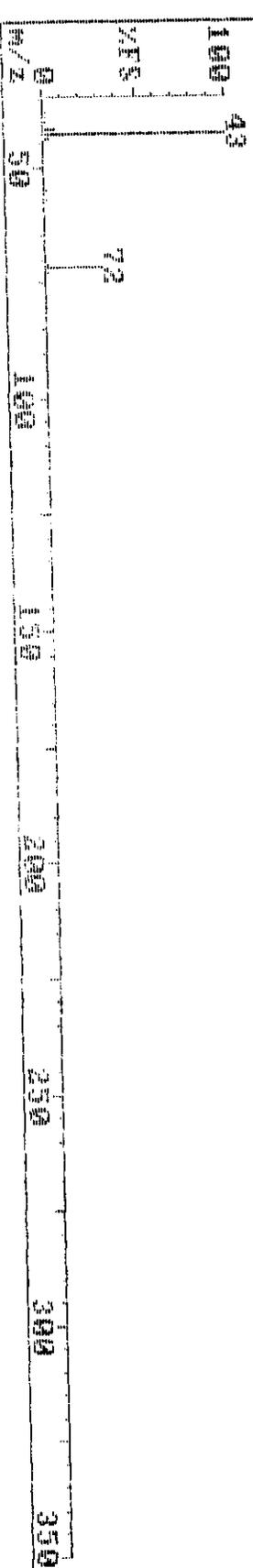
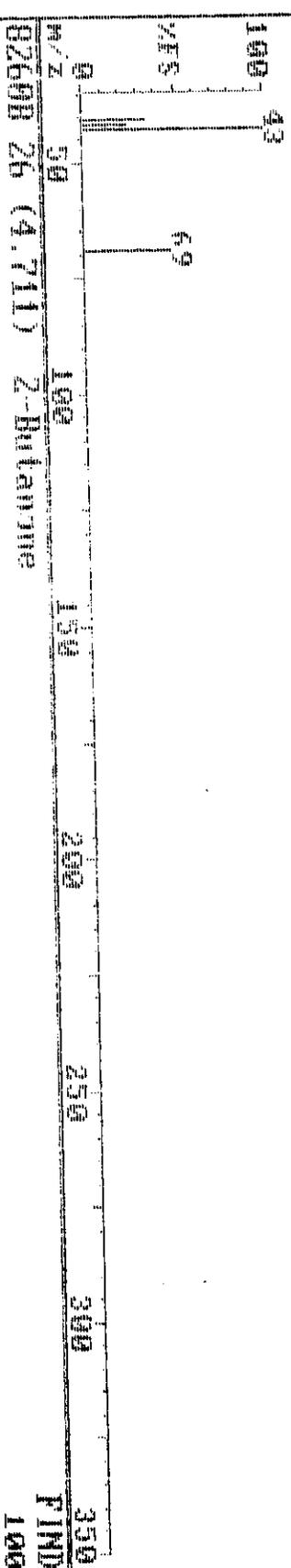
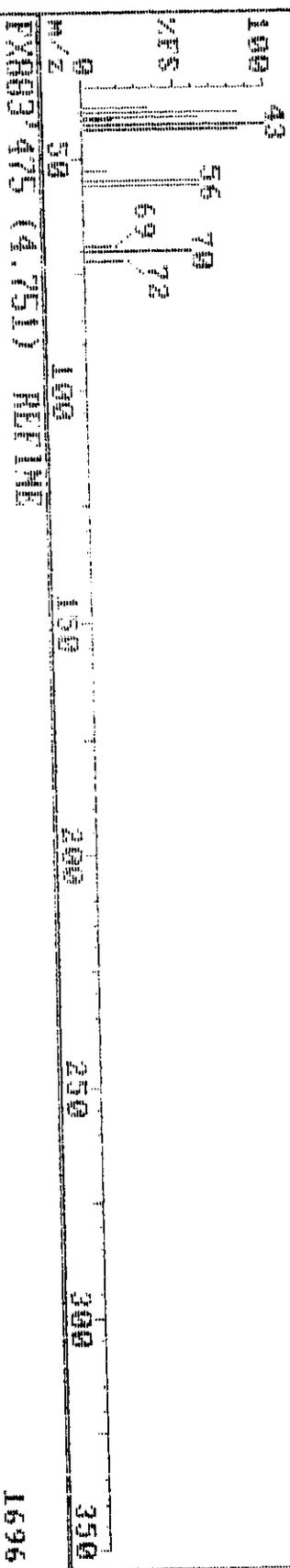


02600 19 (3.260) Methylene chloride

FOUND 100



17-Aug-98 19:55 Triangle Laboratories, Inc. (919) 544-5729 Instrument F  
 Sample: T-U-1-1-A T 214-1-0 T114627  
 FX093 475 (4.751) 4352



17-Aug-90 19:55

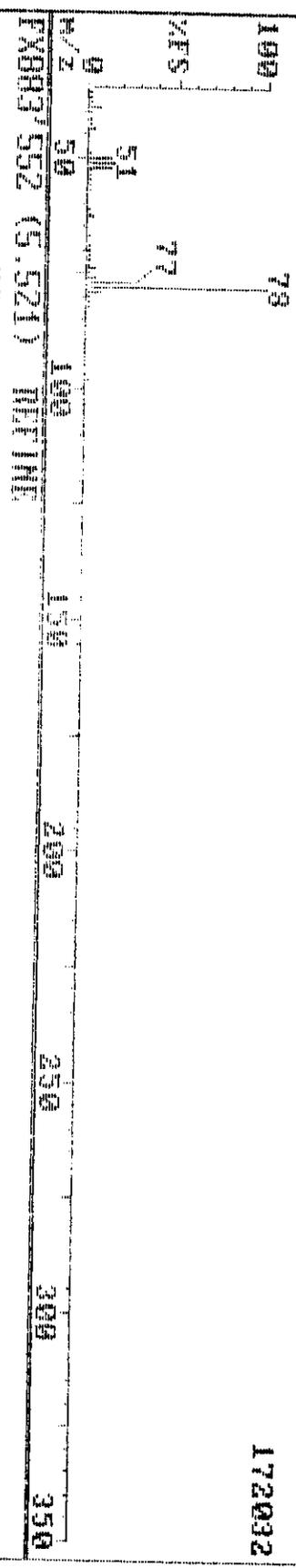
Triunfo Laboratories, Inc. (919) 544-5729

Sample: T-U-1-A 1 214-1-A TIM46797

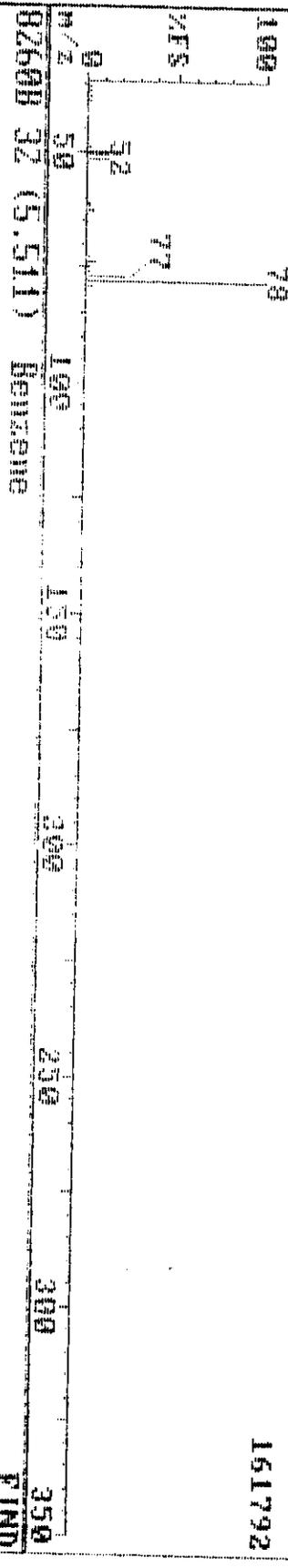
Instrument F

FY803 552 (5.521)

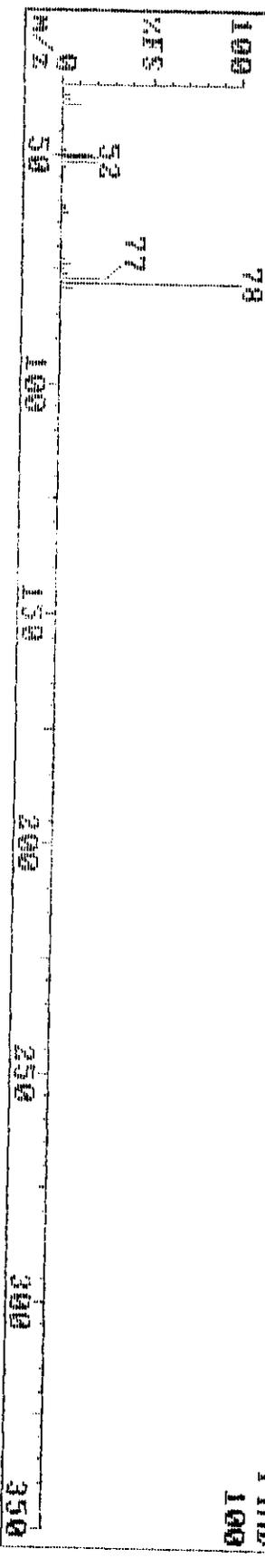
172032



161792



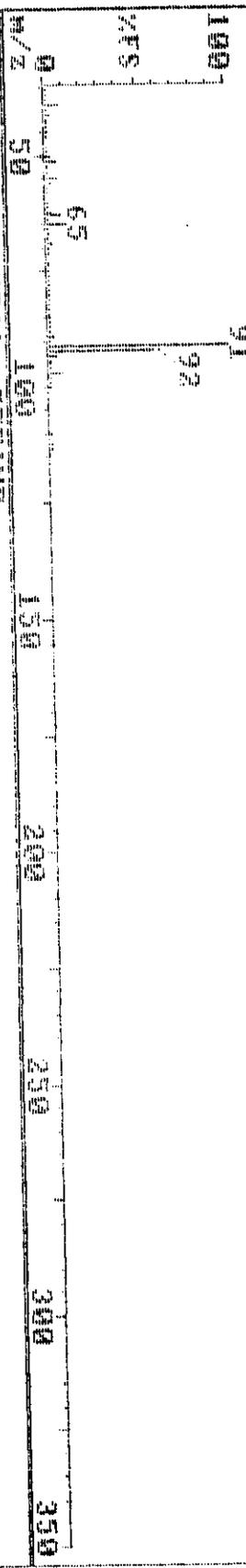
FIND 100



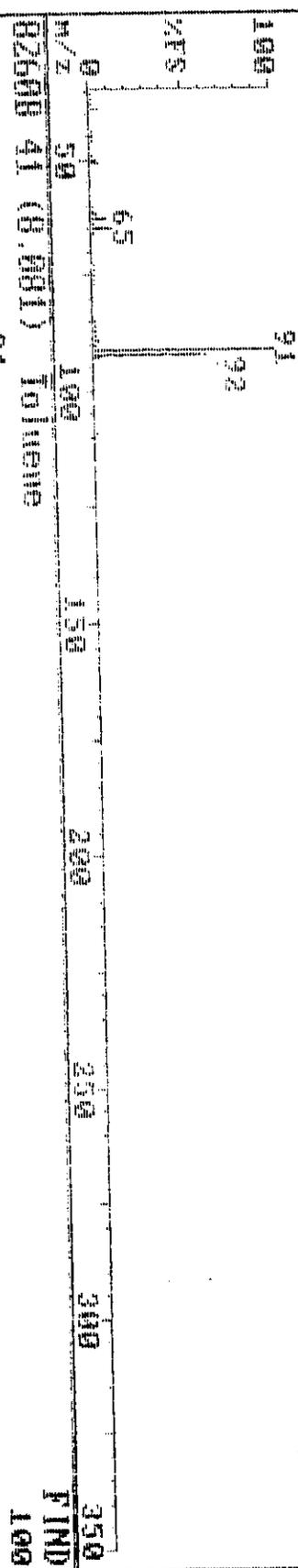
17-Aug-98 19:55 Triango Laboratories, Inc. (919) 544-5729 Instrument F

Sample: T-0-1-1-A T 214-1-6A T144297

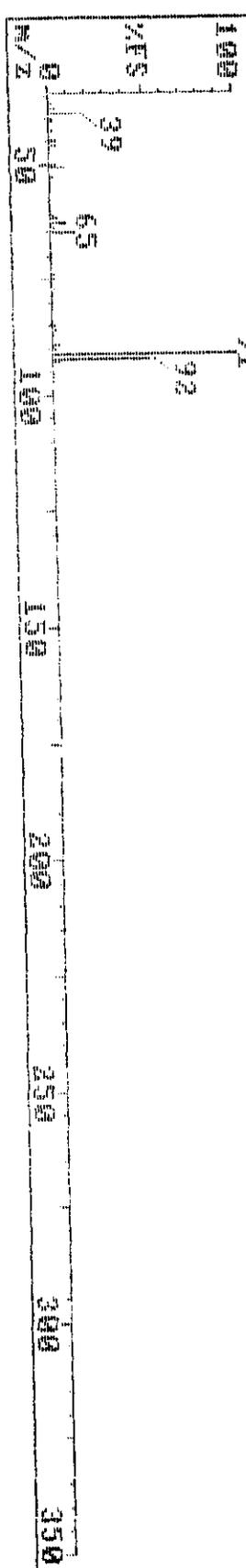
EX003 009 (0.091) 6922224



630784



FIND 100



17-Aug-98 19:55

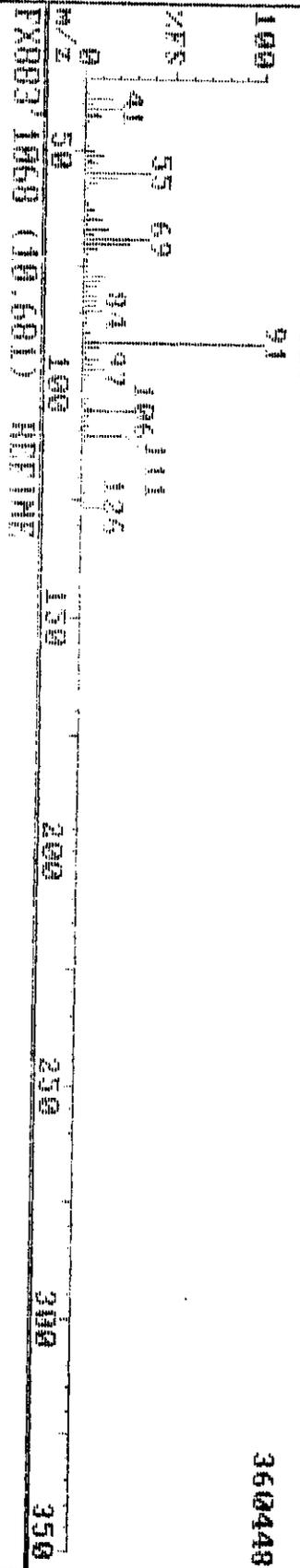
Triunfo Laboratories, Inc. (919) 544-5729

Sample: T-V-1-1-A T 244-1-64 TL144297

Instrument: F

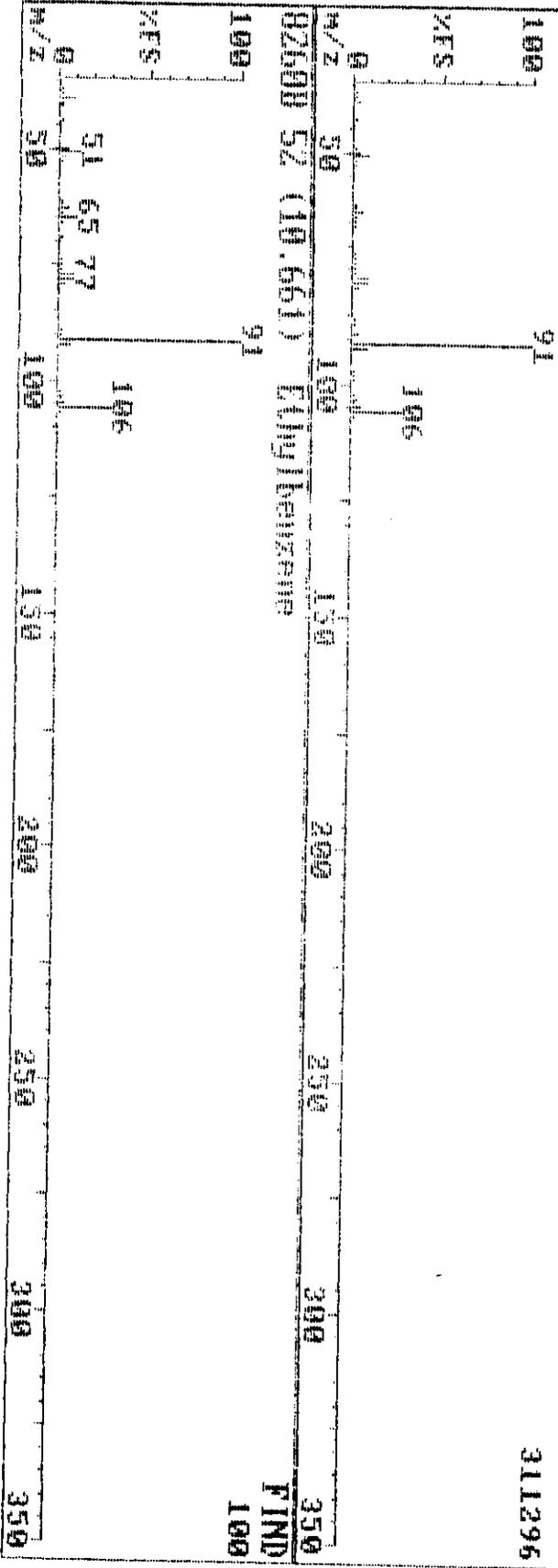
FX803 1660 (10.601)

360448



FX803 1660 (10.601) NDFINE

311295



02100 52 (10.661) Ethylbenzene

FIND

100

17-Aug-98 19:55

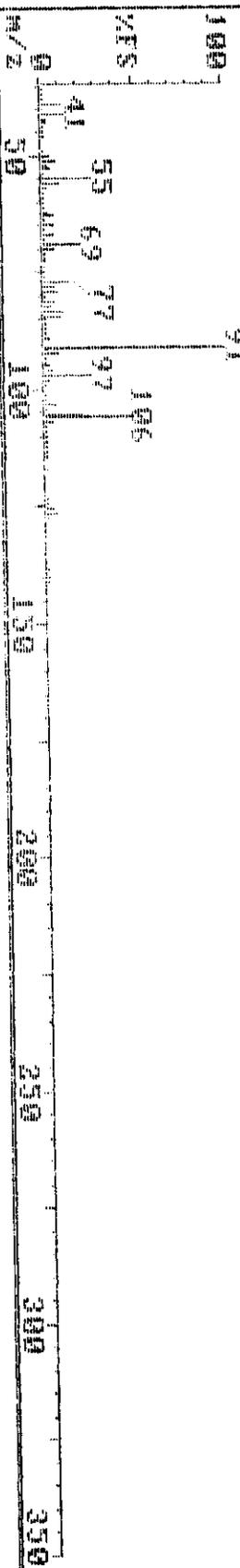
Triang Laboratories, Inc. (919) 544-5729

Sample: T-U-1-1-A 1 214-1-00 T1146297

Instrument F

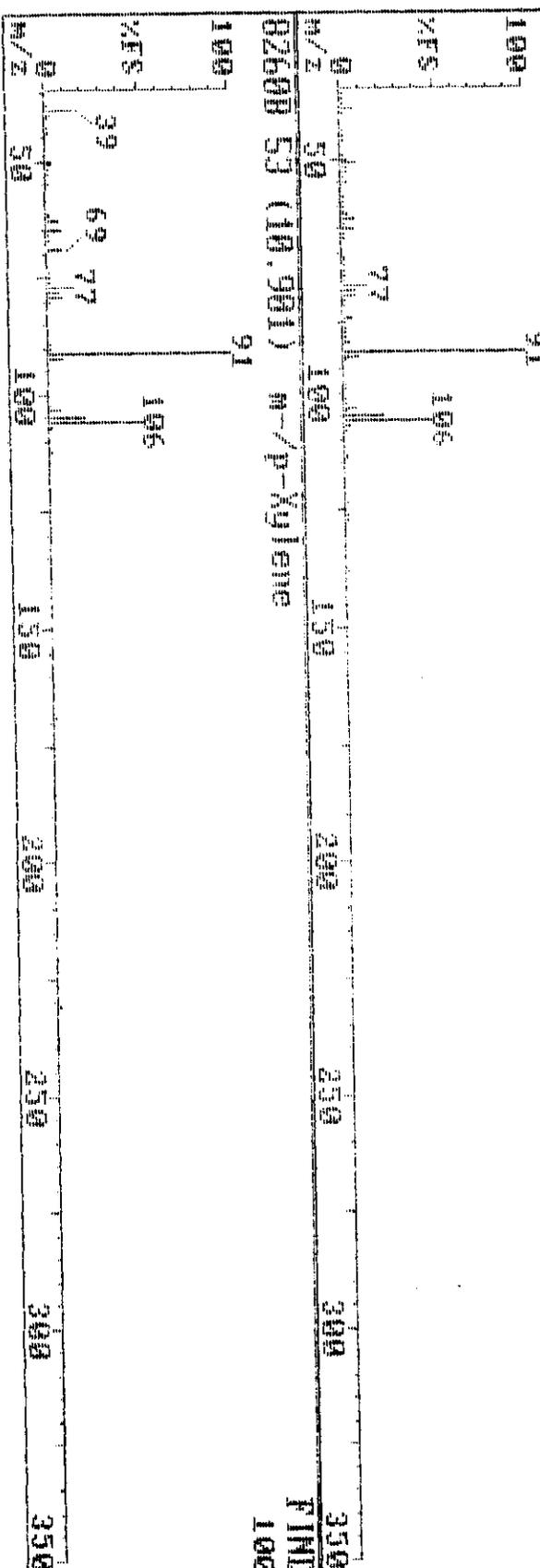
PX083 1092 (10.921)

1458176



PX083 1092 (10.921) REF: 1146297

1277952



02600 53 (10.981) m-p-Xylene

FIND 100

17-Aug-98 19:55

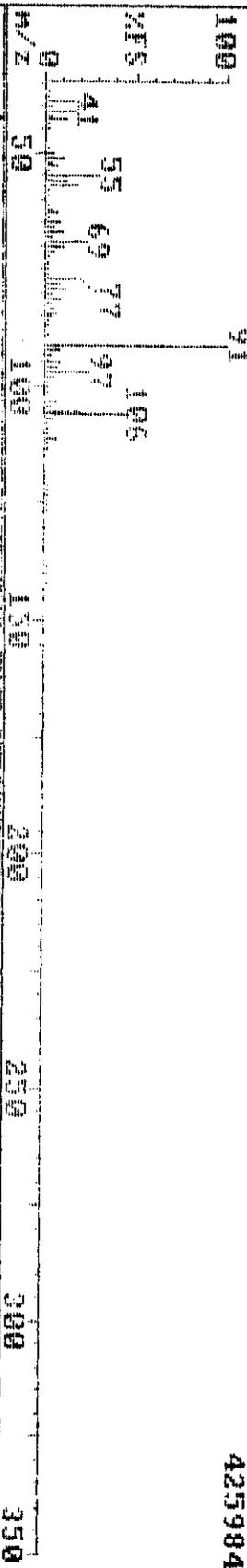
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-4-1-1-A T 214-1-6A BU146297

Instrument F

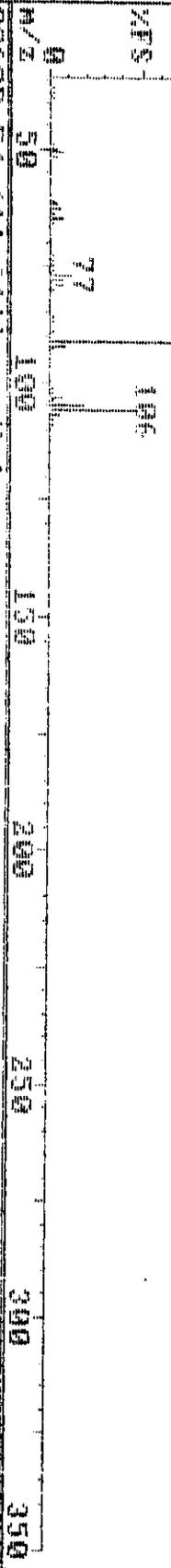
PX803 163 (11.631)

425984



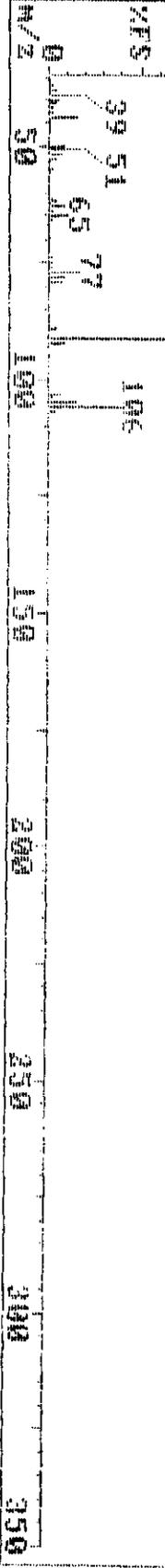
PX803 163 (11.631) REFERENCE

364544



BZ600 54 (11.611) O-xylene

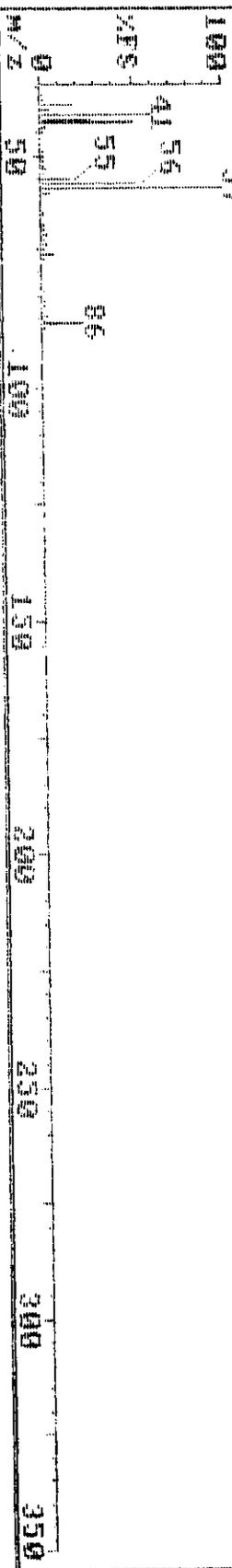
FTND 100



17-Aug-90 10:55 Triangle Laboratories, Inc. (919) 544-5729 Instrument F

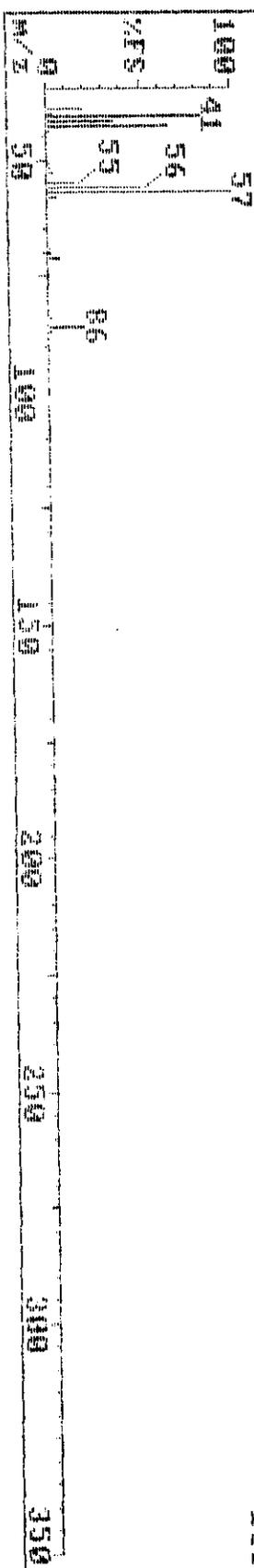
Sample: 1-U-1-1-A 1 24-1-60 1144297

FX003 300 (3.000) 266240



249856

FX003 300 (3.001) n-Hexane



FIND 100

**Pacific Environmental Services**

**Project Number: 46297**

**Sample File: FX879**

**Method 8260 VOST  
Sample ID: T-V-1-1-B TC**

**Client Project: Hotmix  
TLI ID: 214-1-6B**

**Date Received: 07/25/98**

**Response File: ICALF814**

**Date Analyzed : 08/17/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane	0.075		1.08		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.056		1.65		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.153		3.27		0.05
Acrylonitrile		U		0.016	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		0.05
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
 Sample File: FX879

Method 8260 VOST  
 Sample ID: T-V-1-1-B TC

Client Project: Hotmix  
 TLI ID: 214-1-6B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.020	BJ	8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.002	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	10.35		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.71		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.003	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46297  
Sample File: FX879

Method 8260 VOST  
Sample ID: T-V-1-1-B TC

Client Project: Hotmix  
TLI ID: 214-1-6B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed: 08/17/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.249	5.18	1	100
Toluene-d <sub>8</sub>	0.305	8.00	2	122
4-Bromofluorobenzene	0.282	12.65	2	113

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX879

Method 8260 VOST  
Sample ID: T-V-1-1-B TC

Client Project: Hotmix  
TLI ID: 214-1-6B

Date Received: 07/25/98  
Date Analyzed : 08/17/98

Response File: ICALF817

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.001	J	3.90		0.25
1,2-Epoxybutane		U		0.011	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.003	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Savar v3.7  
Printed: 18:00 08/24/1998

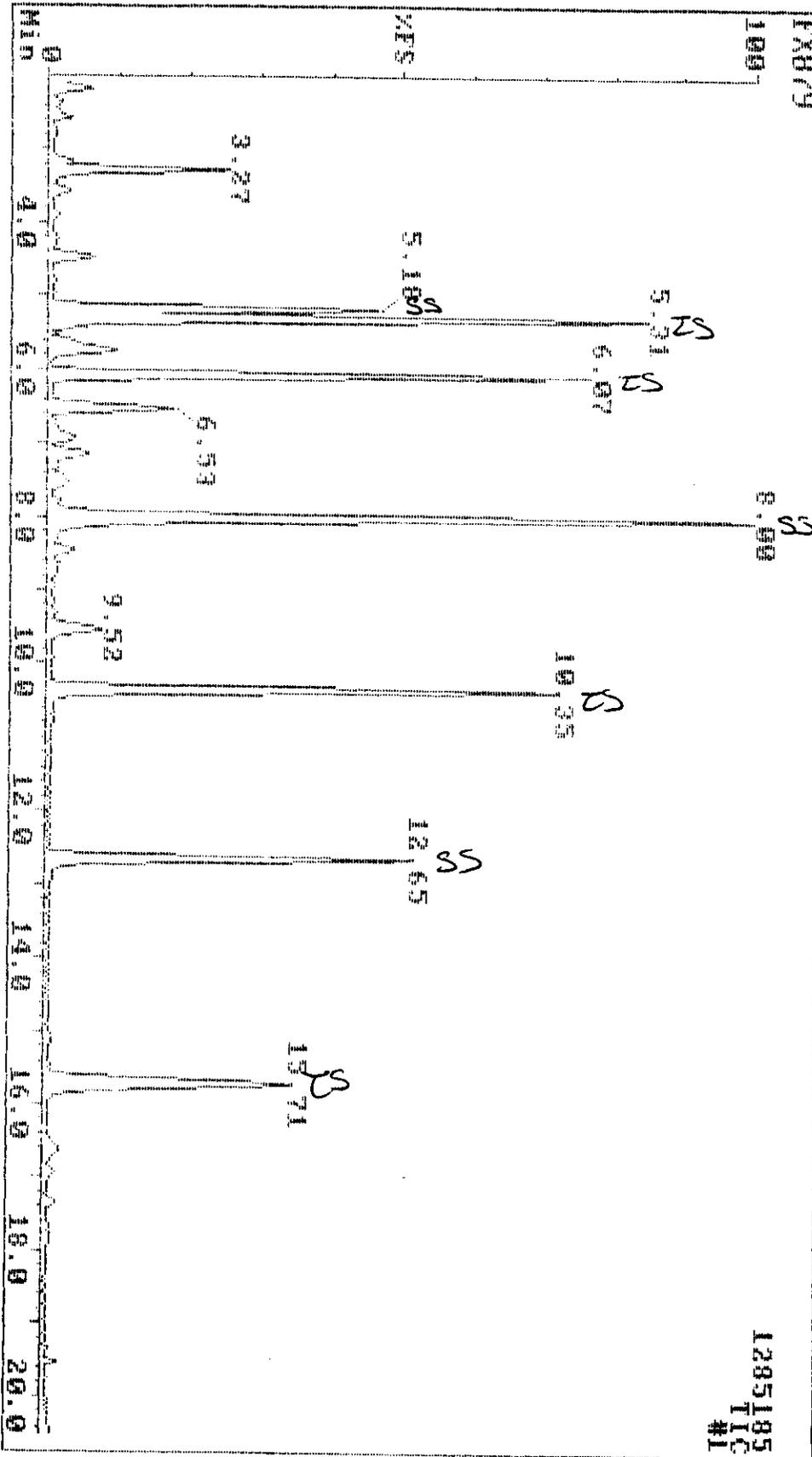
17-Aug-98 16:47

Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-V-1-1-B IC 214-1-50 T1146297

Instrument F



1285185  
TIC  
#1

Data Review: *M*  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name	
1	100	78	99	1	2574448	bb	5.501	163	Pentafluorobenzene	
2	100	97	99	0	2726140	bv	6.071	114	1,4-Difluorobenzene	
3	100	95	95	0	2355716	bv	10.551	117	Chlorobenzene-d5	
4	100	76	100	0	860176	bv	15.712	150	1,4-Dichlorobenzene-d4	
5	100	84	99	0	1077964	bv	5.183	115	Dibromofluoromethane	
6	100	91	97	1	3394004	bv	3.001	98	Toluene-d8	
7	100	91	93	0	1044408	bv	12.651	95	4-Bromofluorobenzene	
8	0	0	0	0	0		0.000	88	Dichlorodifluoromethane	
9	97	77	82	1	263316	A	1.080	50	Chloromethane	
10	0	0	0	0	0		0.000	62	Vinyl Chloride	
11	86	62	86	3	101590	bv	1.650	94	Bromomethane	
12	0	0	0	0	0		0.000	64	Chloroethane	
13	0	0	0	0	0		0.000	101	Trichlorofluoromethane	
14	0	0	0	0	0		0.000	96	1,1-Dichloroethane	
15	0	0	0	0	0		0.000	142	Iodomethane	
16	0	0	0	0	0		0.000	79	Carbon Chloride	
17	59	12	85	2	<del>12400</del>	<del>A</del>	<del>2.525</del>	<del>FP</del>	43	Acetone
18	0	0	0	0	0		0.000	41	Allyl Chloride	
19	100	76	82	0	572588	bv	3.270	54	Methylene Chloride	
20	7	7	7	-7	<del>1597</del>	<del>A</del>	<del>7.574</del>	<del>FP</del>	55	Acrylonitrile
21	0	0	0	0	0		0.000	26	trans-1,2-Dichloroethene	
22	0	0	0	0	0		0.000	61	1,1-Dichloroethane	
23	0	0	0	0	0		0.000	45	Vinyl acetate	
24	0	0	0	0	0		0.000	71	2,2-Dichloropropane	
25	0	0	0	0	0		0.000	28	cis-1,2-Dichloroethene	
26	21	13	13	4	<del>4472</del>	<del>A</del>	<del>4.771</del>	<del>FP</del>	13	2-Butanone
27	0	0	0	0	0		0.000	25	Chloroform	
28	0	0	0	0	0		0.000	128	Bromochloromethane	
29	0	0	0	0	0		0.000	97	1,1,1-Trichloroethane	
30	0	0	0	0	0		0.000	117	Carbon Tetrachloride	
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene	
32	0	0	0	0	0		0.000	78	Benzene	
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane	
34	0	0	0	0	0		0.000	130	Trichloroethene	
35	0	0	0	0	0		0.000	65	1,2-Dichloropropane	
36	0	0	0	0	0		0.000	23	Dibromomethane	
37	0	0	0	0	0		0.000	41	Methyl methacrylate	
38	0	0	0	0	0		0.000	85	Bromodichloromethane	
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene	
40	36	4	61	5	<del>21340</del>	<del>bv</del>	<del>3.911</del>	<del>FP</del>	43	4-Methyl-2-pentanone
41	100	74	92	0	158852	bb	8.091	92	Toluene	
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene	
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane	
44	0	0	0	0	0		0.000	69	Ethyl methacrylate	
45	0	0	0	0	0		0.000	164	Tetrachloroethene	
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane	
47	0	0	0	0	0		0.000	43	2-Hexanone	
48	0	0	0	0	0		0.000	129	Dibromochloromethane	
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane	
50	0	0	0	0	0		0.000	112	Chlorobenzene	

Data Review: JM  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	L31	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.000	106	Ethylbenzene
53	0	0	0	0	0		0.000	106	m/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoform
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	33	1,1,1,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.000	120	n-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0		0.000	126	2-Chlorotoluene
64	0	0	0	0	0		0.000	126	4-Chlorotoluene
65	0	0	0	0	0		0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	119	tert-Butylbenzene
67	0	0	0	0	0		0.000	105	1,3,4-Trimethylbenzene
68	0	0	0	0	0		0.000	105	sec-Butylbenzene
69	0	0	0	0	0		0.000	119	p-Cymene
70	0	0	0	0	0		0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	91	Benzyl chloride
73	0	0	0	0	0		0.000	91	n-Butylbenzene
74	0	0	0	0	0		0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0	0		0.000	180	1,2,4-Trichlorobenzene
77	78	50	87	-4	18948	bb	19.522	205	Hexachlorobutadiene
78	0	0	0	0	0		0.000	128	Naphthalene
79	0	0	0	0	0		0.000	180	1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	78	99	1	2574448	bb	5.301	168	Pentafluorobenzene
2	100	97	99	0	2726140	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	-1	2355716	bv	10.351	117	Chlorobenzene-d5
4	100	76	100	-2	860176	bv	15.712	152	1,4-Dichlorobenzene-d4
5	100	84	99	0	1077964	bv	5.131	113	Dibromofluoromethane
6	100	91	97	0	3394004	bv	8.001	98	Toluene-d8
7	100	91	93	-1	1044408	bv	12.651	95	4-Bromofluorobenzene
8	57	33	66	5	<del>26612</del>	<del>vv</del>	<del>1.370</del>	FP	32 1,3-Butadiene
9	0	0	0	0	0		0.000		106 Vinyl bromide
10	57	40	55	4	<del>8612</del>	<del>a</del>	<del>3.650</del>	FP	73 MTBE
11	69	37	59	2	17896	bb	7.900		57 n-Hexane
12	55	48	62	13	<del>23100</del>	<del>a</del>	<del>4.170</del>	FP	42 1,2-Epoxybutane
13	64	47	57	1	<del>51002</del>	<del>a</del>	<del>3.694</del>	FP	57 Isooctane
14	44	28	69	-12	<del>106764</del>	<del>bb</del>	<del>6.571</del>	FP	55 Ethyl acrylate

WCS/19128

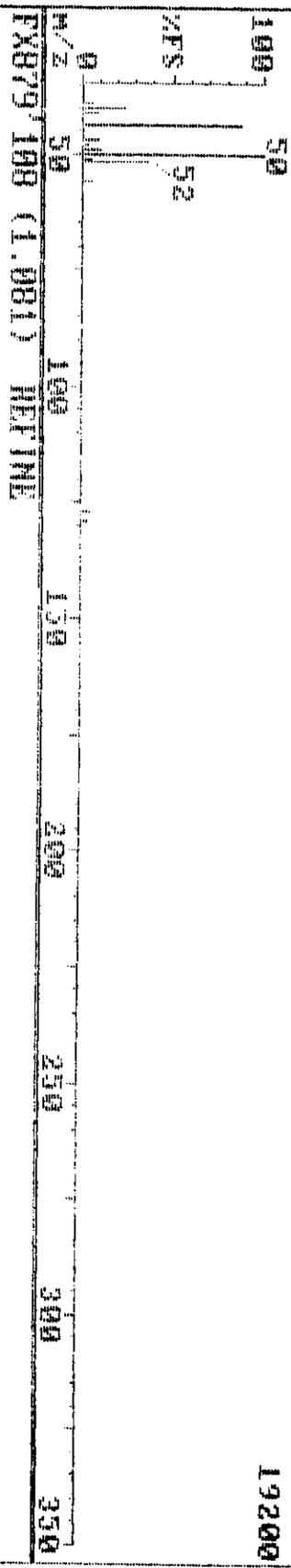
17-Aug-98 16:47

Triangle Laboratories, Inc. (919) 544-5729

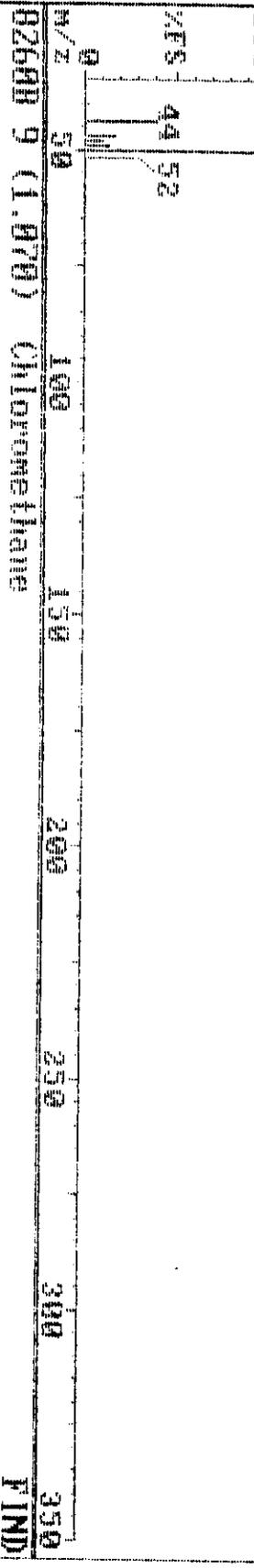
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Instrument F

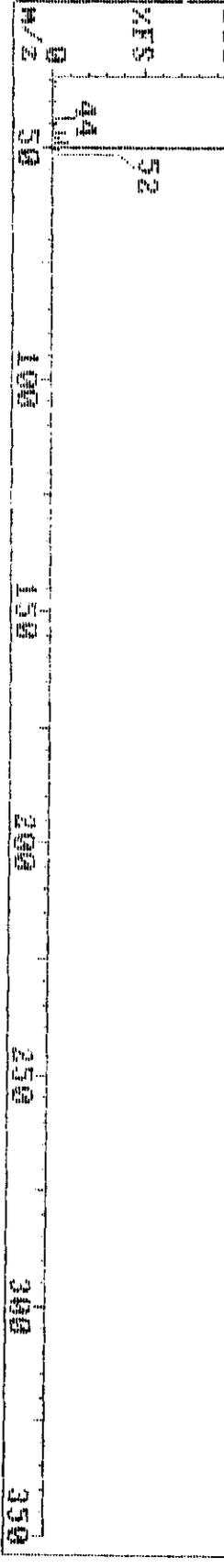
FX879 100 (1.000)



FX879 100 (1.001) HEPTANE 6720

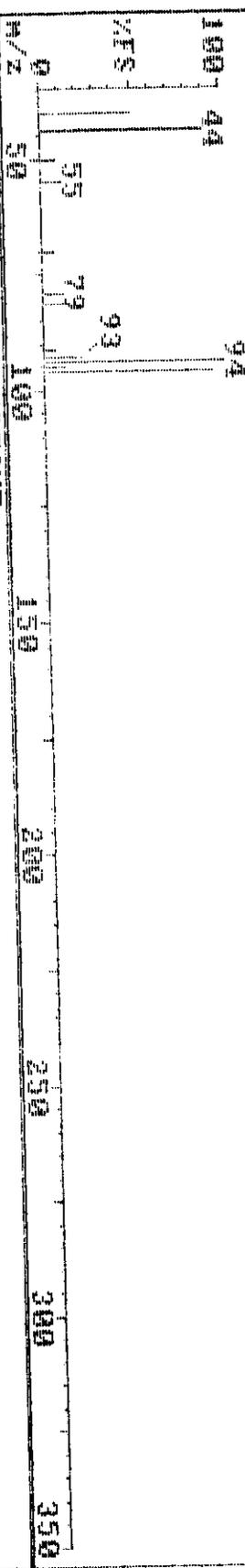


FX879 100 (1.002) CHLOROMETHANE FIND 100

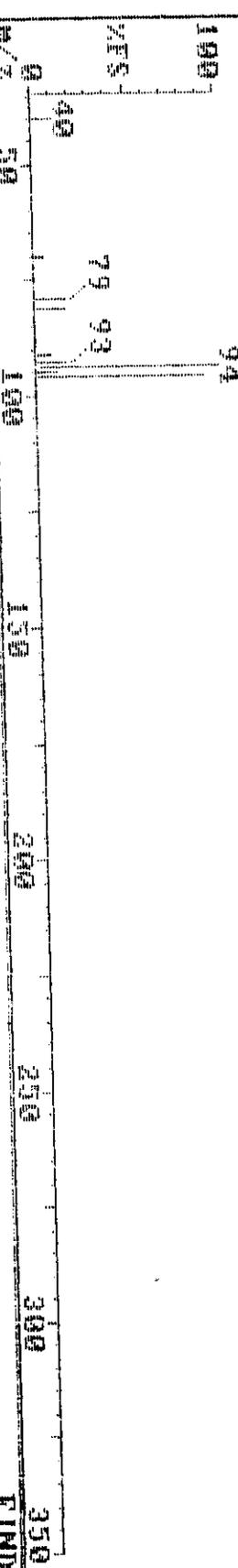


17-Aug-98 16:47 Triangle Laboratories, Inc. (919) 544-5729 Instrument F  
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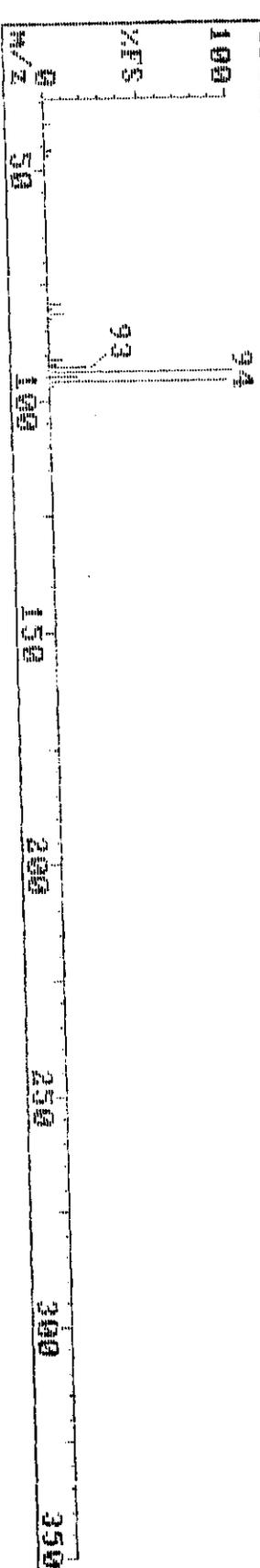
FX079 165 (1.650) 9600



FX079 165 (1.651) REFINE 7232



82608 11 (1.620) Bromomethane FIND 100



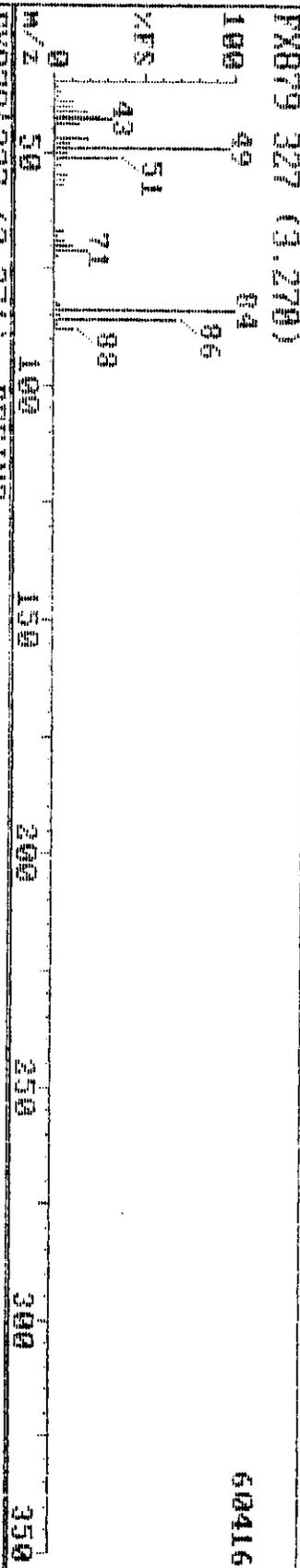
17-Aug-98 16:47

Triangie Laboratories, Inc.

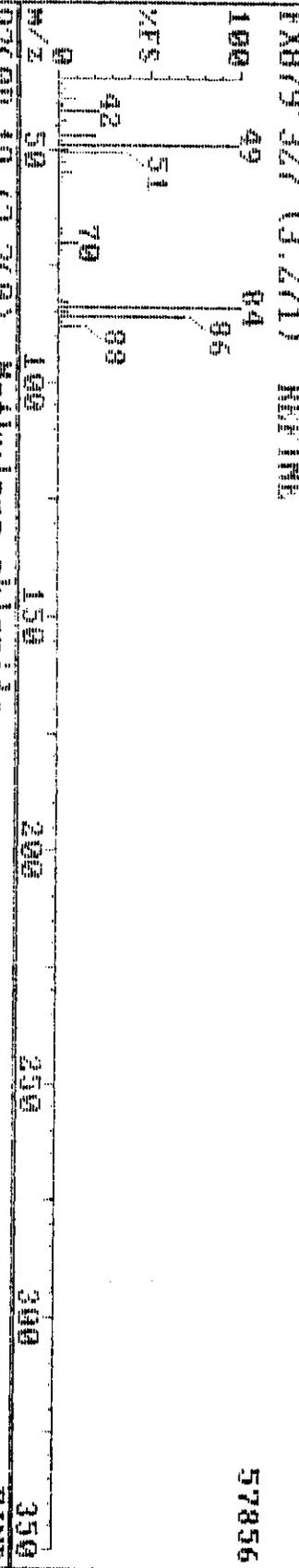
(919) 544-5729

Sample: T-U-1-B TO Z4-1-QD THH46297

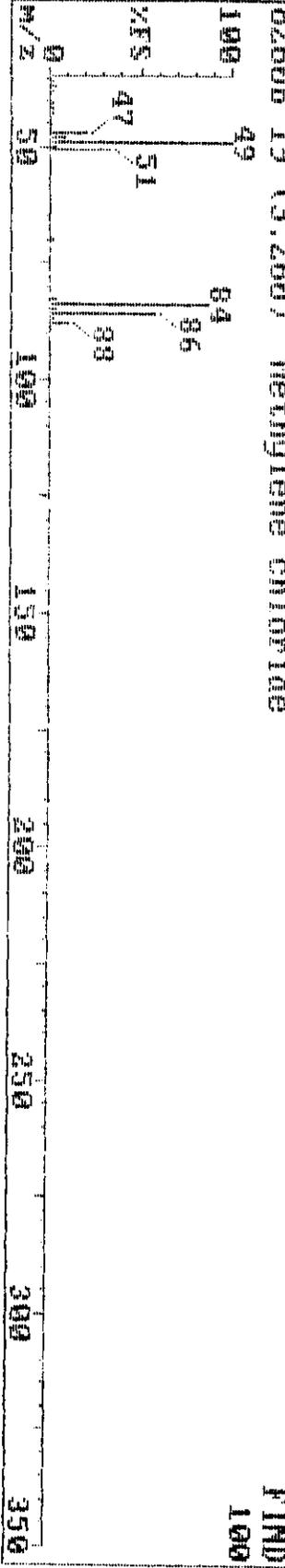
Instrument F



60416



57856



FIND 100

17-Aug-98 16:47

Triangle Laboratories, Inc.

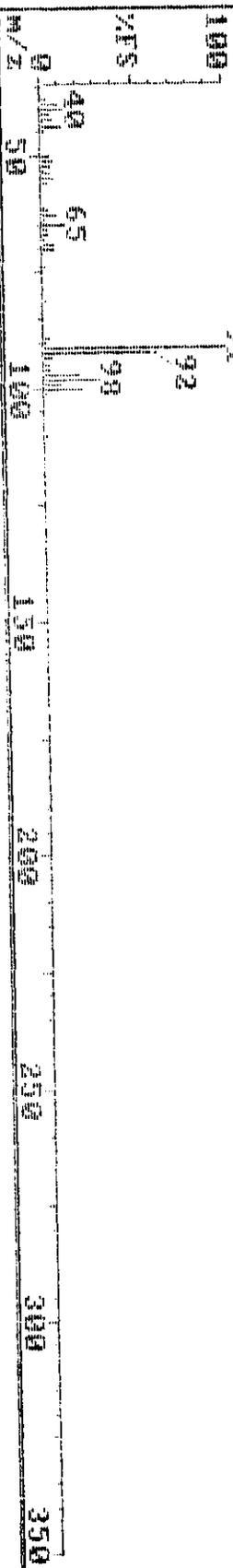
(919) 544-5729

Instrument P

Sample: T-U-1-1-B TO 24-1-GH 1146297

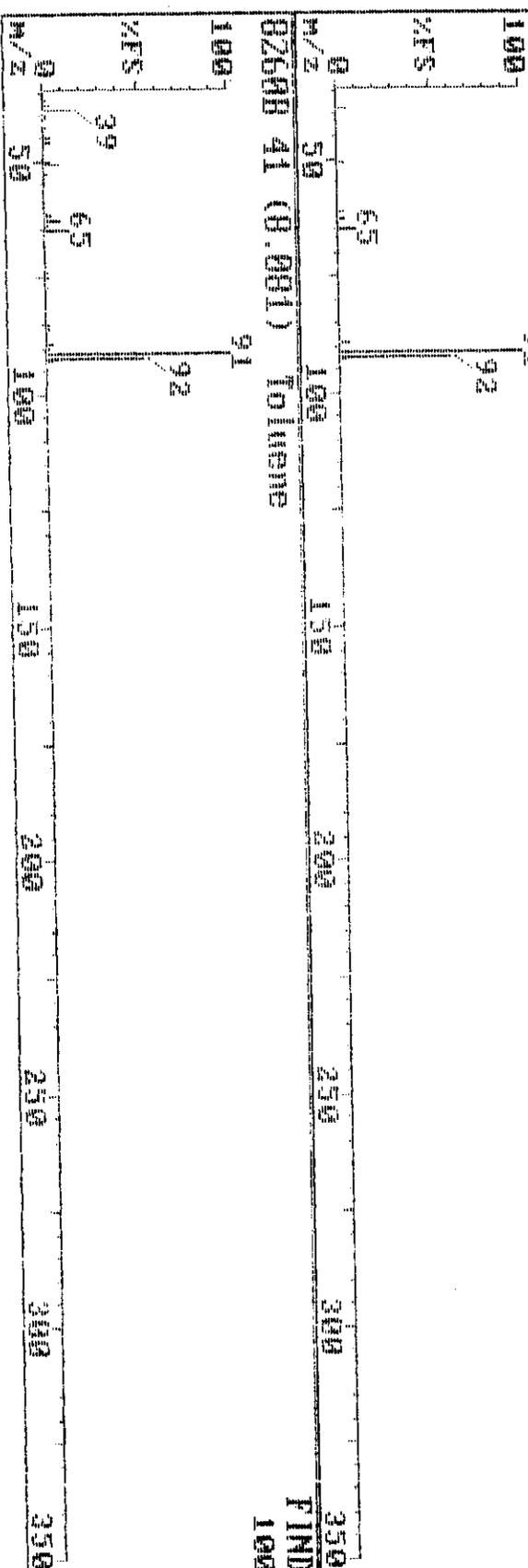
FX879 889 (0.091)

35072



FX879 889 (0.091) HOLDING

30976



02608 41 (0.081) HOLDING

FIND 100

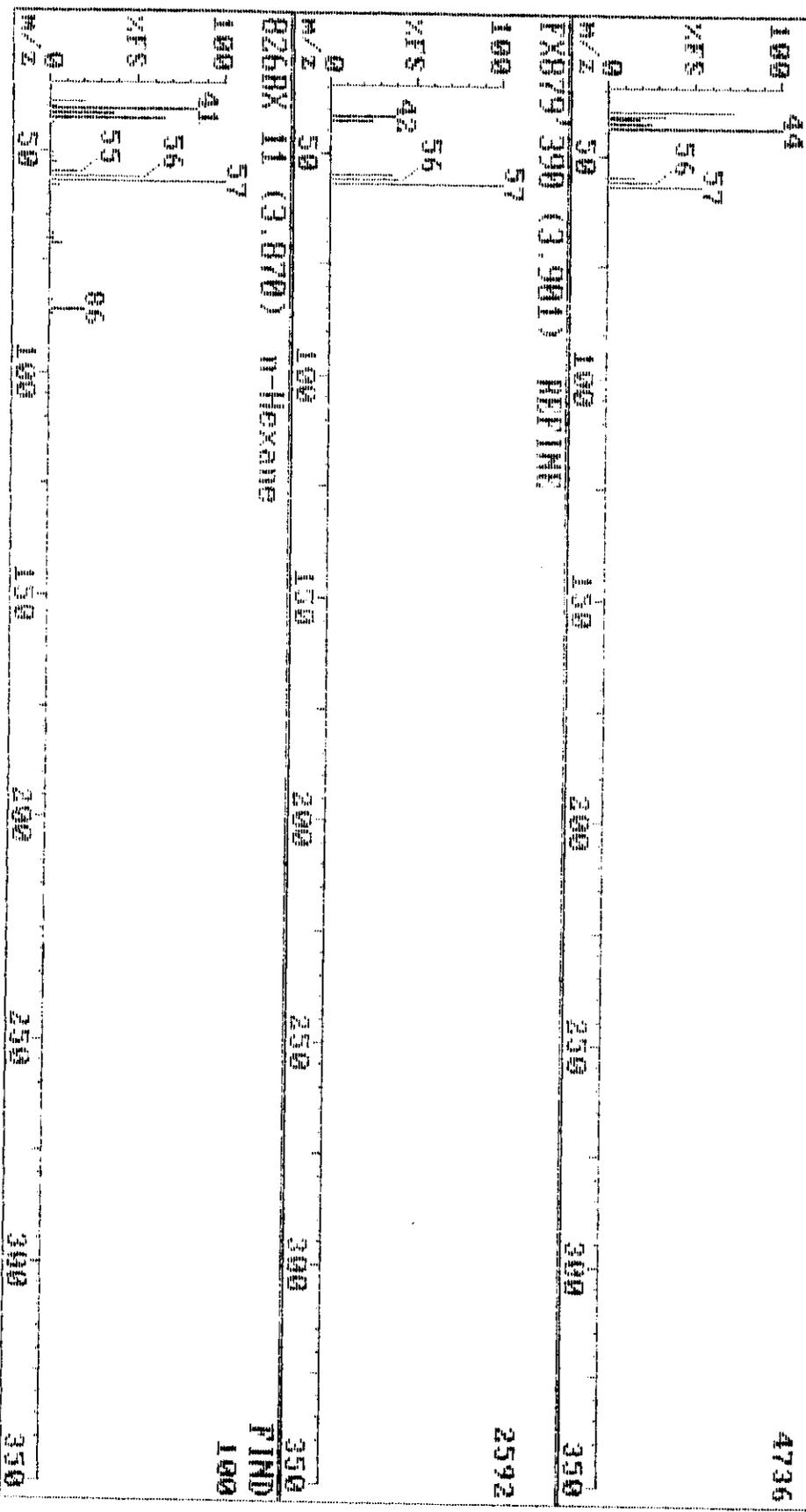
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Triangle Laboratories, Inc. (919) 544-5723

Sample: T-U-1-1-B TC 214-1-58 TL146277

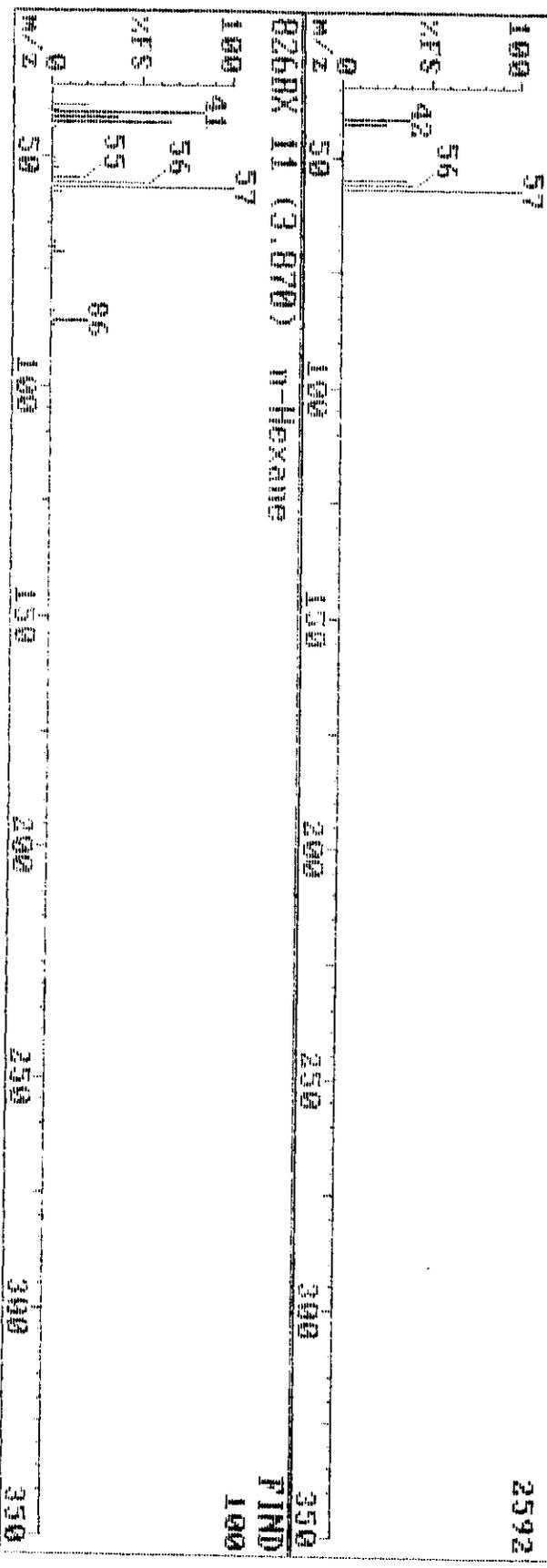
Instrument F

FX879 396 (3.960)



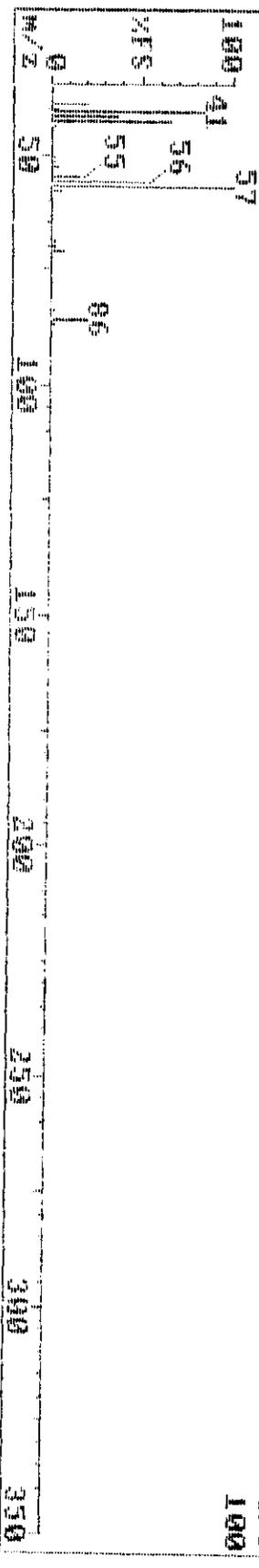
4736

FX879 390 (3.901) n-HEXANE



2592

QZBRX 11 (3.870) n-HEXANE



100

**Pacific Environmental Services**

**Project Number: 46297**  
**Sample File: FX895**

**Method 8260 VOST**  
**Sample ID: T-V-1-2-A T**

**Client Project: Hotmix**  
**TLI ID: 214-1-7A**

**Date Received: 07/25/98**

**Response File: ICALF814**

**Date Analyzed : 08/18/98**

<b>Analyte</b>	<b>Amount ug</b>	<b>FLAG</b>	<b>RT</b>	<b>Det. Limit ug</b>	<b>Quan. Limit ug</b>
Pentafluorobenzene		IS 1	5.30		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.007	J	1.61		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.013	J	2.78		0.05
Acetone	0.204		2.82		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.078		3.27		0.05
Acrylonitrile		U		0.017	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.129	B	5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46297

Sample File: FX895

Method 8260 VOST

Sample ID: T-V-1-2-A T

Client Project: Hotmix

Date Received: 07/25/98

Response File: ICALF814

TLI ID: 214-1-7A

Date Analyzed : 08/18/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.377	B	8.10		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.002	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.36		
Tetrachloroethene	0.054		8.93		0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.128		10.68		0.05
m-/p-Xylene	0.677		10.92		0.10
o-Xylene	0.235		11.64		0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.77		
Cumene		U		0.001	0.05
1,1,1,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 18:03 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX895

Method 8260 VOST  
Sample ID: T-V-1-2-A T

Client Project: Hotmix  
TLI ID: 214-1-7A

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/18/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.229	5.18	1	92
Toluene-d <sub>8</sub>	0.350	8.00	2	140
4-Bromofluorobenzene	0.425	12.66	2	170

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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Printed: 18:03 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX895

Method 8260 VOST  
Sample ID: T-V-1-2-A T

Client Project: Hotmix  
TLI ID: 214-1-7A

Date Received: 07/25/98

Response File: ICALF818

Date Analyzed : 08/18/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.147	J	3.89		0.25
1,2-Epoxybutane		U		0.015	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.004	0.25

Reviewed by VR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

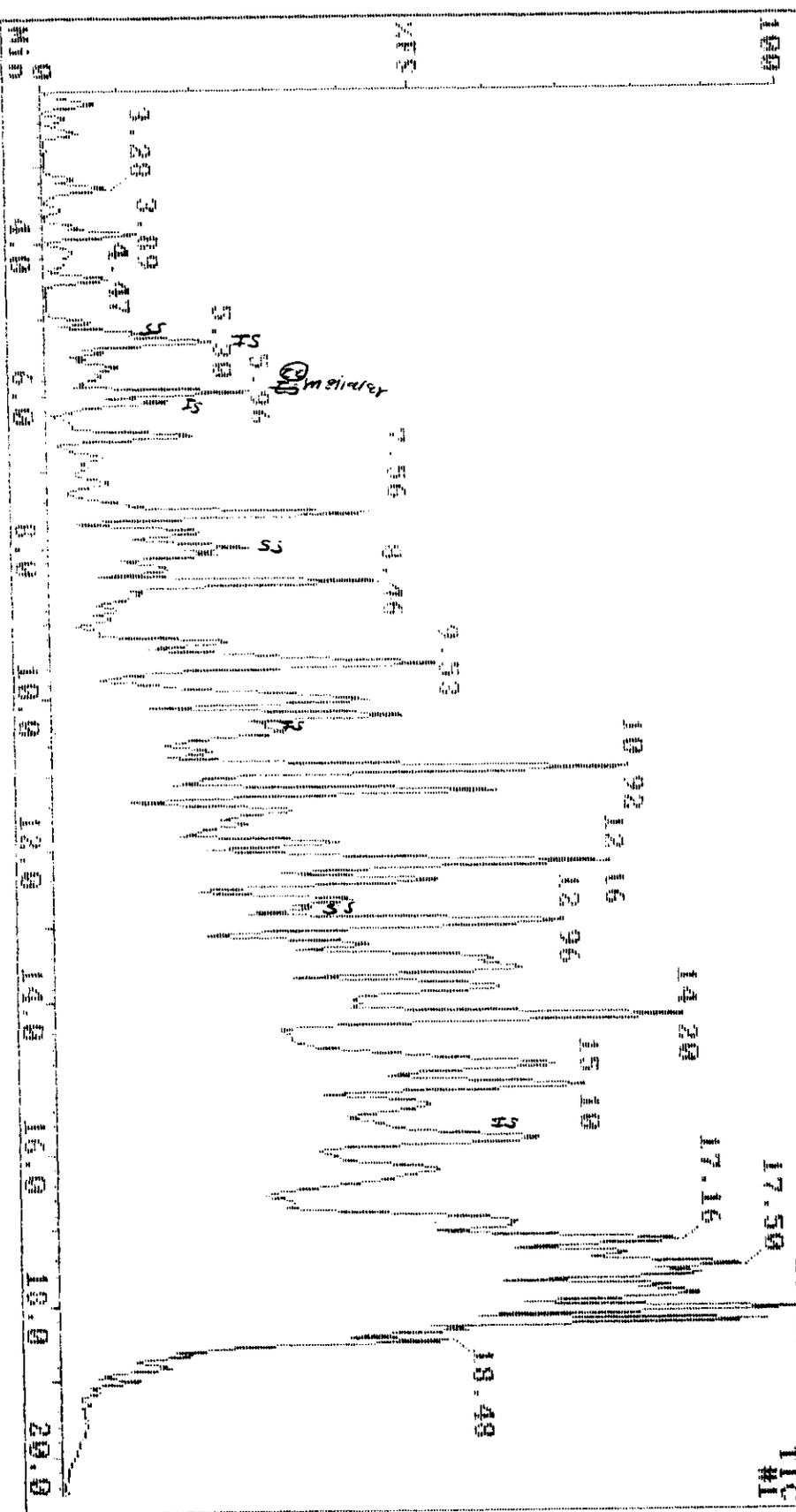
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Savar v3.7

Printed: 18:00 08/24/1998

10-Aug-98 14:17 TFW/ML Laboratories, Inc. (019) 544-5729  
 Sample: T-4-1-2-A T 24-1-70 1146797 Instrument: T  
 FX095



Data Review: YR  
 Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.L.F.Lags	RT	QM	Name	
1	95	56	94	1	2483712	bb	5.301	168	Pentafluorobenzene	
2	100	85	95	0	2639904	bv	6.071	114	1,4-Difluorobenzene	
3	85	57	79	1	2322196	bv	10.361	117	Chlorobenzene-d3	
4	52	14	71	4	1211712	bv	15.772	152	1,4-Dichlorobenzene-d4	
5	93	49	99	0	956260	bv	5.131	113	Dibromofluoromethane	
6	96	70	88	1	3770672	bv	8.001	98	Toluene-d8	
7	62	38	63	1	1325120	vv	12.861	95	4-Bromo fluorobenzene	
8	0	0	0	0	0		0.000	85	Trichloro difluoromethane	
9	0	0	0	0	0		0.000	50	Chloromethane	
10	0	0	0	0	0		0.000	69	Vinyl chloride	
11	53	34	50	-1	10595	A	1.510	24	Bromomethane	
12	0	0	0	0	0		0.000	24	Chloroethane	
13	0	0	0	0	0		0.000	101	1,1-Difluoroethane	
14	0	0	0	0	0		0.000	21	1,1-Dichloroethane	
15	0	0	0	0	0		0.000	42	Acetone	
16	67	40	74	1	112008	bb	2.700	26	Carbon disulfide	
17	97	63	92	0	94100	vv	2.820	43	Acetone	
18	0	0	0	0	0		0.000	35	Allyl chloride	
19	0	0	0	0	0		0.000	34	Methylenedichloride	
20	30	17	29	-5	<del>181336</del>	<del>FP</del>	<del>1.510</del>	53	<del>benzotrifluoride</del>	
21	0	0	0	0	0		0.000	20	trans-1,2-Dichloroethene	
22	0	0	0	0	0		0.000	65	1,1-Dichloroethane	
23	0	3	0	0	0		0.000	45	Vinyl acetate	
24	0	0	0	0	0		0.000	71	2,2-dichloropropane	
25	0	3	0	0	0		0.000	26	cis-1,2-Dichloroethane	
26	79	2	70	1	<del>36603</del>	<del>bv</del>	<del>1.510</del>	<del>FP</del>	<del>43</del>	<del>2-Butanone</del>
27	0	0	0	0	0		0.000	81	Chloroform	
28	0	0	0	0	0		0.000	128	Bromochloromethane	
29	0	0	0	0	0		0.000	97	1,1,1-Trichloroethane	
30	0	0	0	0	0		0.000	117	Carbon tetrachloride	
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene	
32	100	92	99	0	1323264	bv	5.521	78	Benzene	
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane	
34	0	0	0	0	0		0.000	130	Trichloroethene	
35	0	0	0	0	0		0.000	63	1,2-Dichloropropane	
36	0	0	0	0	0		0.000	93	Dibromomethane	
37	47	15	56	-11	<del>951701</del>	<del>A</del>	<del>5.301</del>	<del>FP</del>	<del>41</del>	<del>Methyl methacrylate</del>
38	0	0	0	0	0		0.000	83	Bromodichloromethane	
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene	
40	35	32	68	-19	<del>1051400</del>	<del>vv</del>	<del>7.772</del>	<del>FP</del>	<del>43</del>	<del>4-Methyl-2-pentanone</del>
41	100	83	99	1	2860720	vv	8.101	22	Toluene	
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene	
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane	
44	0	0	0	0	0		0.000	69	Ethyl methacrylate	
45	67	35	77	-1	236300	bb	8.231	164	Tetrachloroethene	
46	0	0	0	0	0		0.000	76	1,3-Dichloropropene	
47	42	24	64	-10	<del>1288877</del>	<del>vv</del>	<del>2.241</del>	<del>FP</del>	<del>43</del>	<del>2-Heptanone</del>
48	0	0	0	0	0		0.000	129	Dibromochloromethane	
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane	
50	0	0	0	0	0		0.000	112	Chlorobenzene	

Data Review: *MM*  
 Date: 8/19/98

No.	MAI	FOR	REV	Delta	Area	P.F.Lags	RT	QM	Name
51	0	0	0	0	0		0.000	L31	1,1,1,2-Tetrachloroethane
52	85	54	86	-1	726255	bv	10.681	L06	Ethylbenzene
53	36	67	90	-1	4729632	wv	10.921	L06	m-p-Xylene
54	92	67	89	0	1569024	bv	11.541	L06	o-Xylene
55	0	0	0	0	0		0.000	L04	Styrene
56	0	0	0	0	0		0.000	L75	Bromoform
57	0	0	0	0	0		0.000	L05	Cumene
58	0	0	0	0	0		0.000	83	1,1,1,2-Tetrachloroethane
59	0	0	0	0	0		0.000	L56	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,4-Trichloropropane
61	0	0	0	0	0		0.000	L20	m-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,2-Dichloroethane
63	0	0	0	0	0		0.000	L26	2-Chlorotoluene
64	0	0	0	0	0		0.000	L06	4-Chlorotoluene
65	38	43	92	-25	3068411	wv	15.601	L05	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	L77	tert-Butylbenzene
67	87	52	94	-9	9117632	bv	11.032	L05	1,2,4-Trimethylbenzene
68	39	19	56	-2	<del>11155</del>		<del>0.000</del>	L05	sec-Propylbenzene
69	0	0	0	0	0		0.000	L77	p-Dimethyl
70	0	0	0	0	0		0.000	L33	1,2-Dichloroethane
71	0	0	0	0	0		0.000	L05	1,3-Dichlorobenzene
72	0	0	0	0	0		0.000	71	trans-1,2-Dichloroethane
73	0	0	0	0	0		0.000	71	trans-1,2-Dichloroethane
74	0	0	0	0	0		0.000	L36	1,2-Dichloroethane
75	0	0	0	0	0		0.000	75	1,2-Dichloroethane
76	0	0	0	0	0		0.000	L60	1,2,4-Trichlorobenzene
77	0	0	0	0	0		0.000	Z05	Hexachlorocyclohexane
78	0	0	0	0	0		0.000	L78	Heptachloro
79	0	0	0	0	0		0.000	L30	1,2,3-Trichlorobenzene

YR 8119/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name	
1	93	56	94	1	2483712	bb	5.301	68	Pentafluorobenzene	
2	100	83	95	0	2639904	bv	6.071	114	1,4-DiFluorobenzene	
3	85	57	79	0	2322196	bv	10.361	117	Chlorobenzene-d5	
4	52	14	71	3	1311712	bv	15.772	132	1,4-Dichlorobenzene-d4	
5	93	49	99	0	956260	bv	5.181	113	Dibromofluoromethane	
6	99	70	88	0	3770622	bv	8.001	98	Toluene-d8	
7	63	38	63	0	1525120	vv	12.661	95	4-Bromofluorobenzene	
8	55	36	63	7	<del>209250</del>	<del>a</del>	<del>1.140</del>	<del>FP</del>	<del>39</del>	<del>1,3-Butadiene</del>
9	0	0	0	0	0		0.000		108	Vinyl bromide
10	71	55	63	1	<del>22270</del>	<del>bb</del>	<del>7.688</del>	<del>FP</del>	<del>73</del>	<del>MTBE</del>
11	100	95	99	1	1696232	bb	7.890	57	n-Hexane	
12	59	45	64	3	<del>217425</del>	<del>bv</del>	<del>4.471</del>	<del>FP</del>	<del>42</del>	<del>1,2-Epoxybutane</del>
13	62	45	57	2	<del>253186</del>	<del>a</del>	<del>5.791</del>	<del>FP</del>	<del>57</del>	<del>Isooctane</del>
14	43	28	70	-13	<del>1875922</del>	<del>vb</del>	<del>6.531</del>	<del>FP</del>	<del>55</del>	<del>Ethyl acrylate</del>

VR 8/19/98

10 Aug-90 14:17

Triangle Laboratories, Inc.

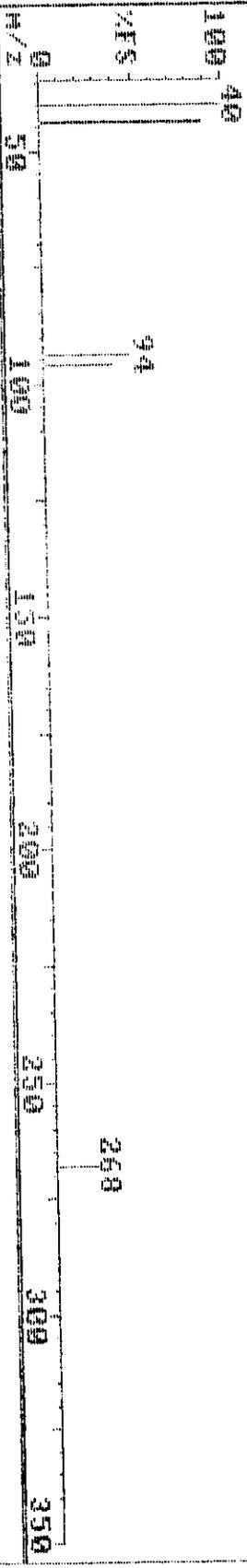
(919) 544-5729

Instrument F

Sample: T-U-1-2-A I 211-1-7A T1146297

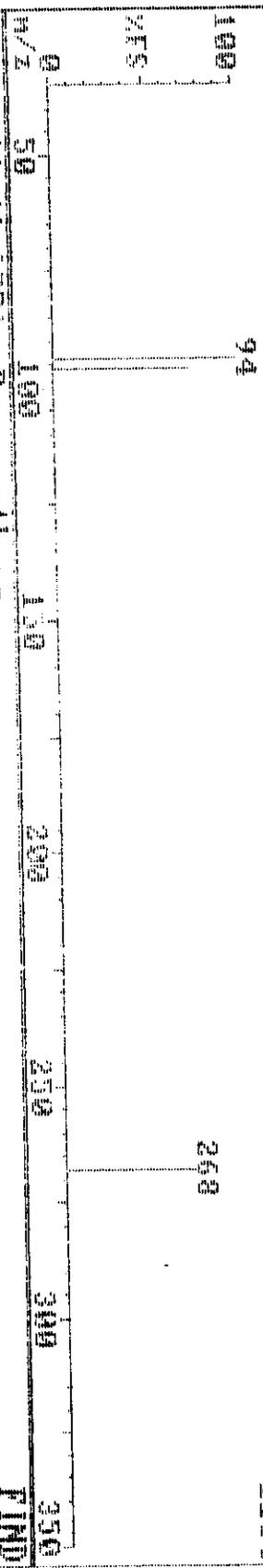
FX095 161 (1.610)

3440



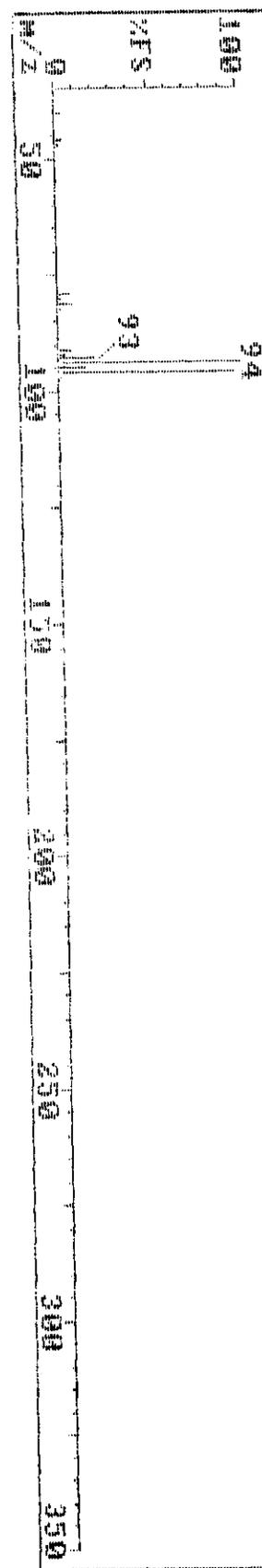
FX095 161 (1.611) METAL

1104



02600 11 (1.620) Bromobenzene

FIND 100



10-Aug-98 14:17

Triangle Laboratories, Inc.

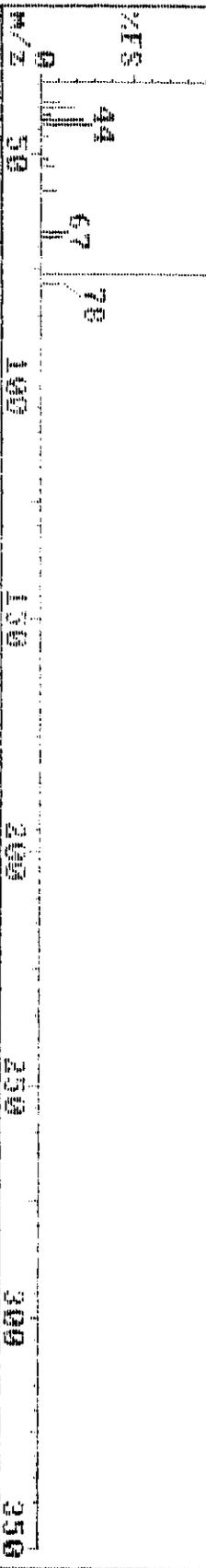
(919) 544-5729

Sample: T-V-1-2-A I 214-1-7A THW6297

Instrument F

FX895 278 (2.700)

100% 75 18944

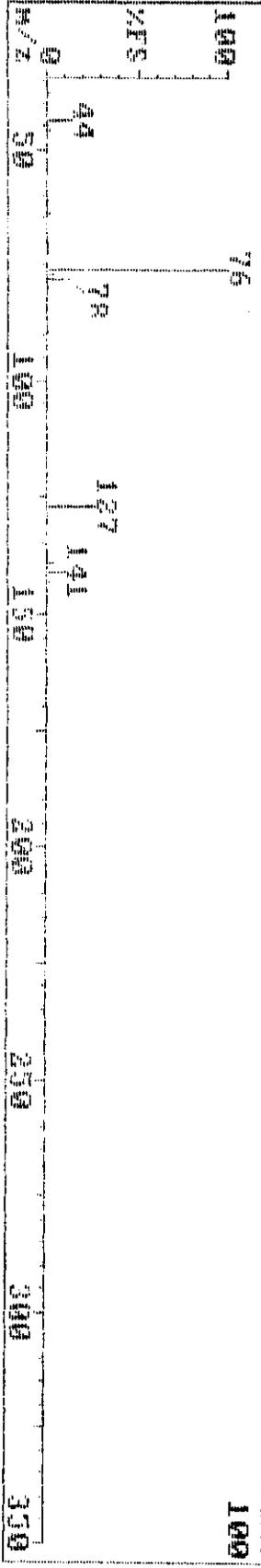


FX895 278 (2.700) RT: 1.16

100% 75 18432

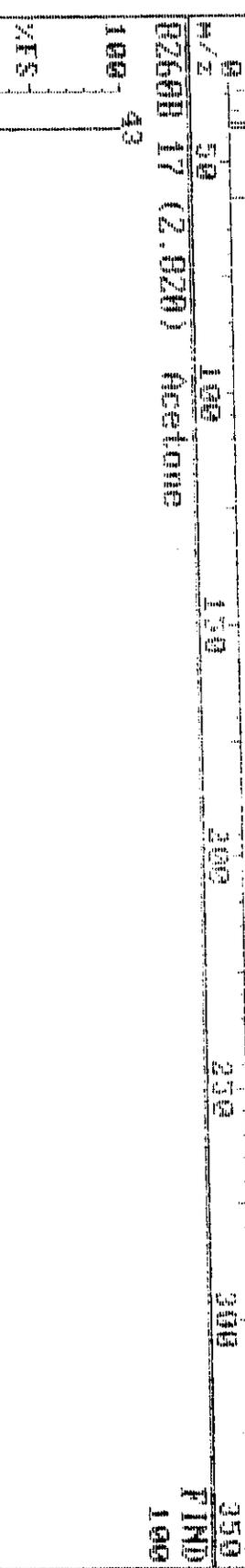
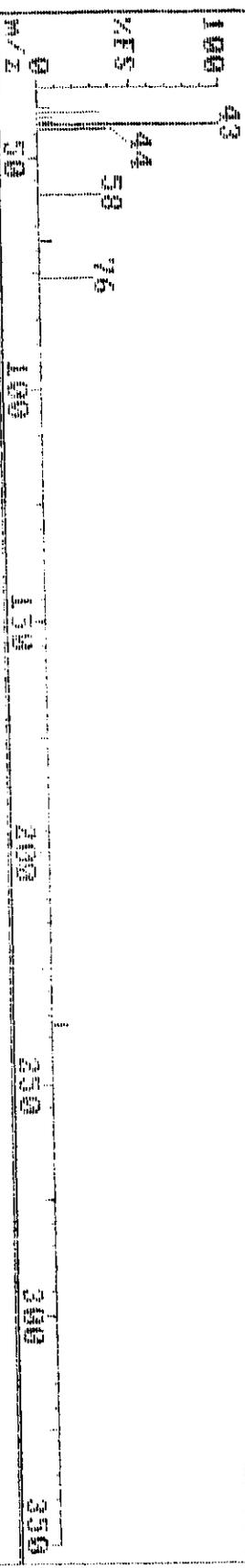


FX895 278 (2.700) RT: 1.16 Carbon disulfide FIND 100



10-Aug-98 14:17 Triply Laboratories, Inc. (919) 544-5729 Instrument F  
 Sample: T-U-1-2-A 1 214-1-70 THM0297

FX095 282 (2.820) 11264



8-Aug-98 14:17

Triangle Laboratories, Inc.

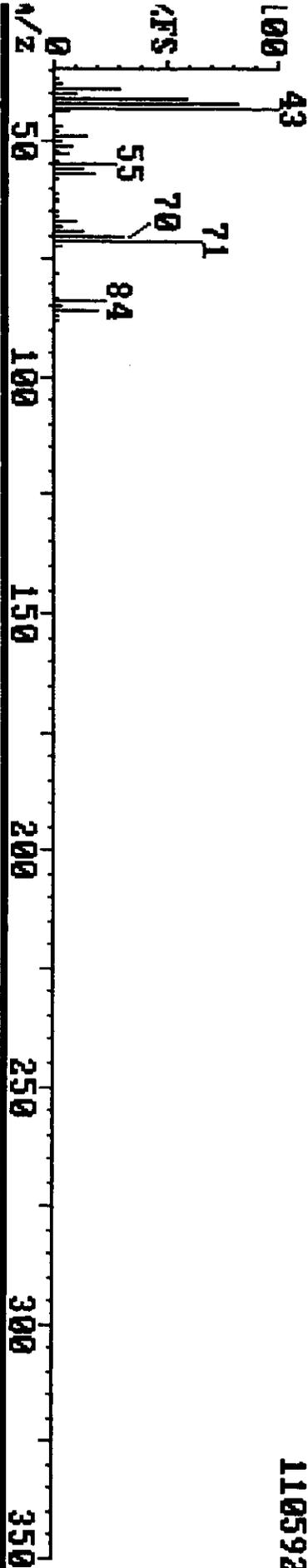
(919) 544-5729

Sample: T-U-1-2-A T 214-1-7A TL1#46297

Instrument F

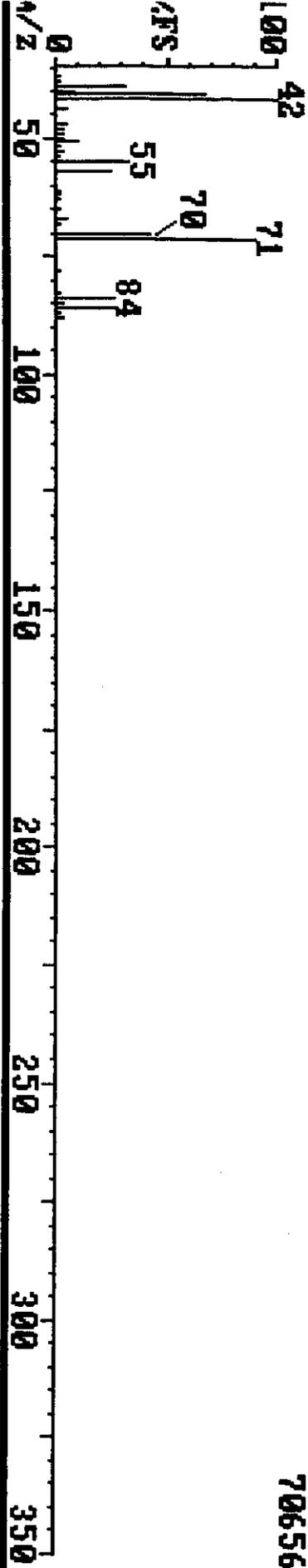
PX895 327 (3.270)

110592



PX895 327 (3.271) REFINE

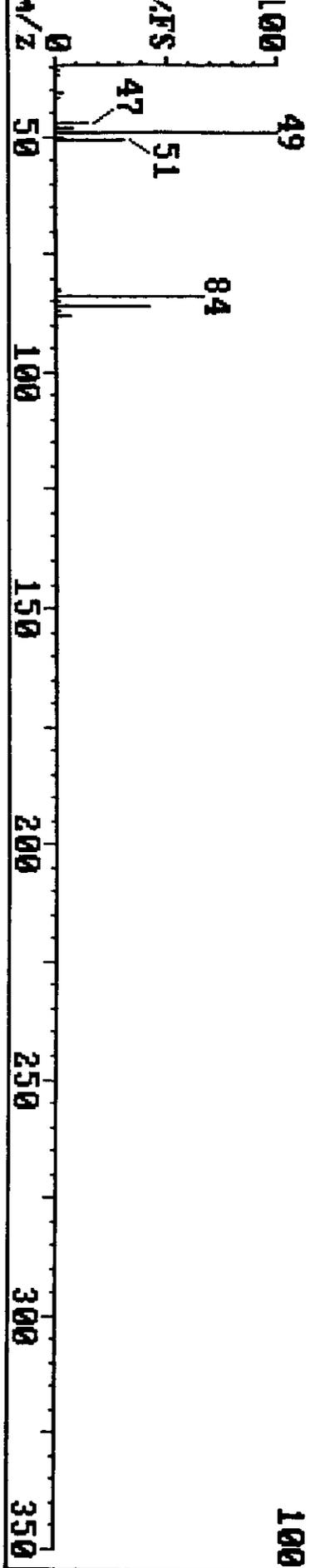
70656



MASTER 22 (3.590) Methylene chloride

FIND

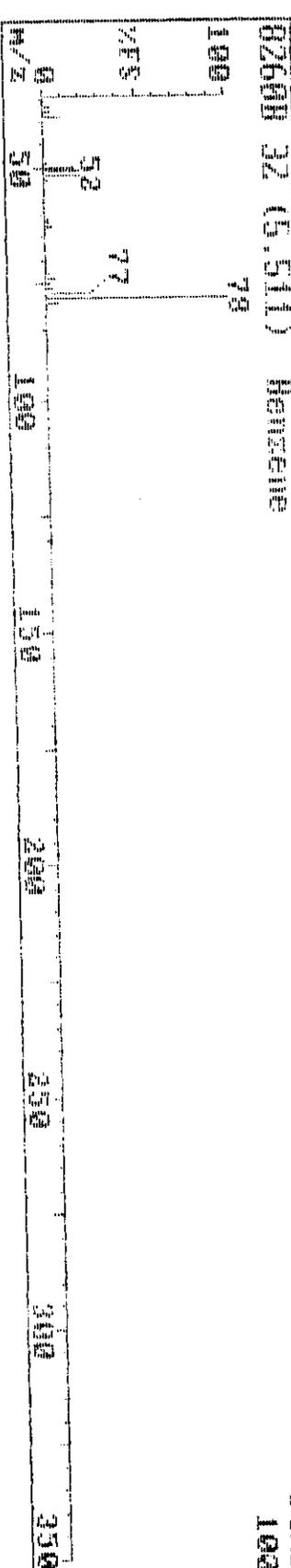
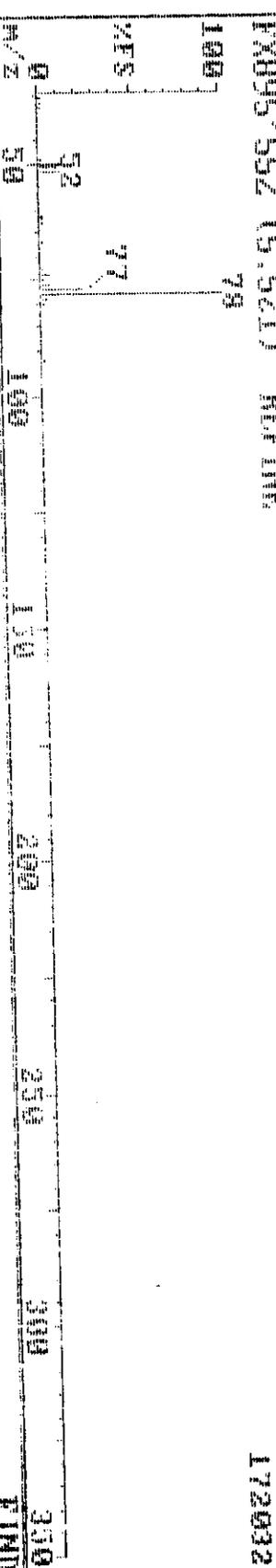
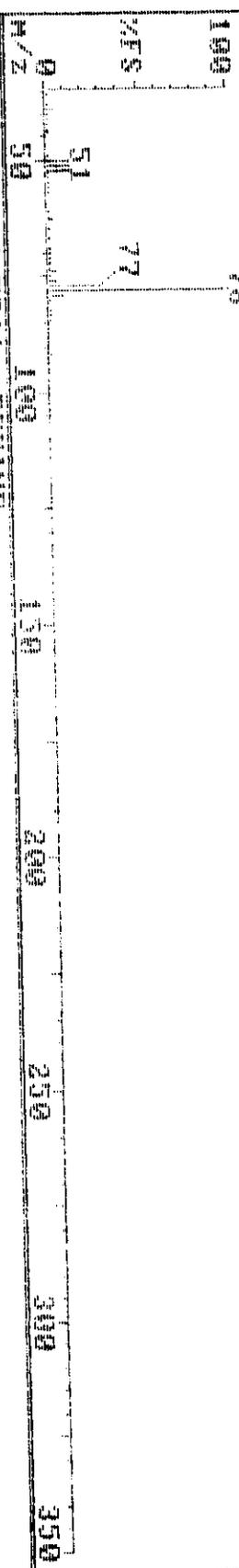
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10-Aug-98 14:17 Triang Laboratories, Inc. (919) 544-5729 Instrument F

Sample: 1-U-1-2-A 1 24-1-70 1146297

FX895 552 (5.521) 184320



10-Aug-98 14:17

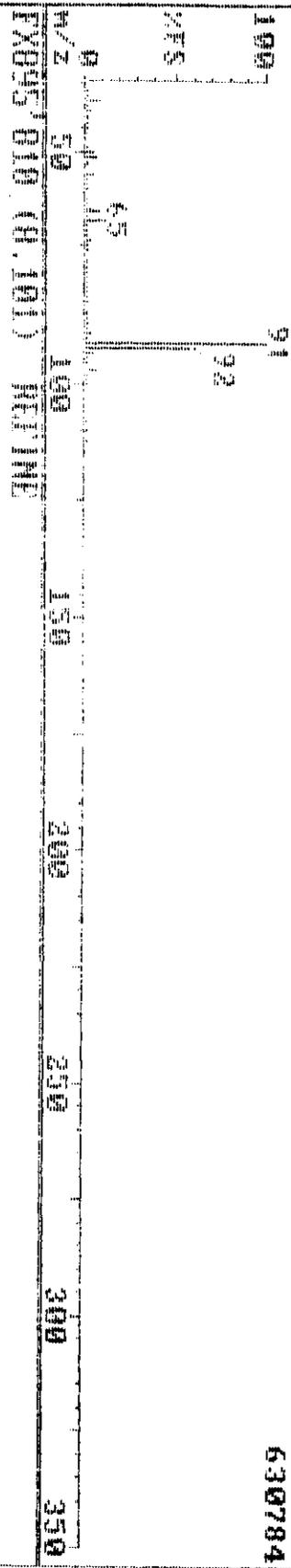
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-1-2-A I 214-L-M TLW46297

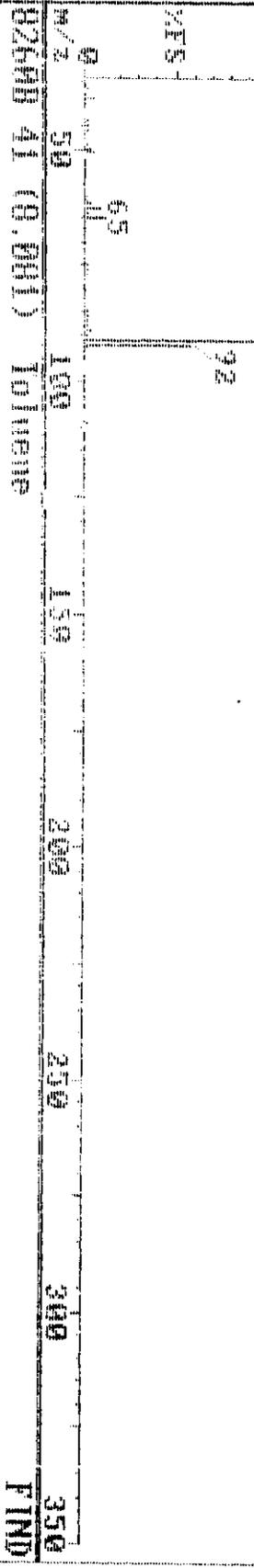
Instrument F

EX95 010 (0.10)

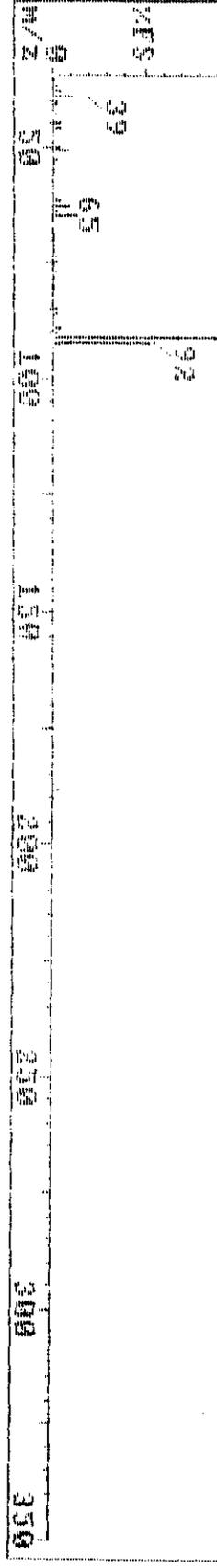
630784



577536



FTND  
100



10-Aug-90 14:17

Triangle Laboratories, Inc.

(919) 544-5729

Instrument F

Sample: 14-1-2-A T 214-1-70 T1146297

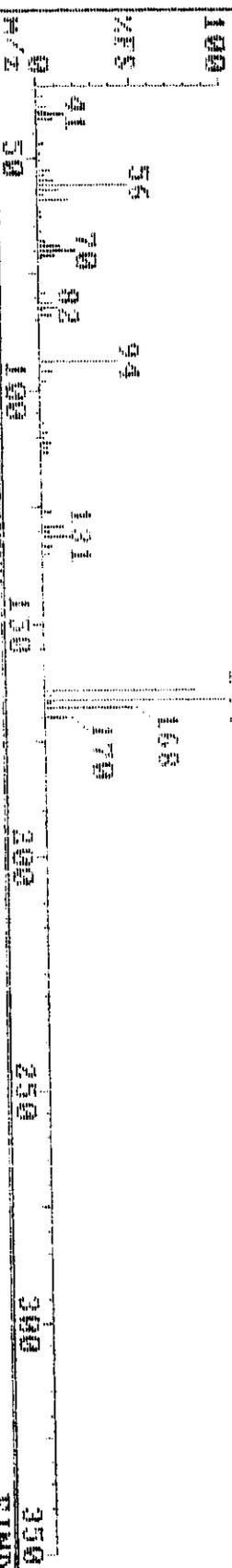
FX095 893 (8.931)

49664



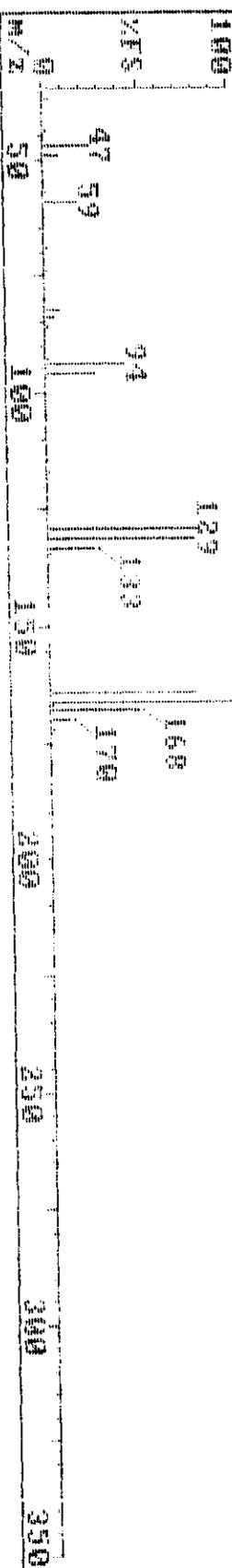
FX095 893 (8.931) REFERENCE

32512

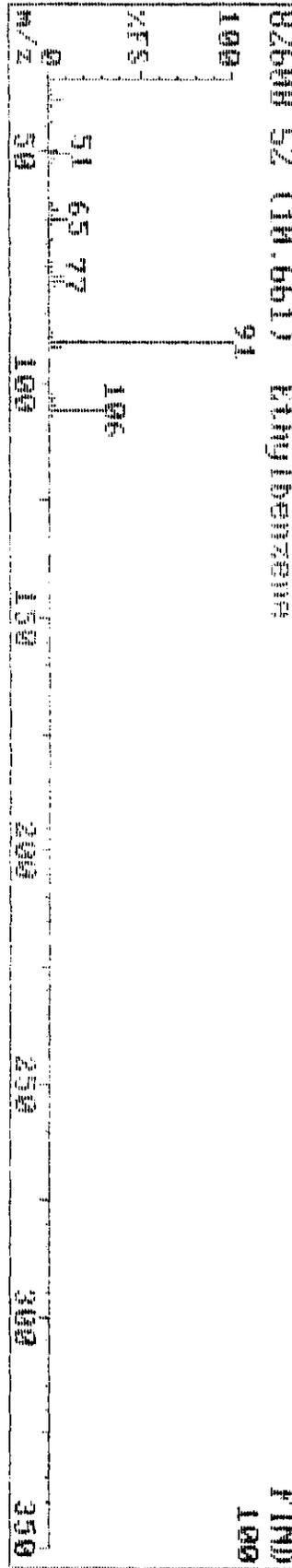
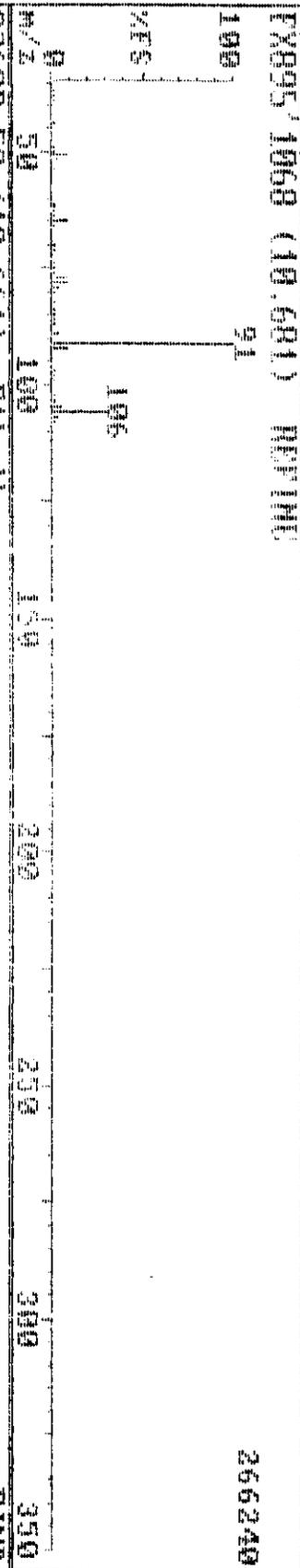
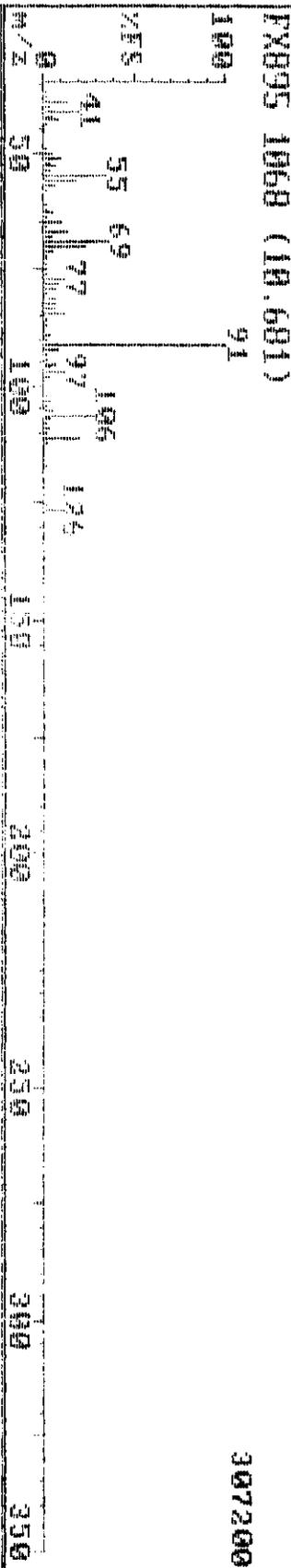


02600 45 (8.911) Tetradimorphane

FIND 100



18-Aug-98 14:17 Triowbe Laboratories, Inc. (919) 544-5729  
 Sample: T-U-1-2-A I 24-174 TMR0297 Instrument F



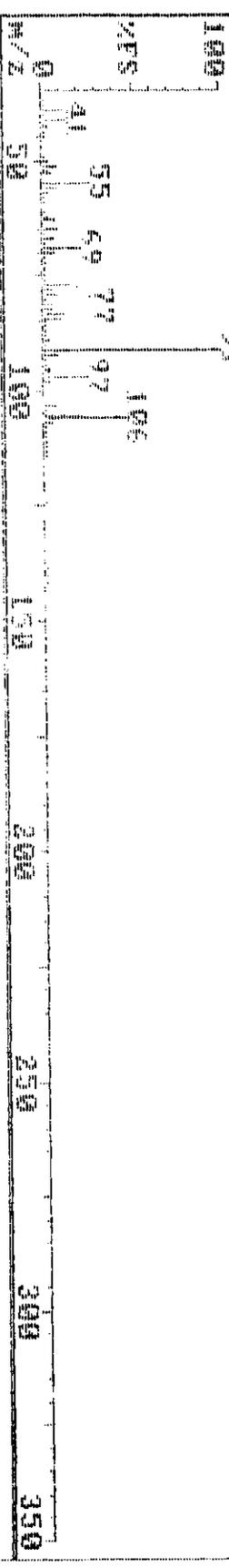
307200

266240

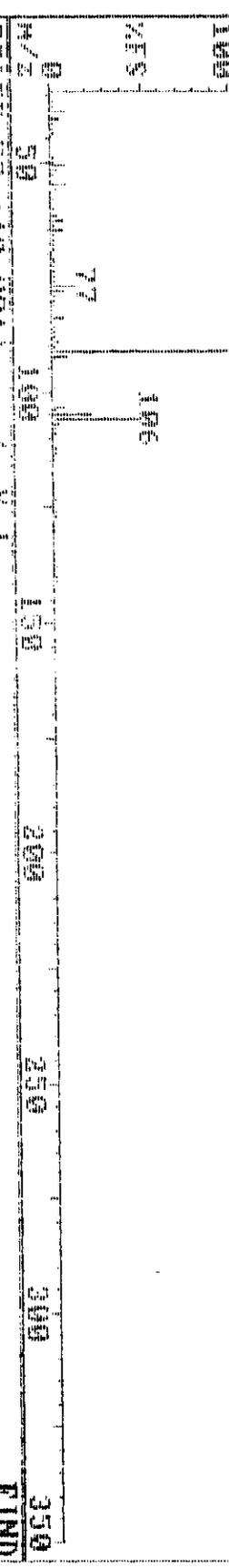
FIND 100

10-Aug-98 14:17 Triang Laboratories, Inc. (919) 544-5729 Instrument F  
Sample: T-4-1-2-1 T 214.1070 11/14/2007

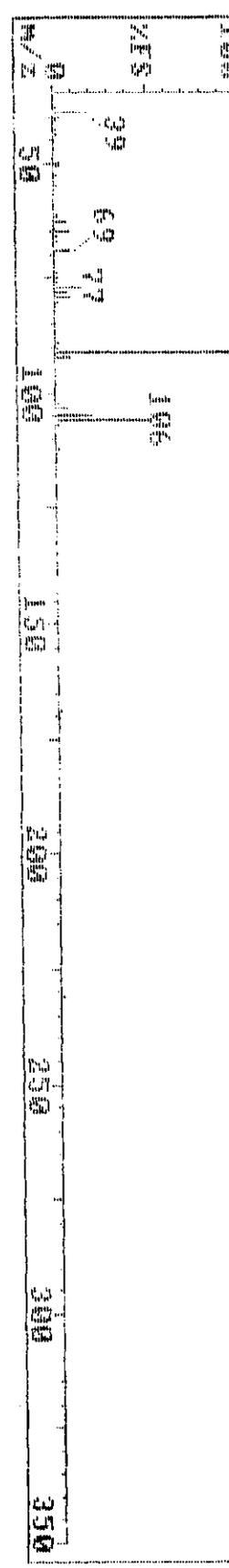
FX095 1092 (00.921) 91 1245184



FX095 1092 (00.921) 91 1097728



02/00 53 (00.901) m/p-Xylene FIND 100



10-AUG-90 14:17

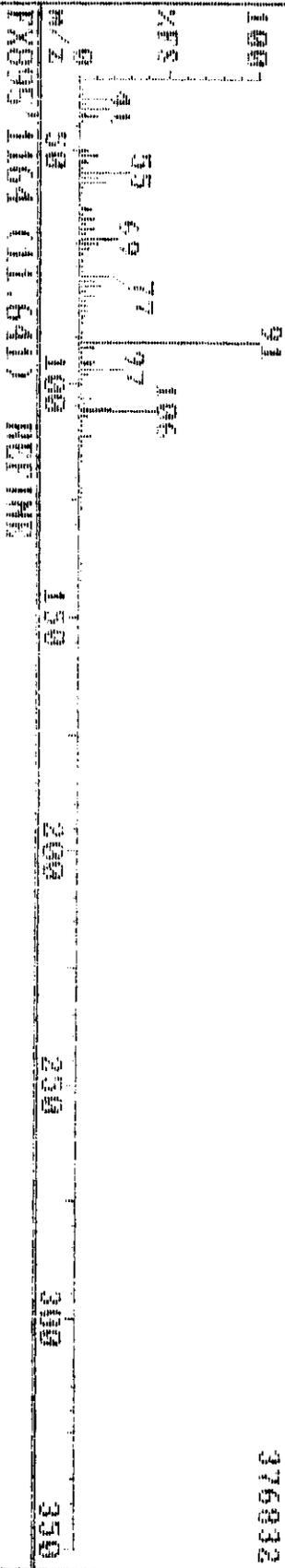
Trienvo Laboratories, Inc. (919) 54-5770

Sample: 10-1-2-A 1 24-170 1146207

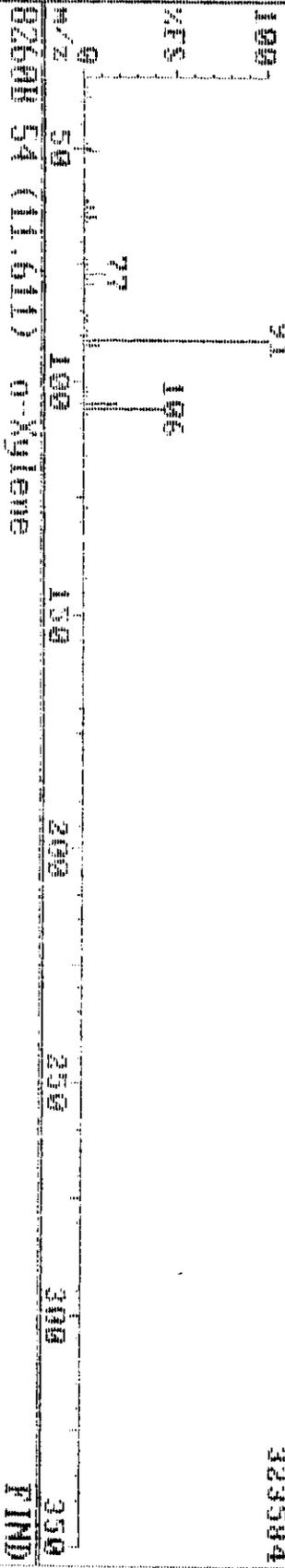
Instrument: F

EX95 164 (11.611)

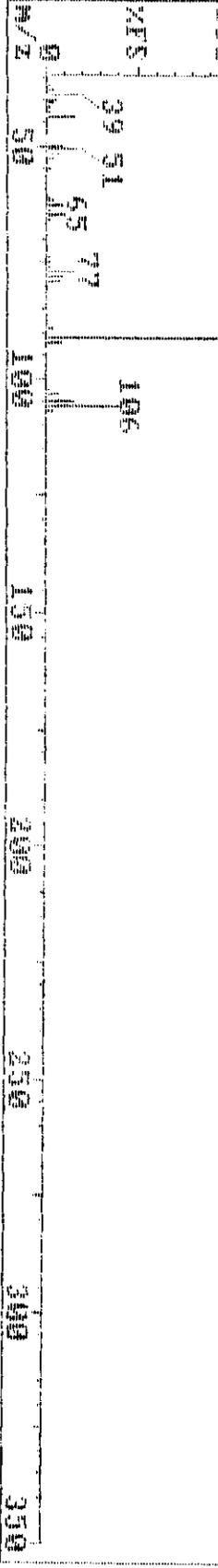
376932



323584



FIND 100



10-Aug-90 14:17

Tri-County Laboratories, Inc.

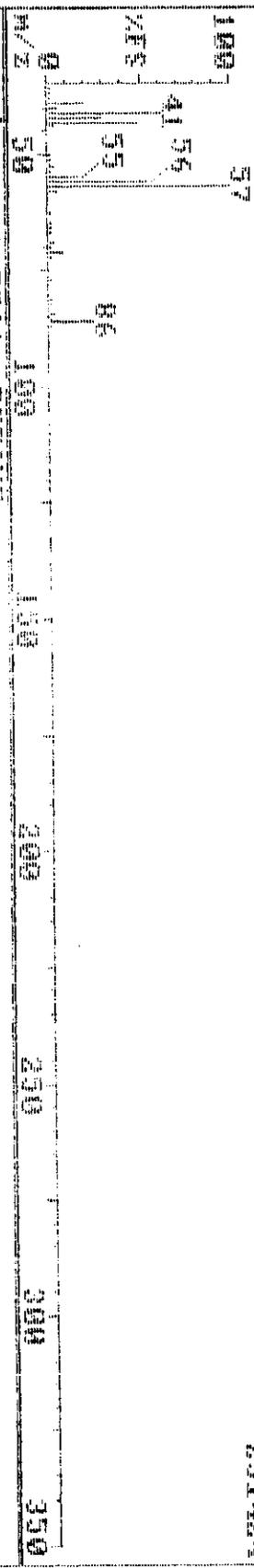
(910) 544-5729

Sample: T-U-1-2-A I 211-1-70 TIM0297

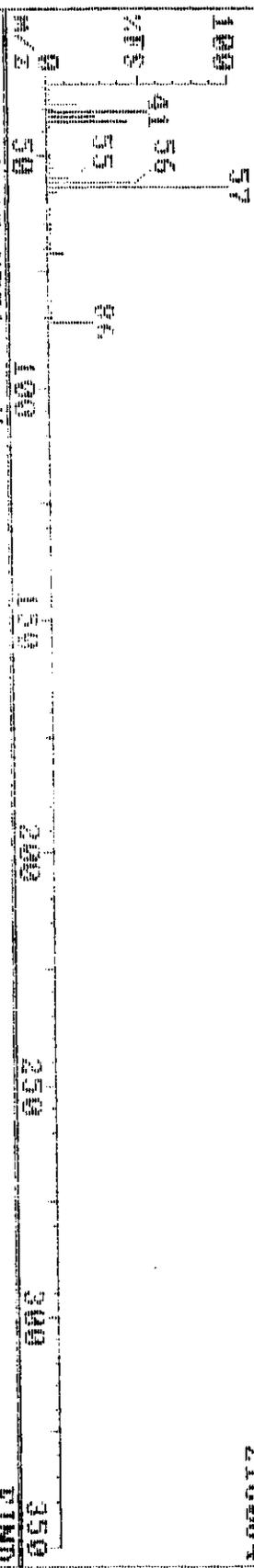
Instrument F

FX095 309 (3.890)

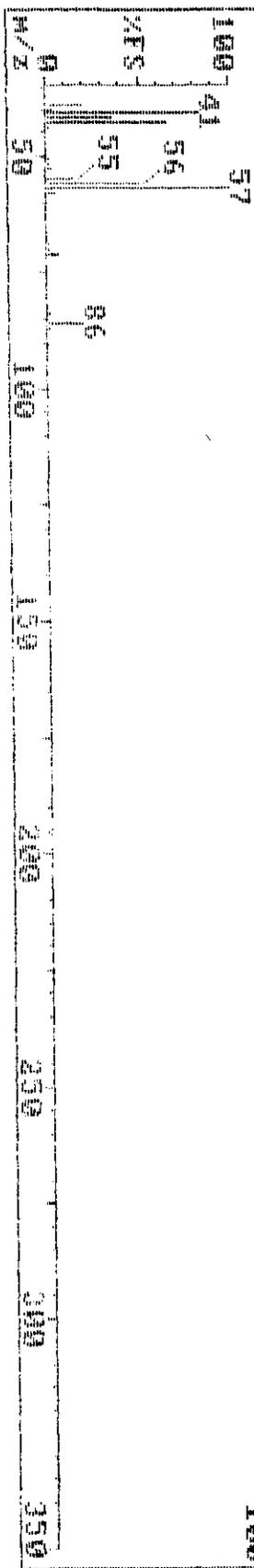
231424



216064



FIND 100



**Pacific Environmental Services**

**Project Number: 46297**

**Sample File: FX880**

**Method 8260 VOST**

**Sample ID: T-V-1-2-B TC**

**Client Project: Hotmix**

**TLI ID: 214-1-7B**

**Date Received: 07/25/98**

**Response File: ICALF814**

**Date Analyzed: 08/17/98**

<b>Analyte</b>	<b>Amount ug</b>	<b>FLAG</b>	<b>RT</b>	<b>Det. Limit ug</b>	<b>Quan. Limit ug</b>
Pentafluorobenzene		IS 1	5.30		
Chloromethane	0.080		1.09		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.068		1.65		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.004	J	2.78		0.05
Acetone	0.039	J	2.86		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.248		3.27		0.05
Acrylonitrile		U		0.015	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Triangle Laboratories, Inc.**

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:44 08/24/1998

**Pacific Environmental Services**

Project Number: 46297  
Sample File: FX880

Method 8260 VOST  
Sample ID: T-V-1-2-B TC

Client Project: Hofmix  
TLI ID: 214-1-7B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.059	B	8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.35		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene	0.001	J	10.91		0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.71		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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Savar v3.7  
Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX880

Method 8260 VOST  
Sample ID: T-V-1-2-B TC

Client Project: Hotmix  
TLI ID: 214-1-7B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed: 08/17/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.246	5.18	1	98
Toluene-d <sub>8</sub>	0.315	8.00	2	126
4-Bromofluorobenzene	0.278	12.65	2	111

Reviewed by VR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 17:44 08/24/1998

**Pacific Environmental Services**

Project Number: 46297  
 Sample File: FX880

Method 8260 VOST  
 Sample ID: T-V-1-2-B TC

Client Project: Hotmix                      Date Received: 07/25/98                      Response File: ICALF817  
 TLI ID: 214-1-7B                              Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.001	J	3.90		0.25
1,2-Epoxybutane		U		0.010	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.002	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
 801 Capitola Drive • Durham, North Carolina 27713  
 Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
 Printed: 18:00 08/24/1998

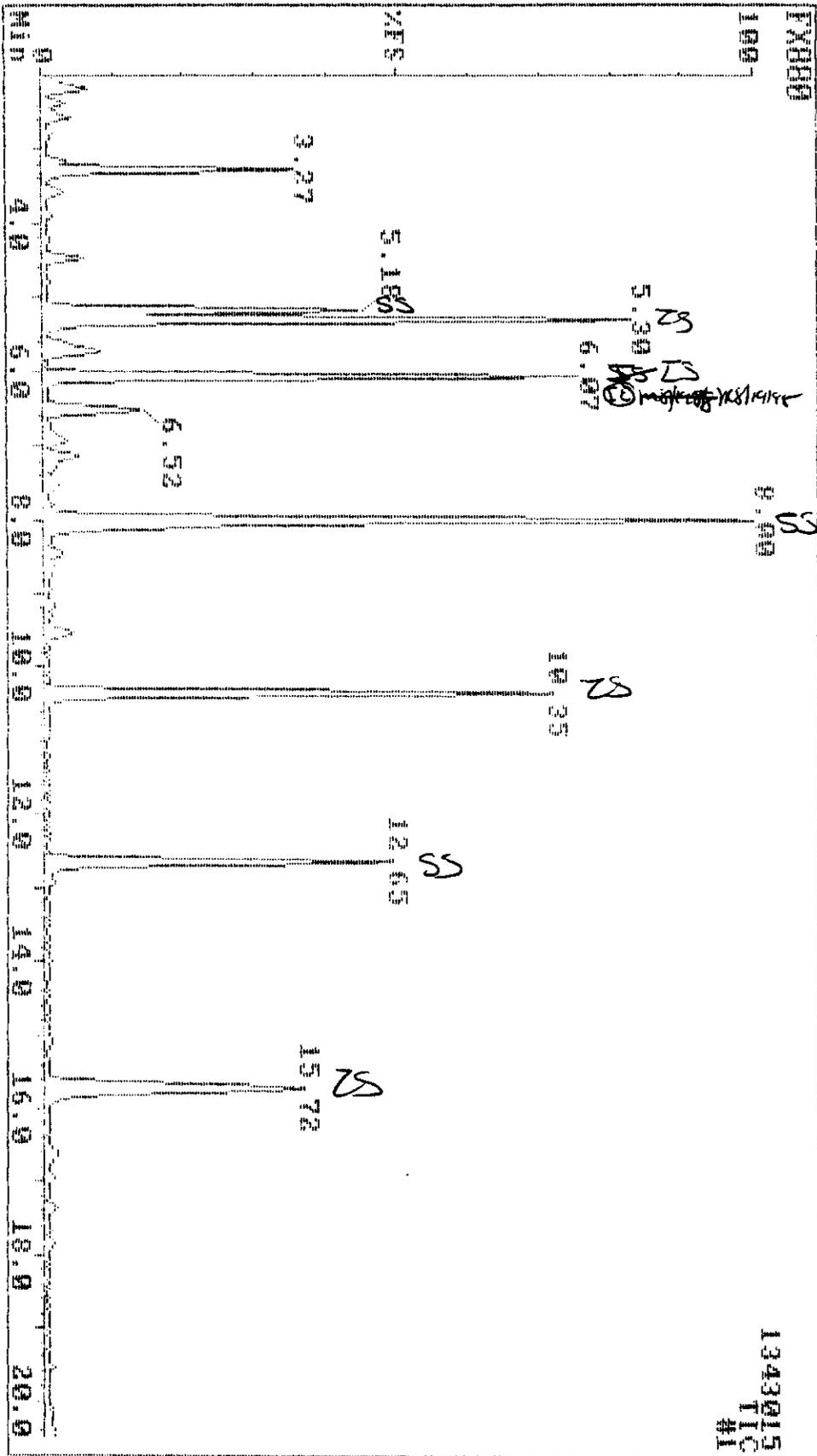
17 Aug 90 17:30

TriAnalyte Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-2-B TO 214-1-78 11446297

Instrument F



1343015  
TIC  
#1

Data Review: *JK*  
Date: 8/19/90

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	79	99	1	2703112	bb	5.301	168	Pentafluorobenzene
2	100	97	99	0	2784596	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	0	2355776	bv	10.551	117	Chlorobenzene-d5
4	100	77	99	0	947784	bv	15.712	152	1,4-Dichlorobenzene-d4
5	100	86	99	0	1120164	bv	5.181	113	Dibromofluoromethane
6	100	91	97	1	3581752	bv	8.001	98	Toluene-d8
7	100	91	93	0	1052804	bv	12.651	95	4-Bromofluorobenzene
8	0	0	0	0	0		0.000	85	Dichlorodifluoromethane
9	91	73	79	2	297728	A	1.090	50	Chloromethane
10	0	0	0	0	0		0.000	62	Vinyl Chloride
11	84	59	85	3	129598	A	1.630	94	Bromomethane
12	0	0	0	0	0		0.000	64	Chloroethane
13	0	0	0	0	0		0.000	101	Trichlorofluoromethane
14	0	0	0	0	0		0.000	96	1,1-Dichloroethane
15	0	0	0	0	0		0.000	142	Iodomethane
16	60	41	57	1	34728	bb	2.780	76	Carbon disulfide
17	64	20	90	3	19264	bv	2.860	43	Acetone
18	0	0	0	0	0		0.000	41	Silyl chloride
19	100	86	95	0	636016	bb	3.270	84	Methylene chloride
20	7	2	10	-4	<del>1278</del>	<del>bb</del>	<del>3.590</del>	FP	55 Acrylonitrile
21	0	0	0	0	0		0.000	96	trans-1,2-Dichloroethane
22	0	0	0	0	0		0.000	63	1,1-Dichloroethane
23	0	0	0	0	0		0.000	43	Vinyl acetate
24	0	0	0	0	0		0.000	77	2,2-Dichloropropane
25	0	0	0	0	0		0.000	96	cis-1,2-Dichloroethane
26	15	13	17	8	<del>6436</del>	<del>bb</del>	<del>4.391</del>	FP	43 2-Butanone
27	0	0	0	0	0		0.000	83	Chloroform
28	0	0	0	0	0		0.000	128	Bromochloromethane
29	0	0	0	0	0		0.000	97	1,1,1-Trichloroethane
30	0	0	0	0	0		0.000	117	Carbon tetrachloride
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene
32	0	0	0	0	0		0.000	78	Benzene
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane
34	0	0	0	0	0		0.000	130	Trichloroethene
35	0	0	0	0	0		0.000	63	1,2-Dichloropropane
36	0	0	0	0	0		0.000	93	Dibromomethane
37	0	0	0	0	0		0.000	41	Methyl methacrylate
38	0	0	0	0	0		0.000	83	Bromodichloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	39	4	62	3	<del>14208</del>	<del>bb</del>	<del>7.271</del>	FP	43 4-Methyl-2-pentanone
41	100	88	98	0	473704	bb	8.091	92	Toluene
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane
44	0	0	0	0	0		0.000	69	Ethyl methacrylate
45	0	0	0	0	0		0.000	164	Tetrachloroethene
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane
47	0	0	0	0	0		0.000	43	2-Hexanone
48	0	0	0	0	0		0.000	129	Dibromochloromethane
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane
50	0	0	0	0	0		0.000	112	Chlorobenzene

Data Review: *YK*  
 Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,2-Tetrachloroethane
52	20	34	34	23	<del>3753</del>	A	<del>0.000</del>	106	Ethylbenzene
53	0	0	0	0	10524	A	10.211	106	m-/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoform
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	83	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.000	120	n-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0		0.000	126	2-Chloro toluene
64	0	0	0	0	0		0.000	126	4-Chloro toluene
65	0	0	0	0	0		0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	119	tert-Butylbenzene
67	0	0	0	0	0		0.000	105	1,1-Dimethylbenzene
68	0	0	0	0	0		0.000	105	sec-Butylbenzene
69	0	0	0	0	0		0.000	119	propylene
70	0	0	0	0	0		0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	91	Benzene chloride
73	0	0	0	0	0		0.000	91	m-Butylbenzene
74	0	0	0	0	0		0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0	0		0.000	180	1,2,4-Trichlorobenzene
77	46	22	57	-3	10468	bb	19.532	225	Hexachlorobutadiene
78	0	0	0	0	0		0.000	138	Naphthalene
79	0	0	0	0	0		0.000	180	1,2,3-Trichlorobenzene

VR 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	79	99	1	2703112	bb	5.301	168	Pentafluorobenzene
2	100	97	99	0	2784596	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	-1	2355776	bv	10.351	117	Chlorobenzene-d5
4	100	77	99	-2	947784	bv	15.712	152	1,4-Dichlorobenzene-d4
5	100	86	99	0	1120164	bv	5.181	113	Dibromofluoromethane
6	100	91	97	0	3581752	bv	8.001	98	Toluene-d8
7	100	91	93	-1	1052804	bv	12.651	95	4-Bromofluorobenzene
8	56	32	64	4	<del>149996</del>	<del>bb</del>	<del>1.158</del>	<del>FP</del>	<del>39 1,3-Butadiene</del>
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	55	38	54	3	<del>9092</del>	<del>bv</del>	<del>3.120</del>	<del>75</del>	<del>MTBE FP</del>
11	76	62	62	2	12408	bb	3.900	57	n-Hexane
12	55	40	61	8	<del>19828</del>	<del>bb</del>	<del>4.178</del>	<del>FP</del>	<del>42 1,2-Epoxybutane</del>
13	63	47	59	3	84596	bv	5.711	<del>FP</del>	57 Iso-Octane
14	43	27	69	12	<del>221956</del>	<del>bb</del>	<del>6.571</del>	<del>FP</del>	<del>55 Ethyl acrylate</del>

m8/19/98

17-Aug-98 17:30

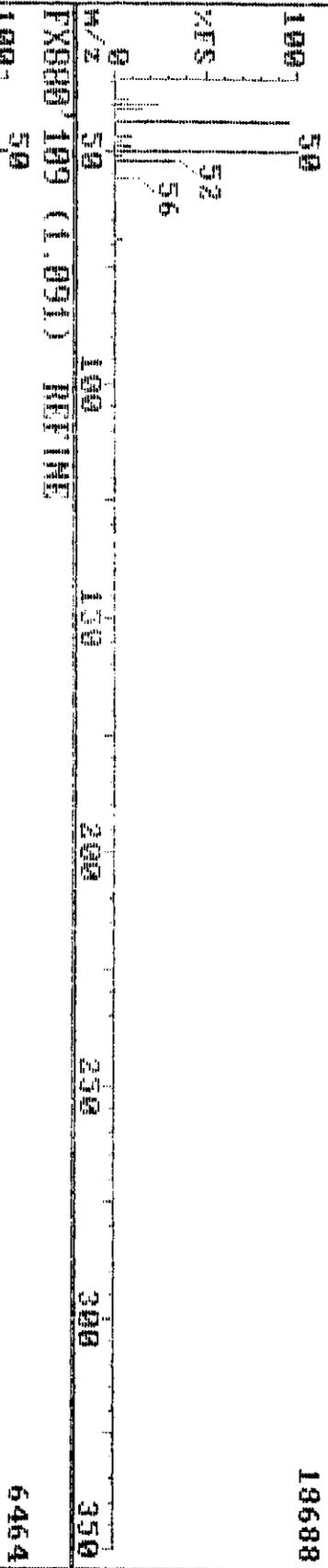
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-V-1-2-B TC 214-1-7F T1146297

Instrument F

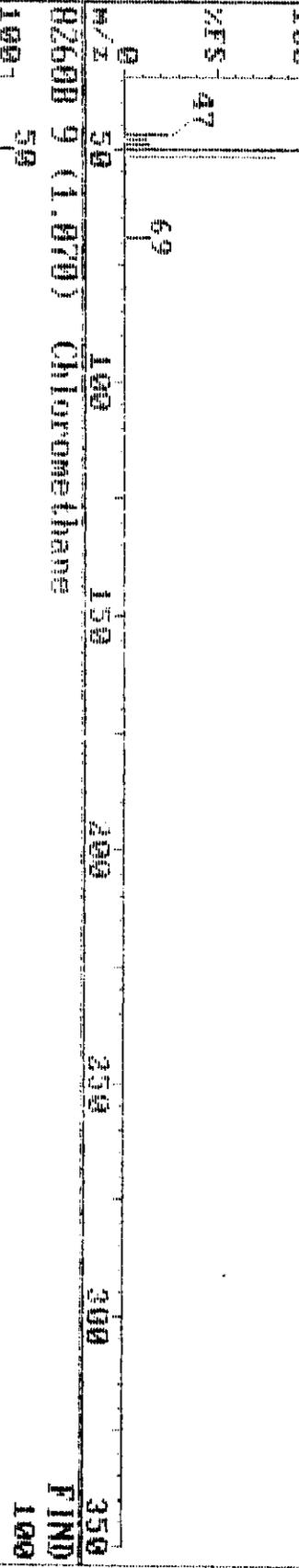
FX800 109 (1.090)

18688



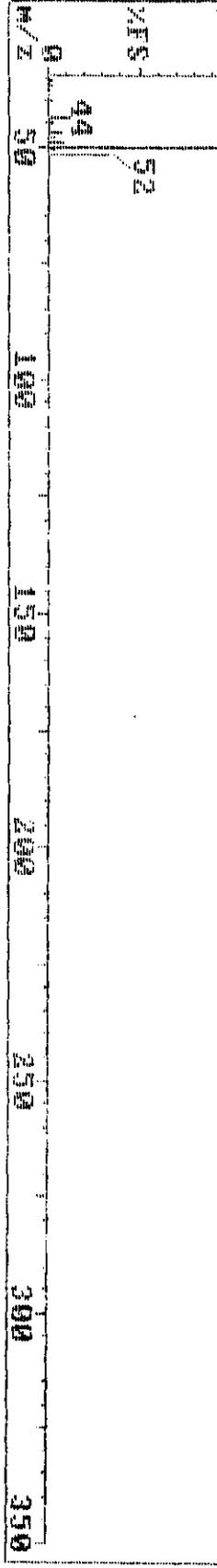
FX800 109 (1.091) REFINE

6464



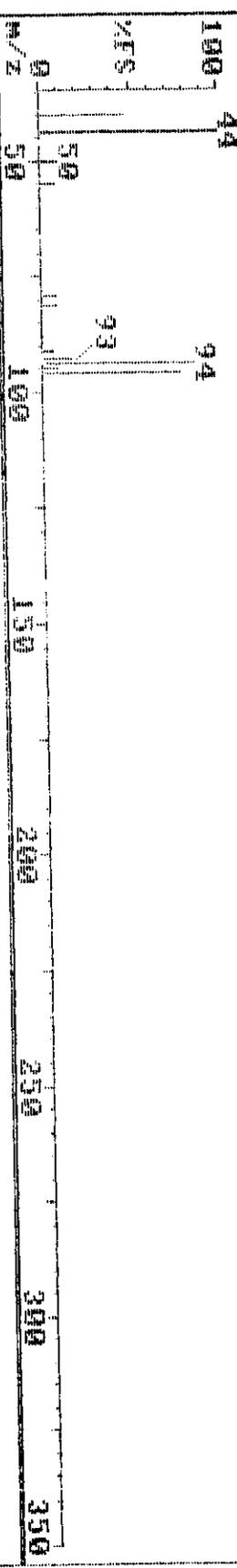
02600 9 (1.070) Chloromethane

FIND 100

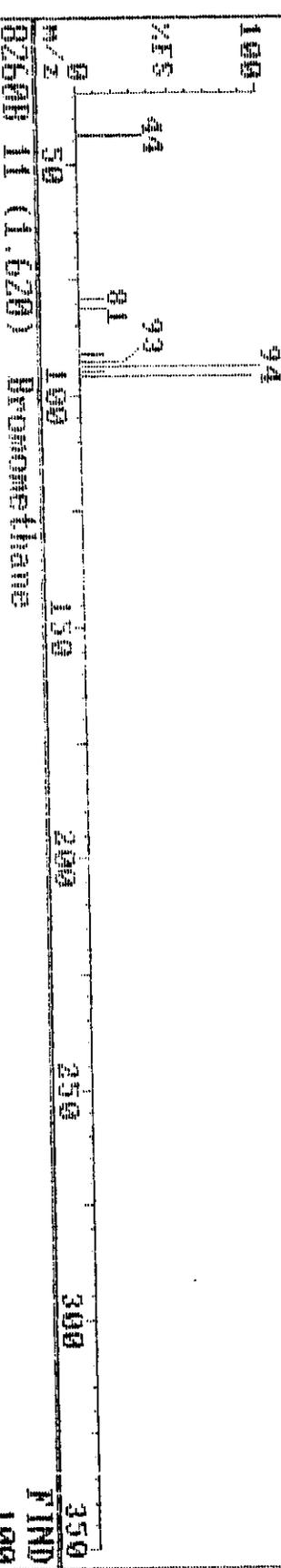


17-Aug-98 17:30 Triangle Laboratories, Inc. (919) 544-5729 Instrument F  
Sample: T-U-1-2-B TC 214-1-7B TLM46297

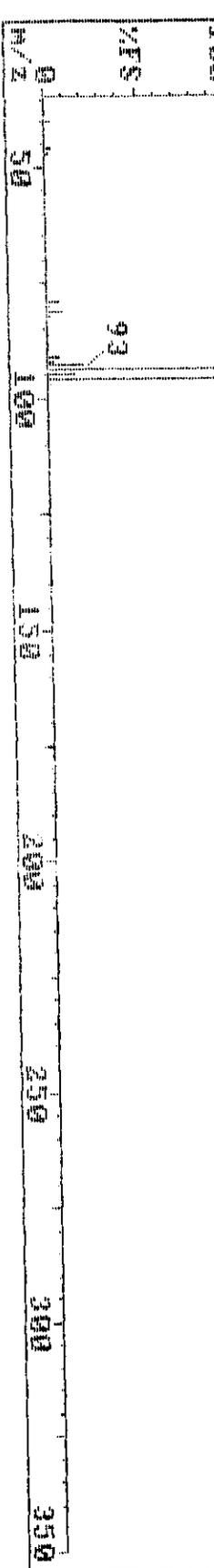
PX800 165 (1.650) 9600



PX800 165 (1.651) REFINE 6090



02600 11 (1.620) Bromomethane FIND 100



17-Aug-98 17:30

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-V-1-2-B TC 24-1-70 TLW46297

Instrument P

FX800 278 (2.700)

100 44 76 7104

M/Z

0 50 100 150 200 250 300 350

FX800 278 (2.781) MEPMIC

100 76 6200

M/Z

0 50 100 150 200 250 300 350

B260H 16 (2.770) Carbon disulfide

100 76 FIND 100

M/Z

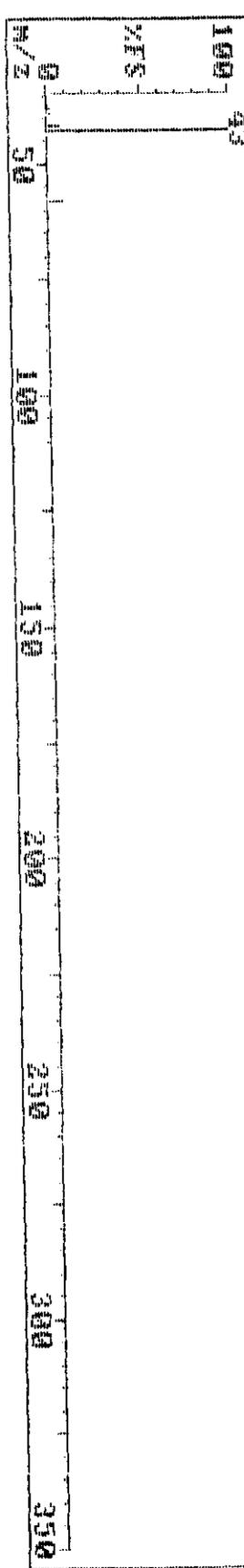
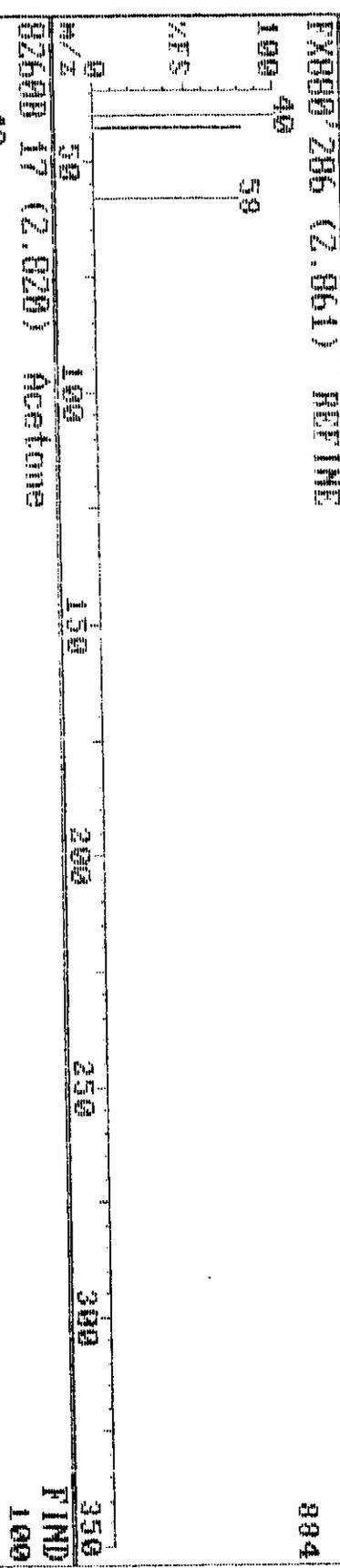
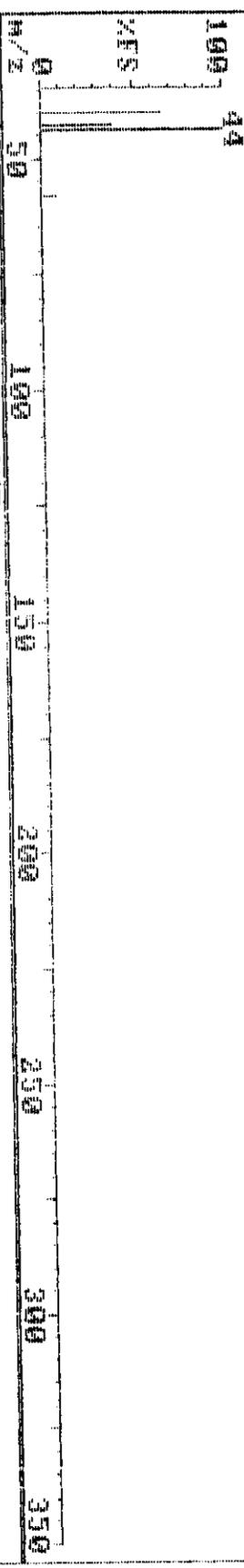
0 50 100 150 200 250 300 350

44 76 127 141

17-Aug-98 17:30 Triangle Laboratories, Inc. (919) 544-5729 Instrument F

Sample: T-U-1-2-B TC 214-1-7B TLH46297

FX880 206 (2.860) 5888

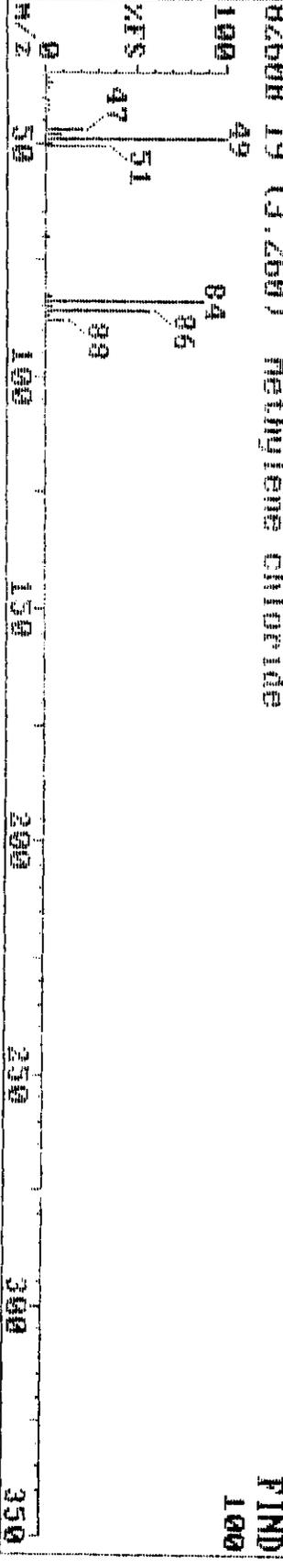
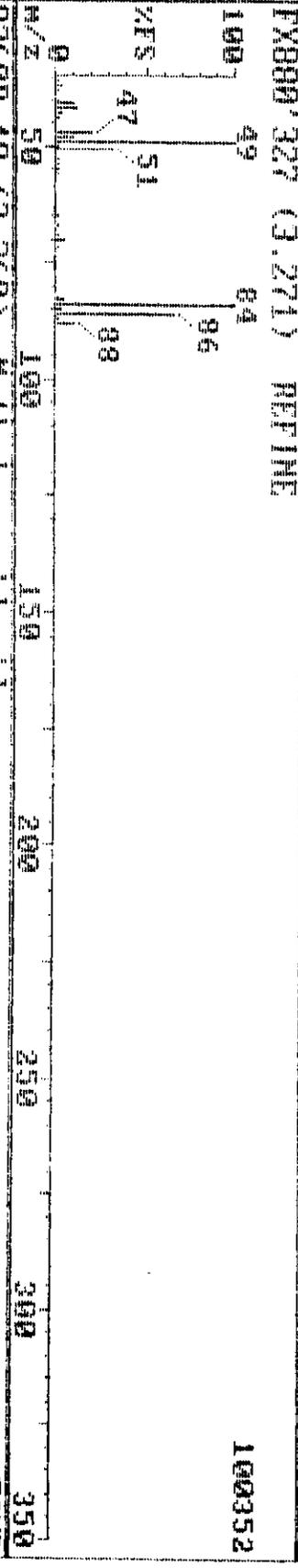
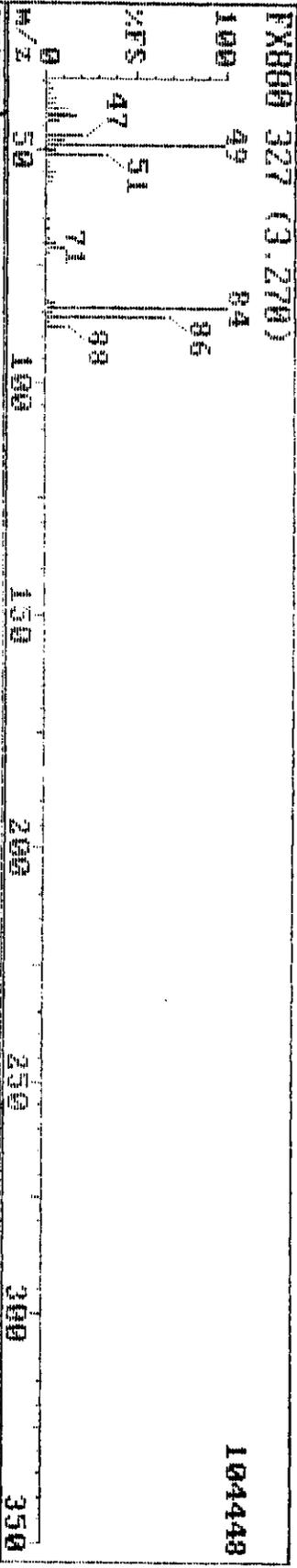


17-Aug-98 17:30

Triangl Laboratories, Inc. (919) 544-5729

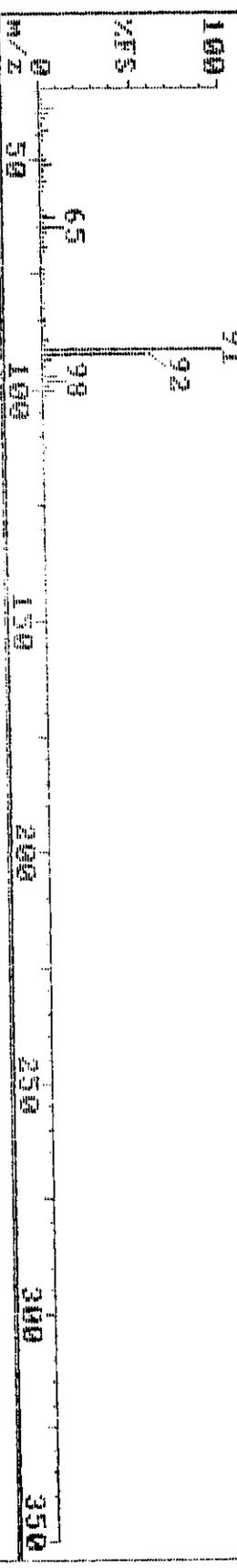
Sample: T-U-1-2-B TO 214-1-7D THH46297

Instrument F

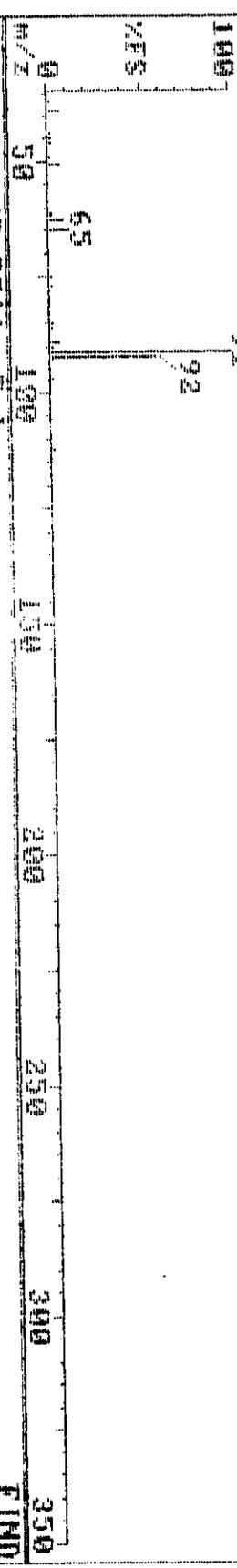


17-Aug-98 17:30 Triang Laboratories, Inc. (919) 544-5729 Instrument F  
Sample: T-4-1-2-B TC 244-1-7D 11146297

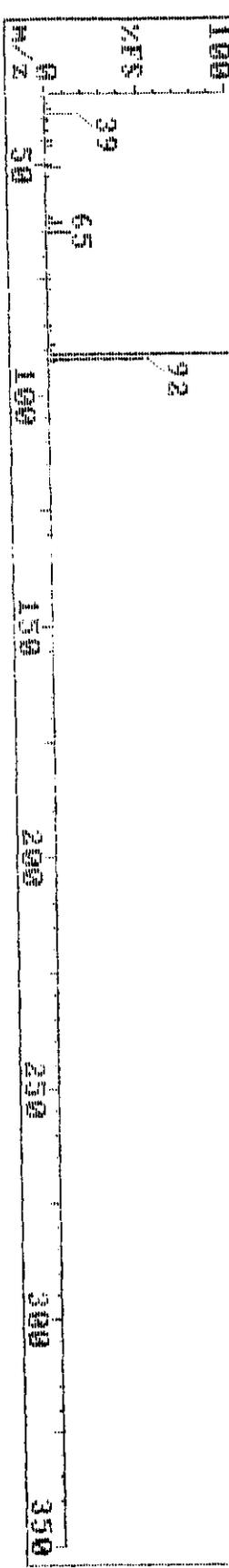
FX000 009 (8.091) 103424



FX000 009 (8.091) TOLUENE 94208



82600 41 (8.001) Toluene FIND 100



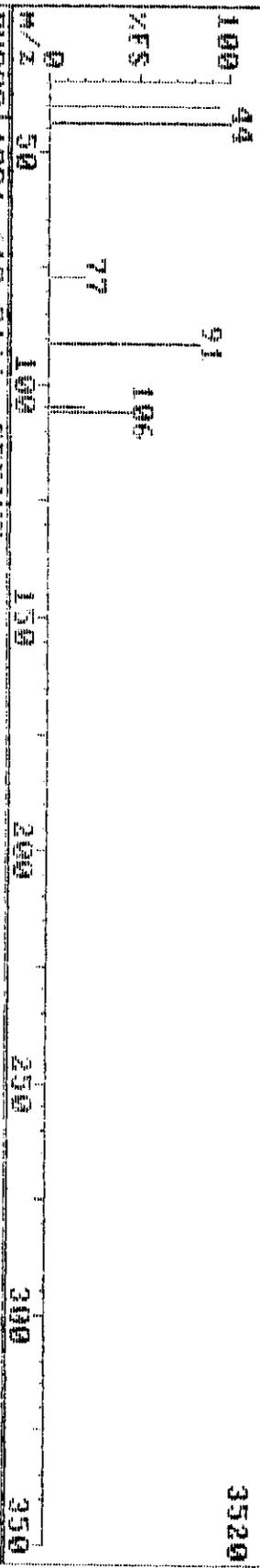
17-Aug-98 17:30

Triangy Laboratories, Inc. (919) 544-5729

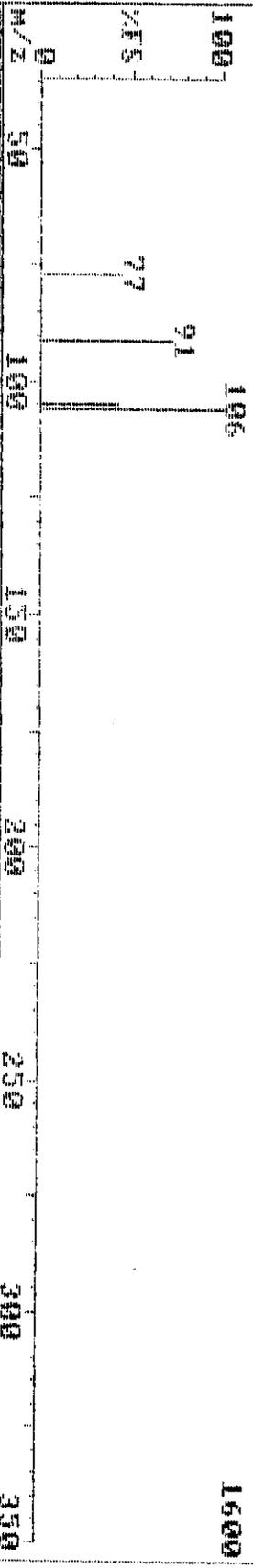
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Instrument F

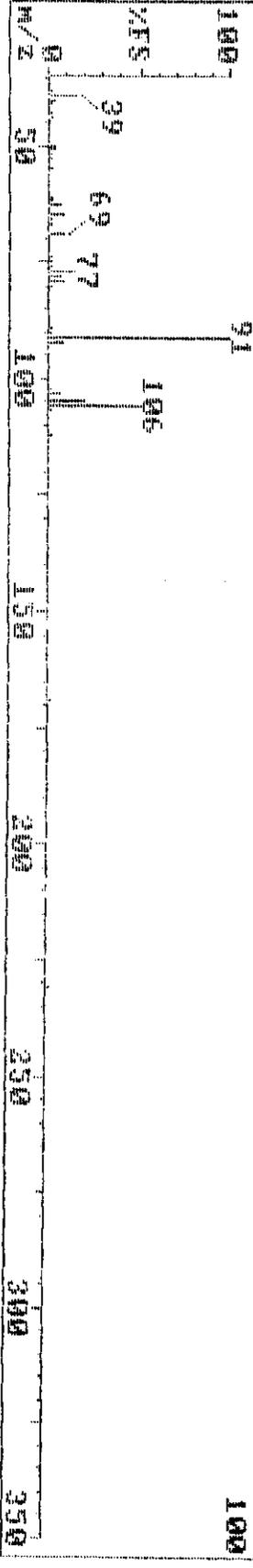
PX800 1091 (10.911)



PX800 1091 (10.911) REFINE



82600 53 (10.961) m-p-Xylene



FIND

100

17-Aug-98 17:30

TriAnaly Laboratories, Inc.

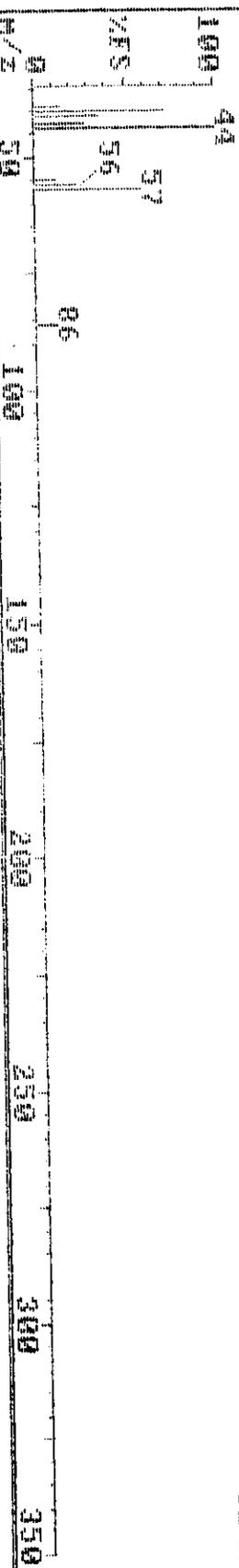
(919) 544-5729

Sample: 10-1-2-B TC 214-1-78 TLW4297

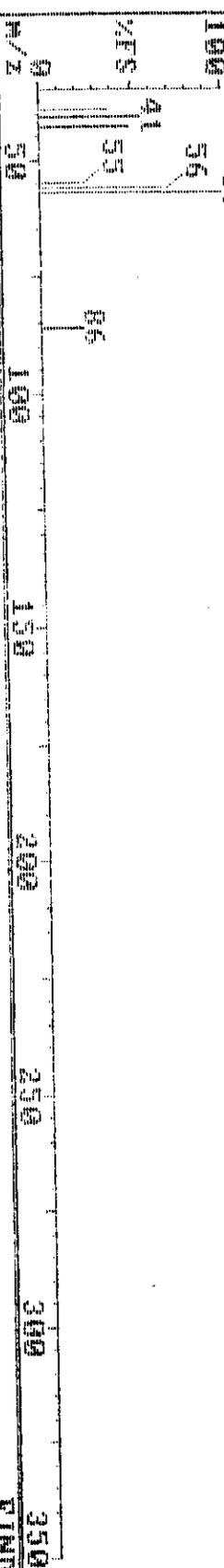
Instrument F

FX000 390 (3.900)

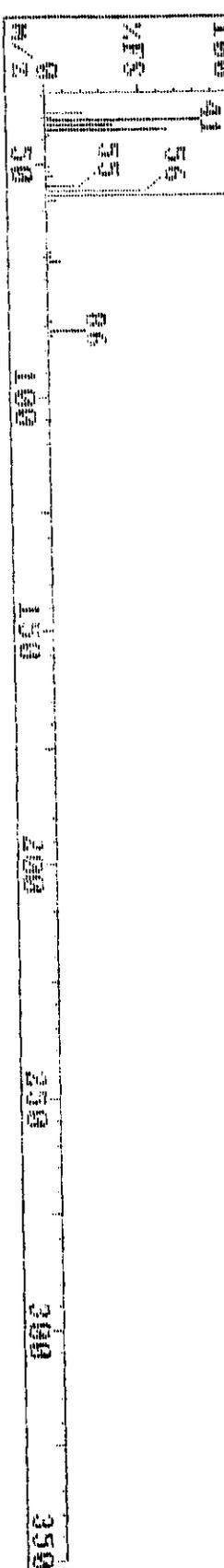
5248



FX000 390 (3.901) RETIME 3104



026BX 11 (3.870) n-Hexane FIND 100



**Pacific Environmental Services**

**Project Number: 46297**

**Sample File: HW713**

**Method 8260 VOST**

**Sample ID: T-V-1-3-A T**

**Client Project: Hotmix**

**TLI ID: 214-1-8A**

**Date Received: 07/25/98**

**Response File: ICALH809**

**Date Analyzed : 08/19/98**

<b>Analyte</b>	<b>Amount ug</b>	<b>FLAG</b>	<b>RT</b>	<b>Det. Limit ug</b>	<b>Quan. Limit ug</b>
Pentafluorobenzene		IS 1	5.05		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.005	J	1.47		0.05
Chloroethane	0.007	J	1.59		0.05
Trichlorofluoromethane	0.009	J	1.89		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.012	J	2.58		0.05
Acetone	0.589		2.73		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.058	B	3.06		0.05
Acrylonitrile		U		0.003	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.509		4.52		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.78		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.516		5.25		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Savar v3.7

Printed: 18:03 08/24/1998

Pacific Environmental Services

Project Number: 46297  
 Sample File: HW713

Method 8260 VOST  
 Sample ID: T-V-1-3-A T

Client Project: Hotmix  
 TLI ID: 214-1-8A

Date Received: 07/25/98

Response File: ICAH809

Date Analyzed : 08/19/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.001	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.455	B	7.76		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>4</sub>		IS 3	10.00		
Tetrachloroethene	0.038	J	8.59		0.05
2-Hexanone		U		0.001	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.105		10.33		0.05
m-/p-Xylene	0.758	B	10.57		0.10
o-Xylene	0.181		11.28		0.05
Styrene		U		0.001	0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.18		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46297  
Sample File: HW713

Method 8260 VOST  
Sample ID: T-V-1-3-A T

Client Project: Hotmix  
TLI ID: 214-1-8A

Date Received: 07/25/98

Response File: ICALH809

Date Analyzed : 08/19/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.258	4.92	1	103
Toluene-d <sub>8</sub>	0.338	7.67	2	135
4-Bromofluorobenzene	0.341	12.29	2	136

Reviewed by VR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Phone: (919) 544-5729 • Fax: (919) 544-5491

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Printed: 18:03 08/24/1998

**Pacific Environmental Services**

Project Number: 46297  
 Sample File: HW713

Method 8260 VOST  
 Sample ID: T-V-1-3-A T

Client Project: Hotmix  
 TLI ID: 214-1-8A

Date Received: 07/25/98

Response File: ICALH819

Date Analyzed : 08/19/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1 High	5.05		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.019	J	3.41		0.25
n-Hexane	0.111	BJ	3.67		0.25
1,2-Epoxybutane		U		0.011	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	5.78		
Ethyl acrylate		U		0.001	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

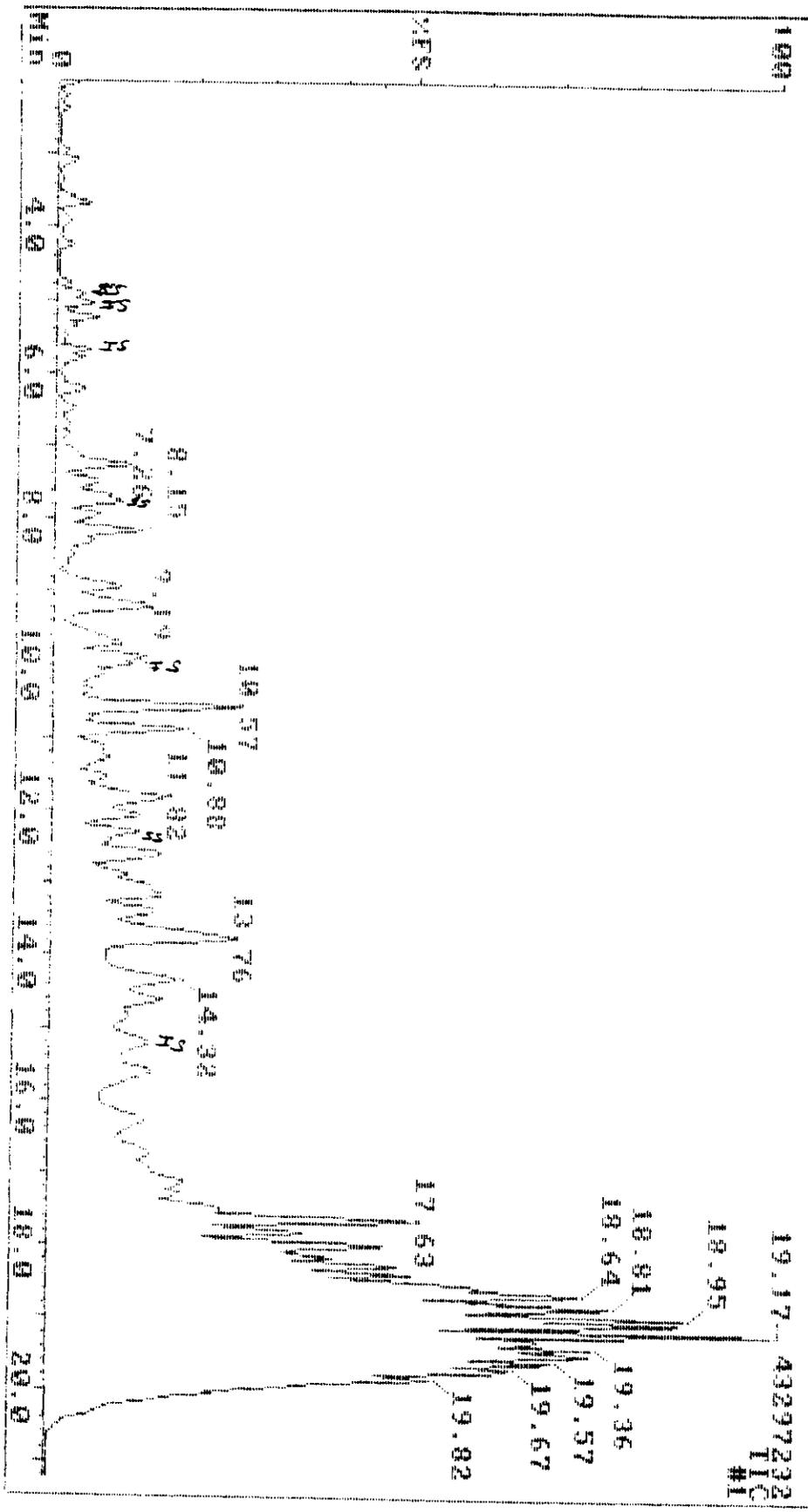
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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98

00-19-99 10:06  
 Sample: 10-1-30 1 2141160 10/14/97  
 10/13  
 Instrument #1



No.	MAT	FOR	REV	Delta	Area	P.F	Flags	RT	QM	Name	
1	99	64	96	1	5884232	bu		5.05	168	Pentafluorobenzene	
2	100	79	9a	0	5448160	bv		5.78	114	1,4-Difluorobenzene	
3	84	59	77	2	5510642	bv		10.00	117	Chlorobenzene-d5	
4	70	25	89	4	5201178	bv		15.18	152	1,4-Dichlorobenzene-d4	
5	100	65	99	0	2133728	bv		4.92	115	Tribromofluoromethane	
6	98	71	89	1	6326356	bb		7.67	98	Octane-d8	
7	73	49	75	2	5834592	vv		12.29	95	4-Bromofluorobenzene	
8	0	0	0	0	0			0.00	85	Dichlorodifluoromethane	
9	0	0	0	0	0			0.00	50	Chloromethane	
10	0	0	0	0	0			0.00	62	Vinyl Chloride	
11	95	70	90	-2	31540	bb		1.47	94	Bromomethane	
12	61	32	71	-3	29444	bb		1.52	64	Chloroethane	
13	92	64	94	-2	641896	bb		1.89	101	Trichlorofluoromethane	
14	0	0	0	0	0			0.00	126	1,1-Dichloroethane	
15	0	0	0	0	0			0.00	142	Iodomethane	
16	74	40	81	-1	190980	bb		2.53	76	Carbon tetrachloride	
17	97	82	92	5	457469	vv		2.73	47	Acetone	
18	0	0	0	0	0			0.00	41	Acetyl chloride	
19	0	0	0	0	31673	vm		4.17	306	Methylacetyl chloride	
20	98	10	38	-4	<del>31673</del>	<del>vm</del>		4.17	FP	55	Acrylonitrile
21	0	0	0	0	0			0.00	126	1,1-Dichloroethane	
22	0	0	0	0	0			0.00	50	Chloromethane	
23	0	0	0	0	0			0.00	37	Vinyl chloride	
24	0	0	0	0	0			0.00	77	1,2-Dichloropropane	
25	0	0	0	0	0			0.00	76	cis-1,2-Dichloroethane	
26	100	80	96	2	497917	bv		1.12	45	2-Pentanone	
27	0	0	0	0	0			0.00	83	Bromochloromethane	
28	0	0	0	0	0			0.00	128	Bromodichloromethane	
29	0	0	0	0	0			0.00	95	1,1,1-Trichloroethane	
30	0	0	0	0	0			0.00	117	Carbon tetrachloride	
31	0	0	0	0	0			0.00	75	1,1-Dichloropropene	
32	100	97	99	1	8344602	bv		3.25	72	Benzene	
33	0	0	0	0	0			0.00	62	1,2-Dichloroethane	
34	0	0	0	0	0			0.00	130	Trichloroethane	
35	0	0	0	0	0			0.00	63	1,2-Dichloropropane	
36	0	0	0	0	0			0.00	93	Dibromomethane	
37	42	44	56	-14	<del>1275584</del>	<del>bu</del>		6.42	FP	41	Methyl methacrylate
38	0	0	0	0	0			0.00	83	Bromodichloromethane	
39	0	0	0	0	0			0.00	75	cis-1,2-Dichloropropene	
40	50	23	63	-3	<del>421264</del>	<del>bb</del>		7.68	FP	43	4-Methyl-2-pentanone
41	100	88	99	0	6375234	bb		7.76	92	Toluene	
42	0	0	0	0	0			0.00	78	trans-1,3-Dichloropropene	
43	0	0	0	0	0			0.00	97	1,1,2-Trichloroethane	
44	0	0	0	0	0			0.00	49	Ethyl methacrylate	
45	71	63	80	0	321832	bu		8.59	164	Tetrachloroethene	
46	0	0	0	0	0			0.00	76	1,3-Dichloropropane	
47	44	26	67	-10	<del>4838888</del>	<del>bv</del>		8.92	FP	43	2-Hexanone
48	0	0	0	0	0			0.00	129	Dibromochloromethane	
49	0	0	0	0	0			0.00	107	1,2-Dibromoethane	
50	0	0	0	0	0			0.00	112	Chlorobenzene	

Data Review: *YM*  
 Date: *8/19/08*

No.	MAT	FOR	REV	Delta	Area	P. Flags	RT	QM	Name
51	0	0	0	0	0		0.00	131	1,1,1,2-Tetrachloroethane
52	88	57	88	-1	1249020	bv	10.33	106	Ethylbenzene
53	100	74	71	-1	11298750	vv	10.57	106	m,p-Xylene
54	92	64	87	0	2551878	vv	11.23	106	o-Xylene
55	0	0	0	0	0		0.00	104	Styrene
56	0	0	0	0	0		0.00	173	Bromoform
57	0	0	0	0	0		0.00	105	Cumene
58	0	0	0	0	0		0.00	83	1,1,1,2-Tetrachloroethane
59	0	0	0	0	0		0.00	156	Bromobenzene
60	0	0	0	0	0		0.00	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.00	120	n-Propylbenzene
62	0	0	0	0	0		0.00	75	trans-1,4-Dichloro-2-but
63	0	0	0	0	0		0.00	126	2-Chlorotoluene
64	0	0	0	0	0		0.00	126	4-Chlorotoluene
65	41	51	72	-24	12849120	vv	13.18	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119	tert-Butylbenzene
67	96	59	95	0	13821780	vi	14.33	105	1,2,4-Trimethylbenzene
68	39	10	55	-2	1274490	lv	14.55	105	sec-Butylbenzene
69	65	31	71	1	6726094	P	15.45	119	p-Xylene
70	0	0	0	0	0		0.00	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91	sec-Butyltoluene
73	0	0	0	0	0		0.00	91	n-Butylbenzene
74	0	0	0	0	0		0.00	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75	1,2-Dichloro-3-chloropropr
76	0	0	0	0	0		0.00	180	1,2,3-Trichlorobenzene
77	0	0	0	0	0		0.00	295	Hexachlorobutadiene
78	0	0	0	0	0		0.00	103	Methylcyclopentane
79	0	0	0	0	0		0.00	130	1,2,3-Trichlorobenzene

YR 8/19/98

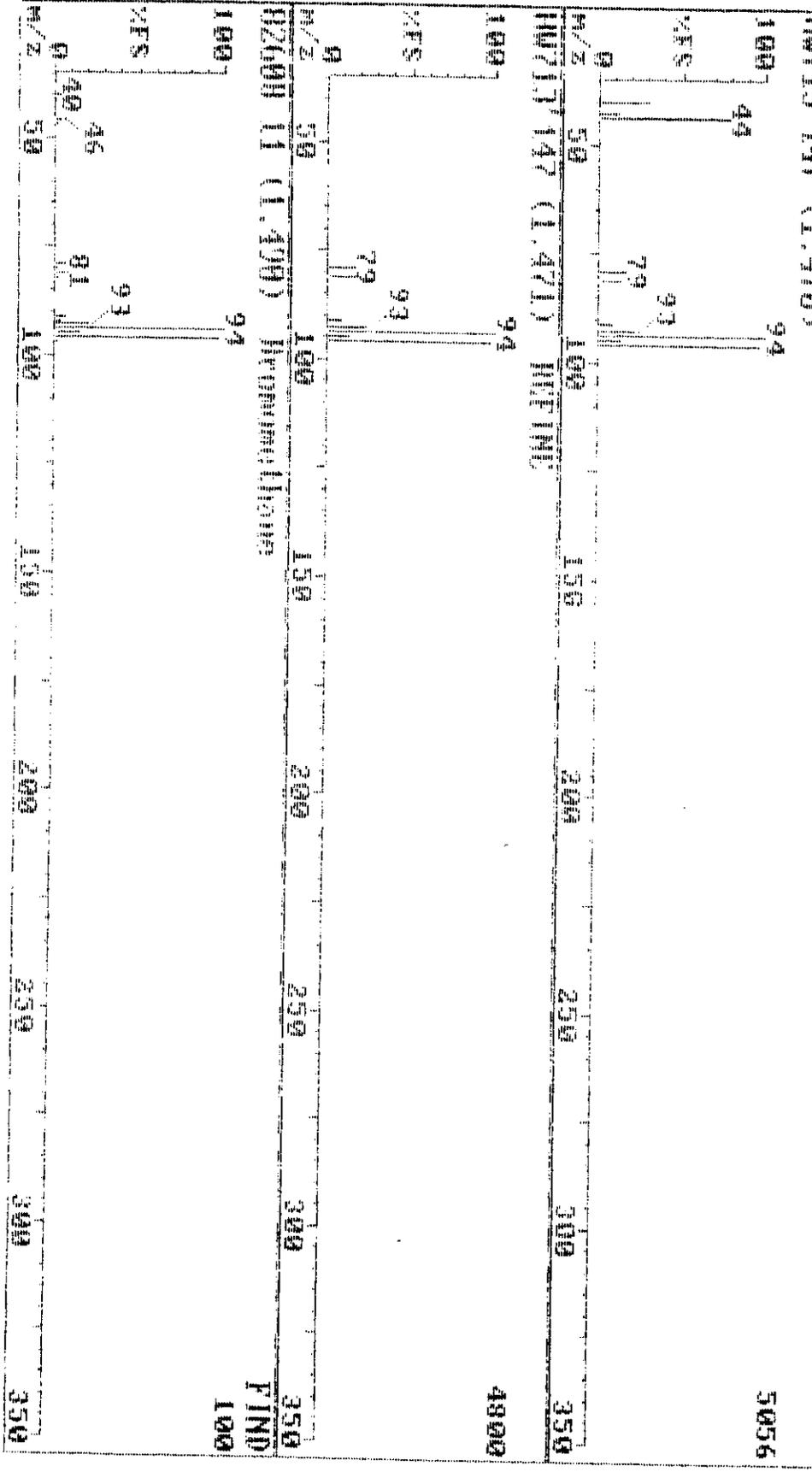
No.	MAT	FOR	REV	Delta	Area	P	Flags	RT	QM	Name
1	99	64	96	1	3884272	bb		5.05	168	Pentafluorobenzene
2	100	79	94	1	3448160	bv		5.73	114	1,4-Difluorobenzene
3	34	59	77	2	3510642	bv		60.00	117	Chlorobenzene-d5
4	69	25	89	7	3201178	bv		15.13	152	1,4-Dichlorobenzene-d4
5	98	63	99	1	2133708	bv		4.92	113	Dibromofluoromethane
6	100	71	89	0	6326836	ob		7.67	98	Toluene-d8
7	39	49	75	4	3834592	vv		12.29	95	4-Bromofluorobenzene
8	66	43	74	6	<del>113760</del>	<del>vv</del>		<del>1.17</del>	<del>FP</del>	<del>1,3-Butadiene</del>
9	0	0	0	0	0			0.00	106	Vinyl bromide
10	93	72	79	0	90320	bv		5.41	73	MTBE
11	100	97	100	0	3996291	vv		5.67	57	n-Hexane
12	82	59	75	-2	<del>416072</del>	<del>bv</del>		<del>1.21</del>	<del>FP</del>	<del>1,2-Epoxybutane</del>
13	70	51	64	1	<del>212085</del>	<del>vt</del>		<del>1.17</del>	<del>FP</del>	<del>Pro-Octane</del>
14	41	30	69	-14	<del>1733296</del>	<del>bv</del>		<del>2.27</del>	<del>FP</del>	<del>Ethyl acetate</del>

MC8119188

01-19-95 10:06 Triang Laboratories, Inc. (313) 544-5720

Sample: T-0-1-3-A T 24-1-00 11846297

Instrument H



09-19-90 10:06

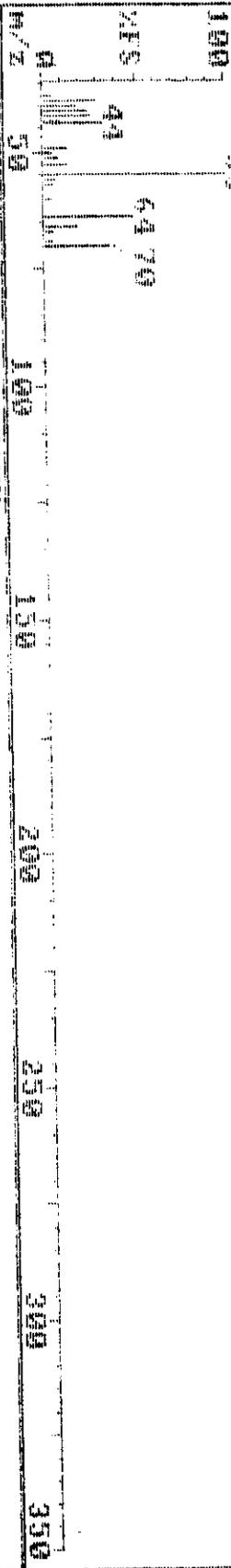
Triante Laboratories, Inc. (919) 644-5720

Sample: T-V-1-37

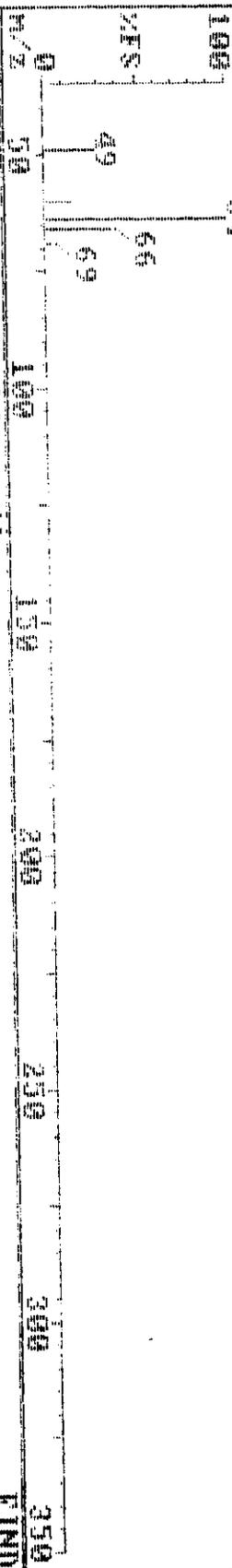
T 214-100 T1146297

Instrument H

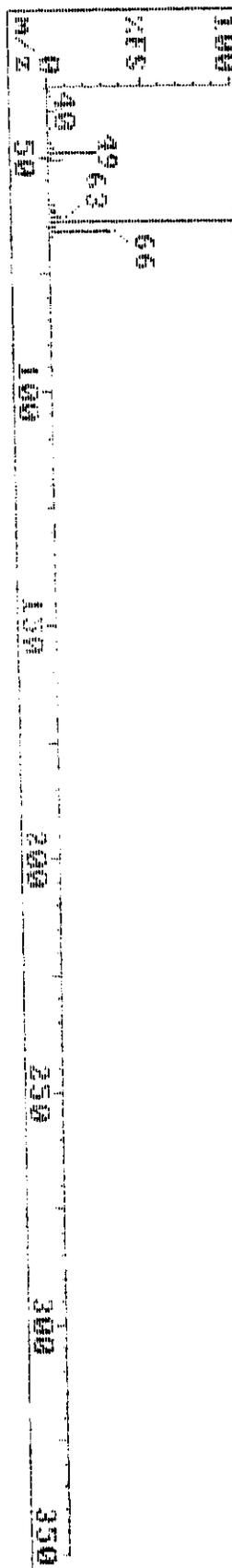
11392



5632

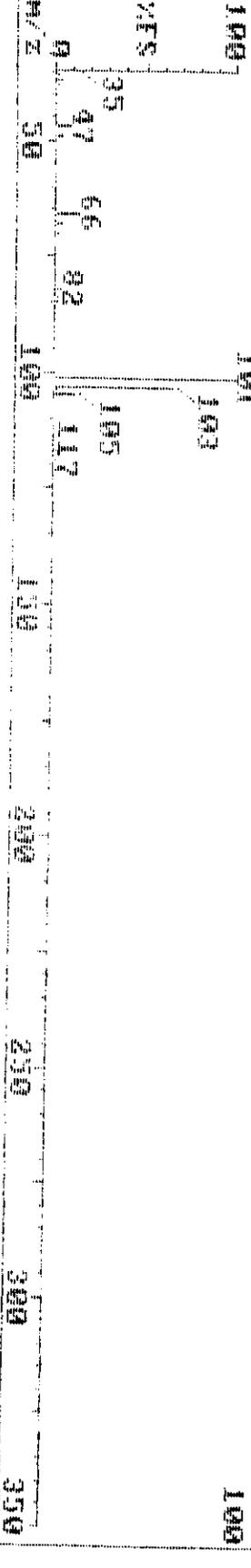
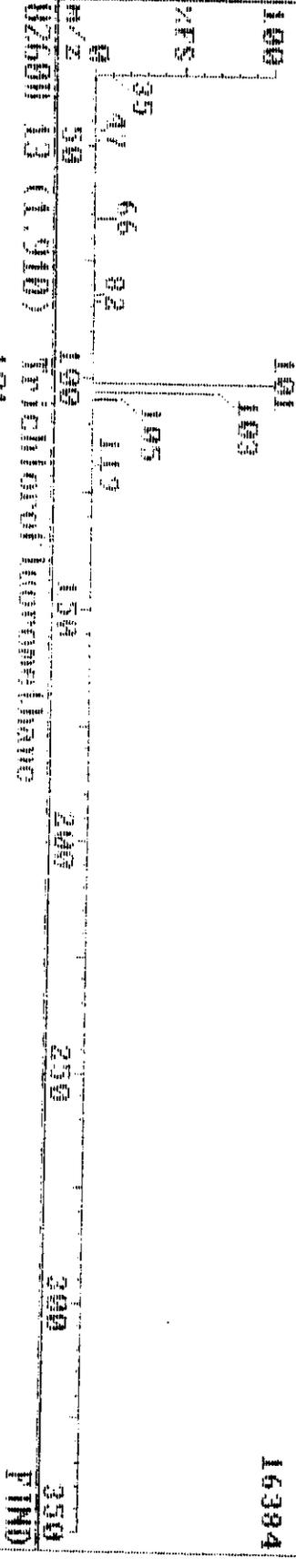
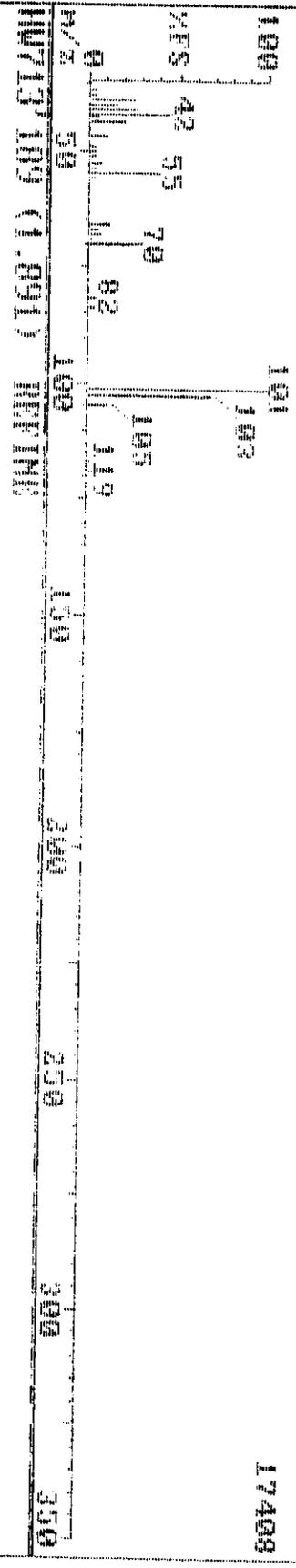


100



100

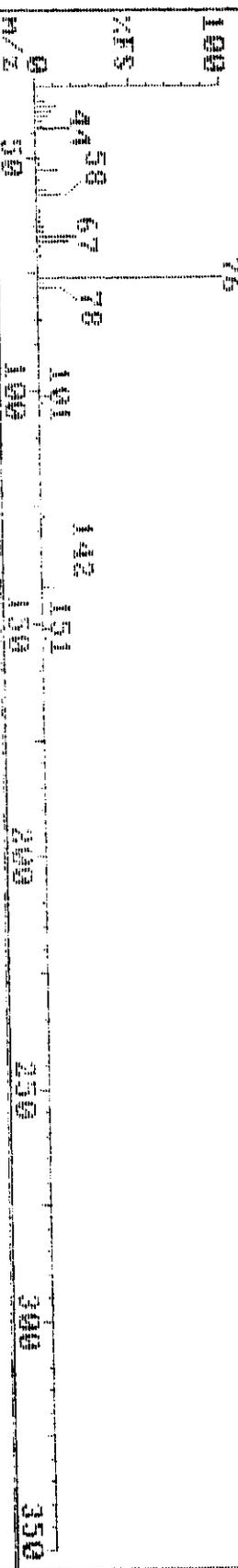
00-19-90 10:06 Triangle Laboratories, Inc. (919) 544-5729  
 Sample: T-1-1-37A T 211-00 T146297 Instrument H  
 MW13 109 (1.000)



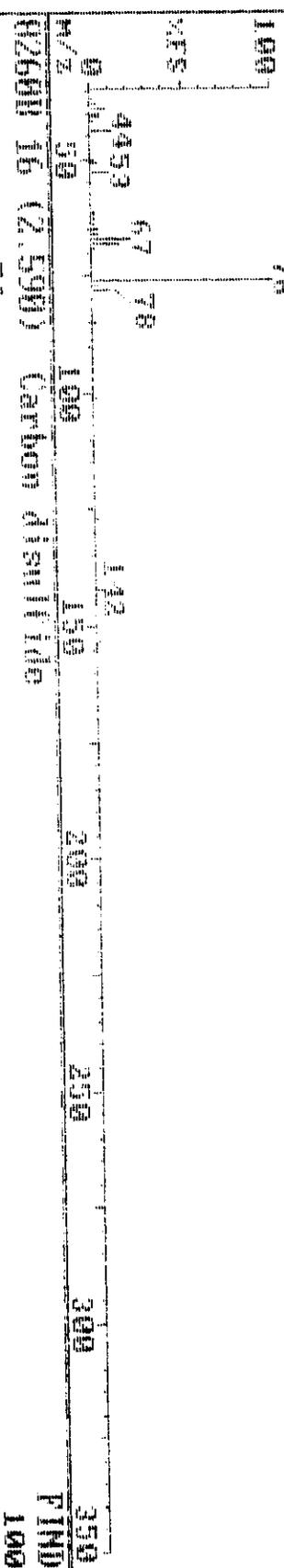
09-19-98 10:06 Triang Laboratories, Inc. (910) 544-5779 Instrument II

Sample: T-U-13-A T 214-150 TMM4297

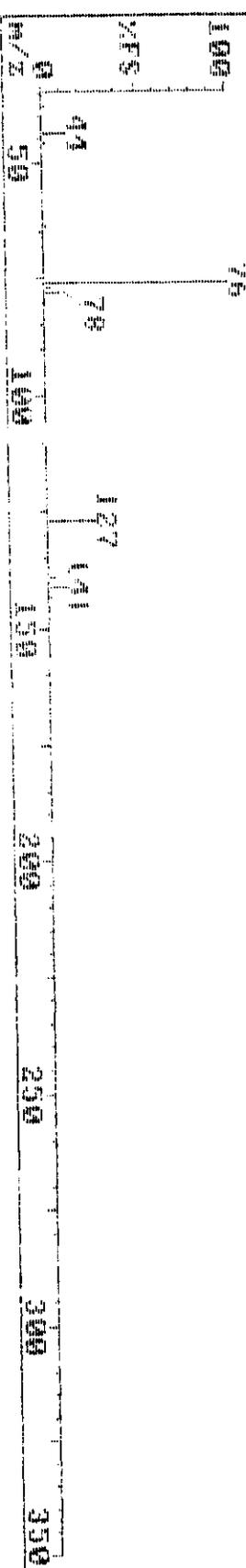
HW713 250 (2.500) 36096



35584



FIND 100



00-19-90 10:06

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-1-3-A 1 244-1-M T1146297

Instrument 11

HW13 273 (2.730)

100 43 39680

M/S 44 59

0 50 100 150 200 250 300 350

HW13 273 (2.731) (M/TIME)

100 43 27136

M/S 58 57 59

0 50 100 150 200 250 300 350

02600 17 (2.670) (M/TIME)

100 43 F1ND 100

M/S 59

0 50 100 150 200 250 300 350

M/Z 50 100 150 200 250 300 350

19-Aug-98 10:06

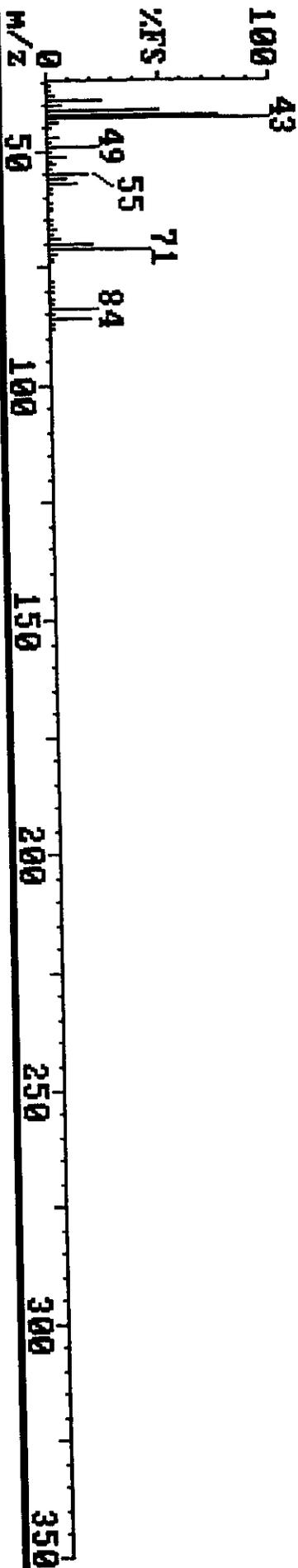
Triangle Laboratories, Inc. (919) 544-5729

Instrument H

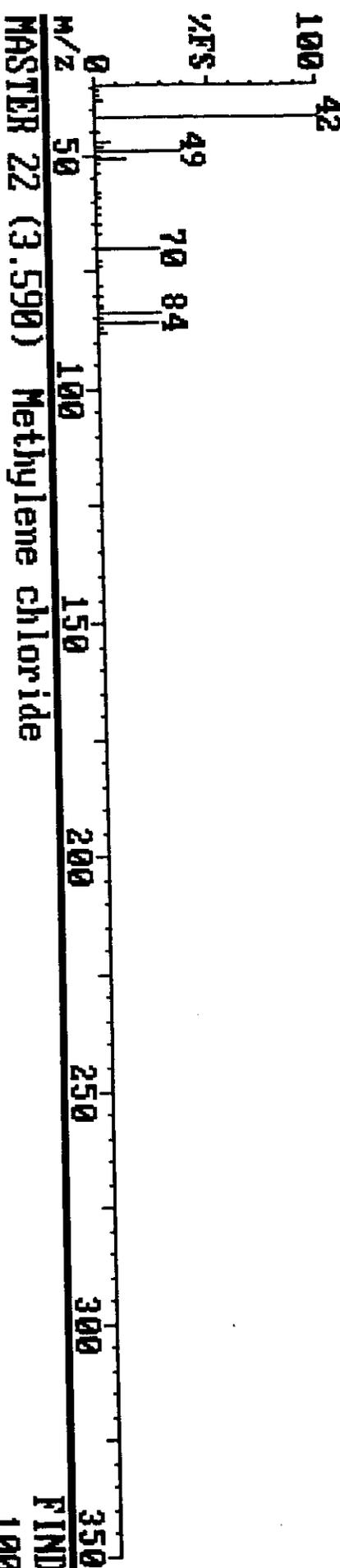
Sample: T-U-1-3-A T 214-1-8A TL#46297

HW713 306 (3.060)

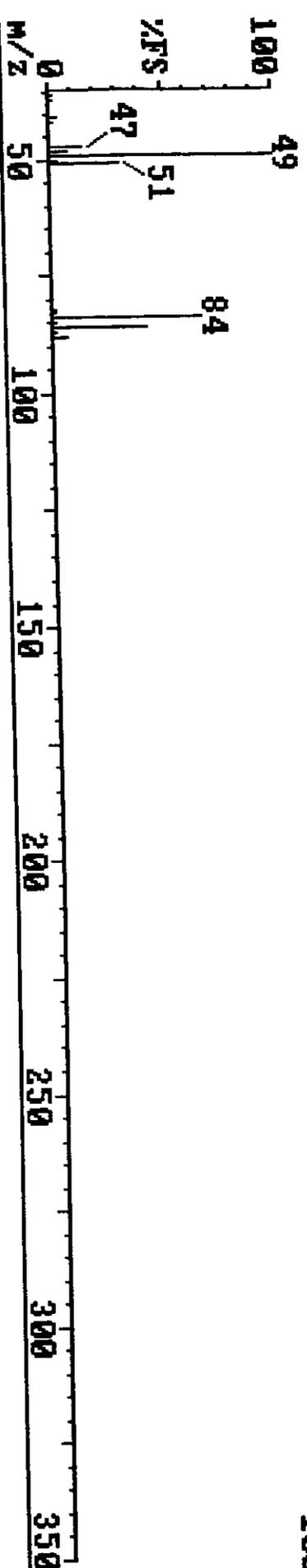
229376



HW713 306 (3.061) REFINE 134144



FIND 100



00-14-98 10:06 Toluene Laboratories, Inc. (019) 544-5720

Sample: T-4-3-A I 21-1-00 TH40797 Instrument H

HW713 452 (4.521)

100 43 63232

MFS 57 72

M/Z 50 100 150 200 250 300 350

HW713 452 (4.521) MW111

100 43 54016

MFS 57 72

M/Z 50 100 150 200 250 300 350

026011 26 (4.190) 7-Minimum

100 43 FTND 100

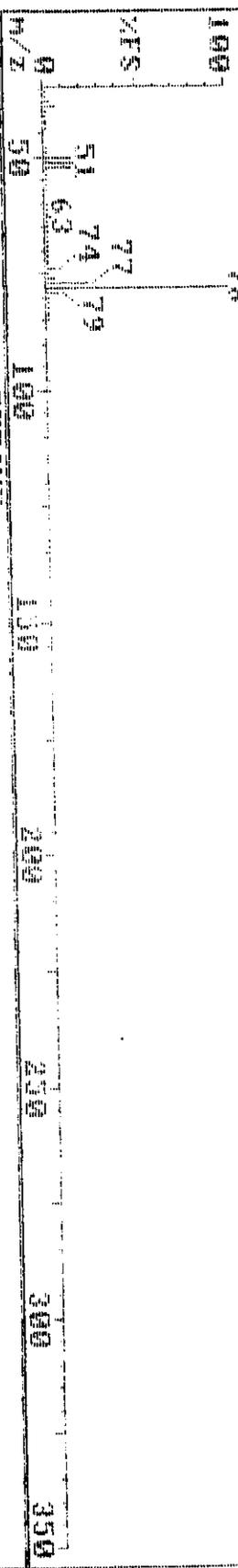
MFS 44 57 72 73

M/Z 50 100 150 200 250 300 350

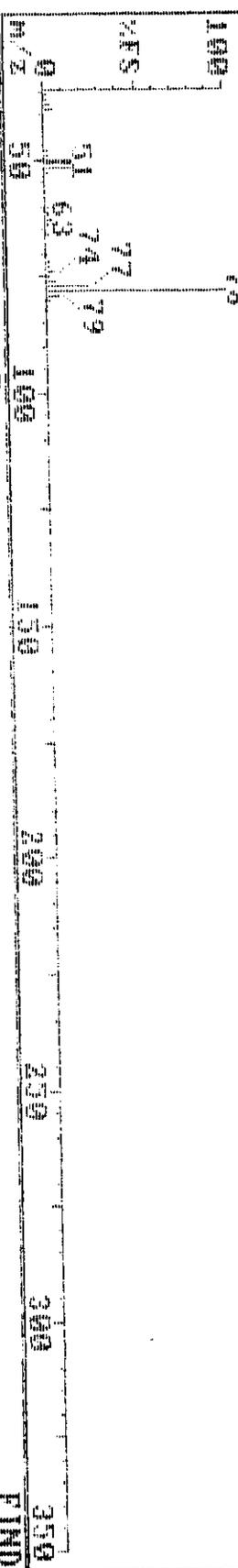
00-19-90 10:06 Triawle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-13-7 T 214-1-M 1146797

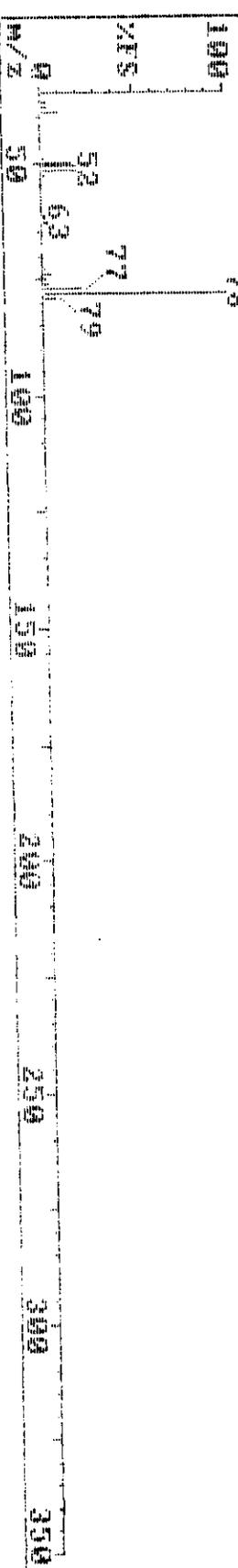
MW713 575 (5.251) 1196032



MW713 575 (5.251) REFINE 1130496



02600 32 (5.231) Benzene FIND 100

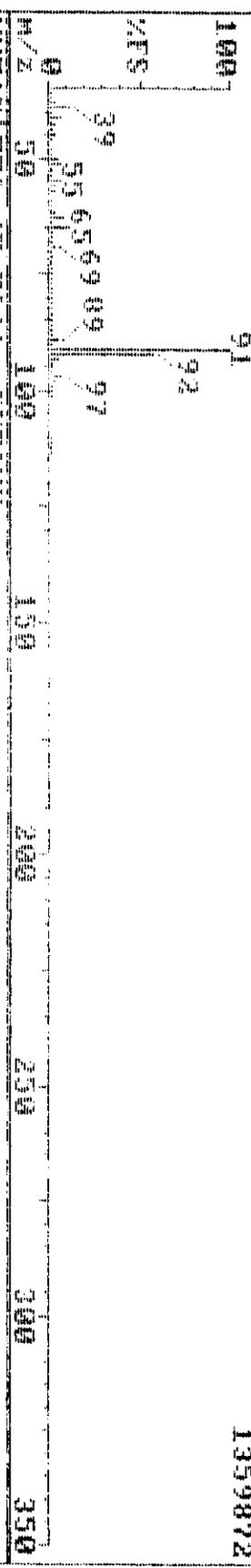


08-19-90 10:06 Triump Laboratories, Inc. (919) 544-5729

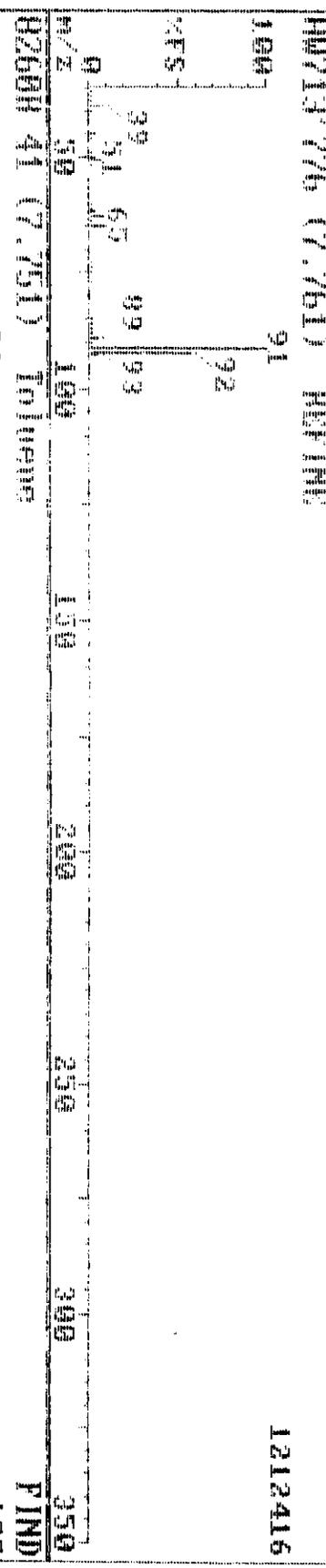
Sample: T-U-1-3-A T 214-10A TH4027? Instrument H

HW713 776 (7.761)

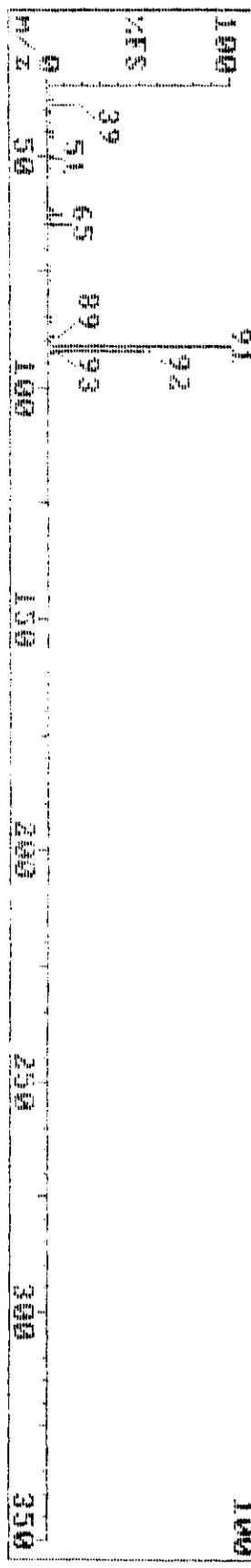
1359872



1212416



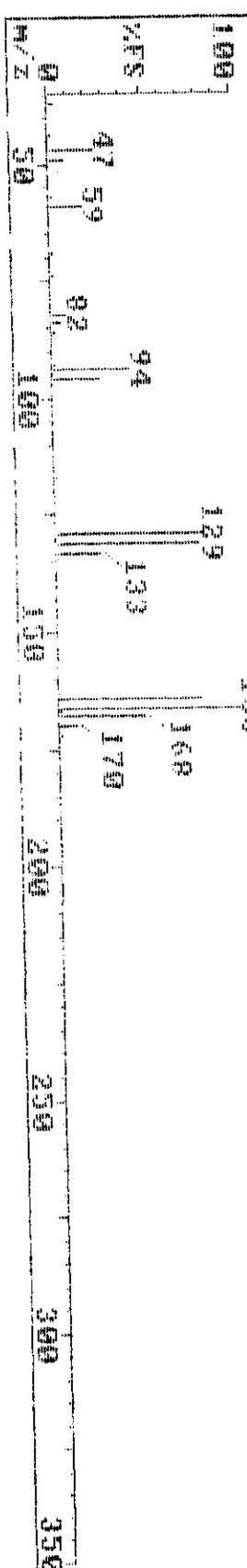
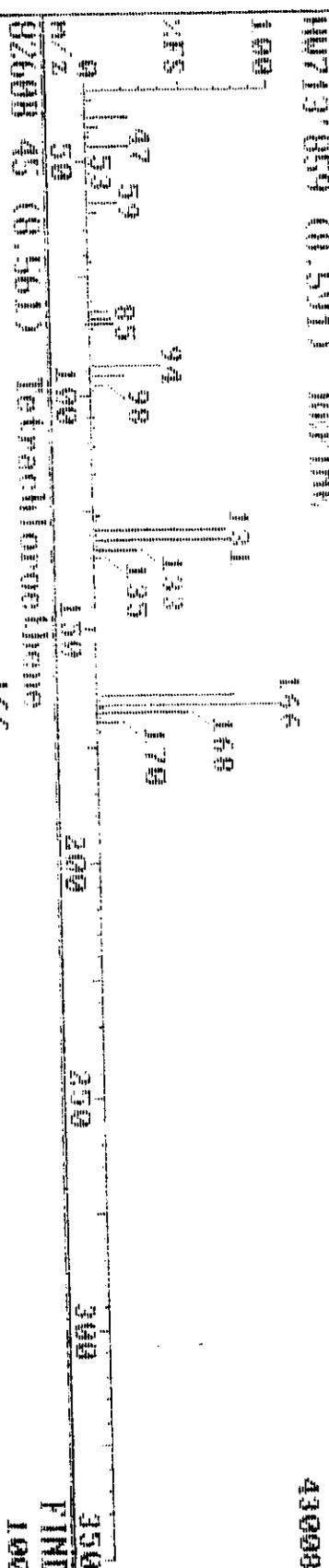
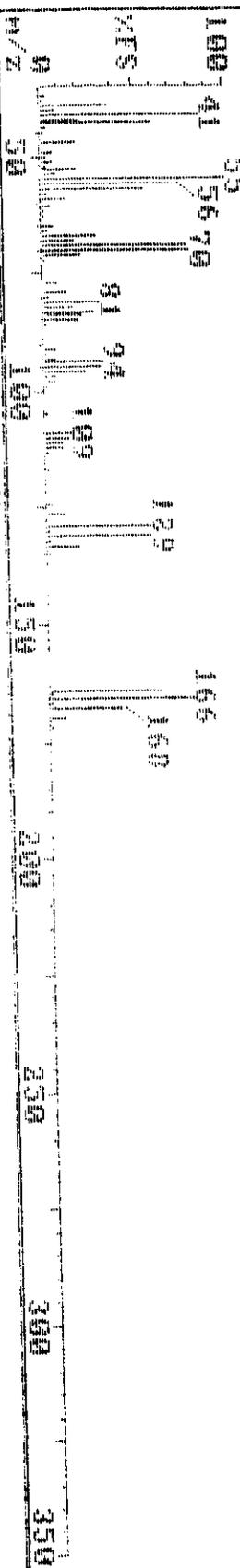
FIND 100



00-10-98 16:26 Pinnacle Laboratories, Inc. (910) 544-5720 Instrument H

Sample: T-U-1-3-A 1 214-140 HM0207

HM713 69 (0.501) 62464



00-19-98 10:00

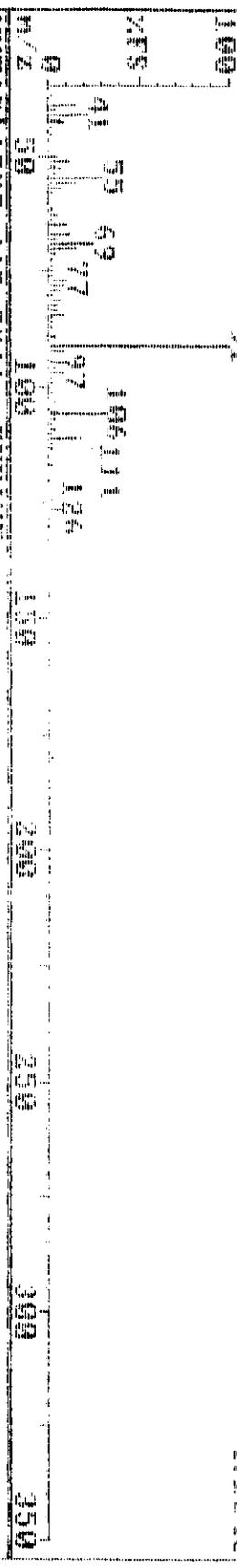
Trihydro Laboratories, Inc. (919) 944-5720

Sample: 19-1-31A I 24-100 1146297

Instrument 11

H0713 1033 (10.311)

471049



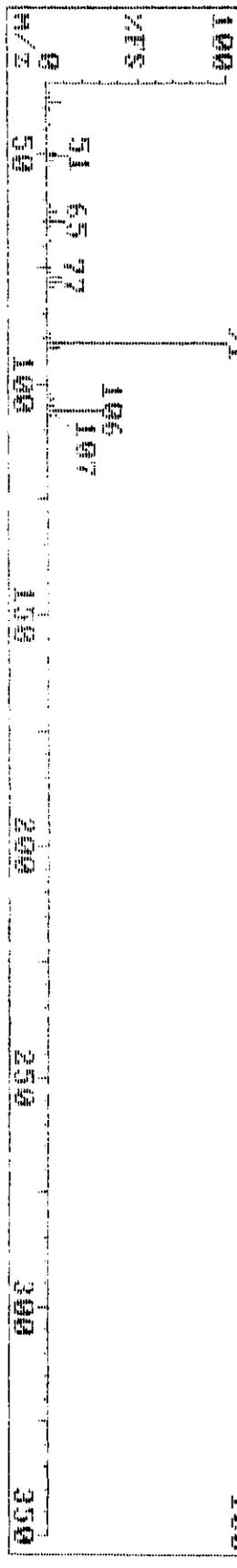
H0713 1033 (10.311) MRM

393216



H02600 92 (10.311) MRM

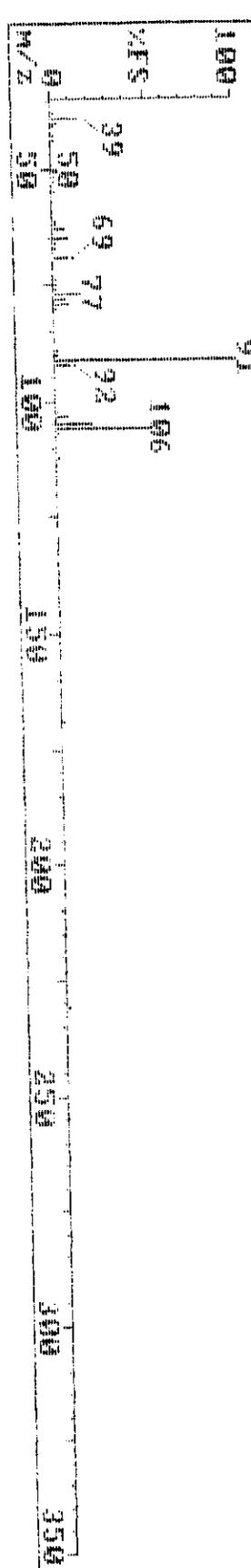
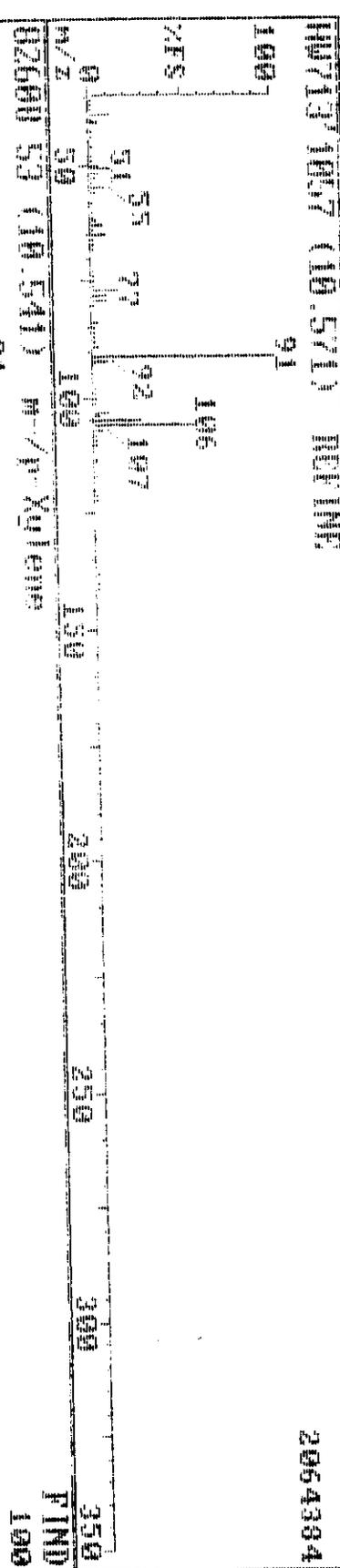
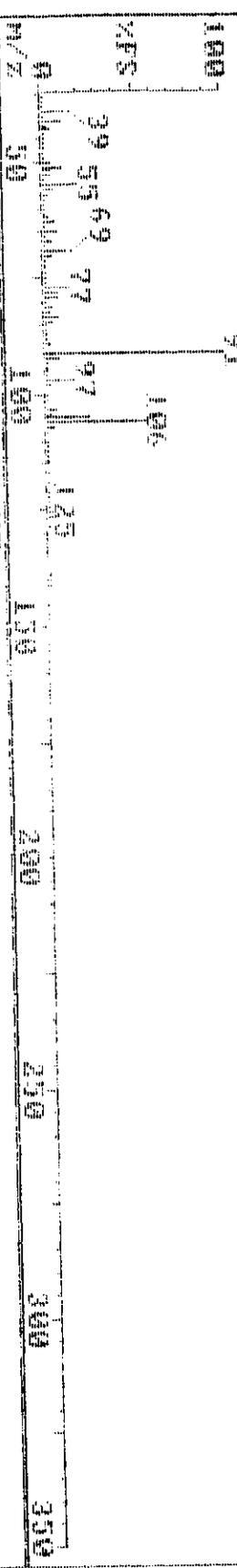
FIND 100



90-19-90 10:06 Triunfo Laboratories, Inc. (919) 544-9729 Instrument H

Sample: T-0-1-3-A 1 214-1-A TH4027

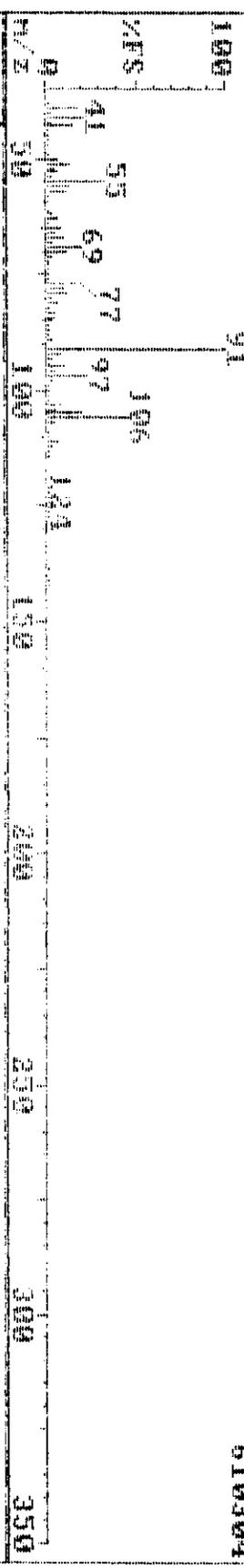
HW713 1007 (10.571) 2409449



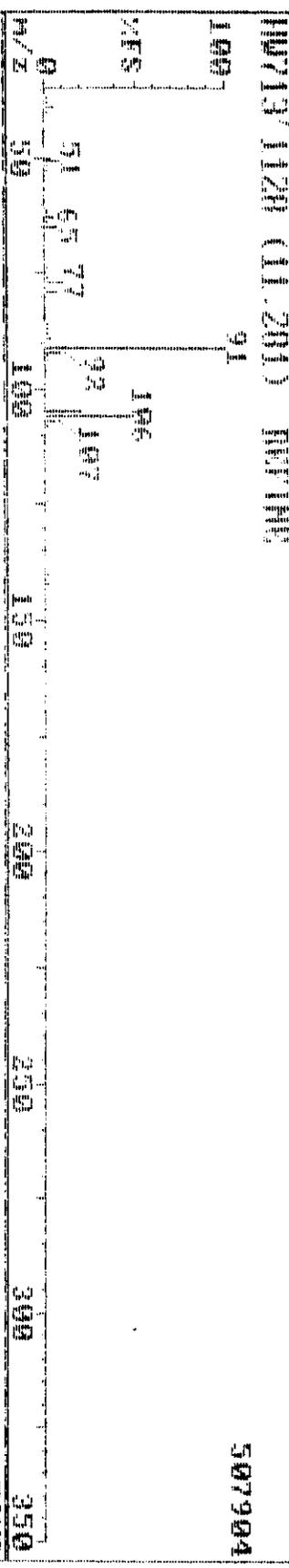
00-19-90 10:00 Triowto Laboratories, Inc. (019) 544-5729

Sample: T-0-1-3 A T 214-1-00 T1146297 Instrument H

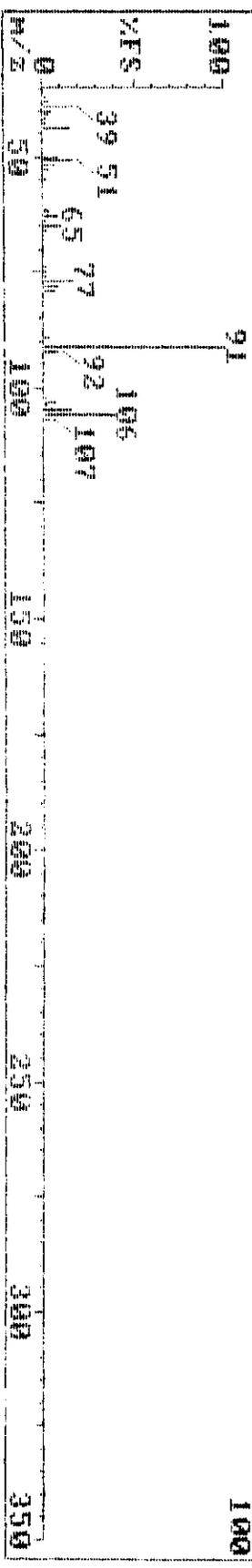
MW713 120 (1.20) 91 610304



507904



MW600 54 (1.24) 0-Xylene 91 PIND 100



08-19-98 10:06

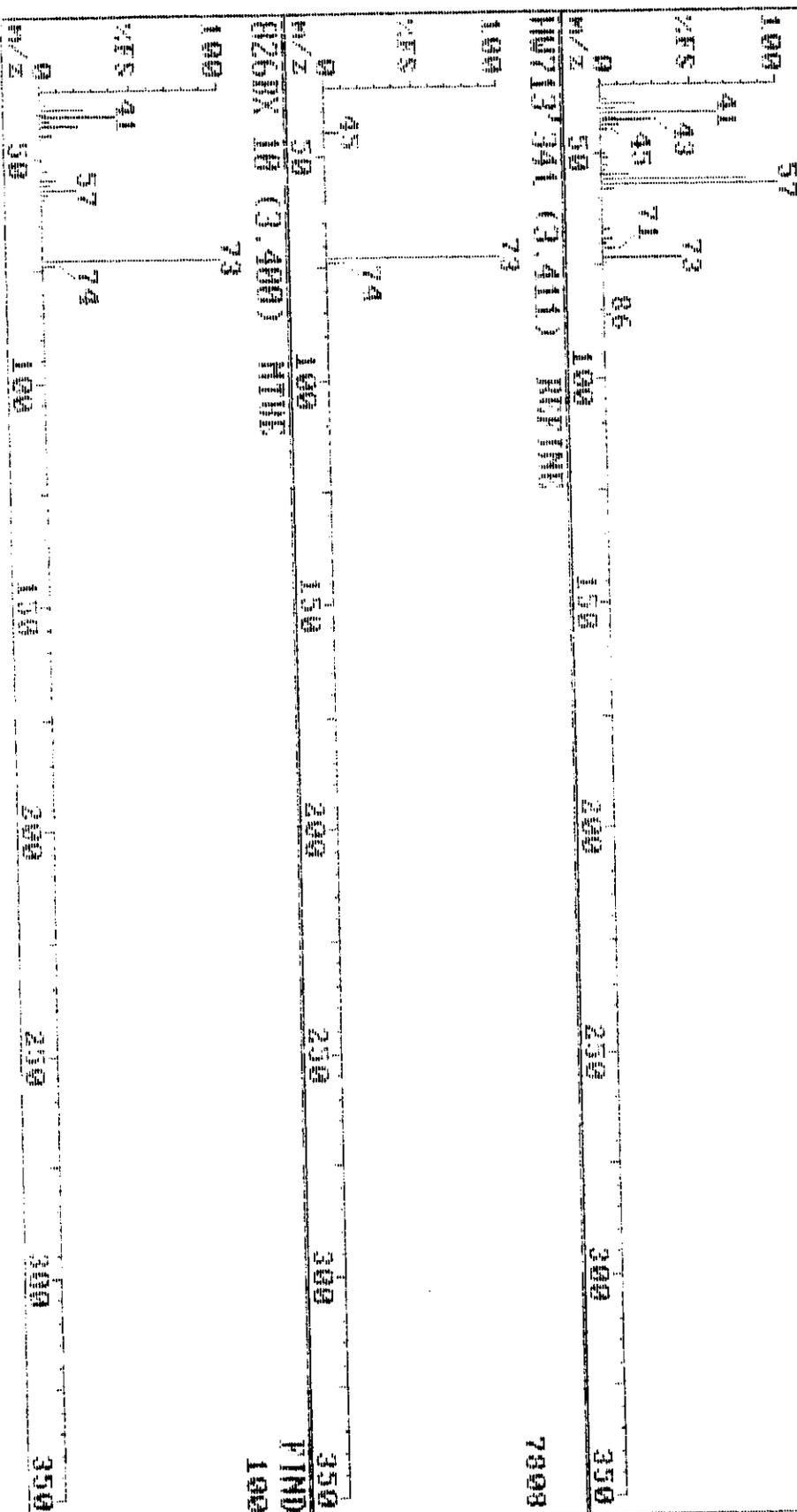
Triangle Laboratories, Inc.

(919) 544-5770

Instrument #

Sample: T U-1-3-A 1 214-1-00 TR46297

22016



19-Aug-98 10:06

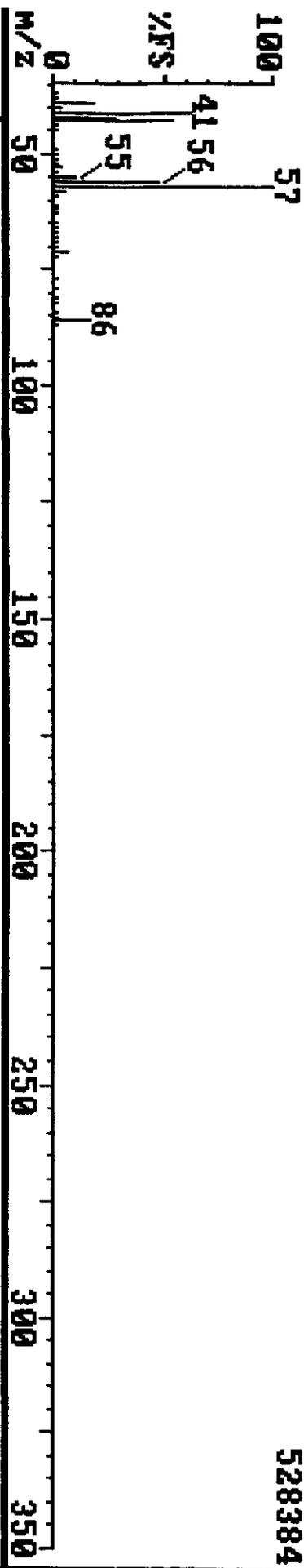
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-1-3-A T 214-1-8A TL1#46297

Instrument H

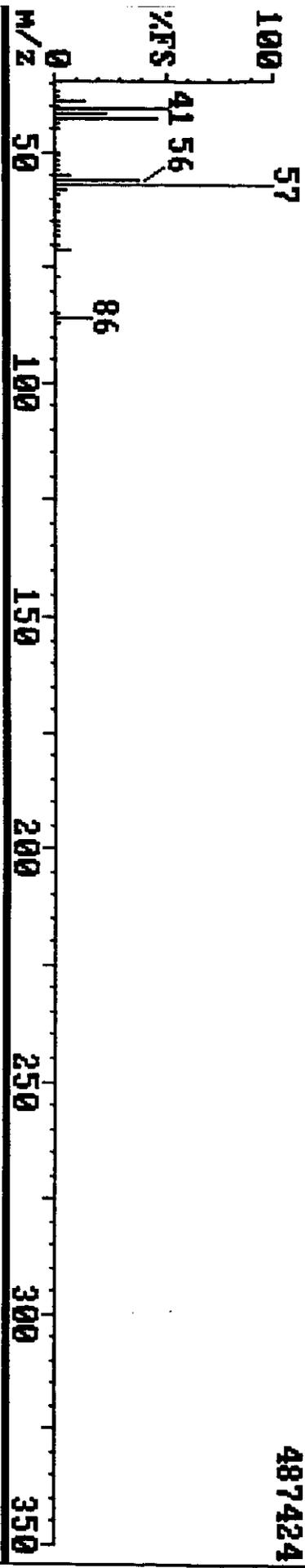
HM713 367 (3.670)

528384



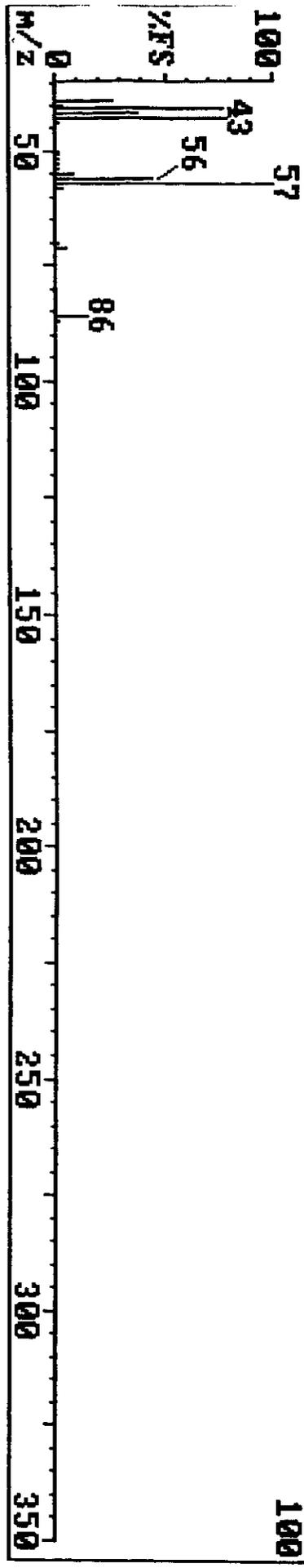
HM713 367 (3.671) REFINE

487424



MASTER 26 (4.240) n-Hexane

FIND 100



Pacific Environmental Services

Project Number: 46297  
Sample File: FX882

Method 8260 VOST  
Sample ID: T-V-1-3-B TC

Client Project: Hotmix  
TLI ID: 214-1-8B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane	0.083		1.12		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.109		1.64		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.006	J	2.76		0.05
Acetone	0.077		2.83		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.026	J	3.26		0.05
Acrylonitrile		U		0.016	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46297

Sample File: FX882

Method 8260 VOST

Sample ID: T-V-1-3-B TC

Client Project: Hotmix

Date Received: 07/25/98

Response File: ICALF814

TLI ID: 214-1-8B

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.005	BJ	8.08		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.002	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.35		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.002	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.72		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.003	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:44 08/24/1998



**Pacific Environmental Services**

Project Number: 46297  
 Sample File: FX882

Method 8260 VOST  
 Sample ID: T-V-1-3-B TC

Client Project: Hotmix  
 TLI ID: 214-1-8B

Date Received: 07/25/98

Response File: ICALF817

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.001	J	3.88		0.25
1,2-Epoxybutane		U		0.011	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.003	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
 801 Capitola Drive • Durham, North Carolina 27713  
 Phone: (919) 544-5729 • Fax: (919) 544-5491

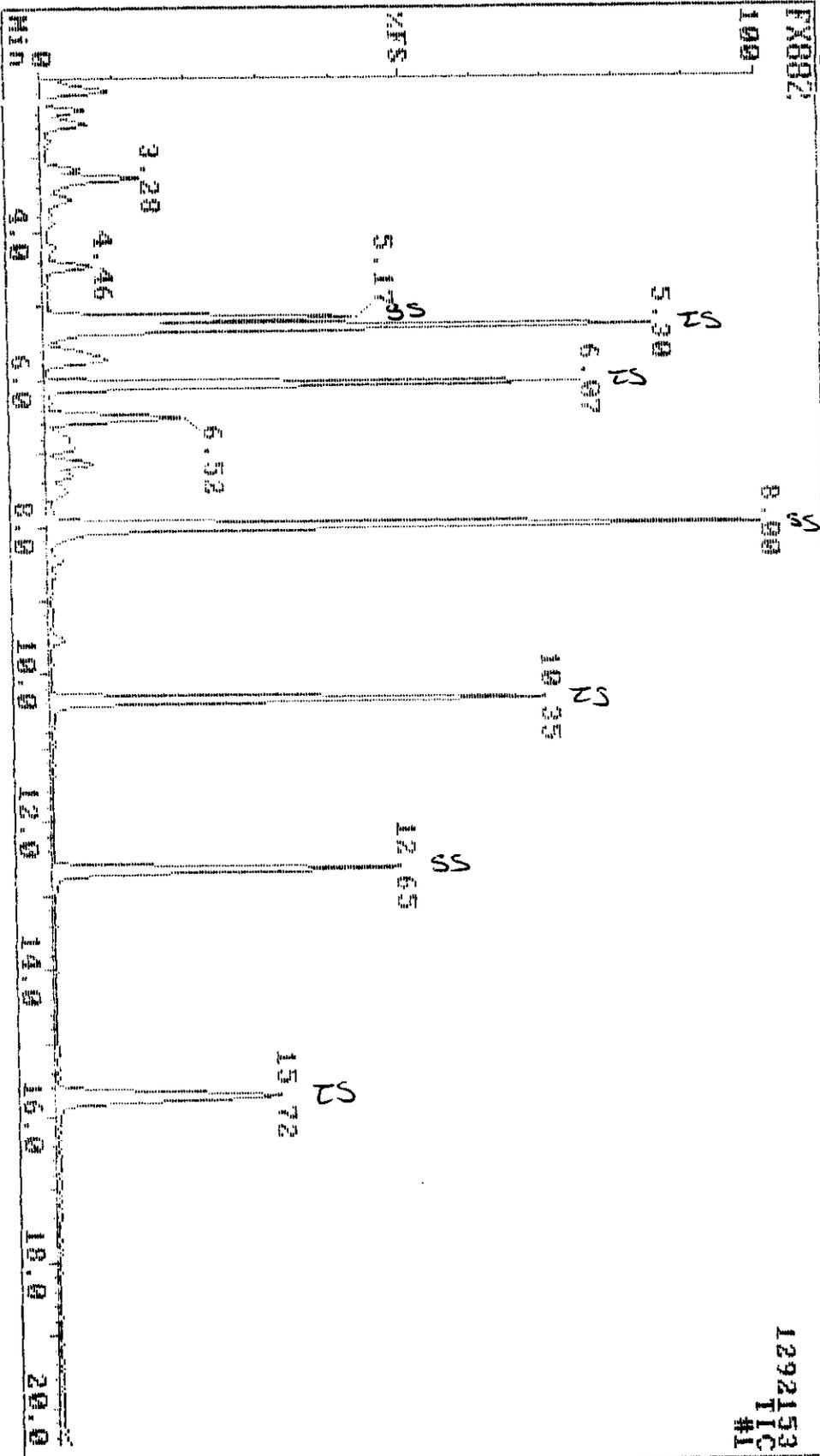
Savar v3.7  
 Printed: 18:00 08/24/1998

17-Aug-98 19:17  
Sample: T-U-1-3-B TO

Triangle Laboratories, Inc.  
214-1-98 T1146297

(919) 544-5729

Instrument F



1292153  
TIC  
#1

Data Review: YK  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.F	Flags	RF	QM	Name
1	100	77	99	1	2565532	bv		5.001	168	Pentafluorobenzene
2	100	97	99	0	2643408	bv		6.071	114	1,4-Difluorobenzene
3	100	95	95	0	2211964	bv		10.031	117	Chlorobenzene-d5
4	100	79	98	1	836188	bv		13.722	152	1,4-Dichlorobenzene-d4
5	100	87	99	0	1043964	bb		5.181	115	Dibromofluoromethane
6	100	92	97	1	3367004	bv		3.001	98	Toluene-d8
7	100	91	93	0	1021344	bv		12.651	95	4-Bromofluorobenzene
8	0	0	0	0	0			0.000	85	Dichlorodifluoromethane
9	0	0	0	0	291176	A		1.120	50	Chloromethane
10	0	0	0	0	0			0.000	62	Vinyl Chloride
11	89	60	90	2	197520	A		1.648	94	Bromomethane
12	0	0	0	0	0			0.000	64	Chloroethane
13	0	0	0	0	0			0.000	101	Trichlorofluoromethane
14	0	0	0	0	0			0.000	36	1,1-Dichloroethene
15	0	0	0	0	0			0.000	102	Iodomethane
16	72	53	65	-1	55396	bb		2.780	70	Carbon disulfide
17	71	25	88	0	36296	A		2.813	66	Acetone
18	0	0	0	0	0			0.000	61	Allyl chloride
19	0	0	0	0	0			0.000	84	acetylene chloride
20	0	1	9	-2	6344	sm		5.001	326	Acrylonitrile
21	0	0	0	0	0			0.000	96	trans-1,2-dichloroethene
22	0	0	0	0	0			0.000	65	1,1-Dichloroethane
23	0	0	0	0	0			0.000	45	Vinyl acetate
24	0	0	0	0	0			0.000	77	2,2-Dichloropropane
25	0	0	0	0	0			0.000	36	cis-1,2-Dichloroethene
26	18	14	20	8	2552	bv		1.001	93	2-Butanone
27	0	0	0	0	0			0.000	83	Chloroform
28	0	0	0	0	0			0.000	123	Bromochloromethane
29	0	0	0	0	0			0.000	97	1,1,1-Trichloroethane
30	0	0	0	0	0			0.000	117	Carbon tetrachloride
31	0	0	0	0	0			0.000	75	1,1-Dichloropropene
32	0	0	0	0	0			0.000	73	Benzene
33	0	0	0	0	0			0.000	62	1,2-Dichloroethane
34	0	0	0	0	0			0.000	150	Trichloroethene
35	0	0	0	0	0			0.000	63	1,2-Dichloropropane
36	0	0	0	0	0			0.000	95	Dibromomethane
37	0	0	0	0	0			0.000	41	Methyl methacrylate
38	0	0	0	0	0			0.000	83	Bromodichloromethane
39	0	0	0	0	0			0.000	75	cis-1,3-Dichloropropene
40	38	3	64	4	18990	A		3.001	43	4-Methyl-2-pentanone
41	70	42	73	-1	41356	bb		6.081	92	Toluene
42	0	0	0	0	0			0.000	75	trans-1,3-Dichloropropene
43	0	0	0	0	0			0.000	97	1,1,2-Trichloroethane
44	0	0	0	0	0			0.000	62	Ethyl methacrylate
45	0	0	0	0	0			0.000	164	Tetrachloroethene
46	0	0	0	0	0			0.000	76	1,3-Dichloropropane
47	0	0	0	0	0			0.000	43	2-Hexanone
48	0	0	0	0	0			0.000	129	Dibromochloromethane
49	0	0	0	0	0			0.000	107	1,2-Dibromoethane
50	0	0	0	0	0			0.000	112	Chlorobenzene

Data Review: YK  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.000	106	Ethylbenzene
53	0	0	0	0	0		0.000	106	m-/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoforn
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	83	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.000	120	n-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0		0.000	126	2-Chlorotoluene
64	0	0	0	0	0		0.000	126	4-Chlorotoluene
65	0	0	0	0	0		0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	119	tert-Butylbenzene
67	0	0	0	0	0		0.000	105	1,2,4-Trimethylbenzene
68	0	0	0	0	0		0.000	105	sec-Butylbenzene
69	0	0	0	0	0		0.000	119	p-Cymene
70	0	0	0	0	0		0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	91	Benzyl chloride
73	0	0	0	0	0		0.000	91	n-Butylbenzene
74	0	0	0	0	0		0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0	0		0.000	180	1,2,4-Trichlorobenzene
77	39	17	51	-4	4816	hb	19.572	225	Hexachlorocyclohexane
78	0	0	0	0	0		0.000	128	Naphthalene
79	0	0	0	0	0		0.000	180	1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	77	99	1	2565532	bv	5.301	68	Pentafluorobenzene
2	100	97	99	0	2643408	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	-1	2211964	bv	10.351	117	Chlorobenzene-d5
4	100	79	98	-1	836188	bv	15.722	152	1,4-Dichlorobenzene-d4
5	100	87	99	0	1043964	bb	5.181	113	Dibromofluoromethane
6	100	92	97	0	3367004	bv	8.001	98	Toluene-d8
7	100	91	93	-1	1021344	bv	12.651	95	4-Bromofluorobenzene
8	66	40	73	4	<del>49804</del>	<del>vv</del>	<del>1.260</del>	<del>FP</del>	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	79	60	70	2	<del>22984</del>	<del>v</del>	<del>3.610</del>	<del>FP</del>	73 MTBE
11	83	64	69	0	17868	bv	3.880	57	n-Hexane
12	59	42	62	6	<del>83004</del>	<del>v</del>	<del>4.450</del>	<del>FP</del>	42 1,2-Epoxybutane
13	86	64	76	-1	167952	bb	5.671	57	Iso-Octane
14	44	28	69	-13	<del>286760</del>	<del>bv</del>	<del>5.521</del>	<del>FP</del>	55 Ethyl acrylate

ML 8/19/98

17-Aug-98 19:17

Triangle Laboratories, Inc.

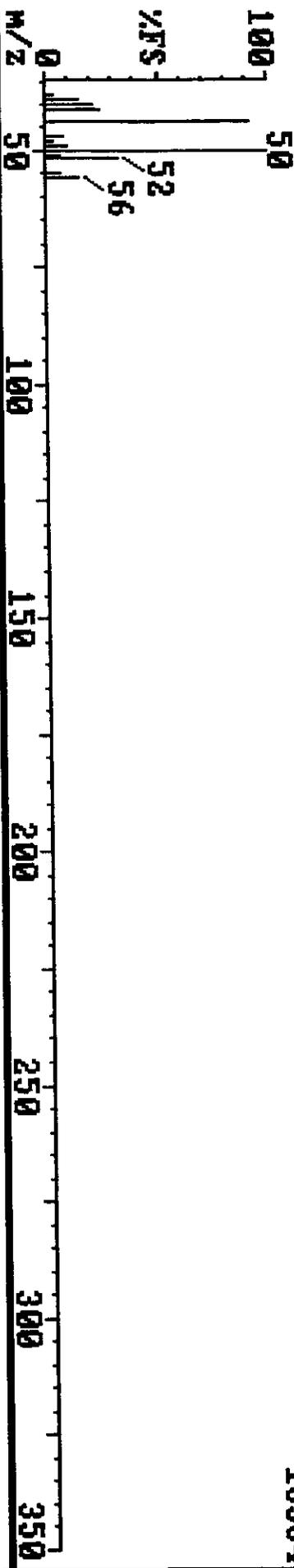
(919) 544-5729

Sample: T-U-1-3-B TC 214-1-8B TL1#46297

Instrument F

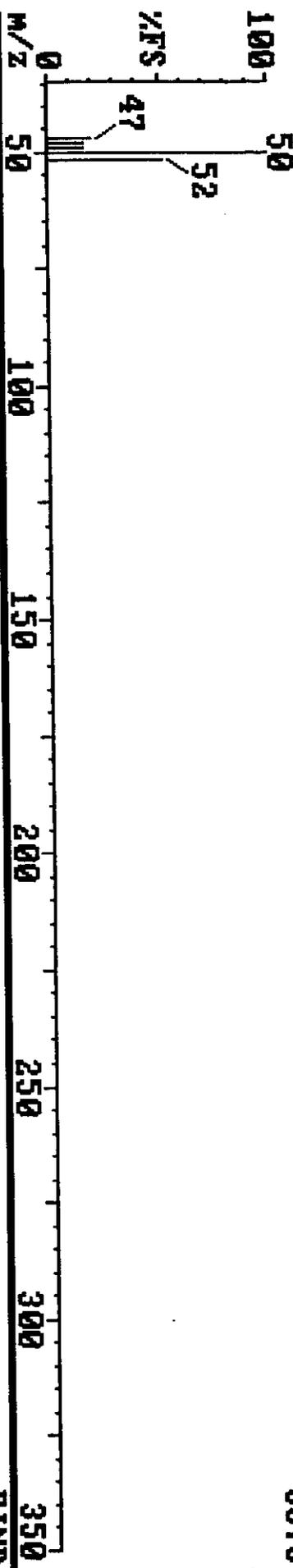
**FX882 108 (1.080)**

16384



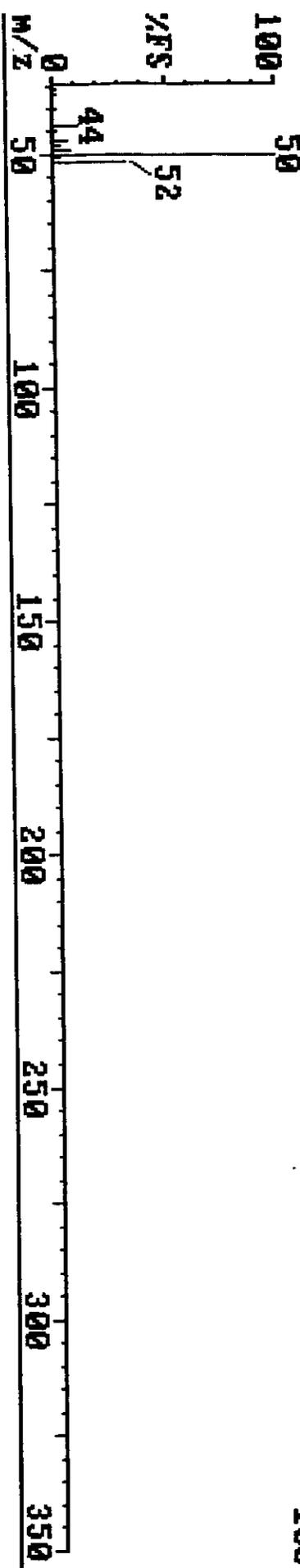
**FX882 108 (1.081) REFINE**

5376

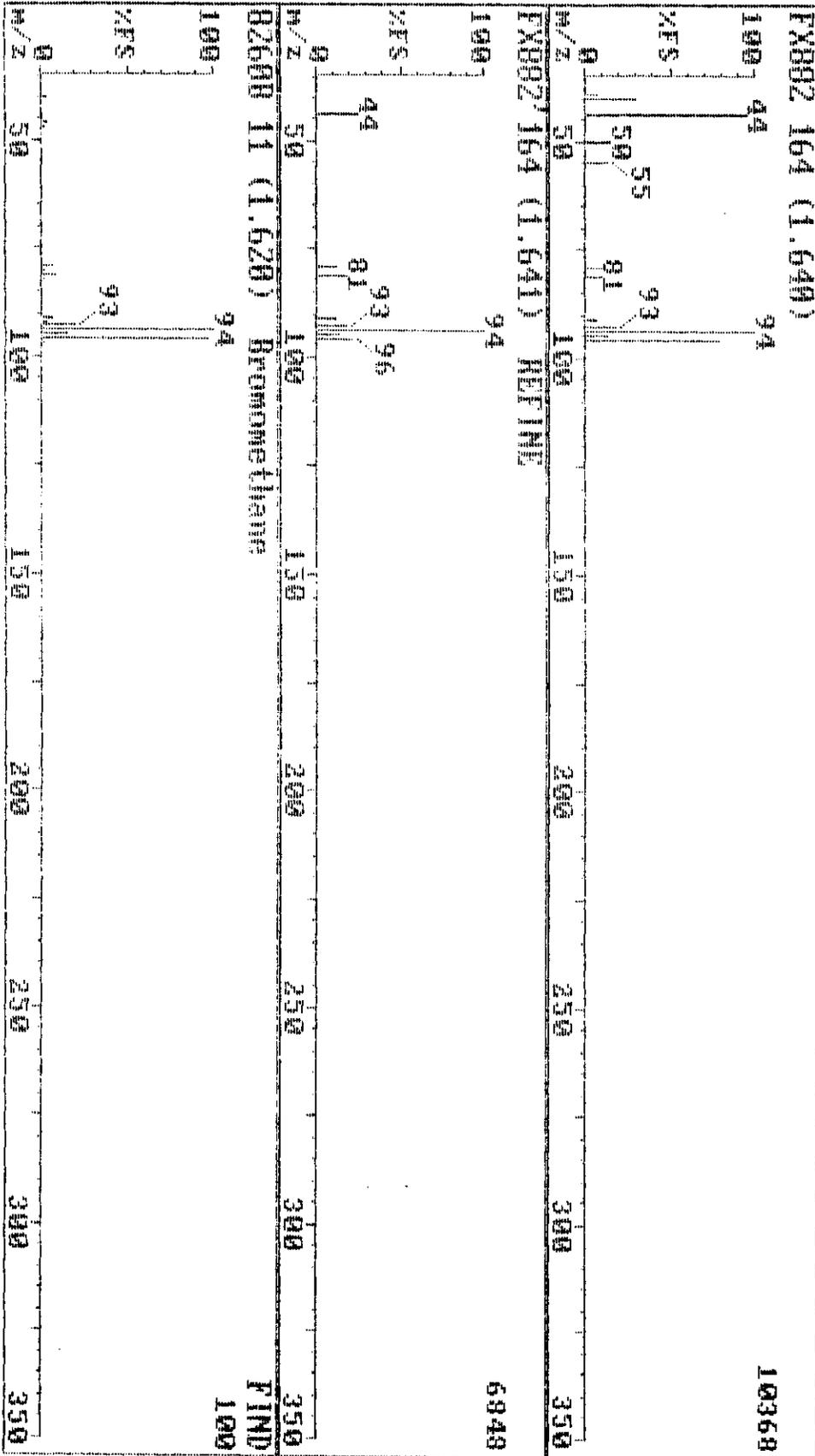


**8260 9 (1.230) Chloromethane**

FIND 100



17-Aug-98 19:17 Triang Laboratories, Inc. (919) 544-5729  
 Sample: T-U-1-3-B TC 214-1-98 TLH4297 Instrument F



17-Aug-98 10:17

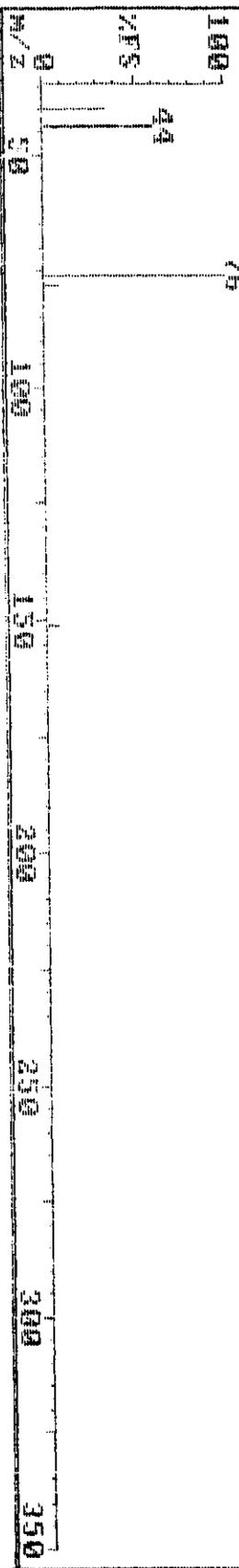
Triajve Laboratories, Inc. (919) 544-5729

Sample: T-U-1-3-B TC 214-1-98 TLM46297

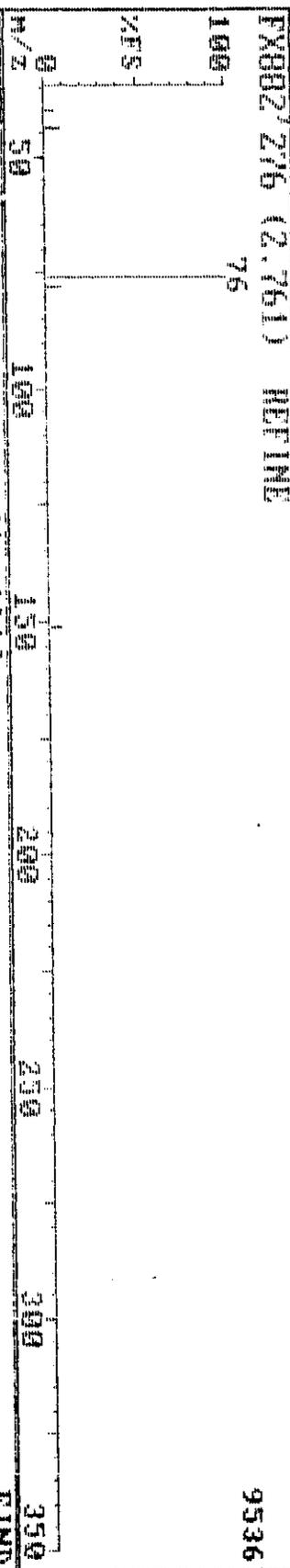
Instrument F

FX082 276 (2.760)

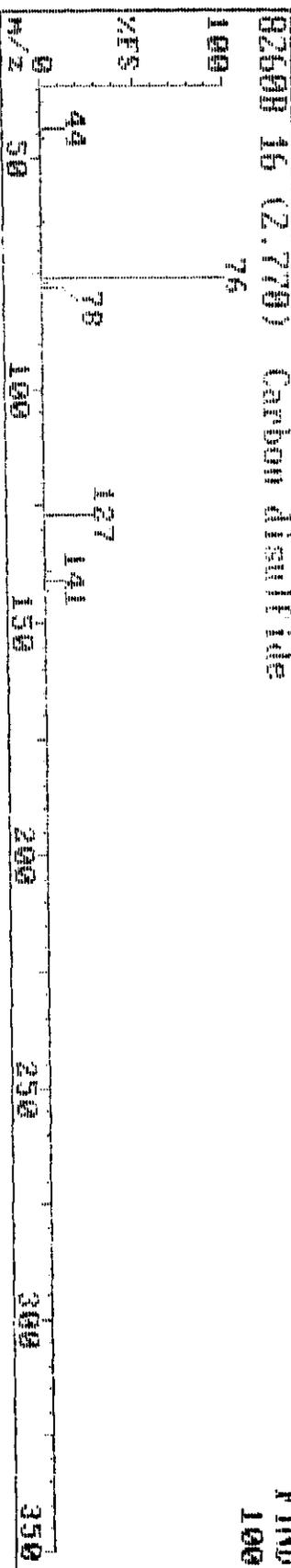
9856



9536



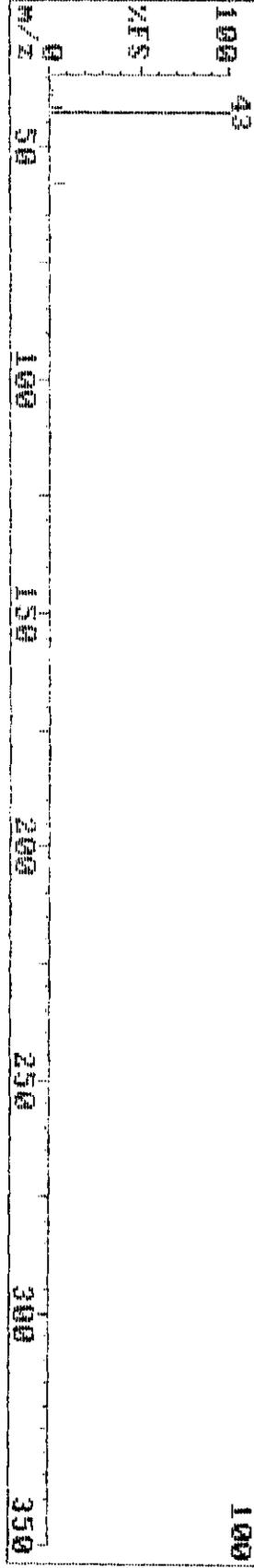
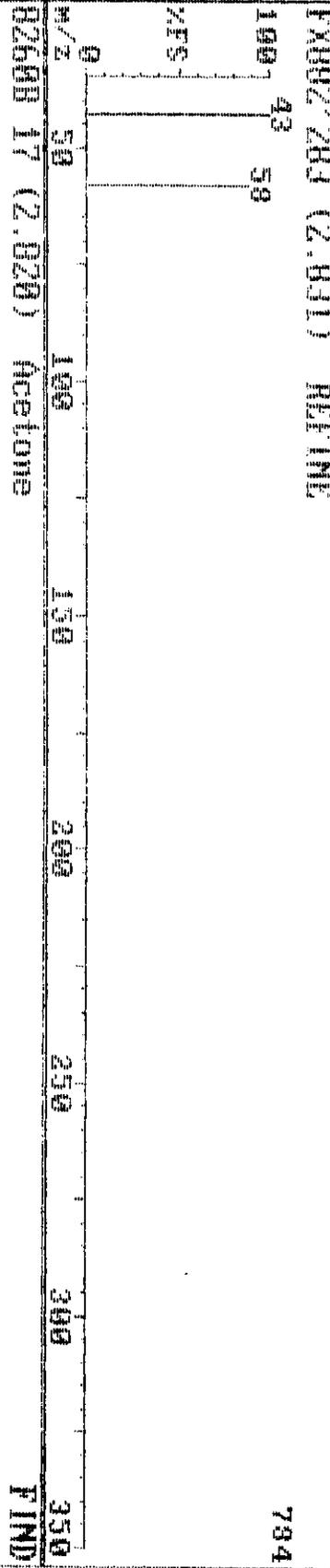
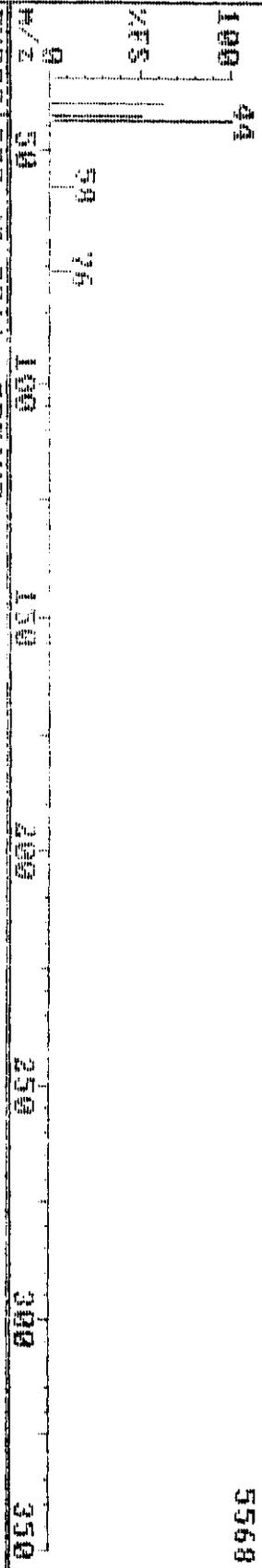
FIND 100



17-Aug-98 19:17 Triang Laboratories, Inc. (919) 544-5729 Instrument F

Sample: T-U-1-3-B TC 214-1-98 T1146297

FX002 283 (2.930) 5568



7-Aug-98 19:17

Triangle Laboratories, Inc.

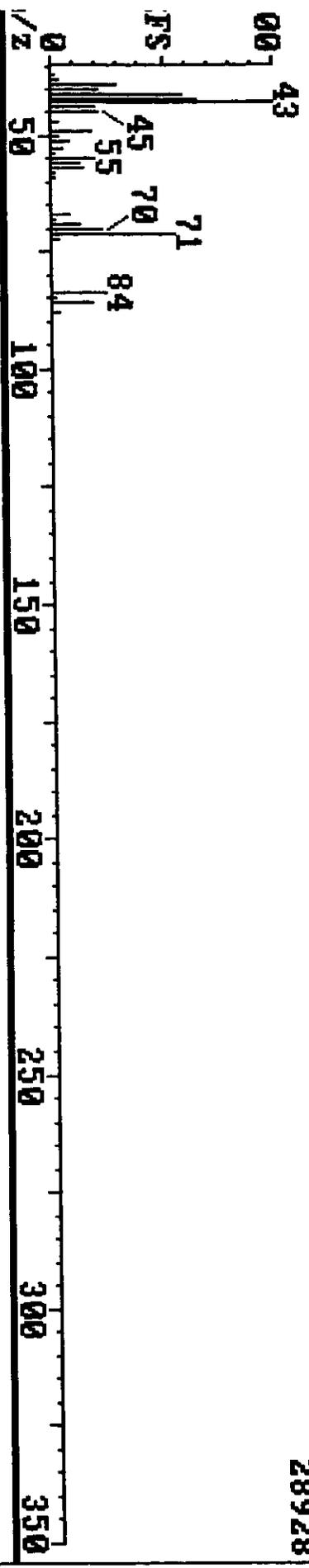
(919) 544-5729

Sample: T-U-1-3-B TC 214-1-8B TL#46297

Instrument F

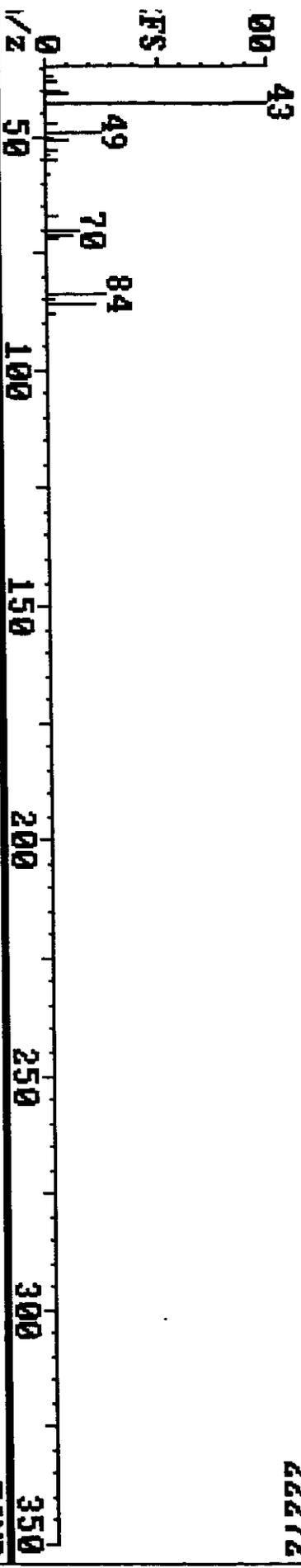
X882 326 (3.260)

28928



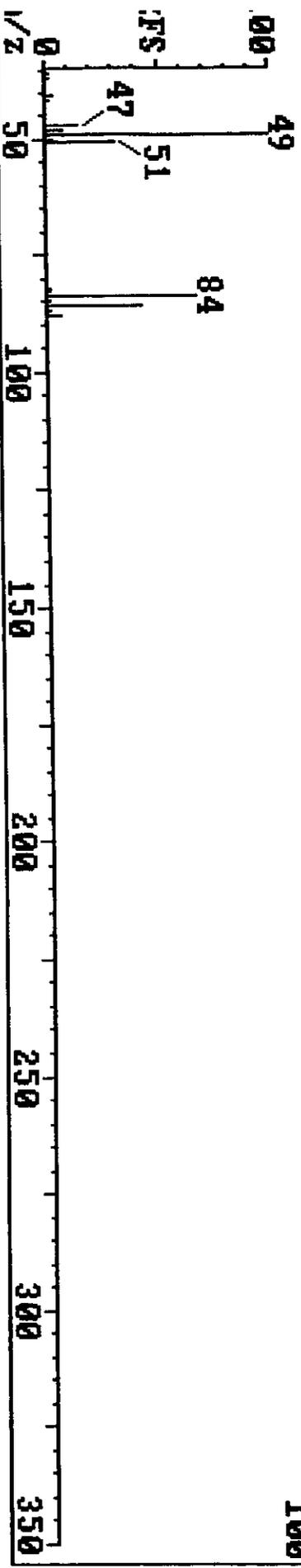
X882 326 (3.261) REFINE

22272



MASTER 22 (3.590) Methylene chloride

FIND  
100



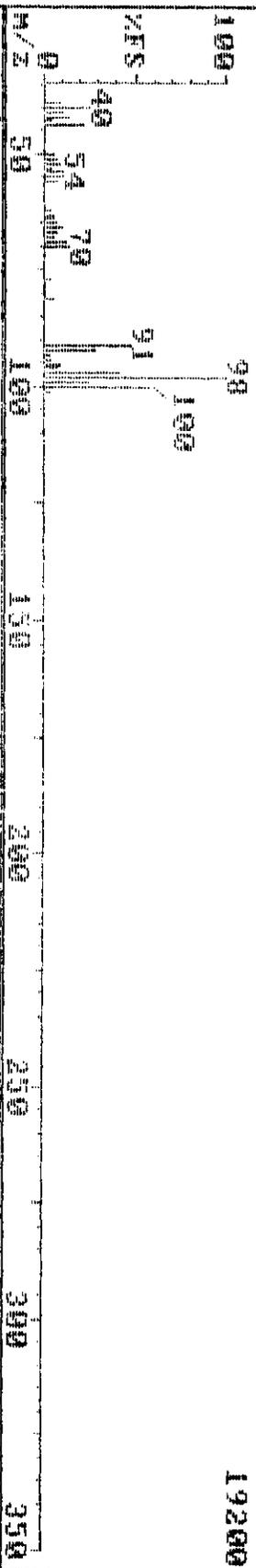
17-Aug-98 19:17

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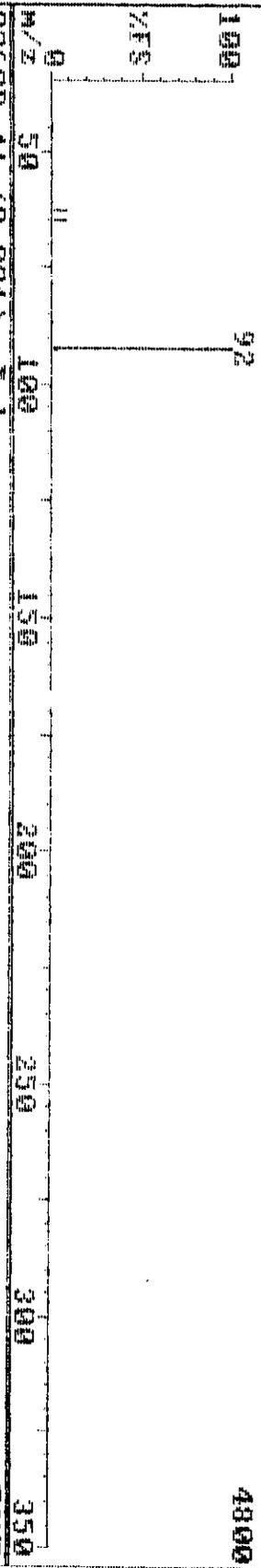
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Instrument F

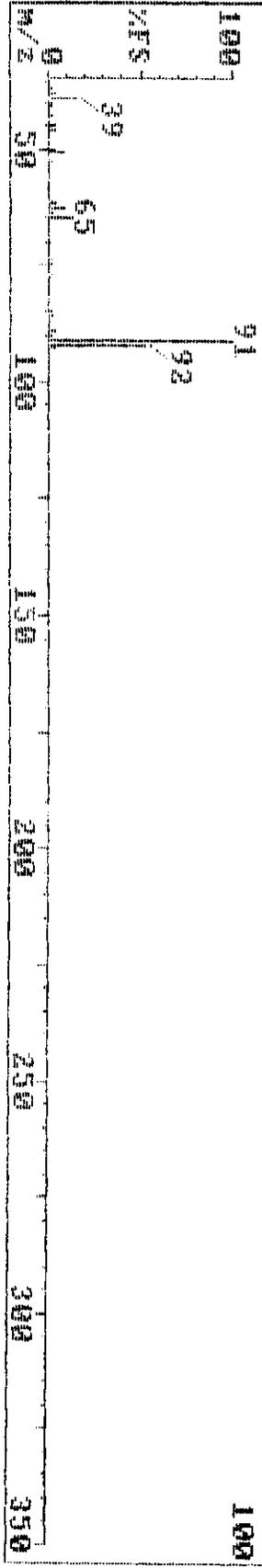
FX802 808 (8.001)



FX802 808 (8.001) REFINE



BZ608 41 (8.001) Toluene



19280

4800

FIND 100

17-Aug-90 19:47

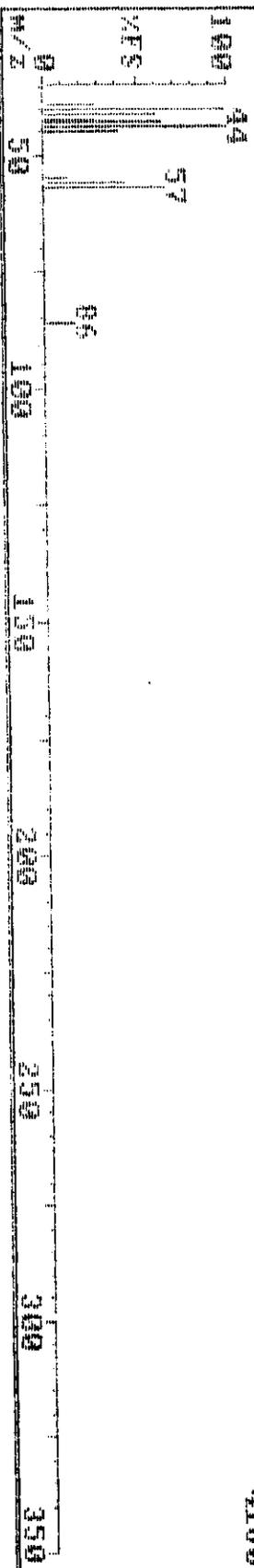
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-0-1-3-B 10 214-1-00 T11446297

Instrument F

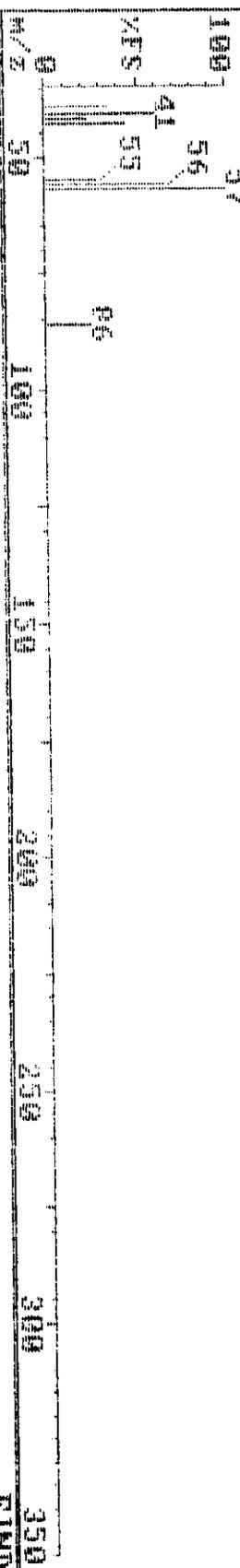
RV007 300 (3.000)

4160



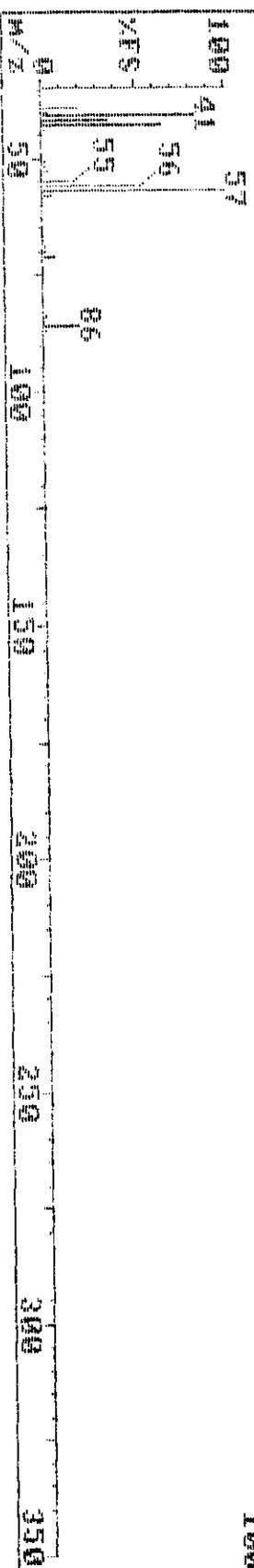
RV007 300 (3.001) REFINE

2752



026BX 11 (3.070) N-Hexane

FIND 100



**Pacific Environmental Services**

**Project Number: 46297**  
**Sample File: FX881**

**Method 8260 VOST**  
**Sample ID: T-V-1-4-B TC**

**Client Project: Hotmix**  
**TLI ID: 214-1-9B**

**Date Received: 07/25/98**

**Response File: ICALF814**

**Date Analyzed : 08/17/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
Chloromethane	0.073		1.08		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.045	J	1.64		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone	0.092		2.86		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.048	J	3.27		0.05
Acrylonitrile		U		0.016	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46297  
Sample File: FX881

Method 8260 VOST  
Sample ID: T-V-1-4-B TC

Client Project: Hotmix  
Date Received: 07/25/98  
Response File: ICALF814  
TLI ID: 214-1-9B  
Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.017	BJ	8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.002	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.35		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.72		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX881

Method 8260 VOST  
Sample ID: T-V-1-4-B TC

Client Project: Hotmix  
TLI ID: 214-1-9B

Date Received: 07/25/98

Response File: ICALF814

Date Analyzed : 08/17/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.240	5.18	1	96
Toluene-d <sub>8</sub>	0.320	8.00	2	128
4-Bromofluorobenzene	0.326	12.65	2	130

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Savar v3.7  
Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX881

Method 8260 VOST  
Sample ID: T-V-1-4-B TC

Client Project: Hotmix  
TLI ID: 214-1-9B

Date Received: 07/25/98

Response File: ICALF817

Date Analyzed: 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.004	J	3.88		0.25
1,2-Epoxybutane		U		0.011	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.003	0.25

Reviewed by VR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Printed: 18:00 08/24/1998

17-Aug-99 10:30

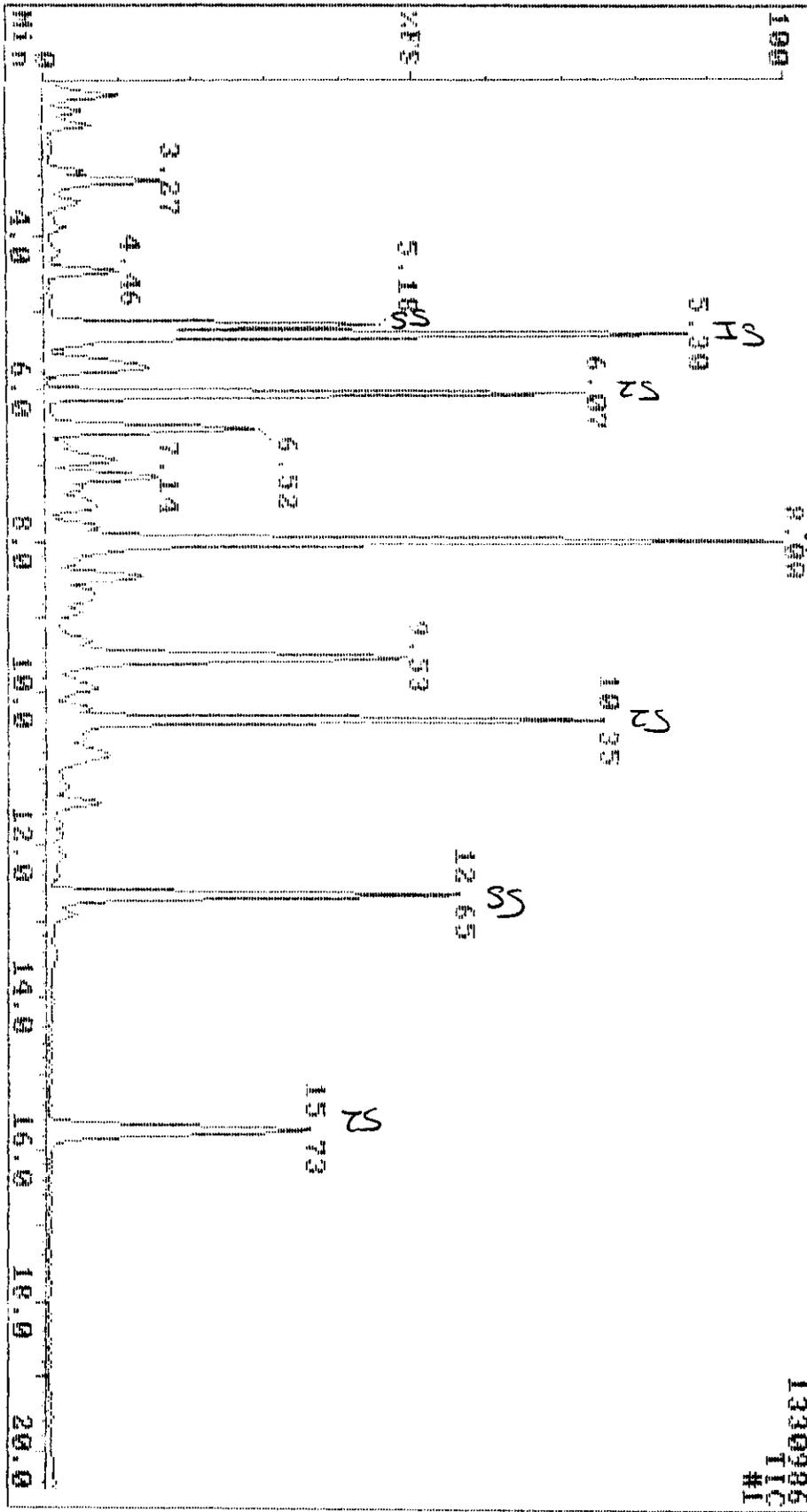
TriAnaly Laboratories, Inc.

(919) 544-5729

Sample: T-U-1-4-B TO 214-1-98 UM46297

Instrument F

EX001



Data Review: *W*  
Date: 8/19/99

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	76	98	2	2628280	bb	5.311	168	Pentafluorobenzene
2	100	97	99	-1	2692040	bb	6.071	114	1,4-Difluorobenzene
3	100	94	96	0	2455926	bv	10.351	117	Chlorobenzene-d5
4	100	79	98	1	977776	A	15.722	152	1,4-Dichlorobenzene-d4
5	100	82	99	-1	1061713	bv	5.181	113	Dibromofluoromethane
6	100	90	97	1	3511416	bv	8.001	98	Toluene-d8
7	100	90	94	0	1195316	bv	12.651	95	4-Bromofluorobenzene
8	0	0	0	0	0		0.000	35	Ortho-Dichloromethane
9	95	75	82	1	264480	A	1.030	50	Chloromethane
10	0	0	0	0	0		0.000	62	Vinyl Chloride
11	92	67	87	1	83521	bv	1.640	94	Bromomethane
12	0	0	0	0	0		0.000	54	Chloroethane
13	0	0	0	0	0		0.000	101	Trichloro-difluoroethane
14	0	0	0	0	0		0.000	76	1,1-Dichloroethane
15	0	0	0	0	0		0.000	102	Toluene
16	0	0	0	0	0		0.000	70	Carbon tetrachloride
17	96	25	88	3	44650	A	2.860	45	Acetone
18	0	0	0	0	0		0.000	41	4-Ethylchloride
19	0	0	0	0	0		0.000	39	Methylchloride
20	10	3	13	0	<del>118388</del>	<del>m</del>	<del>3.27</del>	56	Acrylonitrile
21	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene
22	0	0	0	0	0		0.000	63	1,1-Difluoroethane
23	0	0	0	0	0		0.000	43	Vinyl acetate
24	0	0	0	0	0		0.000	77	2,2-Difluoropropane
25	0	0	0	0	0		0.000	76	cis-1,3-Dichloropropene
26	20	16	21	4	<del>9857</del>		<del>4.72</del>	45	2-Butanone
27	0	0	0	0	0		0.000	85	Chloroform
28	0	0	0	0	0		0.000	128	Bromodichloromethane
29	0	0	0	0	0		0.000	77	1,1,1-Trichloroethane
30	0	0	0	0	0		0.000	117	Carbon tetrachloride
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene
32	0	0	0	0	0		0.000	78	Benzene
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane
34	0	0	0	0	0		0.000	139	Trichloroethene
35	0	0	0	0	0		0.000	63	1,2-Dichloropropene
36	0	0	0	0	0		0.000	93	Dibromomethane
37	0	0	0	0	0		0.000	41	Methyl methacrylate
38	0	0	0	0	0		0.000	83	Bromodichloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	35	5	57	4	<del>3213</del>	<del>mv</del>	<del>8.001</del>	43	4-Methyl-2-pentanone
41	92	50	88	0	129620	A	8.091	92	Toluene
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane
44	0	0	0	0	0		0.000	69	Ethyl methacrylate
45	0	0	0	0	0		0.000	164	Tetrachloroethene
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane
47	0	0	0	0	0		0.000	45	2-Hexanone
48	0	0	0	0	0		0.000	129	Dibromochloromethane
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane
50	0	0	0	0	0		0.000	112	Chlorobenzene

Data Review: *ML*  
 Date: 8/19/98

No.	MAF	FDR	RFV	Del	La	Area	P	Flags	RT	QM	Name
51	0	0	0	0		0			0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0		0			0.000	106	Ethylbenzene
53	0	0	0	0		0			0.000	106	m-/p-Xylene
54	0	0	0	0		0			0.000	106	o-Xylene
55	0	0	0	0		0			0.000	104	Styrene
56	0	0	0	0		0			0.000	173	Bromoform
57	0	0	0	0		0			0.000	105	Cumene
58	0	0	0	0		0			0.000	83	1,1,2,2-Tetrachloroethane
59	0	0	0	0		0			0.000	156	Bromobenzene
60	0	0	0	0		0			0.000	75	1,2,3-Trichloropropane
61	0	0	0	0		0			0.000	120	n-Propylbenzene
62	43	10	69	-3		<del>14096</del>			<del>12.45</del>	FP	75 trans-1,4-Dichloro-2-butene
63	0	0	0	0		0			0.000	134	2-Chlorotoluene
64	0	0	0	0		0			0.000	136	4-Chlorotoluene
65	0	0	0	0		0			0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0		0			0.000	119	tert-butylbenzene
67	0	0	0	0		0			0.000	105	1,2,4-Trimethylbenzene
68	0	0	0	0		0			0.000	105	sec-Butylbenzene
69	0	0	0	0		0			0.000	112	p-Toluene
70	0	0	0	0		0			0.000	146	1,3-Dichlorobenzene
71	0	0	0	0		0			0.000	146	1,4-Dichlorobenzene
72	0	0	0	0		0			0.000	21	Benzyl chloride
73	0	0	0	0		0			0.000	21	n-Butylbenzene
74	0	0	0	0		0			0.000	146	1,2-Dichlorobenzene
75	0	0	0	0		0			0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0		0			0.000	130	1,2,4-Trichlorobenzene
77	48	25	61	-4		8504	hb		12.532		275 Hexachlorocyclohexane
78	0	0	0	0		0			0.000	128	Naphthalene
79	0	0	0	0		0			0.000	130	1,2,3-Trichlorobenzene

M8719168

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.000	106	Ethylbenzene
53	0	0	0	0	0		0.000	106	m-/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoform
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	83	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.000	120	n-Propylbenzene
62	43	10	69	-8	<del>6880</del>		<del>12.781</del>	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0	MS1798	0.000	126	2-Chlorotoluene
64	0	0	0	0	0		0.000	126	4-Chlorotoluene
65	0	0	0	0	0		0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	112	tert-Butylbenzene
67	0	0	0	0	0		0.000	105	1,2,4-Trimethylbenzene
68	0	0	0	0	0		0.000	105	sec-Butylbenzene
69	0	0	0	0	0		0.000	112	p-Cymene
70	0	0	0	0	0		0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	91	Benzyl chloride
73	0	0	0	0	0		0.000	91	n-Butylbenzene
74	0	0	0	0	0		0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.000	75	1,2-Dibromo-3-chloropropane
76	0	0	0	0	0		0.000	180	1,2,4-Trichlorobenzene
77	48	23	61	-4	8504	bb	19.532	225	Hexachlorobutadiene
78	0	0	0	0	0		0.000	128	Naphthalene
79	0	0	0	0	0		0.000	180	1,2,3-Trichlorobenzene

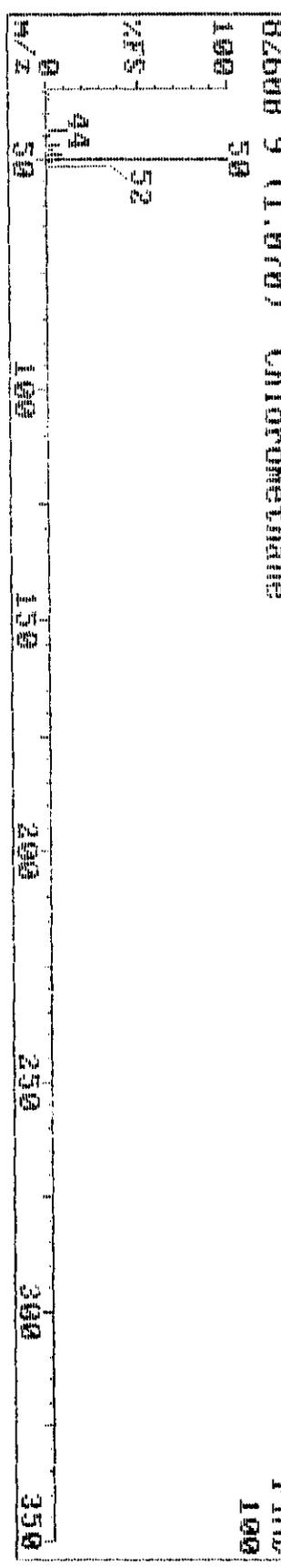
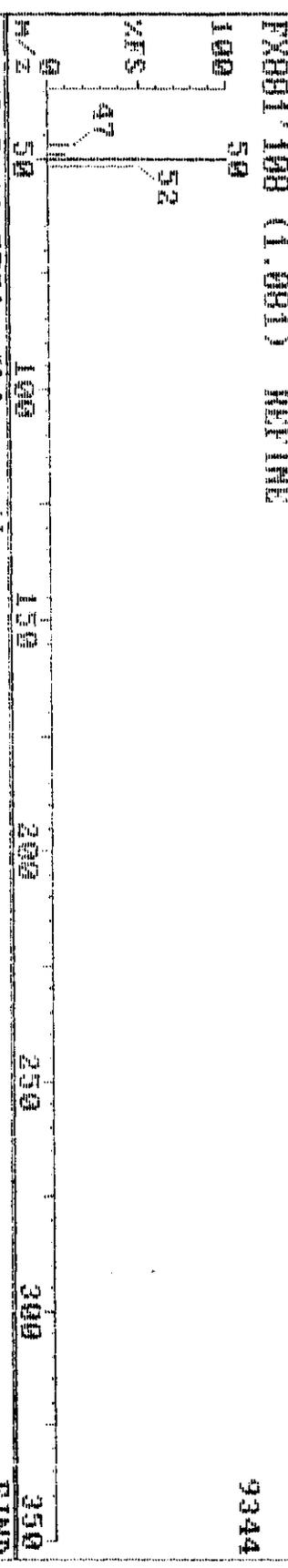
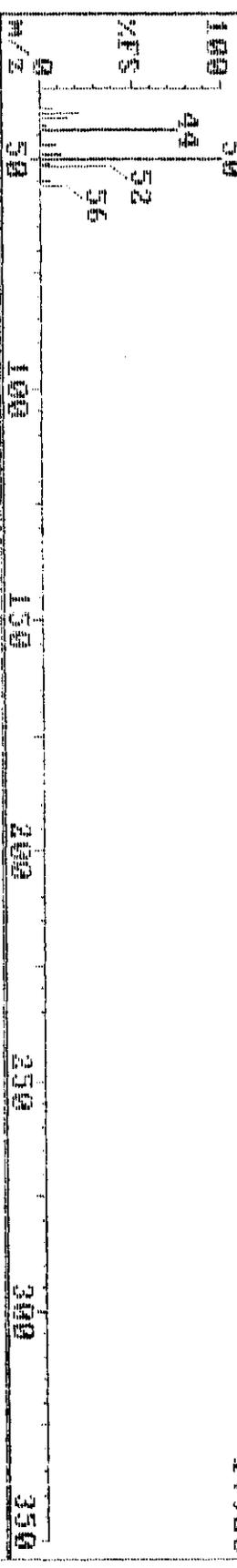
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	76	98	2	2628980	bb	5.311	168	Pentafluorobenzene
2	100	97	99	-1	2692040	bb	6.071	114	1,4-Difluorobenzene
3	100	94	96	-1	2455926	bv	10.351	117	Chlorobenzene-d5
4	100	79	98	-1	977776	A	15.722	152	1,4-Dichlorobenzene-d4
5	100	82	99	-1	1061712	bv	5.181	113	Dibromofluoromethane
6	100	90	97	0	3511416	bv	8.001	98	Toluene-d8
7	100	90	94	-1	1195316	bv	12.651	95	4-Bromofluorobenzene
8	60	35	67	4	<del>25744</del>	<del>bb</del>	<del>1.368</del>	<del>FP</del>	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	81	61	75	3	<del>32652</del>	<del>bb</del>	<del>3.625</del>	<del>FP</del>	73 MTBE
11	100	81	83	0	50692	bb	3.880	37	n-Hexane
12	56	38	61	6	<del>42972</del>	<del>bv</del>	<del>4.468</del>	<del>FP</del>	42 1,2-Epoxybutane
13	87	65	76	0	<del>285728</del>	<del>bb</del>	<del>5.691</del>	<del>FP</del>	57 Iso-Octane
14	41	28	70	-1.3	<del>45908</del>	<del>bb</del>	<del>6.921</del>	<del>FP</del>	55 Ethyl acrylate

M819198

17-Aug-98 18:30 Triang Laboratories, Inc. (919) 544-5729 Instrument F

Sample: T-U-1-4-B TC 214-1-98 T1144297

FX081 108 (1.088) 17920



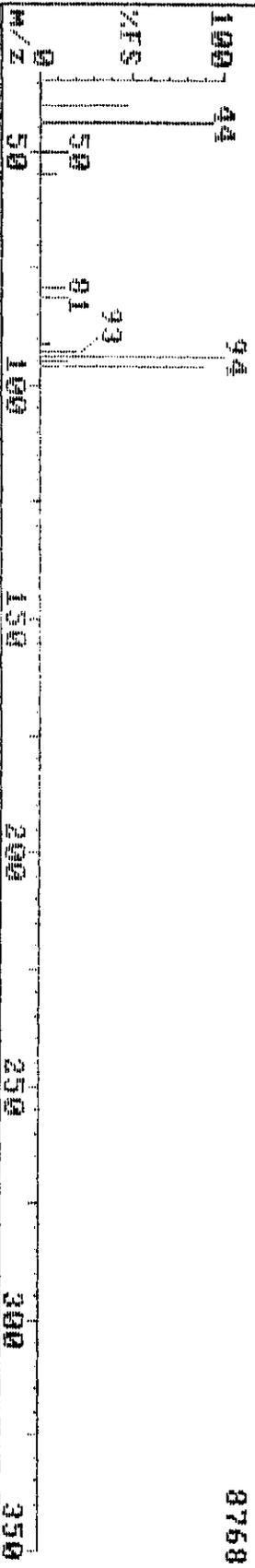
17-Aug-90 10:30

Triang Laboratories, Inc. (919) 544-5729

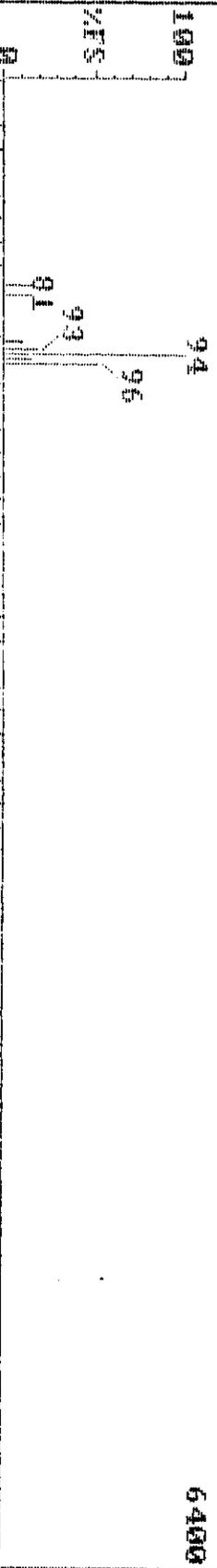
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Instrument F

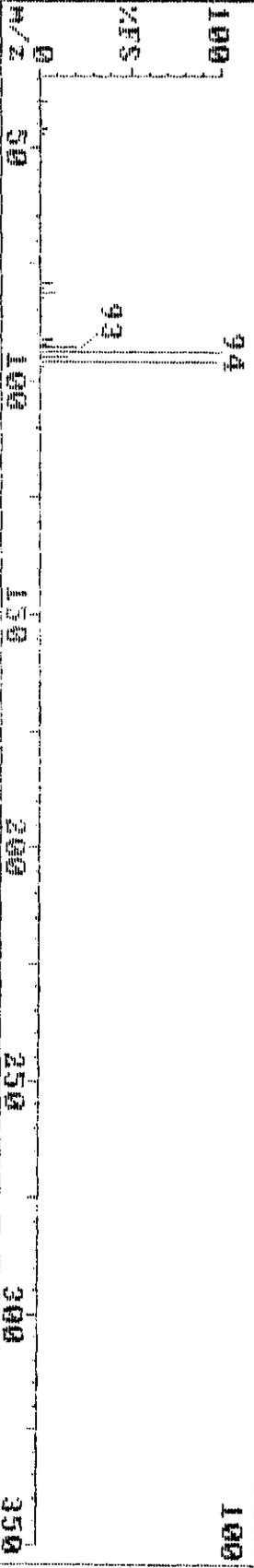
FXBBI 164 (1.640)



FXBBI 164 (1.641) REFINE



BZ600 11 (1.620) Bromomethane



8758

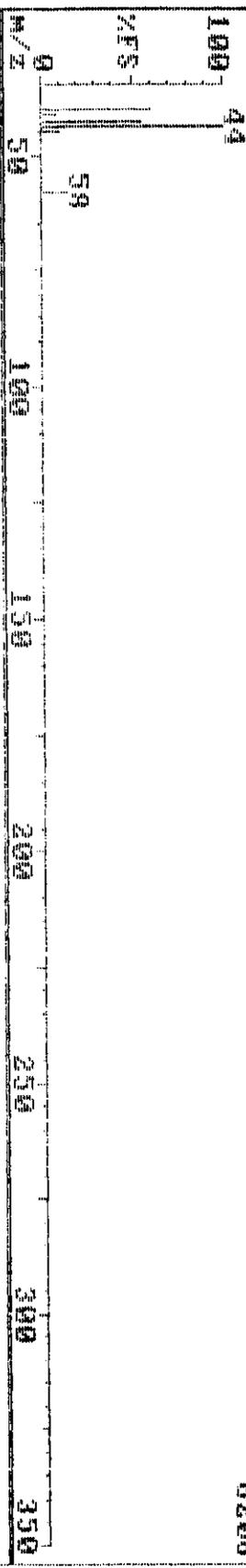
6400

FIND

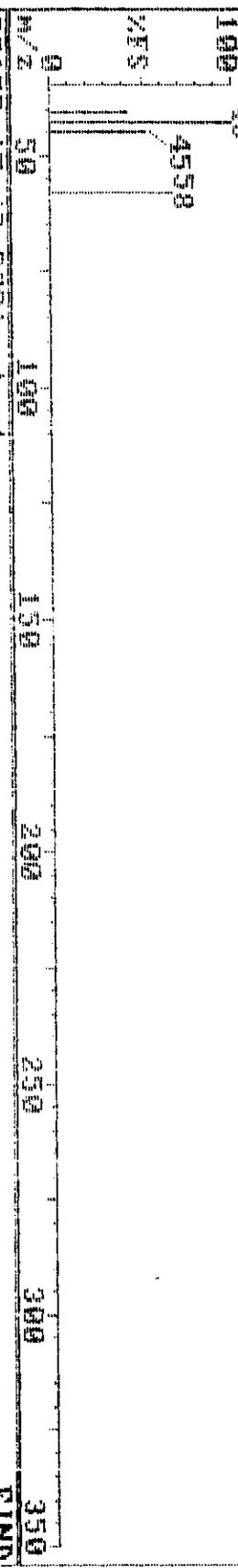
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17-Aug-98 18:38 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-U-1-4-B TO 214-1-98 TLW46297 Instrument F

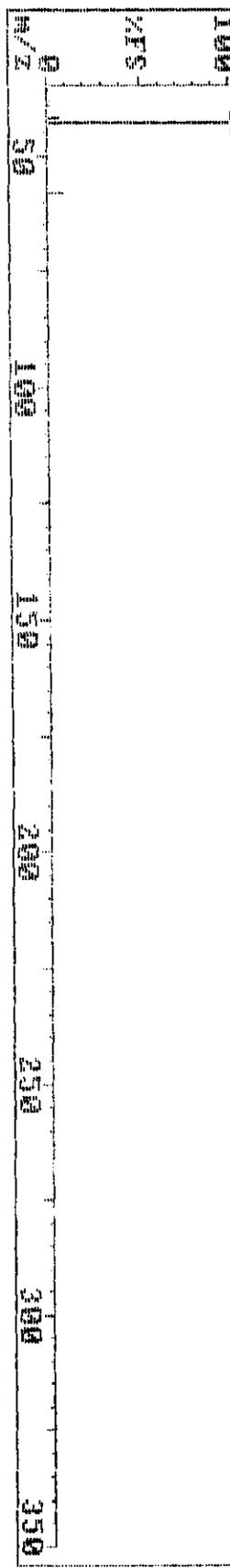
FX881 286 (2.868) 6208



FX881 286 (2.861) METME 1088



82688 17 (2.820) Acetone FIND 100



17-Aug-98 18:30

Triangle Laboratories, Inc.

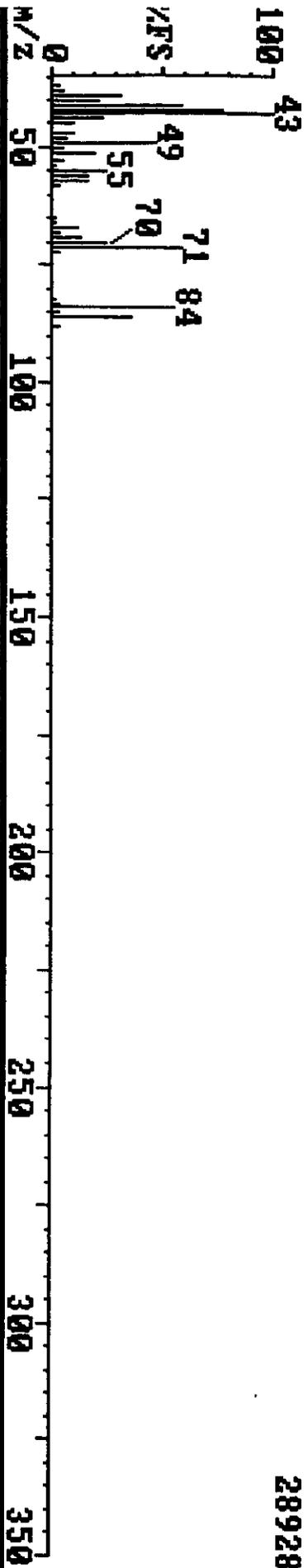
(919) 544-5729

Sample: T-U-1-4-B TC 214-1-9B TL1#46297

Instrument F

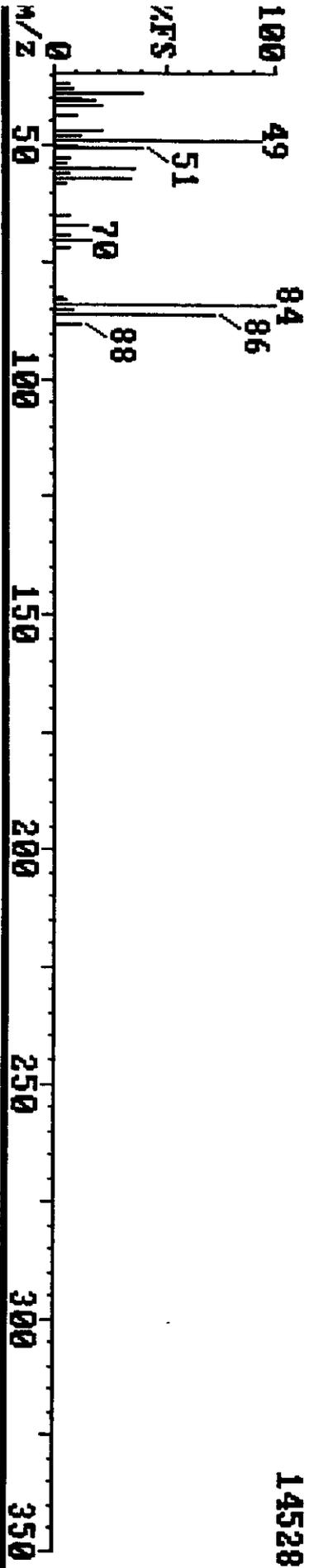
FX881 327 (3.270)

28928



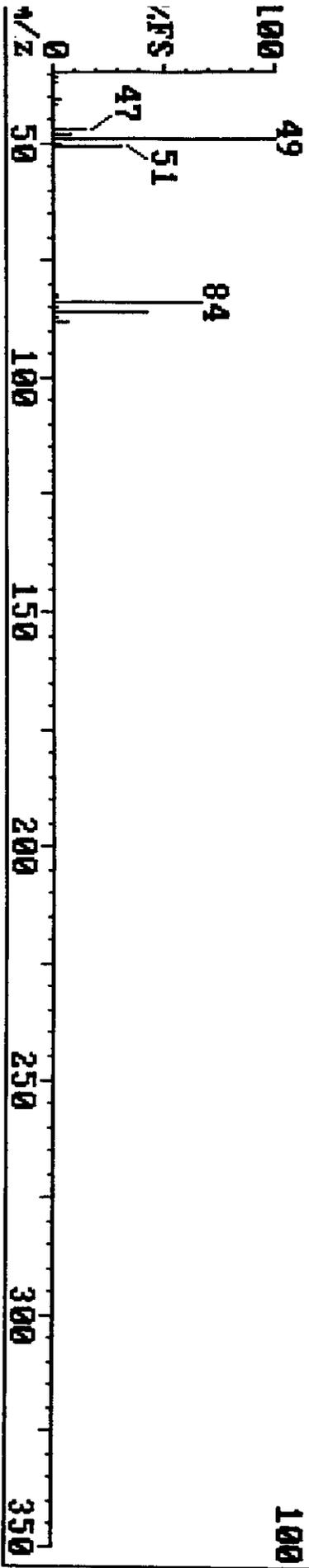
FX881 327 (3.271) REFINE

14528



MASTER 22 (3.590) Methylene chloride

FIND 100



17-Aug-98 18:30

Triangle Laboratories, Inc.

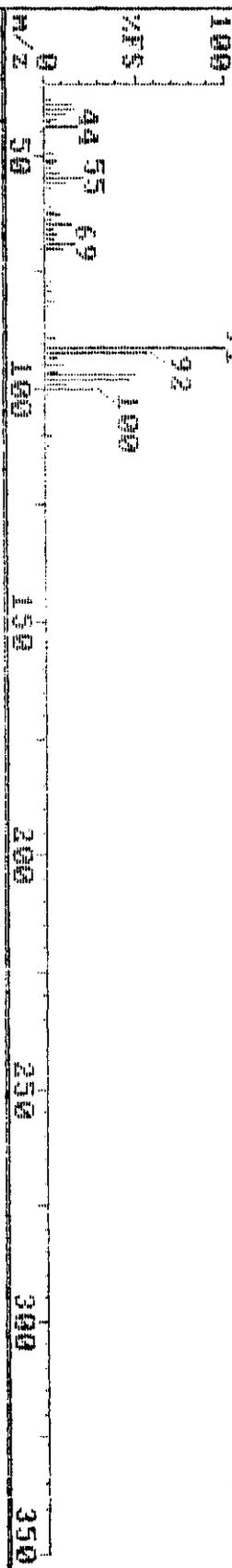
(919) 544-5729

Sample: T-U-1-4-B TC 214-1-9H TLH46297

Instrument F

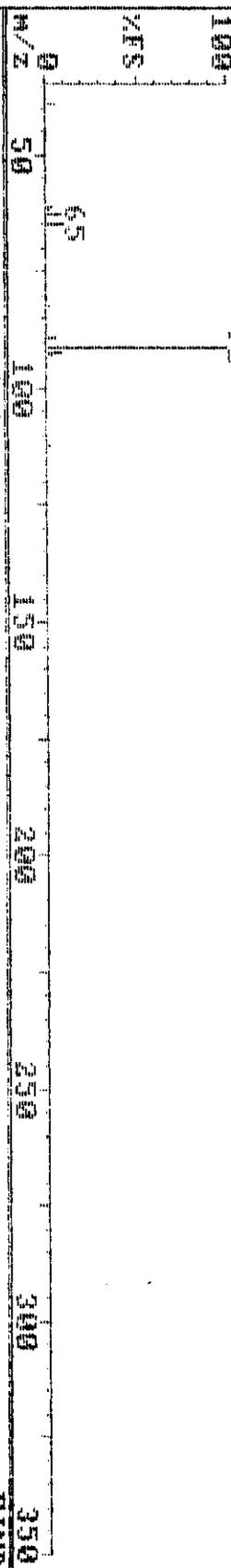
FX001 009 (8.091)

27648



FX001 009 (8.091) Toluene

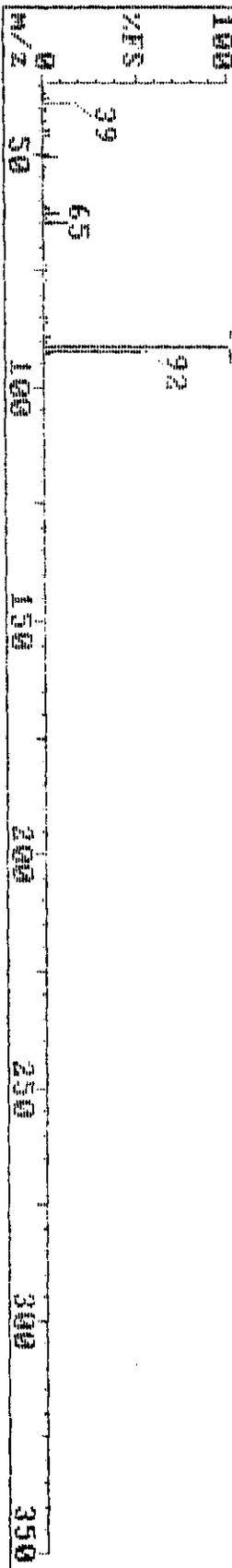
25600



B2600 41 (8.081) Toluene

FIND

100



17-Aug-98 18:30

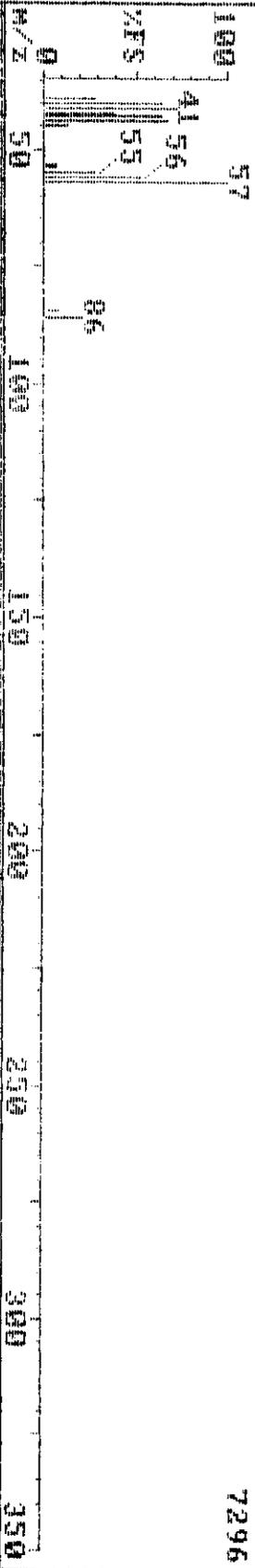
Triamyl Laboratories, Inc. (919) 544-5729

Sample: T-U-1-4-B TO 214-1-98 T1#46297

Instrument F

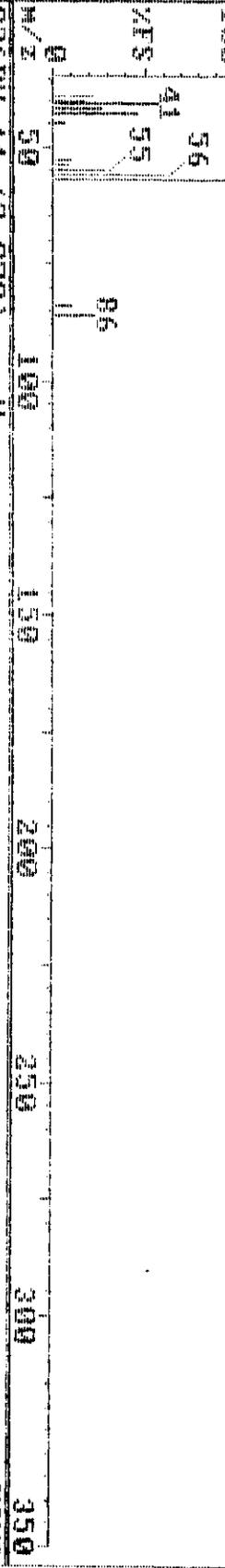
TX001 300 (3.000)

7296



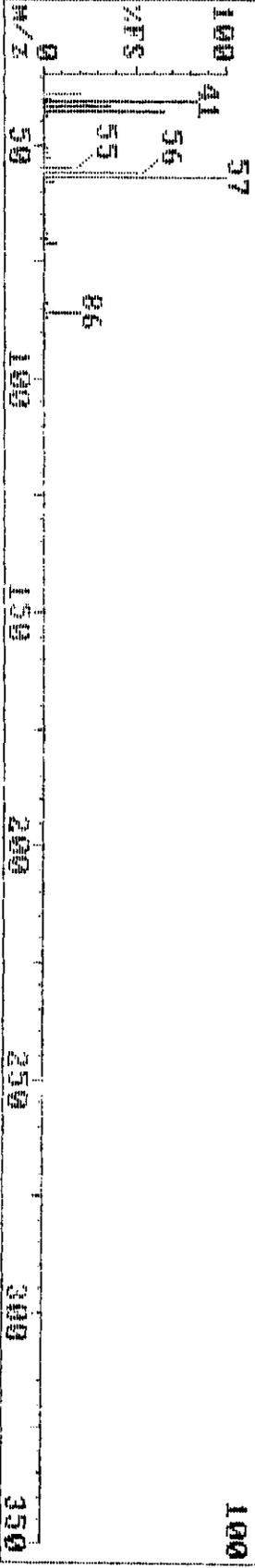
TX001 300 (3.001) REFINE

6976



026HX 11 (3.870) n-Hexane

350



100

**Pacific Environmental Services**

Project Number: 46297

Method 8260 VOST

Sample File: FX878

Sample ID: VOSTBLK081798

Client Project: Hotmix

Date Received: / /

Response File: ICALF814

TLI ID: VOSTBLK081798

Date Analyzed : 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.32		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride		U		0.001	0.05
Acrylonitrile		U		0.016	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.08		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.013	J	5.54		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

Savar v3.7

801 Capitola Drive • Durham, North Carolina 27713

Printed: 17:44 08/24/1998

Phone: (919) 544-5729 • Fax: (919) 544-5491

**Pacific Environmental Services**

Project Number: 46297  
Sample File: FX878

Method 8260 VOST  
Sample ID: VOSTBLK081798

Client Project: Hotmix  
TLI ID: VOSTBLK081798

Date Received: / /

Response File: ICALF814

Date Analyzed: 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.005	J	8.10		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.36		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.006	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.73		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.003	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX878

Method 8260 VOST  
Sample ID: VOSTBLK081798

Client Project: Hotmix  
TLI ID: VOSTBLK081798  
Date Received: / /  
Date Analyzed : 08/17/98  
Response File: ICALF814

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.267	5.19	1	107
Toluene-d <sub>8</sub>	0.296	8.01	2	118
4-Bromofluorobenzene	0.256	12.66	2	102

Reviewed by VR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: FX878

Method 8260 VOST  
Sample ID: VOSTBLK081798

Client Project: Hotmix  
TLI ID: VOSTBLK081798

Date Received: / /

Response File: ICALF817

Date Analyzed: 08/17/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.32		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane		U		0.001	0.25
1,2-Epoxybutane		U		0.011	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.08		
Ethyl acrylate		U		0.002	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 18:00 08/24/1998

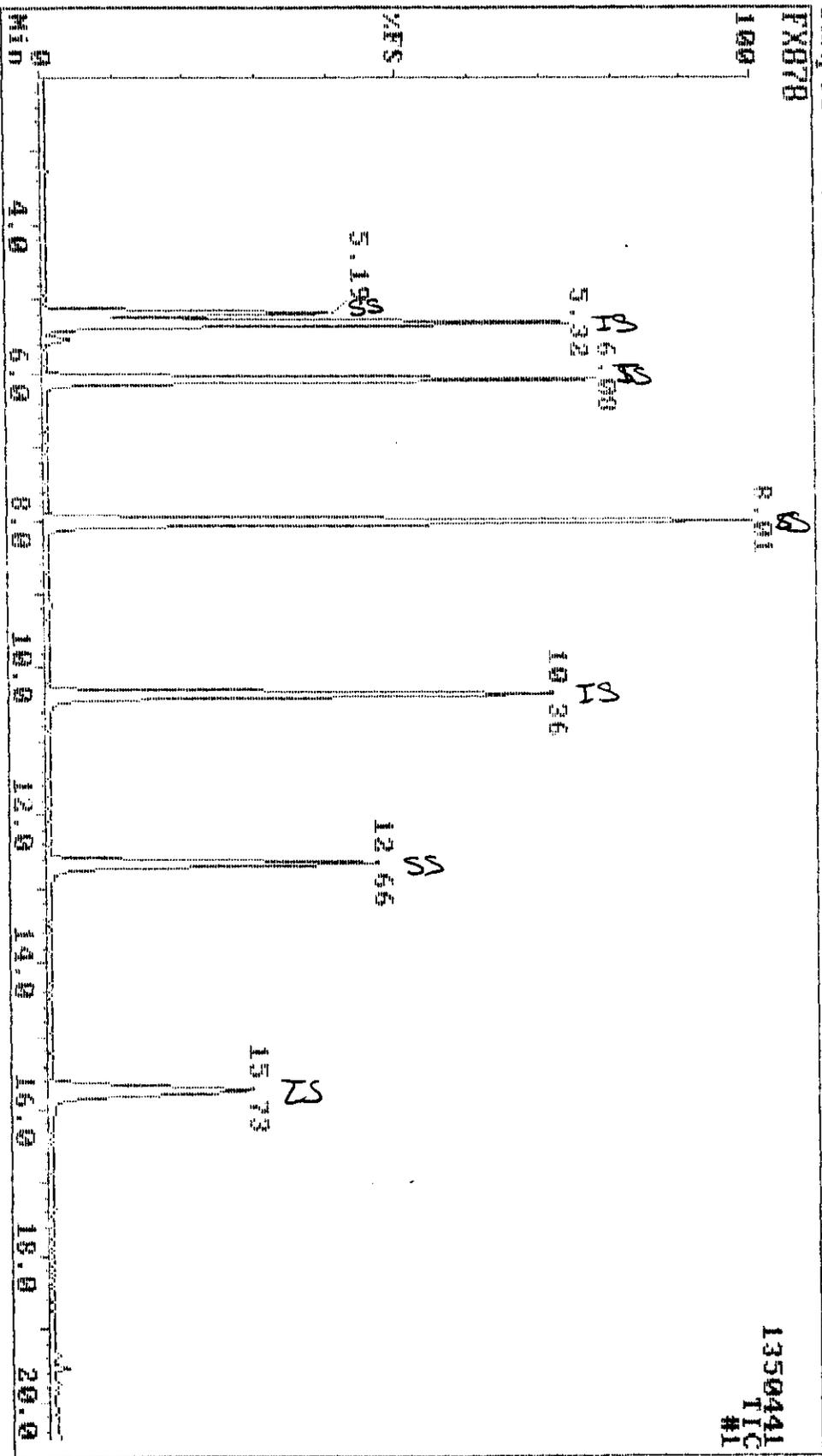
17-Aug-98 15:51

Sample: VOSTMILK T/TO

Triangle Laboratories, Inc.

(919) 544-5729

Instrument F



1350441  
TIC  
#1

Date: 8/19/98  
Data Review: MC

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	85	99	3	2578248	bv	5.321	168	Pentafluorobenzene
2	100	97	99	-1	2921264	bv	6.081	114	1,4-Difluorobenzene
3	100	95	96	0	2425024	bv	10.361	117	Chlorobenzene-d5
4	100	79	98	0	799240	bv	15.730	152	1,4-Dichlorobenzene-d4
5	100	97	99	-1	1157096	bb	5.191	113	Dibromofluoromethane
6	100	92	97	0	3532432	bv	8.011	98	Toluene-d8
7	100	91	93	-1	1017440	bv	12.661	95	4-Bromo fluorobenzene
8	0	0	0	0	0		0.000	85	Dichlorodifluoromethane
9	0	0	0	0	0		0.000	50	Chloromethane
10	0	0	0	0	0		0.000	62	Vinyl Chloride
11	0	0	0	0	0		0.000	94	Bromomethane
12	0	0	0	0	0		0.000	64	Chloroethane
13	0	0	0	0	0		0.000	101	Trichlorofluoromethane
14	0	0	0	0	0		0.000	96	1,1-Dichloroethene
15	0	0	0	0	0		0.000	142	Iodomethane
16	0	0	0	0	0		0.000	76	Carbon disulfide
17	0	0	0	0	0		0.000	43	Acetone
18	0	0	0	0	0		0.000	41	Allyl chloride
19	0	0	0	0	0		0.000	84	Methylene chloride
20	0	0	0	0	0		0.000	53	acrylonitrile
21	0	0	0	0	0		0.000	96	trans-1,2-Dichloroethene
22	0	0	0	0	0		0.000	63	1,1-Dichloroethane
23	0	0	0	0	0		0.000	45	Vinyl acetate
24	0	0	0	0	0		0.000	77	2,2-Dichloropropane
25	0	0	0	0	0		0.000	96	cis-1,2-Dichloroethene
26	17	15	15	3	<del>1808</del>	<del>bb</del>	<del>1.771</del>	<del>FP</del>	43 2-Butanone
27	0	0	0	0	0		0.000	85	Chloroform
28	0	0	0	0	0		0.000	128	Bromochloromethane
29	0	0	0	0	0		0.000	97	1,1,1-Trichloroethane
30	0	0	0	0	0		0.000	117	Carbon tetrachloride
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene
32	100	79	95	1	146244	bb	5.541	78	Benzene
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane
34	0	0	0	0	0		0.000	130	Trichloroethene
35	0	0	0	0	0		0.000	63	1,2-Dichloropropane
36	0	0	0	0	0		0.000	93	Dibromomethane
37	0	0	0	0	0		0.000	41	Methyl methacrylate
38	0	0	0	0	0		0.000	83	Bromodichloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	39	3	66	4	<del>14176</del>	<del>bv</del>	<del>8.021</del>	<del>FP</del>	45 4-Methyl-2-pentanone
41	66	34	72	-1	38868	bb	8.101	92	Toluene
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene
43	0	0	0	0	0		0.000	97	1,1,2-Trichloroethane
44	0	0	0	0	0		0.000	69	Ethyl methacrylate
45	0	0	0	0	0		0.000	164	Tetrachloroethene
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane
47	0	0	0	0	0		0.000	43	2-Hexanone
48	0	0	0	0	0		0.000	129	Dibromochloromethane
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane
50	0	0	0	0	0		0.000	112	Chlorobenzene

Data Review: *ML*  
 Date: *8/19/98*

No.	MAT	FDR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.000	106	Ethylbenzene
53	0	0	0	0	0		0.000	106	m-/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoform
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	83	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0		0.000	120	n-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0		0.000	126	2-Chlorotoluene
64	0	0	0	0	0		0.000	126	4-Chlorotoluene
65	0	0	0	0	0		0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	119	tert-Butylbenzene
67	0	0	0	0	0		0.000	105	1,2,4-Trimethylbenzene
68	0	0	0	0	0		0.000	105	sec-Butylbenzene
69	0	0	0	0	0		0.000	119	p-Cymene
70	0	0	0	0	0		0.000	146	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	146	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	91	Benzyl chloride
73	0	0	0	0	0		0.000	91	n-Butylbenzene
74	0	0	0	0	0		0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.000	75	1,2-Dibromo-3-chloropropane
76	57	33	65	-3	16904	bv	19.352	180	1,2,4-Trichlorobenzene
77	76	51	87	-5	17800	bb	19.532	225	Hexachlorobutadiene
78	0	0	0	0	0		0.000	128	Naphthalene
79	0	0	0	0	19356	m	<del>19.762</del>	180	1,2,3-Trichlorobenzene

YL 8/19/84

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	78	99	1	2574448	bb	5.301	168	Pentafluorobenzene
2	100	97	99	0	2726140	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	-1	2355716	bv	10.351	117	Chlorobenzene-d5
4	100	76	100	-2	860176	bv	15.712	152	1,4-Dichlorobenzene-d4
5	100	84	99	0	1077964	bv	5.181	113	Dibromofluoromethane
6	100	91	97	0	3394004	bv	8.001	98	Toluene-d8
7	100	91	93	-1	1044408	bv	12.651	95	4-Bromo Fluorobenzene
8	<del>57</del>	<del>33</del>	<del>66</del>	<del>5</del>	<del>26612</del>	<del>vv</del>	<del>1.175</del>	<del>FP</del>	<del>39 1,3-Butadiene</del>
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	57	40	55	4	<del>8612</del>	<del>A</del>	<del>5.650</del>	<del>FP</del>	<del>73 MTBE</del>
11	69	57	59	2	<del>13896</del>	<del>bb</del>	<del>5.200</del>	<del>FP</del>	<del>57 n-Hexane</del>
12	55	48	62	13	<del>23408</del>	<del>A</del>	<del>1.470</del>	<del>FP</del>	<del>42 1,2-Epoxybutane</del>
13	64	47	57	1	<del>63292</del>	<del>A</del>	<del>5.391</del>	<del>FP</del>	<del>57 Iso-Octane</del>
14	44	28	69	-12	<del>266764</del>	<del>bb</del>	<del>6.501</del>	<del>FP</del>	<del>55 Ethyl acrylate</del>

M8/19/98

17-Aug-98 15:51

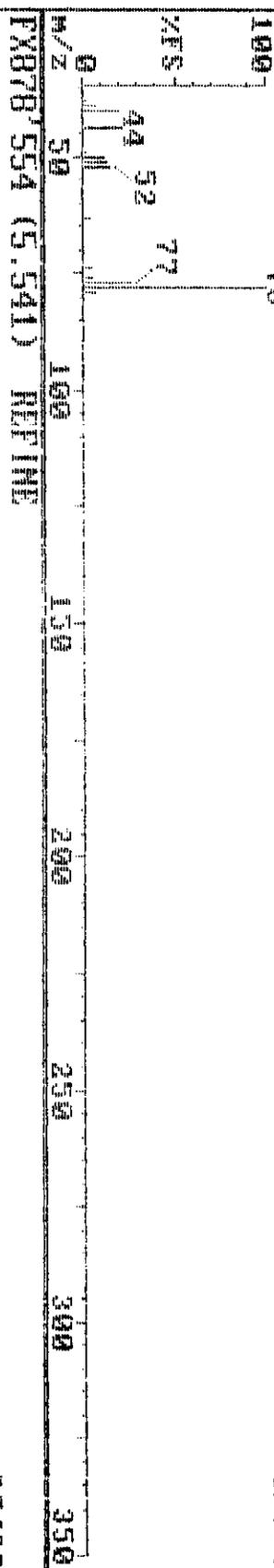
Triangle Laboratories, Inc. (919) 544-5729

Sample: UOSTMUK T/TC

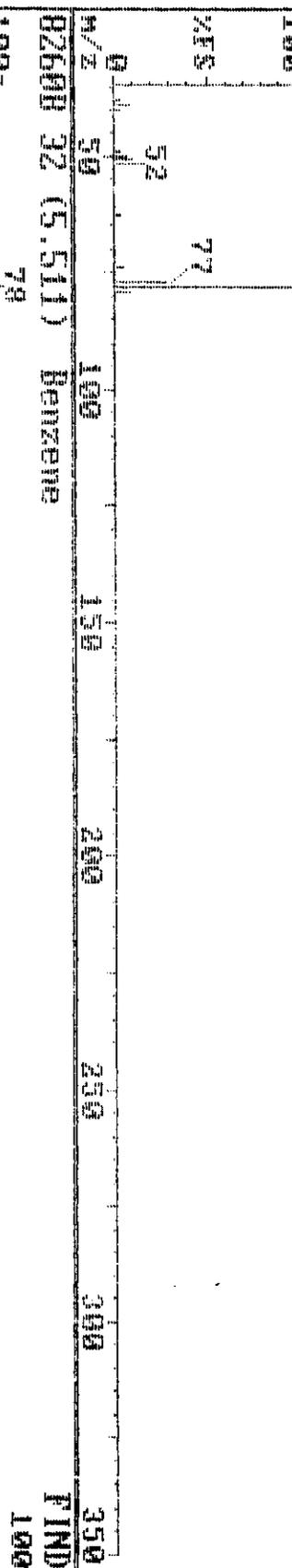
Instrument F

PX878 554 (5.541)

21760



20480



FIND  
100



17-Aug-98 15:51

Triangle Laboratories, Inc.

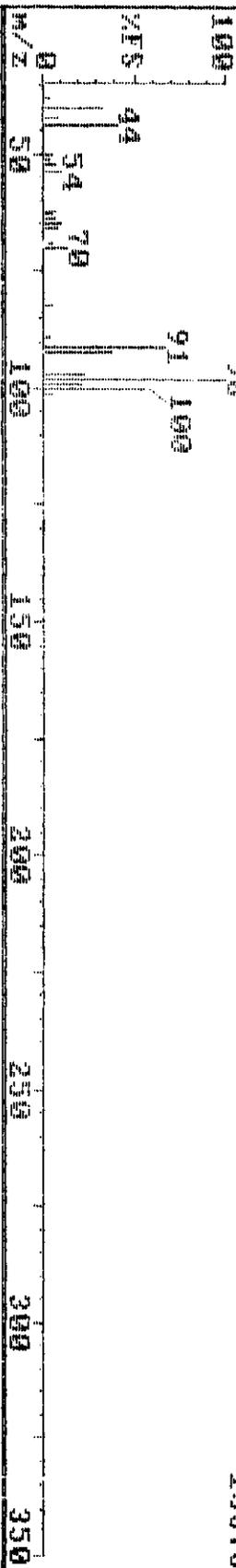
(919) 544-5729

Sample: UOSTMUK T/TC

Instrument F

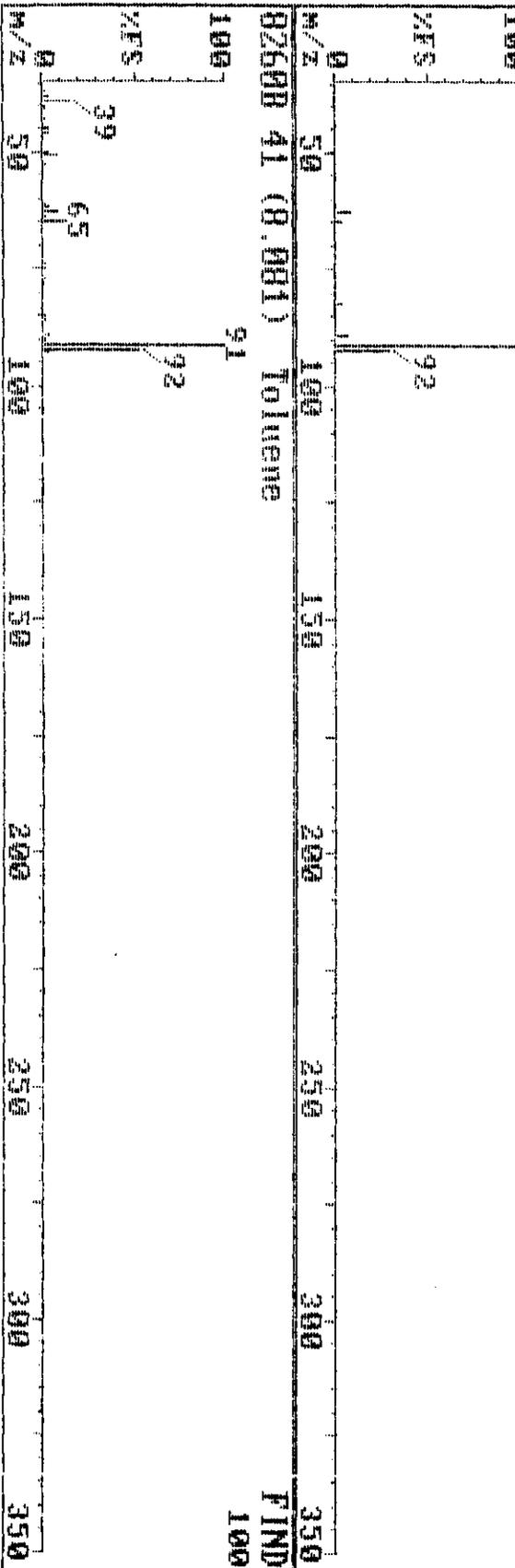
FX878 818 (8.181)

13376



FX878 818 (8.181) REFINE

8256



82600 41 (8.081) Toluene

FIND 100

**Pacific Environmental Services**

**Project Number: 46297**  
**Sample File: FX894**

**Method 8260 VOST**  
**Sample ID: VOSTBLK081898**

<b>Client Project: Hotmix</b>	<b>Date Received: / /</b>	<b>Response File: ICALF814</b>
<b>TLI ID: VOSTBLK081898</b>	<b>Date Analyzed : 08/18/98</b>	

<b>Analyte</b>	<b>Amount</b> ug	<b>FLAG</b>	<b>RT</b>	<b>Det. Limit</b> ug	<b>Quan. Limit</b> ug
Pentafluorobenzene		IS 1	5.29		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.006	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride		U		0.001	0.05
Acrylonitrile		U		0.021	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.005	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.06		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.023	J	5.51		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46297

Sample File: FX894

Method 8260 VOST

Sample ID: VOSTBLK081898

Client Project: Hotmix  
 TLI ID: VOSTBLK081898

Date Received: / /

Response File: ICALF814

Date Analyzed : 08/18/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.007	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.006	0.05
Toluene	0.008	J	8.07		0.05
trans-1,3-Dichloropropene		U		0.002	0.05
1,1,2-Trichloroethane		U		0.002	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.33		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.002	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.004	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.67		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.004	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:44 08/24/1998

Pacific Environmental Services

Project Number: 46297

Sample File: FX894

Method 8260 VOST

Sample ID: VOSTBLK081898

Client Project: Hotmix  
TLI ID: VOSTBLK081898

Date Received: / /

Response File: ICALF814

Date Analyzed : 08/18/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.255	5.16	1	102
Toluene-d <sub>8</sub>	0.317	7.98	2	127
4-Bromofluorobenzene	0.265	12.63	2	106

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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Printed: 17:44 08/24/1998

**Pacific Environmental Services**

Project Number: 46297  
Sample File: FX894

Method 8260 VOST  
Sample ID: VOSTBLK081898

Client Project: Hotmix  
TLI ID: VOSTBLK081898

Date Received: / /

Response File: ICALF818

Date Analyzed : 08/18/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.29		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane		U		0.001	0.25
1,2-Epoxybutane		U		0.020	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.06		
Ethyl acrylate		U		0.004	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 18:00 08/24/1998

10-Aug-98 12:46

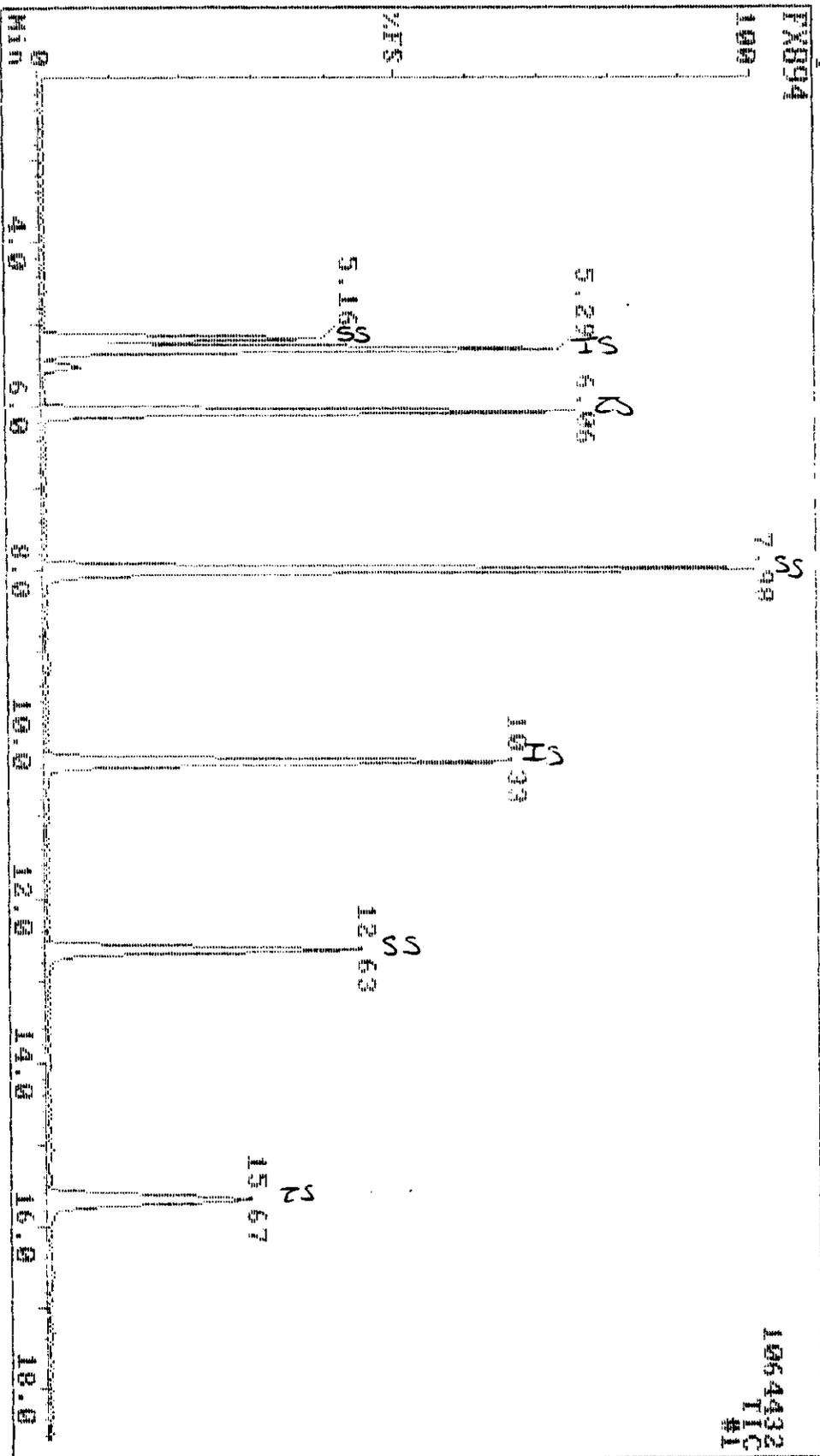
Triomphe Laboratories, Inc.

019 54-5729

Sample: UO8TBLX

TIC

Instrument F



1064432  
TIC  
#1

Data Review: *ML*  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name	
1	100	85	99	0	1969692	bb	5.291	168	Pentafluorobenzene	
2	100	97	98	0	2162904	bv	6.041	119	1,4-Difluorobenzene	
3	100	95	95	0	1665360	bv	10.341	117	Chlorobenzene-d5	
4	100	77	97	-1	600868	bv	15.672	152	1,4-Dichlorobenzene-d4	
5	100	97	99	-1	846372	bb	5.161	113	Dibromofluoromethane	
6	100	93	97	0	2796248	bv	7.281	28	Toluene-d3	
7	100	91	93	0	778432	bv	12.651	95	4-Bromofluorobenzene	
8	0	0	0	0	0		0.000	85	0-chlorochloromethane	
9	0	0	0	0	0		0.000	50	Chloromethane	
10	0	0	0	0	0		0.000	62	Vinyl Chloride	
11	0	0	0	0	0		0.000	94	Bromomethane	
12	0	0	0	0	0		0.000	64	Chloroethane	
13	0	0	0	0	0		0.000	101	1-trichlorofluoromethane	
14	0	0	0	0	0		0.000	26	1,1-Dichloroethane	
15	0	0	0	0	0		0.000	141	Iodomethane	
16	0	0	0	0	0		0.000	71	Carbon disulfide	
17	60	11	35	2	<del>5304</del>	<del>tr</del>	<del>2.842</del>	<del>FP</del>	40	acetone
18	0	0	0	0	0		0.000	41	Allyl chloride	
19	0	0	0	0	0		0.000	33	Bulkybenzyl chloride	
20	0	0	0	0	0		0.000	53	acrylonitrile	
21	0	0	0	0	0		0.000	25	trans-1,2-Dichloroethene	
22	0	0	0	0	0		0.000	65	1,1-Dichloroethane	
23	0	0	0	0	0		0.000	45	Vinyl acetate	
24	0	0	0	0	0		0.000	77	2,2-Dichloropropane	
25	0	0	0	0	0		0.000	26	cis-1,2-Dichloroethene	
26	0	0	0	0	0		0.000	45	2-Butanone	
27	0	0	0	0	0		0.000	32	Chloroform	
28	0	0	0	0	0		0.000	128	Bromochloromethane	
29	0	0	0	0	0		0.000	97	1,1,1-trichloroethane	
30	0	0	0	0	0		0.000	117	Carbon tetrachloride	
31	0	0	0	0	0		0.000	75	1,1-Dichloropropene	
32	100	85	95	0	192064	bb	5.511	73	Benzene	
33	0	0	0	0	0		0.000	62	1,2-Dichloroethane	
34	0	6	0	0	0		0.000	130	Trichloroethene	
35	0	0	0	0	0		0.000	63	1,2-Dichloropropane	
36	0	0	0	0	0		0.000	93	Dibromomethane	
37	0	0	0	0	0		0.000	41	Methyl methacrylate	
38	0	0	0	0	0		0.000	83	Bromodichloromethane	
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene	
40	35	2	33	3	<del>9058</del>	<del>bb</del>	<del>7.081</del>	<del>FP</del>	43	4-Methyl-2-pentanone
41	70	39	73	-1	51592	bb	8.071	92	Toluene	
42	0	0	0	0	0		0.000	75	trans-1,3-Dichloropropene	
43	0	0	0	0	0		0.000	97	1,1,2-trichloroethane	
44	0	0	0	0	0		0.000	62	Ethyl methacrylate	
45	0	0	0	0	0		0.000	164	Tetrachloroethene	
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane	
47	0	0	0	0	0		0.000	43	2-Hexanone	
48	0	0	0	0	0		0.000	129	Dibromochloromethane	
49	0	0	0	0	0		0.000	107	1,2-Dibromoethane	
50	0	0	0	0	0		0.000	112	Chlorobenzene	

Data Review: YK  
Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.F	Flags	RT	QM	Name
51	0	0	0	0	0			0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0			0.000	106	Ethylbenzene
53	0	0	0	0	0			0.000	106	m-/p-Xylene
54	0	0	0	0	0			0.000	106	o-Xylene
55	0	0	0	0	0			0.000	104	Styrene
56	0	0	0	0	0			0.000	173	Bromotoluene
57	0	0	0	0	0			0.000	105	Cumene
58	0	0	0	0	0			0.000	85	1,1,2,2-Tetrachloroethane
59	0	0	0	0	0			0.000	156	Bromobenzene
60	0	0	0	0	0			0.000	75	1,2,3-Trichloropropane
61	0	0	0	0	0			0.000	120	m-Propylbenzene
62	0	0	0	0	0			0.000	75	trans-1,4-Dichloro-2-butene
63	0	0	0	0	0			0.000	176	2-Chloro-1,4-dioxane
64	0	0	0	0	0			0.000	176	4-Chloro-1,4-dioxane
65	0	0	0	0	0			0.000	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0			0.000	112	tert-Butylbenzene
67	0	0	0	0	0			0.000	105	o,p-Dimethylbenzene
68	0	0	0	0	0			0.000	105	sec-Butylbenzene
69	0	0	0	0	0			0.000	112	isobutene
70	0	0	0	0	0			0.000	116	1,3-Dichlorobenzene
71	0	0	0	0	0			0.000	140	1,4-Dichlorobenzene
72	0	0	0	0	0			0.000	91	acrylonitrile
73	0	0	0	0	0			0.000	21	o-tolylbenzene
74	0	0	0	0	0			0.000	146	1,2-Dichlorobenzene
75	0	0	0	0	0			0.000	75	1,2-Dichloro-3-chloropropane
76	0	0	0	0	0			0.000	180	1,2,4-Trichlorobenzene
77	0	0	0	0	0			0.000	225	Hexachlorobutadiene
78	0	0	0	0	0			0.000	128	Naphthalene
79	0	0	0	0	0			0.000	180	1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	85	99	0	1969692	bb	5.291	168	Pentafluorobenzene
2	100	97	98	0	2162904	bv	6.061	114	1,4-DiFluorobenzene
3	100	95	95	-1	1665360	bv	10.331	117	Chlorobenzene-d5
4	100	77	97	-3	600863	bv	15.672	152	1,4-Dichlorobenzene-d4
5	100	97	99	-1	846370	bb	5.161	113	Dibromofluoromethane
6	100	95	97	-1	2726248	bv	7.981	98	Toluene-d8
7	100	91	93	-1	778432	bv	12.631	95	4-Bromo Fluorobenzene
8	0	0	0	0	0		0.000	39	1,3-Butadiene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	0	0	0	0	0		0.000	75	MTBE
11	31	25	25	-1	<del>2950135</del>	<del>bv</del>	<del>3.500</del>	57	n-Hexane <i>PP</i>
12	0	0	0	0	0		0.000	42	1,2-Epoxybutane
13	0	0	0	0	0		0.000	57	iso-Octane
14	0	0	0	0	0		0.000	55	Ethyl acrylate

*MCS/19/98*

10-Aug-90 12:46

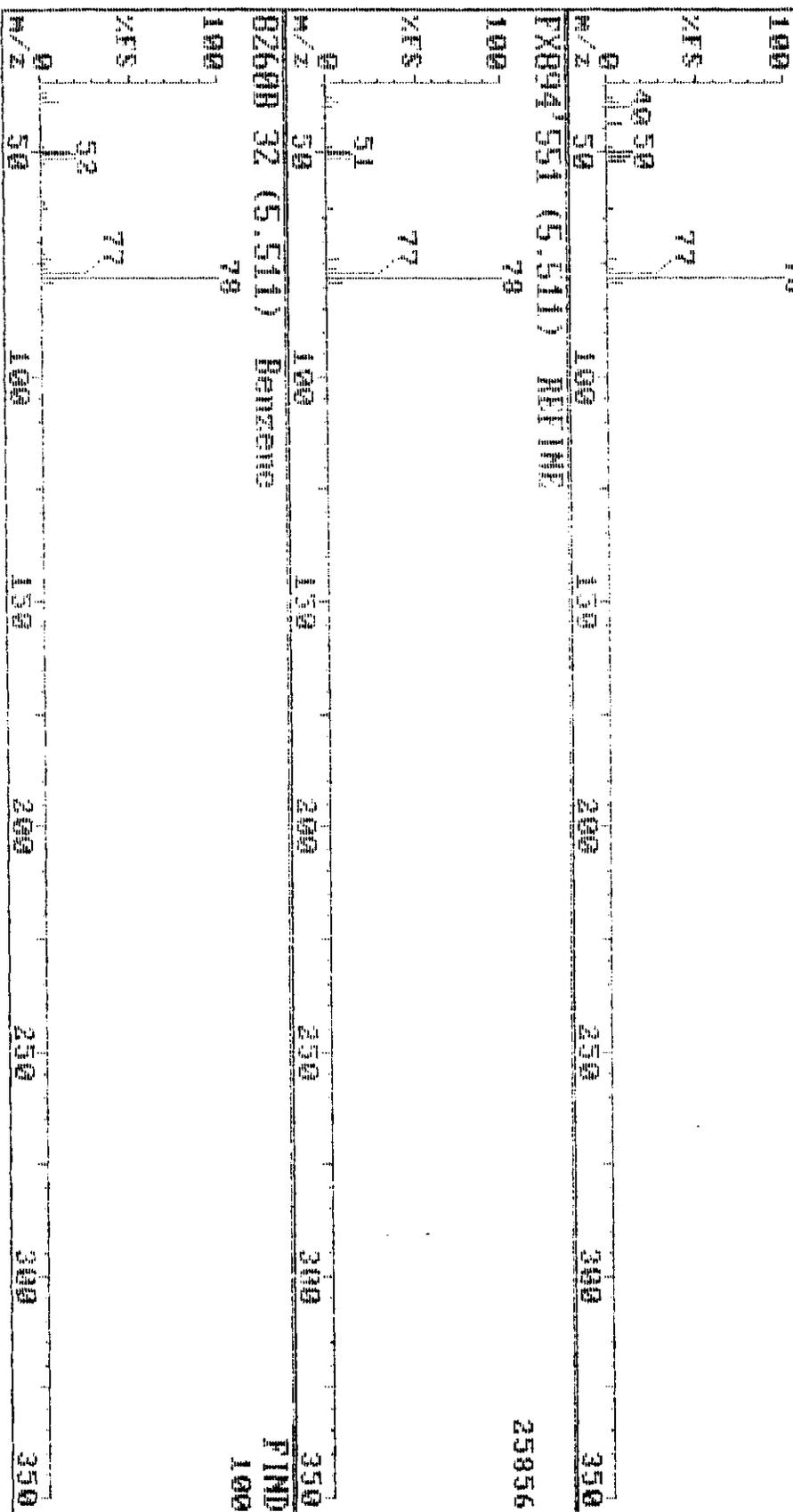
Triangle Laboratories, Inc. (910) 544-5729

Sample: UO8TRK T/IC

Instrument F

FXB94 551 (5.511)

27392

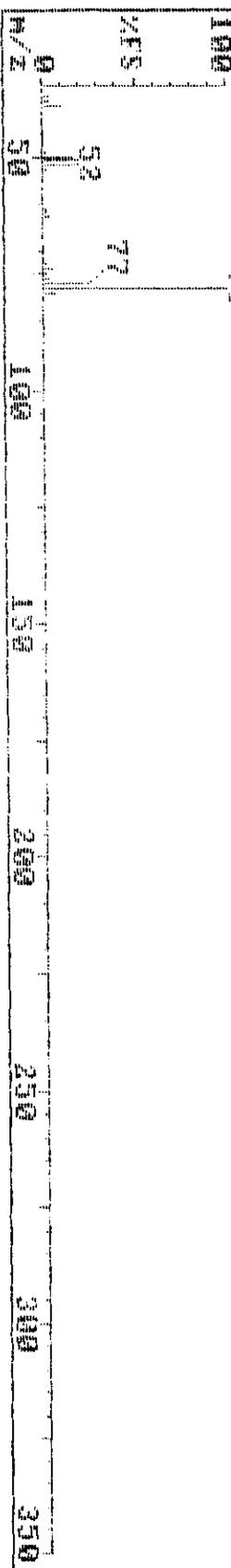


FXB94 551 (5.511) REFINE

25856

BZ608 32 (5.511) Benzene

PIND  
100



10-Aug-98 12:46

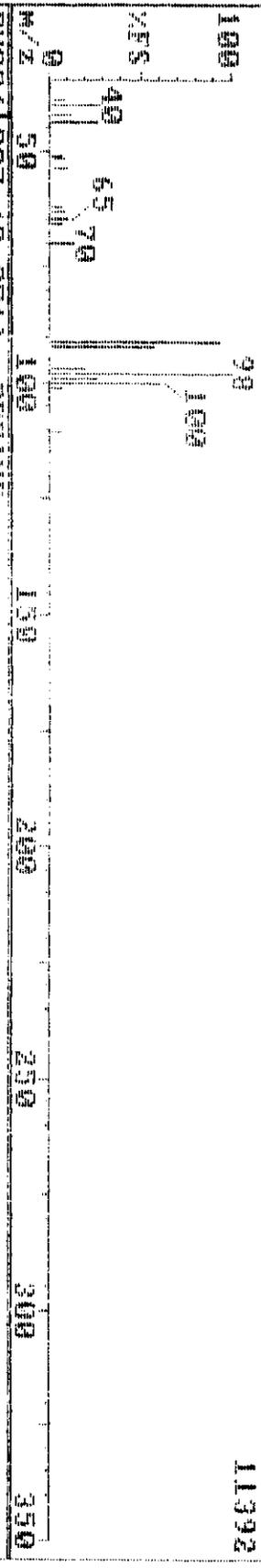
Triangle Laboratories, Inc. (910) 544-5729

Sample: VOSTBK T/TC

Instrument F

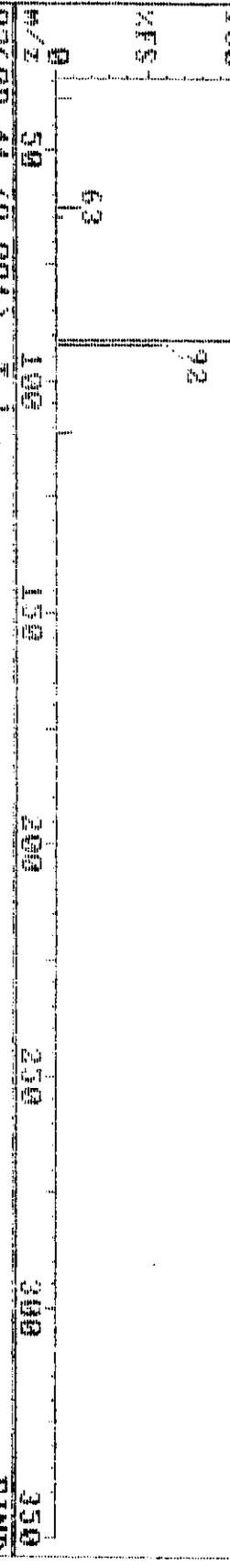
FXB94 887 (8.871)

11392



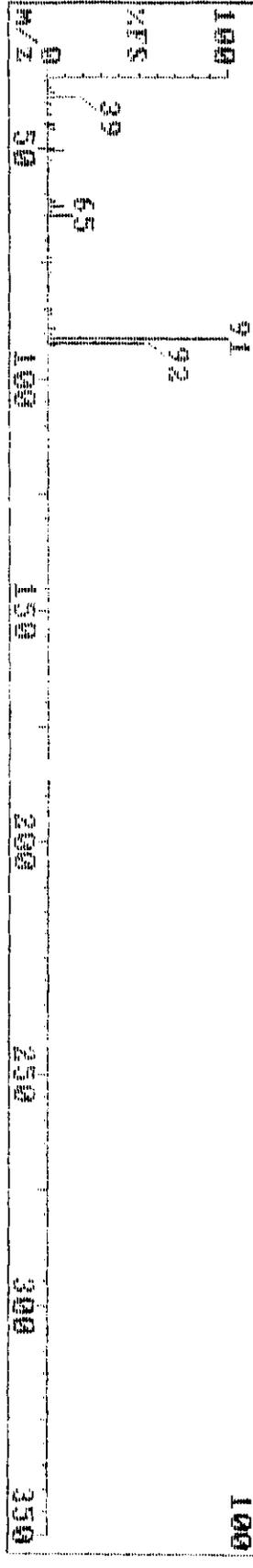
FXB94 887 (8.871) REFINE

9792



HZ6M 41 (8.881) TOluene

FIND 100



**Pacific Environmental Services**

Project Number: 46297  
 Sample File: HW705

Method 8260 VOST  
 Sample ID: VOSTBLK081998

Client Project: Hotmix  
 TLI ID: VOSTBLK081998

Date Received: / /

Response File: ICALH809

Date Analyzed : 08/19/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
Chloromethane	0.003	J	0.96		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.002	J	3.06		0.05
Acrylonitrile		U		0.006	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.003	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.77		
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46297

Sample File: HW705

Method 8260 VOST  
Sample ID: VOSTBLK081998

Client Project: Hotmix  
TLI ID: VOSTBLK081998

Date Received: / /

Response File: ICALH809

Date Analyzed : 08/19/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.002	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.003	J	7.74		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	9.96		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene	0.001	J	10.56		0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.10		
Cumene	0.001	J	12.03		0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 18:08 08/24/1998

Pacific Environmental Services

Project Number: 46297  
Sample File: HW705

Method 8260 VOST  
Sample ID: VOSTBLK081998

Client Project: Hotmix  
TLI ID: VOSTBLK081998

Date Received: / /

Response File: ICALH809

Date Analyzed : 08/19/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.273	4.92	1	109
Toluene-d <sub>8</sub>	0.280	7.66	2	112
4-Bromofluorobenzene	0.293	12.25	2	117

Reviewed by \_\_\_\_\_

YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 18:08 08/24/1998

**Pacific Environmental Services**

Project Number: 46297

Sample File: HW705

Method 8260 VOST  
Sample ID: VOSTBLK081998

Client Project: Hotmix  
TLI ID: VOSTBLK081998

Date Received: / /

Response File: ICALH819

Date Analyzed: 08/19/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane	0.001	J	3.67		0.25
1,2-Epoxybutane		U		0.017	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	5.77		
Ethyl acrylate		U		0.001	0.25

Reviewed by YR Date 8/24/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
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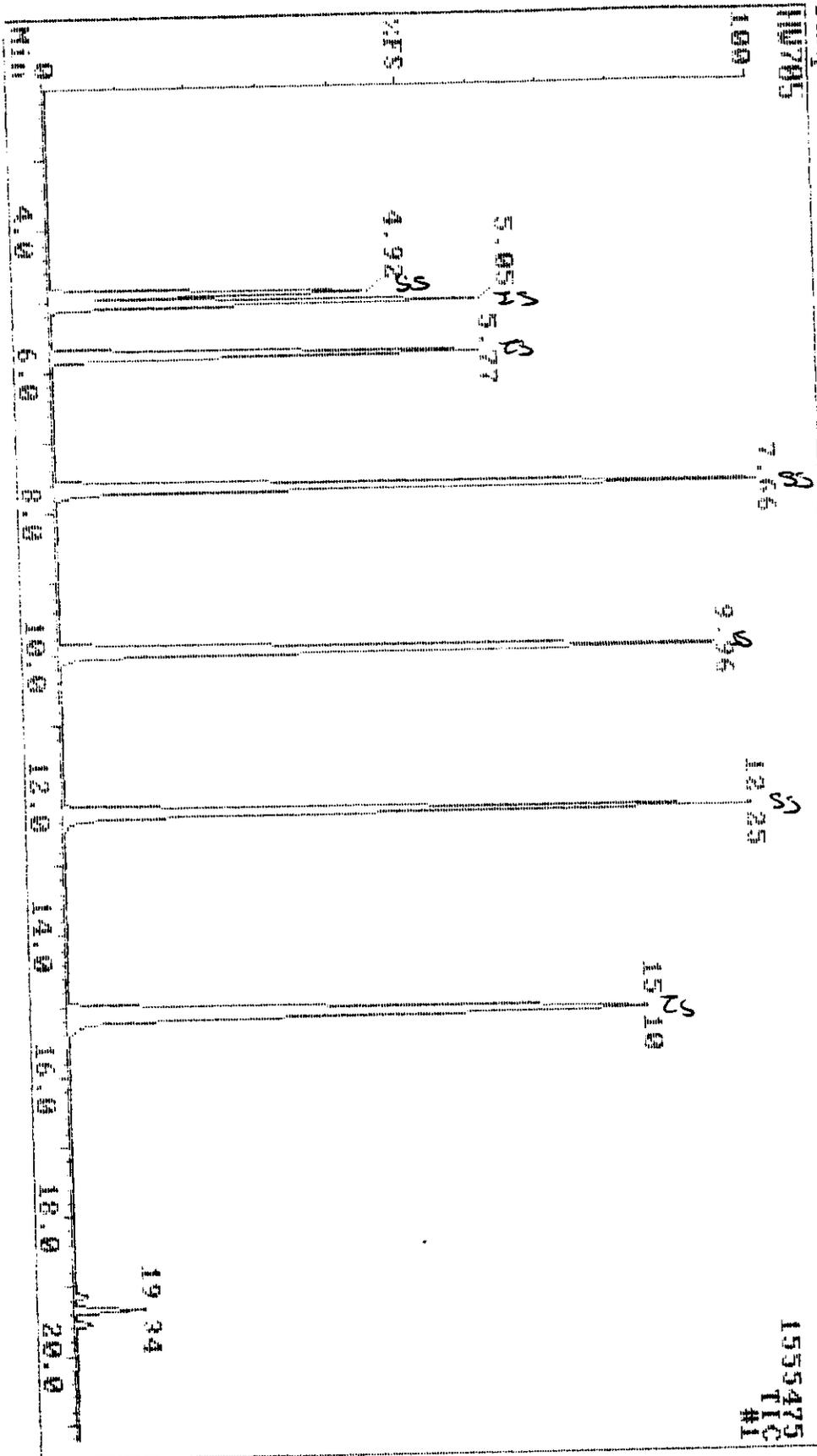
Savar v3.7  
Printed: 18:00 08/24/1998

04-19-90 02:36

Sample: UOSTMUK T/10

Tri-Quila Laboratories, Inc. (919) 544-5729

Instrument H



Data Review: *VL*  
Date: 8/19/94

No.	MAT	FDR	REV	Delta	Area	P.Flags	RI	QM Name
1	100	85	98	0	2415996	bb	5.04	168 Pentafluorobenzene
2	100	97	99	0	2874730	bv	5.77	114 1,4-Difluorobenzene
3	100	95	95	0	4260740	bv	9.96	117 Chlorobenzene-d3
4	100	82	98	2	2872176	bv	13.10	152 1,4-Dichlorobenzene-d4
5	100	98	100	1	1407888	bb	4.92	113 Dibromofluoromethane
6	100	93	97	1	4508104	bv	7.66	98 Toluene-d8
7	100	89	93	0	2533348	bv	12.25	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	85 Dichlorodifluoromethane
9	0	0	0	0	0		0.00	50 Chloromethane
10	0	0	0	0	0		0.00	62 Vinyl Chloride
11	0	0	0	0	0		0.00	94 Bromomethane
12	0	0	0	0	0		0.00	64 Chloroethane
13	0	0	0	0	0		0.00	101 Trichlorofluoromethane
14	0	0	0	0	0		0.00	96 1,1-Dichloroethane
15	0	0	0	0	0		0.00	42 Iodomethane
16	0	0	0	0	0		0.00	76 Carbon Disulfide
17	52	18	85	8	<del>3750</del>		<del>2.77</del>	<del>43 Acetone</del>
18	0	0	0	0	0		0.00	41 Allyl Chloride
19	35	59	80	-1	6220	bb	3.06	34 Methylene chloride
20	0	0	0	0	0		0.00	53 Acrylonitrile
21	0	0	0	0	0		0.00	96 trans-1,2-Dichloroethane
22	0	0	0	0	0		0.00	53 1,1-Dichloroethane
23	0	0	0	0	0		0.00	43 Vinyl acetate
24	0	0	0	0	0		0.00	17 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethane
26	0	0	0	0	0		0.00	43 2-Butanone
27	0	0	0	0	0		0.00	83 Chloroform
28	0	0	0	0	0		0.00	128 Bromochloromethane
29	0	0	0	0	0		0.00	97 1,1,1-Trichloroethane
30	0	0	0	0	0		0.00	117 Carbon tetrachloride
31	0	0	0	0	0		0.00	75 1,1-Dichloropropene
32	0	0	0	0	0		0.00	78 Benzene
33	0	0	0	0	0		0.00	62 1,2-Dichloroethane
34	0	0	0	0	0		0.00	130 Trichloroethene
35	0	0	0	0	0		0.00	63 1,2-Dichloropropane
36	0	0	0	0	0		0.00	93 Dibromomethane
37	0	0	0	0	0		0.00	41 Methyl methacrylate
38	0	0	0	0	0		0.00	83 Bromodichloromethane
39	0	0	0	0	0		0.00	75 cis-1,3-Dichloropropene
40	43	3	70	2	<del>28138</del>		<del>7.44</del>	<del>43 4-Methyl-2-pentanone</del>
41	76	43	81	-1	33028	bb	7.74	92 Toluene
42	0	0	0	0	0		0.00	75 trans-1,3-Dichloropropene
43	0	0	0	0	0		0.00	97 1,1,2-Trichloroethane
44	0	0	0	0	0		0.00	69 Ethyl methacrylate
45	0	0	0	0	0		0.00	164 Tetrachloroethene
46	0	0	0	0	0		0.00	76 1,3-Dichloropropane
47	0	0	0	0	0		0.00	43 2-Hexanone
48	0	0	0	0	0		0.00	129 Dibromochloromethane
49	0	0	0	0	0		0.00	107 1,2-Dibromoethane
50	0	0	0	0	0		0.00	112 Chlorobenzene

10543 m

0.961

~~3750~~ FP

FP

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name	
51	0	0	0	0	0		0.00	131	1,1,1,2-Tetrachloroethane	
52	0	0	0	0	0		0.00✓	106	Ethylbenzene	
53	51	45	43	2	3212	bb	10.56	106	m-/p-Xylene	
54	0	0	0	0	0		0.00	106	o-Xylene	
55	0	0	0	0	0		0.00	104	Styrene	
56	0	0	0	0	0		0.00	173	Bromoform	
57	63	45	59	0	12144	bb	12.03	105	Cumene	
58	0	0	0	0	0		0.00	35	1,1,2,2-Tetrachloroethane	
59	0	0	0	0	0		0.00	156	Bromobenzene	
60	0	0	0	0	0		0.00	75	1,2,3-Trichloropropane	
61	68	56	56	-2	<del>3024</del>	<del>m</del>	<del>12.87</del>	<del>FP</del>	<del>120</del>	<del>n-Propylbenzene</del>
62	16	11	23	-15	<del>456</del>	<del>bb</del>	<del>12.73</del>	<del>FP</del>	<del>75</del>	<del>trans-1,4-Dichloro-2-but</del>
63	57	47	47	0	<del>275</del>	<del>bb</del>	<del>12.57</del>	<del>FP</del>	<del>126</del>	<del>2-Chlorotoluene</del>
64	0	0	0	0	0		0.00	126	4-Chlorotoluene	
65	70	57	57	1	<del>10770</del>	<del>a</del>	<del>15.33</del>	<del>FP</del>	<del>105</del>	<del>1,3,5-Trimethylbenzene</del>
66	86	69	69	1	27028	a	14.11	119	tert-Butylbenzene	
67	63	52	52	0	12672	a	14.27	105	1,2,4-Trimethylbenzene	
68	88	70	70	0	48380	sv	14.77	105	sec-butylbenzene	
69	52	31	52	0	45240	a	14.30	119	o-Xylene	
70	71	52	64	1	18108	a	14.87	146	1,3-Dichlorobenzene	
71	0	0	0	0	<del>34648</del>	<del>m</del>	<del>15.71</del>	<del>FP</del>	<del>146</del>	<del>1,4-Dichlorobenzene</del>
72	0	0	0	0	0		0.00	91	Benzyl chloride	
73	78	64	64	1	38504	a	15.89	91	n-Butylbenzene	
74	63	54	54	1	13808	a	16.47	146	1,2-Dichlorobenzene	
75	0	0	0	0	0		0.00	75	1,2-Dibromo-3-chloropropane	
76	100	83	83	-2	34652	bb	19.15	130	1,2,4-Trichlorobenzene	
77	89	58	95	-3	73944	bb	19.34	225	Hexachlorobutadiene	
78	94	73	81	-1	55164	sv	19.34	128	Naphthalene	
79	100	88	88	-2	44134	cb	19.51	130	1,2,3-Trichlorobenzene	

MS19/98

No.	MAT	FDR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	85	98	0	2415996	bb	5.04	168	Pentafluorobenzene
2	100	97	99	1	2874780	bv	5.77	114	1,4-Difluorobenzene
3	100	95	95	0	4260740	bv	9.96	117	Chlorobenzene-d5
4	100	82	98	5	2872176	bv	15.10	152	1,4-Dichlorobenzene-d4
5	100	98	100	2	1407888	bb	4.92	115	Dibromofluoromethane
6	100	93	97	1	4508104	bv	7.66	98	Toluene-d8
7	100	89	93	2	2533348	bv	12.25	95	4-Bromofluorobenzene
8	0	0	0	0	0		0.00	79	1,3-Butadiene
9	0	0	0	0	0		0.00	106	Vinyl bromide
10	0	0	0	0	0		0.00	73	MTBE
11	62	50	50	1	3692	bb	3.67	57	n-Hexane
12	0	0	0	0	0		0.00	42	1,2-Epoxybutane
13	0	0	0	0	0		0.00	57	iso-Octane
14	0	0	0	0	0		0.00	55	Ethyl Acrylate

9-Aug-98 10:06

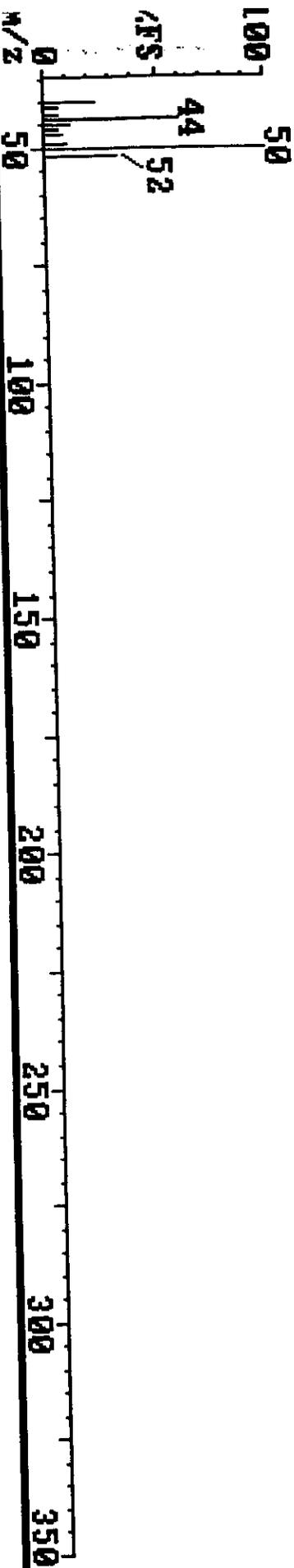
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-1-3-A T 214-1-8A TL1#46297

Instrument H

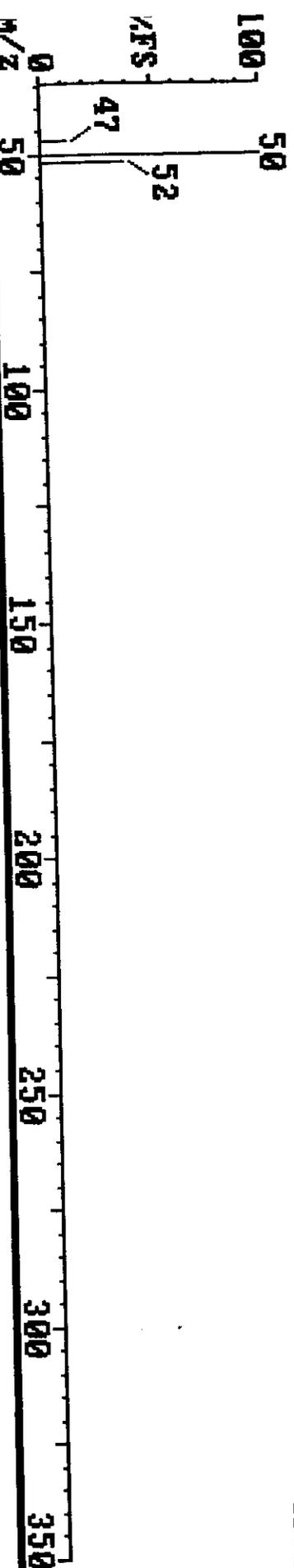
HW713 96 (0.960)

6464



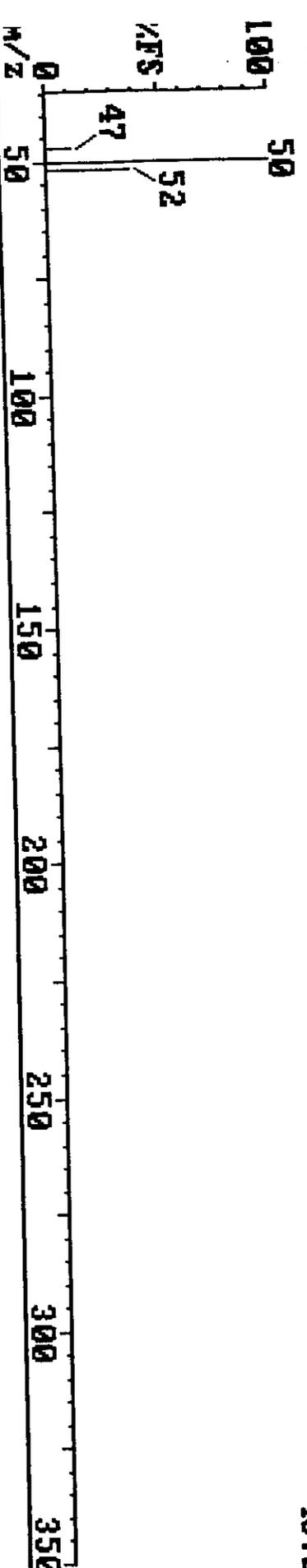
HW713'96 (0.961) REFINE

4672



HW713'96 (0.961) REFINE

4672



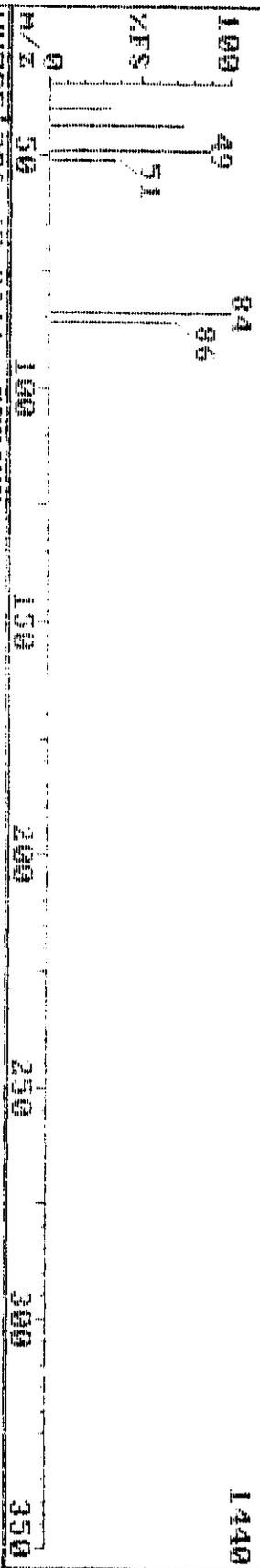
MO-19-90 02:36

Sample: VOSTBLK T/TC

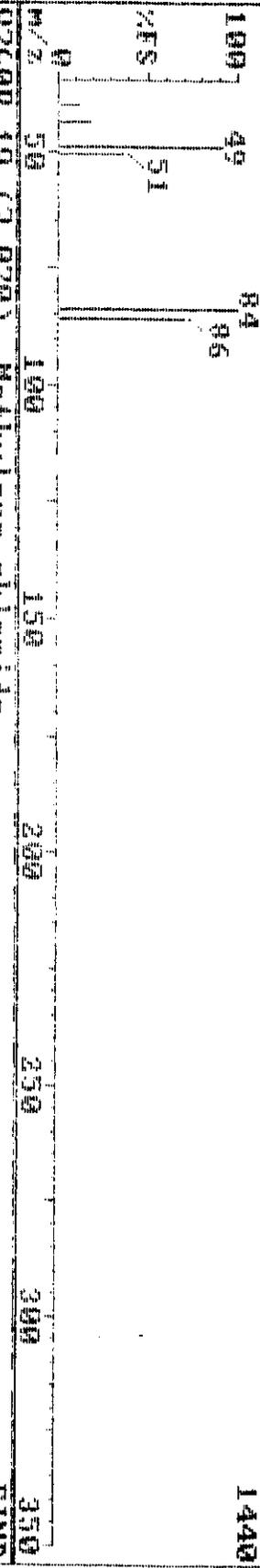
Triangle Laboratories, Inc. (919) 544-5729

Instrument II

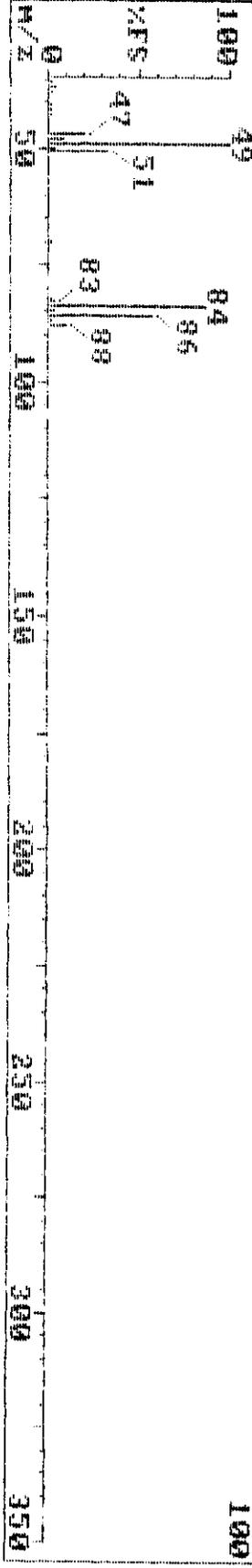
HM705 306 (3.060)



HM705 306 (3.061) REFINE



02608 19 (3.070) Methylene chloride



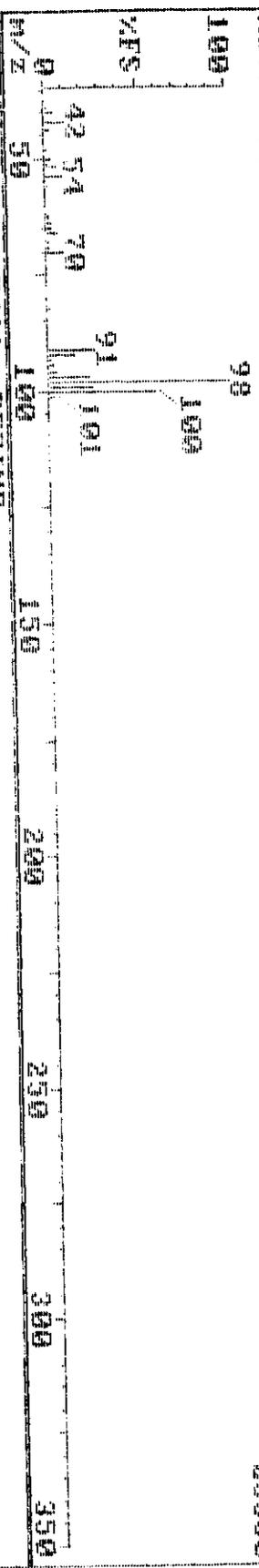
00-19-98 02:36 Triangle Laboratories, Inc. (919) 544-5729

Sample: UOSTBIK T/TC

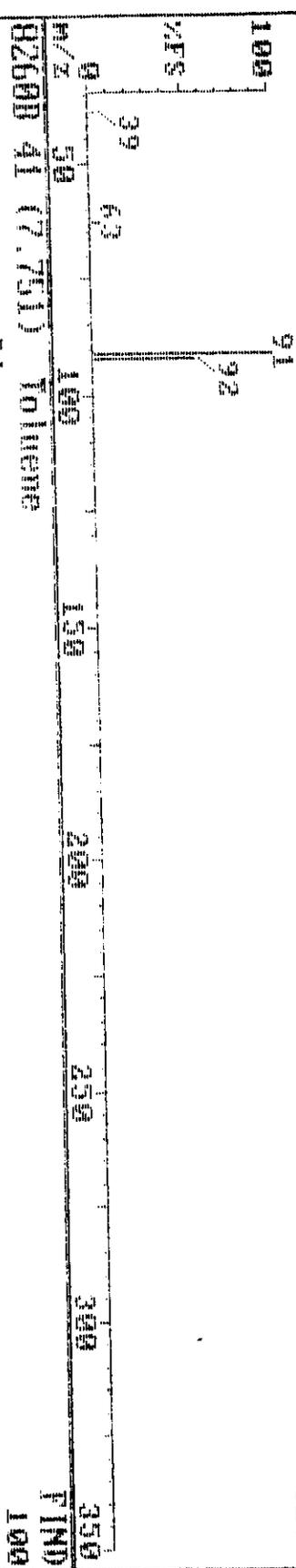
Instrument H

HW705 774 (7.741)

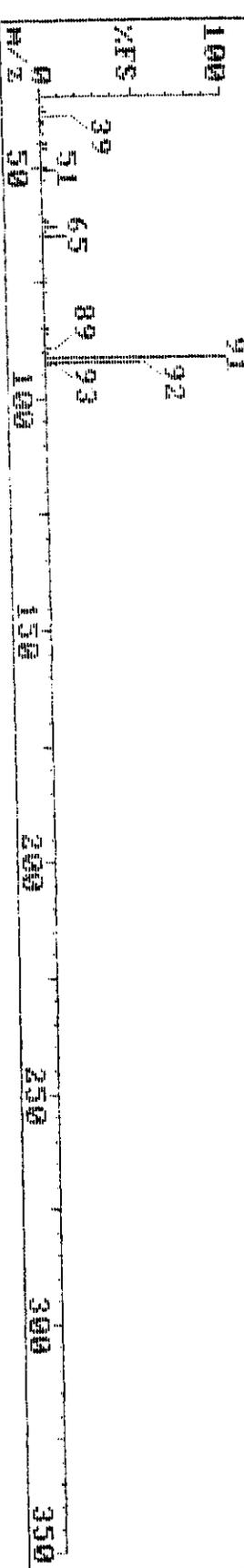
26880



6272



FIND 100



FIND 100

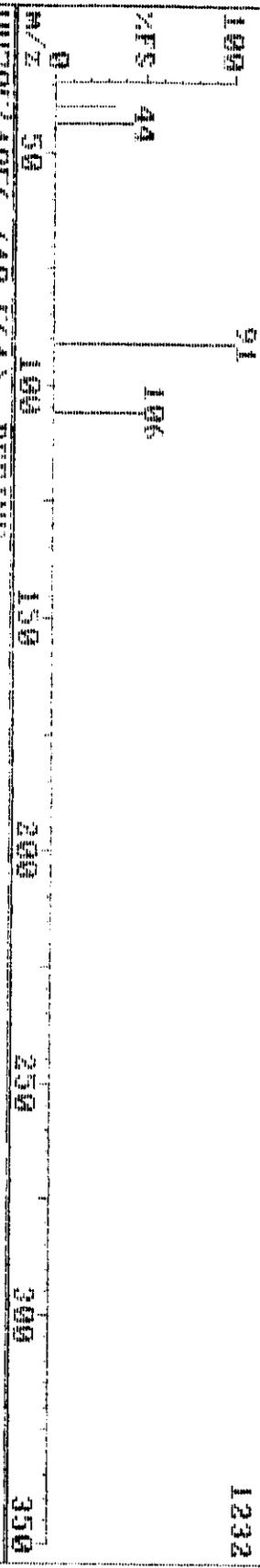
08-19-90 02:36

Triangle Laboratories, Inc. (919) 544-5729

Sample: UOSTMUK T/TC

Instrument H

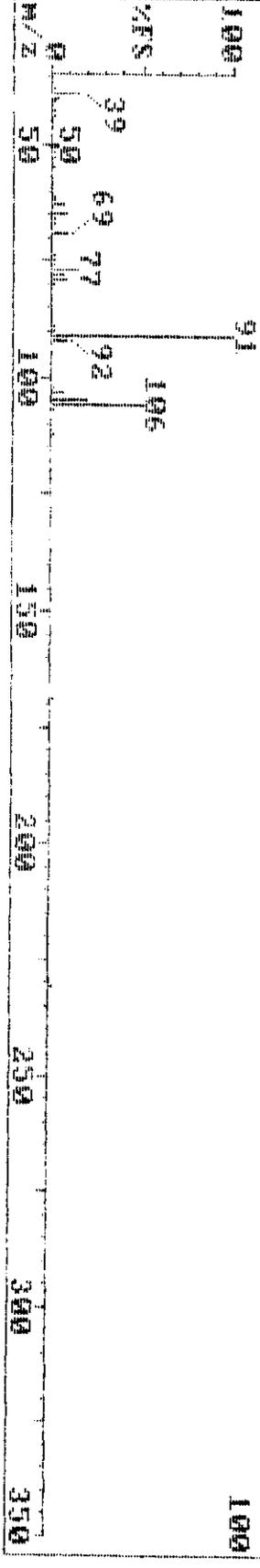
HU705 1656 (10.561)



HU705 1656 (10.561) REFIND



HU705 53 (10.541) m-p Xylene



08-19-99 02:36

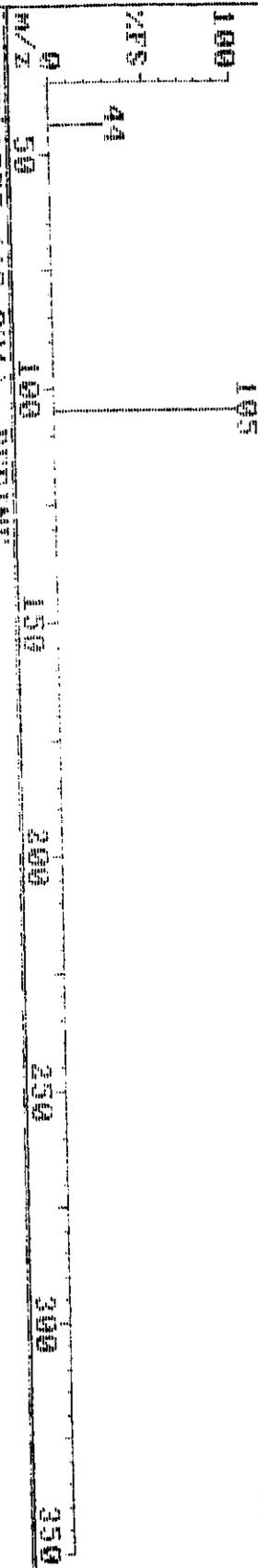
Triangje Laboratories, Inc. (919) 544-5729

Instrument H

Sample: UO8THX T/T/C

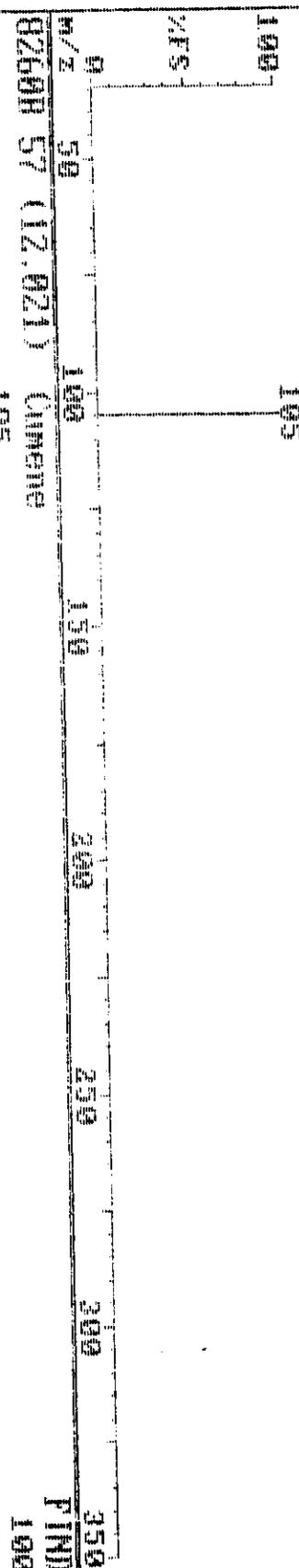
HW705 1203 (12.031)

1632



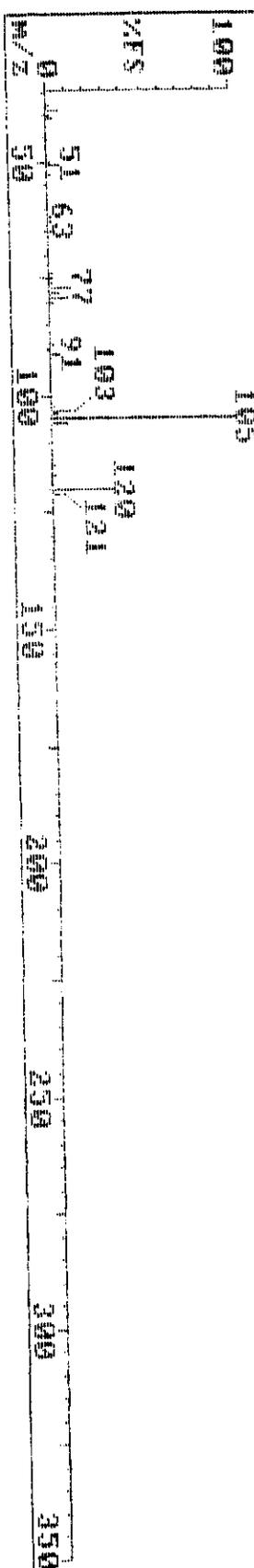
HW705 1203 (12.031) UO8THX

1632



0260H 57 (12.021) UO8THX

1632



00-19-90 02:36

Triangle Laboratories, Inc. (919) 544-5779

Sample: UGTHM 1/10

Instrument: H

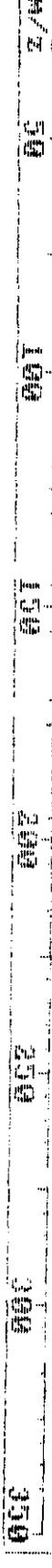
HM705 367 (3.670)



HM705 367 (3.671) HEPTAN



026BX 11 (3.660) n-HEXANE



CALIBRATION  
DATA

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**Triangle Laboratories, Inc.**  
801 Capitola Drive  
Durham, NC 27713-4411  
919-544-5729

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Triangle Laboratories, Inc.

Initial Calibration Curve

ICAL File: ICALH809

Date of Analysis :08/09/98

Analyte List: 8260

RF.10 HW551

RF.25 HW552

RF.50 HW553

RF.75 HW554

RF1.00 HW555

VOST Calibration.

Analyte	Flag	RF.10	RF.25	RF.50	RF.75	RF1.00	MEAN	%RSD
Pentafluorobenzene	I							
Dichlorodifluoromethane		0.617	0.695	0.639	0.610	0.715	0.655	7.2
Chloromethane	P	0.387	0.407	0.363	0.343	0.388	0.377	6.6
Vinyl Chloride	C	0.439	0.497	0.449	0.438	0.517	0.468	7.8
Bromomethane		0.412	0.450	0.351	0.421	0.512	0.429	13.7
Chloroethane		0.248	0.276	0.215	0.239	0.292	0.254	11.9
Trichlorofluoromethane		1.009	1.058	0.965	1.028	1.245	1.061	10.2
1,1-Dichloroethene	C	0.442	0.502	0.482	0.381	0.515	0.464	11.7
Iodomethane		0.950	1.061	1.070	0.881	0.944	0.981	8.3
Carbon disulfide		1.060	1.160	1.129	0.896	1.018	1.053	9.9
Acetone		0.055	0.047	0.049	0.036	0.063	0.050	20.3
Allyl chloride		0.386	0.416	0.415	0.309	0.370	0.379	11.6
Methylene chloride		0.392	0.412	0.388	0.289	0.287	0.354	17.2
Acrylonitrile		0.045	0.039	0.041	0.035	0.026	0.037	19.7
trans-1,2-Dichloroethene		0.463	0.488	0.471	0.437	0.366	0.445	10.8
1,1-Dichloroethane	P	0.739	0.762	0.709	0.730	0.723	0.733	2.7
Vinyl acetate		0.409	0.391	0.405	0.395	0.391	0.398	2.1
2,2-Dichloropropane		0.631	0.686	0.667	0.662	0.686	0.667	3.4
cis-1,2-Dichloroethene		0.429	0.462	0.444	0.448	0.472	0.451	3.6
2-Butanone		0.073	0.059	0.061	0.060	0.064	0.063	8.8
Chloroform	C	0.756	0.799	0.759	0.751	0.790	0.771	2.8
Bromochloromethane		0.227	0.234	0.237	0.233	0.239	0.234	1.8
1,1,1-Trichloroethane		0.699	0.745	0.721	0.717	0.732	0.723	2.4
1,4-Difluorobenzene	I							
Carbon tetrachloride		0.641	0.532	0.501	0.628	0.704	0.601	13.9
1,1-Dichloropropene		0.659	0.513	0.491	0.606	0.673	0.589	14.2
Benzene		1.457	0.985	0.984	1.171	1.270	1.173	17.1
1,2-Dichloroethane		0.328	0.296	0.299	0.360	0.412	0.339	14.2
Trichloroethene		0.436	0.443	0.455	0.496	0.384	0.443	9.1
1,2-Dichloropropane	C	0.450	0.426	0.426	0.480	0.344	0.425	11.9
Dibromomethane		0.290	0.267	0.275	0.317	0.223	0.274	12.5
Methyl methacrylate		0.120	0.111	0.116	0.123	0.063	0.107	23.4
Bromodichloromethane		0.667	0.644	0.667	0.796	0.490	0.653	16.7
cis-1,3-Dichloropropene		0.635	0.623	0.609	0.712	0.509	0.618	11.8
4-Methyl-2-pentanone		0.204	0.150	0.159	0.179	0.166	0.172	12.1
Toluene	C	1.054	0.948	0.938	1.133	1.009	1.016	7.9
trans-1,3-Dichloropropene		0.522	0.462	0.461	0.539	0.552	0.507	8.5
1,1,2-Trichloroethane		0.381	0.321	0.305	0.364	0.362	0.347	9.2

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

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**Initial Calibration Curve**

ICAL File: ICALH809	Date of Analysis :08/09/98	Analyte List: 8260
RF.10 HW551	RF.25 HW552	RF.50 HW553
RF.75 HW554	RF1.00 HW555	

VOST Calibration.

Analyte	Flag	RF.10	RF.25	RF.50	RF.75	RF1.00	MEAN	%RSD
Ethyl methacrylate		0.394	0.326	0.335	0.387	0.434	0.375	11.9
Chlorobenzene-d5	I							
Tetrachloroethene		0.388	0.381	0.398	0.403	0.347	0.383	5.7
1,3-Dichloropropane		0.408	0.366	0.373	0.361	0.337	0.369	7.0
2-Hexanone	I	0.079	0.061	0.070	0.070	0.081	0.072	11.1
Dibromochloromethane		0.399	0.381	0.408	0.390	0.355	0.387	5.2
1,2-Dibromoethane		0.326	0.297	0.310	0.292	0.277	0.300	6.2
Chlorobenzene	P	0.930	0.929	0.979	0.960	0.978	0.955	2.6
1,1,1,2-Tetrachloroethane		0.393	0.394	0.423	0.429	0.436	0.415	4.9
Ethylbenzene	C	0.509	0.525	0.542	0.555	0.572	0.541	4.5
m-/p-Xylene		0.628	0.646	0.679	0.697	0.730	0.676	6.0
o-Xylene		0.601	0.605	0.641	0.653	0.701	0.640	6.4
Styrene		0.925	0.957	1.012	1.036	1.121	1.010	7.5
Bromoform	P	0.211	0.193	0.205	0.217	0.215	0.208	4.6
1,4-Dichlorobenzene-d4	I							
Cumene		3.195	2.902	3.063	3.038	2.980	3.036	3.6
1,1,2,2-Tetrachloroethane	P	0.518	0.357	0.362	0.368	0.390	0.399	17.0
Bromobenzene		0.853	0.789	0.832	0.838	0.831	0.828	2.9
1,2,3-Trichloropropane		0.369	0.133	0.247	0.241	0.255	0.249	33.7
n-Propylbenzene		0.929	0.879	0.938	0.966	0.994	0.941	4.6
trans-1,4-Dichloro-2-butene		0.363	0.249	0.247	0.241	0.255	0.271	19.0
2-Chlorotoluene		0.803	0.750	0.787	0.803	0.839	0.796	4.1
4-Chlorotoluene		0.784	0.737	0.755	0.759	0.781	0.763	2.5
1,3,5-Trimethylbenzene		2.403	2.315	2.356	2.339	2.414	2.365	1.8
tert-Butylbenzene		2.796	2.638	2.690	2.772	2.753	2.730	2.4
1,2,4-Trimethylbenzene		2.336	2.275	2.358	2.337	2.373	2.336	1.6
sec-Butylbenzene		3.659	3.447	3.569	3.661	3.663	3.600	2.6
p-Cymene		2.902	2.729	2.829	2.977	2.808	2.849	3.3
1,3-Dichlorobenzene		1.485	1.370	1.417	1.473	1.509	1.451	3.9
1,4-Dichlorobenzene		1.505	1.349	1.400	1.431	1.480	1.433	4.4
Benzyl chloride		0.504	0.409	0.452	0.494	0.521	0.476	9.5
n-Butylbenzene		2.839	2.762	2.859	2.978	2.994	2.886	3.4
1,2-Dichlorobenzene		1.223	1.061	1.091	1.149	1.170	1.139	5.6
1,2-Dibromo-3-chloropropane		0.076	0.037	0.040	0.048	0.049	0.050	31.4
1,2,4-Trichlorobenzene		1.195	0.588	0.615	0.767	0.791	0.791	30.7
Hexachlorobutadiene		1.011	0.760	0.911	1.099	1.062	0.969	14.1
Naphthalene		1.639	0.581	0.547	0.768	0.782	0.863	51.7
1,2,3-Trichlorobenzene		1.002	0.394	0.373	0.478	0.478	0.545	47.7
Average %RSD								10.6

\*- Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALH809	Date of Analysis :08/09/98	Analyte List: 8260
RF.10 HW551	RF.25 HW552	RF.50 HW553
RF.75 HW554	RF1.00 HW555	

VOST Calibration.

Surrogate	Flag	RF.10	RF.25	RF.50	RF.75	RF1.00	Mean	%RSD
Dibromofluoromethane	S	0.523	0.538	0.522	0.530	0.552	0.533	2.4
Toluene-d8	S	1.422	1.357	1.310	1.625	1.290	1.401	9.7
4-Bromofluorobenzene	S	0.702	0.656	0.636	0.788	0.974	0.751	18.3

Approved by: YB Date 8/24/98

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**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALF814	Date of Analysis :08/13/98	Analyte List: 8260
RF.1 FX853	RF.25 FX854	RF.50 FX855
RF.75 FX856	RF1.0 FX857	

VOST Calibration.

Analyte	Flag	RF.1	RF.25	RF.50	RF.75	RF1.0	MEAN	%RSD
Pentafluorobenzene	I							
Dichlorodifluoromethane		0.354	0.432	0.385	0.326	0.267	0.353	17.5
Chloromethane	P	0.418	0.391	0.321	0.313	0.270	0.343	17.6
Vinyl Chloride	C	0.306	0.339	0.342	0.329	0.310	0.325	5.0
Bromomethane		0.161	0.169	0.197	0.175	0.181	0.176	7.7
Chloroethane		0.267	0.254	0.231	0.232	0.215	0.240	8.7
Trichlorofluoromethane		0.921	0.862	0.777	0.737	0.690	0.797	11.7
1,1-Dichloroethene	C	0.362	0.331	0.305	0.301	0.296	0.319	8.7
Iodomethane		0.559	0.549	0.520	0.535	0.523	0.537	3.1
Carbon disulfide		0.971	0.888	0.861	0.833	0.788	0.868	7.9
Acetone		0.024	0.019	0.028	0.046	0.111	0.046	82.9
Allyl chloride		0.414	0.398	0.421	0.430	0.435	0.420	3.5
Methylene chloride		0.277	0.253	0.230	0.217	0.209	0.237	11.8
Acrylonitrile		0.012	0.012	0.011	0.012	0.012	0.012	3.1
trans-1,2-Dichloroethene		0.387	0.361	0.350	0.335	0.336	0.354	6.0
1,1-Dichloroethane	P	0.827	0.793	0.752	0.731	0.710	0.763	6.2
Vinyl acetate		0.106	0.099	0.104	0.109	0.120	0.108	7.0
2,2-Dichloropropane		0.237	0.280	0.327	0.359	0.387	0.318	19.0
cis-1,2-Dichloroethene		0.340	0.346	0.339	0.331	0.331	0.337	1.9
2-Butanone		0.026	0.020	0.035	0.051	0.120	0.050	80.5
Chloroform	C	0.755	0.701	0.661	0.619	0.597	0.667	9.5
Bromochloromethane		0.148	0.144	0.141	0.129	0.126	0.138	7.1
1,1,1-Trichloroethane		0.777	0.784	0.775	0.743	0.741	0.764	2.7
1,4-Difluorobenzene	I							
Carbon tetrachloride		0.802	0.737	0.718	0.740	0.697	0.739	5.3
1,1-Dichloropropene		0.600	0.562	0.550	0.558	0.533	0.561	4.4
Benzene		0.941	1.001	0.989	1.014	0.923	0.974	4.1
1,2-Dichloroethane		0.271	0.295	0.304	0.281	0.255	0.281	6.9
Trichloroethene		0.402	0.460	0.505	0.520	0.505	0.478	10.1
1,2-Dichloropropane	C	0.285	0.307	0.328	0.329	0.315	0.313	5.8
Dibromomethane		0.105	0.105	0.112	0.101	0.096	0.104	5.8
Methyl methacrylate		0.028	0.028	0.032	0.032	0.033	0.031	8.5
Bromodichloromethane		0.353	0.367	0.386	0.375	0.355	0.367	3.7
cis-1,3-Dichloropropene		0.193	0.236	0.264	0.288	0.293	0.255	16.2
4-Methyl-2-pentanone		0.029	0.034	0.039	0.046	0.054	0.041	23.6
Toluene	C	0.672	0.740	0.725	0.742	0.711	0.718	4.0
trans-1,3-Dichloropropene		0.094	0.119	0.139	0.157	0.159	0.134	20.5
1,1,2-Trichloroethane		0.118	0.117	0.138	0.115	0.111	0.120	8.6

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALF814	Date of Analysis :08/13/98	Analyte List: 8260
RF.1 FX853	RF.25 FX854	RF.50 FX855
RF.75 FX856	RF1.0 FX857	

VOST Calibration.

Analyte	Flag	RF.1	RF.25	RF.50	RF.75	RF1.0	MEAN	%RSD
Ethyl methacrylate		0.065	0.062	0.074	0.082	0.088	0.074	14.8
Chlorobenzene-d5	I							
Tetrachloroethene		0.401	0.455	0.462	0.533	0.515	0.473	11.1
1,3-Dichloropropane		0.221	0.240	0.251	0.246	0.238	0.239	4.8
2-Hexanone	I	0.009	0.010	0.020	0.040	0.103	0.037	107.5
Dibromochloromethane		0.222	0.228	0.238	0.248	0.240	0.235	4.4
1,2-Dibromoethane		0.143	0.143	0.148	0.147	0.144	0.145	1.6
Chlorobenzene	P	0.989	1.024	0.965	1.031	0.967	0.995	3.1
1,1,1,2-Tetrachloroethane		0.352	0.360	0.340	0.392	0.368	0.363	5.4
Ethylbenzene	C	0.538	0.619	0.611	0.661	0.636	0.613	7.5
m-/p-Xylene		0.700	0.776	0.741	0.817	0.725	0.752	6.1
o-Xylene		0.528	0.646	0.626	0.690	0.645	0.627	9.6
Styrene		0.690	0.840	0.814	0.874	0.847	0.813	8.9
Bromoform	P	0.082	0.074	0.086	0.087	0.083	0.082	6.4
1,4-Dichlorobenzene-d4	I							
Cumene		5.060	5.674	4.650	5.625	4.866	5.175	8.8
1,1,2,2-Tetrachloroethane	P	0.264	0.199	0.213	0.222	0.210	0.221	11.3
Bromobenzene		0.716	0.799	0.686	0.806	0.810	0.763	7.6
1,2,3-Trichloropropane		0.192	0.171	0.178	0.175	0.166	0.176	5.6
n-Propylbenzene		1.404	1.619	1.299	1.660	1.693	1.535	11.3
trans-1,4-Dichloro-2-butene		0.127	0.132	0.107	0.116	0.112	0.119	8.9
2-Chlorotoluene		1.064	1.181	0.884	1.135	1.140	1.081	10.9
4-Chlorotoluene		0.915	1.046	0.867	1.048	1.053	0.986	9.0
1,3,5-Trimethylbenzene		3.783	4.371	3.318	4.220	4.258	3.990	11.0
tert-Butylbenzene		3.908	5.199	3.798	4.955	5.436	4.659	16.2
1,2,4-Trimethylbenzene		3.367	3.736	3.006	3.756	3.798	3.533	9.7
sec-Butylbenzene		5.951	6.596	5.325	6.751	6.395	6.204	9.3
p-Cymene		4.811	5.375	4.431	5.686	5.714	5.203	10.8
1,3-Dichlorobenzene		1.602	1.707	1.427	1.712	1.695	1.629	7.4
1,4-Dichlorobenzene		1.584	1.553	1.360	1.557	1.519	1.514	5.9
Benzyl chloride		0.062	0.043	0.054	0.071	0.083	0.063	24.3
n-Butylbenzene		4.254	4.250	3.673	4.626	4.329	4.226	8.2
1,2-Dichlorobenzene		0.997	0.905	0.983	1.135	1.113	1.027	9.3
1,2-Dibromo-3-chloropropane		0.016	0.006	0.016	0.016	0.016	0.014	32.8
1,2,4-Trichlorobenzene		0.270	0.200	0.309	0.335	0.348	0.293	20.3
Hexachlorobutadiene		1.234	0.808	0.970	1.193	1.180	1.077	16.9
Naphthalene		0.161	0.101	0.191	0.204	0.249	0.181	30.2
1,2,3-Trichlorobenzene		0.157	0.107	0.186	0.203	0.212	0.173	24.5
Average %RSD								13.3

\*- Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALF814	Date of Analysis :08/13/98	Analyte List: 8260
RF.1 FX853	RF.25 FX854	RF.50 FX855
RF.75 FX856	RF1.0 FX857	

VOST Calibration.

Surrogate	Flag	RF.1	RF.25	RF.50	RF.75	RF1.0	Mean	%RSD
Dibromofluoromethane	S	0.458	0.441	0.417	0.403	0.388	0.421	6.7
Toluene-d8	S	0.891	1.036	1.050	1.112	1.011	1.020	8.0
4-Bromofluorobenzene	S	0.308	0.344	0.366	0.354	0.329	0.340	6.7

Approved by: \_\_\_\_\_ *YR* Date *8/24/98*

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**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX872                      Date of Analysis :08/17/98                      Analyte List: 8260

ICAL File: ICALF814

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Dichlorodifluoromethane		0.294	0.353	16.7
Chloromethane	P	0.247	0.343	28.0
Vinyl Chloride	C	0.284	0.325	12.6
Bromomethane		0.208	0.176	-18.2
Chloroethane		0.216	0.240	10.0
Trichlorofluoromethane		0.685	0.797	14.1
1,1-Dichloroethene	C	0.281	0.319	11.9
Iodomethane		0.457	0.537	14.9
Carbon disulfide		0.833	0.868	4.0
Acetone		0.019	0.046	58.7
Allyl chloride		0.283	0.420	32.6
Methylene chloride		0.246	0.237	-3.8
Acrylonitrile		0.009	0.012	25.0
trans-1,2-Dichloroethene		0.335	0.354	5.4
1,1-Dichloroethane	P	0.704	0.763	7.7
Vinyl acetate		0.082	0.108	24.1
2,2-Dichloropropane		0.289	0.318	9.1
cis-1,2-Dichloroethene		0.330	0.337	2.1
2-Butanone		0.017	0.050	66.0
Chloroform	C	0.650	0.667	2.5
Bromochloromethane		0.131	0.138	5.1
1,1,1-Trichloroethane		0.686	0.764	10.2
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.691	0.739	6.5
1,1-Dichloropropene		0.598	0.561	-6.6
Benzene		1.113	0.974	-14.3
1,2-Dichloroethane		0.276	0.281	1.8
Trichloroethene		0.447	0.478	6.5
1,2-Dichloropropane	C	0.341	0.313	-8.9
Dibromomethane		0.115	0.104	-10.6
Methyl methacrylate		0.026	0.031	16.1
Bromodichloromethane		0.415	0.367	-13.1
cis-1,3-Dichloropropene		0.294	0.255	-15.3
4-Methyl-2-pentanone		0.047	0.041	-14.6
Toluene	C	0.839	0.718	-16.9
trans-1,3-Dichloropropene		0.159	0.134	-18.7
1,1,2-Trichloroethane		0.144	0.120	-20.0

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX872                      Date of Analysis :08/17/98                      Analyte List: 8260  
 ICAL File: ICALF814

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Ethyl methacrylate		0.100	0.074	-35.1
Chlorobenzene-d5	I			
Tetrachloroethene		0.482	0.473	-1.9
1,3-Dichloropropane		0.281	0.239	-17.6
2-Hexanone	1	0.013	0.037	64.9
Dibromochloromethane		0.250	0.235	-6.4
1,2-Dibromoethane		0.157	0.145	-8.3
Chlorobenzene	P	1.006	0.995	-1.1
1,1,1,2-Tetrachloroethane		0.390	0.363	-7.4
Ethylbenzene	C	0.626	0.613	-2.1
m-/p-Xylene		0.812	0.752	-8.0
o-Xylene		0.666	0.627	-6.2
Styrene		0.931	0.813	-14.5
Bromoform	P	0.104	0.082	-26.8
1,4-Dichlorobenzene-d4	I			
Cumene		4.886	5.175	5.6
1,1,2,2-Tetrachloroethane	P	0.269	0.221	-21.7
Bromobenzene		0.803	0.763	-5.2
1,2,3-Trichloropropane		0.203	0.176	-15.3
n-Propylbenzene		1.359	1.535	11.5
trans-1,4-Dichloro-2-butene		0.098	0.119	17.6
2-Chlorotoluene		1.044	1.081	3.4
4-Chlorotoluene		0.901	0.986	8.6
1,3,5-Trimethylbenzene		3.746	3.990	6.1
tert-Butylbenzene		3.981	4.659	14.6
1,2,4-Trimethylbenzene		3.390	3.533	4.0
sec-Butylbenzene		5.714	6.204	7.9
p-Cymene		4.523	5.203	13.1
1,3-Dichlorobenzene		1.639	1.629	-0.6
1,4-Dichlorobenzene		1.545	1.514	-2.0
Benzyl chloride		0.082	0.063	-30.2
n-Butylbenzene		3.954	4.226	6.4
1,2-Dichlorobenzene		1.070	1.027	-4.2
1,2-Dibromo-3-chloropropane		0.012	0.014	14.3
1,2,4-Trichlorobenzene		0.303	0.293	-3.4
Hexachlorobutadiene		0.876	1.077	18.7
Naphthalene		0.124	0.181	31.5
1,2,3-Trichlorobenzene		0.174	0.173	-0.6

\* - Fails QC Criteria for %D; << - Rf less than minimum QC RF; >> - RF greater than maximum QC RF

Triangle Laboratories, Inc.  
Continuing Calibration Curve

CCAL File: FX872

Date of Analysis :08/17/98

Analyte List: 8260

ICAL File: ICALF814

VOST Calibration.

Surrogate	Flag	RF0.25	RFMEAN	%D
Dibromofluoromethane	S	0.391	0.421	7.1
Toluene-d8	S	1.115	1.020	-9.3
4-Bromofluorobenzene	S	0.399	0.340	-17.4

Approved by: \_\_\_\_\_ Date 8/24/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX889	Date of Analysis :08/18/98	Analyte List: 8260
ICAL File: ICALF814		

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Dichlorodifluoromethane		0.438	0.353	-24.1
Chloromethane	P	0.228	0.343	33.5
Vinyl Chloride	C	0.296	0.325	8.9
Bromomethane		0.207	0.176	-17.6
Chloroethane		0.197	0.240	17.9
Trichlorofluoromethane		0.668	0.797	16.2
1,1-Dichloroethene	C	0.312	0.319	2.2
Iodomethane		0.425	0.537	20.9
Carbon disulfide		0.896	0.868	-3.2
Acetone		0.015	0.046	67.4
Allyl chloride		0.227	0.420	46.0
Methylene chloride		0.242	0.237	-2.1
Acrylonitrile		0.006	0.012	50.0
trans-1,2-Dichloroethene		0.349	0.354	1.4
1,1-Dichloroethane	P	0.623	0.763	18.3
Vinyl acetate		0.050	0.108	53.7
2,2-Dichloropropane		0.379	0.318	-19.2
cis-1,2-Dichloroethene		0.318	0.337	5.6
2-Butanone		0.014	0.050	72.0
Chloroform	C	0.675	0.667	-1.2
Bromochloromethane		0.101	0.138	26.8
1,1,1-Trichloroethane		0.708	0.764	7.3
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.699	0.739	5.4
1,1-Dichloropropene		0.699	0.561	-24.6
Benzene		1.286	0.974	-32.0
1,2-Dichloroethane		0.264	0.281	6.0
Trichloroethene		0.463	0.478	3.1
1,2-Dichloropropane	C	0.301	0.313	3.8
Dibromomethane		0.113	0.104	-8.7
Methyl methacrylate		0.020	0.031	35.5
Bromodichloromethane		0.431	0.367	-17.4
cis-1,3-Dichloropropene		0.314	0.255	-23.1
4-Methyl-2-pentanone		0.031	0.041	24.4
Toluene	C	0.853	0.718	-18.8
trans-1,3-Dichloropropene		0.168	0.134	-25.4
1,1,2-Trichloroethane		0.139	0.120	-15.8

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX889      Date of Analysis :08/18/98      Analyte List: 8260

ICAL File: ICALF814

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Ethyl methacrylate		0.078	0.074	-5.4
Chlorobenzene-d5	I			
Tetrachloroethene		0.606	0.473	-28.1
1,3-Dichloropropane		0.312	0.239	-30.5
2-Hexanone	1	0.010	0.037	73.0
Dibromochloromethane		0.224	0.235	4.7
1,2-Dibromoethane		0.154	0.145	-6.2
Chlorobenzene	P	1.058	0.995	-6.3
1,1,1,2-Tetrachloroethane		0.355	0.363	2.2
Ethylbenzene	C	0.711	0.613	-16.0
m-/p-Xylene		0.914	0.752	-21.5
o-Xylene		0.740	0.627	-18.0
Styrene		0.968	0.813	-19.1
Bromoform	P	0.104	0.082	-26.8
1,4-Dichlorobenzene-d4	I			
Cumene		6.007	5.175	-16.1
1,1,2,2-Tetrachloroethane	P	0.266	0.221	-20.4
Bromobenzene		0.846	0.763	-10.9
1,2,3-Trichloropropane		0.219	0.176	-24.4
n-Propylbenzene		1.505	1.535	2.0
trans-1,4-Dichloro-2-butene		0.121	0.119	-1.7
2-Chlorotoluene		1.059	1.081	2.0
4-Chlorotoluene		0.925	0.986	6.2
1,3,5-Trimethylbenzene		4.471	3.990	-12.1
tert-Butylbenzene		4.863	4.659	-4.4
1,2,4-Trimethylbenzene		3.903	3.533	-10.5
sec-Butylbenzene		6.900	6.204	-11.2
p-Cymene		5.056	5.203	2.8
1,3-Dichlorobenzene		1.652	1.629	-1.4
1,4-Dichlorobenzene		1.517	1.514	-0.2
Benzyl chloride		0.063	0.063	0.0
n-Butylbenzene		5.115	4.226	-21.0
1,2-Dichlorobenzene		1.051	1.027	-2.3
1,2-Dibromo-3-chloropropane		0.019	0.014	-35.7
1,2,4-Trichlorobenzene		0.367	0.293	-25.3
Hexachlorobutadiene		1.188	1.077	-10.3
Naphthalene		0.158	0.181	12.7
1,2,3-Trichlorobenzene		0.218	0.173	-26.0

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF



**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: HW703	Date of Analysis :08/19/98	Analyte List: 8260
ICAL File: ICALH809		
VOST Calibration.		

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Dichlorodifluoromethane		0.758	0.655	-15.7
Chloromethane	P	0.399	0.377	-5.8
Vinyl Chloride	C	0.515	0.468	-10.0
Bromomethane		0.453	0.429	-5.6
Chloroethane		0.304	0.254	-19.7
Trichlorofluoromethane		1.124	1.061	-5.9
1,1-Dichloroethene	C	0.524	0.464	-12.9
Iodomethane		1.009	0.981	-2.9
Carbon disulfide		1.285	1.053	-22.0
Acetone		0.046	0.050	8.0
Allyl chloride		0.354	0.379	6.6
Methylene chloride		0.453	0.354	-28.0
Acrylonitrile		0.028	0.037	24.3
trans-1,2-Dichloroethene		0.508	0.445	-14.2
1,1-Dichloroethane	P	0.770	0.733	-5.0
Vinyl acetate		0.216	0.398	45.7
2,2-Dichloropropane		0.580	0.667	13.0
cis-1,2-Dichloroethene		0.438	0.451	2.9
2-Butanone		0.030	0.063	52.4
Chloroform	C	0.798	0.771	-3.5
Bromochloromethane		0.226	0.234	3.4
1,1,1-Trichloroethane		0.735	0.723	-1.7
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.524	0.601	12.8
1,1-Dichloropropene		0.468	0.589	20.5
Benzene		0.949	1.173	19.1
1,2-Dichloroethane		0.265	0.339	21.8
Trichloroethene		0.451	0.443	-1.8
1,2-Dichloropropane	C	0.385	0.425	9.4
Dibromomethane		0.230	0.274	16.1
Methyl methacrylate		0.059	0.107	44.9
Bromodichloromethane		0.617	0.653	5.5
cis-1,3-Dichloropropene		0.535	0.618	13.4
4-Methyl-2-pentanone		0.101	0.172	41.3
Toluene	C	0.943	1.016	7.2
trans-1,3-Dichloropropene		0.376	0.507	25.8
1,1,2-Trichloroethane		0.289	0.347	16.7

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: HW703	Date of Analysis :08/19/98	Analyte List: 8260
ICAL File: ICALH809		

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Ethyl methacrylate		0.195	0.375	48.0
Chlorobenzene-d5	I			
Tetrachloroethene		0.397	0.383	-3.7
1,3-Dichloropropane		0.314	0.369	14.9
2-Hexanone	I	0.031	0.072	56.9
Dibromochloromethane		0.353	0.387	8.8
1,2-Dibromoethane		0.250	0.300	16.7
Chlorobenzene	P	0.966	0.955	-1.2
1,1,1,2-Tetrachloroethane		0.409	0.415	1.4
Ethylbenzene	C	0.517	0.541	4.4
m-/p-Xylene		0.650	0.676	3.8
o-Xylene		0.628	0.640	1.9
Styrene		0.999	1.010	1.1
Bromoform	P	0.165	0.208	20.7
1,4-Dichlorobenzene-d4	I			
Cumene		3.129	3.036	-3.1
1,1,2,2-Tetrachloroethane	P	0.326	0.399	18.3
Bromobenzene		0.794	0.828	4.1
1,2,3-Trichloropropane		0.222	0.249	10.8
n-Propylbenzene		0.962	0.941	-2.2
trans-1,4-Dichloro-2-butene		0.222	0.271	18.1
2-Chlorotoluene		0.840	0.796	-5.5
4-Chlorotoluene		0.817	0.763	-7.1
1,3,5-Trimethylbenzene		2.649	2.365	-12.0
tert-Butylbenzene		2.895	2.730	-6.0
1,2,4-Trimethylbenzene		2.531	2.336	-8.3
sec-Butylbenzene		3.731	3.600	-3.6
p-Cymene		3.096	2.849	-8.7
1,3-Dichlorobenzene		1.518	1.451	-4.6
1,4-Dichlorobenzene		1.506	1.433	-5.1
Benzyl chloride		0.371	0.476	22.1
n-Butylbenzene		3.152	2.886	-9.2
1,2-Dichlorobenzene		1.146	1.139	-0.6
1,2-Dibromo-3-chloropropane		0.029	0.050	42.0
1,2,4-Trichlorobenzene		0.813	0.791	-2.8
Hexachlorobutadiene		1.211	0.969	-25.0
Naphthalene		0.484	0.863	43.9
1,2,3-Trichlorobenzene		0.474	0.545	13.0

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

Triangle Laboratories, Inc.  
Continuing Calibration Curve

CCAL File: HW703      Date of Analysis :08/19/98      Analyte List: 8260

ICAL File: ICALH809

VOST Calibration.

Surrogate	Flag	RF0.25	RFMEAN	%D
Dibromofluoromethane	S	0.544	0.533	-2.1
Toluene-d8	S	1.343	1.401	4.1
4-Bromofluorobenzene	S	0.697	0.751	7.2

Approved by: YR Date 8/24/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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Triangle Laboratories, Inc.  
Initial Calibration Curve

ICAL File: ICALF818  
RF.5 FX891

Date of Analysis :08/18/98

Analyte List: 8260

VOST Calibration.

Analyte	Flag	RF.5	MEAN	%RSD
Pentafluorobenzene	I			
1,3-Butadiene		0.353	0.353	0.0
Vinyl bromide		0.610	0.610	0.0
MTBE		0.543	0.543	0.0
n-Hexane		1.159	1.159	0.0
1,2-Epoxybutane		0.013	0.013	0.0
Iso-Octane		4.217	4.217	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.052	0.052	0.0
Chlorobenzene-d5	I			
1,4-Dichlorobenzene-d4	I			
Average %RSD				0.0

Approved by: YR Date 8/24/98

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

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Triangle Laboratories, Inc.  
Continuing Calibration Curve

CCAL File: FX876      Date of Analysis :08/17/98      Analyte List: 8260

ICAL File: ICALF817

VOST Calibration.

Analyte	Flag	RF0.50	RFMEAN	%D
Pentafluorobenzene	I			
1,3-Butadiene		0.385	0.385	0.0
Vinyl bromide		0.565	0.565	0.0
MTBE		0.599	0.599	0.0
n-Hexane		1.358	1.358	0.0
1,2-Epoxybutane		0.018	0.018	0.0
Iso-Octane		4.663	4.663	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.072	0.072	0.0
Chlorobenzene-d5	I			
1,4-Dichlorobenzene-d4	I			

Approved by: YR Date 8/24/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX891      Date of Analysis :08/18/98      Analyte List: 8260  
 ICAL File: ICALF818

VOST Calibration.

Analyte	Flag	RF0.50	RFMEAN	%D
Pentafluorobenzene	I			
1,3-Butadiene		0.353	0.353	0.0
Vinyl bromide		0.610	0.610	0.0
MTBE		0.543	0.543	0.0
n-Hexane		1.159	1.159	0.0
1,2-Epoxybutane		0.013	0.013	0.0
Iso-Octane		4.217	4.217	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.052	0.052	0.0
Chlorobenzene-d5	I			
1,4-Dichlorobenzene-d4	I			

Approved by: YR Date 8/24/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF









# **TRIANGLE LABS**

## **CASE NARRATIVE**

**Analysis of Samples for the Presence of  
Volatile Analytes by  
High-Resolution Gas Chromatography / Low-Resolution Mass Spectrometry**

### **METHOD 8260 (7/92)**

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**Date :** August 26, 1998  
**Client ID :** Pacific Environmental Services  
**TLI Project Number :** 46323

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**Objective:** Analysis of twelve VOST tube pairs for a client-specified list of volatile compounds, using Method 8260.

**Method:**

Twenty three VOST tube pairs were received at Triangle Laboratories, Inc. on July 29, 1998 at 6°C. Analytical results reported in this data package pertain to the analysis of the "Tunnel" (T) samples. The VOST tube pairs were analyzed according to the guidelines of Methods 8260 and 5040. The internal standards and surrogate standards were added in the amount of 0.25 micrograms (ug) immediately prior to analysis by GC/MS. The internal standards are pentafluorobenzene, 1,4-difluorobenzene, chlorobenzene-d<sub>5</sub>, and 1,4-dichlorobenzene-d<sub>4</sub>, and the surrogate standards reported are dibromofluoromethane, toluene-d<sub>8</sub>, and 4-bromofluorobenzene. The results reported relate only to the items tested.

The GC/MS analysis conditions are listed below:

Purge and trap:	Tekmar LSC-2000
Purge:	11 min.
Desorb Temperature:	250 C
Desorb Time:	4 min.

**GC Conditions:**

Column:	30 m x .53 mm x 0.3 $\mu$ J&W DB624
	0 C hold .5 min, 10 C/min to 45C, 6 C/min to 90C, hold 1.5 min, 50 C/min to 200C.

**MS Conditions:**

Instrument:	VG-TRIO-1 Lab Base data system
Scan:	35-350 amu at .6s/scan
Interface:	Jet Separator, 200 C

**Report:**

Enclosed with the case narrative are copies of the sample identification index, the project summary sheets, client paperwork, sample log-in sheets, and log book pages. A sample identification index summarizes the client sample name, TLI sample number, and analytical file name for each sample and blank. The project summary lists the amounts for detected analytes in gray. The estimated detection limits will be listed in parentheses when the target analytes are not detected.

The data are reported as quantitation reports, chromatograms, interim reports, and spectra of detected target analytes. The quantitation report header lists the TLI project number, analysis method, instrument sample file name, client sample name, client project number, TLI sample number, calibration file, date received, and analysis date. The response factors used for all calculations are from the calibration file listed in the header. All initial and continuing calibration

data are located in the back of the data package. The amount is reported in total ug for the VOST tubes. The retention time (RT) will be listed for all internal standards and analytes which are detected. If a target analyte is not detected, it will be flagged with a "U" and a detection limit will be listed. Estimated detection limits are calculated for all analytes which were not found in the samples by using an area of 2000. The estimated detection limits reported are the average detection limits achievable over time on an instrument type. The actual detection limit for a given compound on a given day may vary from the estimate reported. The quantitation limit for all analytes is half of the low point of the initial calibration. Below this point the calibration cannot be considered to be linear. Any amount reported at a level below the quantitation limit will be flagged with a "J" and should be considered estimated. If any compounds are found at a level above the upper calibration range, the analyte will be flagged with an "E" and the amounts reported should be considered estimated. If any target analytes found in the laboratory blanks are detected in the associated samples, they will be flagged with a "B" on each sample topsheet. All analytes are quantitated against the internal standard preceding them on the target analyte list. Surrogate standards are quantitated against the internal standard with the matching internal standard reference number. For example, toluene-d<sub>8</sub> has 2 in the IS Ref column and would be quantitated against the internal standard which has IS2 listed in the flag column. If an internal standard area is above or below the quality control limits as defined by the continuing calibration, it will be flagged with "High" or "Low" in the flag column.

### Results:

Two of the VOST tube pairs were analyzed within the fourteen-day sampling to analysis holding time. The remainder of the samples were analyzed thirteen to sixteen days past the last day of the holding time.

As per client request, VOST tube pairs T-V-4-1-A and -B and T-V-4-2-A and -B were analyzed separately. All other VOST tube pairs were analyzed in tandem, with the exception of sample T-V-4-4-A, which was run separately because the tenax/charcoal portion was lost.

The following observations were made by the analyst. No data is available for sample T-V-4-3-A,B due to an acquisition failure. The tenax/charcoal tube, sample T-V-4-4-B, was found to be broken. The contents had leaked into the outer container and could not be salvaged.

Each sample was processed twice, once against the calibrations containing compounds that are normally found in our Method 8260 standard solutions, and once against special single point calibrations containing seven compounds. Therefore, each sample reported contains two sets of topsheets and interim reports, as well as a chromatogram and spectra for all analytes. Please note that the surrogate standards have been reported only on the first target analyte list. Results for the seven analytes processed against single point calibrations should be considered estimates.

See Page # 13  
Methylene chloride was found at an amount above the upper calibration limit of one microgram in sample T-V-4-2-B. This compound is flagged with "E" and the amount reported should be considered estimated. The field samples also contained very high levels of hydrocarbons.

All internal standard areas were within quality control limits for all samples and blanks, with the exception of a low area for 1,4-dichlorobenzene-d<sub>4</sub> in one laboratory blank.

Surrogate standard percent recoveries were within quality control limits, with the exception of one high recovery for 4-bromofluorobenzene in sample T-V-4-1-A.

The laboratory blanks contained several analytes at amounts below the quantitation limit. The target analytes in a laboratory blank should not be considered as truly present in the native samples unless found at a level at least five times the amount found in the associated blank. In the event that the amount of a target analyte found in the samples is twenty times the amount found in the associated blank, the contribution from the blank can be considered negligible.

**Sample Calculations:**

$$\text{Response Factor (RF)} = \frac{(\text{area analyte}) \times (\text{amt IS})}{(\text{area IS}) \times (\text{amt analyte})}$$

$$\text{Amount (ug)} = \frac{(\text{area analyte in sample}) \times (\text{amt IS})}{(\text{area IS}) \times (\text{avg ical RF})}$$

Where:

amt IS = amount of internal standard = 0.25 ug  
ical = initial calibration

The data in this package has been judged to be valid according to the guidelines of Methods 8260 and 5040 except as noted above. Should you have any questions, please feel free to contact our Project Scientist, Deb Smith, at (919) 544-5729, ext. 267.

For Triangle Laboratories, Inc.,

Report Preparation:

Penny A. Brock

Penny A. Brock  
Report Preparation Chemist

Quality Control:

Sarah A. Hubbard

Sarah A. Hubbard  
Report Preparation Chemist

The total number of pages in this data package is 357.

**TRIANGLE LABORATORIES, INC.**

**LIST OF CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

**American Association for Laboratory Accreditation.** Accreditation pending. Certificate Number 0226-01. Accreditation for technical competence in Environmental Testing. (Including Waste Water, Sol/Haz Waste, Pulp/Paper, and Air Matrices) Parameters are AOX/TOX, and Dioxin/Furan. Method 1613 for Drinking Water **Currently re-applying.**

**State of Alabama, Department of Environmental Management.** Expires December 31, 1998. Laboratory I.D. # 40950. Dioxin in drinking water.

**State of Alaska, Department of Environmental Conservation.** Expires December 21, 1998. Certificate number OS-006-98. Dioxin in drinking water.

**State of Arizona, Department of Health Services.** Expires May 26, 1998. Certificate #AZ0423. Drinking Water for Dioxin, Dioxin in WW and S/H Waste. **Currently applying for renewal.**

**State of Arkansas, Department of Pollution Control and Ecology.** Expires February 19, 1999. Pulp/paper, soil, water, and Hazardous Waste for Dioxin/Furan; AOX/TOX, Volatiles, Semi-volatiles, and Metals.

**State of California, Department of Health Services.** Expires August 31, 1999. Certificate #1922. Selected Metals in Waste Water; Volatiles, Semi-volatiles, and Dioxin/furan in WW and Sol/Haz Waste. Dioxin in drinking water.

**State of Connecticut, Department of Health Services.** Expires September 30, 1999. Registration # PH-0117. Dioxin in drinking water.

**Delaware Health and Social Services.** Expires December 31, 1998. Certificate #NC 140. Dioxin in drinking water.

**Florida Department of Health and Rehabilitative Services.** Expires June 30, 1998. Dioxin in SDW. Drinking Water ID HRS# 87424. Pending new certificate.

**Hawaii Department of Health.** Expires March 1, 1999. Dioxin in drinking water. "Accepted" status for regulatory purposes.

**Idaho Department of Health and Welfare.** Expires December 31, 1998. Dioxin in drinking water.

**State of Kansas, Department of Health and Environment.** Expires January 31, 1999. Method 1613 for drinking water. ID #'s - Drinking water and/or pollution control - E-10215. Solid or Hazardous Waste - E-101209.

**Commonwealth of Kentucky, Department for Environmental Protection.** Expires December 31, 1998. ID#90060. Dioxin in drinking water.

**Maryland Department of Health and Mental Hygiene.** Expires September 30, 1998. Certification #235 Drinking water by Method 1613A. Currently applying for renewal.

**State of Michigan, Department of Public Health.** Expires June 30, 1999. Drinking water by Method 1613. Current certification is extended, based on New York certificate renewal.

**Mississippi State Department of Health.** No expiration date. Dioxin in drinking water.

**Montana Department of Health and Environmental Services.** Expires December 31, 1998. Dioxin in drinking water.

**State of New Jersey, Department of Environmental Protection and Energy.** Expires June 30, 1998. Extended until July 31, 1998 per letter dated May 29, 1998. ID #67851. BNAs and Volatiles. Dioxin in drinking water. Currently applying for renewal.

**State of New Mexico, Environment Department.** Still certified, awaiting information from A2LA Dioxin in drinking water.

**New York State Department of Health.** Received updated certificates. ID #11026. Environmental Analyses of potable water, non-potable Water, Solid and Hazardous Waste. Method 1613 in DW.

**State of North Carolina, Department of Environment Health and Natural Resources** Expires. August 31, 1998. Certificate # 37751. Dioxin in drinking water.

**State of North Carolina, Department of Environment, Health, and Natural Resources, Division of Environmental Management.** Expires December 31, 2000. Certificate # 485. Metals, pesticides & PCBs, semi-volatiles and volatiles; TCLP.

**North Dakota State Department of Health and Consolidated Laboratories.** Expires December 31, 1998. Certificate # R-076. Effective October 4, 1993. Dioxin in drinking water.

**Oklahoma Department of Environmental Quality.** Expires August 31, 1998. Laboratory #9612. Dioxin by 1613A, 8290 and 8280. Submitted renewal application 7/1.

**State of South Carolina, Department of Health and Environmental Control.** Expires June 30, 1998. Extended August 31, 1999. Certificate number #99040001 (drinking water). Expires August 31, 1999. Certificate number #99040002 (other parameters). Dioxin/Furans, BNA, Volatiles, and PCBs/pesticides under Clean Water Act, 2,3,7,8-TCDD for Drinking Water, and Organic extractables for Solid and Hazardous Waste.

**State of Tennessee. Department of Environment and Conservation.** Expires February 5, 1999. ID #02992. Method 1613 Drinking water only.

**U.S. Department of Agriculture Soil Permit.** Expires September 30, 2001. Permit No. S-3790. Under the authority of the Federal Plant Pest Act, permission is granted to receive foreign soil samples for use in laboratory analysis.

**U.S. Army Corps of Engineers.** Expires October 19, 1999. Validated to perform analyses for the Fort Belvoir, VA (Contract Number DACA31-97-D-0029), Vint Hill Farms Station, Vint Hill, VA (Contract Number DACA31-95-D-0083), and Selma Pressure Treating Superfund Site, Selma, CA (Contract number DACW45-94-D-0054).

**U.S. EPA Region V.** Expires November 14, 1999. Dioxin in drinking water.

**U.S. EPA Region VIII, for the State of Wyoming.** Expires November 12, 1998. Dioxin in drinking water.

**State of Utah, Department of Health.** Expires May 30, 2000. Certificate Number E-166. Certification for the following parameters: Semi-Volatiles and Volatiles under RCRA; Volatiles under Clean Water Act; Dioxin/furans by Method 8280; Drinking water for Dioxin by Method 1613; Metals including Mercury and Microwave Digestion.

**Commonwealth of Virginia, Department of General Services, Division of Consolidated Laboratory Services.** Expires June 30, 1999. ID # 00341. Dioxin in drinking water.

**State of Washington, Department of Ecology.** Expires September 11, 1998. Lab Accreditation Number C067. Scope of Accreditation applies to water analyses for

Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans, BNA Extr (Semivolatile) Organics and Purgeable (Volatile) Organics.

**State of Washington, Department of Health.** Expires April 30, 1999. Dioxin in drinking water. Lab I.D. 129.

**State of West Virginia, Department of Health.** Expires December 31, 1998. Certificate No. 9923(C). Dioxin in drinking water.

**State of Wisconsin, Department of Natural Resources.** Expires August 31, 1998. Laboratory ID Number 999869530. Certification for the following categories of Organics: Purgeable, Base/Neutral, Acid, PCBs, and Dioxin. Expires November 14, 1999. Laboratory ID 999869530. Dioxin in drinking water.

### **PHARMACEUTICAL**

**Drug Enforcement Agency (DEA).** Expires November 30, 1998. Registration number RT01195835. Controlled substance registration for schedules 1,2,3,3N,4,5.

**N.C. Department of Human Resources.** Expires October 31, 1998. Registration number NC-PT 0000 0031. North Carolina controlled substances registration. Application submitted for renewal.

**Food & Drug Administration (FDA) Registration.** Expires June 1998. ID #'s 001500 1053481. Annual registration of drug establishment.

### **OTHER**

**Clinical Laboratory Improvement Amendments (CLIA) Registration.** Expires May 30, 1999. ID # 34D0705123. Department of Health & Human Services, Health Care Financing Administration.

**U.S. EPA Large Quantity Hazardous Waste Generator.** No expiration date. EPA ID #NCD982156879. Permit indicates that the laboratory is a large generator of hazardous waste.

**North Carolina General License for Radiation Protection.** No expiration date. No License. 032-875-OG. The general license applies only to radioactive material contained in devices which have been manufactured and labeled in accordance with specific requirements.

**TRIANGLE LABS**

DOCUMENT  
CONTROL

Triangle Laboratories, Inc.  
801 Capitola Drive  
Durham, NC 27713-4411  
919-544-5729

P.O. Box 13485  
Research Triangle Park, NC 27709-3485  
Fax # 919-544-5491

**Triangle Laboratories, Inc.**  
**Sample Identification Index for Project: 46323**

Client Id:	TLI Id:	File Name:
T-V-2-1-A,B T/TC	214-27-5A,B	FX975
T-V-2-2-A,B T/TC	214-27-6A,B	FX976
T-V-2-3-A,B T/TC	214-27-7A,B	FX977
T-V-2-4-A,B T/TC	214-27-8A,B	FX978
T-V-3-1-A,B T/TC	214-27-16A,B	FX979
T-V-3-2-A,B T/TC	214-27-17A,B	FX980
T-V-3-3-A,B T/TC	214-27-18A,B	FX981
T-V-4-1-A T	214-27-20A	HW562
T-V-4-1-B TC	214-27-20B	HW560
T-V-4-2-A T	214-27-21A	HW563
T-V-4-2-B TC	214-27-21B	HW561
T-V-4-4-A T	214-27-23A	FX983
T-V-FB-A,B T/TC	214-27-9A,B	FX953
VOSTBLK 080998 T/TC	VOSTBLK 0809 <del>98</del>	HW559
VOSTBLK 082198 T/TC	VOSTBLK 0821 <del>98</del>	FX952
VOSTBLK 082498 T/TC	VOSTBLK 0824 <del>98</del>	FX974

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-2-1-A, B T/TC	T-V-2-2-A, B T/TC	T-V-2-3-A, B T/TC	T-V-2-4-A, B T/TC	T-V-3-1-A, B T/TC
Filename :	FX975	FX976	FX977	FX978	FX979
TLI Id :	214-27-5A,B	214-27-6A,B	214-27-7A,B	214-27-8A,B	214-27-16A,B
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Chloromethane	0.056	0.092	0.042	0.040	0.030
Vinyl Chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromomethane	0.036	0.035	0.035	(0.001)	0.005
Chloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichlorofluoromethane	0.014	0.011	(0.001)	0.009	0.011
1,1-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methylene chloride	0.488	(0.001)	0.081	0.064	0.508
trans-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chloroform	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,1-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Iodomethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Carbon disulfide	0.104	0.093	0.026	0.044	0.015
Acetone	0.193	0.232	0.137	0.296	0.183
Allyl chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acrylonitrile	(0.026)	(0.024)	(0.021)	(0.021)	(0.020)
Vinyl acetate	(0.002)	(0.002)	(0.001)	(0.001)	(0.001)
2-Butanone	(0.005)	0.312	0.161	0.342	0.166
Carbon tetrachloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Benzene	0.263	0.238	0.156	0.108	0.096
1,2-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dichloropropane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromodichloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Toluene	0.132	0.247	0.218	0.144	0.212
trans-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methyl methacrylate	(0.008)	(0.007)	(0.006)	(0.006)	(0.006)
4-Methyl-2-pentanone	(0.006)	(0.005)	(0.005)	(0.005)	(0.004)
Tetrachloroethene	0.017	0.035	0.035	0.031	0.023
Dibromochloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dibromoethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chlorobenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

( )-Estimated Detection Limit Page 1

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-2-1-A, B T/TC	T-V-2-2-A, B T/TC	T-V-2-3-A, B T/TC	T-V-2-4-A, B T/TC	T-V-3-1-A, B T/TC
Filename :	FX975	FX976	FX977	FX978	FX979
TLI Id :	214-27-5A,B	214-27-6A,B	214-27-7A,B	214-27-8A,B	214-27-16A,B
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug

Ethylbenzene	0.015	0.069	0.050	0.027	0.075
m-/p-Xylene	0.078	0.428	0.255	0.149	0.335
o-Xylene	0.012	0.119	0.088	0.042	0.131
Styrene	(0.001)	0.052	0.038	0.017	0.029
Bromoform	(0.002)	(0.002)	(0.002)	(0.002)	(0.002)
2-Hexanone	(0.011)	(0.010)	(0.008)	(0.008)	(0.008)
Cumene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2,2-Tetrachloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-2-1-A, B T/TC	T-V-2-2-A, B T/TC	T-V-2-3-A, B T/TC	T-V-2-4-A, B T/TC	T-V-3-1-A, B T/TC
Filename :	FX975	FX976	FX977	FX978	FX979
TLI Id :	214-27-5A,B	214-27-6A,B	214-27-7A,B	214-27-8A,B	214-27-16A,B
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
1,3-Butadiene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Vinyl bromide	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
MTBE	<b>0.033</b>	<b>0.022</b>	<b>0.039</b>	<b>0.036</b>	<b>0.028</b>
n-Hexane	<b>0.266</b>	<b>0.176</b>	<b>0.145</b>	<b>0.083</b>	<b>0.107</b>
1,2-Epoxybutane	(0.032)	(0.029)	(0.025)	(0.025)	(0.024)
Iso-Octane	<b>0.029</b>	<b>0.016</b>	<b>0.019</b>	<b>0.021</b>	<b>0.012</b>
Ethyl acrylate	(0.008)	(0.008)	(0.007)	(0.007)	(0.007)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-3-2-A, B T/TC	T-V-3-3-A, B T/TC	T-V-4-1-A T	T-V-4-1-B TC	T-V-4-2-A T
Filename :	FX980	FX981	HW562	HW560	HW563
TLI Id :	214-27-17A,B	214-27-18A,B	214-27-20A	214-27-20B	214-27-21A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Chloromethane	(0.001)	0.043	0.010	0.020	0.005
Vinyl Chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromomethane	(0.001)	(0.001)	0.010	0.003	0.006
Chloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichlorofluoromethane	0.011	0.006	0.009	0.015	(0.001)
1,1-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methylene chloride	0.828	0.049	0.038	0.327	0.674
trans-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chloroform	(0.001)	(0.001)	0.006	(0.001)	(0.001)
1,1,1-Trichloroethane	(0.001)	(0.001)	0.012	(0.001)	(0.001)
Iodomethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Carbon disulfide	0.017	0.020	(0.001)	(0.001)	(0.001)
Acetone	(0.004)	(0.004)	0.151	0.087	0.036
Allyl chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acrylonitrile	(0.020)	(0.019)	(0.007)	(0.006)	(0.006)
Vinyl acetate	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
2-Butanone	(0.004)	(0.004)	0.051	(0.004)	(0.003)
Carbon tetrachloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Benzene	0.131	0.129	0.091	0.010	0.034
1,2-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichloroethene	(0.001)	(0.001)	0.001	(0.001)	(0.001)
1,2-Dichloropropane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromodichloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Toluene	0.200	0.217	0.133	0.016	0.010
trans-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methyl methacrylate	(0.006)	(0.006)	(0.003)	(0.002)	(0.002)
4-Methyl-2-pentanone	(0.005)	(0.004)	(0.002)	(0.001)	(0.001)
Tetrachloroethene	0.015	0.028	0.016	(0.001)	(0.001)
Dibromochloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dibromoethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chlorobenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-3-2-A, B T/TC	T-V-3-3-A, B T/TC	T-V-4-1-A T	T-V-4-1-B TC	T-V-4-2-A T
Filename :	FX980	FX981	HW562	HW560	HW563
TLI Id :	214-27-17A,B	214-27-18A,B	214-27-20A	214-27-20B	214-27-21A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug

	T-V-3-2-A	T-V-3-3-A	T-V-4-1-A	T-V-4-1-B	T-V-4-2-A
Ethylbenzene	0.065	0.071	0.018	0.001	(0.001)
m-/p-Xylene	0.314	0.379	0.056	0.002	(0.001)
o-Xylene	0.118	0.124	0.024	0.001	(0.001)
Styrene	0.036	0.037	0.025	0.002	0.003
Bromoform	(0.002)	(0.002)	(0.001)	(0.001)	(0.001)
2-Hexanone	(0.008)	(0.008)	(0.002)	(0.002)	(0.002)
Cumene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2,2-Tetrachloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-3-2-A, B T/TC	T-V-3-3-A, B T/TC	T-V-4-1-A T	T-V-4-1-B TC	T-V-4-2-A T
Filename :	FX980	FX981	HW562	HW560	HW563
TLI Id :	214-27-17A,B	214-27-18A,B	214-27-20A	214-27-20B	214-27-21A
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
1,3-Butadiene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Vinyl bromide	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
MTBE	0.022	0.015	0.114	0.014	(0.002)
n-Hexane	0.135	0.142	0.034	0.005	0.006
1,2-Epoxybutane	(0.024)	(0.023)	(0.055)	(0.046)	(0.041)
Iso-Octane	(0.001)	(0.001)	0.012	0.010	(0.001)
Ethyl acrylate	(0.007)	(0.006)	(0.001)	(0.001)	(0.001)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-4-2-B TC	T-V-4-4-A T	T-V-FB-A,B T/TC	VOSTBLK 08 0998 T/TC	VOSTBLK 08 2198 T/TC
Filename :	HW561	FX983	FX953	HW559	FX952
TLI Id :	214-27-21B	214-27-23A	214-27-9A,B	VOSTBLK 0809	VOSTBLK 0821
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Chloromethane	0.015	(0.001)	(0.001)	0.015	(0.001)
Vinyl Chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromomethane	0.004	(0.001)	(0.001)	0.010	(0.001)
Chloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichlorofluoromethane	0.003	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methylene chloride	1.666	0.009	0.054	0.001	(0.001)
trans-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,2-Dichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chloroform	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,1-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Iodomethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Carbon disulfide	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acetone	0.033	(0.004)	(0.005)	(0.004)	(0.005)
Allyl chloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Acrylonitrile	(0.006)	(0.021)	(0.025)	(0.006)	(0.024)
Vinyl acetate	(0.001)	(0.001)	(0.002)	(0.001)	(0.002)
2-Butanone	(0.004)	(0.004)	(0.005)	(0.003)	(0.004)
Carbon tetrachloride	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Benzene	0.015	0.071	0.006	0.048	0.039
1,2-Dichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Trichloroethene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dichloropropane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Bromodichloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cis-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Toluene	0.007	0.158	0.006	0.003	(0.001)
trans-1,3-Dichloropropene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2-Trichloroethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Methyl methacrylate	(0.002)	(0.006)	(0.006)	(0.002)	(0.006)
4-Methyl-2-pentanone	(0.001)	(0.005)	(0.004)	(0.001)	(0.004)
Tetrachloroethene	(0.001)	0.022	(0.001)	(0.001)	(0.001)
Dibromochloromethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,2-Dibromoethane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Chlorobenzene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)

TENANT  
 FURNISHING

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-4-2-B TC	T-V-4-4-A T	T-V-FB-A,B T/TC	VOSTBLK 08 0998 T/TC	VOSTBLK 08 2198 T/TC
Filename :	HW561	FX983	FX953	HW559	FX952
TLI Id :	214-27-21B	214-27-23A	214-27-9A,B	VOSTBLK 0809	VOSTBLK 0821
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
Ethylbenzene	(0.001)	0.022	(0.001)	(0.001)	(0.001)
m-/p-Xylene	(0.001)	0.057	(0.001)	(0.001)	(0.001)
o-Xylene	(0.001)	0.024	(0.001)	(0.001)	(0.001)
Styrene	0.001	0.009	(0.001)	0.001	(0.001)
Bromoform	(0.001)	(0.002)	(0.002)	(0.001)	(0.002)
2-Hexanone	(0.002)	(0.008)	(0.008)	(0.002)	(0.009)
Cumene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
1,1,2,2-Tetrachloroethane	(0.001)	(0.002)	(0.001)	(0.001)	(0.003)

**Triangle Laboratories, Inc.**  
**Project Summary for Project 46323**

Client ID:	T-V-4-2-B TC	T-V-4- <del>2</del> -A T <i>cmc</i>	T-V-FB-A,B T/TC	VOSTBLK 08 0998 T/TC	VOSTBLK 08 2198 T/TC
Filename :	HW561	FX983	FX953	HW559	FX952
TLI Id :	214-27-21B	214-27-23A	214-27-9A,B	VOSTBLK 0809	VOSTBLK 0821
Matrix :	VOST	VOST	VOST	VOST	VOST
Units :	ug	ug	ug	ug	ug
1,3-Butadiene	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Vinyl bromide	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
MTBE	(0.002)	<b>0.037</b>	(0.001)	(0.002)	(0.001)
n-Hexane	<b>0.003</b>	<b>0.041</b>	(0.001)	(0.001)	(0.001)
1,2-Epoxybutane	(0.045)	(0.025)	(0.025)	(0.041)	(0.024)
Iso-Octane	(0.001)	<b>0.010</b>	(0.001)	(0.001)	(0.001)
Ethyl acrylate	(0.001)	(0.007)	(0.004)	(0.001)	(0.004)

Triangle Laboratories, Inc.  
Project Summary for Project 46323

Client ID: VOSTBLK 08  
2498 T/TC

Filename : FX974  
TLI Id : VOSTBLK 0824  
Matrix : VOST  
Units : ug

---

Chloromethane	(0.001)
Vinyl Chloride	(0.001)
Bromomethane	(0.001)
Chloroethane	(0.001)
Trichlorofluoromethane	(0.001)
1,1-Dichloroethene	(0.001)
Methylene chloride	(0.001)
trans-1,2-Dichloroethene	(0.001)
1,1-Dichloroethane	(0.001)
cis-1,2-Dichloroethene	(0.001)
Chloroform	(0.001)
1,1,1-Trichloroethane	(0.001)
Iodomethane	(0.001)
Carbon disulfide	(0.001)
Acetone	(0.006)
Allyl chloride	(0.001)
Acrylonitrile	(0.029)
Vinyl acetate	(0.002)
2-Butanone	(0.005)
Carbon tetrachloride	(0.001)
Benzene	(0.001)
1,2-Dichloroethane	(0.001)
Trichloroethene	(0.001)
1,2-Dichloropropane	(0.001)
Bromodichloromethane	(0.001)
cis-1,3-Dichloropropene	(0.001)
Toluene	(0.001)
trans-1,3-Dichloropropene	(0.001)
1,1,2-Trichloroethane	(0.001)
Methyl methacrylate	(0.008)
4-Methyl-2-pentanone	(0.006)
Tetrachloroethene	(0.001)
Dibromochloromethane	(0.001)
1,2-Dibromoethane	(0.001)
Chlorobenzene	(0.001)

( ) - Estimated Detection Limit Page 7

Triangle Laboratories, Inc.  
Project Summary for Project 46323

Client ID: VOSTBLK 08  
2498 T/TC

Filename : FX974  
TLI Id : VOSTBLK 0824  
Matrix : VOST  
Units : ug

---

Ethylbenzene	(0.001)
m-/p-Xylene	(0.001)
o-Xylene	(0.001)
Styrene	(0.001)
Bromoform	(0.003)
2-Hexanone	(0.013)
Cumene	(0.001)
1,1,2,2-Tetrachloroethane	(0.002)

Triangle Laboratories, Inc.  
Project Summary for Project 46323

Client ID: VOSTBLK 08  
2498 T/TC

Filename : FX974  
TLI Id : VOSTBLK 0824  
Matrix : VOST  
Units : ug

---

1,3-Butadiene	(0.001)
Vinyl bromide	(0.001)
MTBE	(0.001)
n-Hexane	(0.001)
1,2-Epoxybutane	(0.035)
Iso-Octane	(0.001)
Ethyl acrylate	(0.009)



PACIFIC ENVIRONMENTAL SERVICES, INC.

Central Park West  
5001 South Miami Boulevard, P.O. Box 12077  
Research Triangle Park, North Carolina 27709-2077  
(919) 941-0333 FAX: (919) 941-0234

Sample Chain of Custody Record

PLANT: US EPA HOT MIX ASPHALT PLANT C PROJECT NO.: R012.001  
RECOVERY PERSON: Abernathy, Maret SAMPLERS: Abernathy, Maret

Sample Identification	Collection		Sample Name	Number of Containers	Analytical Request				Comments
	Date	Time							
S-V-2-1-A	7/25/98		Silo 2 Run 2 Set 1	1					Tenax
S-V-2-1-B	7/25/98		Silo 2 Run 2 Set 1	1					Tenax/Charcoal
S-V-2-2-A	7/25/98		Silo 2 Run 2 Set 2	1					Tenax
S-V-2-2-B	7/25/98		Silo 2 Run 2 Set 2	1					Tenax/Charcoal
S-V-2-3-A	7/25/98		Silo 2 Run 2 Set 3	1					Tenax
S-V-2-3-B	7/25/98		Silo 2 Run 2 Set 3	1					Tenax/Charcoal
S-V-2-4-A	7/25/98		Silo 2 Run 2 Set 4	1					Tenax
S-V-2-4-B	7/25/98		Silo 2 Run 2 Set 4	1					Tenax/Charcoal
T-V-2-1-A	7/25/98		Tunnel Run 2 Set 1	1					Tenax
T-V-2-1-B	7/25/98		Tunnel Run 2 Set 1	1					Tenax/Charcoal
T-V-2-2-A	7/25/98		Tunnel Run 2 Set 2	1					Tenax
T-V-2-2-B	7/25/98		Tunnel Run 2 Set 2	1					Tenax/Charcoal
T-V-2-3-A	7/25/98		Tunnel Run 2 Set 3	1					Tenax
T-V-2-3-B	7/25/98		Tunnel Run 2 Set 3	1					Tenax/Charcoal
T-V-2-4-A	7/25/98		Tunnel Run 2 Set 4	1					Tenax
T-V-2-4-B	7/25/98		Tunnel Run 2 Set 4	1					Tenax/Charcoal
T-V-FB-A	7/25/98		Tunnel Field Blank	1					Tenax
T-V-FB-B	7/25/98		Tunnel Field Blank	1					Tenax/Charcoal
S-V-3-1-A	7/27/98		Silo 2 Run 3 Set 1	1					Tenax
S-V-3-1-B	7/27/98		Silo 2 Run 3 Set 1	1					Tenax/Charcoal
S-V-3-2-A	7/27/98		Silo 2 Run 3 Set 2	1					Tenax
S-V-3-2-B	7/27/98		Silo 2 Run 3 Set 2	1					Tenax/Charcoal
S-V-3-3-A	7/27/98		Silo 2 Run 3 Set 3	1					Tenax
S-V-3-3-B	7/27/98		Silo 2 Run 3 Set 3	1					Tenax/Charcoal
S-V-3-4-A	7/27/98		Silo 2 Run 3 Set 4	1					Tenax
S-V-3-4-B	7/27/98		Silo 2 Run 3 Set 4	1					Tenax/Charcoal
S-V-3-5-A	7/27/98		Silo 2 Run 3 Set 5	1					Tenax
S-V-3-5-B	7/27/98		Silo 2 Run 3 Set 5	1					Tenax/Charcoal
S-V-3-6-A	7/27/98		Silo 2 Run 3 Set 6	1					Tenax
S-V-3-6-B	7/27/98		Silo 2 Run 3 Set 6	1					Tenax/Charcoal
T-V-3-1-A	7/27/98		Tunnel Run 3 Set 1	1					Tenax



PACIFIC ENVIRONMENTAL SERVICES, INC.

Central Park West  
 5001 South Miami Boulevard, P.O. Box 12077  
 Research Triangle Park, North Carolina 27709-2077  
 (919) 941-0333 FAX: (919) 941-0234

Sample Chain of Custody Record

PLANT: US EPA HOT MIX ASPHALT PLANT C PROJECT NO.: R012.001  
 RECOVERY PERSON: Abernathy, Maret SAMPLERS: Abernathy, Maret

Sample Identification	Collection		Sample Name	Number of Containers	Analytical Request		Comments		
	Date	Time							
T-V-3-1-B	7/27/98		Tunnel Run 3 Set 1	1			Tenax/Charcoal		
T-V-3-2-A	7/27/98		Tunnel Run 3 Set 2	1			Tenax		
T-V-3-2-B	7/27/98		Tunnel Run 3 Set 2	1			Tenax/Charcoal		
T-V-3-3-A	7/27/98		Tunnel Run 3 Set 3	1			Tenax		
T-V-3-3-B	7/27/98		Tunnel Run 3 Set 3	1			Tenax/Charcoal		
S-V-FB-A	7/26/98		Silo Field Blank	1			Tenax		
S-V-FB-B	7/26/98		Silo Field Blank	1			Tenax/Charcoal		
T-V-4-1-A	7/26/98		Tunnel Run 4 Set 1	1			Tenax		
T-V-4-1-B	7/26/98		Tunnel Run 4 Set 1	1			Tenax/Charcoal		
T-V-4-2-A	7/26/98		Tunnel Run 4 Set 2	1			Tenax		
T-V-4-2-B	7/26/98		Tunnel Run 4 Set 2	1			Tenax/Charcoal		
T-V-4-3-A	7/26/98		Tunnel Run 4 Set 3	1			Tenax		
T-V-4-3-B	7/26/98		Tunnel Run 4 Set 3	1			Tenax/Charcoal		
T-V-4-4-A	7/26/98		Tunnel Run 4 Set 4	1			Tenax		
T-V-4-4-B	7/26/98		Tunnel Run 4 Set 4	1			Tenax/Charcoal		
Relinquished by: <i>M. Abernathy</i>				Date:	7/20/98	Time:	1030	Received by:	<i>[Signature]</i>
Relinquished by: <i>[Signature]</i>				Date:	7/29/98	Time:	1200	Received for Lab by:	<i>Bill Turner</i>

*Handwritten:* COPY

Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

TLI Project Number 46323  
 Client: PES03 - Pacific Environmental Services

Date Received 07/29/98 By *Handwritten Signature*

Carrier and Number FedEx/ Page 27

TLI Number mg/H/CPM	Client Sample ID .....	Matrix Location	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init						
214-27-1A	S-V-2-1-A	R026	TENAX								
214-27-1B	S-V-2-1-B	R026	TENAX/CHAR								
214-27-2A	S-V-2-2-A	R026	TENAX								
214-27-2B	S-V-2-2-B	R026	TENAX/CHAR								
214-27-3A	S-V-2-3-A	R026	TENAX								
214-27-3B	S-V-2-3-B	R026	TENAX/CHAR								
214-27-4A	S-V-2-4-A	R026	TENAX								
214-27-4B	S-V-2-4-B	R026	TENAX/CHAR								
214-27-5A	T-V-2-1-A	R026	TENAX								
214-27-5B	T-V-2-1-B	R026	TENAX/CHAR								
214-27-6A	T-V-2-2-A	R026	TENAX								
214-27-6B	T-V-2-2-B	R026	TENAX/CHAR								
214-27-7A	T-V-2-3-A	R026	TENAX								
214-27-7B	T-V-2-3-B	R026	TENAX/CHAR								

Receiving Remarks:

Archive Remarks:

TLI Project Number 46123  
 Client: PES03 - Pacific Environmental Services

Book  
 214

Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

Sample Seals: Absent  
 Container: Intact

Date Received 07/29/98 By *[Signature]* Page 27

TLI Number	Client Sample ID	Matrix	To LAB Date/Init	To STORAGE Date/Init	To IAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init	Temp	ICE PACKS
214-27-8A	T-V-2-4-A													6.0 C	TENAX
214-27-8B	T-V-2-4-B														TENAX/CHAR
214-27-9A	T-V-FB-A														TENAX
214-27-9B	T-V-FB-B														TENAX/CHAR
214-27-10A	S-V-3-1-A														TENAX
214-27-10B	S-V-3-1-B														TENAX/CHAR
214-27-11A	S-V-3-2-A														TENAX
214-27-11B	S-V-3-2-B														TENAX/CHAR
214-27-12A	S-V-3-3-A														TENAX
214-27-12B	S-V-3-3-B														TENAX/CHAR
214-27-13A	S-V-3-4-A														TENAX
214-27-13B	S-V-3-4-B														TENAX/CHAR
214-27-14A	S-V-3-5-A														TENAX
214-27-14B	S-V-3-5-B														TENAX/CHAR

Receiving Remarks:

Archive Remarks:

Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

Sample Seals: Absent  
 Container: Intact

TLI Project Number 46323  
 Client: PES03 - Pacific Environmental Services

Date Received 07/29/98 By *[Signature]*

Page 214

TLI Number	Client Sample ID	Matrix	ICE PACKS		Temp	Carrier and Number		FedEx/		DISPOSED
			To LAB	To STORAGE		Date/Init	Date/Init	Date/Init	Date/Init	
214-27-15A	S-V-3-6-A	TENAX			6.0 C					
214-27-15B	S-V-3-6-B	TENAX								
214-27-16A	T-V-3-1-A	TENAX								
214-27-16B	T-V-3-1-B	TENAX								
214-27-17A	T-V-3-2-A	TENAX								
214-27-17B	T-V-3-2-B	TENAX								
214-27-18A	T-V-3-3-A	TENAX								
214-27-18B	T-V-3-3-B	TENAX								
214-27-19A	S-V-FB-A	TENAX								
214-27-19B	S-V-FB-B	TENAX								
214-27-20A	T-V-4-1-A	TENAX								
214-27-20B	T-V-4-1-B	TENAX								
214-27-21A	T-V-4-2-A	TENAX								
214-27-21B	T-V-4-2-B	TENAX								

Receiving Remarks:

Archive Remarks:

Custody Seal : Absent  
 Chain of Custody : Present  
 Sample Tags : Absent  
 Sample Tag Numbers: Not Listed on Chain of Custody  
 SMO Forms : N/A

Sample Seals: Absent  
 Container: Intact

TRI Project Number 46123  
 Client: PSS03 - Pacific Environmental Services

Date Received 07/29/98  
 Carrier and Number FedEx/

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TI# Number	Client Sample ID	Location	Matrix	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init								
214-27-22A	T-V-4-3-A	R026	TENAX											
214-27-22B	T-V-4-3-B	R026	TNX/CHAR											
214-27-23A	T-V-4-4-A	R026	TENAX											
214-27-23B	T-V-4-4-B	R026	TNX/CHAR											

Ice Chest  
 ICE PACKS  
 Temp 6.0 C

Receiving Remarks:

Archive Remarks:

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBS*	Other*
DB624	3274056	8260	USA	V043	8260B	8266X

Internal / Surrogate / Recover	Internal / Surrogate / Recover	Analyte
V55-92-3 app. 8/21/98 @ 25ug/ml	V55-92-2 app. 8/21/98 @ 25ug/ml	

Standards  
Extract / Sample volume \_\_\_\_\_ µL \_\_\_\_\_ mL  
Circle unit  
Signature: *Terry C. Spindel* Date: 8/19/98

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	01:57	---	2.00 V55-92-3 app. 8/21/98	BFB	HW549	N/A	SL 8/19/98	10 8/19/98	SL	
8/19/98	02:26	---	10.00 V55-92-4 app. 8/22/98	V05TD0.10 TITC	HW550	N/A	SL 8/19/98		SL	
8/19/98	03:17	---	10.00 V55-92-4 app. 8/22/98	V05TD0.10 TITC	HW551	N/A	SL 8/19/98		SL	
8/19/98	03:52	---	10.00 V55-93-1 app. 8/22/98	V05TD0.25 TITC	HW552	N/A	SL 8/19/98		SL	
8/19/98	04:23	---	10.00 V55-93-2 app. 8/22/98	V05TD0.50 TITC	HW553	N/A	SL 8/19/98		SL	
8/19/98	04:55	---	10.00 V55-93-3 app. 8/22/98	V05TD0.75 TITC	HW554	N/A	SL 8/19/98		SL	
8/19/98	05:27	---	10.00 V55-94-1 app. 8/22/98	V05TD1.00 TITC	HW555	N/A	SL 8/19/98		SL	
8/19/98	06:01	---	10.00 V55-92-2 app. 8/21/98	BLK	HW556	N/A	SL 8/19/98		SL	
8/19/98	06:40	---	10.00 V55-90-2 app. 8/12/98	V05D0.50 TITC	HW557	N/A	SL 8/19/98		SL	single pt.
8/19/98	07:49	---	10.00 V55-92-2 app. 8/22/98	VEGETABLE TITC	HW558	N/A	SL 8/19/98	10 8/19/98	SL	

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	3274056	8260	VIA	VIA3	82606	82668

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	Standards
VS9-92-2 <sup>2</sup> exp. 8/24/58	VS9-92-2 <sup>2</sup> exp. 8/24/58		
VS9-92-2 <sup>2</sup> exp. 8/24/58	VS9-92-2 <sup>2</sup> exp. 8/24/58		

Extract / Sample volume \_\_\_\_\_ µL mL  
 \_\_\_\_\_  
 Signature Date 8/15/58

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/15/58	08:28	—	VS9-92-2 <sup>2</sup> exp. 8/24/58	VOSTRIK TITC	HWS59	n/a	SL 8/15/58	1 <sup>1</sup> 8/15/58	SL	
8/15/58	09:11	46323	214-27-20A	F-V-4-1-B TIC	HWS60	n/a	SL 8/15/58	1 <sup>1</sup>	SL	
8/15/58	09:46	46323	214-27-21B	F-V-4-2-B TIC	HWS61	n/a	SL 8/15/58	1 <sup>1</sup>	SL	
8/15/58	10:37	46323	214-27-20A	F-V-4-1-A T	HWS62	n/a	SL 8/15/58	1 <sup>1</sup>	SL	
8/15/58	11:11	46323	214-27-21A	F-V-4-2-A T	HWS63	n/a	SL 8/15/58	1 <sup>1</sup>	SL	

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	8260	VDA	VDA3	8260B	

Standards		Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
USA-92-3	@ 25ug/ml	USA-44-3	@ 25ug/ml	
exp 8/2/98		exp 8/2/98		

Extract / Sample volume \_\_\_\_\_ µL mL  
 Signature Lenny Good 8/2/98 Date

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/21/98	5:22	---	164 USA-92-4 exp 8/2/98	VOSTD0.25 TITC	EX941	N/A	LG 8/21/98		R	low sensitivity 8/21/98
8/21/98	6:15	---	204 USA-92-3 exp 8/2/98	BBB	EX942	N/A	LG 8/21/98		R	
8/21/98	6:48	---	104 USA-92-3 exp 8/2/98	VOSTD0.10 I/TIC	EX943	N/A	LG 8/21/98		R	
8/21/98	07:55	---	104 USA-92-3 exp 8/2/98	VOSTD0.25 TITC	EX944	N/A	LG 8/21/98		R	
8/21/98	08:58	---	114 USA-93-2 exp 8/2/98	VOSTD0.50 TITC	EX945	N/A	LG 8/21/98		R	
8/21/98	05:39	---	104 USA-93-4 exp 8/2/98	VOSTD0.75 TITC	EX946	N/A	LG 8/21/98		R	
8/21/98	10:22	---	104 USA-94-1 exp 8/2/98	VOSTD1.00 TITC	EX947	N/A	LG 8/21/98		R	
8/21/98	11:10	---	104 USA-95-1 exp 8/2/98	VOSTD1.00 TITC	EX948	N/A	LG 8/21/98		R	
8/21/98	11:56	---	104 USA-95-1 exp 8/2/98	VOSTD1.00 TITC	EX949	N/A	LG 8/21/98		R	
8/21/98	12:5	104 USA-96-1 exp 8/2/98	164 USA-95-2 exp 8/2/98	VOSTD0.50 TITC	EX950	N/A	LG 8/21/98		R	

• Volatile Data Only      \*\* Transcribed Data      \*\*\* Dated Signature/Initials Required      Page 32

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6251633	8260	UPL	UPL3	82604	8260X

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	Extract / Sample volume	Circle unit
U55-93-2 exp 8/21/98 @ 25µl/ml	U55-93-4 exp 8/19/98 @ 25µl/ml		100µl 100µl	µl ml

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/21/98	13:40	—	U55-93-4 exp 8/19/98	VOSTBLK T/TC	EX951	N/A	AL 8/21/98		AL	
8/21/98	14:23	—	U55-93-4 exp 8/19/98	VOSTBLK T/TC	EX952	N/A	AL 8/21/98		AL	
8/21/98	—	46323	U114-27-9A exp 8/22/98	F-V-13-A48 T/TC	EX953	N/A	AL 8/21/98		AL	
8/21/98	00:36	—	U55-93-2 exp 8/22/98	BFB	EX954	N/A	LG 8/22/98		LG	sensitivity low 8/22/98
8/21/98	00:55	—	U55-93-2 exp 8/22/98	BFB	EX955	N/A	LG 8/22/98		LG	
8/21/98	11:22	—	U55-93-4 exp 8/22/98	VOSTDO.25 T/TC	EX956	N/A	LG 8/22/98		LG	
8/21/98	2:12	—	U55-93-4 exp 8/22/98	VOSTDO.25 T/TC	EX957	N/A	LG 8/22/98		LG	
8/21/98	2:54	100µl U55-93-1 exp 8/22/98	U55-93-11 exp 8/22/98	VOSTDO.50 T/TC Addt. Events	EX958	N/A	LG 8/22/98		LG	sensitivity dropped out 8/22/98
8/21/98	3:32	100µl U55-93-1 exp 8/22/98	U55-93-4 exp 8/22/98	VOSTDO.50 T/TC	EX959	N/A	LG 8/22/98		LG	11 changed tube 11 8/22/98
8/21/98	4:20	—	U55-93-11 exp 8/22/98	VOSTBLK T/TC	EX960	N/A	LG 8/22/98		LG	

Signature: *Lesley E. Spruill*  
Date: 8/22/98

• Volatile Data Only      • Transcribed Data      • Dated Signature/Initials Required      Page 33

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBS*	Other*
DB624	6252663	8260	V0A-	V0A3	8260B	

Internal / Surrogate / Recovery		Internal / Surrogate / Recovery	
US4-43-2	exp 8/22/98 @ 25 ug/ml	US4-45-4	exp 8/22/98 @ 25 ug/ml

Standards  
Extract / Sample volume \_\_\_\_\_ µL mL  
Signature Larry Gold Date 8/22/98

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/22/98	5:03	—	10u4 US4-45-11 exp 8/22/98	V0STBLK T/TC	FX961	N/A	LG 8/22/98		LG	Changed lines 19 parts
8/22/98	6:24	—	10u4 US4-45-4 exp 8/22/98	V0STBLK T/TC	FX962	N/A	LG 8/22/98		K5	shorted return - flow OK, maybe electrical 19 parts
8/22/98	7:16	—	10u4 US4-45-4 exp 8/22/98	V0STBLK T/TC	FX963	N/A	LG 8/22/98		LG	
8/22/98	23:52	—	2u4 US4-46-2 exp 8/22/98	BFB	FX964	N/A	LG 8/23/98		LG	
8/22/98	00:43	—	10u4 US4-45-3 exp 8/22/98	V0STDO.25 T/TC	FX965	N/A	LG 8/22/98		LG	low sensitivity 19 parts
8/22/98	1:34	—	10u4 US4-45-3 exp 8/22/98	V0STDO.25 T/TC	FX966	N/A	LG 8/22/98		LG	" " 8/22/98
8/22/98	2:28	—	2u4 US4-46-2 exp 8/22/98	BFB	FX967	N/A	LG 8/22/98		LG	
8/22/98	2:59	—	10u4 US4-45-3 exp 8/22/98	V0STDO.25 T/TC	FX968	N/A	LG 8/22/98		LG	ketones missing 19 parts
8/22/98	3:46	—	10u4 US4-45-3 exp 8/22/98	V0STDO.25 T/TC	FX969	N/A	LG 8/22/98		LG	
8/22/98	4:42	—	2u4 US4-46-2 exp 8/22/98	BFB	FX970	N/A	LG 8/22/98		LG	

• Volatile Data Only      \*\* Transcribed Data      \*\*\* Dated Signature/Initials Required  
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Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	8260	UOA	UOA3	826DB	826BX

Standards

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
US9-46-2 @ 75 ug/ml	US2-45-4 @ 25 ug/ml	

Extract / Sample volume \_\_\_\_\_ µL mL  
 Signature Lucy Beck Date 8/24/58

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/21/58	5:12	---	10 µl US9-45-3 exp 8/21/58	VOSTDO.25 T/TC	FX971	n/a	LG 8/21/58		LC	
8/21/58	5:58	10 µl US9-46-1 exp 8/21/58	10 µl US9-45-4 exp 8/21/58	VOSTDO.S0 T/TC Additionals	FX972	n/a	LG 8/21/58		LC	
8/21/58		10 µl US9-46-1 exp 8/21/58	10 µl US9-45-4 exp 8/21/58	VOSTDO.S0 T/TC	FX973	n/a	LG 8/21/58		LC	
8/21/58	08:04	---	10 µl US9-45-4 exp 8/21/58	VOSTDO.L T/TC	FX974	n/a	LG 8/21/58		LC	
8/21/58	09:15	46323	214-27-5A,B	T-V-2-1-A,B T/TC	FX975	n/a	DL 8/21/58		DL	
8/21/58	10:02	46323	214-27-6A,B	T-V-2-2-A,B T/TC	FX976	n/a	DL 8/21/58		DL	
8/21/58	10:49	46323	214-27-7A,B	T-V-2-3-A,B T/TC	FX977	n/a	DL 8/21/58		DL	
8/21/58	11:35	46323	214-27-8A,B	T-V-2-4-A,B T/TC	FX978	n/a	DL 8/21/58		DL	
8/21/58	12:14	46323	214-27-10A,B	T-V-3-1-A,B T/TC	FX979	n/a	DL 8/21/58		DL	
8/24/58	13:02	46323	214-27-17A,B	T-V-3-2-A,B T/TC	FX980	n/a	DL 8/24/58		DL	

Triangle Laboratories, Inc.  
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	82600	V04	V043	82600	8260X

Standards		Analyte
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	
V55-26.2	V55-45.1	
Sp. 8/17/98 @ 25ug/hr	Sp. 9/16/98 @ 25ug/hr	

Extract / Sample volume \_\_\_\_\_ µL \_\_\_\_\_ mL  
 Signature: *Lorena E. Spradell* Date: 8/12/98

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/24/98	13:52	46323	214-27-18AB	V-3-3-A,B	EX981	N/A	SL 8/24/98		SL	
8/24/98	not started	46323	214-27-32AB	V-4-3A,B	EX982	N/A	SL 8/24/98		SL	Acquisition failure NO DATA
8/24/98	15:31	46323	214-27-38AB	V-4-4A,B	EX983	N/A	SL 8/24/98		SL	Temperature broken will check and repair off in coming days (Lorena)

SAMPLE  
DATA

Triangle Laboratories, Inc.  
801 Capitola Drive  
Durham, NC 27713-4411  
919-544-5729

P.O. Box 13485  
Research Triangle Park, NC 27709-3485  
Fax # 919-544-5491

**Pacific Environmental Services**

Project Number: 46323  
 Sample File: FX975

Method 8260 VOST  
 Sample ID: T-V-2-1-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-5A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane	0.056		1.09		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.036	J	1.64		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.014	J	2.06		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.104		2.77		0.05
Acetone	0.193		2.87		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.488		3.26		0.05
Acrylonitrile		U		0.026	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.005	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.263		5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46323  
 Sample File: FX975

Method 8260 VOST  
 Sample ID: T-V-2-1-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-5A,B

Date Received: 07/29/98  
 Date Analyzed : 08/24/98

Response File: ICALF821

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.008	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.006	0.05
Toluene	0.132		8.10		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.36		
Tetrachloroethene	0.017	J	8.92		0.05
2-Hexanone		U		0.011	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.015	J	10.69		0.05
m-/p-Xylene	0.078	J	10.93		0.10
o-Xylene	0.012	J	11.64		0.05
Styrene		U		0.001	0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.74		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: FX975

Method 8260 VOST  
Sample ID: T-V-2-1-A,B T/TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-5A,B

Date Analyzed: 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.219	5.18	1	88
Toluene-d <sub>8</sub>	0.277	8.00	2	111
4-Bromofluorobenzene	0.319	12.67	2	128

Reviewed by

*BAB*

Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 16:48 08/25/1998

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Pacific Environmental Services

Project Number: 46323  
 Sample File: FX975

Method 8260 VOST  
 Sample ID: T-V-2-1-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-5A,B

Date Received: 07/29/98

Response File: ICALF824

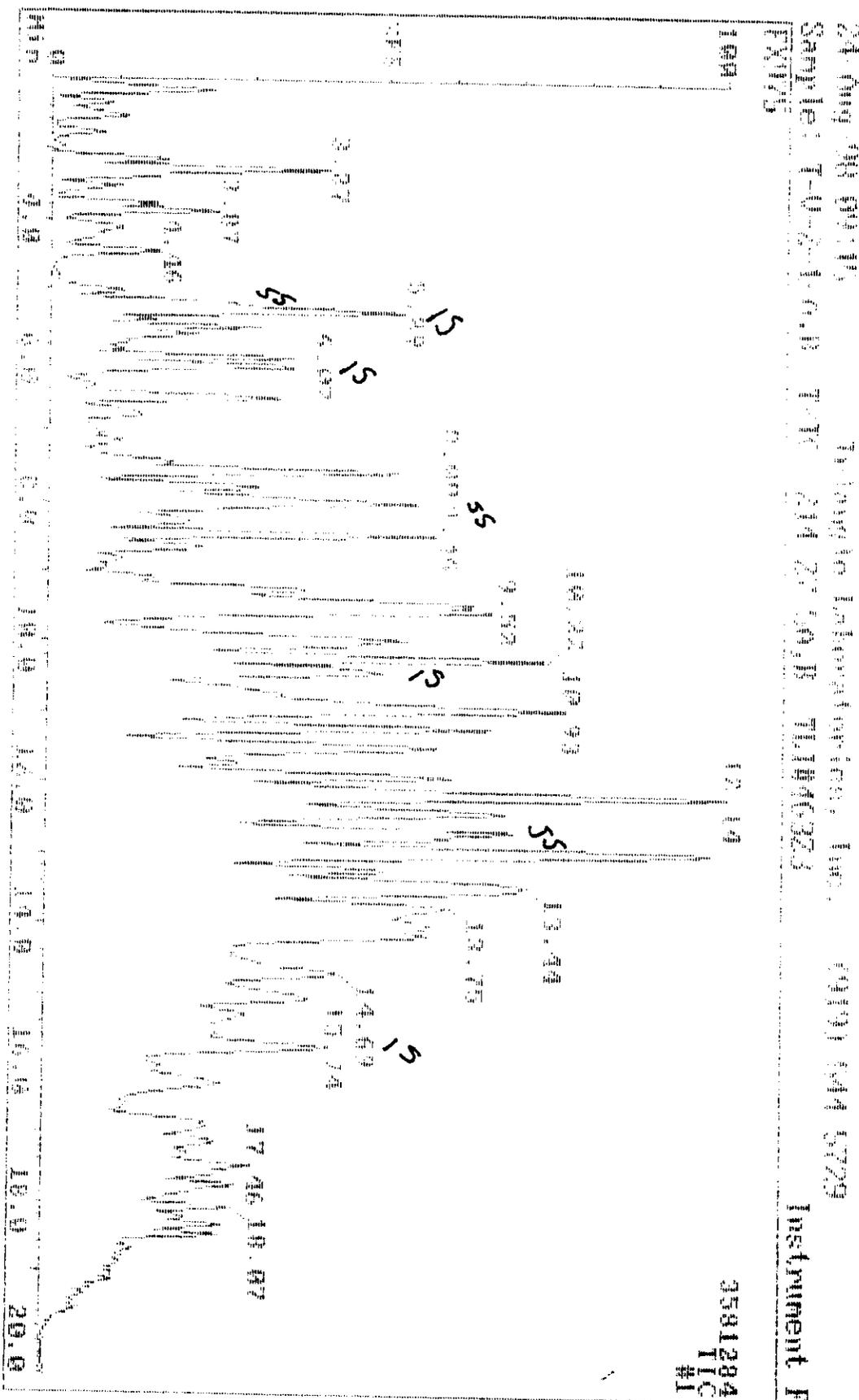
Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.033	J	3.62		0.25
n-Hexane	0.266		3.87		0.25
1,2-Epoxybutane		U		0.032	0.25
Iso-Octane	0.029	J	5.68		0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.008	0.25

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range



Data Review: *GAJ*  
Date: 8/24/98

No	QUAN	OR	REV	Del	Case	Case	PT	AM	Material
1	100	88	91	-5	3152002	180	5.300	104	Dimethylformamide
2	100	88	96	0	3025184	200	6.071	104	1,4-Dioxane
3	88	87	86	0	2000848	100	0.251	117	Chloroacetic acid
4	88	87	95	-1	1570368	0	15.737	152	1,2-Dichloroethane
5	91	95	98	1	1085120	100	3.131	117	Dichloromethane
6	99	70	71	1	4202850	200	3.901	98	Toluene
7	70	60	70	0	1067004	100	12.471	95	1,2-Dichloroethane
8	0	0	0	0	0	0	0.000	95	Dichloromethane
9	0	0	0	0	108609	(M) PAB	1.09	30	Dichloromethane
10	0	0	0	0	0	0	0.000	62	Acetyl chloride
11	56	57	5	0	109268	100	0.290	94	Diethylamine
12	0	0	0	0	0	0	0.000	94	Dichloromethane
13	0	0	0	0	140672	(M) PAB	2.06	101	1,2-Dichloroethane
14	0	0	0	0	0	0	0.000	96	1,2-Dichloroethane
15	0	0	0	0	0	0	0.000	107	1,2-Dichloroethane
16	30	30	0	0	101190	100	0.120	94	Diethylamine
17	29	30	0	0	10112	100	0.120	94	Diethylamine
18	0	0	0	0	0	0	0.000	94	Diethylamine
19	27	25	1	0	102000	100	0.120	94	Diethylamine
20	0	0	0	0	0	0	0.000	94	Diethylamine
21	0	0	0	0	0	0	0.000	94	Diethylamine
22	0	0	0	0	0	0	0.000	94	Diethylamine
23	0	0	0	0	0	0	0.000	94	Diethylamine
24	0	0	0	0	0	0	0.000	94	Diethylamine
25	0	0	0	0	0	0	0.000	94	Diethylamine
26	0	0	0	0	0	0	0.000	94	Diethylamine
27	0	0	0	0	0	0	0.000	94	Diethylamine
28	0	0	0	0	0	0	0.000	94	Diethylamine
29	0	0	0	0	0	0	0.000	94	Diethylamine
30	0	0	0	0	0	0	0.000	94	Diethylamine
31	0	0	0	0	0	0	0.000	94	Diethylamine
32	100	97	97	0	1761344	200	8.520	78	Benzene
33	0	0	0	0	0	0	0.000	92	1,2-Dichloroethane
34	0	0	0	0	0	0	0.000	130	Triethylamine
35	0	0	0	0	0	0	0.000	63	1,2-Dichloroethane
36	0	0	0	0	0	0	0.000	95	Dichloroethane
37	0	0	0	0	0	0	0.000	41	1,2-Dichloroethane
38	0	0	0	0	0	0	0.000	87	Dichloroethane
39	0	0	0	0	0	0	0.000	75	1,2-Dichloroethane
40	0	0	0	0	0	0	0.000	43	1,2-Dichloroethane
41	100	80	90	1	132850	200	3.100	92	Dichloroethane
42	0	0	0	0	0	0	0.000	79	1,2-Dichloroethane
43	0	0	0	0	0	0	0.000	97	1,2-Dichloroethane
44	0	0	0	0	0	0	0.000	69	Diethylamine
45	0	0	0	0	93520	(M) PAB	8.92	64	1,2-Dichloroethane
46	0	0	0	0	0	0	0.000	76	1,2-Dichloroethane
47	0	0	0	0	0	0	0.000	43	Dichloroethane
48	0	0	0	0	0	0	0.000	129	Dichloroethane
49	0	0	0	0	0	0	0.000	107	1,2-Dichloroethane
50	0	0	0	0	0	0	0.000	112	Chloroethane

Data Review: PAB  
Date: 8/24/98

No.	MGT	POP	REV	Unit	Weight	Flags	RT	MS Name
51	0	0	0	0	0		0.000	071 1,1,1,2-Tetrahydroisothiazole
52	41	20	47	0	006576	bb	0.001	006 Ethylbenzene
53	0	0	0	0	68947Z	(M) PA/B	<del>0.000</del> → 10.931	006 n-Propylbenzene
54	0	0	0	0	92880	(M) PA/B	<del>0.000</del> → 11.64	006 n-Butylbenzene
55	0	0	0	0	0		0.000	014 Toluene
56	0	0	0	0	0		0.000	072 Bromobenzene
57	0	0	0	0	0		0.000	001 Benzene
58	0	0	0	0	0		0.000	001 Benzene
59	0	0	0	0	0		0.000	001 Benzene
60	0	0	0	0	0		0.000	006 Ethylbenzene
61	0	0	0	0	0		0.000	006 Ethylbenzene
62	0	0	0	0	0		0.000	006 Ethylbenzene
63	0	0	0	0	0		0.000	006 Ethylbenzene
64	0	0	0	0	0		0.000	006 Ethylbenzene
65	0	0	0	0	0		0.000	006 Ethylbenzene
66	0	0	0	0	0		0.000	006 Ethylbenzene
67	0	0	0	0	0		0.000	006 Ethylbenzene
68	0	0	0	0	0		0.000	006 Ethylbenzene
69	0	0	0	0	0		0.000	006 Ethylbenzene
70	0	0	0	0	0		0.000	006 Ethylbenzene
71	0	0	0	0	0		0.000	006 Ethylbenzene
72	0	0	0	0	0		0.000	006 Ethylbenzene
73	0	0	0	0	0		0.000	006 Ethylbenzene
74	0	0	0	0	0		0.000	006 Ethylbenzene
75	0	0	0	0	0		0.000	006 Ethylbenzene
76	0	0	0	0	0		0.000	006 Ethylbenzene
77	0	0	0	0	0		0.000	006 Ethylbenzene
78	0	0	0	0	0		0.000	006 Ethylbenzene
79	0	0	0	0	0		0.000	006 Ethylbenzene

No.	MAT	FOR	REV	Del'ta	Area	P.F	Flags	RT	QM	Name
1	100	64	97	1	2152308	bb		5.101	168	Benzofluorobenzene
2	100	85	96	0	3294134	bv		6.071	114	1,4-Difluorobenzene
3	97	69	86	0	5603140	fw		10.561	117	Chlorobenzene-15
4	22	37	95	0	1523368	A		13.732	132	1,4-Dichlorobenzene-14
5	96	51	98	0	1085120	bb		5.131	115	Bromofluorobenzene
6	100	75	91	0	4200356	bv		8.001	96	Toluene-13
7	75	46	90	1	1612274	vv		12.671	95	4-Bromofluorobenzene
8	63	32	91	1	2000000	h	SP PAR	1.111	39	1,2-Dichloroethane
9	0	0	0	0	0			0.000	106	Benzyl bromide
10	82	66	91	1	37000	fw		3.620	75	MTBF
11	100	97	99	-1	1836000	bb	SP PAR	3.810	57	m-Benzoate
12	83	44	96	1	1000000	fw		9.900	47	1,2-Diphenylethane
13	80	57	91	0	600100	fw	SP PAR	5.681	77	Acetophenone
14	71	36	97	1	1000000	fw		1.000	38	1,2-Diphenylethane

24-Aug-98 09:15

Triangle Laboratories, Inc.

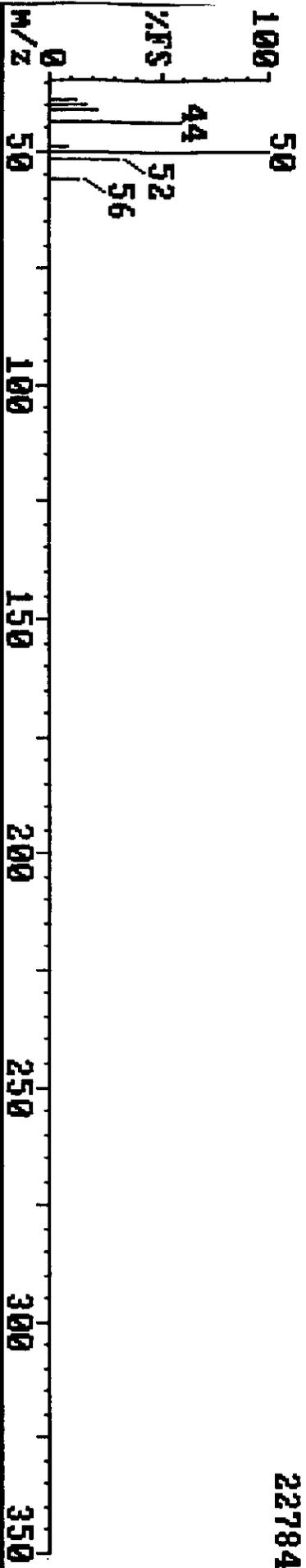
(919) 544-5729

Sample: T-U-2-1-A,B T/TC 214-27-5A,B TL1#46323

Instrument F

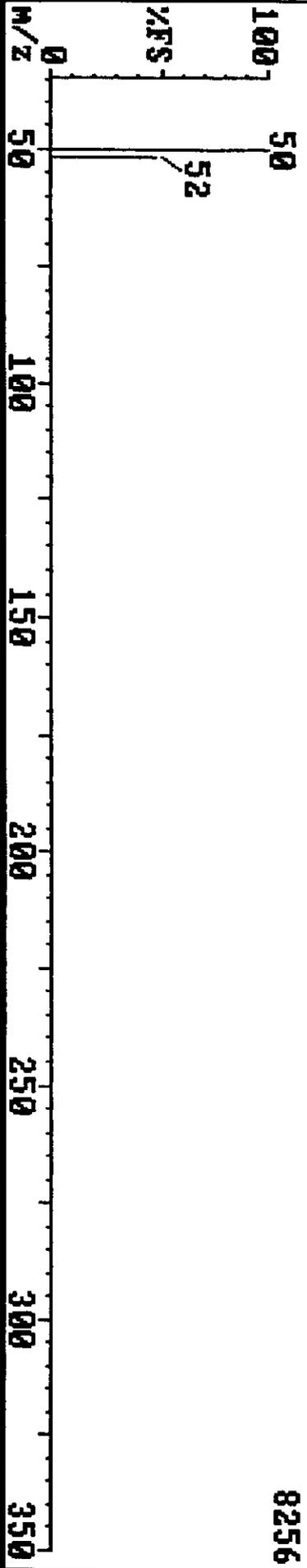
**FX975 109 (1.090)**

22784



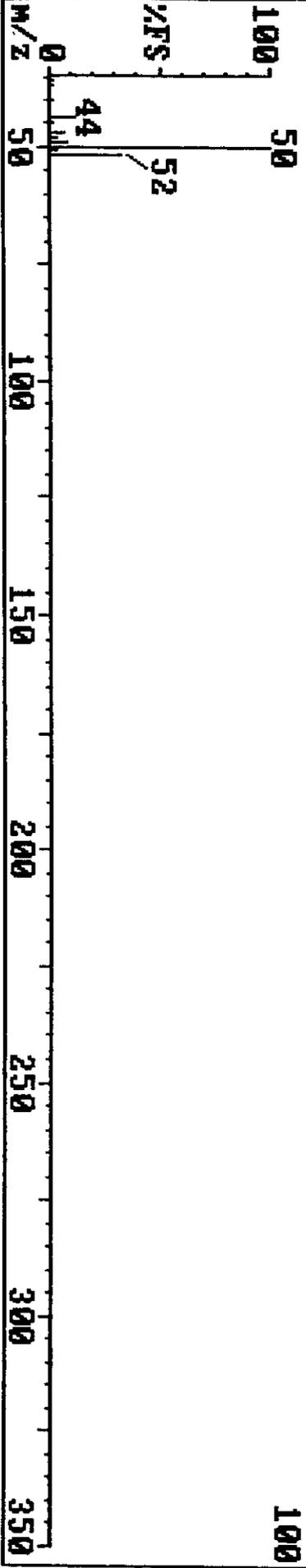
**FX975 109 (1.091) REFINE**

8256



**8260 9 (1.230) Chloromethane**

FIND 100





24-Aug-98 09:15

Triangle Laboratories, Inc.

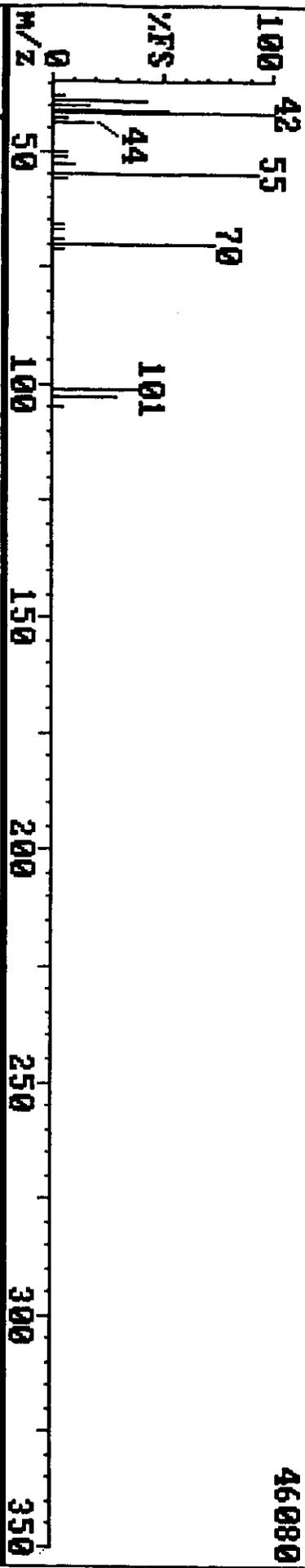
(919) 544-5729

Sample: T-U-2-1-A,B T/TC 214-27-5A,B TL#46323

Instrument F

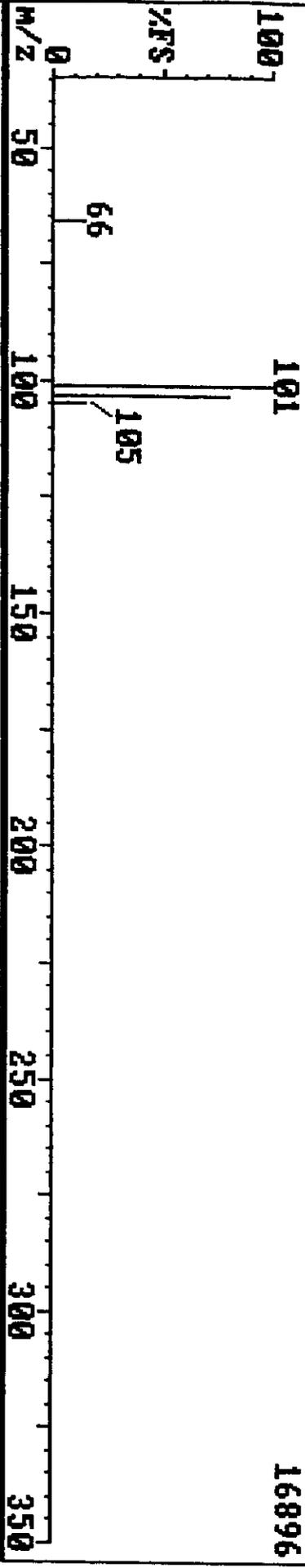
**FY975 206 (2.060)**

46080



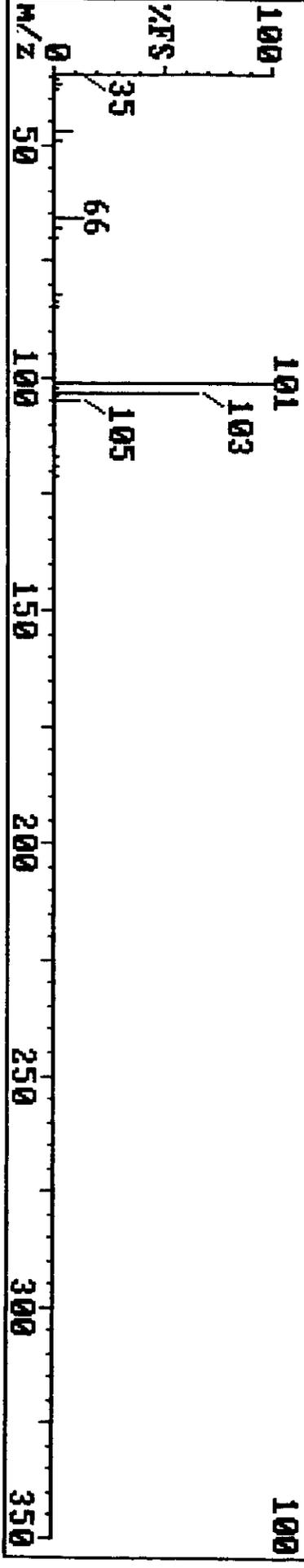
**FY975 206 (2.061) REFINE**

16896



**8260 13 (2.300) Trichlorofluoromethane**

FIND  
100





24-Aug-90 09:15 FLOW - LABORATORIES, INC. (419) 544-5729

Sample: T021A1 170 207 207 1146029 Instrument: F

FLOW 207 (2.070)

100 43 7936

44

59

43

100 100 100 200 250 300 350

100 43 6336

FLOW 207 (2.070) 1146029

100 43 6336

59

43

100 100 100 200 250 300 350

100 43 1000

FLOW 17 (2.070) 1146029

100 43 1000

43

43

43

100 100 100 200 250 300 350

100 43 250

24 Aug 59 09:45

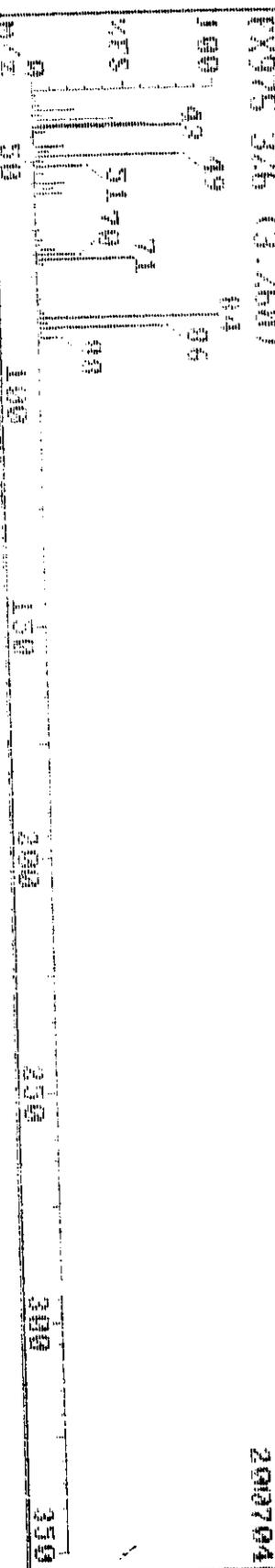
Triangle Laboratories, Inc. (919) 644-5723

Instrument F

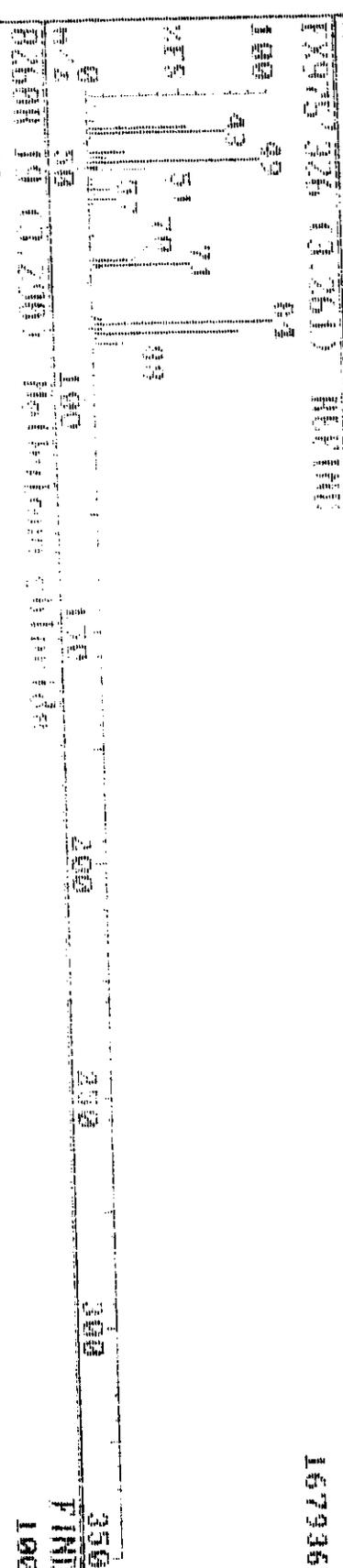
Sample: T-02 T-01

170 214 27 50 P. T146373

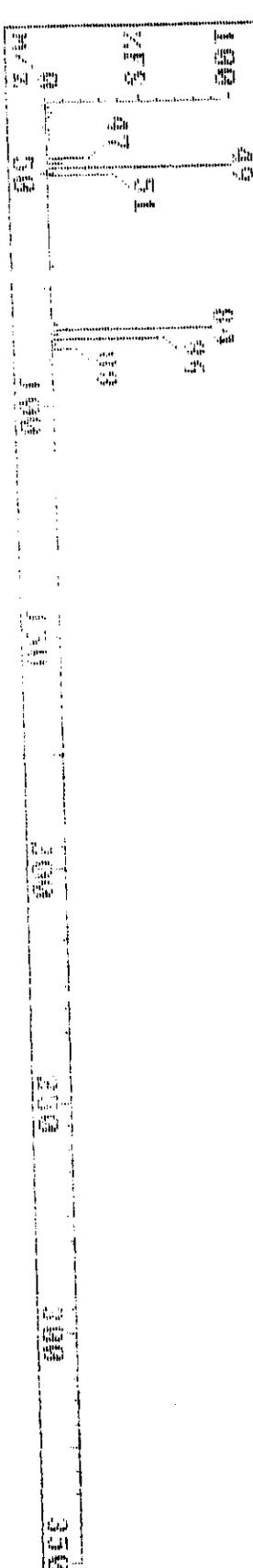
201704



167936



FIND 100



74-449-50 00015

74-449-50 00015

0000 54-572

Sample 1-02-100

100 24 27 100 10000

Instrument F

FX95 5Z 6.5ZD

100 79

549672

XTS 77

0 51

MZ 50

100

150

200

250

300

350

FX95 5Z 6.5ZD

100 79

512000

XTS 77

0 50

MZ 50

100

150

200

250

300

350

FX95 5Z 6.5ZD

100 79

FIND 100

XTS 77

0 50

MZ 50

100

150

200

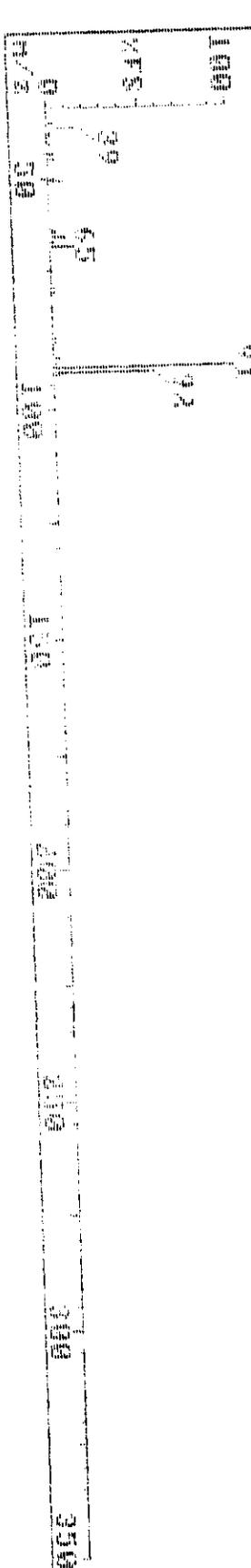
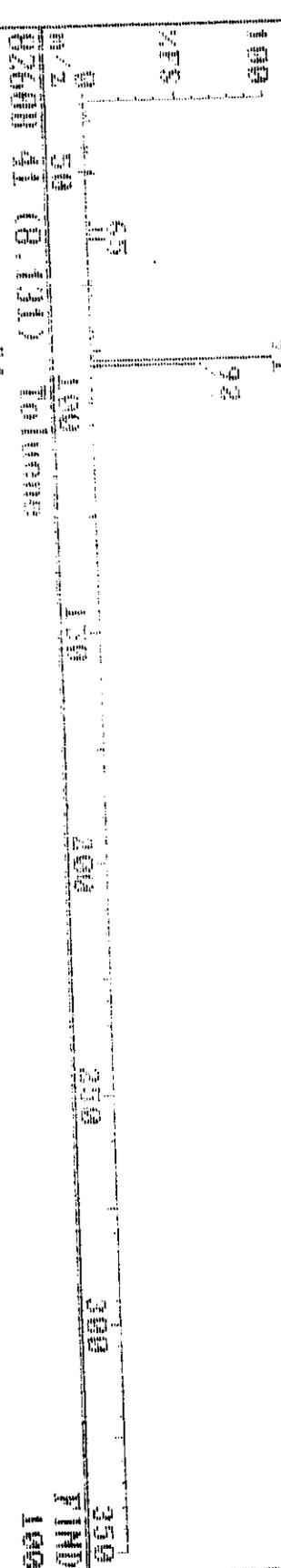
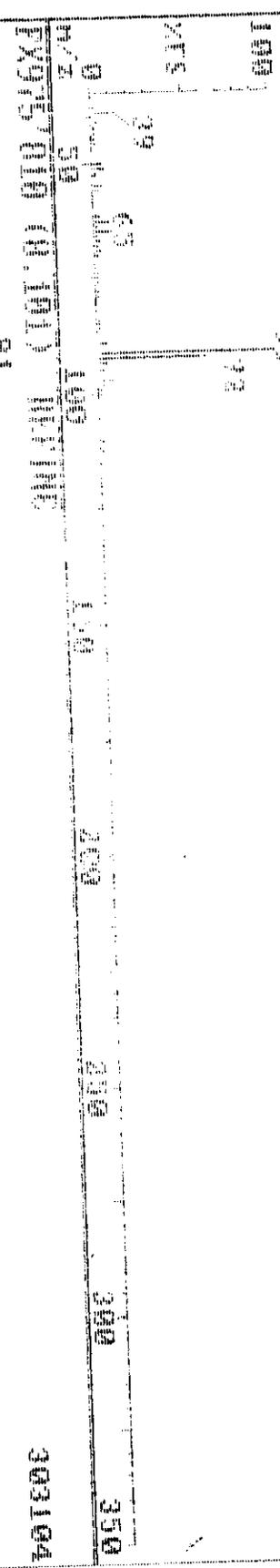
250

300

350

24-Aug-99 09:45 Trompeter Laboratories, Inc. (919) 544-5729  
 Sample: 14021002 Instrument F  
 100 24 25 50 75 100 200 300 350

EX975 000 (0.100) 331776



14-Aug-98 09:15

Triangle Laboratories, Inc.

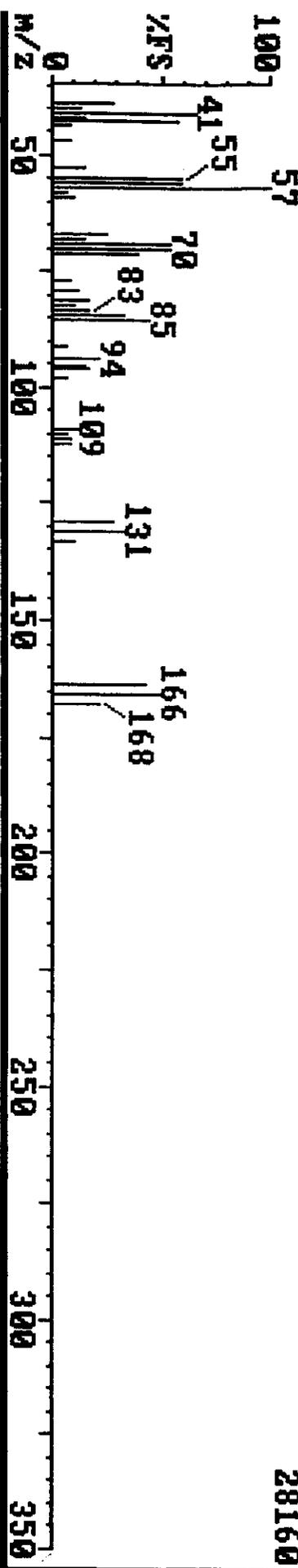
(919) 544-5729

Sample: T-U-2-1-A,B T/TIC 214-27-5A,B TLI#46323

Instrument F

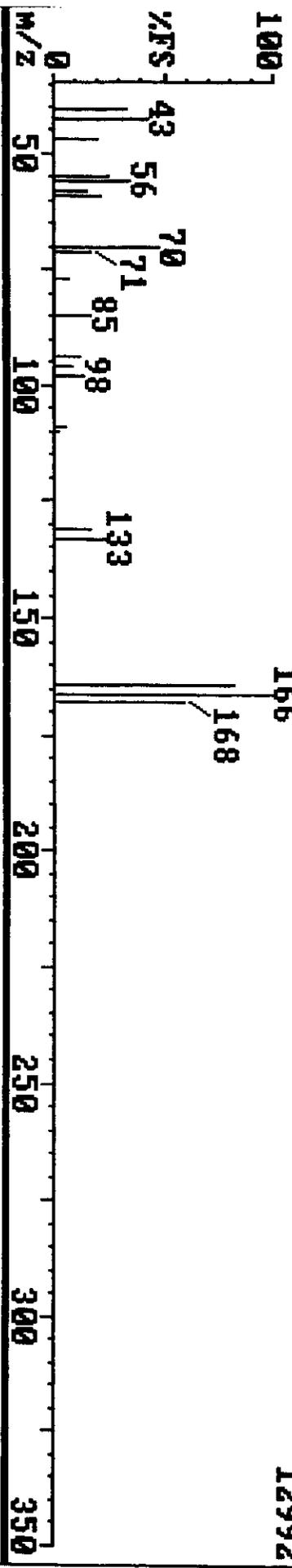
FX975 892 (8.921)

28160



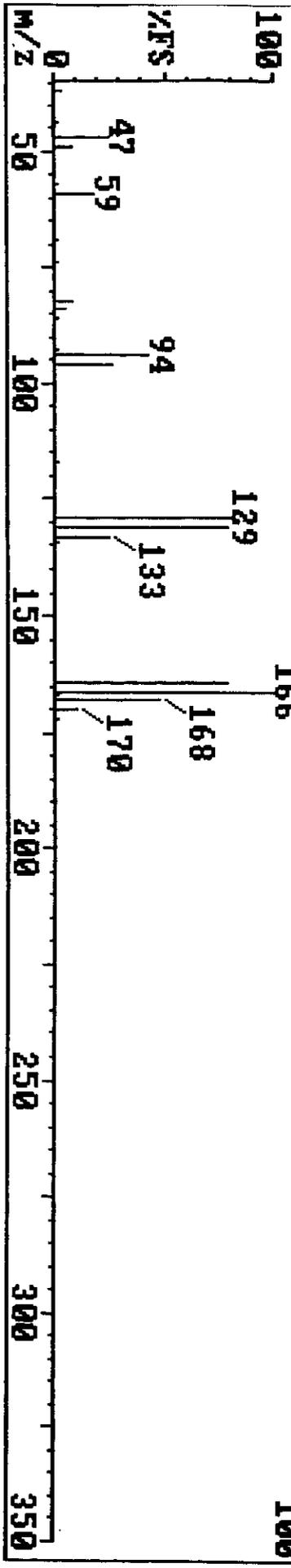
FX975 892 (8.921) REFINE

12992



8260 35 (9.531) Tetrachloroethene

FIND 100





24-Aug-98 09:15

Triangle Laboratories, Inc.

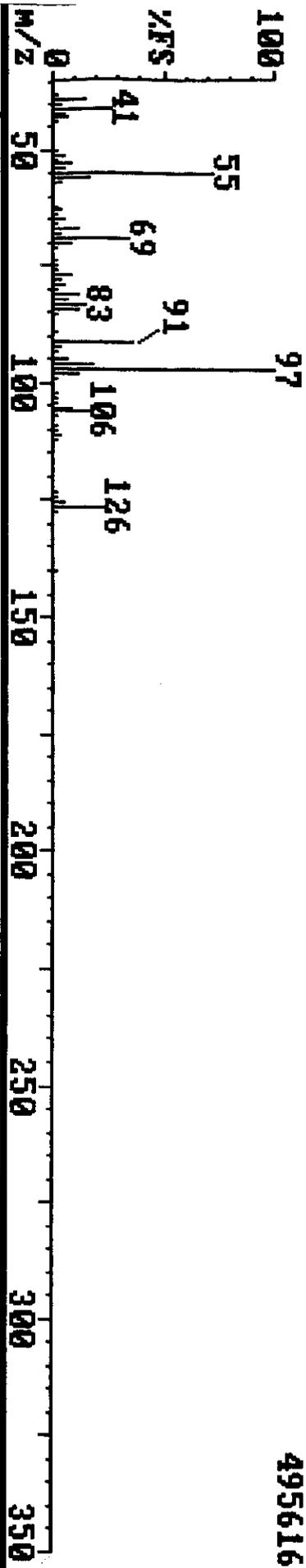
(919) 544-5729

Sample: T-U-2-1-A,B T/TC 214-27-5A,B TL1#46323

Instrument F

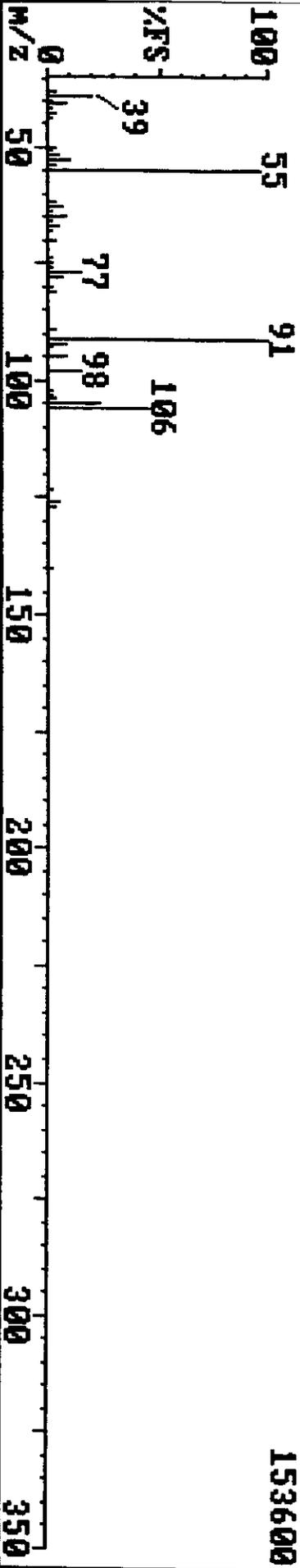
FX975 1093 (10.931)

495616



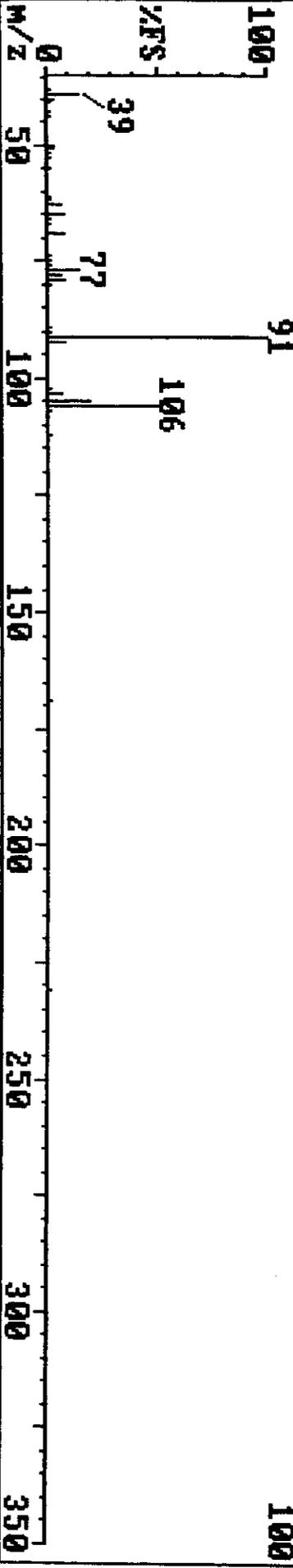
FX975 1093 (10.931) REFINE

153600



8260 42 (11.581) m-/p-Xylene

FIND  
100



24-Aug-98 09:15

Triangle Laboratories, Inc.

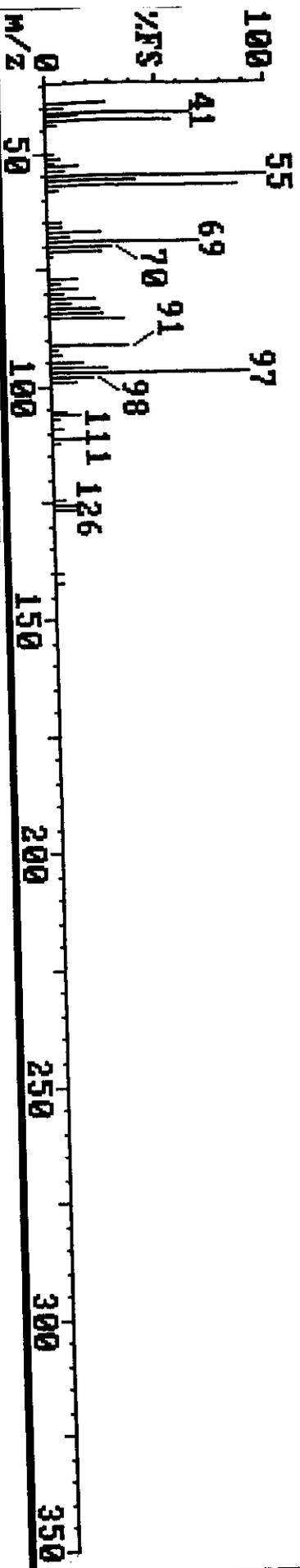
(919) 544-5729

Sample: T-U-2-1-A,B T/TC 214-27-5A,B TL#46323

Instrument F

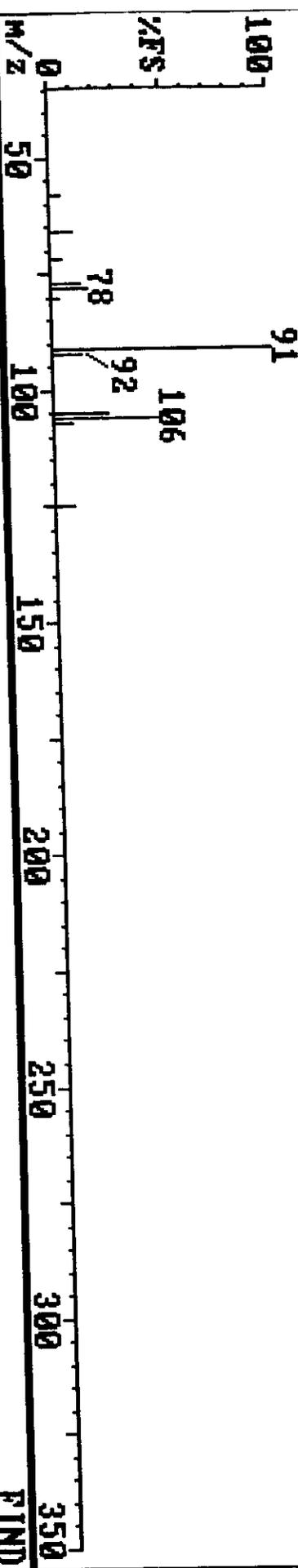
FY975 1164 (11.641)

77824



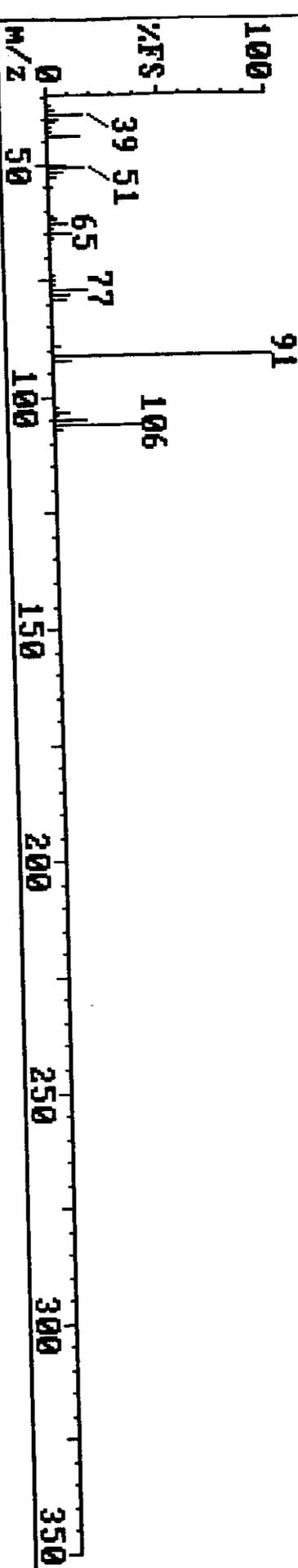
FY975 1164 (11.641) REFINE

20480

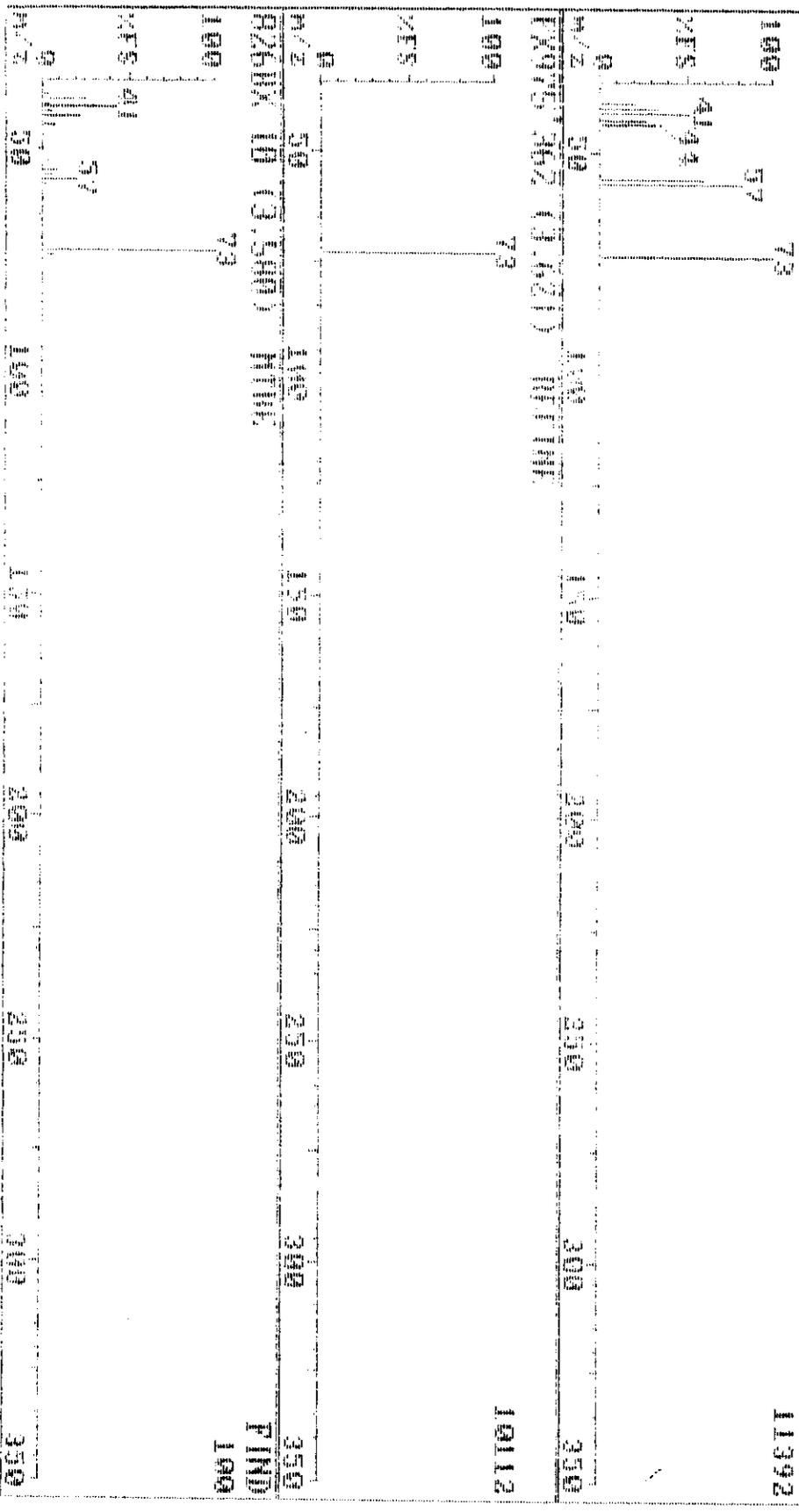


8260 43 (12.321) o-Xylene

FIND 100



41-999-99 000000  
 Sample: T-02-0000  
 1975 362 (3.620)







**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX976

Method 8260 VOST  
Sample ID: T-V-2-2-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-6A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.32		
Chloromethane	0.092		1.09		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.035	J	1.66		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.011	J	2.07		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.093		2.79		0.05
Acetone	0.232		2.87		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride		U		0.001	0.05
Acrylonitrile		U		0.024	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.312		4.74		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.09		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.238		5.54		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: FX976

Method 8260 VOST

Sample ID: T-V-2-2-A,B T/TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-6A,B

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.007	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.247		8.12		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.39		
Tetrachloroethene	0.035	J	8.96		0.05
2-Hexanone		U		0.010	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.069		10.72		0.05
m-/p-Xylene	0.428		10.95		0.10
o-Xylene	0.119		11.68		0.05
Styrene	0.052		11.73		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.81		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 16:49 08/25/1998

Pacific Environmental Services

Project Number: 46323  
Sample File: FX976

Method 8260 VOST  
Sample ID: T-V-2-2-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-6A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.212	5.20	1	85
Toluene-d <sub>8</sub>	0.268	8.03	2	107
4-Bromofluorobenzene	0.316	12.70	2	126

Reviewed by     *PAB*     Date     8/25/98    

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Savar v3.7  
Printed: 16:49 08/25/1998

**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX976

Method 8260 VOST  
Sample ID: T-V-2-2-A,B T/TC

Client Project: R012.001	Date Received: 07/29/98	Response File: ICALF824
TLI ID: 214-27-6A,B	Date Analyzed: 08/24/98	

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.32		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.022	J	3.63		0.25
n-Hexane	0.176	J	3.90		0.25
1,2-Epoxybutane		U		0.029	0.25
Iso-Octane	0.016	J	5.70		0.25
1,4-Difluorobenzene		IS 2	6.09		
Ethyl acrylate		U		0.008	0.25

Reviewed by     PAB     Date     8/25/98    

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Savar v3.7  
Printed: 17:21 08/25/1998



to	nat	FOR	REV	Del	ca	Chem	PL	Flags	RT	QTY	Name
1	100	85	36	81	1430763	lb			5.131	168	1,4-Dioxane
2	110	81	34	7	1553715	lb			0.000	114	1,4-Dioxane
3	99	70	37	2	1507663	lb			10.000	117	1,4-Dioxane
4	97	16	36	1	1531163	lb			15.000	150	1,4-Dioxane
5	88	67	37	1	1118063	lb			0.000	114	1,4-Dioxane
6	100	78	35		1600179	lb			8.131	98	1,4-Dioxane
7	12	64	39	2	1117101	lb			12.200	75	1,4-Dioxane
8	0	0	0	0	0				0.000	33	1,4-Dioxane
9	0	0	0	0	0				0.000	50	1,4-Dioxane
10	0	0	0	0	0				0.000	52	1,4-Dioxane
11	99	27	35	5	1111101	lb			1.000	74	1,4-Dioxane
12	0	0	0	0	0				0.000	64	1,4-Dioxane
13	0	0	0	0	0				0.000	91	1,4-Dioxane
14	0	0	0	0	0				0.000	98	1,4-Dioxane
15	0	0	0	0	0				0.000	140	1,4-Dioxane
16	0	0	0	0	0				0.000	150	1,4-Dioxane
17	80	40	37	1	1111101	lb			2.000	41	1,4-Dioxane
18	0	0	0	0	0				0.000	41	1,4-Dioxane
19	0	0	0	0	0				0.000	42	1,4-Dioxane
20	0	0	0	0	0				0.000	42	1,4-Dioxane
21	0	0	0	0	0				0.000	42	1,4-Dioxane
22	0	0	0	0	0				0.000	42	1,4-Dioxane
23	0	0	0	0	0				0.000	42	1,4-Dioxane
24	0	0	0	0	0				0.000	42	1,4-Dioxane
25	0	0	0	0	0				0.000	42	1,4-Dioxane
26	0	0	0	0	0				0.000	42	1,4-Dioxane
27	0	0	0	0	0				0.000	42	1,4-Dioxane
28	0	0	0	0	0				0.000	42	1,4-Dioxane
29	0	0	0	0	0				0.000	42	1,4-Dioxane
30	0	0	0	0	0				0.000	42	1,4-Dioxane
31	0	0	0	0	0				0.000	42	1,4-Dioxane
32	100	98	39	4	1607000	lb			3.591	78	1,4-Dioxane
33	0	0	0	0	0				0.000	62	1,4-Dioxane
34	0	0	0	0	0				0.000	150	1,4-Dioxane
35	0	0	0	0	0				0.000	60	1,4-Dioxane
36	0	0	0	0	0				0.000	75	1,4-Dioxane
37	0	0	0	0	0				0.000	41	1,4-Dioxane
38	0	0	0	0	0				0.000	33	1,4-Dioxane
39	0	0	0	0	0				0.000	75	1,4-Dioxane
40	0	0	0	0	0				0.000	43	1,4-Dioxane
41	100	91	30	0	2095040	lb			8.131	92	1,4-Dioxane
42	0	0	0	0	0				0.000	75	1,4-Dioxane
43	0	0	0	0	0				0.000	97	1,4-Dioxane
44	0	0	0	0	0				0.000	62	1,4-Dioxane
45	91	47	35	0	209504	lb			8.961	164	1,4-Dioxane
46	0	0	0	0	0				0.000	76	1,4-Dioxane
47	0	0	0	0	0				0.000	43	1,4-Dioxane
48	0	0	0	0	0				0.000	129	1,4-Dioxane
49	0	0	0	0	0				0.000	107	1,4-Dioxane
50	0	0	0	0	0				0.000	117	1,4-Dioxane

196794 - (M) PAB

117504 - (N) PAB

(P) PAB

(P) PAB

(P) PAB

Data Review: PAB  
Date: 8/24/98



Line	Rate								
1	100	100	100	100	100	100	100	100	100
2	100	100	100	100	100	100	100	100	100
3	100	100	100	100	100	100	100	100	100
4	100	100	100	100	100	100	100	100	100
5	100	100	100	100	100	100	100	100	100
6	100	100	100	100	100	100	100	100	100
7	100	100	100	100	100	100	100	100	100
8	100	100	100	100	100	100	100	100	100
9	100	100	100	100	100	100	100	100	100
10	100	100	100	100	100	100	100	100	100
11	100	100	100	100	100	100	100	100	100
12	100	100	100	100	100	100	100	100	100
13	100	100	100	100	100	100	100	100	100
14	100	100	100	100	100	100	100	100	100

SP PAR

SP PAR

SP PAR

24-Aug-98 10:02

Triangle Laboratories, Inc.

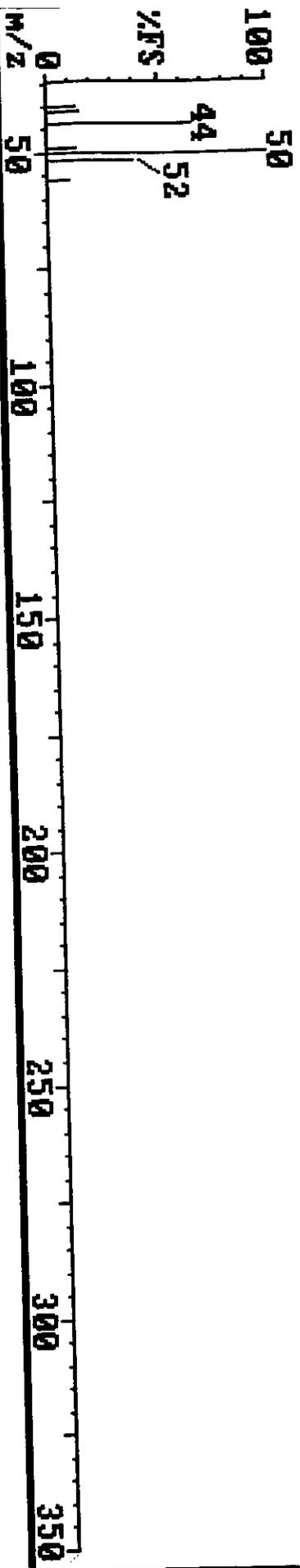
(919) 544-5729

Instrument F

Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL1#46323

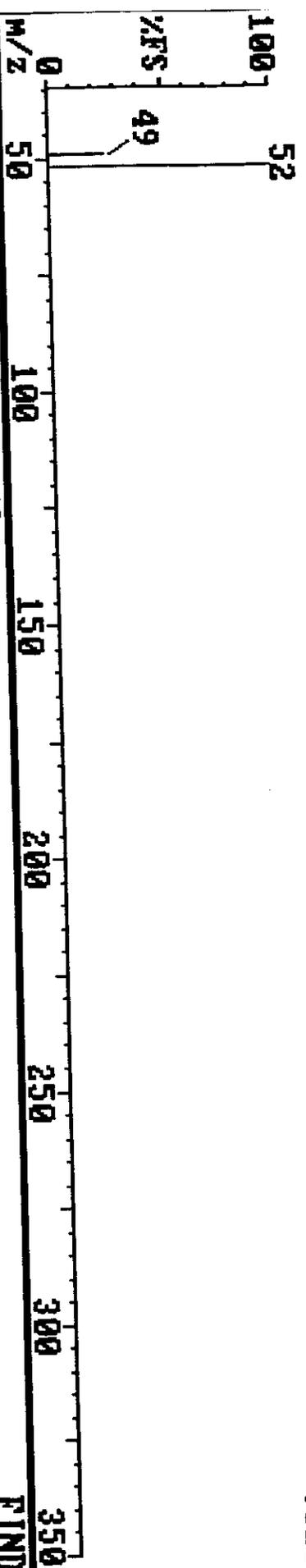
**FY976 109 (1.090)**

27136



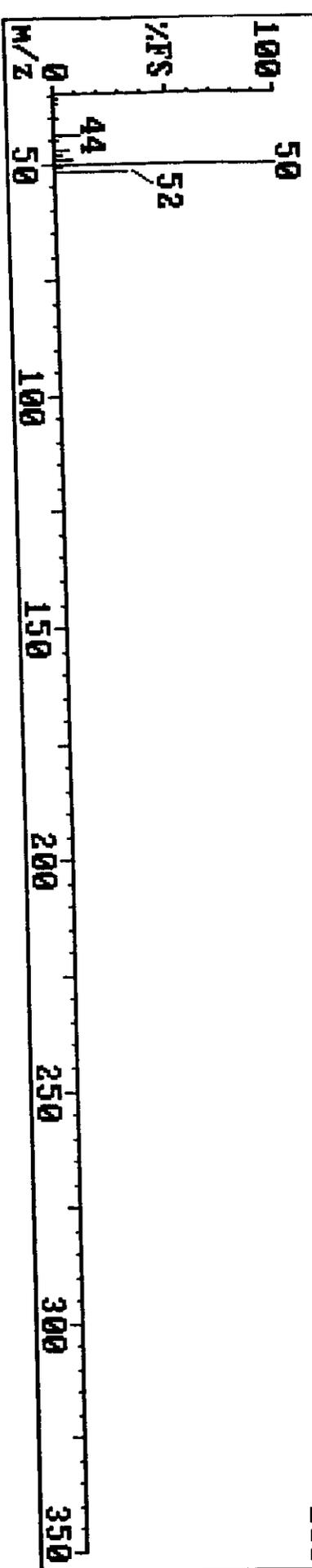
**FY976 109 (1.091) REFINE**

7616



**8260 9 (1.230) Chloromethane**

FIND 100



24-44-92 0002 11264-5720

24-44-92 0002 11264-5720

24-44-92 0002 11264-5720

24-44-92 0002 11264-5720

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24-Aug-98 10:02

Triangle Laboratories, Inc.

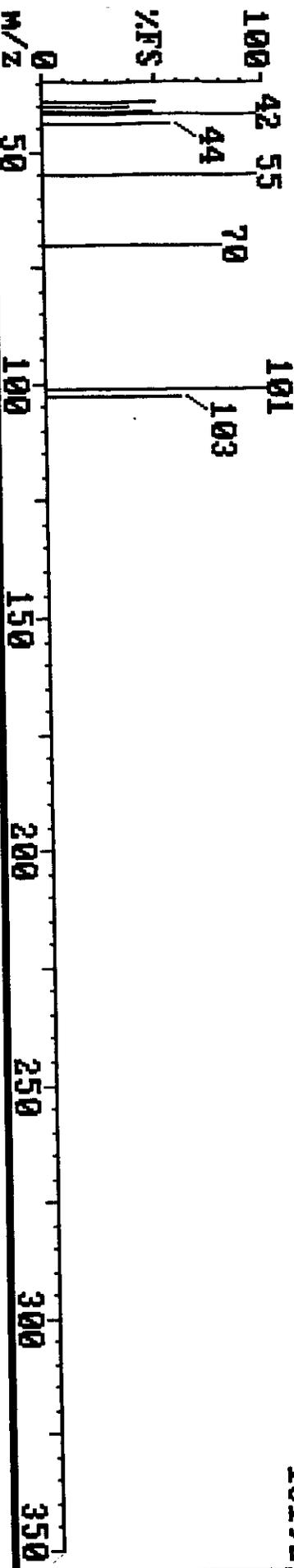
(919) 544-5729

Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL1#46323

Instrument F

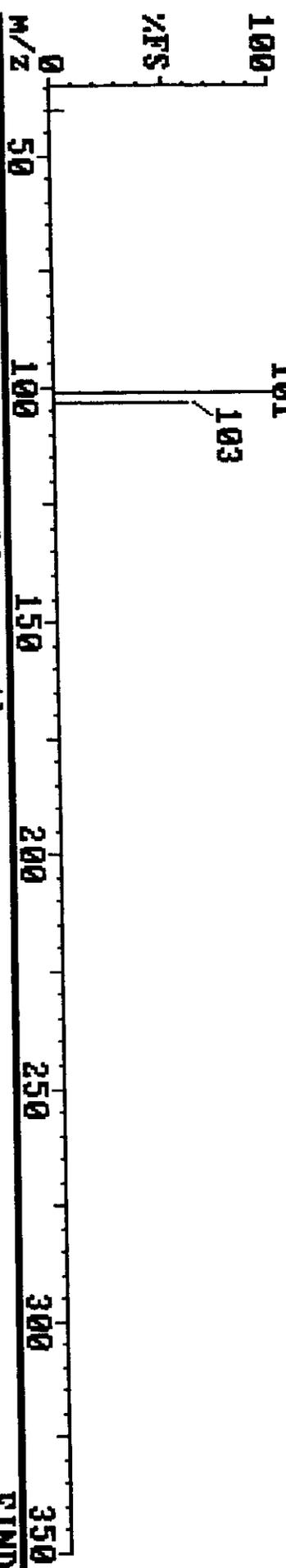
FX976 207 (2.070)

16192



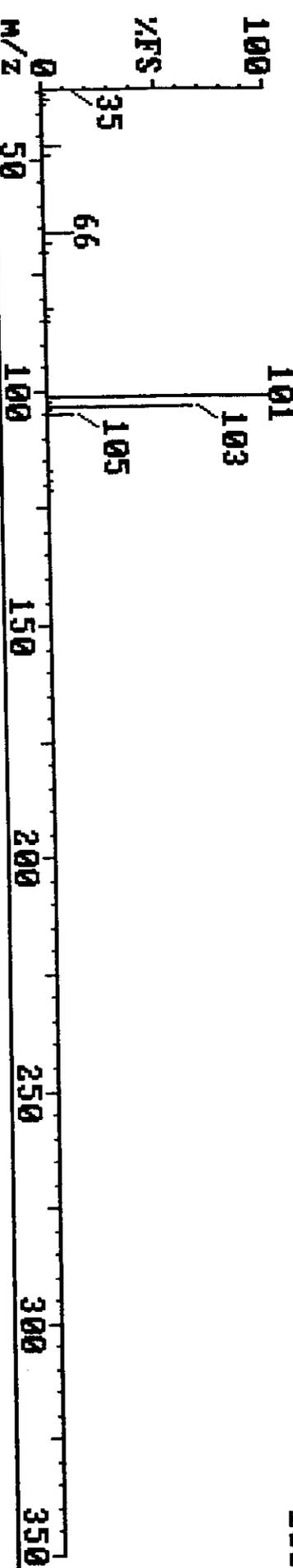
FX976 207 (2.071) REFINE

16192



8260 13 (2.300) Trichlorofluoromethane

FIND 100





24-Aug-98 10:12

Sample: T-02-2-00

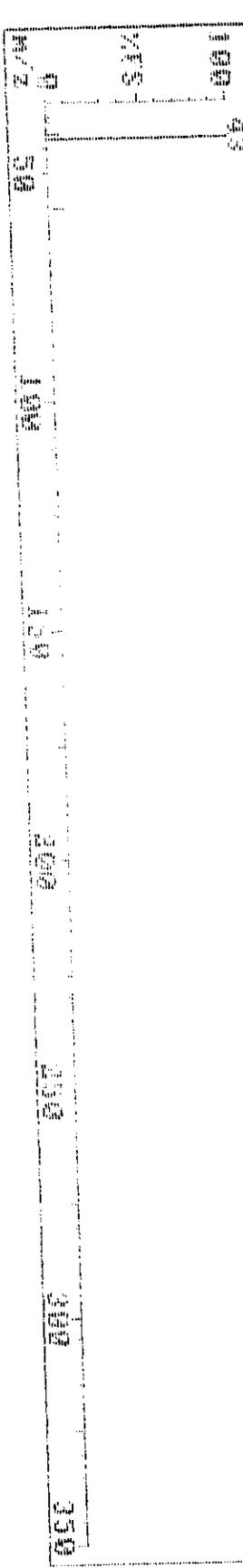
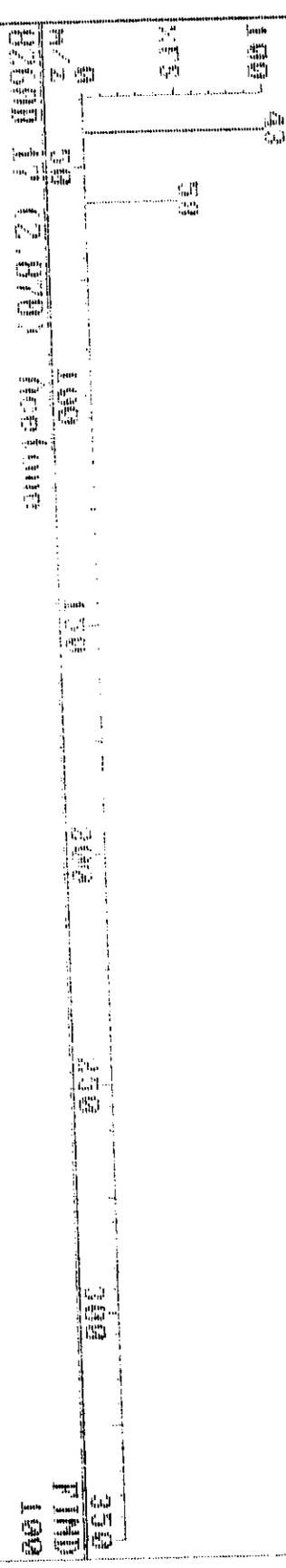
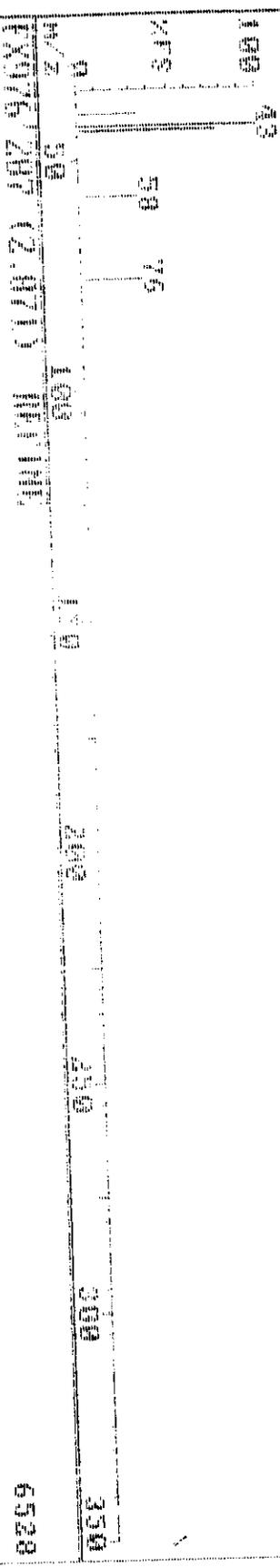
170 200 250 300

Instrument 1

090 54-570

10976 207 (2.870)

8576



21-Aug-90 10:02

TRIPLE DEVIATIONS, INC.

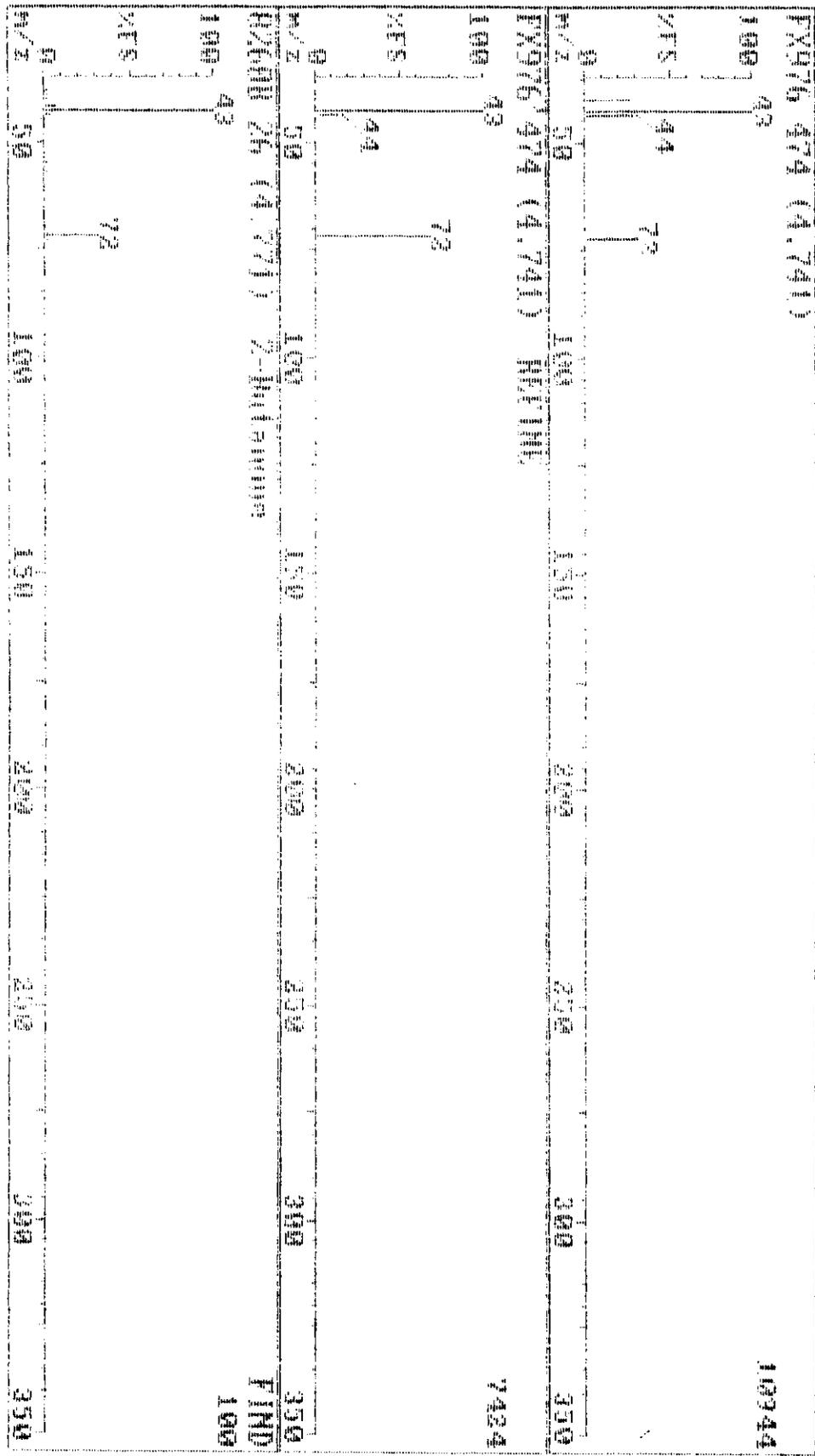
(919) 544-5729

Sample: 14-2-2-A-B TR 14-27-60-B THH40323

Instrument: F

FWHM 474 (4.74)

10344











21-7-1988 00:00  
 Sample 1 U-27-00  
 1000 1000 1000  
 Instrument F  
 1064960

M/Z	99	69	77	91	106	146	150	200	250	300	350
M/Z	99	69	77	91	106	146	150	200	250	300	350
1000											
M/Z	99	69	77	91	106	146	150	200	250	300	350
1000											
M/Z	99	69	77	91	106	146	150	200	250	300	350
1000											

M/Z	99	69	77	91	106	146	150	200	250	300	350
M/Z	99	69	77	91	106	146	150	200	250	300	350
1000											
M/Z	99	69	77	91	106	146	150	200	250	300	350
1000											
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1000											



24-Aug-98 10:02

Triangle Laboratories, Inc.

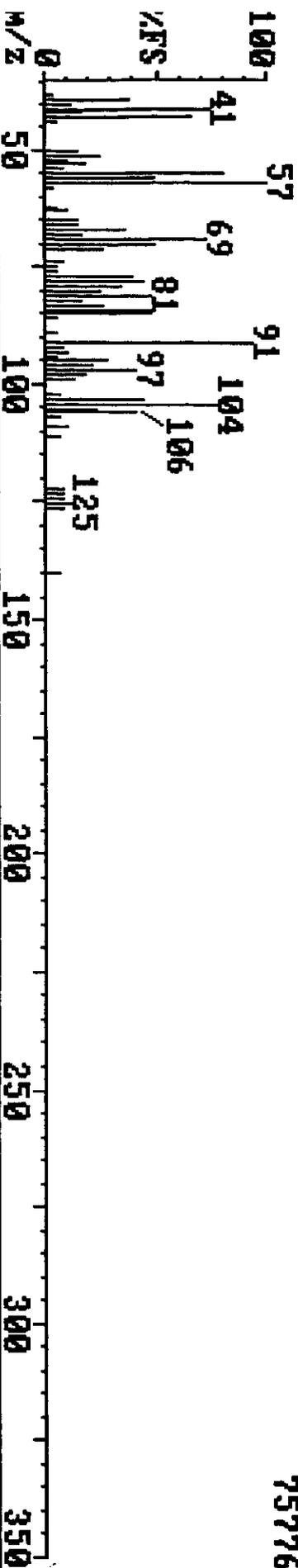
(919) 544-5729

Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL#46323

Instrument F

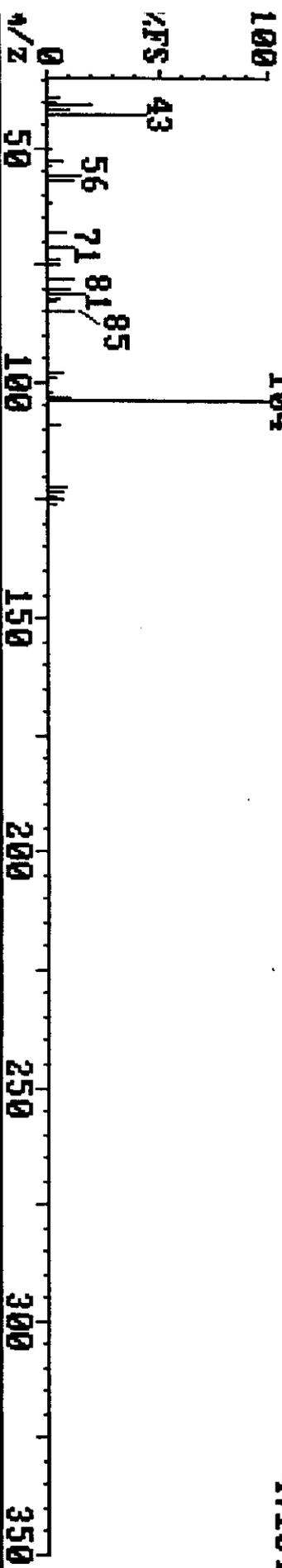
FX976 1173 (11.731)

75776



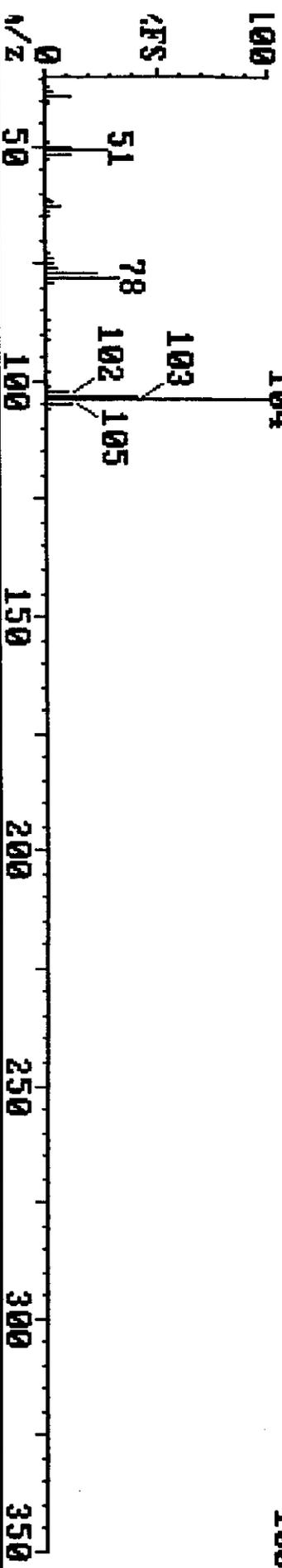
FX976 1173 (11.731) REFINE

47104



3260 44 (12.371) Styrene

FIND 100





NO.	DESCRIPTION	AMOUNT	DATE	INITIALS
1	...	...	...	...
2	...	...	...	...
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97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

24-Aug-98 10:02

Triangle Laboratories, Inc.

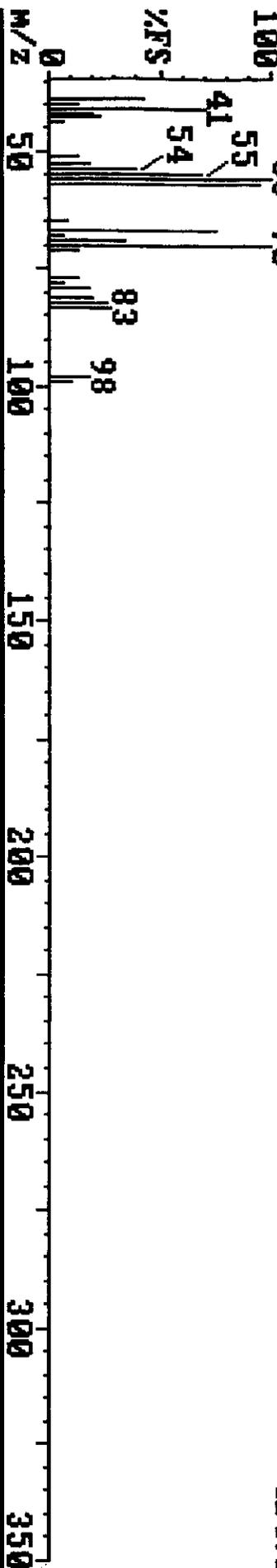
(919) 544-5729

Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL1#46323

Instrument F

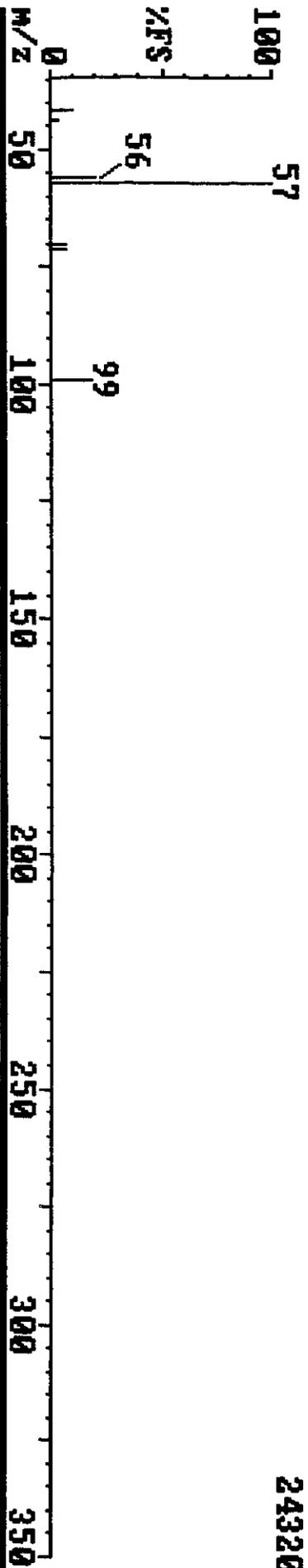
**FY976 570 (5.701)**

41472



**FY976 570 (5.701) REFINE**

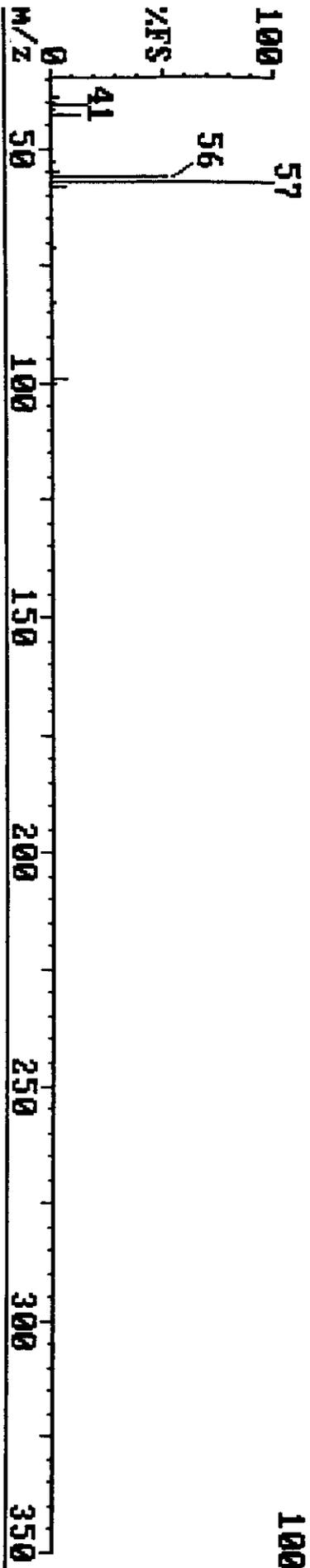
24320



**MASTER 32 (6.110) Isooctane**

FIND

100



**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX977

Method 8260 VOST  
Sample ID: T-V-2-3-A,B T/TC

Client Project: R012.001	Date Received: 07/29/98	Response File: ICALF821
TLI ID: 214-27-7A,B	Date Analyzed: 08/24/98	

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane	0.042	J	1.08		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.035	J	2.05		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.026	J	2.77		0.05
Acetone	0.137		2.87		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.081		3.26		0.05
Acrylonitrile		U		0.021	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.161		4.73		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.06		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.156		5.51		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: FX977**

**Method 8260 VOST**  
**Sample ID: T-V-2-3-A,B T/TC**

**Client Project: R012.001**  
**TLI ID: 214-27-7A,B**

**Date Received: 07/29/98**

**Response File: ICALF821**

**Date Analyzed : 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.218		8.08		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	10.33		
Tetrachloroethene	0.035	J	8.92		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.050		10.66		0.05
m-/p-Xylene	0.255		10.89		0.10
o-Xylene	0.088		11.62		0.05
Styrene	0.038	J	11.68		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.70		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 16:49 08/25/1998

Pacific Environmental Services

Project Number: 46323  
Sample File: FX977

Method 8260 VOST  
Sample ID: T-V-2-3-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-7A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed: 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.208	5.17	1	83
Toluene-d <sub>8</sub>	0.261	7.99	2	104
4-Bromofluorobenzene	0.297	12.64	2	119

Reviewed by

*PAB*

Date

*8/25/98*

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
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Savar v3.7  
Printed: 16:49 08/25/1998

Pacific Environmental Services

Project Number: 46323

Sample File: FX977

Method 8260 VOST

Sample ID: T-V-2-3-A,B T/TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALF824

TLI ID: 214-27-7A,B

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.039	J	3.60		0.25
n-Hexane	0.145	J	3.88		0.25
1,2-Epoxybutane		U		0.025	0.25
Iso-Octane	0.019	J	5.66		0.25
1,4-Difluorobenzene		IS 2	6.06		
Ethyl acrylate		U		0.007	0.25

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:21 08/25/1998

290

87



NO	BAI	FOR	REV	DATE	QUAN	UNIT	PRICE	AMOUNT	DESCRIPTION
1	100	99	97	83	324011	lb	0.000	0.000	1,1,1-Trichloroethane
2	100	99	98	84	325051	lb	0.000	0.000	1,1,1-Trichloroethane
3	100	99	99	85	325111	lb	0.000	0.000	1,1,1-Trichloroethane
4	84	21	83	84	347050	lb	0.000	0.000	1,1,1-Trichloroethane
5	100	99	99	86	325052	lb	0.000	0.000	1,1,1-Trichloroethane
6	100	83	75	81	427000	lb	0.000	0.000	1,1,1-Trichloroethane
7	99	99	99	87	325112	lb	0.000	0.000	1,1,1-Trichloroethane
8	0	0	0	0			0.000	0.000	
9	0	0	0	0			0.000	0.000	
10	0	0	0	0			0.000	0.000	
11	0	0	0	0			0.000	0.000	
12	0	0	0	0			0.000	0.000	
13	0	0	0	0			0.000	0.000	
14	0	0	0	0			0.000	0.000	
15	0	0	0	0			0.000	0.000	
16	0	0	0	0			0.000	0.000	
17	0	0	0	0			0.000	0.000	
18	0	0	0	0			0.000	0.000	
19	0	0	0	0			0.000	0.000	
20	0	0	0	0			0.000	0.000	
21	0	0	0	0			0.000	0.000	
22	0	0	0	0			0.000	0.000	
23	0	0	0	0			0.000	0.000	
24	02	99	99	87	325113	lb	0.000	0.000	1,1,1-Trichloroethane
25	0	0	0	0			0.000	0.000	
26	0	0	0	0			0.000	0.000	
27	0	0	0	0			0.000	0.000	
28	0	0	0	0			0.000	0.000	
29	0	0	0	0			0.000	0.000	
30	0	0	0	0			0.000	0.000	
31	0	0	0	0			0.000	0.000	
32	100	99	99	88	347051	lb	0.000	0.000	1,1,1-Trichloroethane
33	0	0	0	0			0.000	0.000	
34	0	0	0	0			0.000	0.000	
35	0	0	0	0			0.000	0.000	
36	0	0	0	0			0.000	0.000	
37	0	0	0	0			0.000	0.000	
38	0	0	0	0			0.000	0.000	
39	0	0	0	0			0.000	0.000	
40	0	0	0	0			0.000	0.000	
41	100	99	99	89	347052	lb	0.000	0.000	1,1,1-Trichloroethane
42	0	0	0	0			0.000	0.000	
43	0	0	0	0			0.000	0.000	
44	0	0	0	0			0.000	0.000	
45	99	99	99	90	347053	lb	0.000	0.000	1,1,1-Trichloroethane
46	0	0	0	0			0.000	0.000	
47	0	0	0	0			0.000	0.000	
48	0	0	0	0			0.000	0.000	
49	0	0	0	0			0.000	0.000	
50	0	0	0	0			0.000	0.000	

102440 - (M) PAB → 1.08

128512 - (M) PAB → 2.05

336352 - (M) PAB → 326

Keep PAB

(M) PAB

(M) PAB

(M) PAB

Data Review: PAB  
Date: 8/24/98





24-Aug-98 10:49

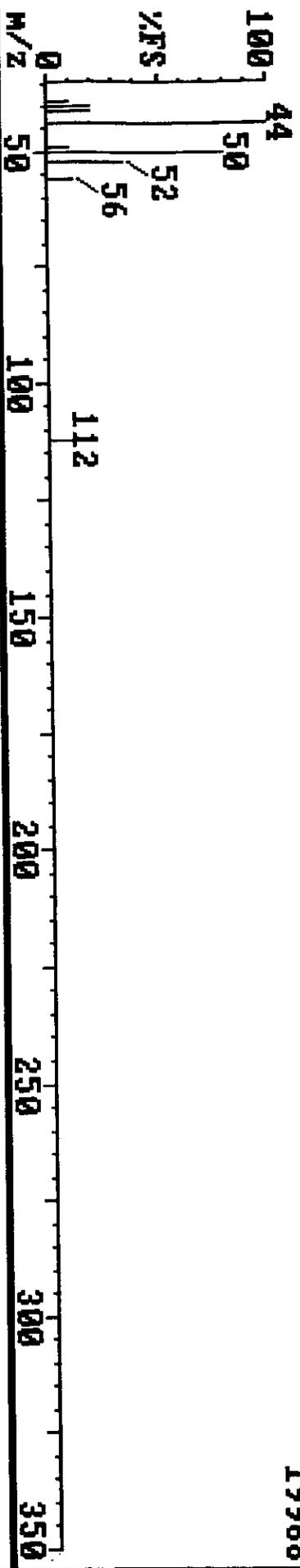
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL#46323

Instrument F

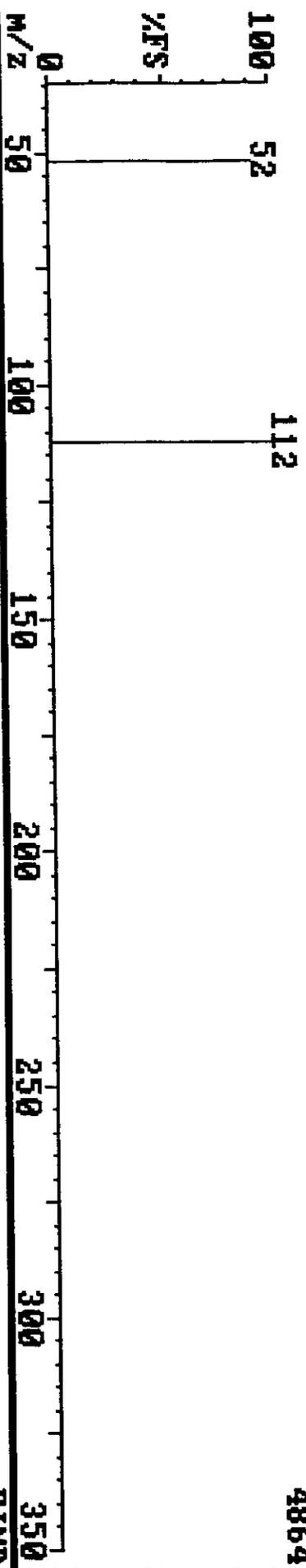
**FX977 108 (1.080)**

19968



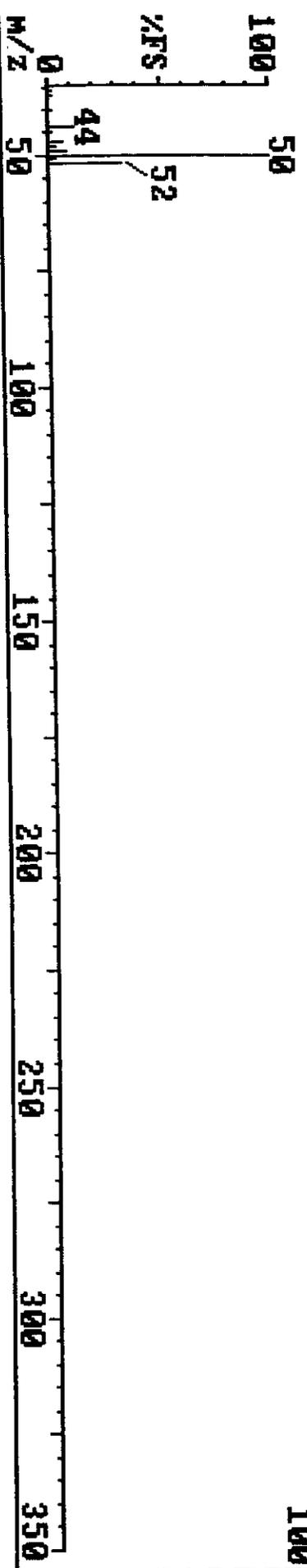
**FX977 108 (1.081) REFINE**

4864



**8260 9 (1.230) Chloromethane**

**FIND**  
100



24-Aug-98 10:49

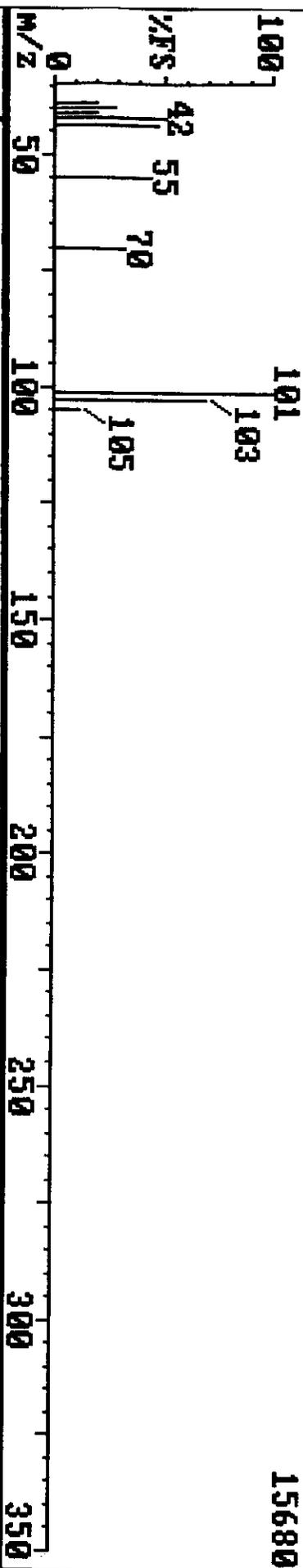
Triangle Laboratories, Inc.

(919) 544-5729

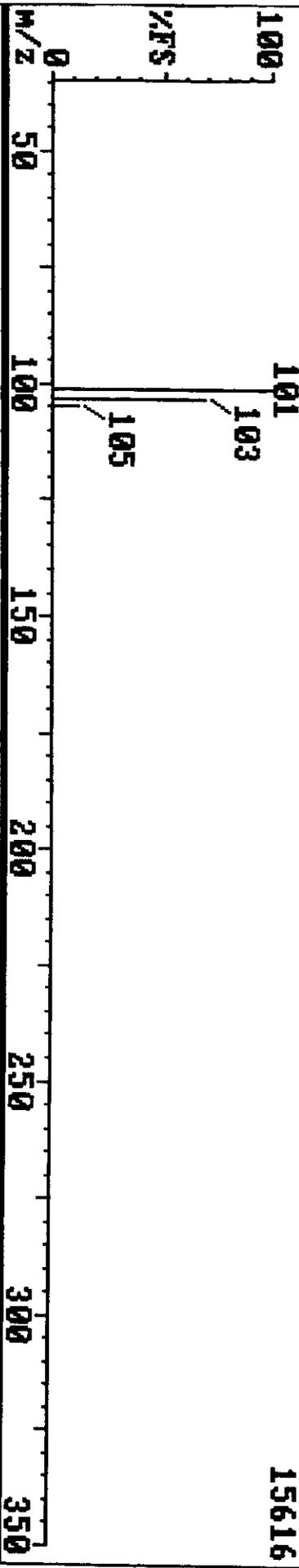
Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL#46323

Instrument F

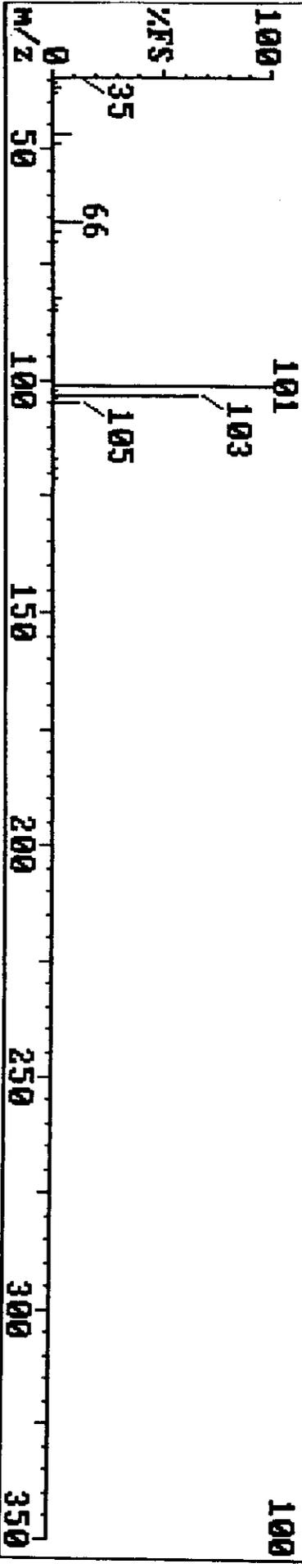
FX977 205 (2.050)



FX977 205 (2.051) REFINE



MASTER 15 (2.330) Trichlorofluoromethane



FIND  
100

15616

15680



24-Aug-98 10:49

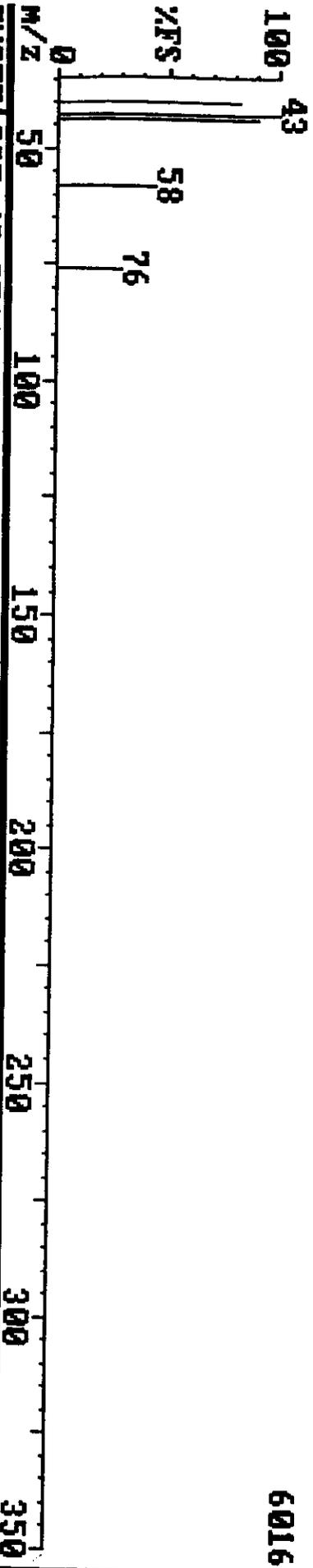
Triangle Laboratories, Inc.

(919) 544-5729

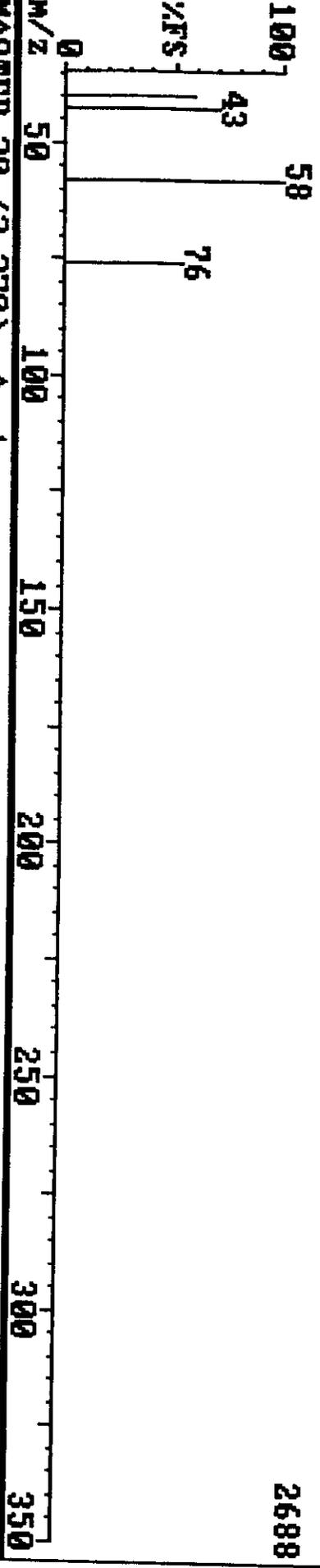
Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL1#46323

Instrument F

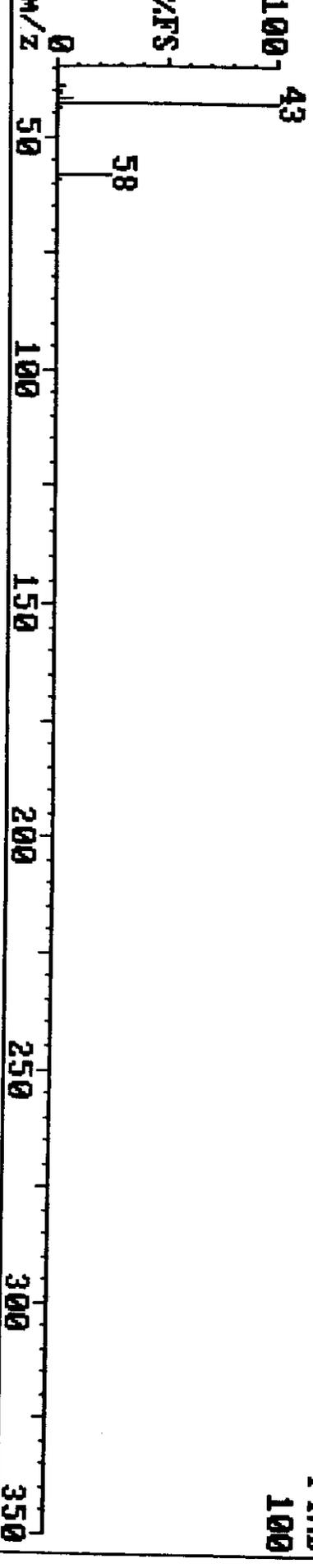
FX977 285 (2.850)



FX977' 285 (2.851) REFINE



MASTER 20 (3.370) Acetone



FIND

24-Aug-98 10:49

Triangle Laboratories, Inc.

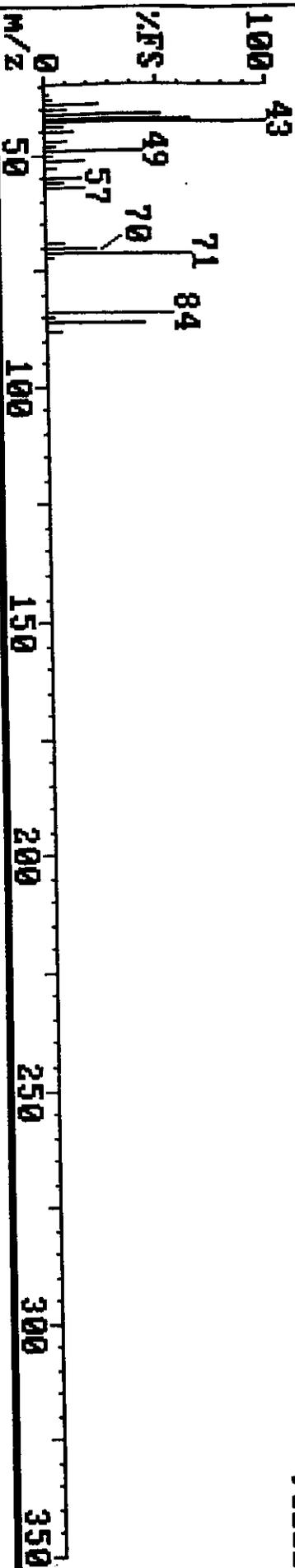
(919) 544-5729

Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL1#46323

Instrument F

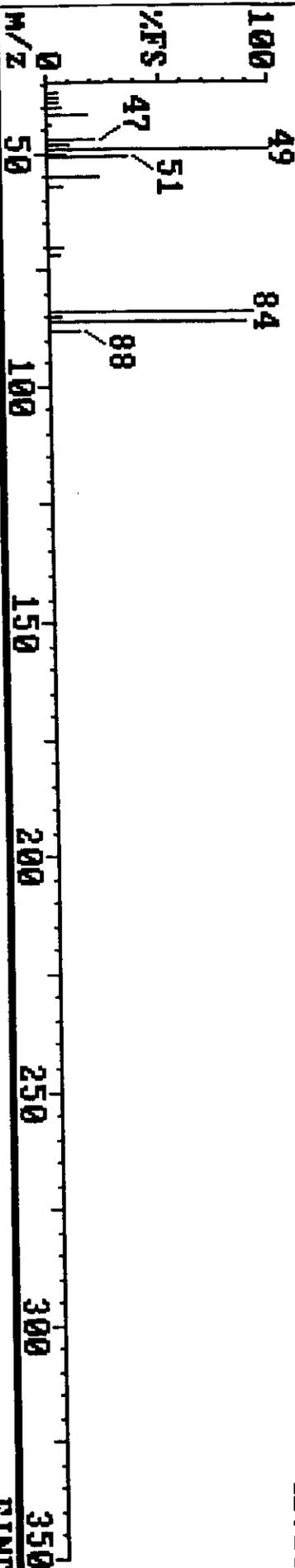
FY977 326 (3.260)

90112



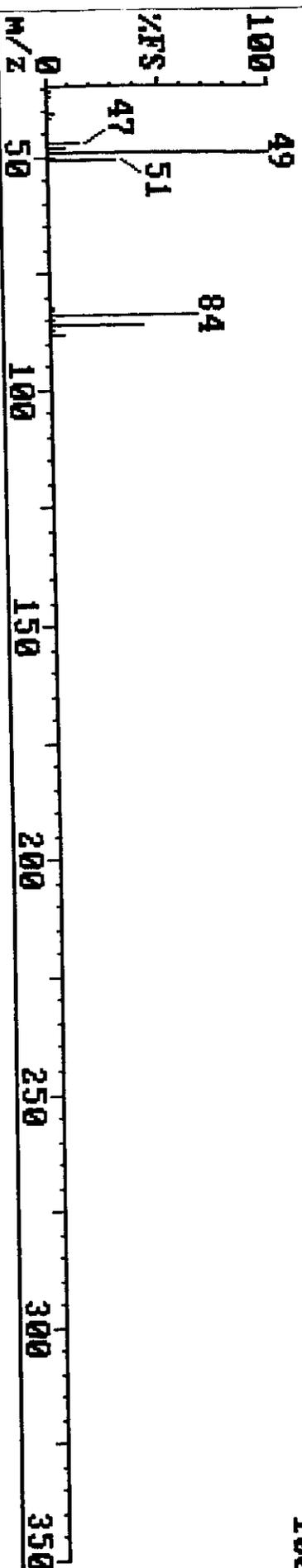
FY977 326 (3.261) REFINE

41728



8260 15 (3.550) Methylene chloride

FIND 100



24-Aug-99 08:49

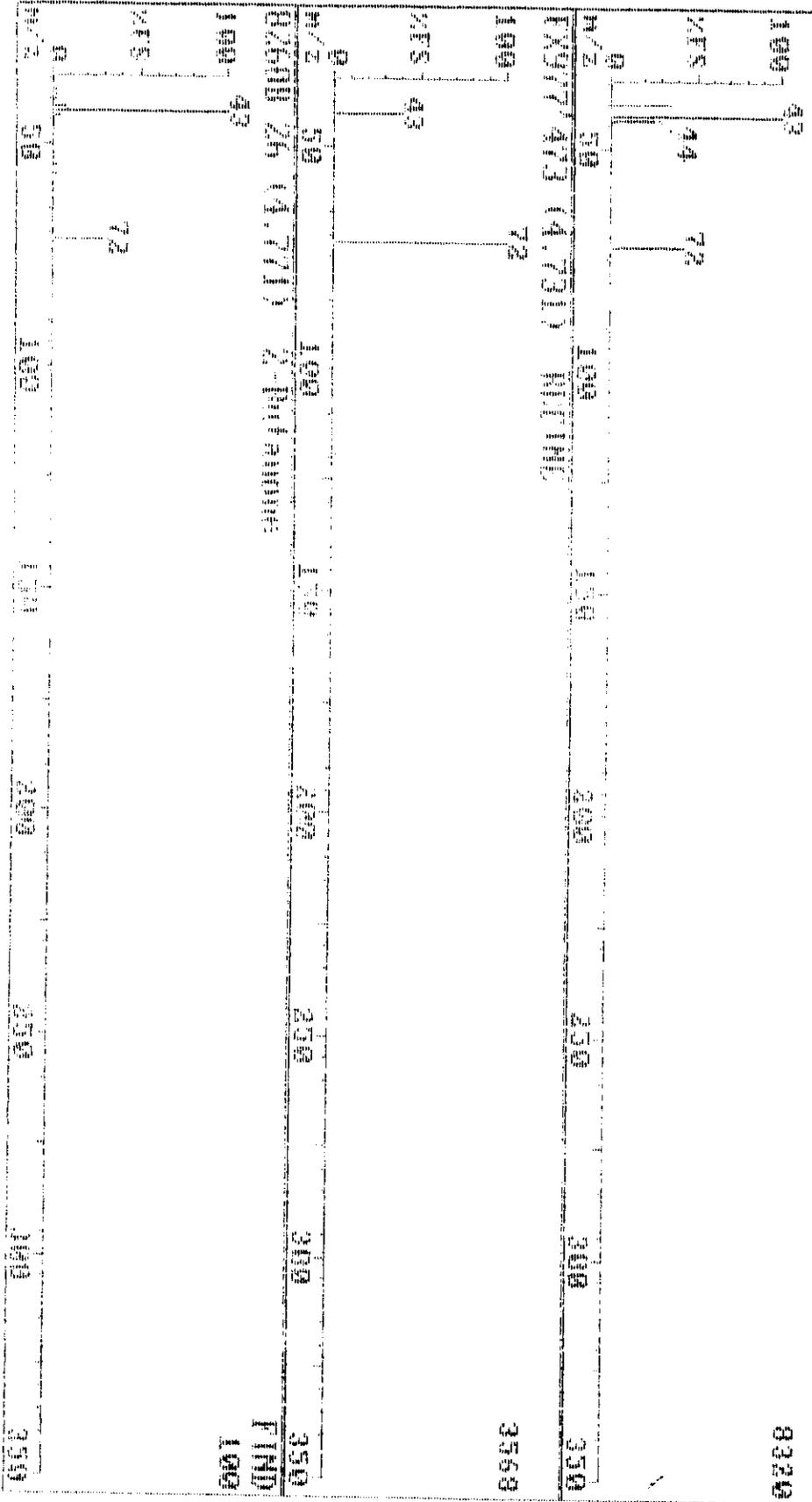
Flint Hills Laboratories, Inc.

0010 04-0229

Sample: T-U 23-000 170 11/27/01 11/14/02

Instrument F

EX97 473 (4.73)



8320

3569

350

350

FIND

100

350

24 Aug 98 10:44      Training Procedures, Inc.      (919) 544-5729      Instrument T

Sample: T-12000      T-12000      T-12000      T-12000

199751 (5.50)      79      389120

100      79      100      150      200      250      300      350

79      79      79      79      79      79      79      79

100      100      100      100      100      100      100      100

100      100      100      100      100      100      100      100

100      100      100      100      100      100      100      100

100      100      100      100      100      100      100      100

100      100      100      100      100      100      100      100

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14-Aug-98 10:49

Triangle Laboratories, Inc.

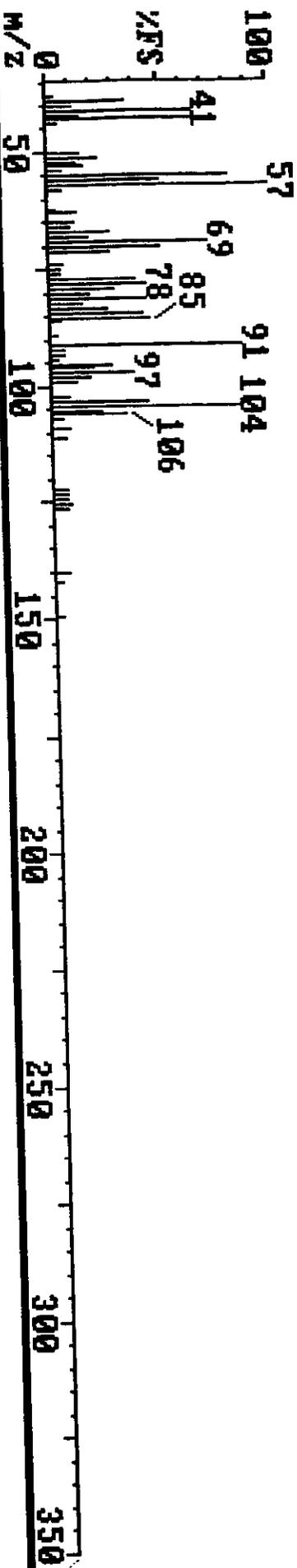
(919) 544-5729

Instrument F

Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL1#46323

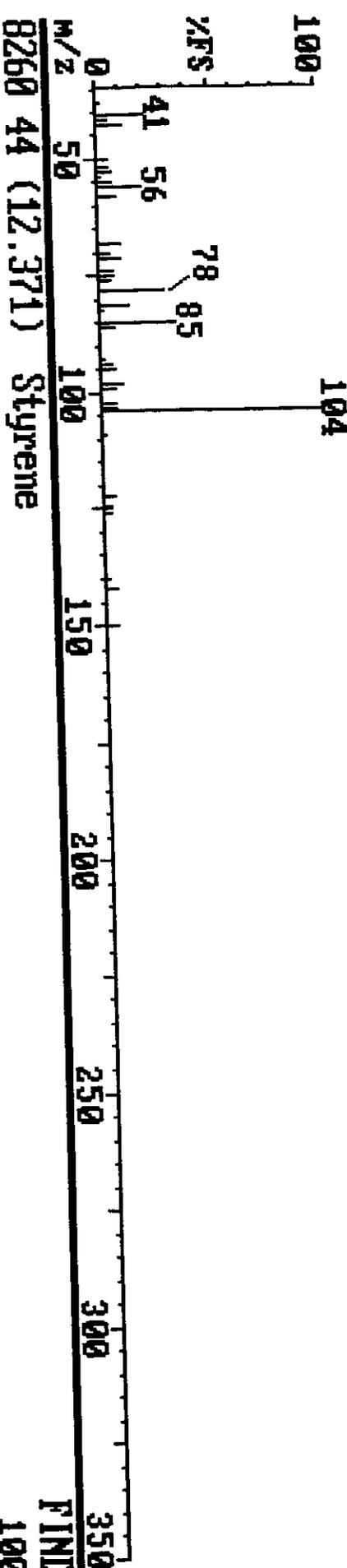
59136

FX977 1168 (11.681)



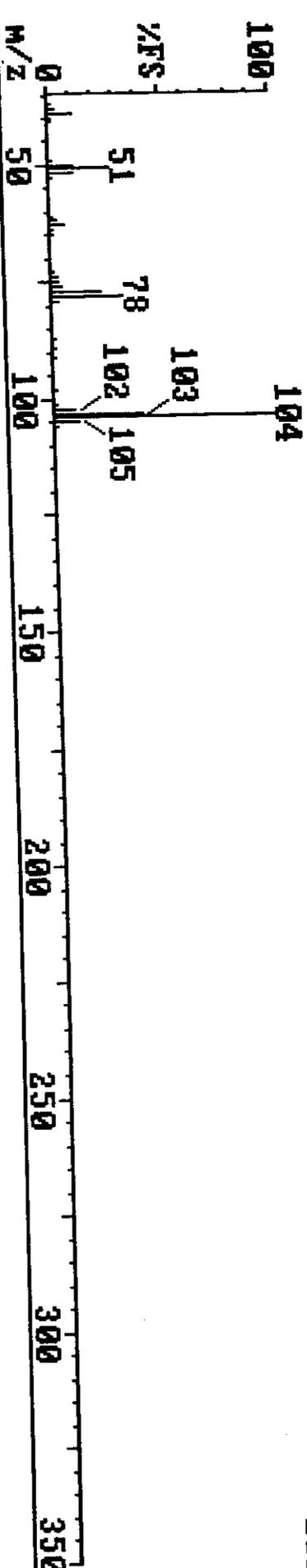
40704

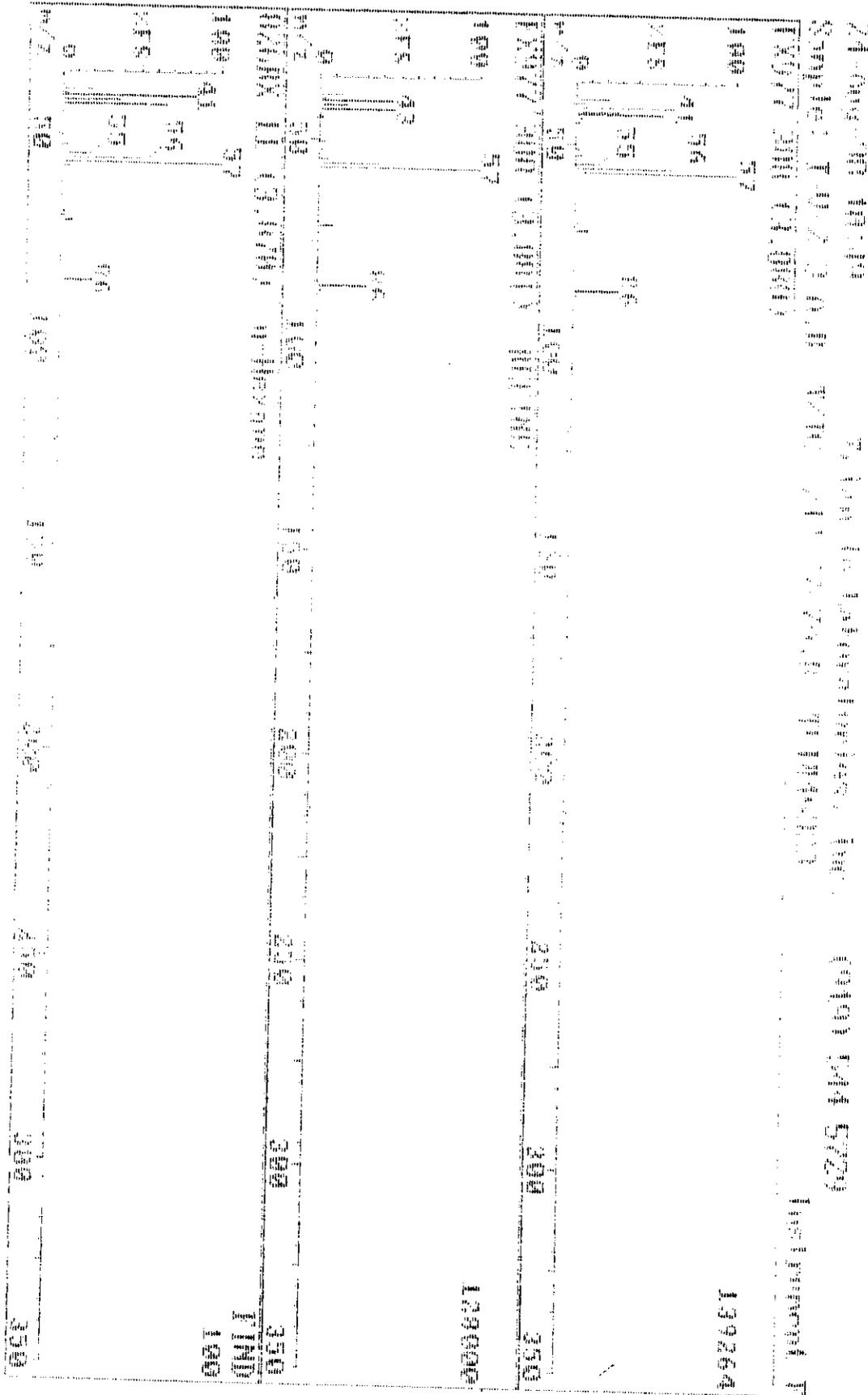
FX977 1168 (11.681) REFINE



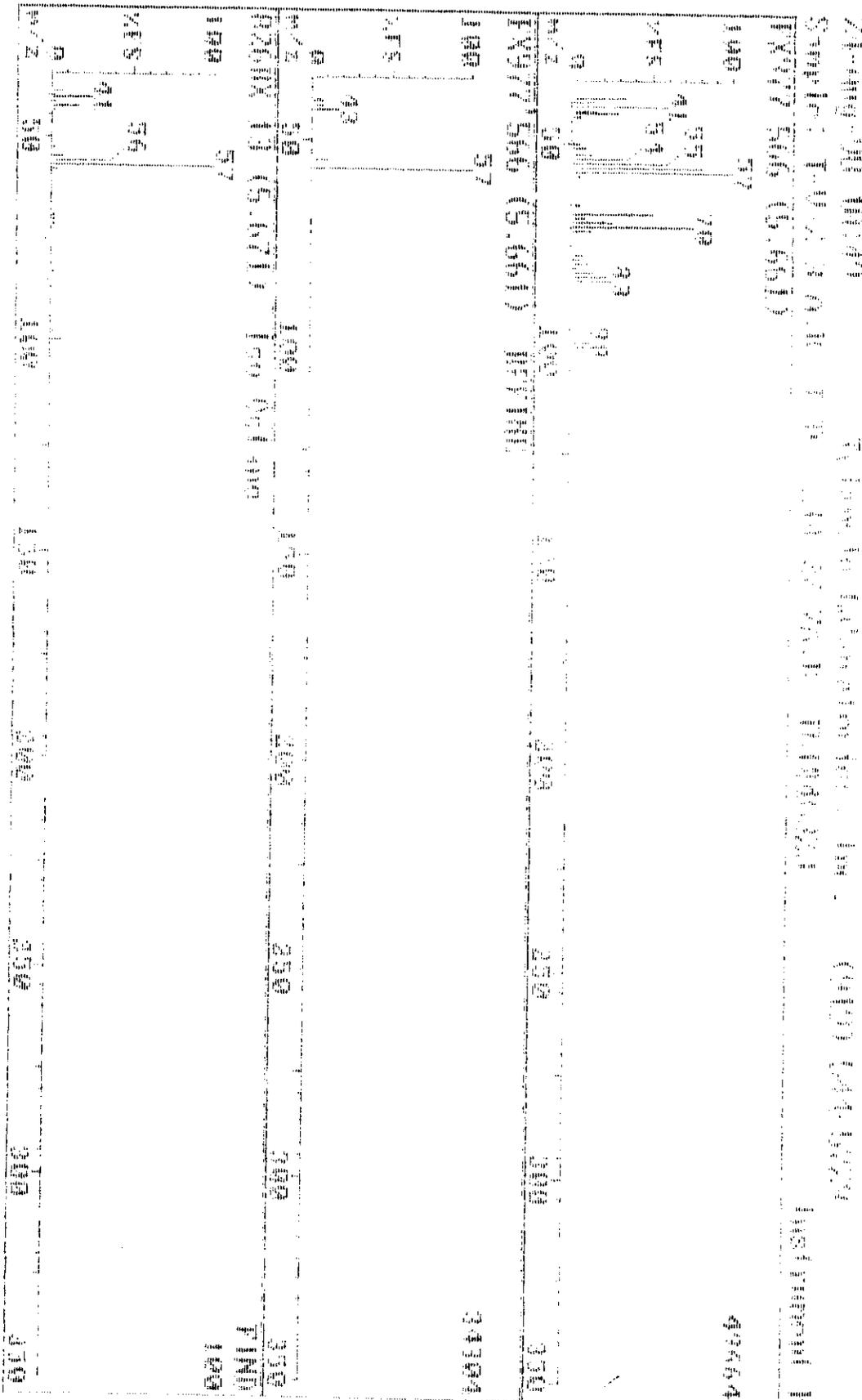
FIND 100

8260 44 (12.371) Styrene









**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX978

Method 8260 VOST  
Sample ID: T-V-2-4-A,B T/TC

Client Project: R012.001  
FLI ID: 214-27-8A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		0.05
Chloromethane	0.040	J	1.09		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.009	J	2.07		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U			0.05
Carbon disulfide	0.044	J	2.78		0.05
Acetone	0.296		2.86		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.064		3.27		0.05
Acrylonitrile		U		0.021	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.342		4.73		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		0.05
Carbon tetrachloride		U		0.001	0.05
Benzene	0.108		5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

**Project Number: 46323**

**Sample File: FX978**

**Method 8260 VOST**

**Sample ID: T-V-2-4-A,B T/TC**

**Client Project: R012.001**

**Date Received: 07/29/98**

**Response File: ICALF821**

**TLI ID: 214-27-8A,B**

**Date Analyzed: 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.144		8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	10.35		
Tetrachloroethene	0.031	J	8.91		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.027	J	10.67		0.05
m-/p-Xylene	0.149		10.91		0.10
o-Xylene	0.042	J	11.63		0.05
Styrene	0.017	J	11.70		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.72		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 16:49 08/25/1998

Pacific Environmental Services

Project Number: 46323  
Sample File: FX978

Method 8260 VOST  
Sample ID: T-V-2-4-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-8A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RI	IS Ref	%REC
Dibromofluoromethane	0.208	5.18	1	83
Toluene-d <sub>8</sub>	0.259	8.00	2	104
4-Bromofluorobenzene	0.295	12.65	2	118

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 16:49 08/25/1998

Pacific Environmental Services

Project Number: 46323  
Sample File: FX978

Method 8260 VOST  
Sample ID: T-V-2-4-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-8A,B

Date Received: 07/29/98

Response File: ICALF824

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.036	J	3.61		0.25
n-Hexane	0.083	J	3.88		0.25
1,2-Epoxybutane		U		0.025	0.25
Iso-Octane	0.021	J	5.68		0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.007	0.25

Reviewed by

*Pab*

Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

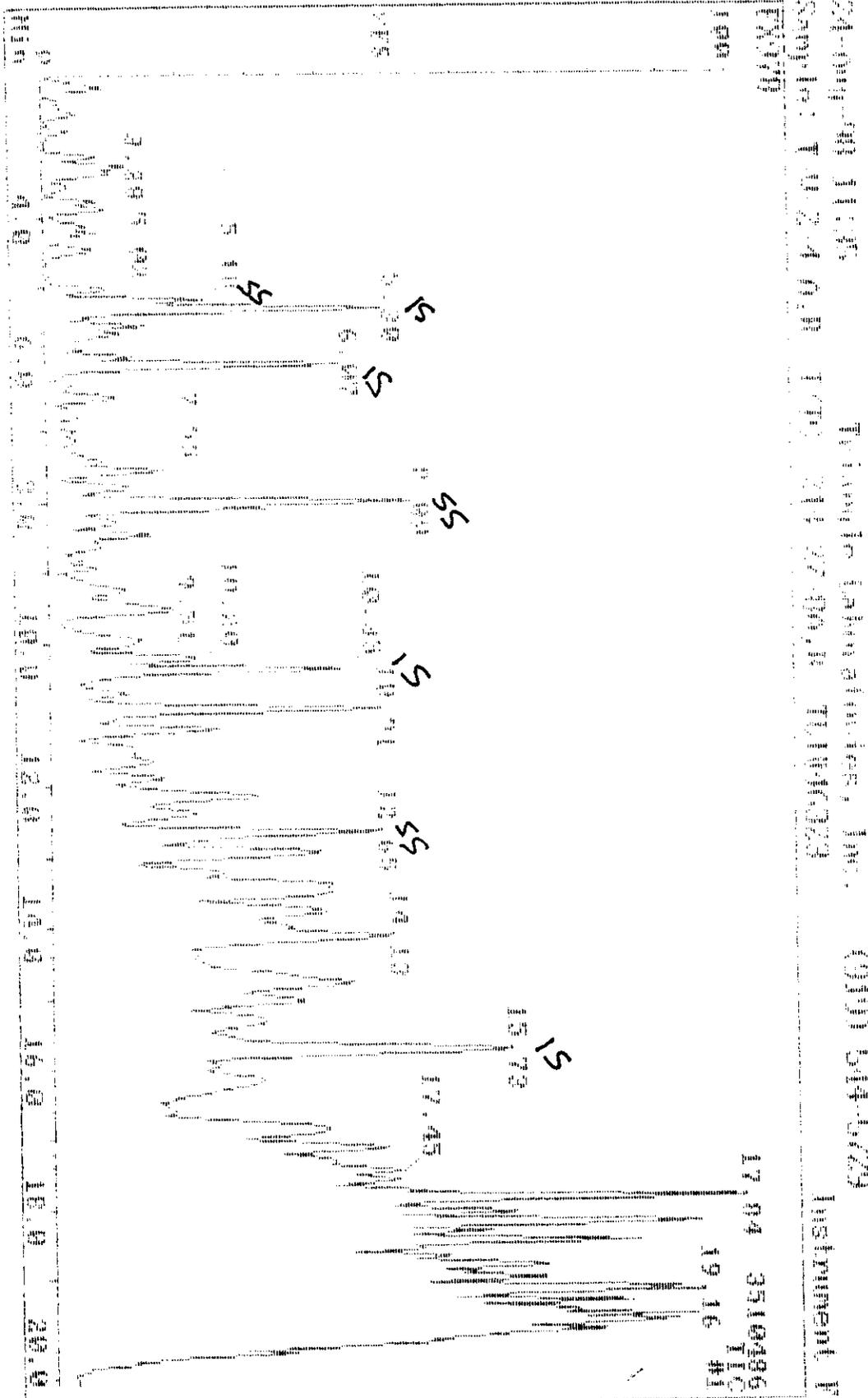
Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 17:21 08/25/1998





No	RAT	FOR	REV	Delta	Amount	FLUGS	Q1	Q1 Status
31	0	0	0	0	0	0	0.000	100% (0.000)
32	33	33	33	-1	232030	10	0.000	100% (0.000)
33	100	33	34	-1	675177	10	0.000	100% (0.000)
34	31	31	34	1	413403	10	0.000	100% (0.000)
35	0	0	0	0	214384	10	11.70	100% (11.70)
36	0	0	0	0	0	0	0.000	100% (0.000)
37	0	0	0	0	0	0	0.000	100% (0.000)
38	0	0	0	0	0	0	0.000	100% (0.000)
39	0	0	0	0	0	0	0.000	100% (0.000)
40	0	0	0	0	0	0	0.000	100% (0.000)
41	0	0	0	0	0	0	0.000	100% (0.000)
42	11	11	11	0	100000	10	0.000	100% (0.000)
43	0	0	0	0	0	0	0.000	100% (0.000)
44	0	0	0	0	0	0	0.000	100% (0.000)
45	0	0	0	0	0	0	0.000	100% (0.000)
46	0	0	0	0	0	0	0.000	100% (0.000)
47	0	0	0	0	0	0	0.000	100% (0.000)
48	0	0	0	0	0	0	0.000	100% (0.000)
49	0	0	0	0	0	0	0.000	100% (0.000)
50	0	0	0	0	0	0	0.000	100% (0.000)
51	0	0	0	0	0	0	0.000	100% (0.000)
52	0	0	0	0	0	0	0.000	100% (0.000)
53	0	0	0	0	0	0	0.000	100% (0.000)
54	0	0	0	0	0	0	0.000	100% (0.000)
55	0	0	0	0	0	0	0.000	100% (0.000)
56	0	0	0	0	0	0	0.000	100% (0.000)
57	0	0	0	0	0	0	0.000	100% (0.000)
58	0	0	0	0	0	0	0.000	100% (0.000)
59	0	0	0	0	0	0	0.000	100% (0.000)
60	0	0	0	0	0	0	0.000	100% (0.000)

214384 (M) PAB ~~11.70~~



24-Aug-98 11:35

Triangle Laboratories, Inc.

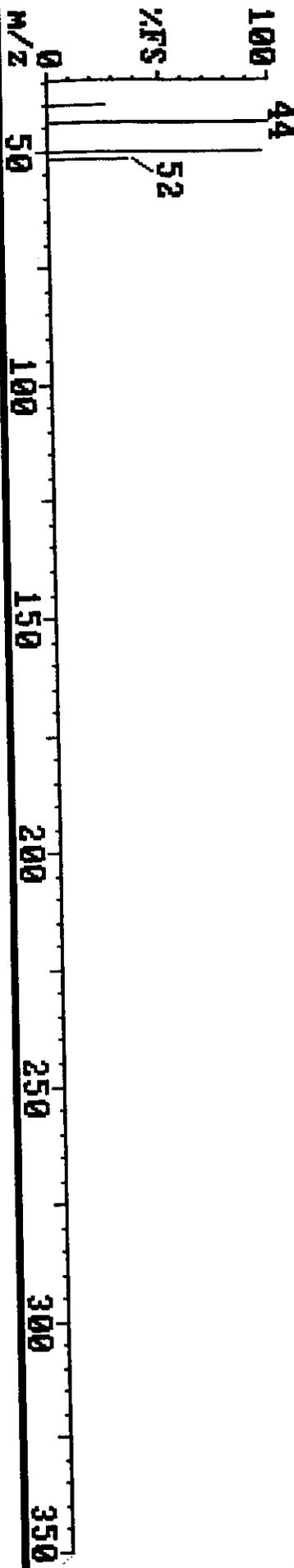
(919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL1#46323

Instrument F

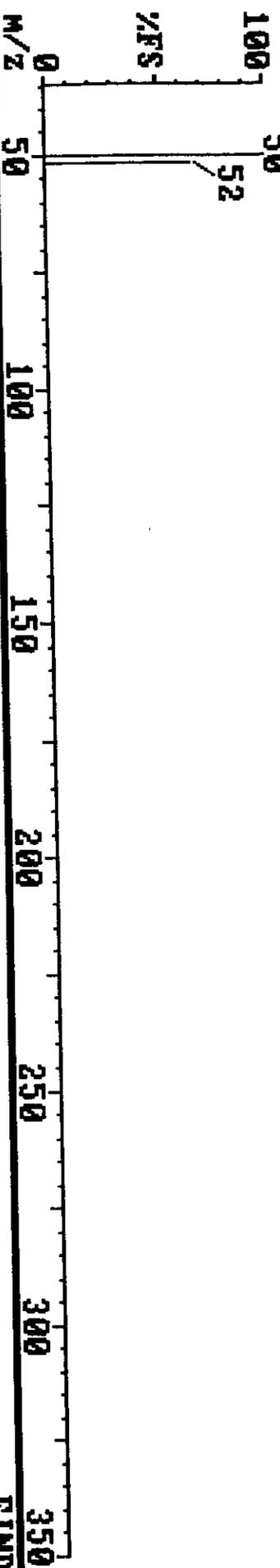
**FY978 109 (1.090)**

**16320**



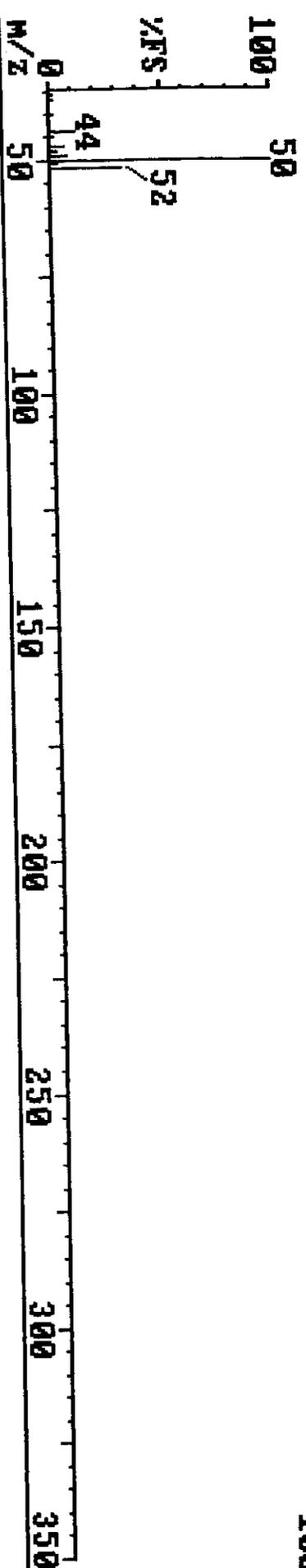
**FY978 109 (1.091) REFINE**

**6080**



**B260 9 (1.230) Chloromethane**

**FIND 100**



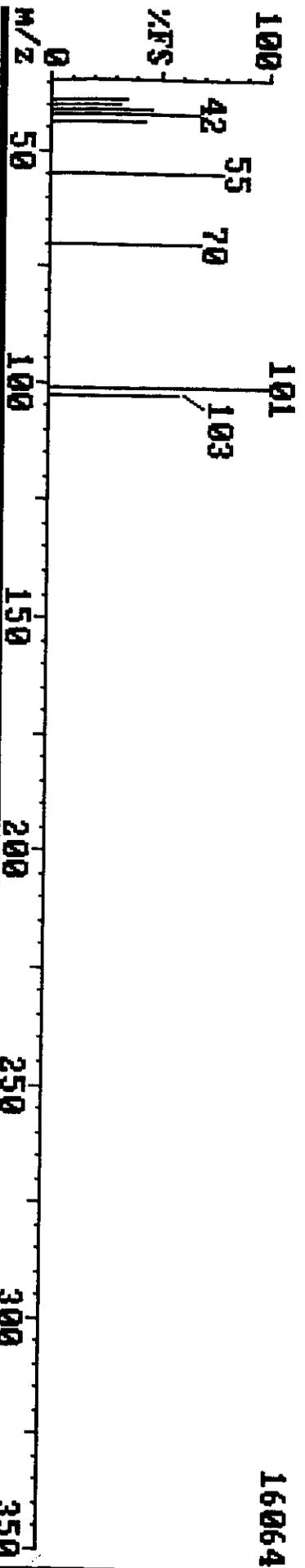
24-Aug-98 11:35

Triangle Laboratories, Inc. (919) 544-5729

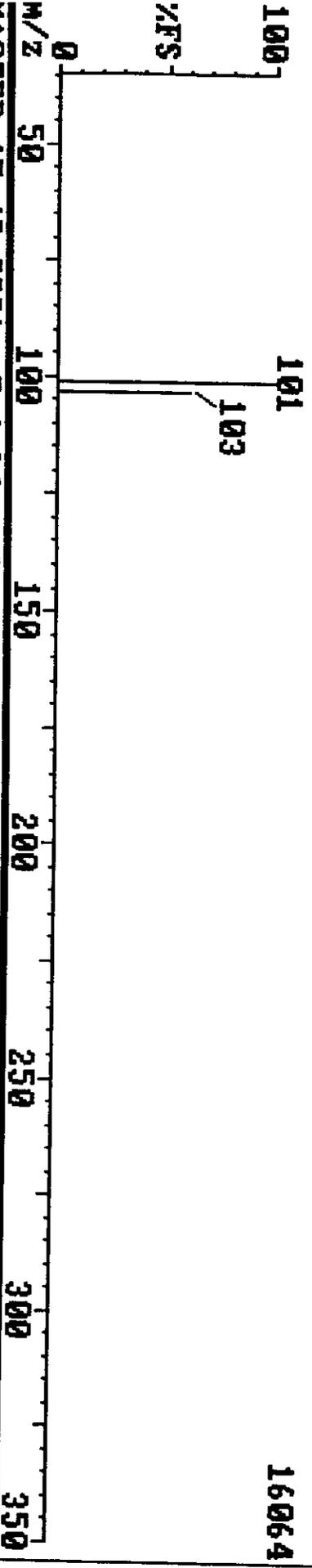
Sample: T-U-2-4-A,B T/TIC 214-27-8A,B TL1#46323

Instrument F

FX978 207 (2.070)



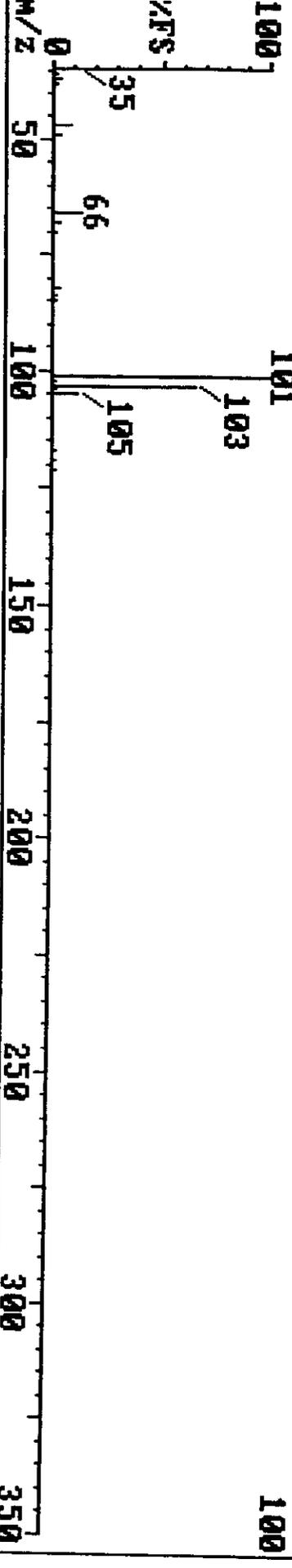
FX978 207 (2.071) REFINE



MASTER 15 (2.330) Trichlorofluoromethane

FIND

100







24-Aug-98 11:35

Triangle Laboratories, Inc.

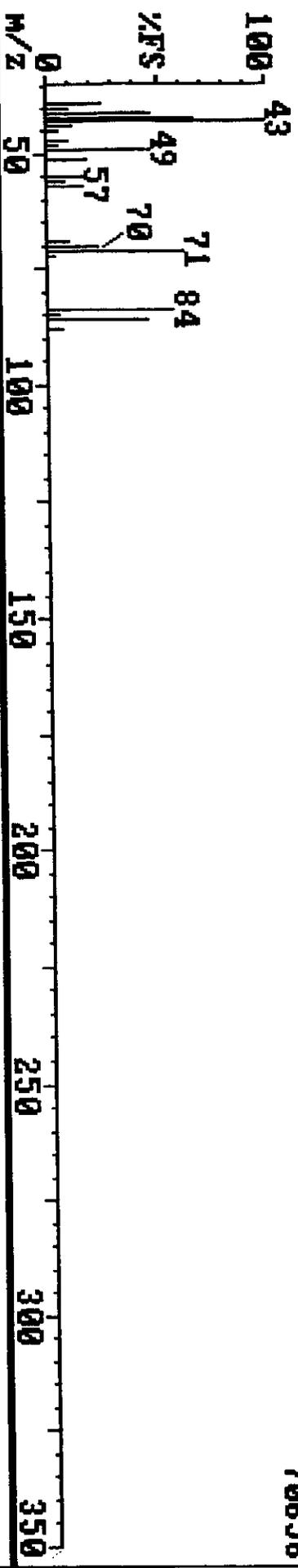
(919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL1#46323

Instrument F

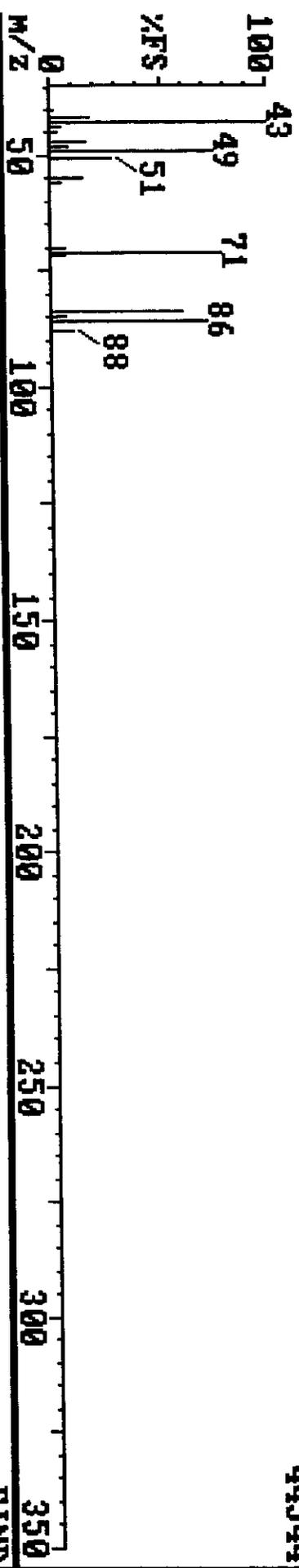
FX978 327 (3.270)

70656



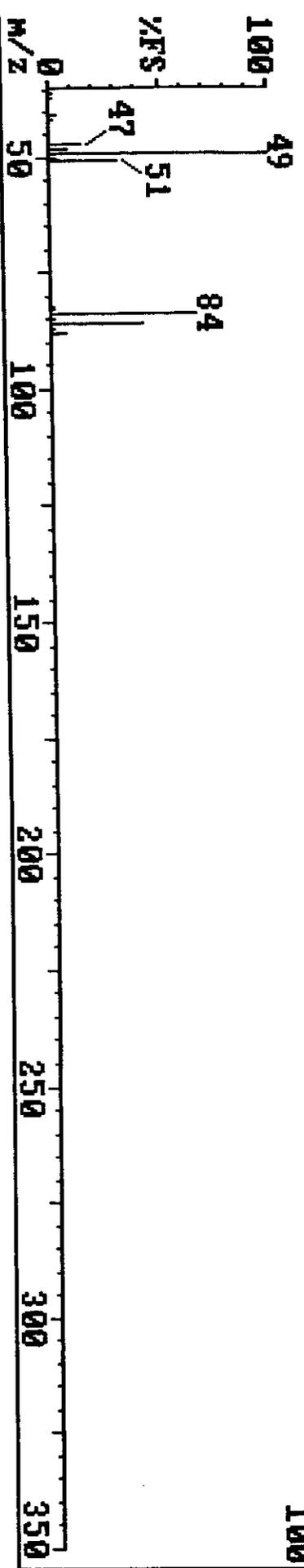
FX978 327 (3.271) REFINE

44544



8260 15 (3.550) Methylene chloride

FIND 100

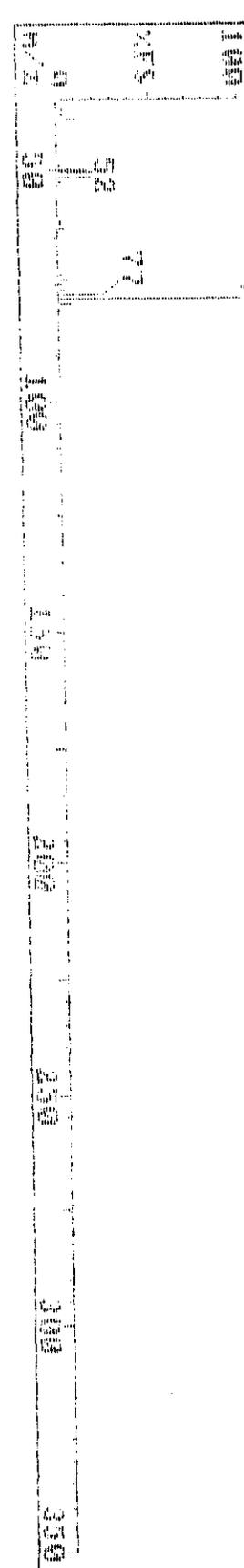
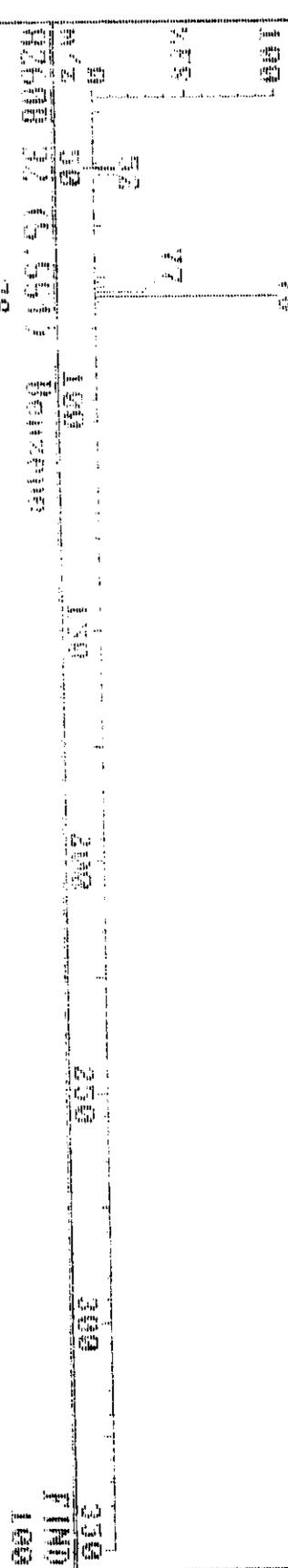
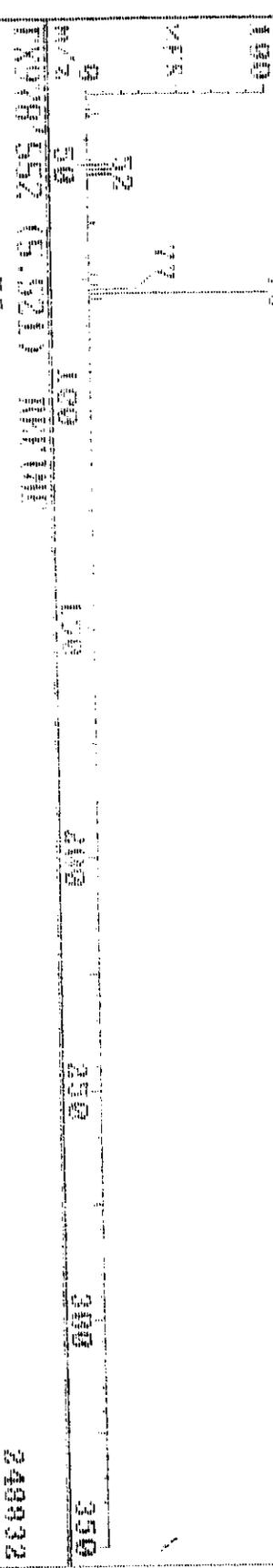




24-000-30 11:35 T. H. W. Laboratories, Inc. (010) 544-5729 Instrument P

Sample: 14-2-4-01 100 214 27 100 11114620

1000 52 (6.520) 262144







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24-Aug-98 11:35

Triangle Laboratories, Inc.

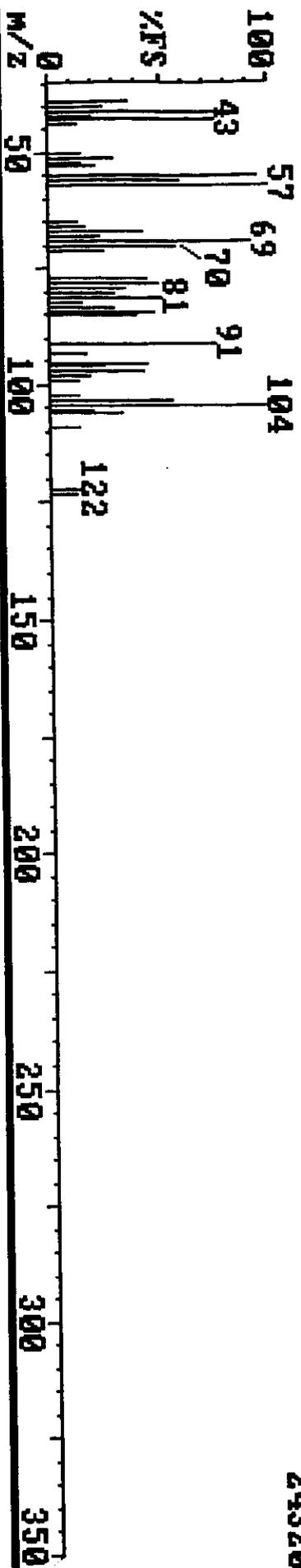
(919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL#46323

Instrument F

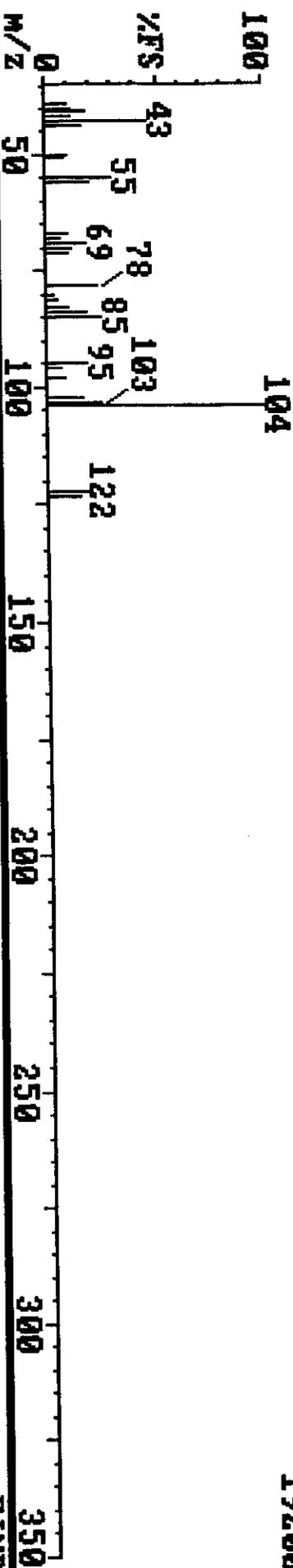
FX978 1170 (11.701)

24320



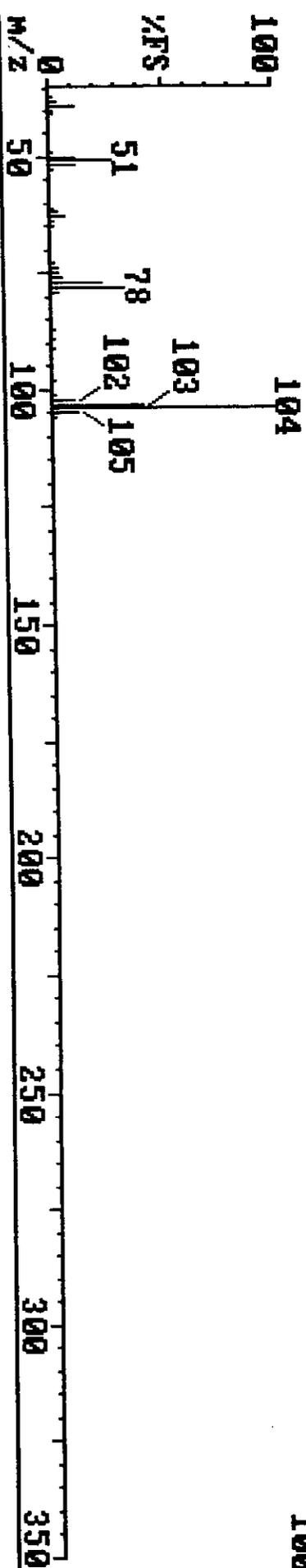
FX978 1170 (11.701) REFINE

19200



8260 44 (12.371) Styrene

FIND 100





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**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: FX979**

**Method 8260 VOST**  
**Sample ID: T-V-3-1-A,B T/TC**

**Client Project: R012.001**  
**TLI ID: 214-27-16A,B**

**Date Received: 07/29/98**

**Response File: ICALF821**

**Date Analyzed : 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
Chloromethane	0.030	J	1.08		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.005	J	1.66		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.011	J	2.06		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.015	J	2.78		0.05
Acetone	0.183		2.87		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.508		3.27		0.05
Acrylonitrile		U		0.020	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.166		4.75		0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.08		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.096		5.53		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX979

Method 8260 VOST  
Sample ID: T-V-3-1-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-16A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.212		8.12		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.38		
Tetrachloroethene	0.023	J	8.96		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.075		10.71		0.05
m-/p-Xylene	0.335		10.94		0.10
o-Xylene	0.131		11.66		0.05
Styrene	0.029	J	11.72		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.78		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323  
Sample File: FX979

Method 8260 VOST  
Sample ID: T-V-3-1-A,B T/TC

Client Project: R012.001  
FLI ID: 214-27-16A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.209	5.19	1	84
Toluene-d <sub>8</sub>	0.256	8.02	2	102
4-Bromofluorobenzene	0.283	12.69	2	113

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7  
Printed: 16:49 08/25/1998

337

135

**Pacific Environmental Services**

Project Number: 46323  
Sample File: FX979

Method 8260 VOST  
Sample ID: T-V-3-1-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-16A,B

Date Received: 07/29/98

Response File: ICALF824

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.028	J	3.61		0.25
n-Hexane	0.107	J	3.89		0.25
1,2-Epoxybutane		U		0.024	0.25
Iso-Octane	0.012	J	5.68		0.25
1,4-Difluorobenzene		IS 2	6.08		
Ethyl acrylate		U		0.007	0.25

Reviewed by \_\_\_\_\_

*PAB* Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

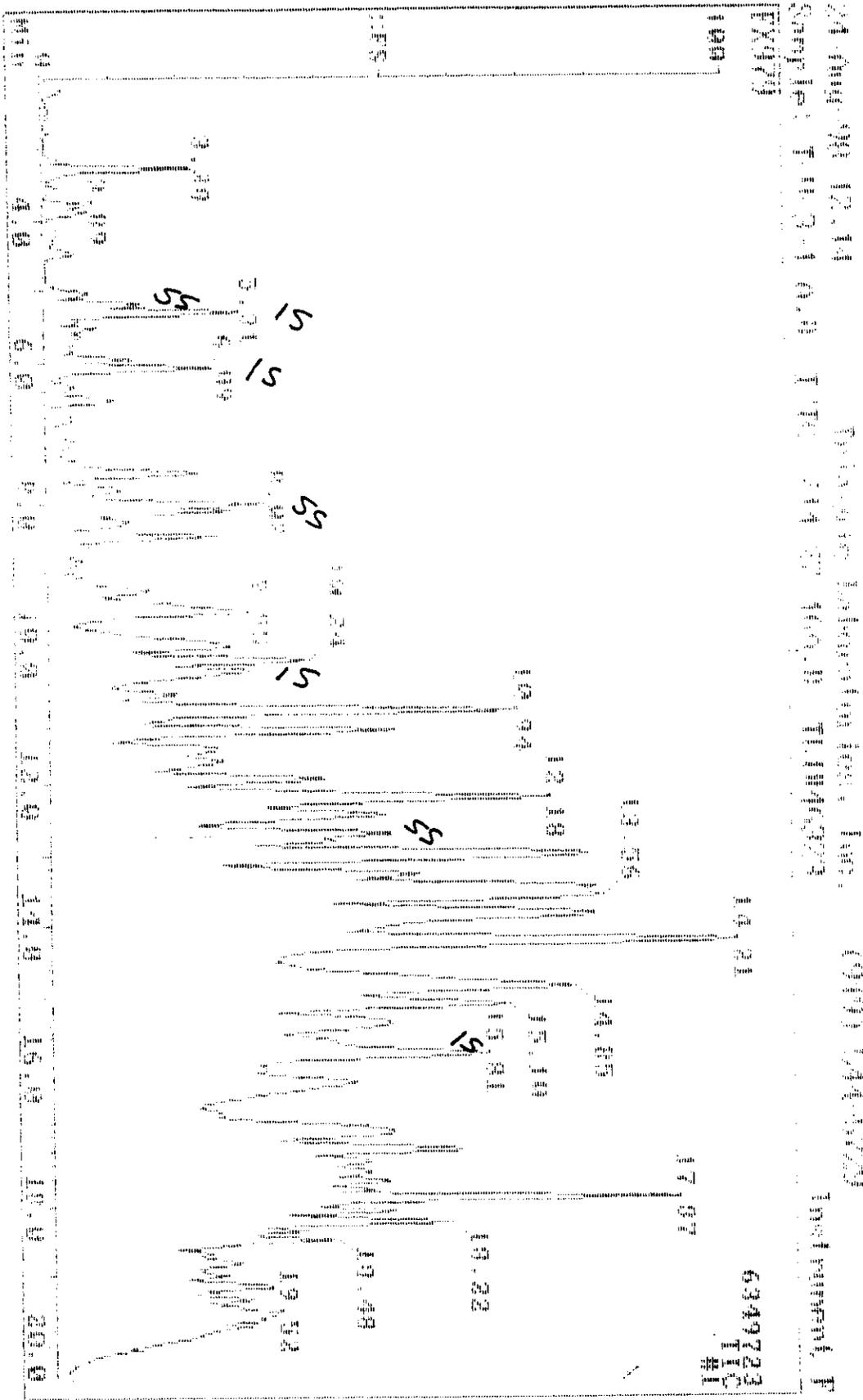
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Savar v3.7.

Printed: 17:21 08/25/1998



Data Review: PAB  
 Date: 8/24/98

Line	QTY	Unit	Price	Amount	Description	QTY	Unit	Price	Description
1	100	00	00	00	419 10 20 100	1	00	00	100 10 20 100
2	100	00	00	00	419 10 20 100	1	00	00	100 10 20 100
3	100	00	00	00	419 10 20 100	1	00	00	100 10 20 100
4	00	00	00	00	419 10 20 100	1	00	00	100 10 20 100
5	100	00	00	00	419 10 20 100	1	00	00	100 10 20 100
6	100	00	00	00	419 10 20 100	1	00	00	100 10 20 100
7	00	00	00	00	419 10 20 100	1	00	00	100 10 20 100
8	00	00	00	00	419 10 20 100	1	00	00	100 10 20 100
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14	00	00	00	00	419 10 20 100	1	00	00	100 10 20 100
15	00	00	00	00	419 10 20 100	1	00	00	100 10 20 100
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77092 - (M) PAB → 1.08

21136 - (M) PAB → 1.66

(M) PAB

(M) PAB

(M) PAB

(M) PAB

Data Review: PAB  
Date: 8/24/98



NO	DATE	FOR	BY	DE	AMOUNT	RT	DESCRIPTION
1	100	75	23	2	4124592	100	103 2-ml of Fluorobenzene
2	100	90	21	0	4145822	100	114 1-ml of Fluorobenzene
3	100	77	22	1	3012028	100	117 Fluorobenzene
4	101	19	29	1	1721600	0	132 1-ml of Fluorobenzene
5	100	74	29	2	1300843	100	133 Fluorobenzene
6	100	85	28	0	3097512	100	138 Fluorobenzene
7	70	85	20	1	105636	100	135 1-ml of Fluorobenzene
8	100	100	10	0	1000000	100	139 1-ml of Fluorobenzene
9	100	100	10	0	1000000	100	136 1-ml of Fluorobenzene
10	100	100	10	0	1000000	100	137 1-ml of Fluorobenzene
11	100	100	10	0	1000000	100	138 1-ml of Fluorobenzene
12	100	100	10	0	1000000	100	139 1-ml of Fluorobenzene
13	100	100	10	0	1000000	100	140 1-ml of Fluorobenzene
14	100	100	10	0	1000000	100	141 1-ml of Fluorobenzene
15	100	100	10	0	1000000	100	142 1-ml of Fluorobenzene

GP PUB

GP PUB

GP PUB

24-Aug-98 12:14

Triangle Laboratories, Inc.

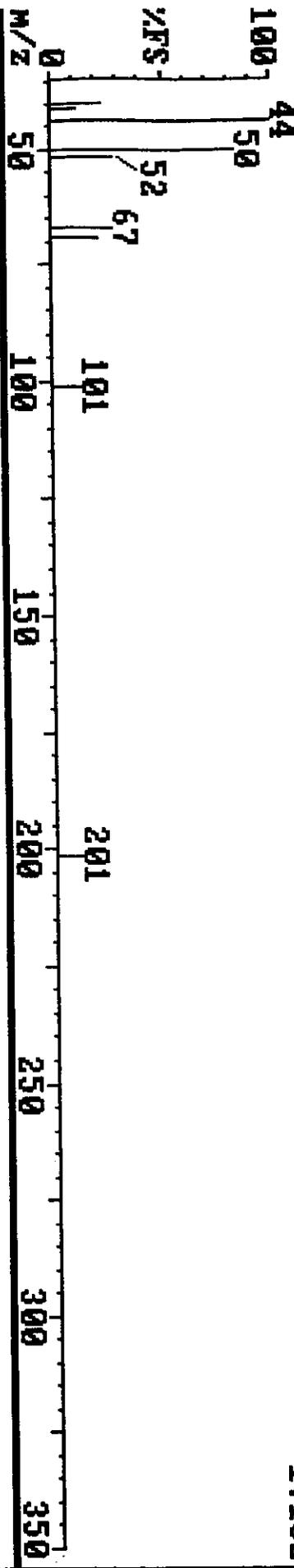
(919) 544-5729

Sample: T-U-3-1-A,B T/TC 214-27-16A,B TL1#46323

Instrument F

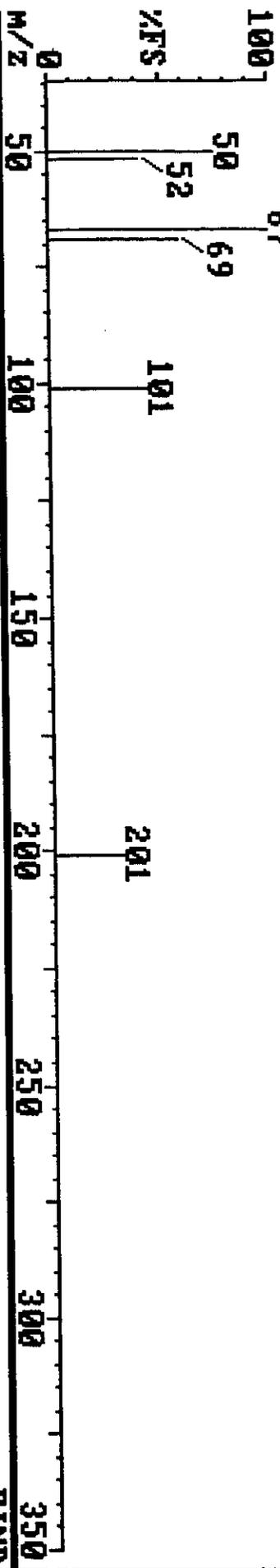
FY979 108 (1.088)

17152



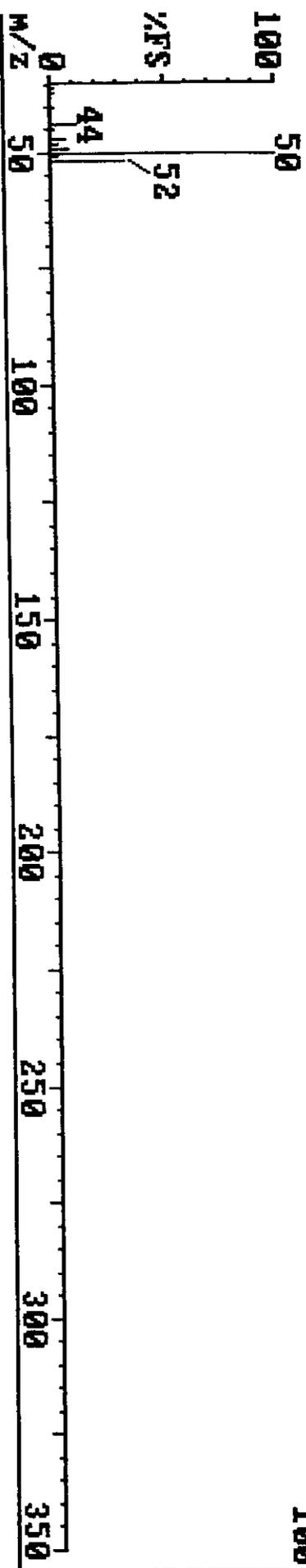
FY979 108 (1.081) REFINE

6208



8260 9 (1.230) Chloromethane

FIND 100



14-Aug-98 12:14

Triangle Laboratories, Inc.

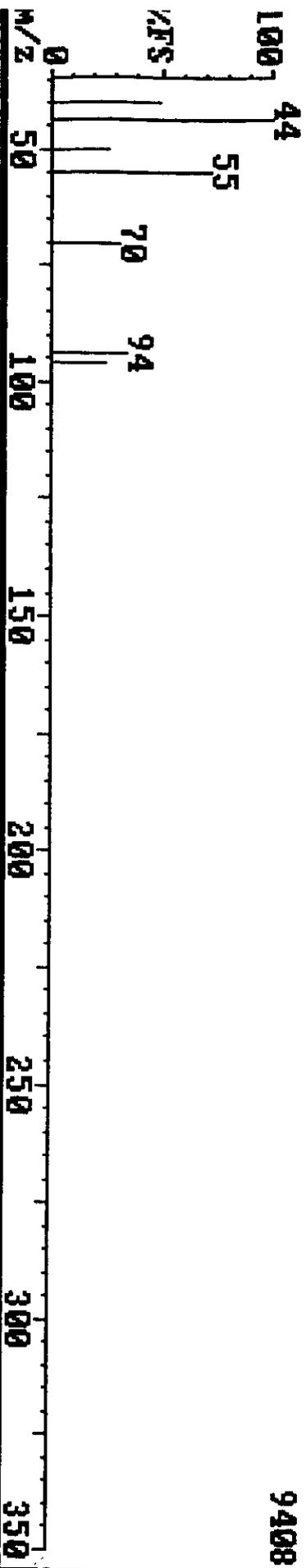
(919) 544-5729

Sample: T-U-3-1-A, B T/TC 214-27-16A, B TL1#46323

Instrument F

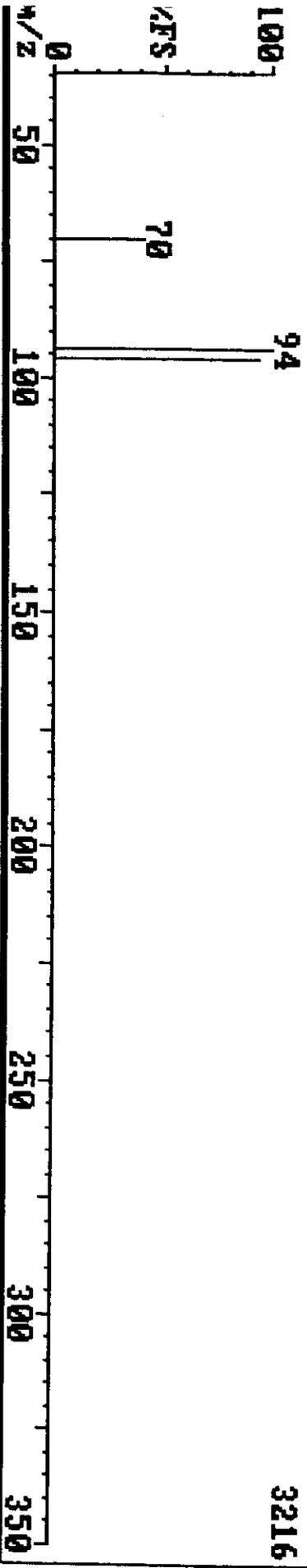
FX979 166 (1.660)

9408



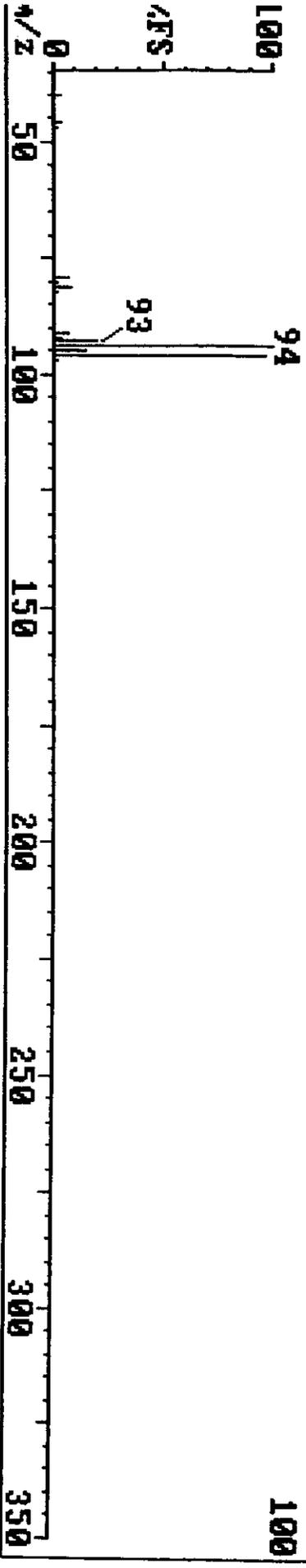
FX979 166 (1.661) REFINE

3216



3260 11 (1.830) Bromomethane

FIND 100















24 Aug 68 17:14	1770	407	696320
Sample 1-43-4-A	1770 <td>407 <td>696320</td> </td>	407 <td>696320</td>	696320
1099 117 (0.120)			696320
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970	97	350	
975	97	350	
980	97	350	
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990	97	350	
995	97	350	







24-000-00 12714 Instrument I

Sample 1-02-1-000 100 200 300 400 500

1000 100 200 300 400 500 327680

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100 100 200 300 400 500

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24-Aug-98 12:14

Triangle Laboratories, Inc.

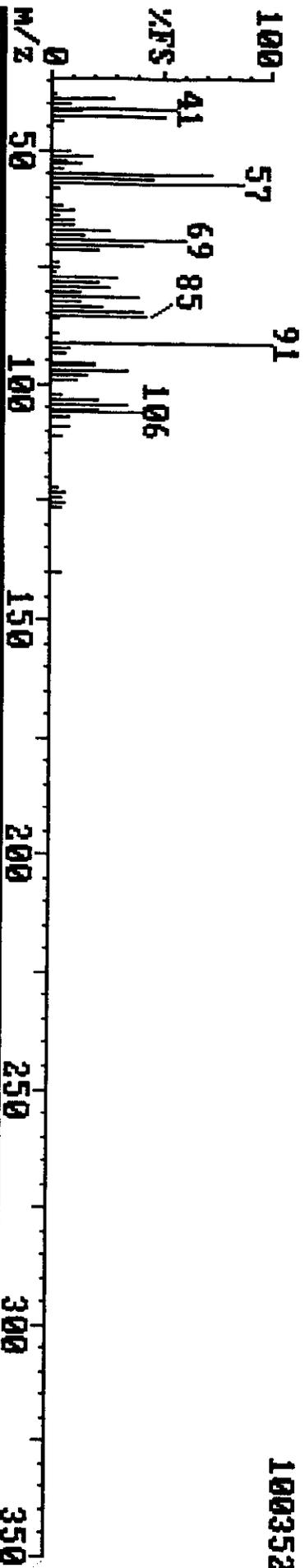
(919) 544-5729

Sample: T-U-3-1-A,B T/TIC 214-27-16A,B TL1#46323

Instrument F

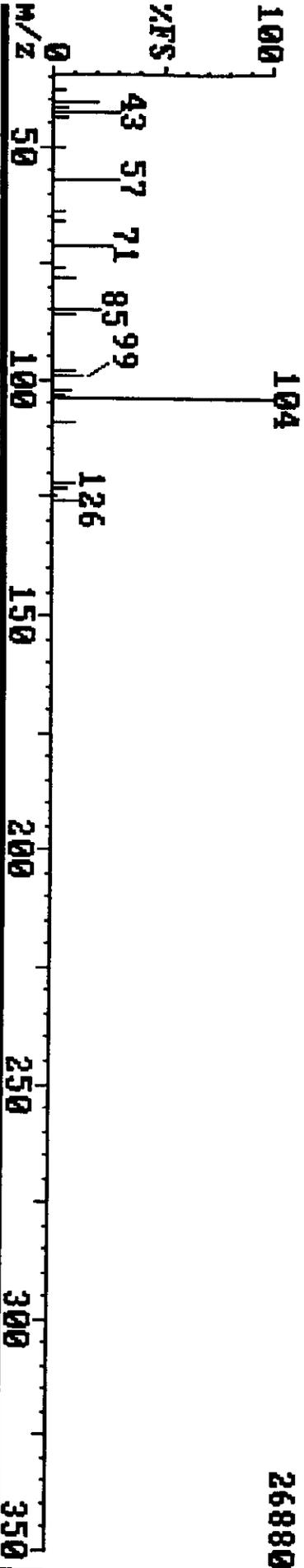
FX979 1172 (11.721)

100352



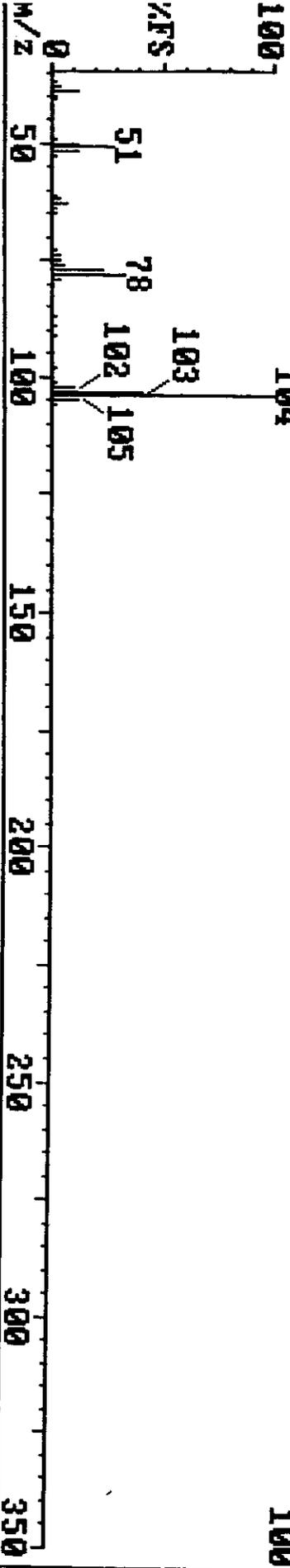
FX979 1172 (11.721) REFINE

26880



B260 44 (12.371) Styrene

FIND 100



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1030			1000
1040			1000
1050			1000
1060			1000
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1900			1000
1910			1000
1920			1000
1930			1000
1940			1000
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Account	Balance	Debit	Credit	Balance
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1002	1000			1000
1003	1000			1000
1004	1000			1000
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1195	1000			1000
1196	1000			1000
1197	1000			1000
1198	1000			1000
1199	1000			1000
1200	1000			1000



**Pacific Environmental Services**

Project Number: 46323

Sample File: FX980

Method 8260 VOST

Sample ID: T-V-3-2-A,B T/TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-17A,B

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.011	J	2.07		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.017	J	2.78		0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.828		3.27		0.05
Acrylonitrile		U		0.020	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.131		5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Savar v3.7

Printed: 16:49 08/25/1998

**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: FX980**

**Method 8260 VOST**  
**Sample ID: T-V-3-2-A,B T/TC**

**Client Project: R012.001**  
**TLI ID: 214-27-17A,B**

**Date Received: 07/29/98**

**Response File: ICALF821**

**Date Analyzed : 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.200		8.10		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	10.35		
Tetrachloroethene	0.015	J	8.93		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.065		10.67		0.05
m-/p-Xylene	0.314		10.91		0.10
o-Xylene	0.118		11.63		0.05
Styrene	0.036	J	11.69		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.73		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323  
Sample File: FX980

Method 8260 VOST  
Sample ID: T-V-3-2-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-17A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.205	5.18	1	82
Toluene-d <sub>8</sub>	0.260	8.00	2	104
4-Bromofluorobenzene	0.333	12.66	2	133

Reviewed by RAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
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Pacific Environmental Services

Project Number: 46323  
Sample File: FX980

Method 8260 VOST  
Sample ID: T-V-3-2-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-17A,B

Date Received: 07/29/98

Response File: ICALF824

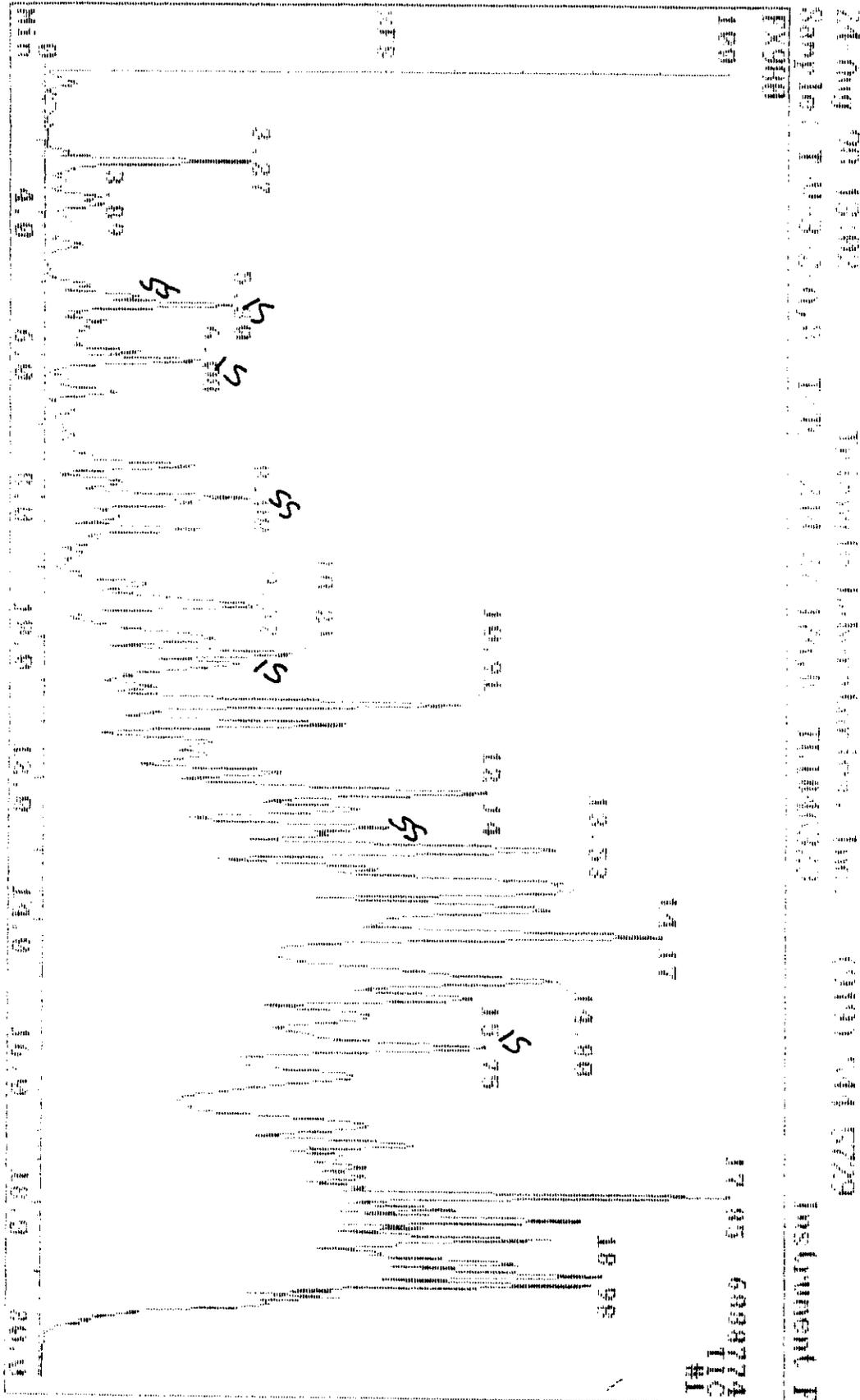
Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.022	J	3.60		0.25
n-Hexane	0.135	J	3.89		0.25
1,2-Epoxybutane		U		0.024	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.007	0.25

Reviewed by     PAB     Date     8/25/98    

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range



Data Review: PAB  
 Date: 8/24/98

Qty	Unit	FOR	FW	Unit Cost	Amount	Unit Weight	QM Name
1	100	70	77	0	1171129	100	104 Pentachlorocyclopentadiene
2	100	77	80	0	4000000	100	114 1,1,1,1-tetrachloroethane
3	20	77	107	1	3499150	100	117 Chloroacetylene
4	55	70	77	0	1586150	100	119 1,1,1,2,2-pentafluoroethane
5	20	70	77	1	1512400	100	113 Dichlorodifluoromethane
6	100	82	84	1	888400	100	128 Dichloroethane
7	40	40	71	1	2111000	100	125 Dichlorodifluoromethane
8	0	0	0	0	0	0	135 Trichloroethylene
9	0	0	0	0	0	0	116 Dichloroethane
10	0	0	0	0	0	0	122 1,1,1,2-tetrafluoroethane
11	0	0	0	0	0	0	118 Trichloroethylene
12	0	0	0	0	0	0	114 1,1,1,1-tetrachloroethane
13	0	0	0	0	0	0	117 Chloroacetylene
14	0	0	0	0	0	0	119 1,1,1,2,2-pentafluoroethane
15	0	0	0	0	0	0	113 Dichlorodifluoromethane
16	0	0	0	0	0	0	128 Dichloroethane
17	0	0	0	0	0	0	125 Dichlorodifluoromethane
18	0	0	0	0	0	0	135 Trichloroethylene
19	0	0	0	0	0	0	116 Dichloroethane
20	0	0	0	0	0	0	122 1,1,1,2-tetrafluoroethane
21	0	0	0	0	0	0	118 Trichloroethylene
22	0	0	0	0	0	0	114 1,1,1,1-tetrachloroethane
23	0	0	0	0	0	0	117 Chloroacetylene
24	0	0	0	0	0	0	119 1,1,1,2,2-pentafluoroethane
25	0	0	0	0	0	0	113 Dichlorodifluoromethane
26	0	0	0	0	0	0	128 Dichloroethane
27	0	0	0	0	0	0	125 Dichlorodifluoromethane
28	0	0	0	0	0	0	135 Trichloroethylene
29	0	0	0	0	0	0	116 Dichloroethane
30	0	0	0	0	0	0	122 1,1,1,2-tetrafluoroethane
31	0	0	0	0	0	0	118 Trichloroethylene
32	0	0	0	0	0	0	114 1,1,1,1-tetrachloroethane
33	0	0	0	0	0	0	117 Chloroacetylene
34	0	0	0	0	0	0	119 1,1,1,2,2-pentafluoroethane
35	0	0	0	0	0	0	113 Dichlorodifluoromethane
36	0	0	0	0	0	0	128 Dichloroethane
37	0	0	0	0	0	0	125 Dichlorodifluoromethane
38	0	0	0	0	0	0	135 Trichloroethylene
39	0	0	0	0	0	0	116 Dichloroethane
40	0	0	0	0	0	0	122 1,1,1,2-tetrafluoroethane
41	0	0	0	0	0	0	118 Trichloroethylene
42	0	0	0	0	0	0	114 1,1,1,1-tetrachloroethane
43	0	0	0	0	0	0	117 Chloroacetylene
44	0	0	0	0	0	0	119 1,1,1,2,2-pentafluoroethane
45	5.1	70	107	0	106300	100	117 Chloroacetylene
46	0	0	0	0	0	0	113 Dichlorodifluoromethane
47	0	0	0	0	0	0	128 Dichloroethane
48	0	0	0	0	0	0	125 Dichlorodifluoromethane
49	0	0	0	0	0	0	135 Trichloroethylene
50	0	0	0	0	0	0	116 Dichloroethane

138560 - (P) PAB 207

(P) PAB

(P) PAB

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(P) PAB

(P) PAB

Data Review: PAB  
Date: 8/24/98

Row	Area	2018	2017	Delta	Area	Pr. Type	Pr.	2018	Pr. Name
51	0	0	0	0	0		0.000	131	1.1.1.2 - Data Administration
52	80	20	20	-1	644200	1.1	10.071	100	Marketing
53	50	20	-1	-1	373001	1w	10.010	106	Marketing
54	80	40	37	1	1130632	1w	10.031	106	Marketing
55	1	0	0	0	461056	NO PAID	1.69	104	Marketing
56	0	0	0	0	0		0.000	173	Marketing
57	0	0	0	0	0		0.000	105	Marketing
58	0	0	0	0	0		0.000	105	Marketing
59	0	0	0	0	0		0.000	106	Marketing
60	0	0	0	0	0		0.000	106	Marketing
61	0	0	0	0	0		0.000	106	Marketing
62	57	10	21	19	1130630	1w	10.030	106	Marketing
63	0	0	0	0	0		0.000	106	Marketing
64	0	0	0	0	0		0.000	106	Marketing
65	14	20	24	-1	300501	1w	10.010	106	Marketing
66	0	0	0	0	0		0.000	106	Marketing
67	10	0	0	0	200500	1w	10.010	106	Marketing
68	47	0	0	0	1130632	1w	10.031	106	Marketing
69	11	0	0	0	1130630	1w	10.030	106	Marketing
70	0	0	0	0	0		0.000	106	Marketing
71	0	0	0	0	0		0.000	106	Marketing
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85	0	0	0	0	0		0.000	106	Marketing
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96	0	0	0	0	0		0.000	106	Marketing
97	0	0	0	0	0		0.000	106	Marketing
98	0	0	0	0	0		0.000	106	Marketing
99	0	0	0	0	0		0.000	106	Marketing
100	0	0	0	0	0		0.000	106	Marketing

No.	PHI	FOR	RTV	REF	REF	REF	REF	REF
1	100	70	27	1	1001356	100	5	1001
2	100	87	25	0	4022975	100	6	1001
3	99	71	27	-1	1499136	100	10	1001
4	100	20	30	0	1988189	100	12	1001
5	100	65	27	0	1327408	100	5	1001
6	100	82	24	0	1038442	100	8	1001
7	100	16	21	0	1121619	100	10	1001
8	<del>100</del>	<del>7</del>	<del>2</del>	<del>0</del>	<del>1111111</del>	<del>100</del>	<del>11</del>	<del>1001</del>
9	100	10	16	0	0	100	0	1001
10	60	30	30	1	100560	100	3	1001
11	100	21	21	0	1002000	100	7	1001
12	<del>100</del>	<del>10</del>	<del>10</del>	<del>0</del>	<del>1001000</del>	<del>100</del>	<del>10</del>	<del>1001</del>
13	<del>100</del>	<del>10</del>	<del>10</del>	<del>0</del>	<del>1001000</del>	<del>100</del>	<del>10</del>	<del>1001</del>
14	<del>100</del>	<del>10</del>	<del>10</del>	<del>0</del>	<del>1001000</del>	<del>100</del>	<del>10</del>	<del>1001</del>

SP FOR

SP FOR

SP FOR

SP FOR

24-Aug-98 13:02

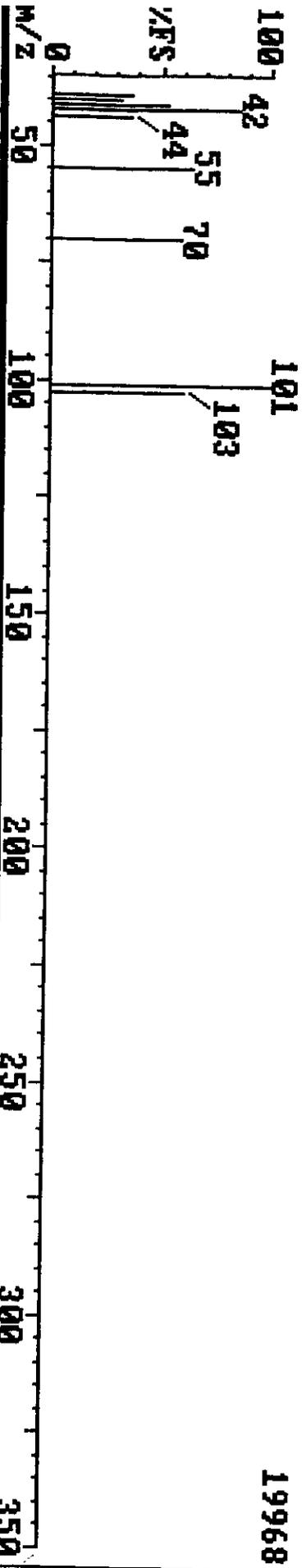
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-3-2-A, B T/TC 214-27-17A, B TL#46323

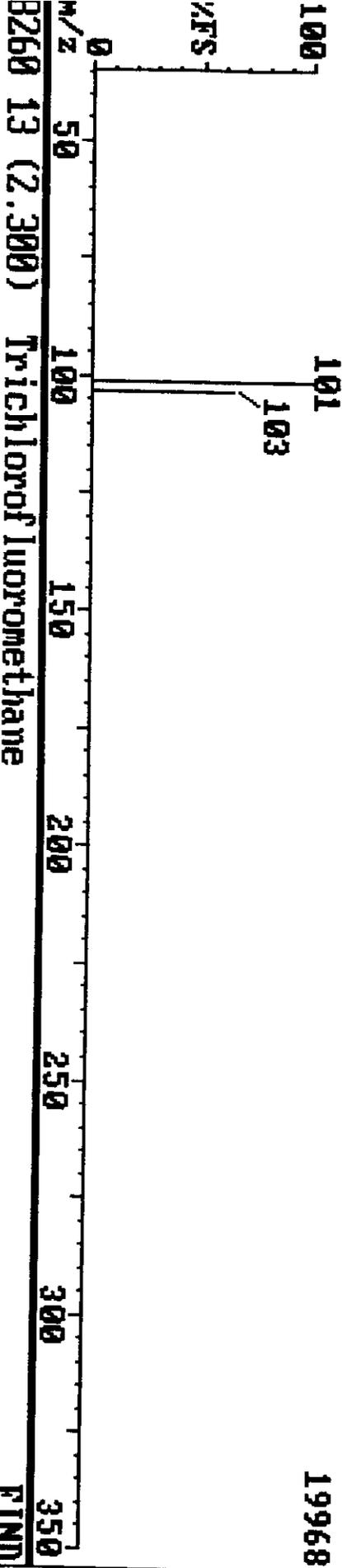
Instrument F

FX980 207 (2.070)



FX980 207 (2.071) REFINE

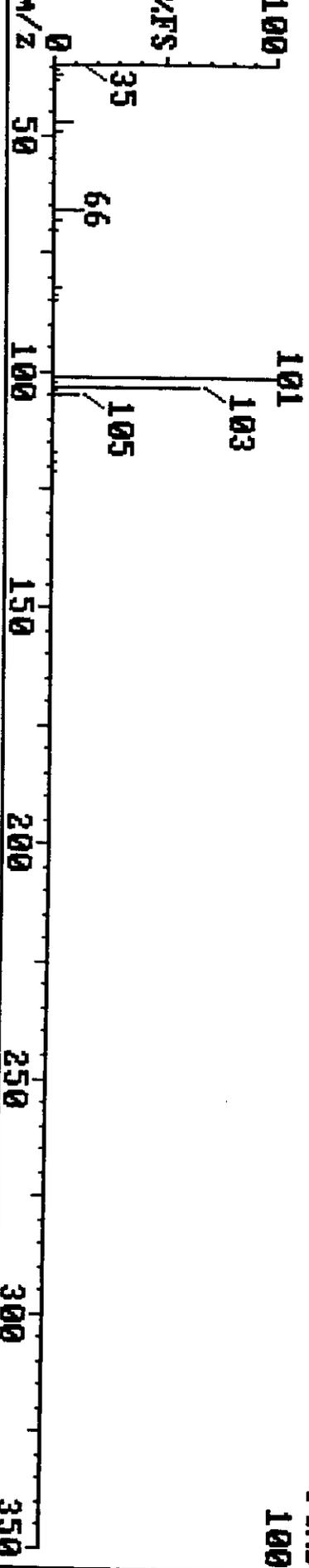
19968



B260 13 (2.300) Trichlorofluoromethane

FIND

100



Year	Month	Day	Time	Location	Remarks	Temperature	Wind	Humidity	Pressure	Clouds	Visibility	Other
1944	1	1	0800	...	...	...	...	...	...	...	...	...
1944	1	2	0800	...	...	...	...	...	...	...	...	...
1944	1	3	0800	...	...	...	...	...	...	...	...	...
1944	1	4	0800	...	...	...	...	...	...	...	...	...
1944	1	5	0800	...	...	...	...	...	...	...	...	...
1944	1	6	0800	...	...	...	...	...	...	...	...	...
1944	1	7	0800	...	...	...	...	...	...	...	...	...
1944	1	8	0800	...	...	...	...	...	...	...	...	...
1944	1	9	0800	...	...	...	...	...	...	...	...	...
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1944	1	31	0800	...	...	...	...	...	...	...	...	...









21 Aug 68 1107

Training Laboratories, Inc.

(300) 644-5779

Sample: T-002-91

100 100 100 100

100 100 100

Instrument 1

100 100 100 100

100 100 100 100

239616

M/S

55 97

100

M/S

41 97

100

350

M/S

100 100 100 100

100

219136

M/S

100 100 100 100

100

M/S

100 100 100 100

100

350

M/S

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100

100

M/S

100 100 100 100

100

M/S

100 100 100 100

100

350



24-Aug-98 11:02

Trinity Church, Inc. (99) 04-573

Sample: 70-22-A11

7/6 24-25-000 1000000

Instrument 1

W000 100 (01.630)

100 91

319488

275 91 275 91

9 275 91 275 91

275 91 275 91

W000 100 (01.630) 1000000

100 91

270036

275 91 275 91

9 275 91 275 91

275 91 275 91

W000 100 (01.630) 1000000

100 91

100

275 91 275 91

9 275 91 275 91

275 91 275 91

W000 100 (01.630) 1000000

100 91

300

24-Aug-98 13:02

Triangle Laboratories, Inc.

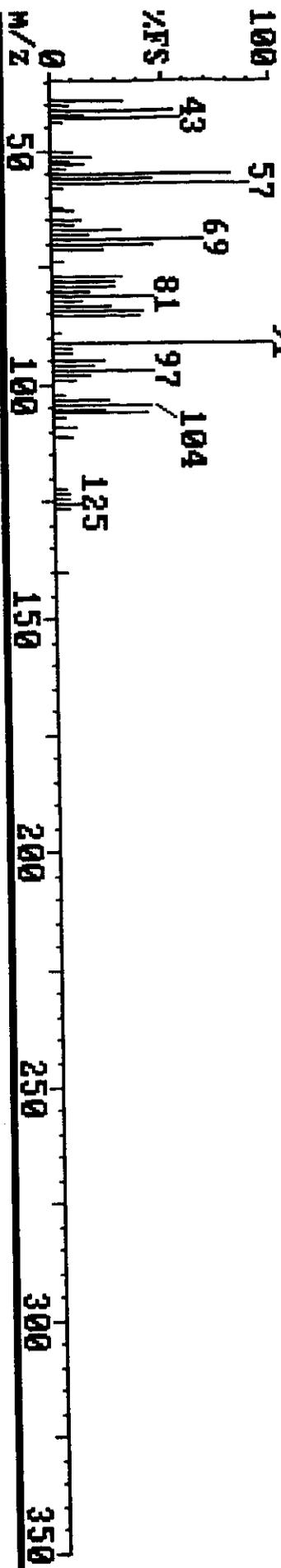
(919) 544-5729

Sample: T-U-3-2-A,B T/TC 214-27-17A,B TL1#46323

Instrument F

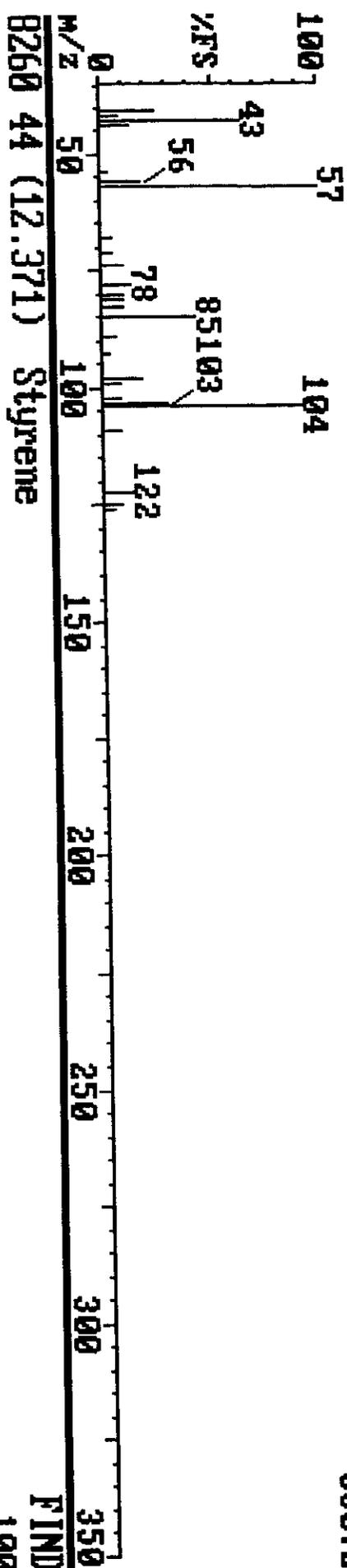
FY980 1169 (11.691)

98304



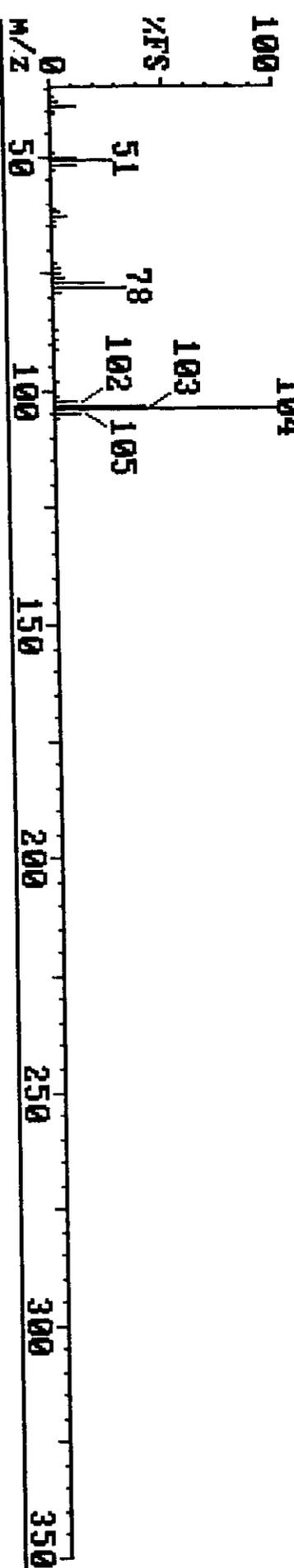
FY980 1169 (11.691) REFINE

35072



B260 44 (12.371) Styrene

FIND 100



Code	Description	Quantity	Unit Price	Total Price	Notes
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002	...	...	...	...	
003	...	...	...	...	
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010	...	...	...	...	
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099	...	...	...	...	
100	...	...	...	...	



**Pacific Environmental Services**

**Project Number: 46323**

**Sample File: FX981**

**Method 8260 VOST**

**Sample ID: T-V-3-3-A,B T/TC**

**Client Project: R012.001**

**Date Received: 07/29/98**

**Response File: ICALF821**

**TLI ID: 214-27-18A,B**

**Date Analyzed : 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
Chloromethane	0.043	J	1.09		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.006	J	2.08		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide	0.020	J	2.79		0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.049	J	3.28		0.05
Acrylonitrile		U		0.019	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.08		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.129		5.53		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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380

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Printed: 16:49 08/25/1998

*Good*  
177

**Pacific Environmental Services**

Project Number: 46323  
 Sample File: FX981

Method 8260 VOST  
 Sample ID: T-V-3-3-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-18A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.217		8.11		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	10.38		
Tetrachloroethene	0.028	J	8.95		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.071		10.70		0.05
m-/p-Xylene	0.378		10.94		0.10
o-Xylene	0.124		11.66		0.05
Styrene	0.037	J	11.73		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>2</sub>		IS 4	15.78		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: FX981

Method 8260 VOST

Sample ID: T-V-3-3-A,B T/TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICA1F821

TLI ID: 214-27-18A,B

Date Analyzed: 08/24/98

Surrogate Summary

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.210	5.19	1	84
Toluene-d <sub>8</sub>	0.265	8.02	2	106
4-Bromofluorobenzene	0.268	12.69	2	107

Reviewed by

*PAB*

Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Printed: 16:49 08/25/1998

382

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Pacific Environmental Services

Project Number: 46323  
Sample File: FX981

Method 8260 VOST  
Sample ID: T-V-3-3-A,B T/TC

Client Project: R012.001  
FLI ID: 214-27-18A,B

Date Received: 07/29/98

Response File: ICALF824

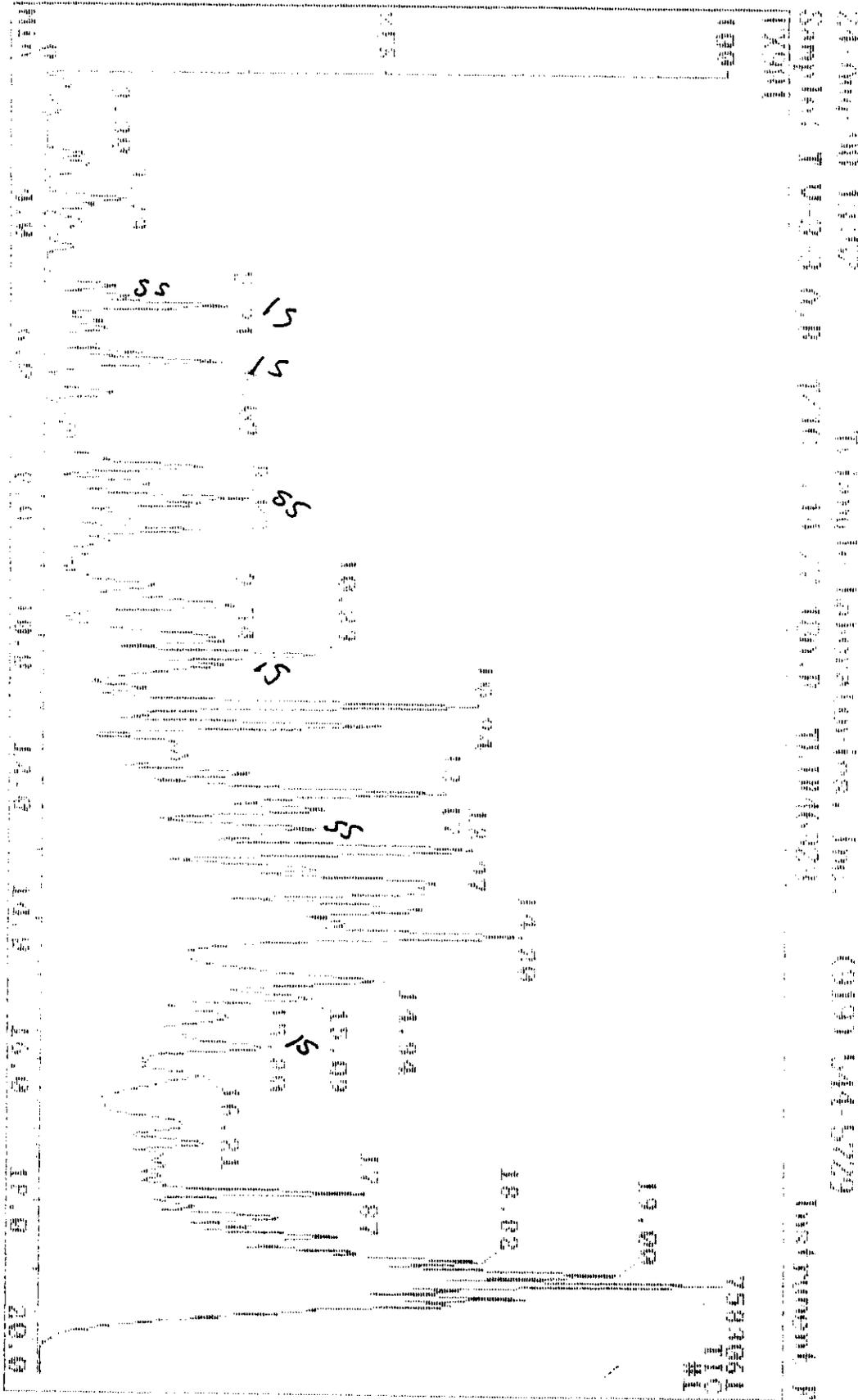
Date Analyzed: 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.015	J	3.63		0.25
n-Hexane	0.142	J	3.90		0.25
1,2-Epoxybutane		U		0.023	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.08		
Ethyl acrylate		U		0.006	0.25

Reviewed by PAR Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range







No.	MAT	FOR	REV	Delta	Amount	Flags	RF	QM Name
1	100	67	25	2	4552064	00	5.1311	113 Paraethylmonobenzene
2	100	60	21	3	4277304	00	6.1011	114 1,3-DUT monobenzene
3	93	67	15	1	3195160	00	10.3311	117 CHLORACETAZOLE
4	100	60	25	1	1547456	00	15.1312	152 1,3-DUT monobenzene
5	100	66	15	0	1457257	00	5.1021	115 Diethylamylamine
6	100	61	24	0	3231332	00	8.1021	98 Ethylamine
7	70	14	68	1	1115221	00	17.1021	95 4-Ethylamylamine
8	70	14	68	1	3154123	00	17.1021	39 1,3-DUT benzene
9	0	0	0	4	0	00	0.1030	106 Methylamine
10	100	60	35	4	51176	00	5.1030	71 MPPF
11	100	96	26	2	1705504	00	1.1030	77 methanol
12	100	96	26	2	1705504	00	1.1030	77 methanol
13	100	96	26	2	1705504	00	1.1030	77 methanol
14	100	96	26	2	1705504	00	1.1030	77 methanol
15	100	96	26	2	1705504	00	1.1030	77 methanol

~~GA RUB~~

~~GA RUB~~

~~GA RUB~~

~~GA RUB~~

24-Aug-98 13:52

Triangle Laboratories, Inc.

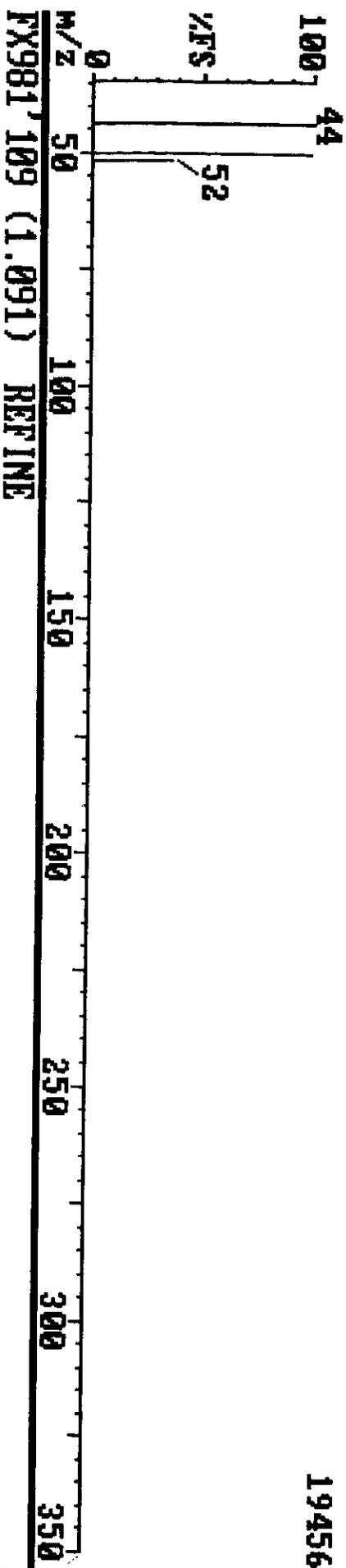
(919) 544-5729

Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL1#46323

Instrument F

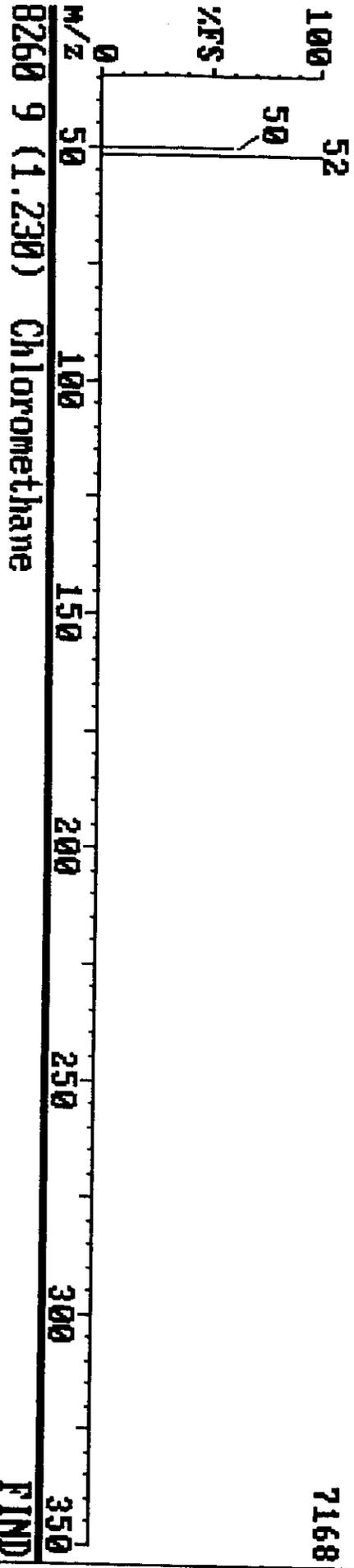
FX981 109 (1.090)

19456



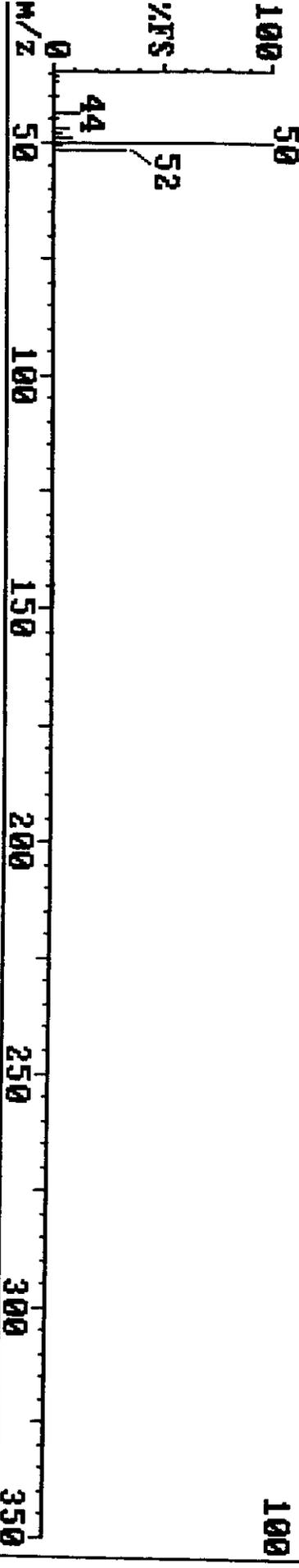
FX981 109 (1.091) REFINE

7168



8260 9 (1.230) Chloromethane

FIND 100



24-Aug-98 13:52

Triangle Laboratories, Inc.

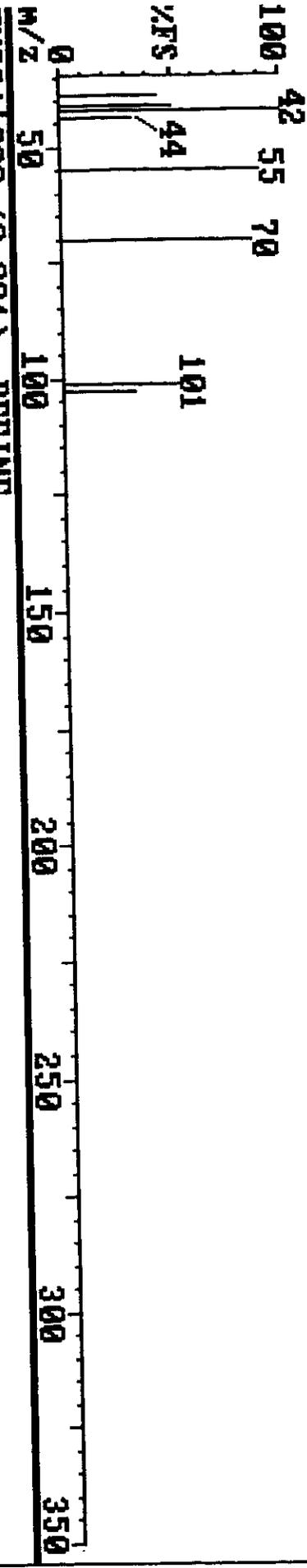
(919) 544-5729

Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL1#46323

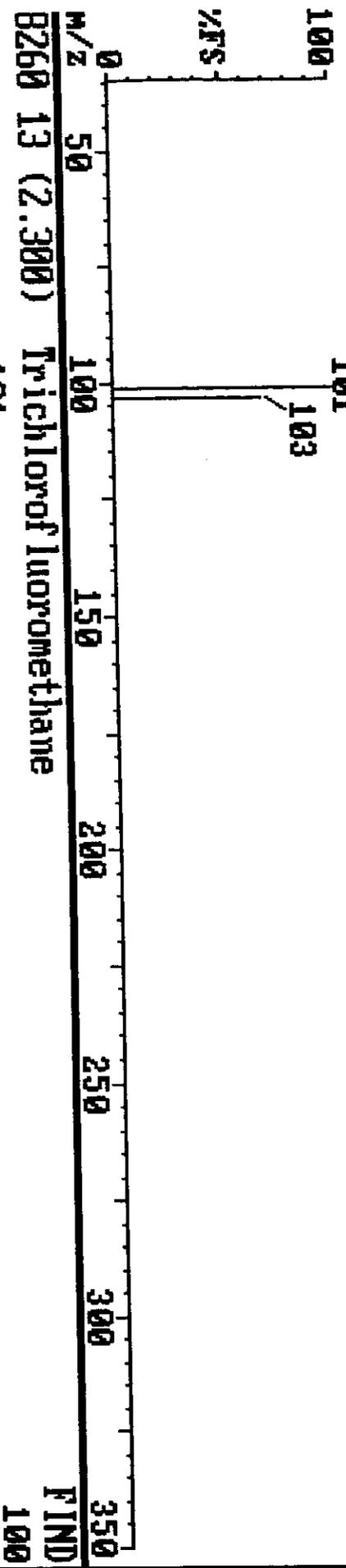
Instrument F

FX981 208 (2.080)

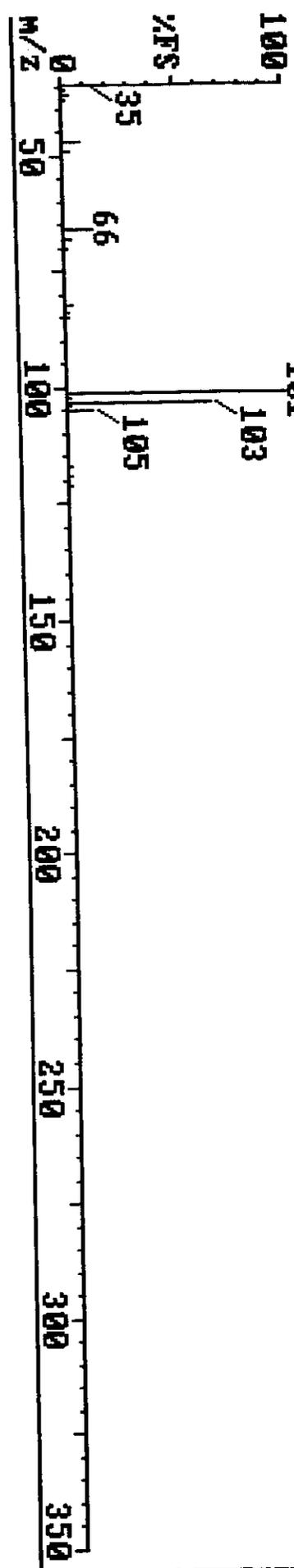
26368



13632



FIND 100





24-Aug-98 13:52

Triangle Laboratories, Inc.

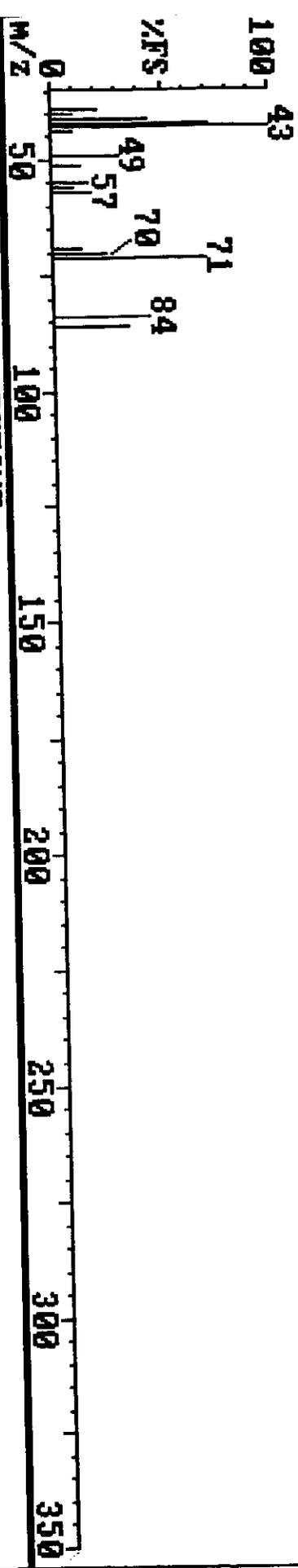
(919) 544-5729

Instrument F

Sample: T-U-3-3-A, B T/TIC 214-27-18A, B TL1#46323

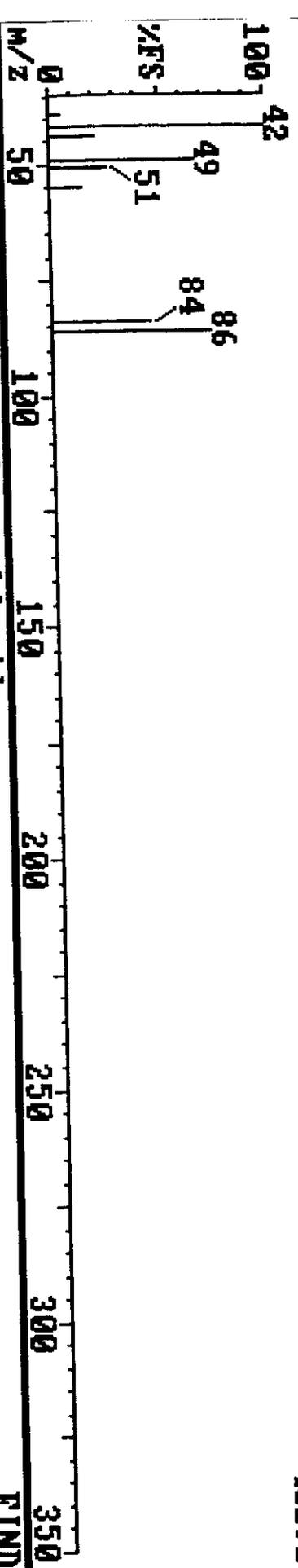
FY981 328 (3.280)

84992



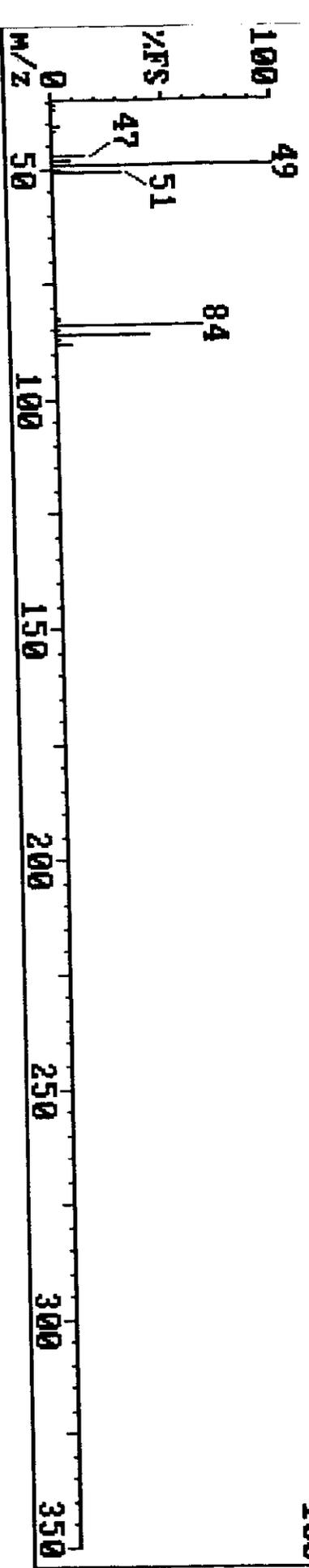
FY981 328 (3.281) REFINE

40192



8260 15 (3.550) Methylene chloride

FIND 100



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400	400			400
500	500			500
600	600			600
700	700			700
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Account	Balance	Debit	Credit	Balance
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1084	1000			1000
1085	1000			1000
1086	1000			1000
1087	1000			1000
1088	1000			1000
1089	1000			1000
1090	1000			1000
1091	1000			1000
1092	1000			1000
1093	1000			1000
1094	1000			1000
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1098	1000			1000
1099	1000			1000
1100	1000			1000





14-Aug-98 13:52

Triangle Laboratories, Inc.

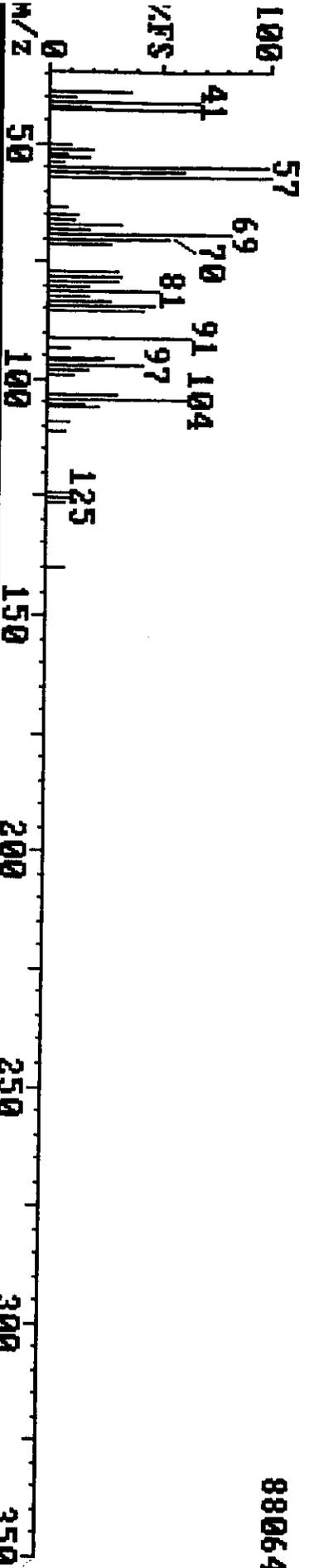
(919) 544-5729

Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL#46323

Instrument F

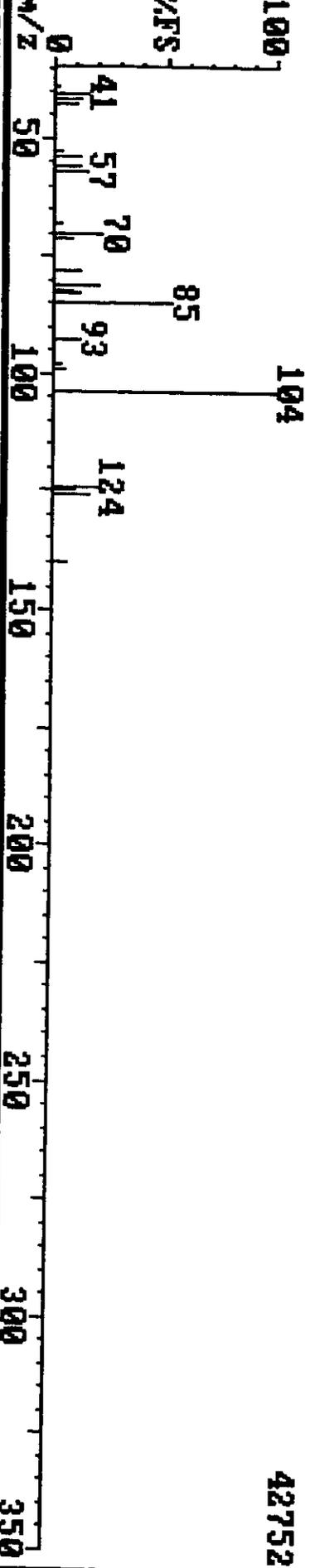
FX981 1173 (11.731)

88064



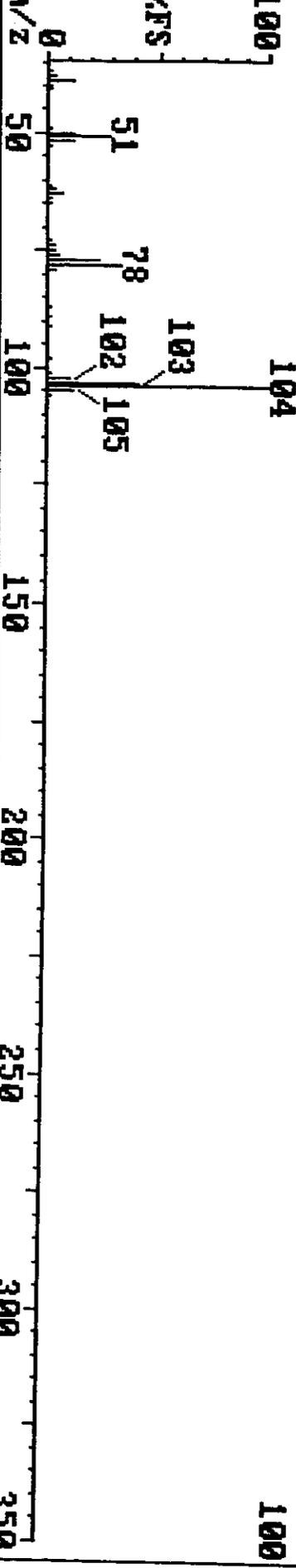
FX981 1173 (11.731) REFINE

42752



8260 44 (12.371) Styrene

FIND  
100





NO.	DESCRIPTION	AMOUNT	CHECK NO.	DATE	BALANCE
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100	...	...	...	...	...

**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: HW562**

**Method 8260 VOST**  
**Sample ID: T-V-4-1-A T**

**Client Project: R012.001**  
**TLI ID: 214-27-20A**

**Date Received: 07/29/98**

**Response File: ICALH809**

**Date Analyzed : 08/09/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.03		
Chloromethane	0.010	BJ	0.97		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.010	BJ	1.48		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.009	J	1.91		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone	0.151		2.74		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.038	BJ	3.06		0.05
Acrylonitrile		U		0.007	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone	0.051		4.51		0.05
Chloroform	0.006	J	4.75		0.05
1,1,1-Trichloroethane	0.012	J	4.84		0.05
1,4-Difluorobenzene		IS 2	5.75		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.091	B	5.22		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene	0.001	J	5.99		0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
 801 Capitola Drive • Durham, North Carolina 27713  
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Savar v3.7  
 Printed: 16:11 08/10/1998

**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: HW562**

**Method 8260 VOST**  
**Sample ID: T-V-4-1-A T**

**Client Project: R012.001**  
**TLI ID: 214-27-20A**

**Date Received: 07/29/98**

**Response File: ICA1H809**

**Date Analyzed : 08/09/98**

<b>Analyte</b>	<b>Amount</b> ug	<b>FLAG</b>	<b>RT</b>	<b>Det. Limit</b> ug	<b>Quan. Limit</b> ug
Methyl methacrylate		U		0.003	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.002	0.05
Toluene	0.133	B	7.70		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	9.94		
Tetrachloroethene	0.016	J	8.53		0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.018	J	10.28		0.05
m-/p-Xylene	0.056	J	10.52		0.10
o-Xylene	0.024	J	11.23		0.05
Styrene	0.025	BJ	11.28		0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.07		
Cumene		U		0.001	0.05
1,1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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402

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Printed: 16:11 08/10/1998

193

Pacific Environmental Services

Project Number: 46323  
Sample File: HW562

Method 8260 VOST  
Sample ID: T-V-4-1-A T

Client Project: R012.001  
TLI ID: 214-27-20A

Date Received: 07/29/98  
Date Analyzed : 08/09/98

Response File: ICALH809

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.262	4.91	1	105
Toluene-d <sub>8</sub>	0.282	7.60	2	113
4-Bromofluorobenzene	0.384	12.24	2	154

Reviewed by PAR Date 8/20/98 *1 @ AUB 8/10/98*

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: HW562

Method 8260 VOST

Sample ID: T-V-4-1-A T

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALH809

TLI ID: 214-27-20A

Date Analyzed: 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.03		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.114	J	3.41		0.25
n-Hexane	0.034	J	3.66		0.25
1,2-Epoxybutane		U		0.055	0.25
Iso-Octane	0.012	J	5.38		0.25
1,4-Difluorobenzene		IS 2	5.75		
Ethyl acrylate		U		0.001	0.25

Reviewed by                     GWS                     Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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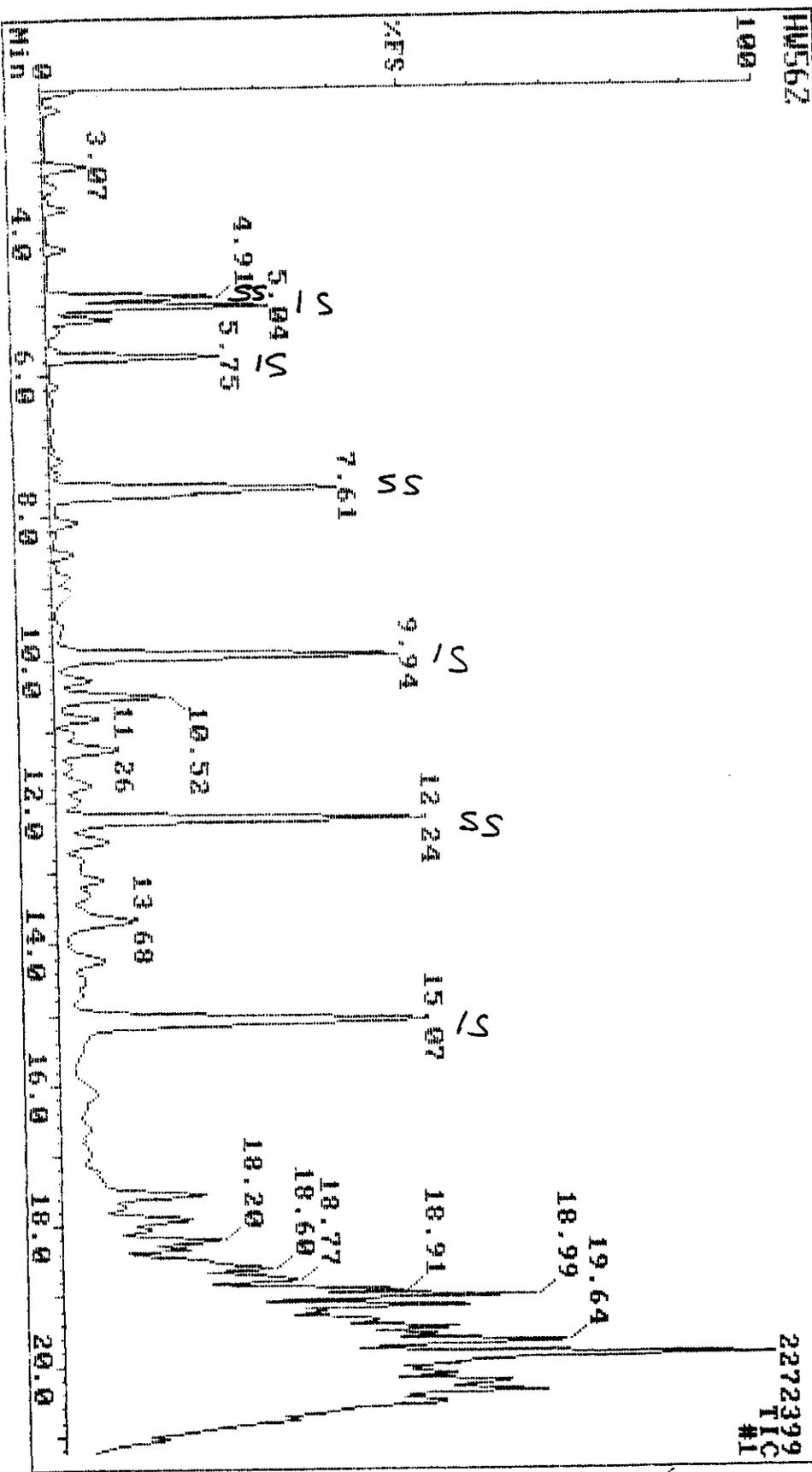
Savar v3.7

Printed: 16:48 08/10/1998

404

201

08-09-98 18:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
 Sample: T-U-4-1-A T 214-27-20A TL#46323



Data Review: *PaB*  
 Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	84	99	-6	1824832	bb	5.03	168 Pentafluorobenzene
2	100	97	98	-1	1672116	bv	5.75	114 1,4-Difluorobenzene
3	100	94	95	4	3173136	bv	9.94	117 Chlorobenzene-d5
4	100	75	99	-4	2324848	bv	15.07	152 1,4-Dichlorobenzene-d4
5	100	94	100	1	1018220	bv	4.91	113 Dibromofluoromethane
6	100	91	98	-1	2642836	bv	7.60	98 Toluene-d8
7	96	89	94	7	1931123	vv	12.24	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	85 Dichlorodifluoromethane
9	100	82	82	-1	26264	bv	0.97	50 Chloromethane
10	0	0	0	0	0		0.00	62 Vinyl Chloride
11	100	78	91	0	30116	bv	1.48	94 Bromomethane
12	0	0	0	0	0		0.00	64 Chloroethane
13	100	77	91	0	70572	bb	1.91	101 Trichlorofluoromethane
14	0	0	0	0	0		0.00	96 1,1-Dichloroethene
15	0	0	0	0	0		0.00	142 Iodomethane
16	0	0	0	0	0		0.00	76 Carbon disulfide
17	85	74	93	8	55188	bv	2.74	43 Acetone
18	0	0	0	0	0		0.00	41 Allyl chloride
19	81	58	71	0	97924	bv	3.06	84 Methylene chloride
20	<del>9</del>	<del>1</del>	<del>16</del>	<del>5</del>	<del>368</del>	<del>bc</del>	<del>3.35</del>	53 Acrylonitrile
21	0	0	0	0	0		0.00	96 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.00	63 1,1-Dichloroethane
23	0	0	0	0	0		0.00	45 Vinyl acetate
24	0	0	0	0	0		0.00	77 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethene
26	100	87	87	2	23632	bv	4.51	43 2-Butanone
27	100	82	92	0	32932	bb	4.75	85 Chloroform
28	0	0	0	0	0		0.00	128 Bromochloromethane
29	81	58	78	-1	65932	bb	4.84	97 1,1,1-Trichloroethane
30	0	0	0	0	0		0.00	117 Carbon tetrachloride
31	0	0	0	0	0		0.00	75 1,1-Dichloropropene
32	100	96	98	0	711096	bv	5.22	78 Benzene
33	0	0	0	0	0		0.00	62 1,2-Dichloroethane
34	81	66	66	-1	1604	bb	5.99	130 Trichloroethene
35	0	0	0	0	0		0.00	63 1,2-Dichloropropane
36	0	0	0	0	0		0.00	93 Dibromomethane
37	0	0	0	0	0		0.00	41 Methyl methacrylate
38	0	0	0	0	0		0.00	83 Bromodichloromethane
39	0	0	0	0	0		0.00	75 cis-1,3-Dichloropropene
40	<del>50</del>	<del>2</del>	<del>73</del>	<del>1</del>	<del>38864</del>	<del>bv</del>	<del>7.61</del>	43 4-Methyl-2-pentanone
41	100	94	99	0	900812	bv	7.70	92 Toluene
42	0	0	0	0	0		0.00	75 trans-1,3-Dichloropropene
43	0	0	0	0	0		0.00	97 1,1,2-Trichloroethane
44	62	51	51	-1	9220	A	8.43	69 Ethyl methacrylate
45	100	84	96	-2	75744	bb	8.53	164 Tetrachloroethene
46	0	0	0	0	0		0.00	76 1,3-Dichloropropane
47	<del>34</del>	<del>15</del>	<del>50</del>	<del>11</del>	<del>52172</del>	<del>vv</del>	<del>8.86</del>	43 2-Hexanone
48	0	0	0	0	0		0.00	129 Dibromochloromethane
49	0	0	0	0	0		0.00	107 1,2-Dibromoethane
50	0	0	0	0	0		0.00	112 Chlorobenzene

Data Review: *FAB*  
 Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
51	0	0	0	0	0		0.00	131 1,1,1,2-Tetrachloroethan
52	100	80	93	0	125776	bv	10.28	106 Ethylbenzene
53	100	83	93	2	480652	vv	10.52	106 m-/p-Xylene
54	100	82	87	1	194588	bv	11.23	106 o-Xylene
55	98	77	88	1	326848	bb	11.28	104 Styrene
56	0	0	0	0	0		0.00	173 Bromoform
57	0	0	0	0	0		0.00	105 Cumene
58	0	0	0	0	0		0.00	83 1,1,2,2-Tetrachloroethan
59	0	0	0	0	0		0.00	156 Bromobenzene
60	0	0	0	0	0		0.00	75 1,2,3-Trichloropropane
61	61	38	72	6	37644	bb	12.87	120 n-Propylbenzene
62	0	0	0	0	0		0.00	75 trans-1,4-Dichloro-2-but
63	0	0	0	0	0		0.00	126 2-Chlorotoluene
64	0	0	0	0	0		0.00	126 4-Chlorotoluene
65	61	71	92	-17	512200	bv	13.11	105 1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119 tert-Butylbenzene
67	96	69	93	2	447208	bv	14.23	105 1,2,4-Trimethylbenzene
68	46	12	61	-1	53228	A	14.72	105 sec-Butylbenzene
69	71	41	75	0	209044	bv	15.32	119 p-Cymene
70	0	0	0	0	0		0.00	146 1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91 Benzyl chloride
73	61	35	72	4	110413	vv	16.85	91 n-Butylbenzene
74	0	0	0	0	0		0.00	146 1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75 1,2-Dibromo-3-chloroprop
76	0	0	0	0	0		0.00	180 1,2,4-Trichlorobenzene
77	0	0	0	0	0		0.00	225 Hexachlorobutadiene
78	0	0	0	0	0		0.00	128 Naphthalene
79	0	0	0	0	0		0.00	180 1,2,3-Trichlorobenzene

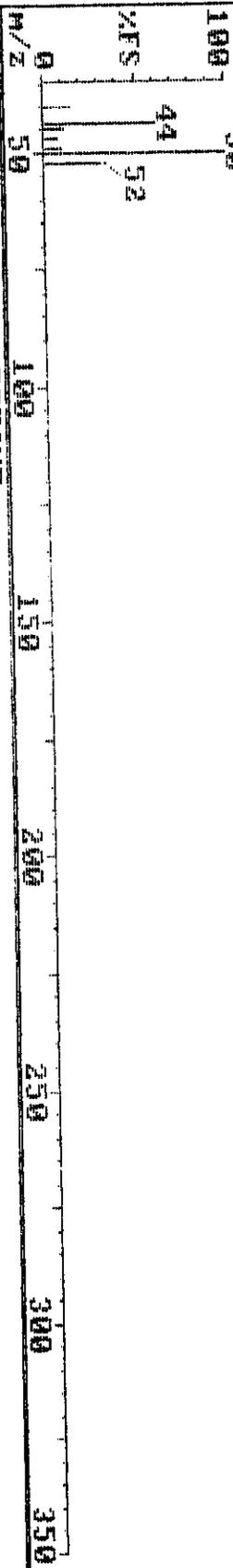
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	84	99	-1	1824832	bb	5.03	168	Pentafluorobenzene
2	100	97	98	0	1672116	bv	5.75	114	1,4-Difluorobenzene
3	100	94	95	2	3173136	bv	9.94	117	Chlorobenzene-d5
4	100	75	99	5	2324848	bv	15.07	152	1,4-Dichlorobenzene-d4
5	100	94	100	2	1018220	bv	4.91	113	Dibromofluoromethane
6	100	91	98	-3	2642836	bv	7.60	98	Toluene-d8
7	100	89	94	5	1931123	vv	12.24	95	4-Bromofluorobenzene
8	<del>75</del>	<del>43</del>	<del>77</del>	<del>2</del>	<del>55292</del>	<del>A</del>	<del>1.08</del>	<del>39</del>	<del>1,3-Butadiene</del>
9	0	0	0	0	0		0.00	106	Vinyl bromide
10	100	87	90	2	103404	bb	3.41	73	MTBE
11	100	98	98	1	169304	bb	3.66	57	n-Hexane
12	<del>62</del>	<del>44</del>	<del>57</del>	<del>-2</del>	<del>33192</del>	<del>bb</del>	<del>4.22</del>	<del>42</del>	<del>1,2-Epoxybutane</del>
13	100	84	87	0	137300	bv	5.38	57	Iso-Octane
14	<del>40</del>	<del>33</del>	<del>55</del>	<del>15</del>	<del>48472</del>	<del>bb</del>	<del>6.17</del>	<del>55</del>	<del>Ethyl acrylate</del>

Data Review: *PaB*  
 Date: 8/10/98

00-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-20A TL1846323

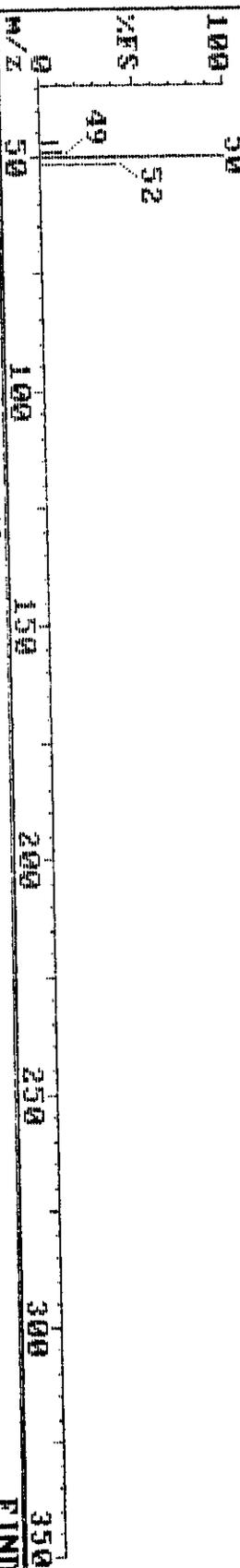
HW562 97 (0.970)

4864



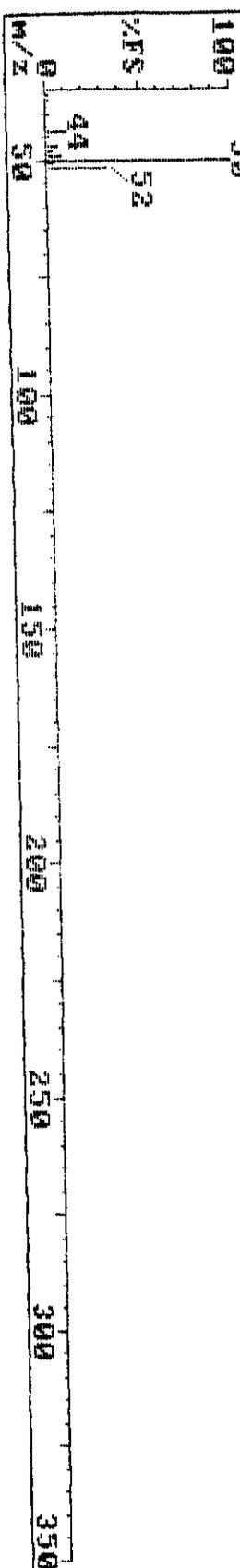
HW562 97 (0.971) REFINE

4288



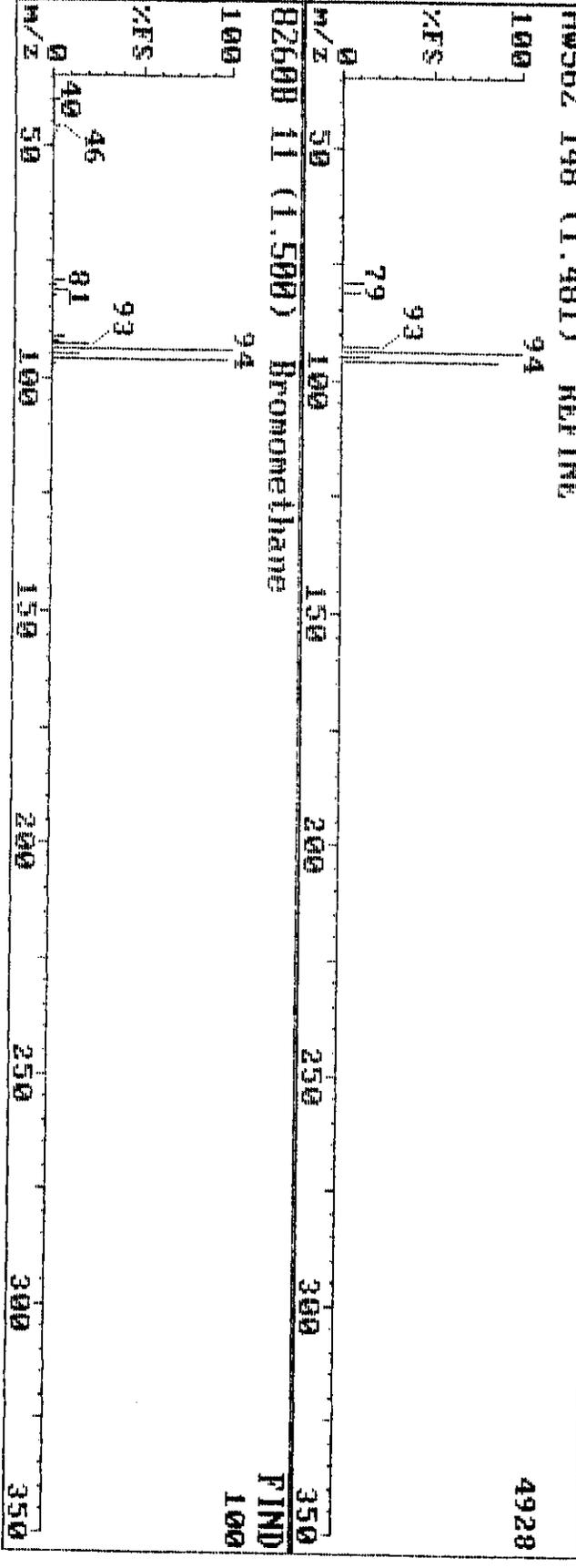
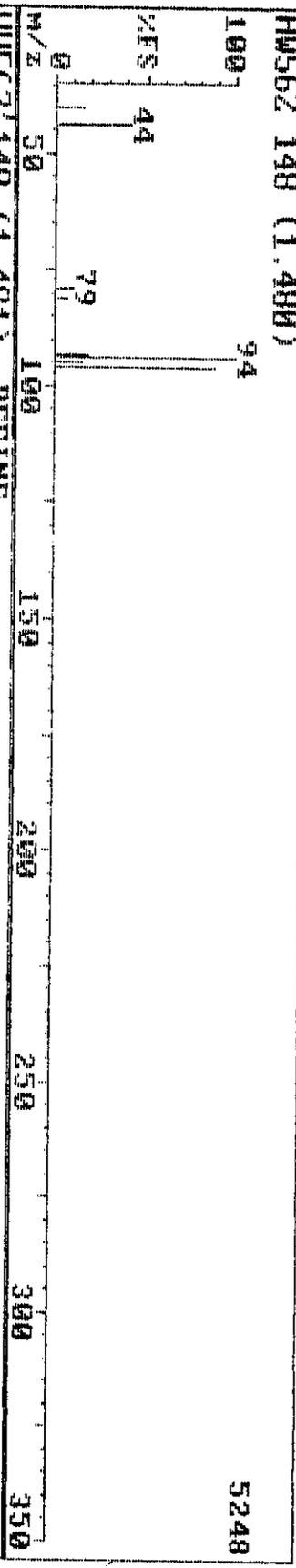
02600 9 (0.990) Chloromethane

FIND 100



00-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-1-A T 214-27-20A TL#46323 Instrument H



08-09-98 10:37

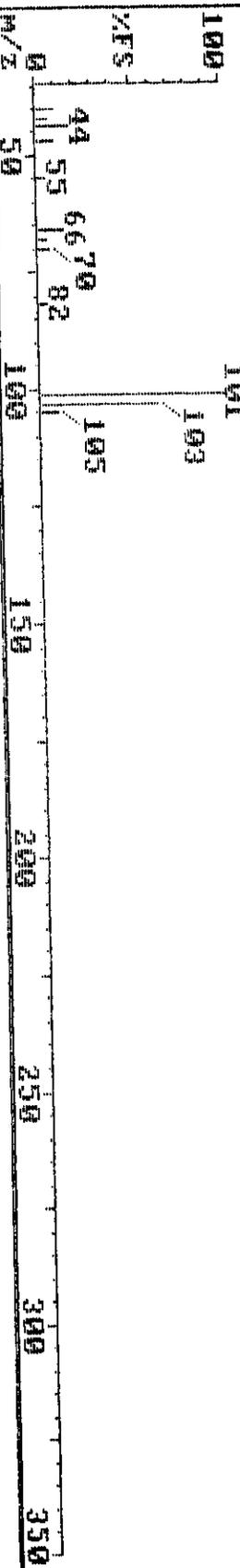
Triangle Laboratories, Inc. (919) 544-5729

Instrument H

Sample: T-U-4-1-A T 214-27-20A TL1446323

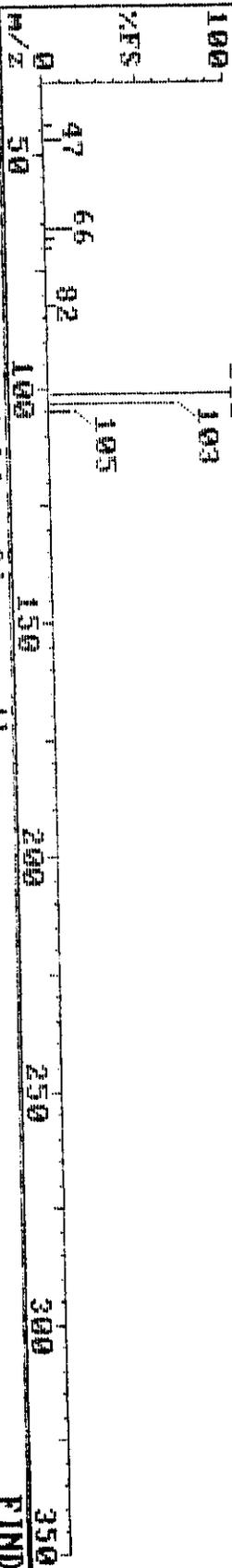
HM562 191 (1.910)

9216



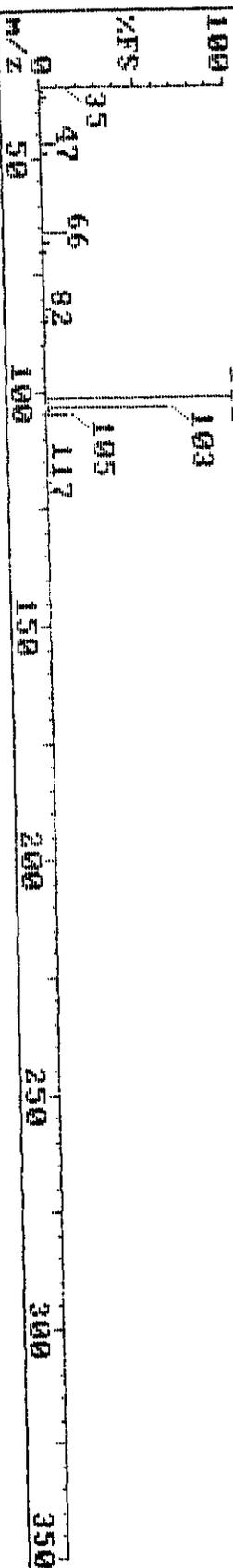
HM562 191 (1.911) REFINE

8512



02600 13 (1.930) Trichlorofluoromethane

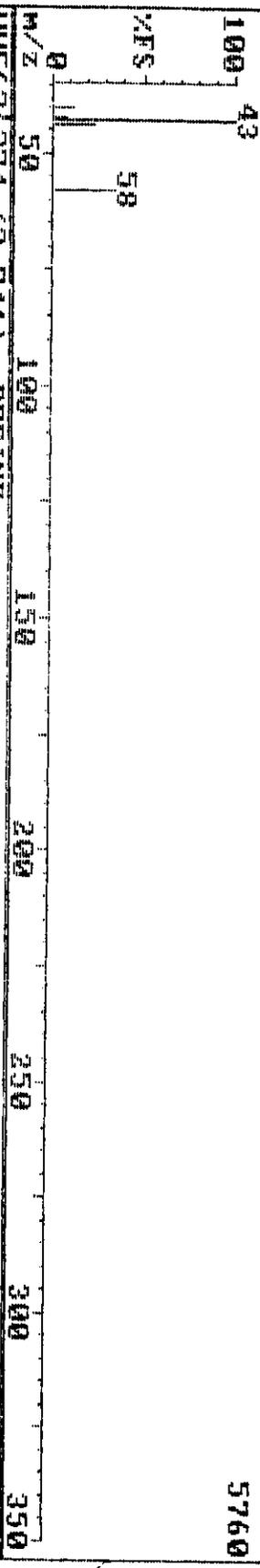
FIND 100



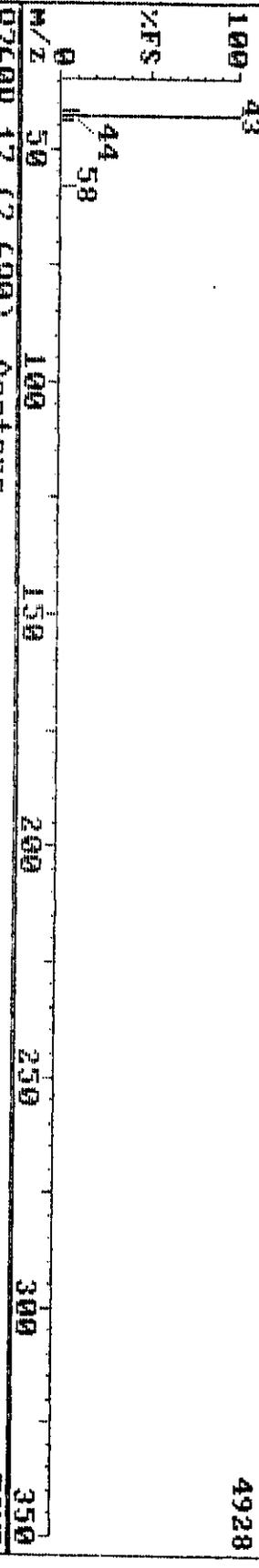
08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-A T 214-27-28A TL1#46323

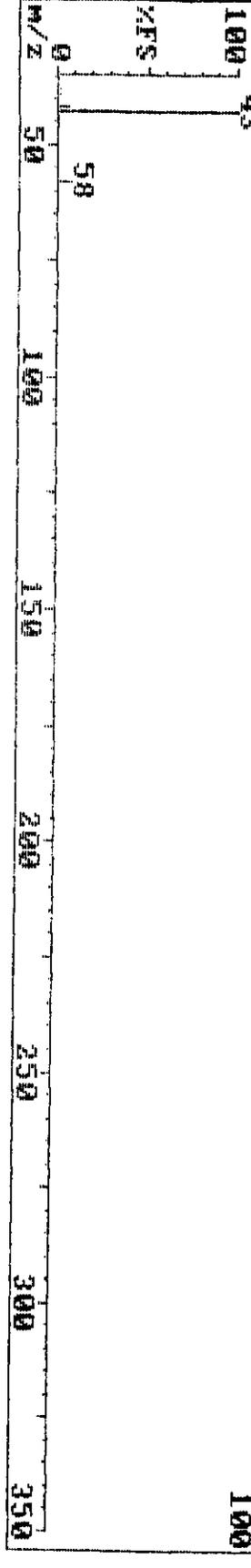
HM562 274 (2.740)



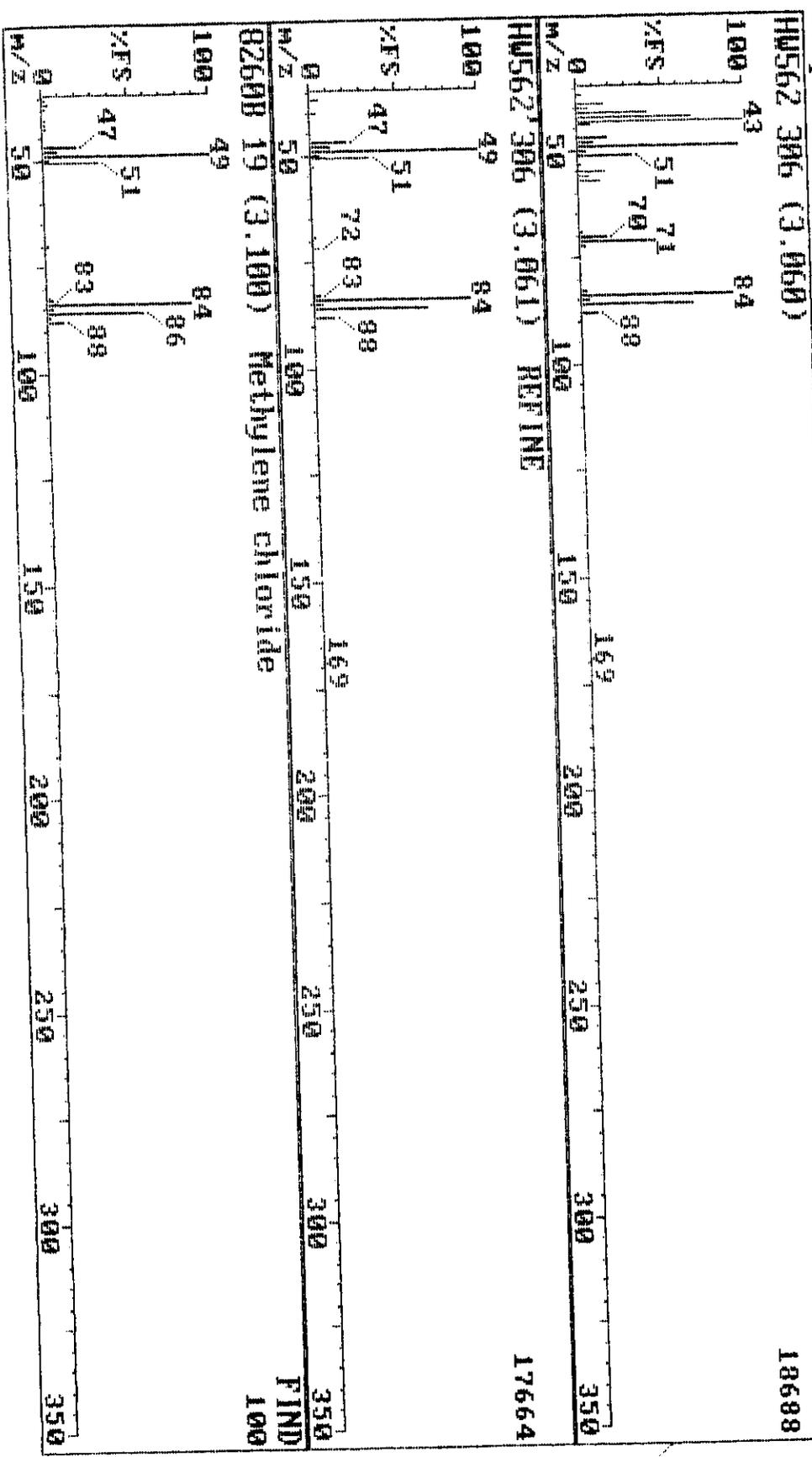
HM562 274 (2.741) REFINE



8260B 17 (2.690) Acetone



08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-20A TL1W46323



08-09-98 10:37

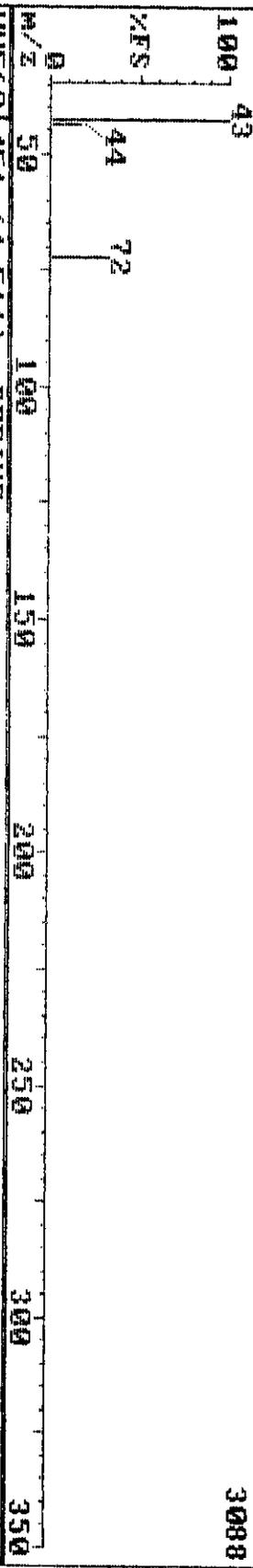
Triangle Laboratories, Inc.

(919) 544-5729

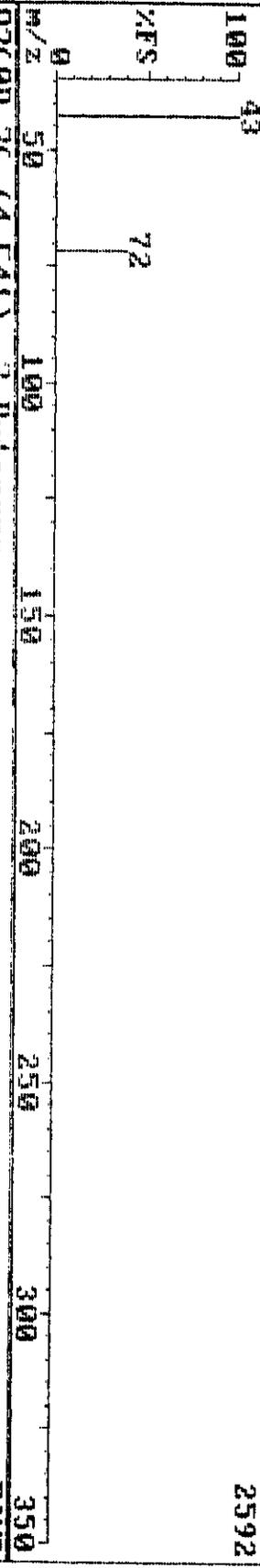
Sample: T-U-4-1-A T 214-27-28A TL1#46323

Instrument H

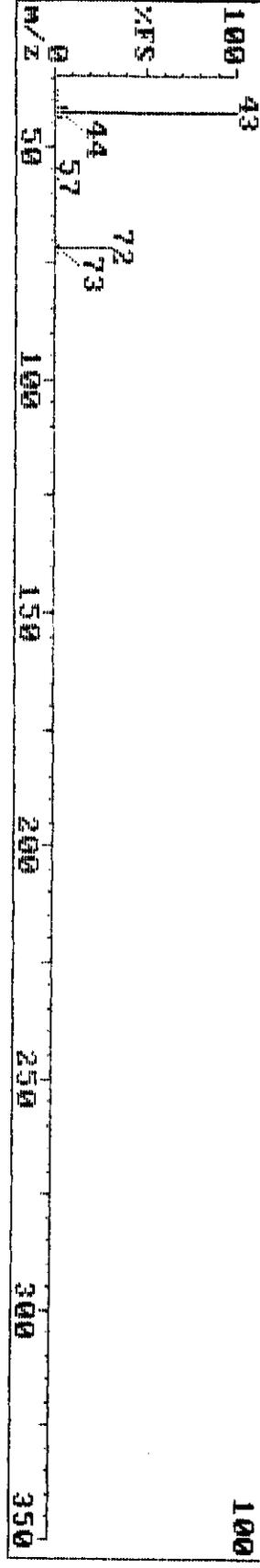
HM562 451 (4.510)



HM562 451 (4.511) REFINE

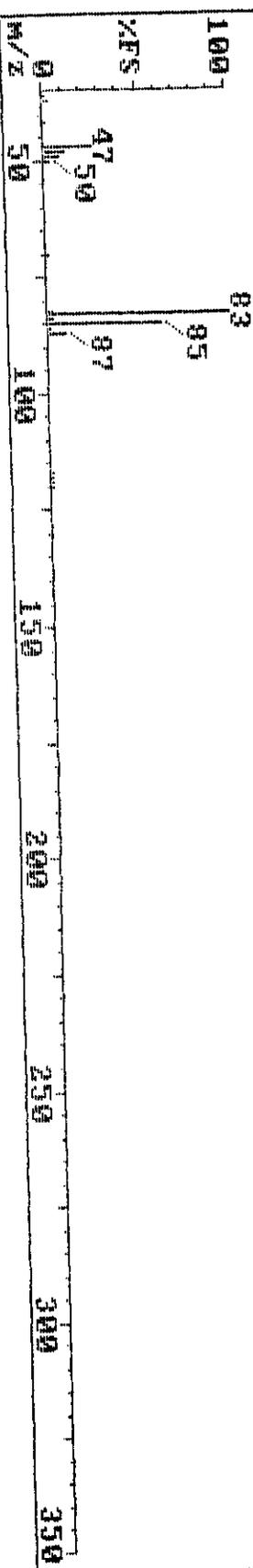
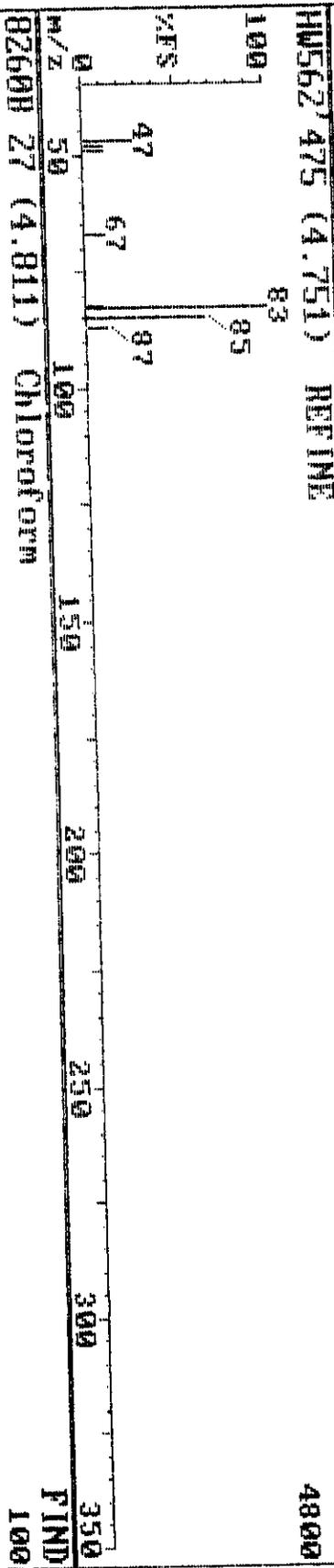
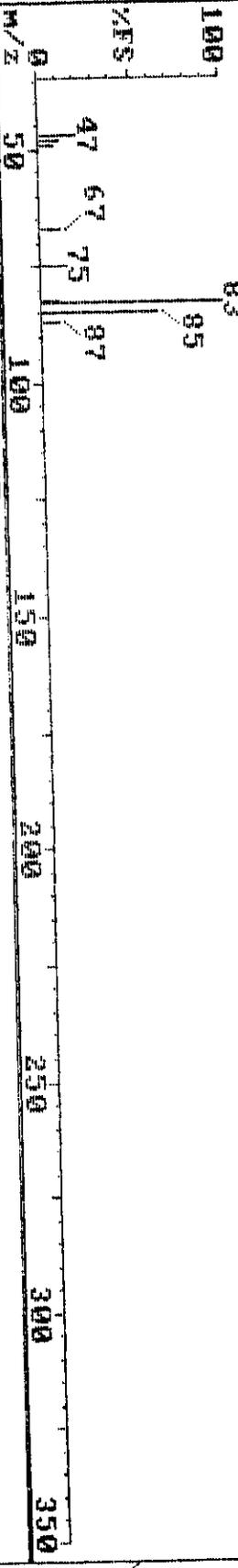


B260B 26 (4.541) 2-Butanone



08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-20A TL#46323

HM562 475 (4.751) 4992



08-09-98 10:37

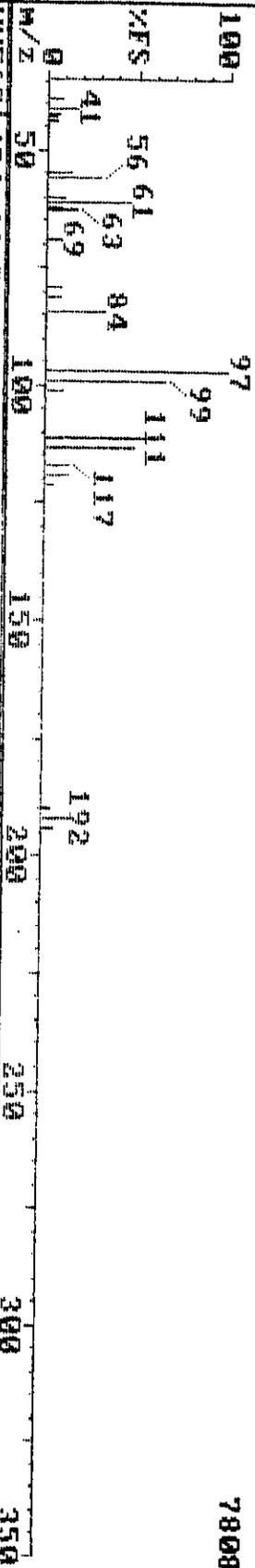
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-1-A T 214-27-200 TL1#46323

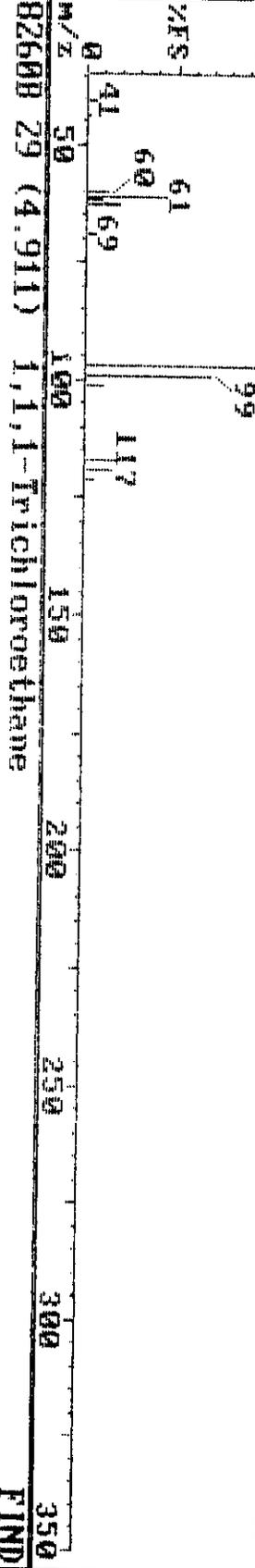
Instrument H

HW562 484 (4.841)



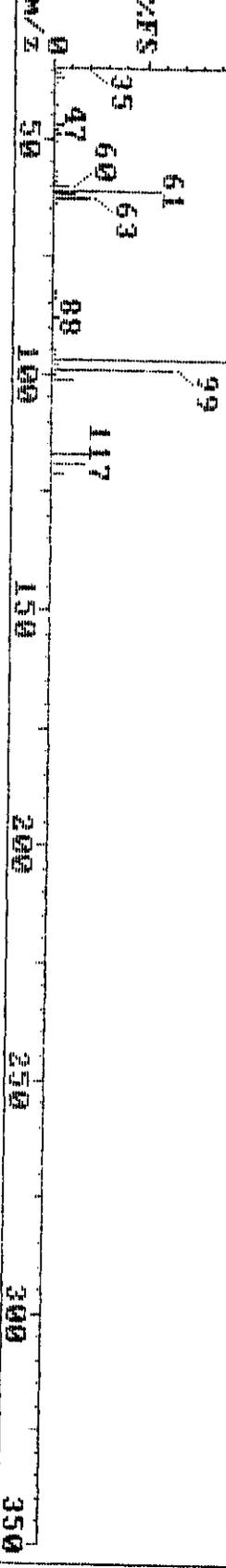
HW562 484 (4.841) REFINE

7360



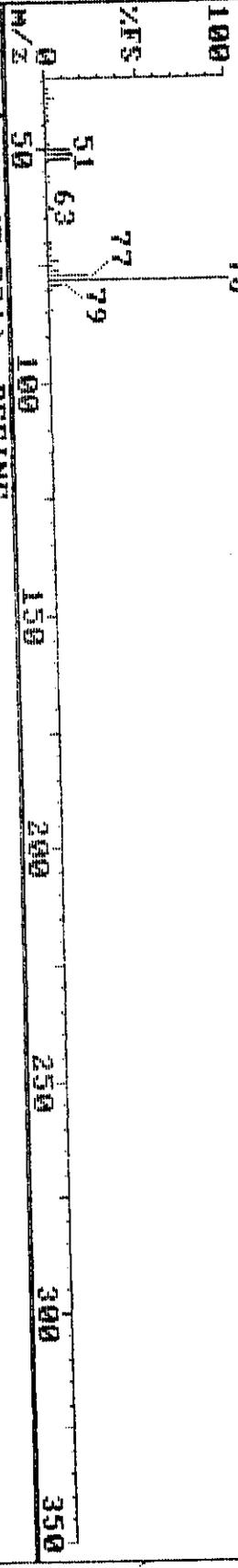
B260B 29 (4.911) 1,1,1-Trichloroethane

FIND 100

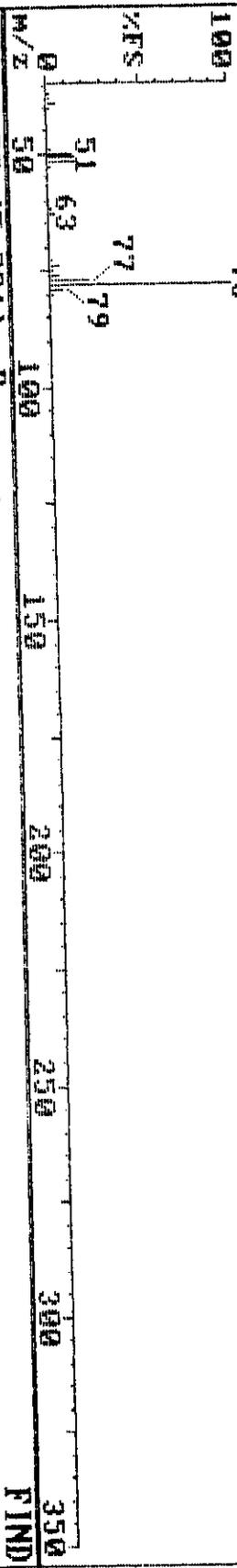


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-20A TL1446323

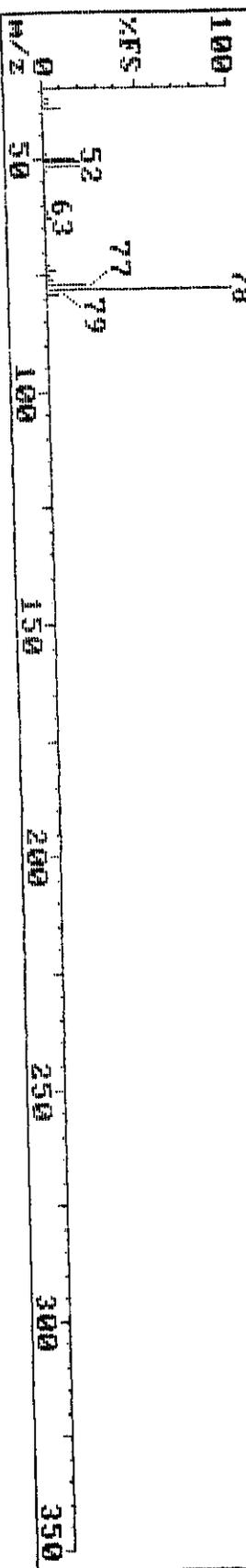
HW562 522 (5.221) 104448



HW562 522 (5.221) REFINE 99328



8260B 32 (5.291) Benzene FIND 100



08-09-98 10:37

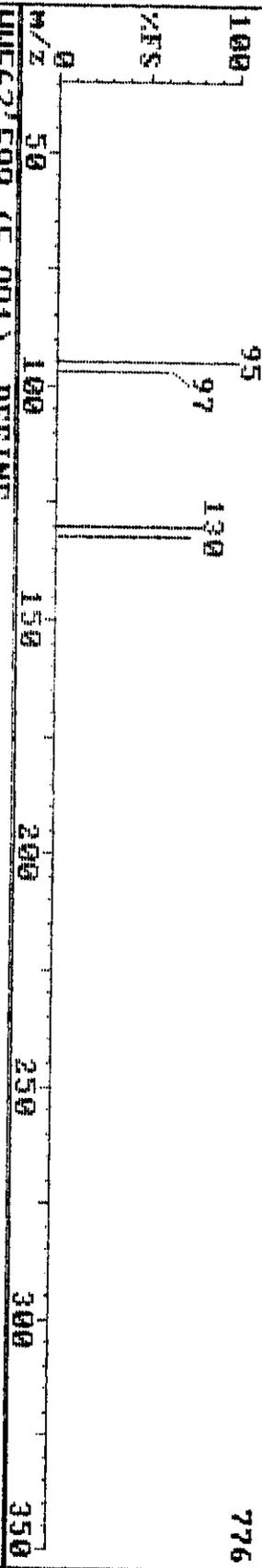
Triangle Laboratories, Inc.

(919) 544-5729

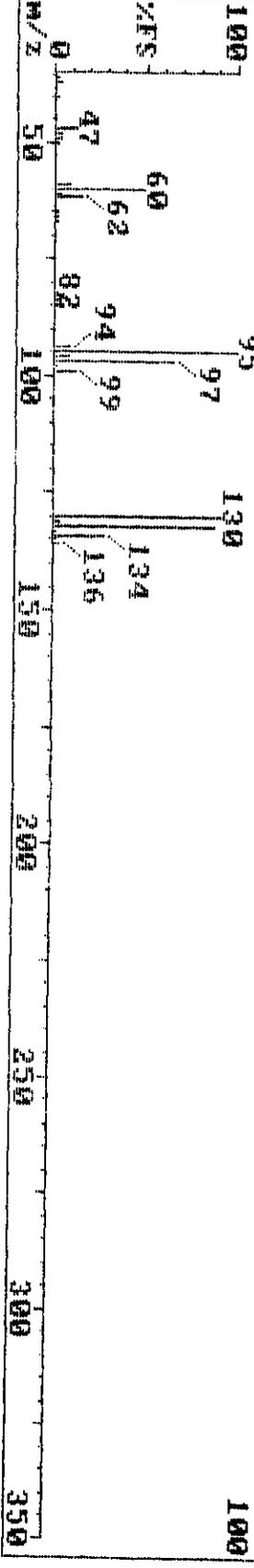
Sample: T-U-4-1-A T 214-27-200 TL#46323

Instrument H

HMW562 599 (5.991)

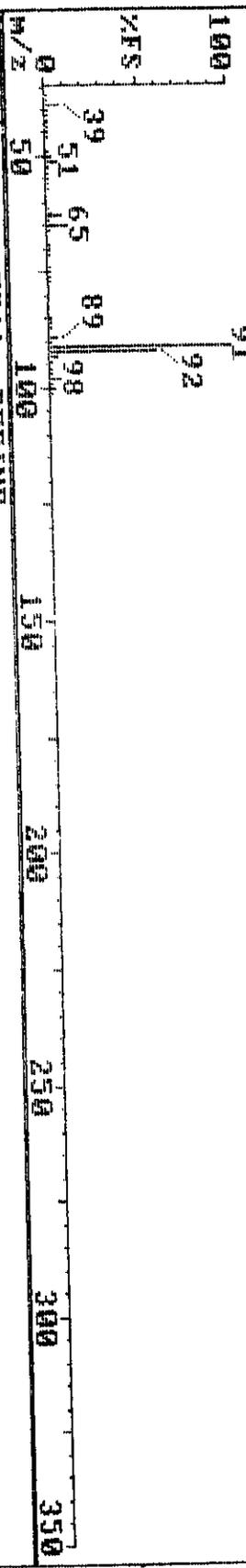


82608 34 (6.081) Trichloroethylene

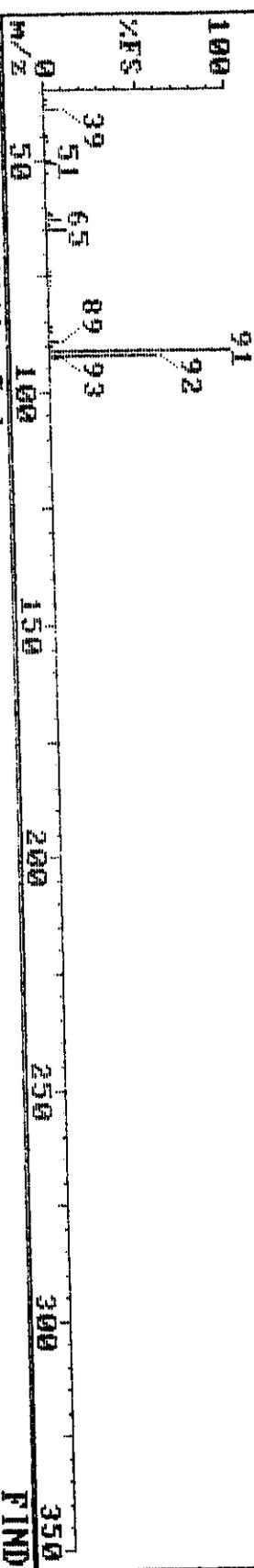


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-200 TL1#46323

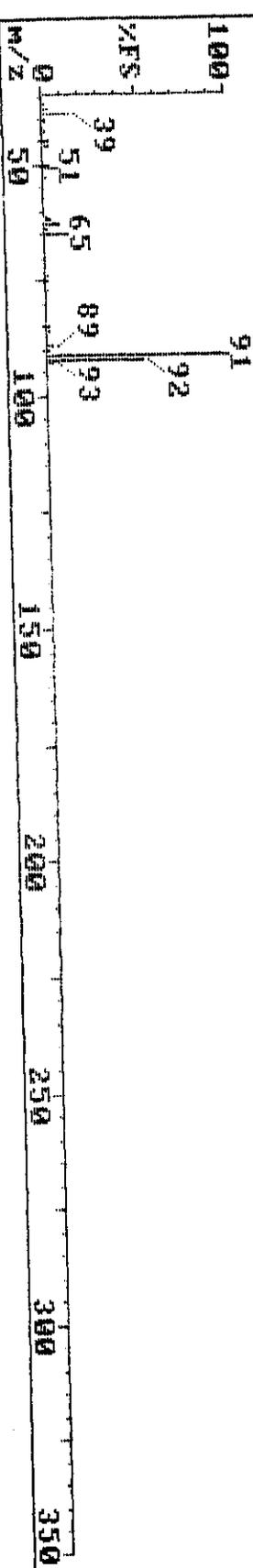
HM562 770 (7.701) 182272



HM562 770 (7.701) REFINE 162816



HM562 770 (7.701) REFINE 162816



B260R 41 (7.811) Toluene FIND 100

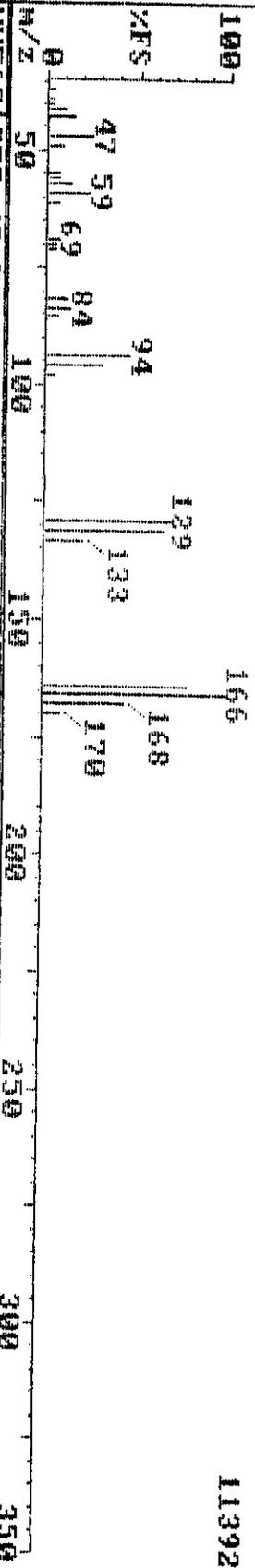
08-09-98 10:37

Triangle Laboratories, Inc. (919) 544-5729

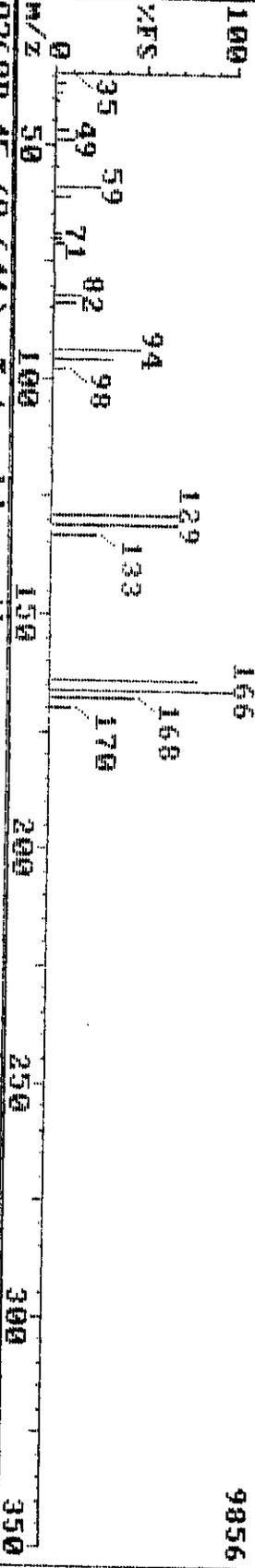
Sample: T-U-4-1-A T 214-27-200 TL#46323

Instrument H

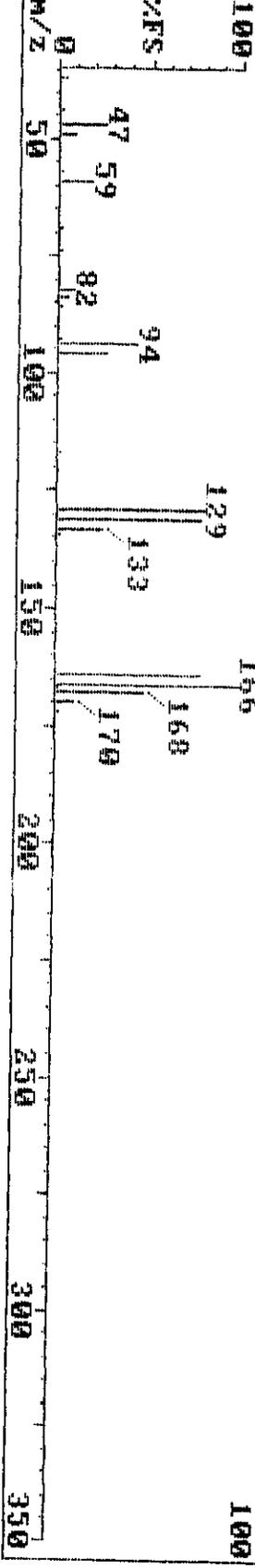
HM562 853 (8.531)



HM562 853 (8.531) REFINE



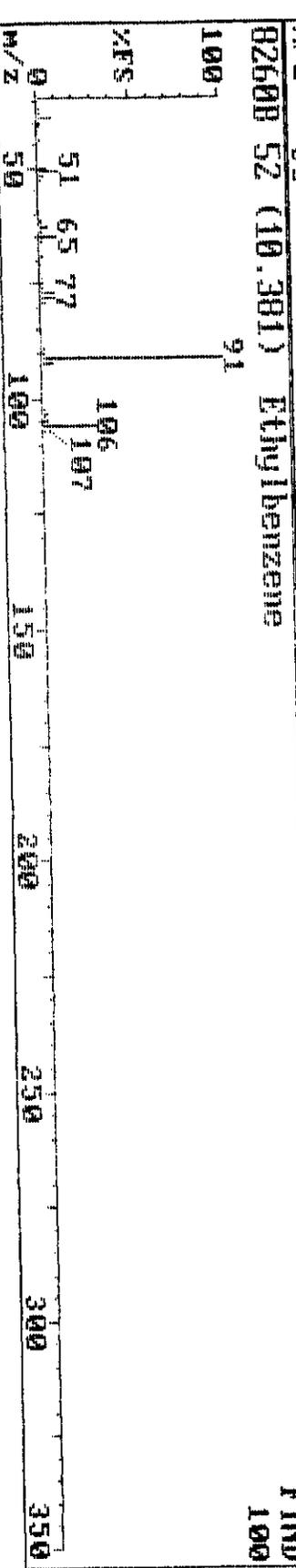
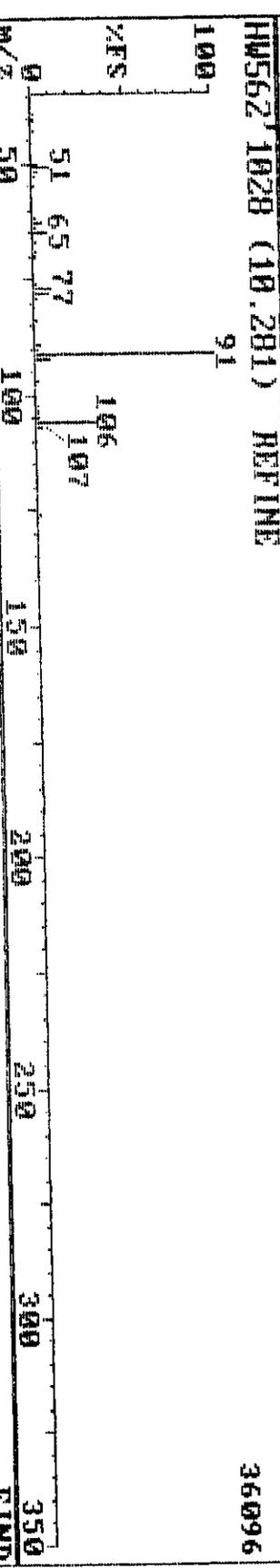
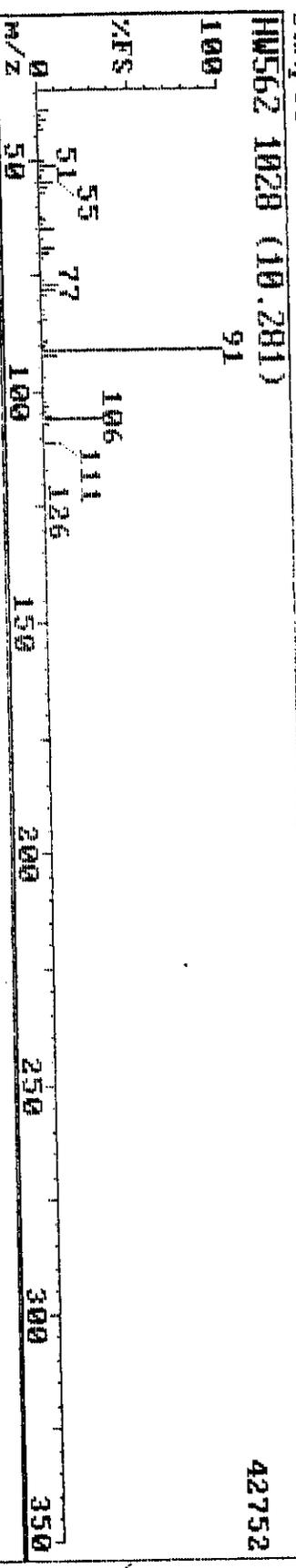
82608 45 (8.641) Tetrachloroethene



FIND

100

08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-200 TL146323



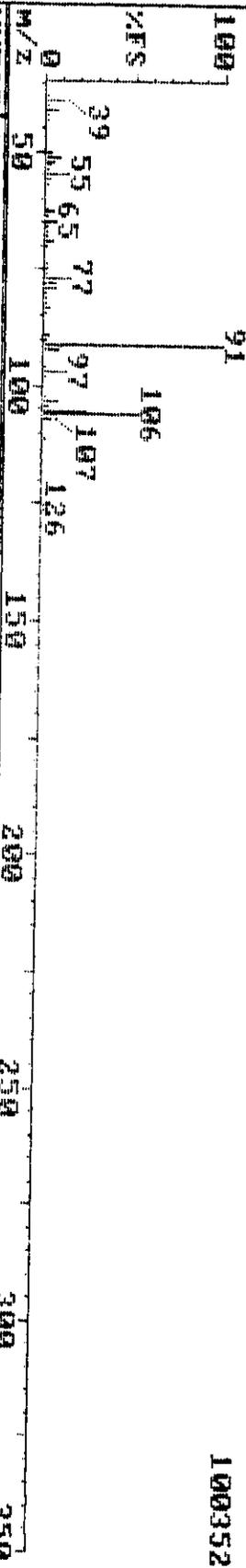
08-09-98 10:37

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-1-A T 214-27-20A TL#46323

Instrument H

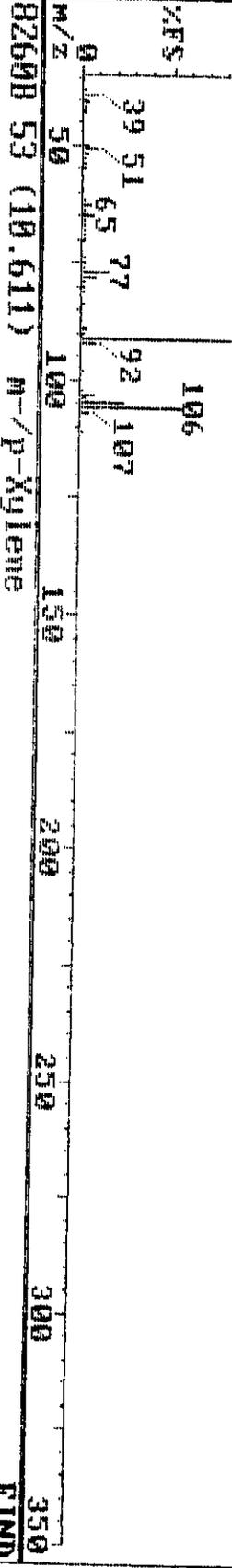
HM562 1052 (10.521)



100352

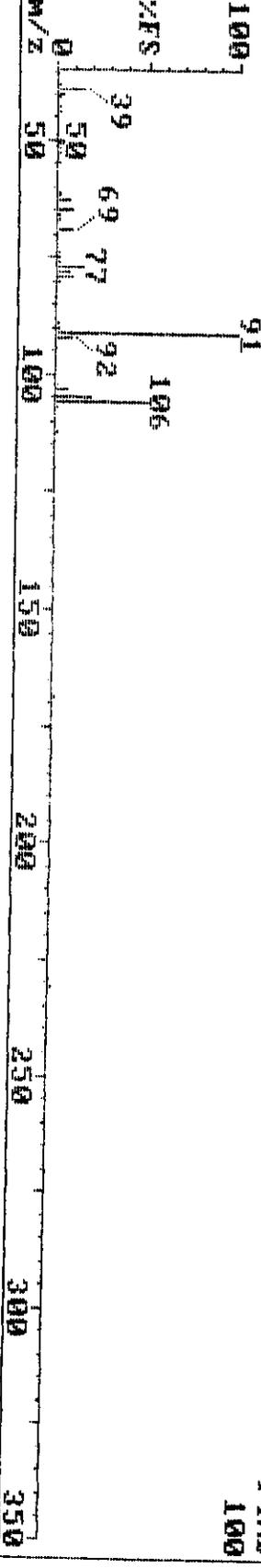
HM562 1052 (10.521) REFINE

84992

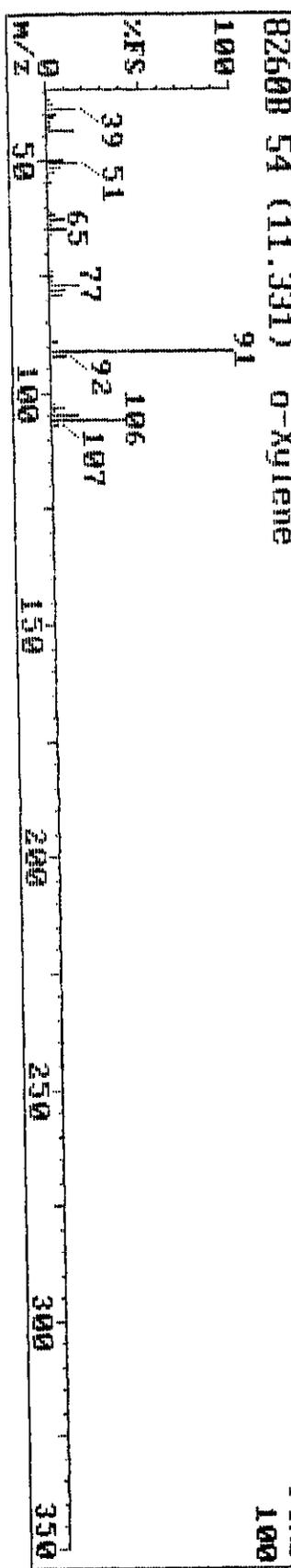
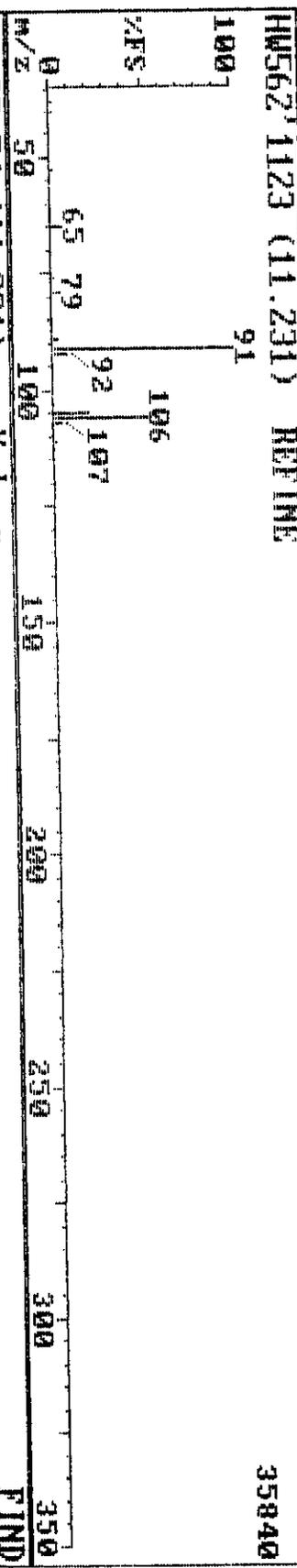
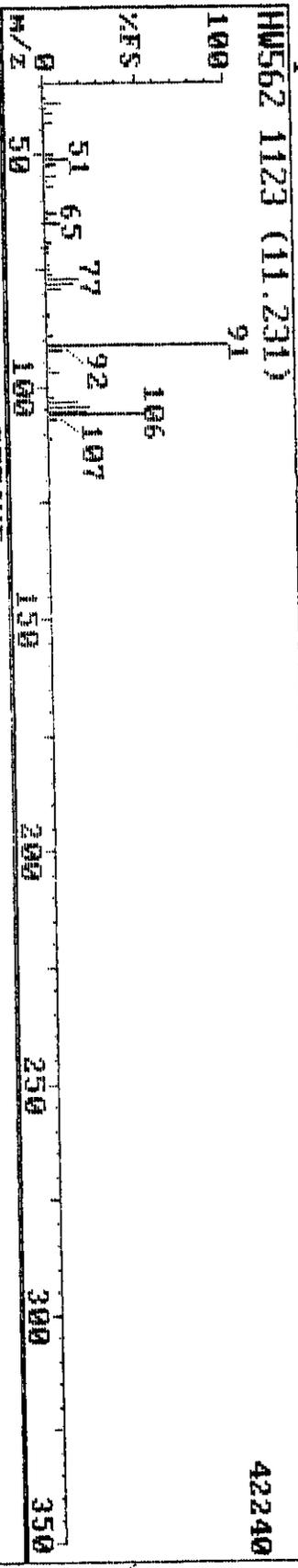


FIND

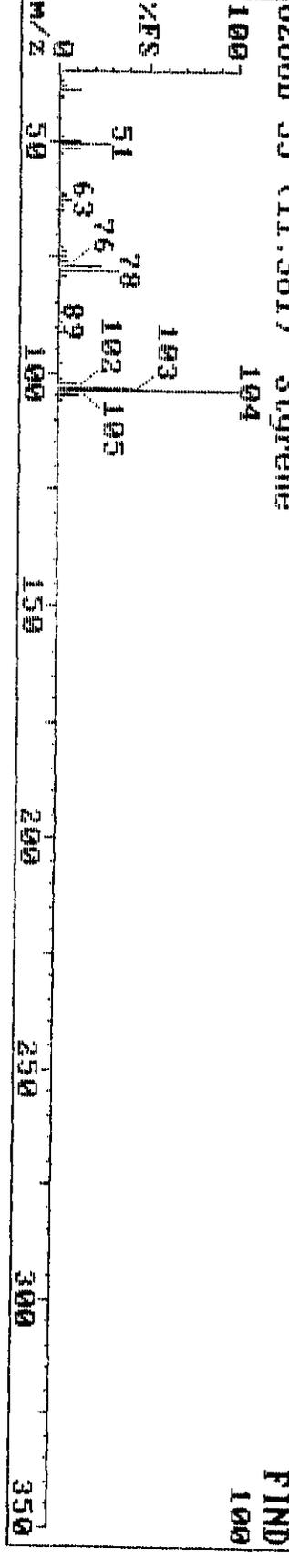
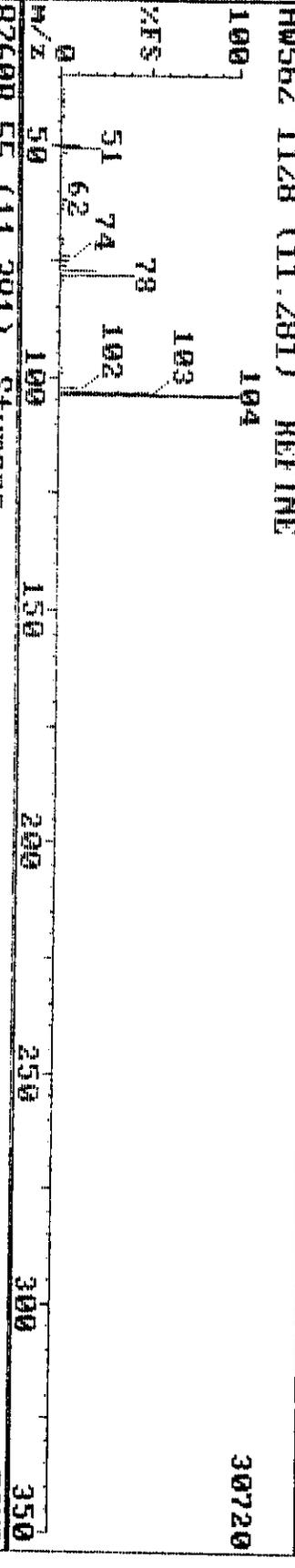
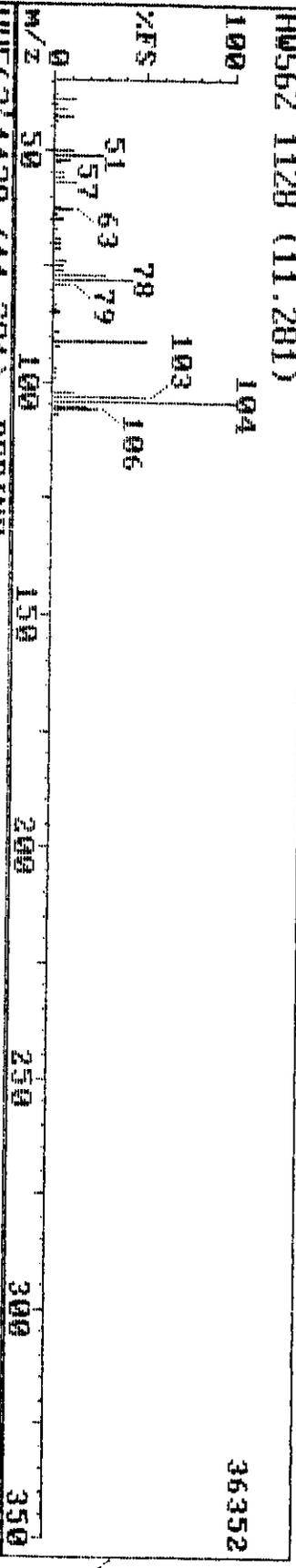
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08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-A T 214-27-28A TL1446323



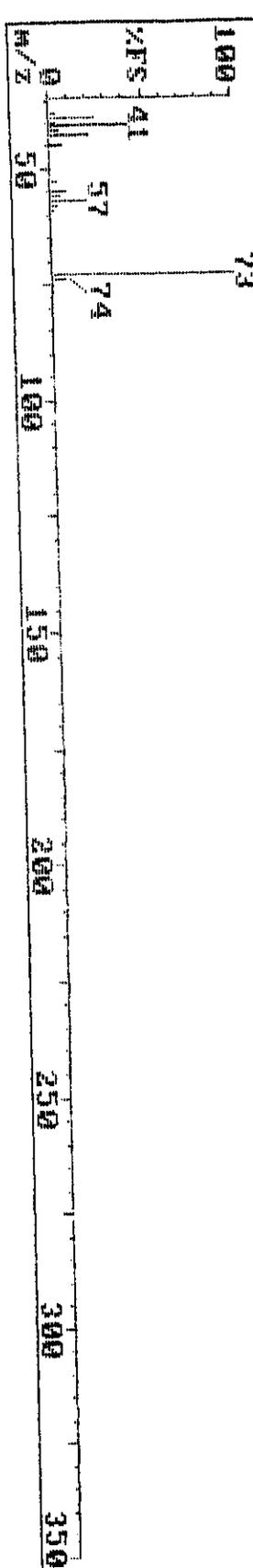
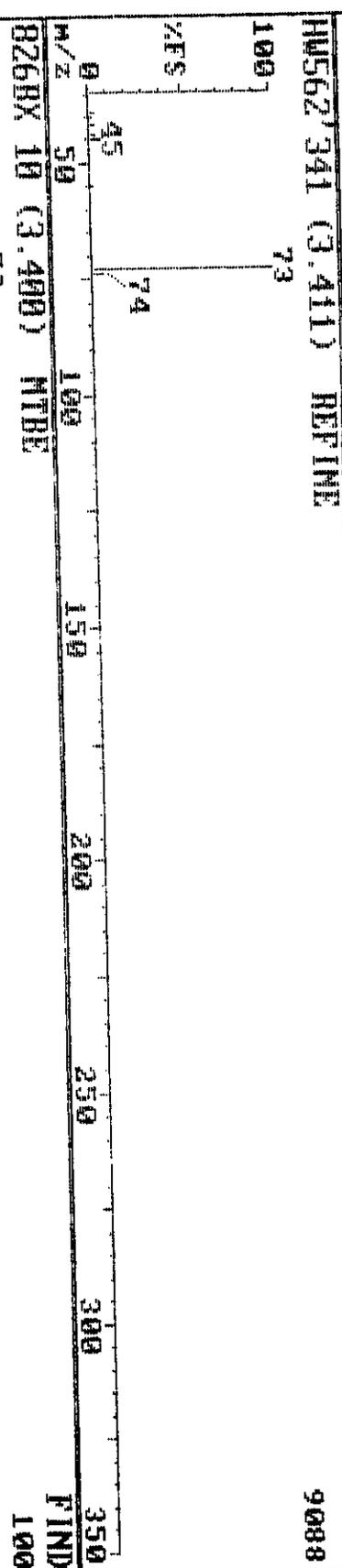
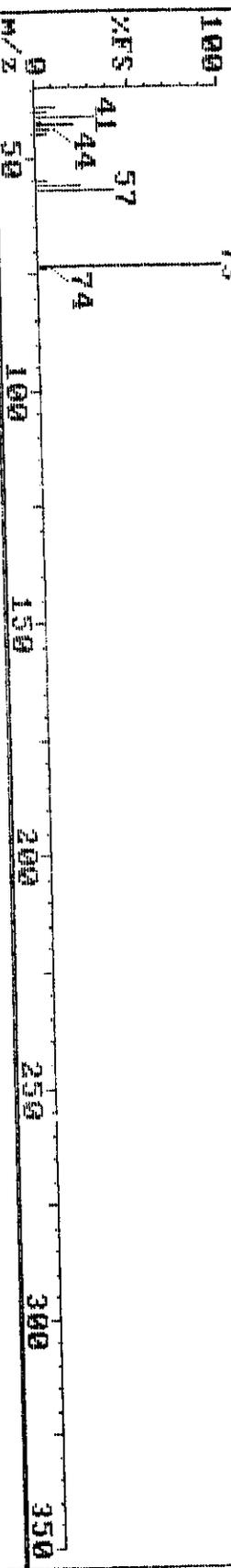
08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-U-4-1-A T 214-27-20A TL1#46323 Instrument H



08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-A T 214-27-20A T11#46323

HW562 341 (3.410) 11008



08-09-98 10:37

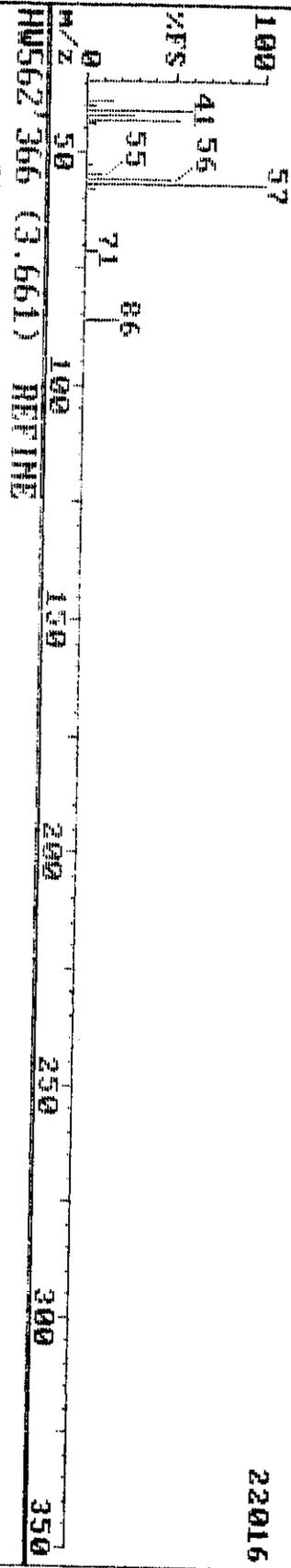
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-1-A T 214-27-20A T11#46323

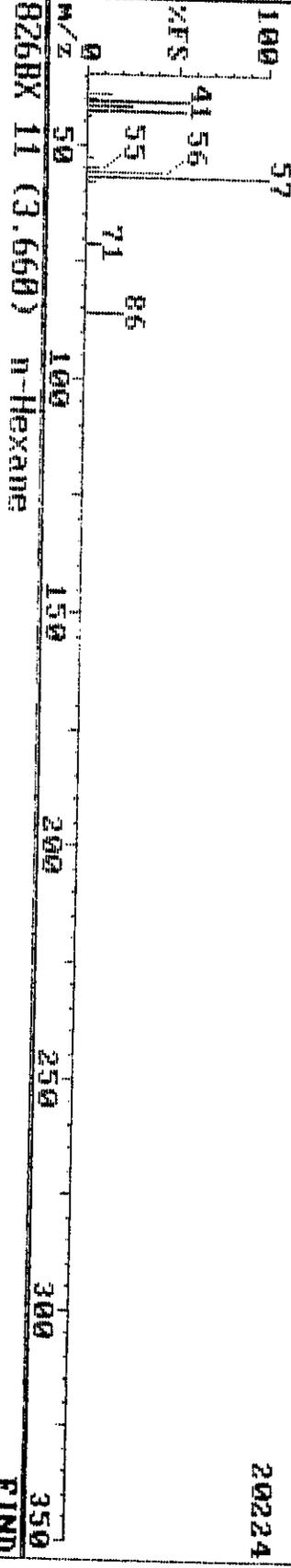
Instrument H

HW562 366 (3.660)

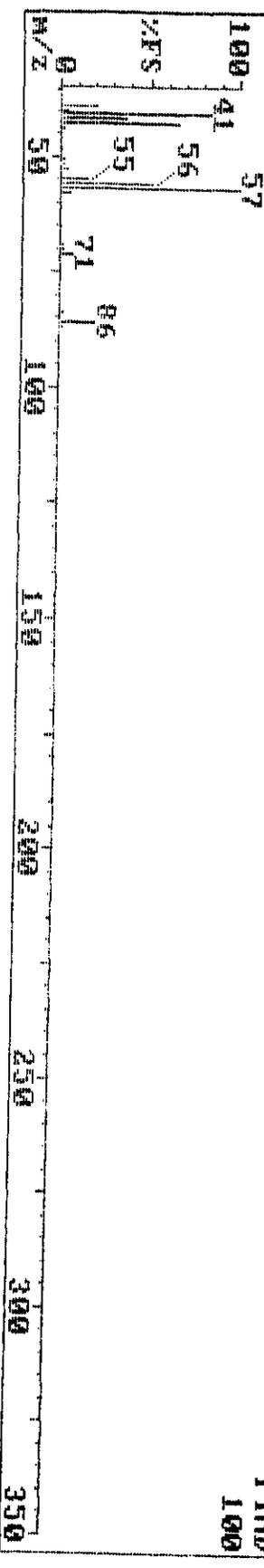
22016



20224



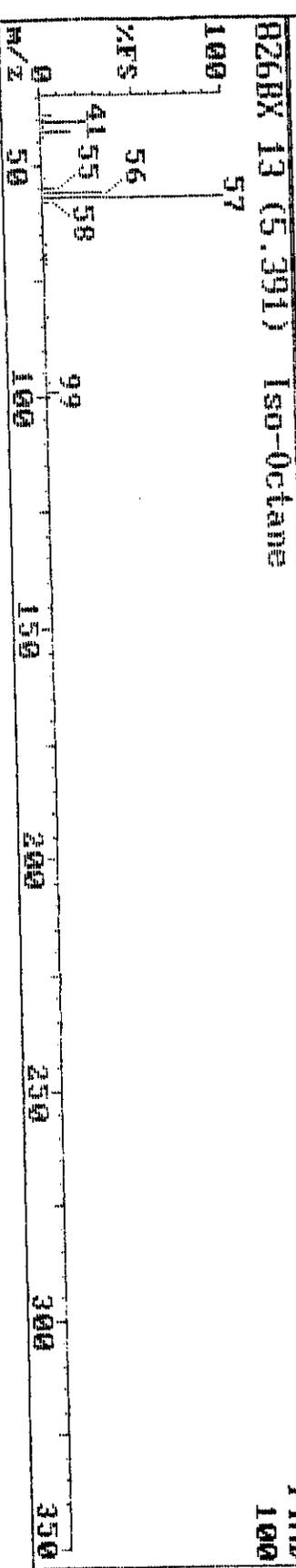
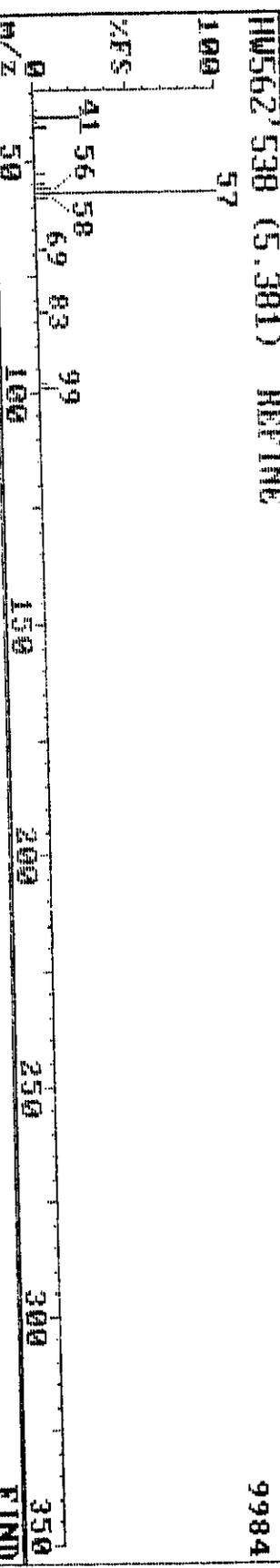
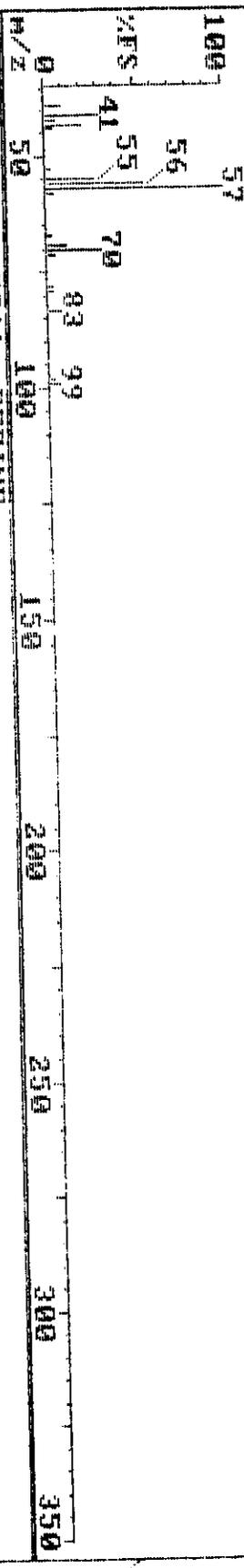
FIND 100



00-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-A 1 214-27-200 T11#46323

HM562 538 (5.381) 13184



**Pacific Environmental Services**

Project Number: 46323

Sample File: HW560

Method 8260 VOST  
Sample ID: T-V-4-1-B TC

Client Project: R012.001

TLI ID: 214-27-20B

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed : 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
Chloromethane	0.020	BJ	0.97		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.003	BJ	1.48		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.015	J	1.90		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone	0.087		2.77		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.327	B	3.06		0.05
Acrylonitrile		U		0.006	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.77		0.05
Carbon tetrachloride		U		0.001	0.05
Benzene	0.010	BJ	5.24		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Printed: 16:11 08/10/1998

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**Pacific Environmental Services**

Project Number: 46323  
Sample File: HW560

Method 8260 VOST  
Sample ID: T-V-4-1-B TC

Client Project: R012.001  
TLI ID: 214-27-20B

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed: 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.002	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.016	BJ	7.74		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	9.96		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.001	J	10.31		0.05
m-/p-Xylene	0.002	J	10.54		0.10
o-Xylene	0.001	J	11.26		0.05
Styrene	0.002	BJ	11.31		0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.08		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: HW560

Method 8260 VOST  
Sample ID: T-V-4-1-B TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALH809

TLI ID: 214-27-20B

Date Analyzed: 08/09/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.257	4.91	1	103
Toluene-d <sub>8</sub>	0.289	7.65	2	116
4-Bromofluorobenzene	0.291	12.25	2	116

Reviewed by Paul Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Printed: 16:11 08/10/1998

Pacific Environmental Services

Project Number: 46323  
Sample File: HW560

Method 8260 VOST  
Sample ID: T-V-4-1-B TC

Client Project: R012.001  
TLI ID: 214-27-20B

Date Received: 07/29/98

Response File: ICA1H809

Date Analyzed : 08/09/98

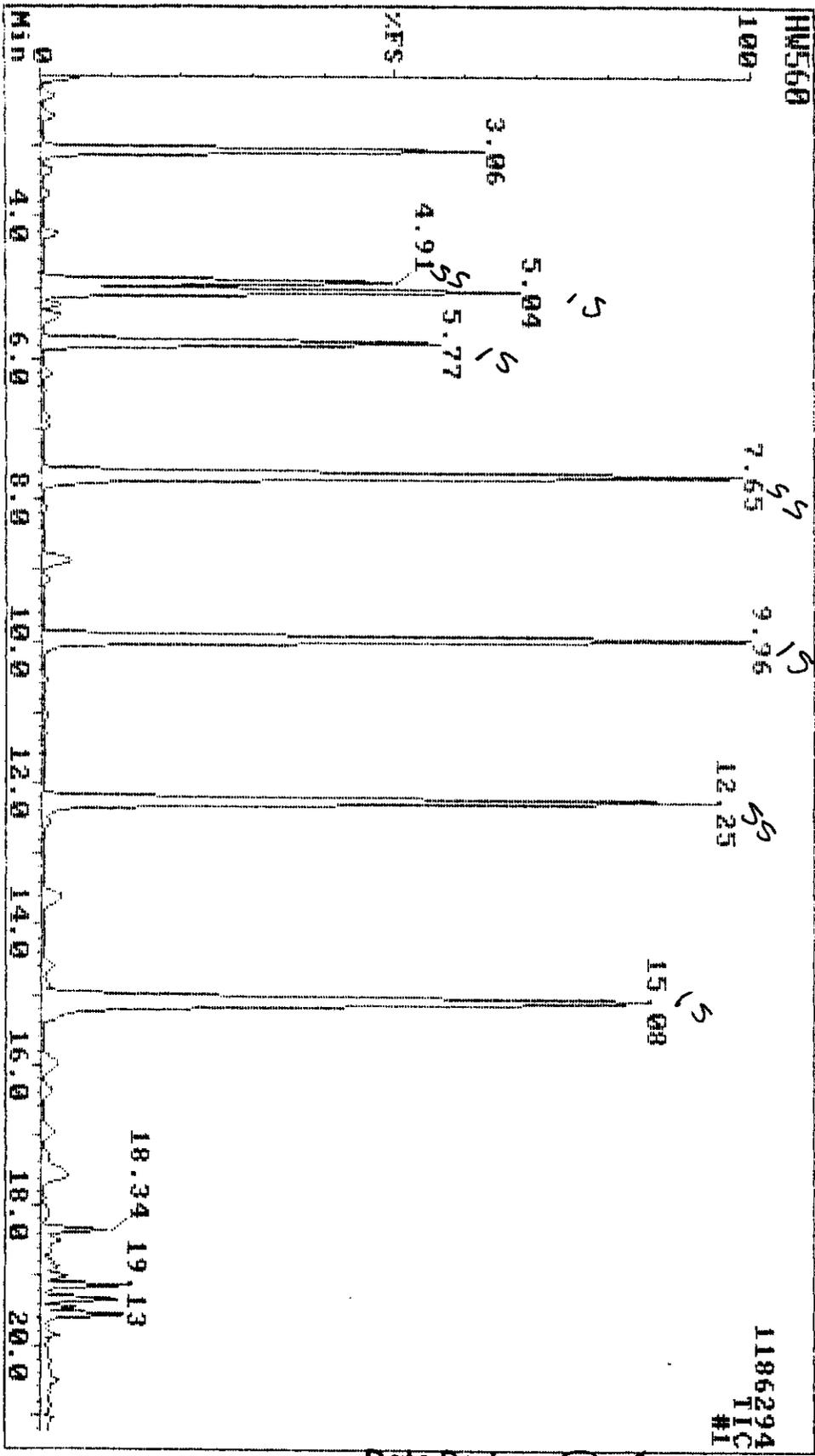
Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.014	J	3.41		0.25
n-Hexane	0.005	J	3.67		0.25
1,2-Epoxybutane		U		0.046	0.25
Iso-Octane	0.010	J	5.40		0.25
1,4-Difluorobenzene		IS 2	5.77		
Ethyl acrylate		U		0.001	0.25

Reviewed by     *PAR*     Date     8/10/98    

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-U-4-1-B T/C 214-27-200 TL#46323 Instrument H



Data Review: GAB  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	85	99	-5	2171720	bb	5.04	168 Pentafluorobenzene
2	100	97	98	0	2135508	bv	5.77	114 1,4-Difluorobenzene
3	100	95	95	2	3400236	bv	9.96	117 Chlorobenzene-d5
4	100	81	99	-6	2191016	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	97	100	0	1187804	bv	4.91	113 Dibromofluoromethane
6	100	93	97	1	3458992	bv	7.65	98 Toluene-d8
7	100	90	93	4	1869376	bv	12.25	95 4-Bromofluorobenzene
8	88	44	96	-1	621716	bv	0.75	85 Dichlorodifluoromethane
9	100	85	90	-1	67132	vv	0.97	50 Chloromethane
10	0	0	0	0	0		0.00	62 Vinyl Chloride
11	71	39	74	0	12992	bv	1.48	94 Bromomethane
12	0	0	0	0	0		0.00	64 Chloroethane
13	100	87	96	-1	135796	bb	1.90	101 Trichlorofluoromethane
14	0	0	0	0	0		0.00	96 1,1-Dichloroethene
15	0	0	0	0	0		0.00	142 Iodomethane
16	0	0	0	0	0		0.00	76 Carbon disulfide
17	63	52	84	11	37590	A	2.77	43 Acetone
18	0	0	0	0	0		0.00	41 Alkyl chloride
19	100	98	99	-1	1006848	bv	3.06	84 Methylene chloride
20	0	0	0	0	0		0.00	53 Acrylonitrile
21	0	0	0	0	0		0.00	96 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.00	63 1,1-Dichloroethane
23	0	0	0	0	0		0.00	43 Vinyl acetate
24	0	0	0	0	0		0.00	77 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethene
26	<del>57</del>	<del>49</del>	<del>49</del>	<del>3</del>	<del>3284</del>	<del>bb</del>	<del>4.53</del>	43 2-Butanone
27	0	0	0	0	0		0.00	83 Chloroform
28	0	0	0	0	0		0.00	128 Bromochloromethane
29	0	0	0	0	0		0.00	97 1,1,1-Trichloroethane
30	0	0	0	0	0		0.00	117 Carbon tetrachloride
31	0	0	0	0	0		0.00	75 1,1-Dichloropropene
32	100	89	92	0	101484	bb	5.24	78 Benzene
33	0	0	0	0	0		0.00	62 1,2-Dichloroethane
34	0	0	0	0	0		0.00	130 Trichloroethene
35	0	0	0	0	0		0.00	63 1,2-Dichloropropane
36	0	0	0	0	0		0.00	93 Dibromomethane
37	0	0	0	0	0		0.00	41 Methyl methacrylate
38	0	0	0	0	0		0.00	83 Bromodichloromethane
39	0	0	0	0	0		0.00	75 cis-1,3-Dichloropropene
40	<del>45</del>	<del>4</del>	<del>70</del>	<del>1</del>	<del>20568</del>	<del>A</del>	<del>7.64</del>	43 4-Methyl-2-pentanone
41	100	86	95	1	139400	bb	7.74	92 Toluene
42	0	0	0	0	0		0.00	75 trans-1,3-Dichloropropene
43	0	0	0	0	0		0.00	97 1,1,2-Trichloroethane
44	0	0	0	0	0		0.00	69 Ethyl methacrylate
45	0	0	0	0	0		0.00	164 Tetrachloroethene
46	0	0	0	0	0		0.00	76 1,3-Dichloropropane
47	<del>23</del>	<del>10</del>	<del>40</del>	<del>11</del>	<del>11248</del>	<del>A</del>	<del>9.13</del>	43 2-Hexanone
48	0	0	0	0	0		0.00	129 Dibromochloromethane
49	0	0	0	0	0		0.00	107 1,2-Dibromoethane
50	0	0	0	0	0		0.00	112 Chlorobenzene

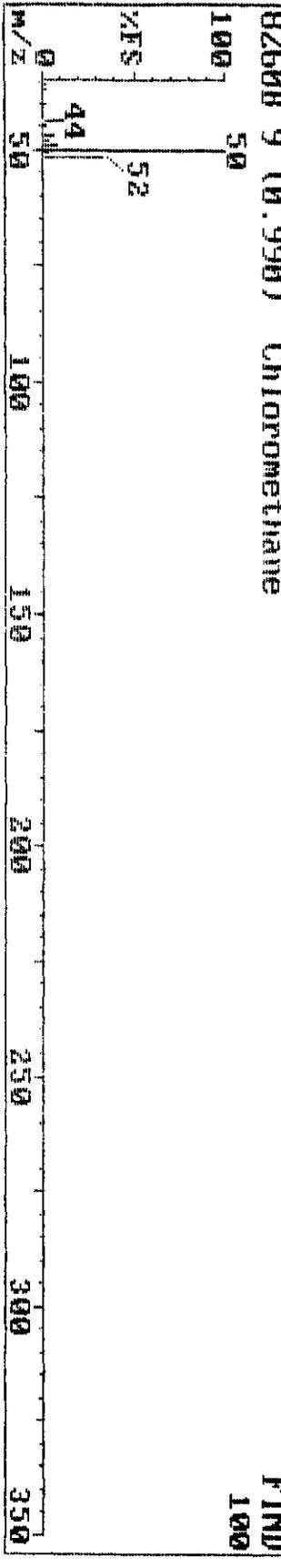
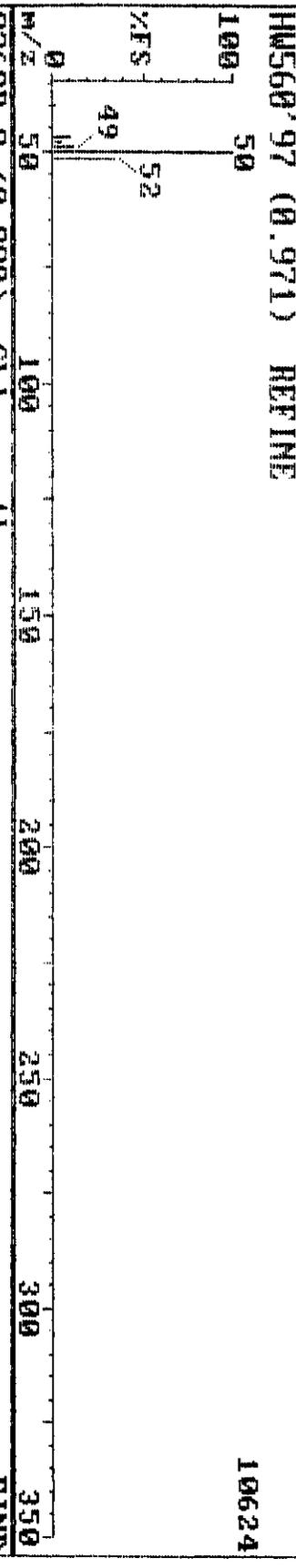
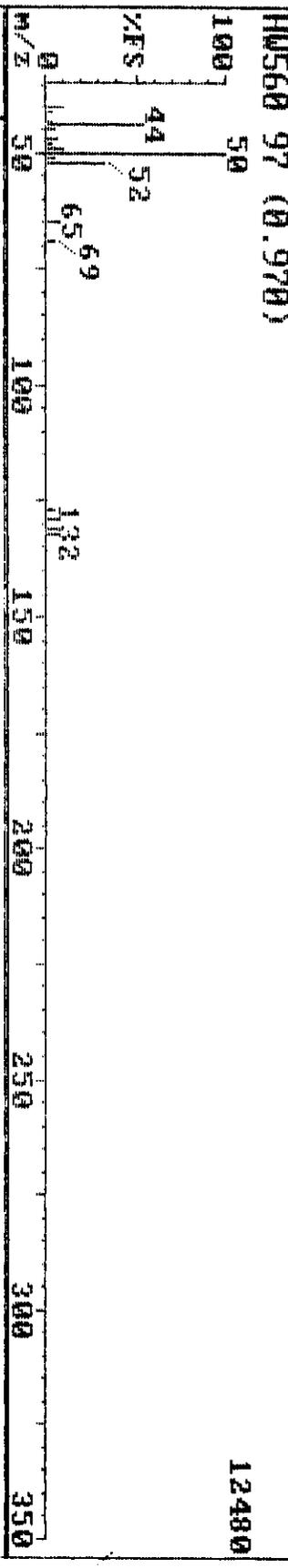
Data Review: PAB  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
51	0	0	0	0	0		0.00	131 1,1,1,2-Tetrachloroethan
52	55	36	56	1	4492	A	10.31	106 Ethylbenzene
53	85	68	72	1	17724	bb	10.54	106 m-/p-Xylene
54	58	49	49	2	5568	A	11.26	106 o-Xylene
55	81	68	68	2	24040	bb	11.31	104 Styrene
56	0	0	0	0	0		0.00	173 Bromoform
57	<del>45</del>	<del>44</del>	<del>44</del>	<del>7</del>	<del>4404</del>	<del>bb</del>	<del>12.04</del>	105 Cumene
58	0	0	0	0	0		0.00	83 1,1,2,2-Tetrachloroethan
59	0	0	0	0	0		0.00	156 Bromobenzene
60	0	0	0	0	0		0.00	75 1,2,3-Trichloropropane
61	0	0	0	0	0		0.00	120 n-Propylbenzene
62	0	0	0	0	0		0.00	75 trans-1,4-Dichloro-2-but
63	0	0	0	0	0		0.00	126 2-Chlorotoluene
64	0	0	0	0	0		0.00	126 4-Chlorotoluene
65	<del>61</del>	<del>57</del>	<del>57</del>	<del>3</del>	<del>7204</del>	<del>A</del>	<del>13.34</del>	105 1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119 tert-Butylbenzene
67	53	41	48	3	20336	A	14.25	105 1,2,4-Trimethylbenzene
68	37	16	46	1	12136	A	14.75	105 sec-Butylbenzene
69	0	0	0	0	0		0.00	119 p-Cymene
70	0	0	0	0	0		0.00	146 1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91 Benzyl chloride
73	0	0	0	0	0		0.00	91 n-Butylbenzene
74	0	0	0	0	0		0.00	146 1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75 1,2-Dibromo-3-chloroprop
76	69	86	97	17	108488	bv	19.13	180 1,2,4-Trichlorobenzene
77	39	20	89	17	14820	bb	19.34	225 Hexachlorobutadiene
78	57	68	84	17	221824	bv	19.33	128 Naphthalene
79	69	88	96	17	105276	bv	19.54	180 1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	85	99	0	2171720	bb	5.04	168 Pentafluorobenzene
2	100	97	98	1	2135508	bv	5.77	114 1,4-Difluorobenzene
3	100	95	95	0	3400236	bv	9.96	117 Chlorobenzene-d5
4	100	81	99	3	2191016	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	97	100	1	1187804	bv	4.91	113 Dibromofluoromethane
6	100	93	97	0	3458992	bv	7.65	98 Toluene-d8
7	100	90	93	2	1869376	bv	12.25	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	39 1,3-Butadiene
9	0	0	0	0	0		0.00	106 Vinyl bromide
10	31	61	72	1	14804	bb	3.41	73 MTBE
11	100	89	89	1	27508	bb	3.67	57 n-Hexane
12	<del>74</del>	<del>55</del>	<del>65</del>	<del>1</del>	<del>15396</del>	<del>bb</del>	<del>4.24</del>	42 1,2-Epoxybutane
13	100	91	92	1	133384	bb	5.40	57 Iso-Octane
14	<del>35</del>	<del>26</del>	<del>53</del>	<del>13</del>	<del>30256</del>	<del>0</del>	<del>6.19</del>	35 Ethyl acrylate

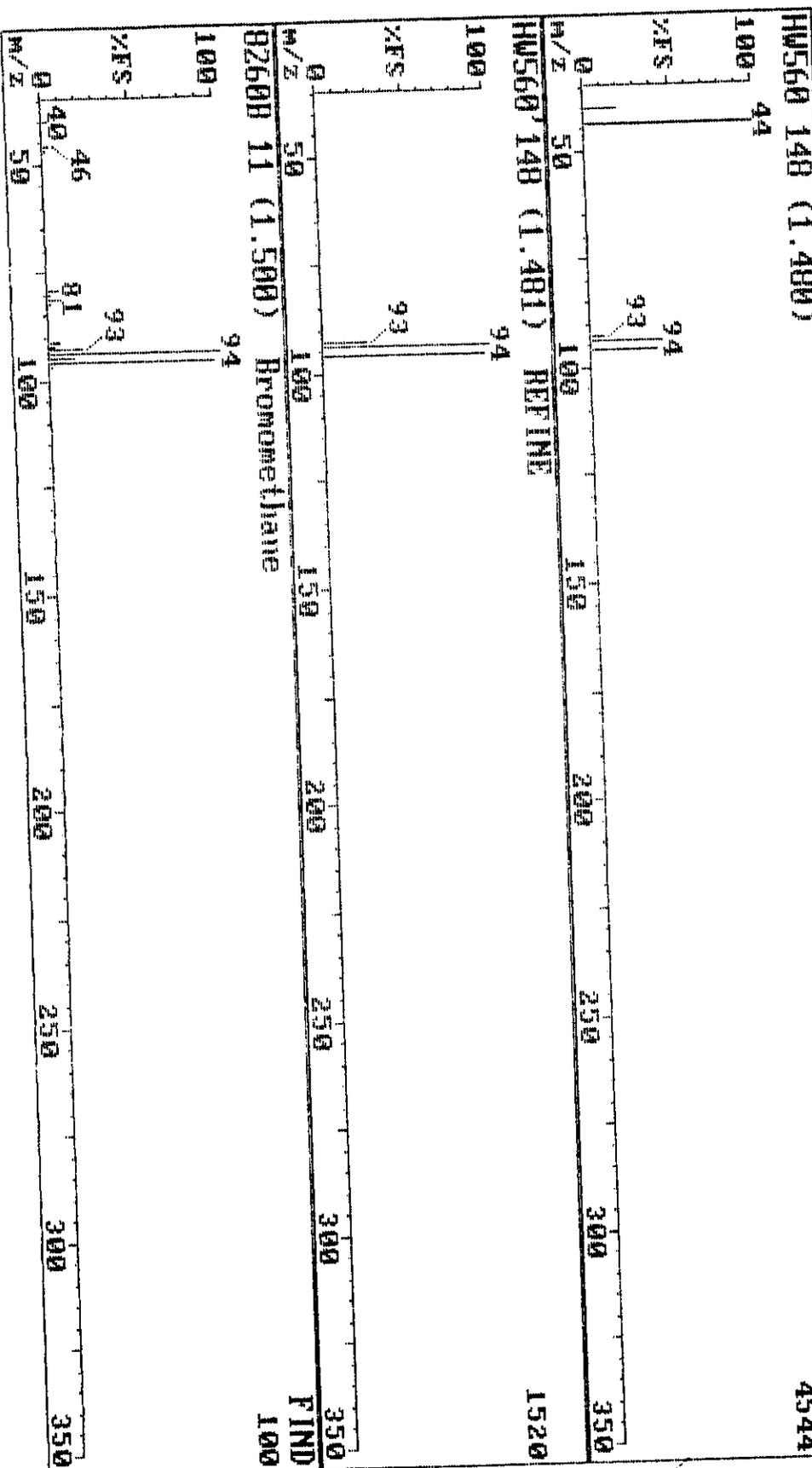
Data Review: Garb  
 Date: 8/10/98

08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-U-4-1-B T/C 214-27-20B TL#46323 Instrument H



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-B T/C 214-27-200 TL1W6323

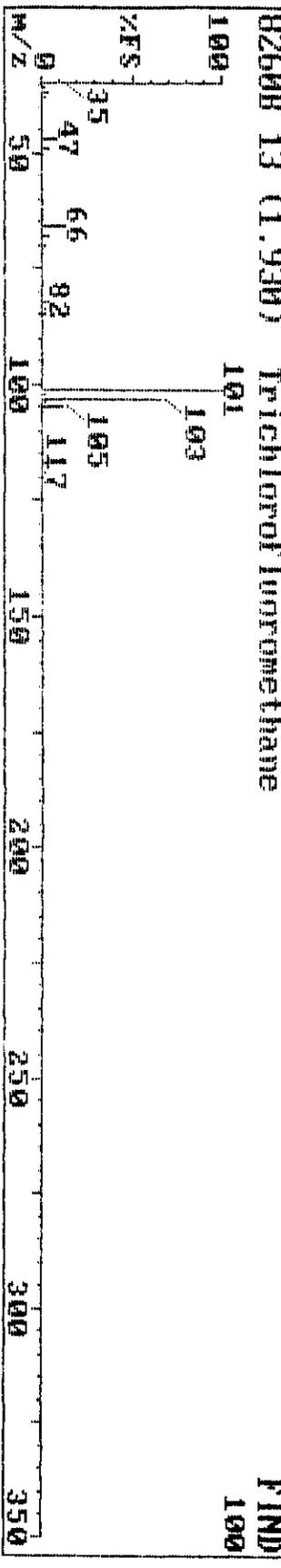
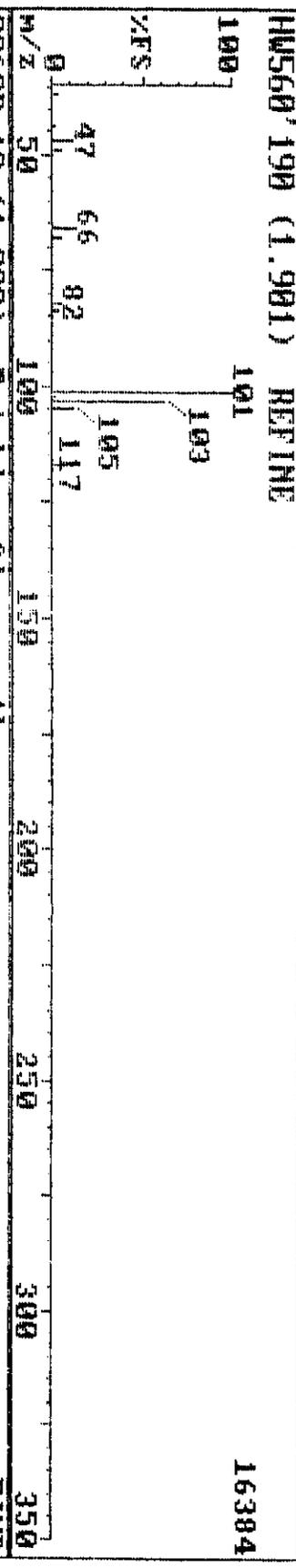
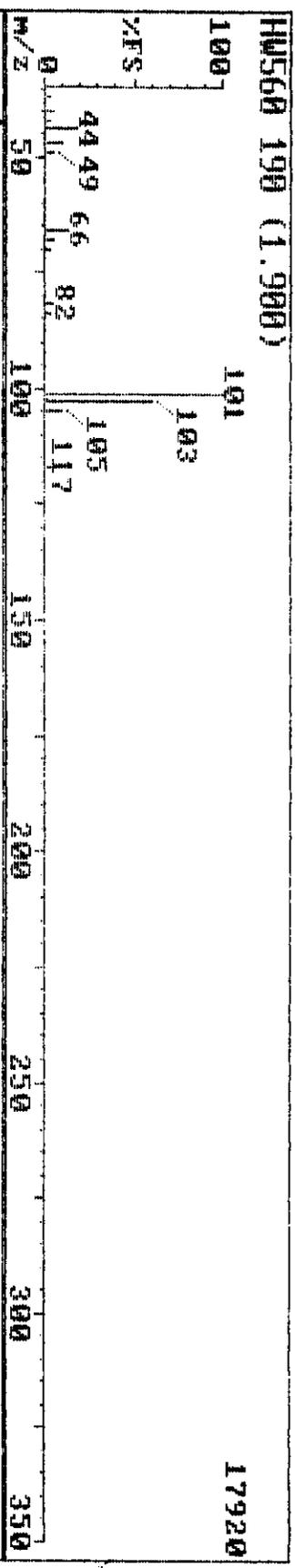


08-09-98 09:11

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-1-B T/C 214-27-200 TLH46323

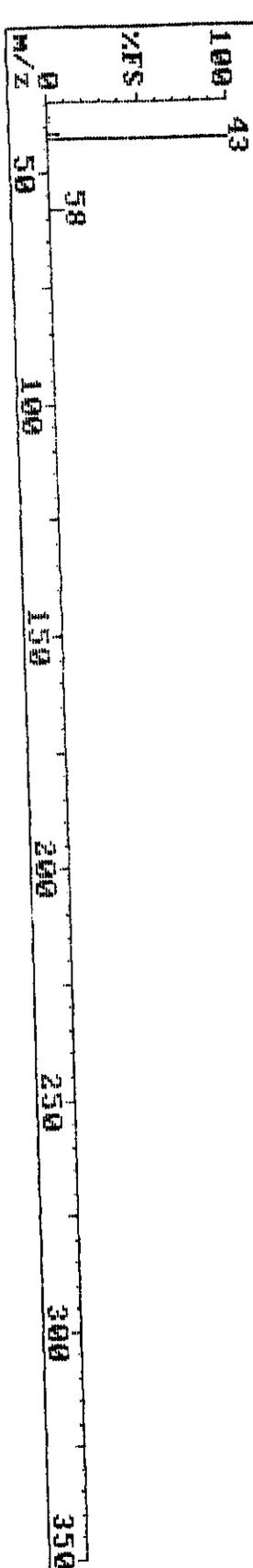
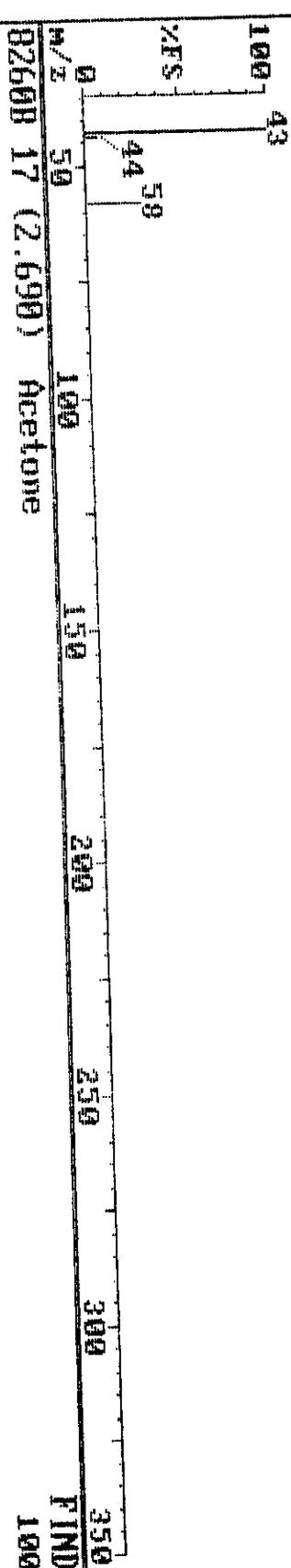
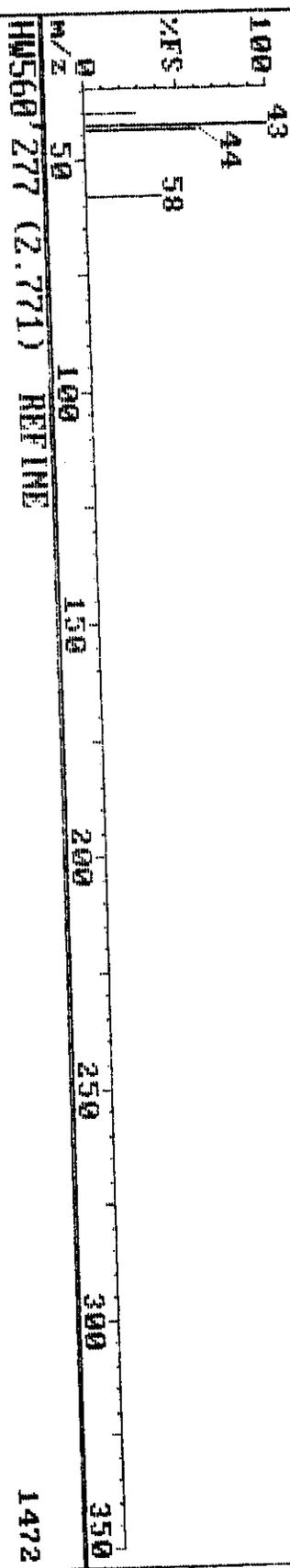
Instrument H



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-B T/C 214-27-20B TL#46323

HW560 277 (2.770) 2720



08-09-98 09:11

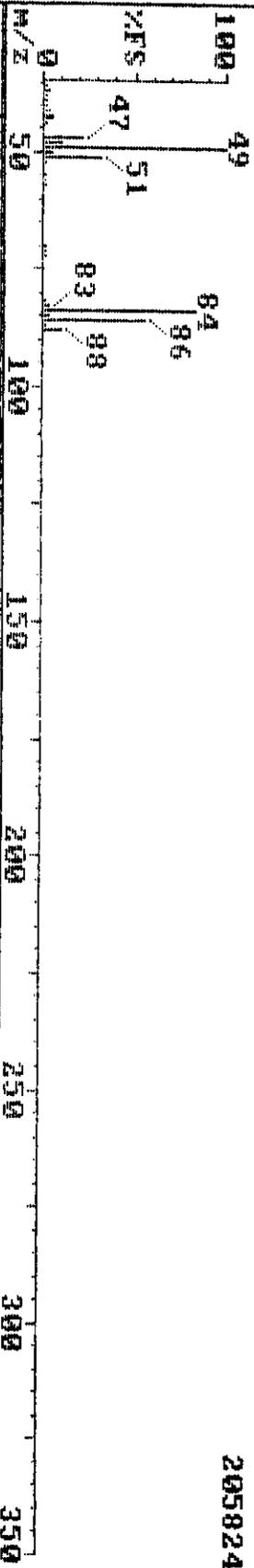
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-1-B T/C 214-27-20B TLI#46323

Instrument H

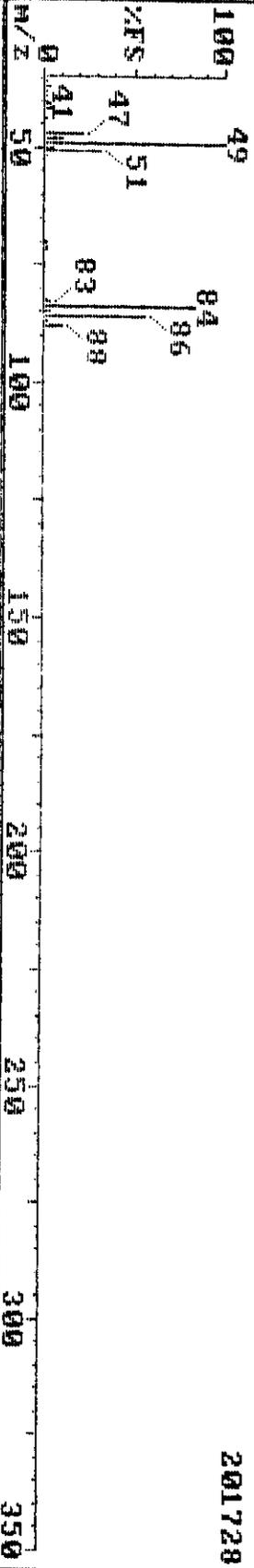
HW560 306 (3.060)

205824



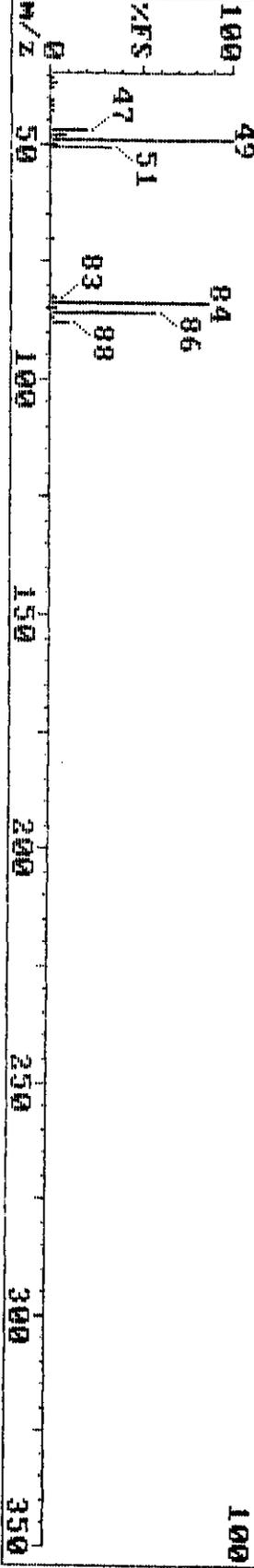
HW560 306 (3.061) REFINE

201728



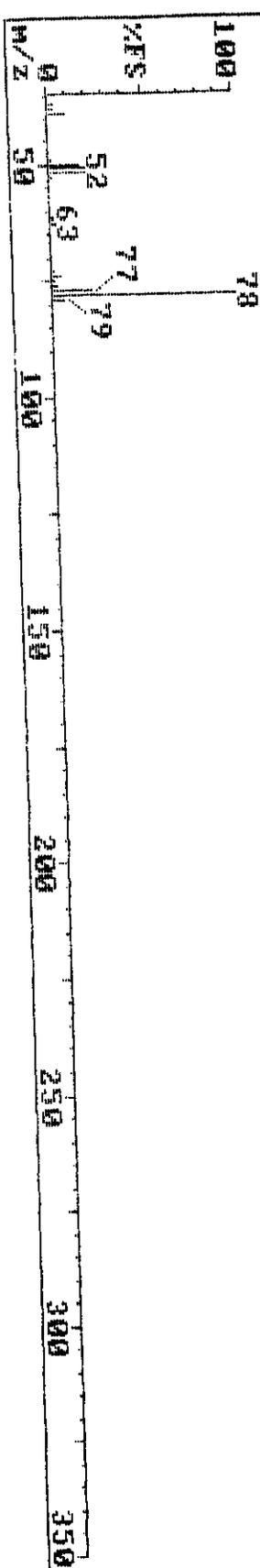
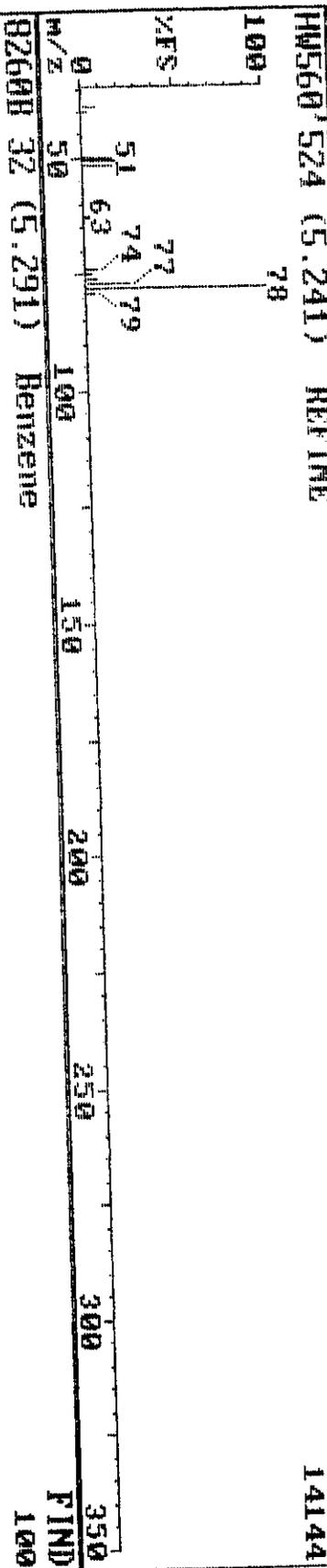
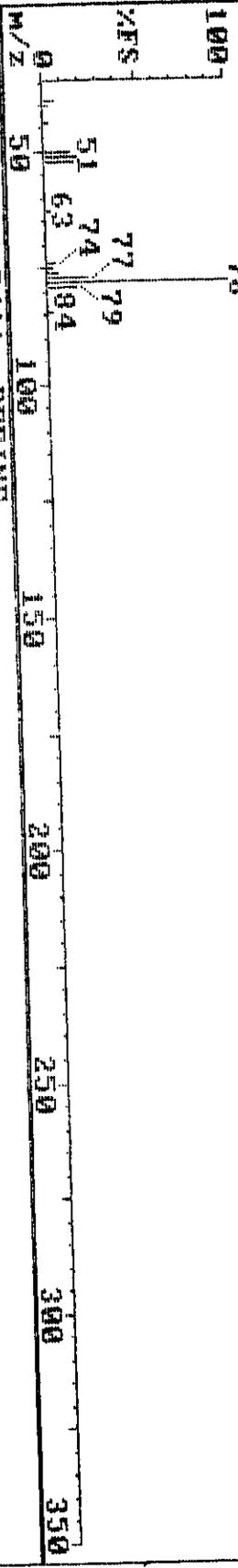
8260B 19 (3.100) Methylene chloride

FIND 100



00-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-B T/C 214-27-200 TL1M46323

HM560 524 (5.241) 14912



08-09-98 09:11

Triangle Laboratories, Inc.

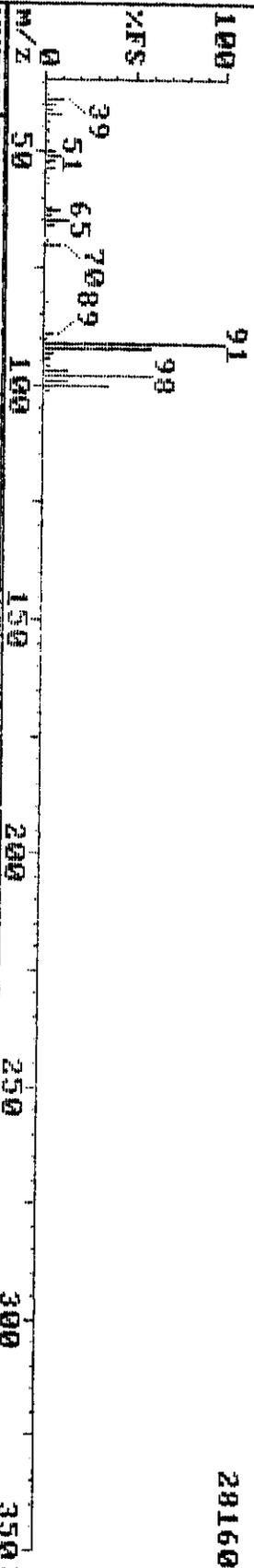
(919) 544-5729

Sample: T-U-4-1-B

T/C 214-27-20B T11#46323

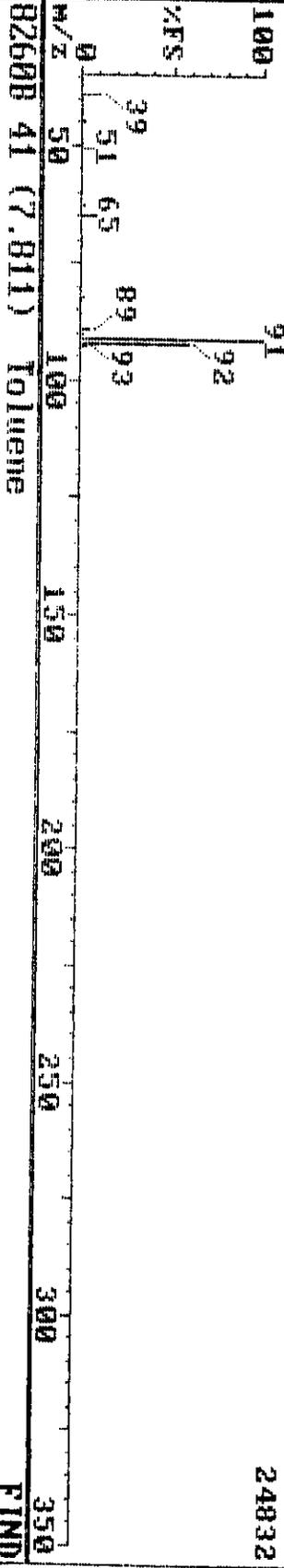
Instrument H

HM560 774 (7.741)



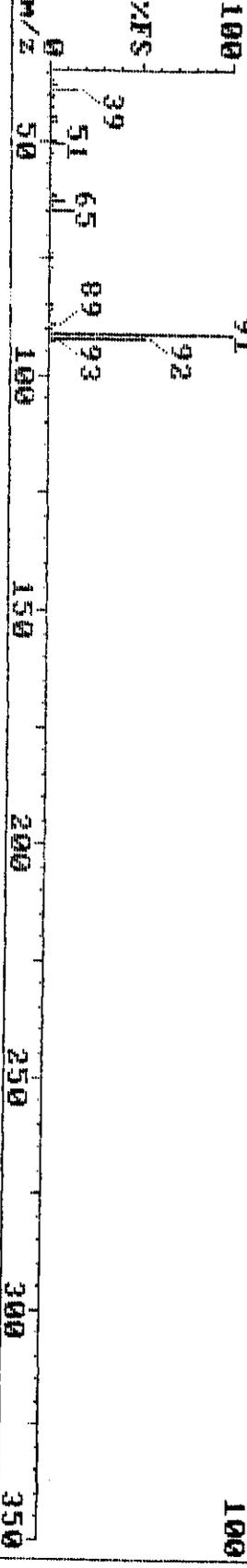
HM560 774 (7.741) REFINE

24832



BZ60B 41 (7.811) Toluene

FIND  
100

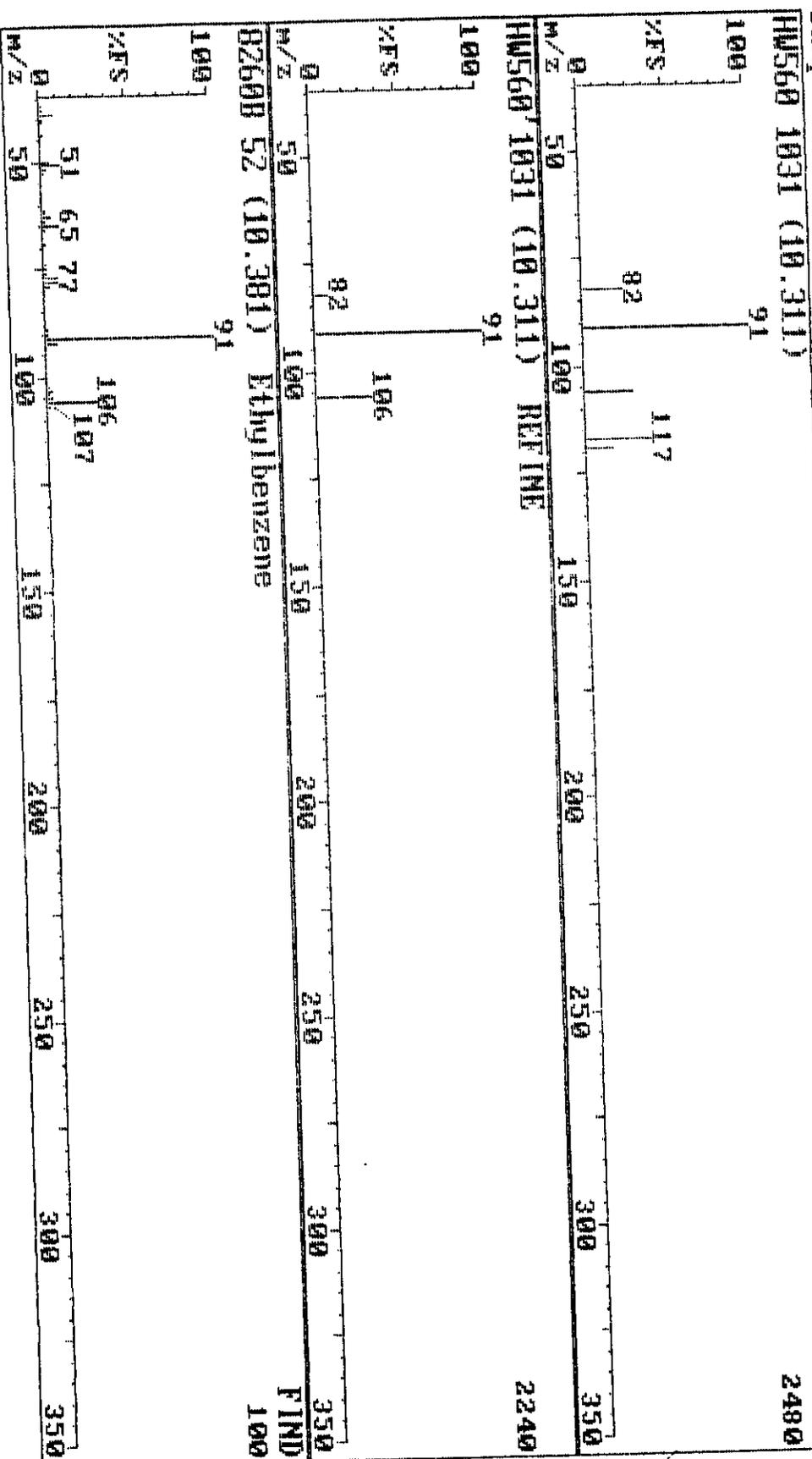


BZ60B 41 (7.811) Toluene

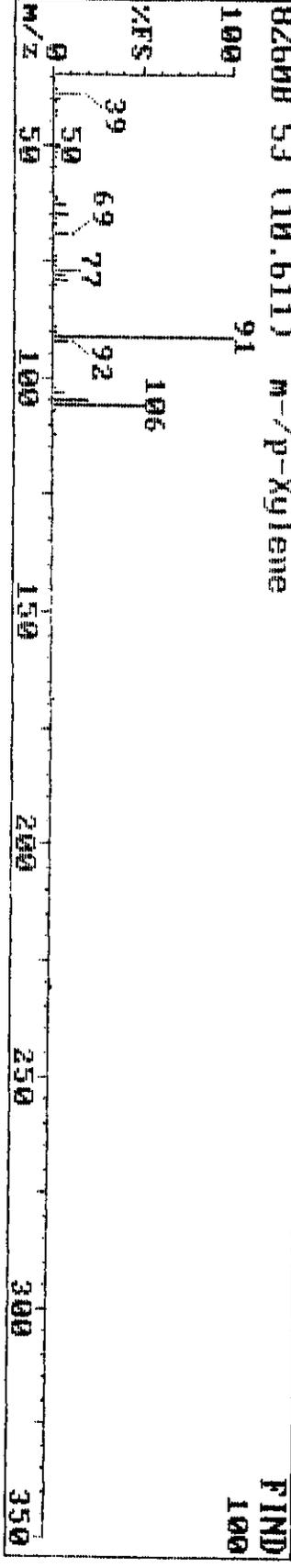
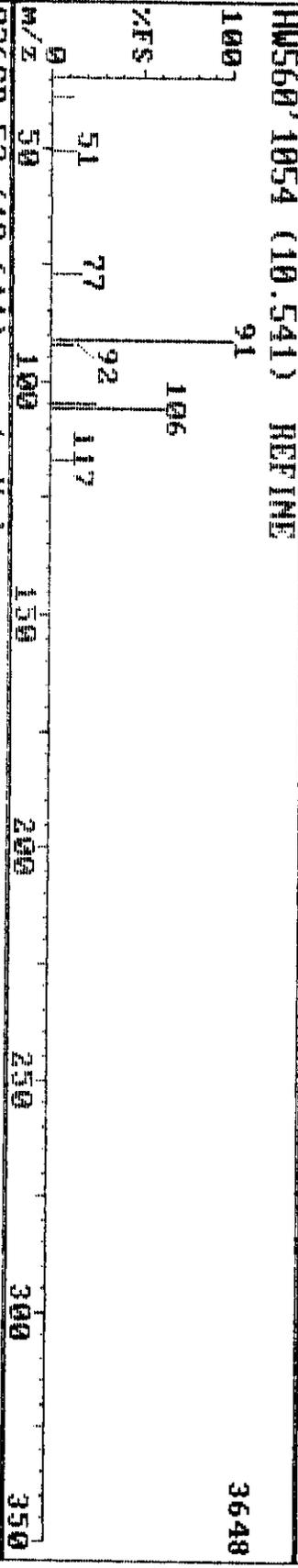
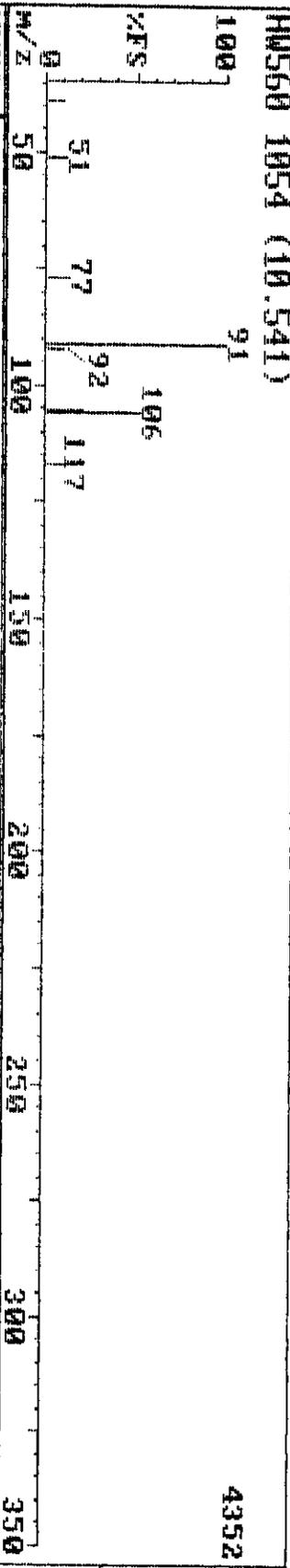
FIND  
100

08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-B T/C 214-27-200 T11#46323



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-1-B T/C 214-27-200 TLH46323

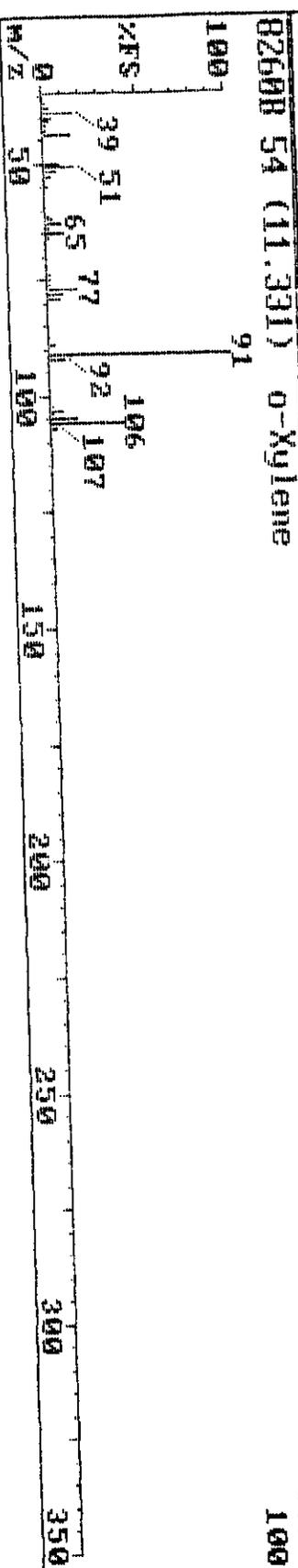
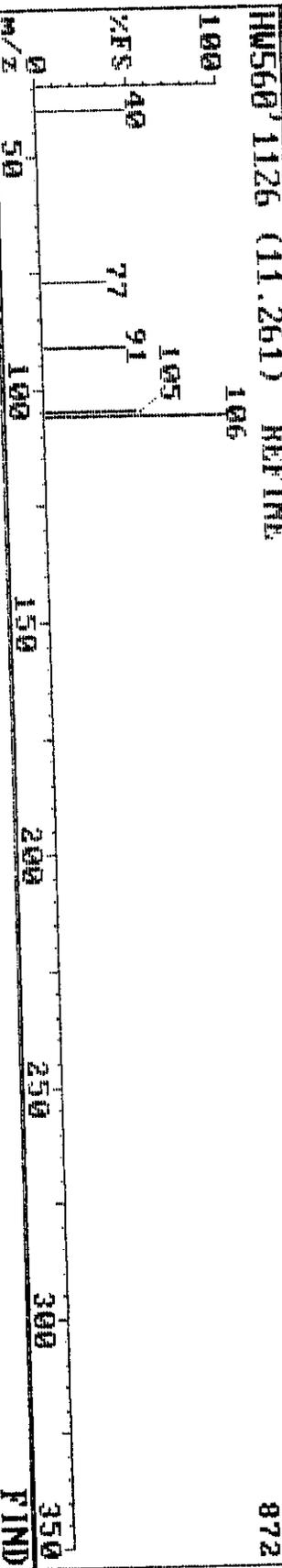
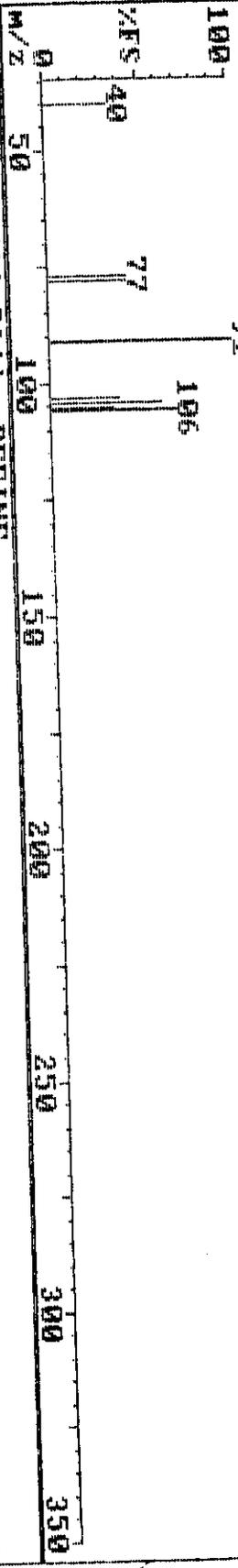


449

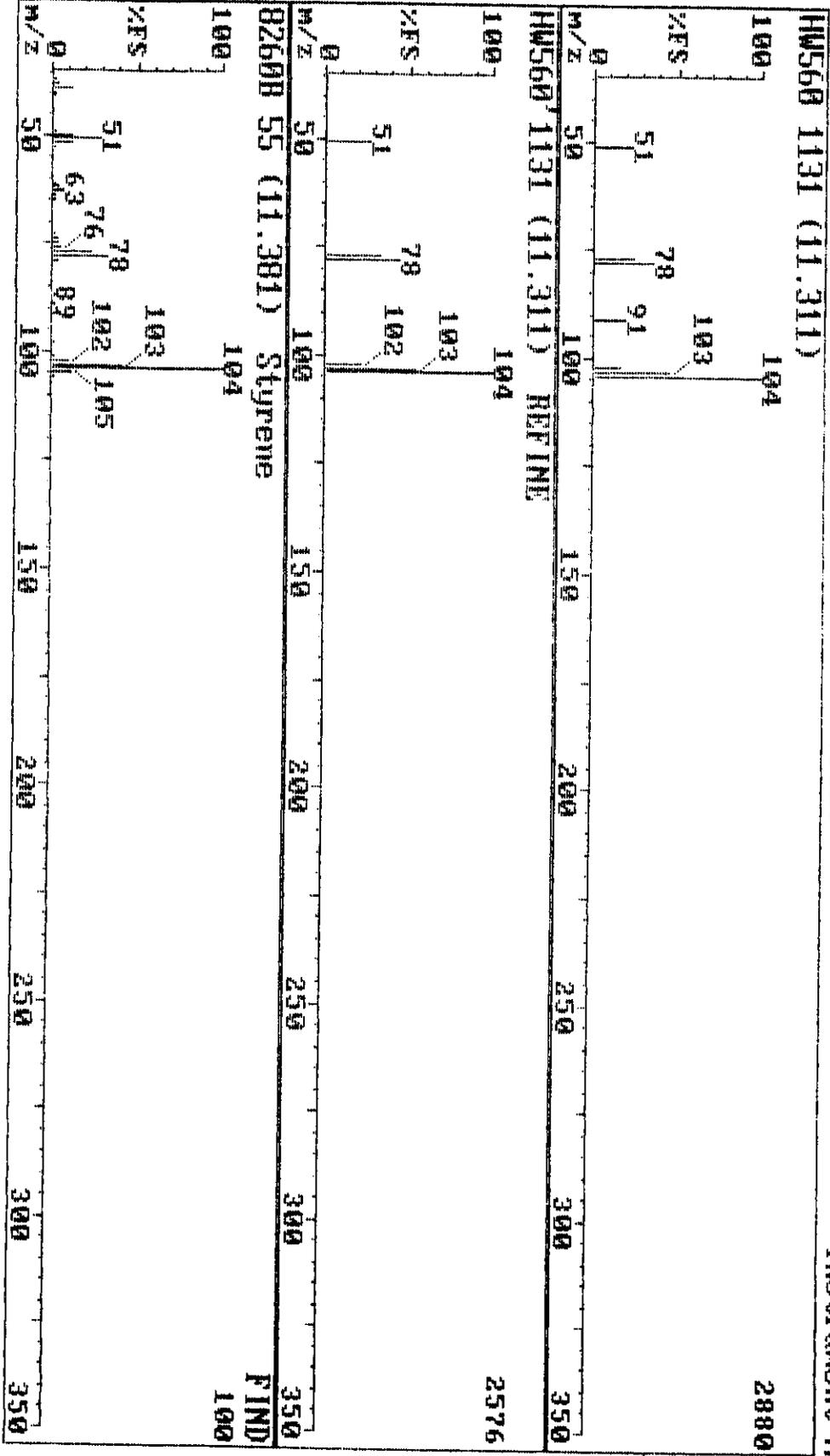
08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-B T/C 214-27-2RD TL1H46323

HM560 1126 (11.261) 1280



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729  
 Sample: T-U-4-1-B T/C 214-27-20B TL1#46323 Instrument H

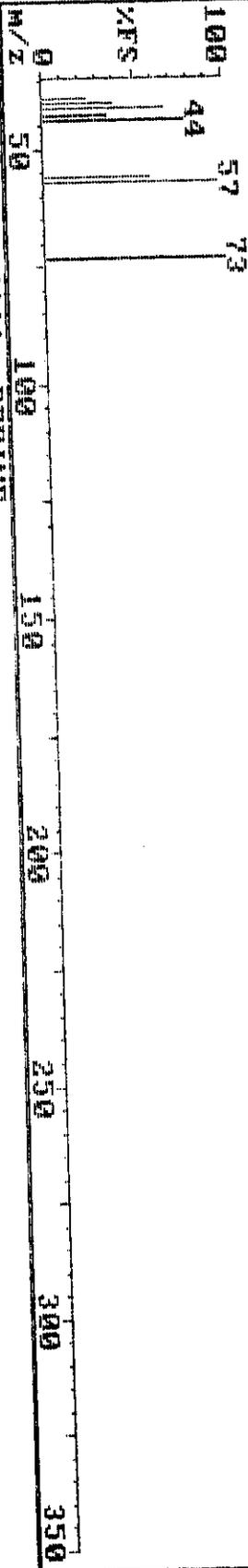


08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-1-B T/C 214-27-20D TL#46323

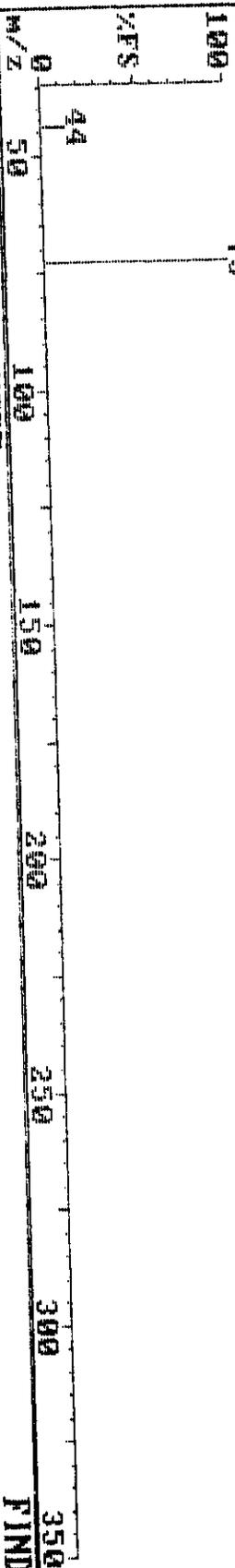
HM560 341 (3.410)

1696



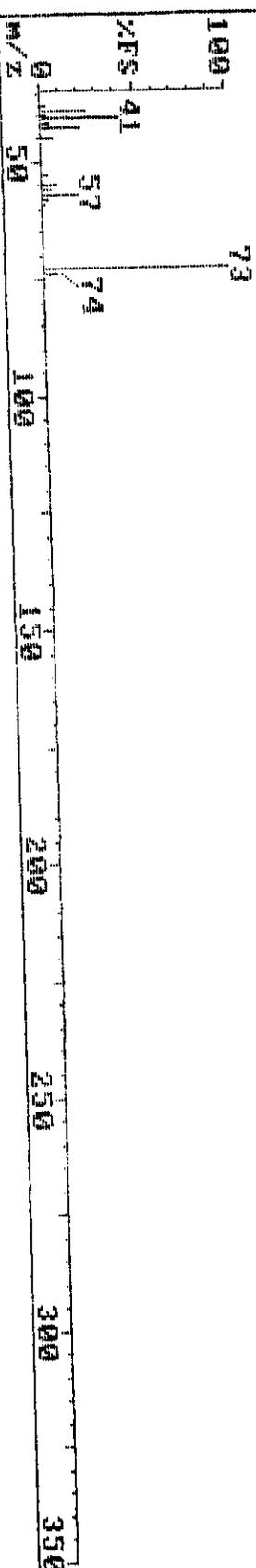
HM560 341 (3.411) REFINE

1440



BZ6BX 10 (3.400) NTBE

FIND 100



08-09-98 09:11

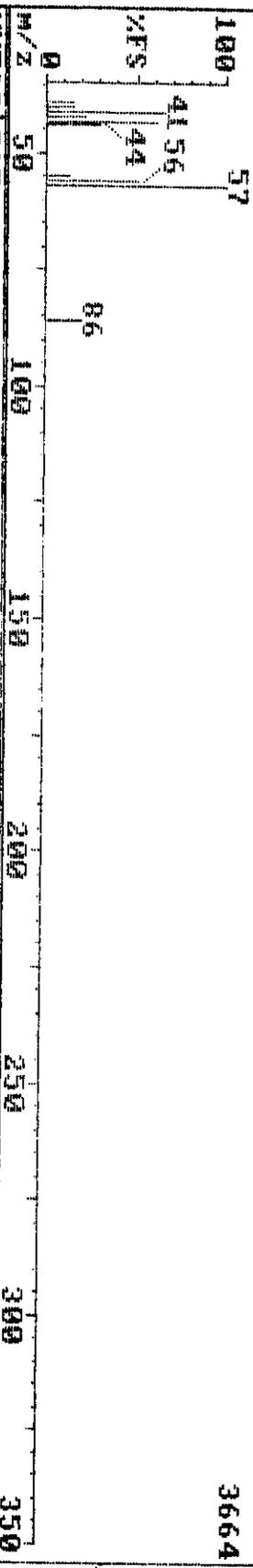
Triangle Laboratories, Inc.

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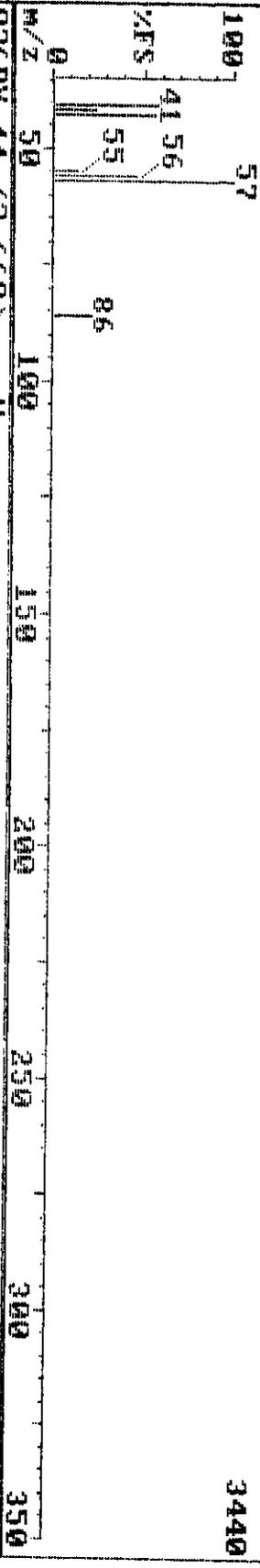
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Instrument H

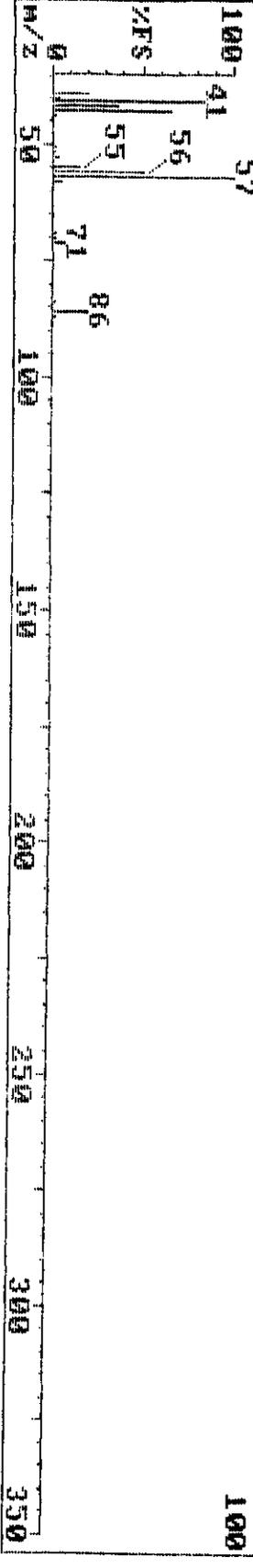
HW560 367 (3.670)



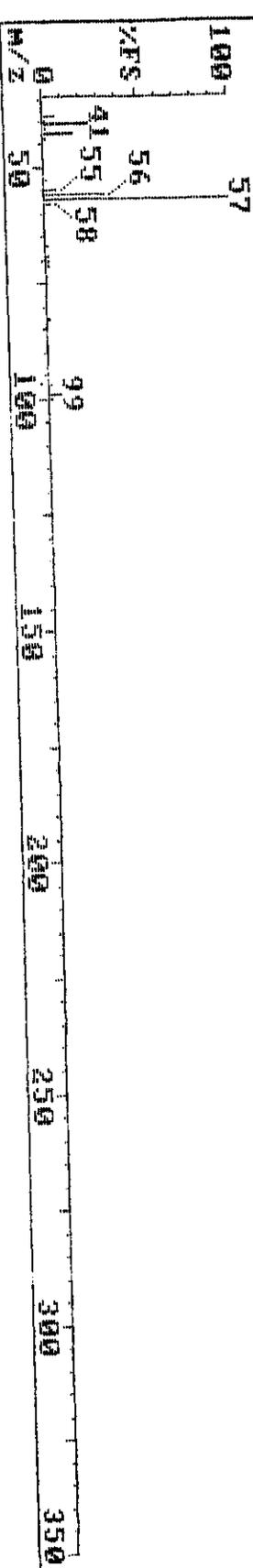
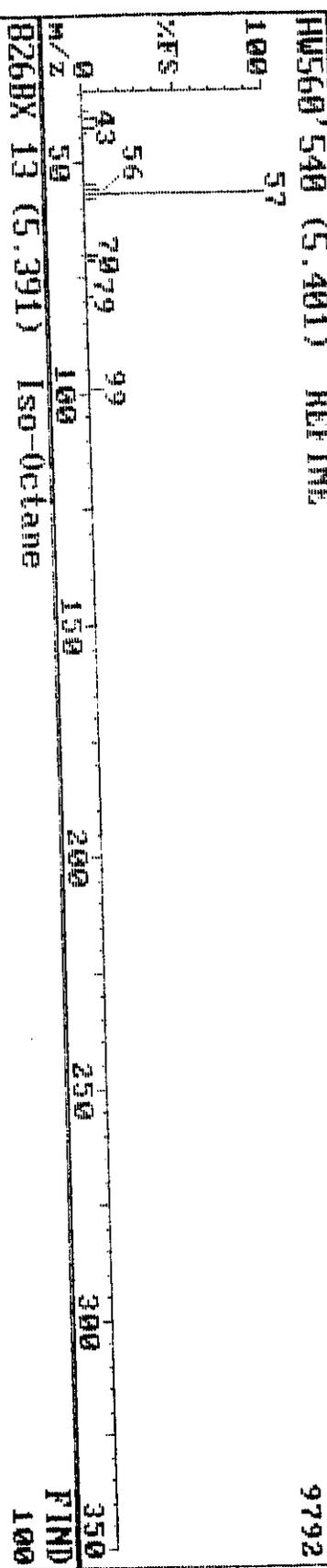
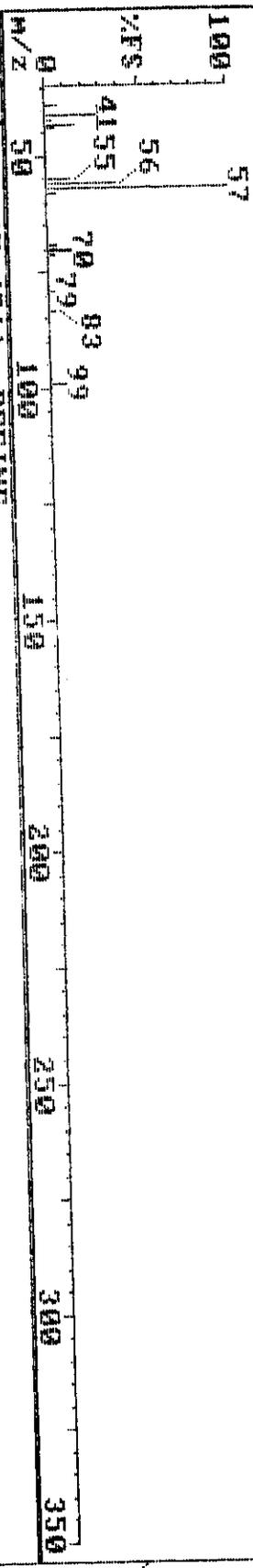
HW560 367 (3.671) REFINE



BZ6BX 11 (3.660) n-Hexane



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
 Sample: T-U-4-1-B T/C 214-27-200 TL146323  
 HW560 540 (5.401) 13056



**Pacific Environmental Services**

Project Number: 46323

Sample File: HW563

Method 8260 VOST

Sample ID: T-V-4-2-A T

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALH809

TLI ID: 214-27-21A

Date Analyzed : 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.02		
Chloromethane	0.005	BJ	0.93		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.006	BJ	1.43		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone	0.036	J	2.69		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.674	B	3.01		0.05
Acrylonitrile		U		0.006	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.003	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.74		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.034	BJ	5.21		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capicola Drive • Durham, North Carolina 27713

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Printed: 16:11 08/10/1998

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Pacific Environmental Services

Project Number: 46323  
Sample File: HW563

Method 8260 VOST  
Sample ID: T-V-4-2-A T

Client Project: R012.001  
TLI ID: 214-27-21A

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed: 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.002	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.010	BJ	7.71		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	9.95		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene	0.003	BJ	11.30		0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.08		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: HW563

Method 8260 VOST  
Sample ID: T-V-4-2-A T

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALH809

TLI ID: 214-27-21A

Date Analyzed: 08/09/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.242	4.89	1	97
Toluene-d <sub>8</sub>	0.244	7.62	2	98
4-Bromofluorobenzene	0.271	12.25	2	108

Reviewed by PAB Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.  
801 Capitola Drive • Durham, North Carolina 27713  
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Printed: 16:11 08/10/1998

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Pacific Environmental Services

Project Number: 46323  
 Sample File: HW563

Method 8260 VOST  
 Sample ID: T-V-4-2-A T

Client Project: R012.001  
 TLI ID: 214-27-21A

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed: 08/09/98

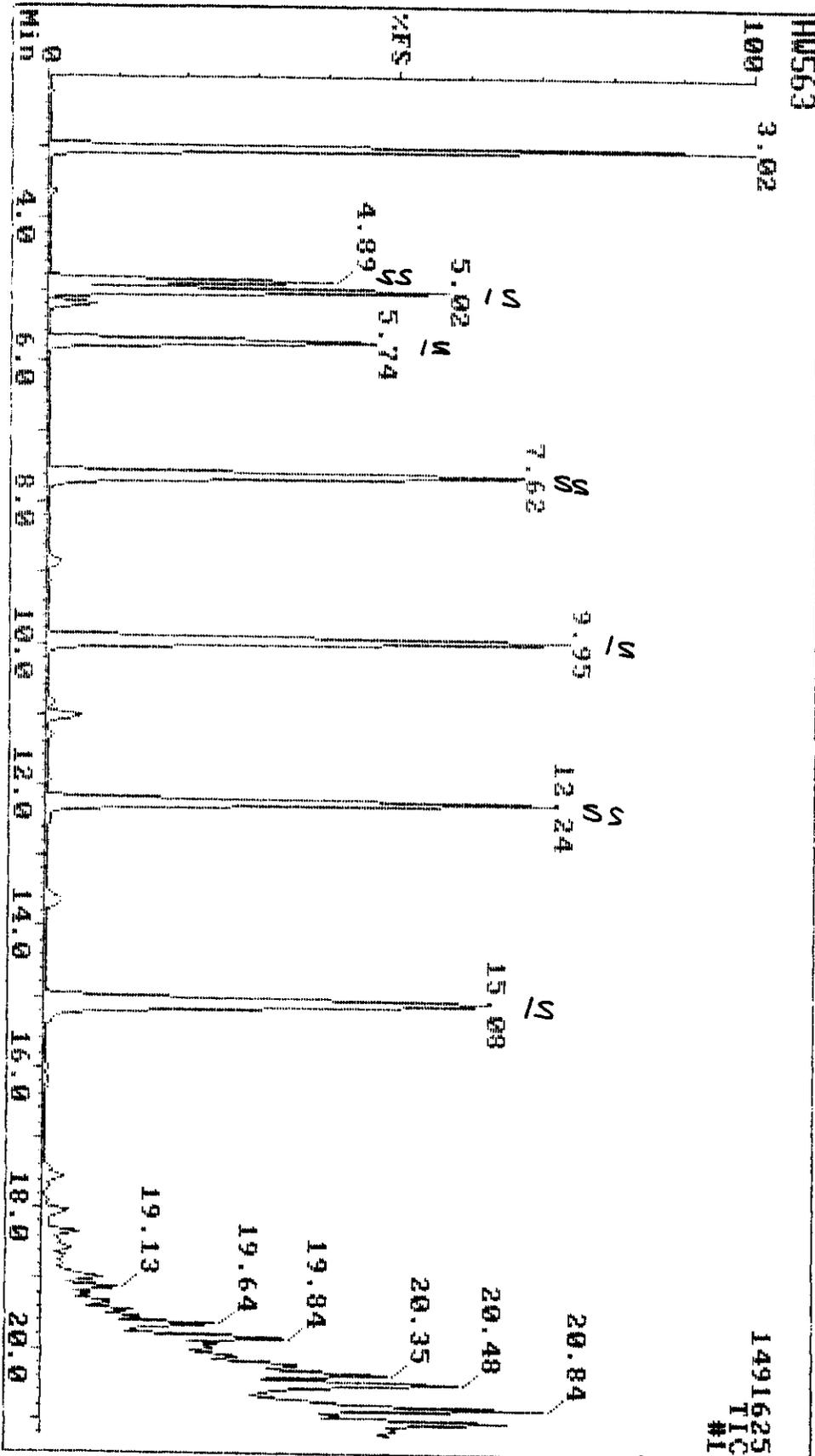
Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.02		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.002	0.25
n-Hexane	0.006	J	3.63		0.25
1,2-Epoxybutane		U		0.041	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	5.74		
Ethyl acrylate		U		0.001	0.25

Reviewed by PAW Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729  
Sample: T-U-4-2-A T 214-27-21A TLM46323 Instrument H



Data Review: PAB  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	-7	2423308	bv	5.02	168 Pentafluorobenzene
2	100	97	98	-1	2207752	bb	5.74	114 1,4-Difluorobenzene
3	100	94	94	7	3233076	bv	9.95	117 Chlorobenzene-d5
4	100	82	98	-4	2122609	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	98	100	0	1249872	bv	4.89	113 Dibromofluoromethane
6	100	94	98	2	3014892	bv	7.62	98 Toluene-d8
7	87	90	93	10	1794012	bv	12.25	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	85 Dichlorodifluoromethane
9	76	69	69	-5	17996	bb	0.93	50 Chloromethane
10	0	0	0	0	0		0.00	62 Vinyl Chloride
11	88	70	86	-5	24592	bb	1.43	94 Bromomethane
12	0	0	0	0	0		0.00	64 Chloroethane
13	0	0	0	0	0		0.00	101 Trichlorofluoromethane
14	0	0	0	0	0		0.00	96 1,1-Dichloroethene
15	<del>59</del>	<del>42</del>	<del>52</del>	<del>0</del>	<del>3836</del>	<del>bb</del>	<del>2.58</del>	142 Iodomethane
16	0	0	0	0	0		0.00	76 Carbon disulfide
17	80	55	87	4	17292	bv	2.69	43 acetone
18	0	0	0	0	0		0.00	41 Allyl chloride
19	100	99	100	-5	2311952	bv	3.01	84 Methylene chloride
20	0	0	0	0	0		0.00	53 Acrylonitrile
21	0	0	0	0	0		0.00	96 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.00	63 1,1-Dichloroethane
23	0	0	0	0	0		0.00	43 Vinyl acetate
24	0	0	0	0	0		0.00	77 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethene
26	<del>79</del>	<del>50</del>	<del>50</del>	<del>0</del>	<del>8592</del>	<del>A</del>	<del>4.45</del>	43 2-Butanone
27	0	0	0	0	0		0.00	83 Chloroform
28	0	0	0	0	0		0.00	128 Bromochloromethane
29	0	0	0	0	0		0.00	97 1,1,1-Trichloroethane
30	0	0	0	0	0		0.00	117 Carbon tetrachloride
31	0	0	0	0	0		0.00	75 1,1-Dichloropropene
32	100	97	97	0	355744	bv	5.21	78 Benzene
33	0	0	0	0	0		0.00	62 1,2-Dichloroethane
34	0	0	0	0	0		0.00	130 Trichloroethene
35	0	0	0	0	0		0.00	63 1,2-Dichloropropane
36	0	0	0	0	0		0.00	93 Dibromomethane
37	0	0	0	0	0		0.00	41 Methyl methacrylate
38	0	0	0	0	0		0.00	83 Bromodichloromethane
39	0	0	0	0	0		0.00	75 cis-1,3-Dichloropropene
40	<del>44</del>	<del>1</del>	<del>73</del>	<del>2</del>	<del>20292</del>	<del>A</del>	<del>7.62</del>	43 4-Methyl-2-pentanone
41	98	78	90	2	87876	bb	7.71	92 Toluene
42	0	0	0	0	0		0.00	75 trans-1,3-Dichloropropene
43	0	0	0	0	0		0.00	97 1,1,2-Trichloroethane
44	0	0	0	0	0		0.00	69 Ethyl methacrylate
45	0	0	0	0	0		0.00	164 Tetrachloroethene
46	0	0	0	0	0		0.00	76 1,3-Dichloropropane
47	<del>54</del>	<del>51</del>	<del>51</del>	<del>5</del>	<del>14988</del>	<del>A</del>	<del>7.11</del>	43 2-Hexanone
48	0	0	0	0	0		0.00	129 Dibromochloromethane
49	0	0	0	0	0		0.00	107 1,2-Dibromoethane
50	0	0	0	0	0		0.00	112 Chlorobenzene

Data Review: PAB  
Date: 8/10/98

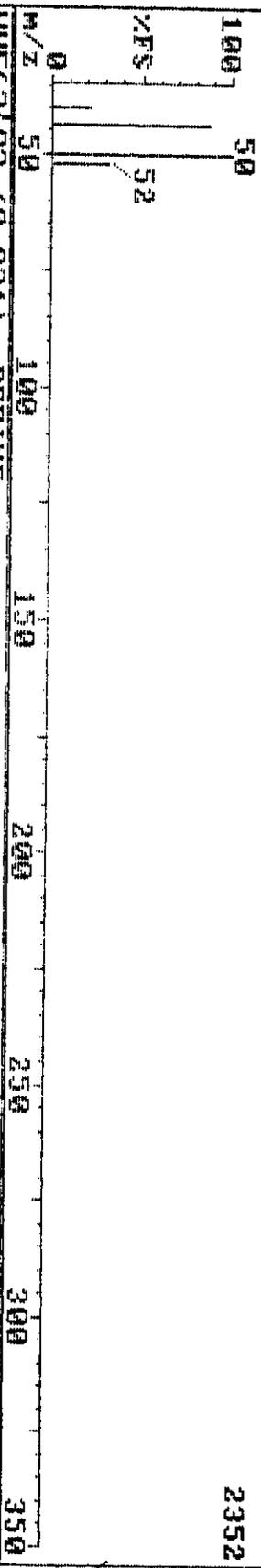
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51	0	0	0	0	0		0.00	131 1,1,1,2-Tetrachloroethan
52	<del>29</del>	<del>53</del>	<del>53</del>	<del>24</del>	<del>2628</del>	<del>bb</del>	<del>10.53</del>	106 Ethylbenzene
53	<del>63</del>	<del>52</del>	<del>52</del>	<del>1</del>	<del>2628</del>	<del>bb</del>	<del>10.53</del>	106 m-/p-Xylene
54	0	0	0	0	0		0.00	106 o-Xylene
55	98	78	85	2	39804	bb	11.30	104 Styrene
56	0	0	0	0	0		0.00	173 Bromoform
57	0	0	0	0	0		0.00	105 Cumene
58	0	0	0	0	0		0.00	83 1,1,2,2-Tetrachloroethan
59	0	0	0	0	0		0.00	156 Bromobenzene
60	0	0	0	0	0		0.00	75 1,2,3-Trichloropropane
61	0	0	0	0	0		0.00	120 n-Propylbenzene
62	23	10	46	-23	932608	A	12.25	75 trans-1,4-Dichloro-2-but
63	0	0	0	0	0		0.00	126 2-Chlorotoluene
64	0	0	0	0	0		0.00	126 4-Chlorotoluene
65	30	39	39	-16	880	bb	13.13	105 1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119 tert-Butylbenzene
67	54	39	50	2	28548	A	14.21	105 1,2,4-Trimethylbenzene
68	0	0	0	0	0		0.00	105 sec-Butylbenzene
69	0	0	0	0	0		0.00	119 p-Cymene
70	0	0	0	0	0		0.00	146 1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91 Benzyl chloride
73	0	0	0	0	0		0.00	91 n-Butylbenzene
74	0	0	0	0	0		0.00	146 1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75 1,2-Dibromo-3-chloroprop
76	0	0	0	0	0		0.00	180 1,2,4-Trichlorobenzene
77	0	0	0	0	0		0.00	225 Hexachlorobutadiene
78	41	31	73	16	101048	bv	19.32	128 Naphthalene
79	0	0	0	0	0		0.00	180 1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	-2	2423308	bv	5.02	168 Pentafluorobenzene
2	100	97	98	0	2207752	bb	5.74	114 1,4-Difluorobenzene
3	100	94	94	4	3233076	bv	9.95	117 Chlorobenzene-d5
4	100	82	98	4	2122609	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	98	100	1	1249872	bv	4.89	113 Dibromofluoromethane
6	100	94	98	1	3014892	bv	7.62	98 Toluene-d8
7	93	90	93	8	1794012	bv	12.25	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	39 1,3-Butadiene
9	0	0	0	0	0		0.00	106 Vinyl bromide
10	0	0	0	0	0		0.00	73 MTBE
11	100	94	94	-1	38900	bb	3.63	57 n-Hexane
12	0	0	0	0	0		0.00	42 1,2-Epoxybutane
13	0	0	0	0	0		0.00	57 Iso-Octane
14	0	0	0	0	0		0.00	55 Ethyl acrylate

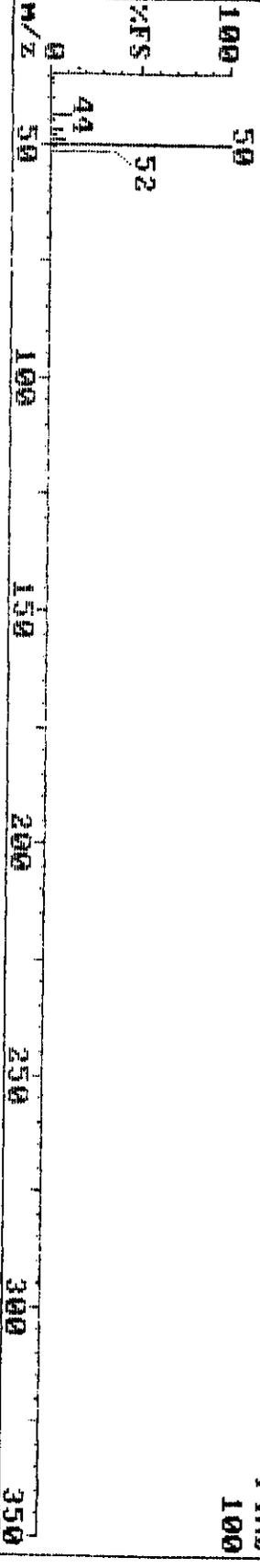
Data Review: PAB  
 Date: 8/10/98

08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
Sample: T-U-4-2-A T 214-27-21A T1146323

HM563 93 (0.930)



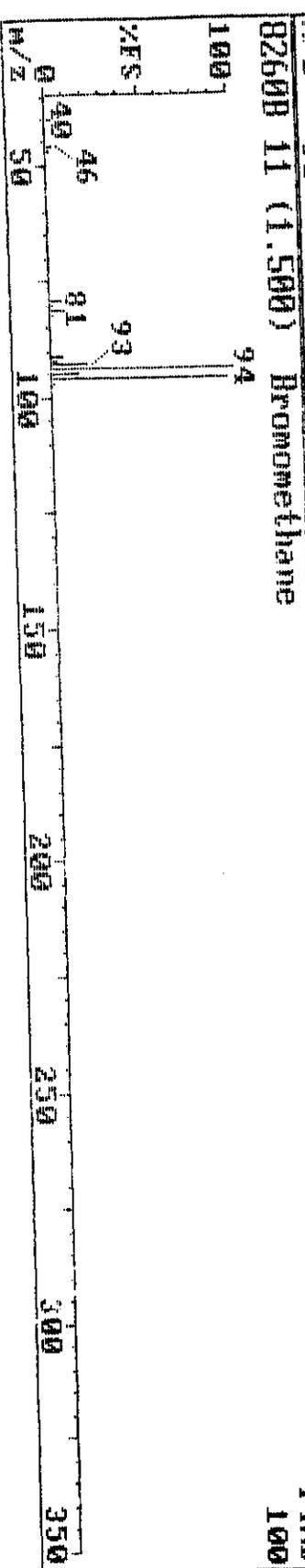
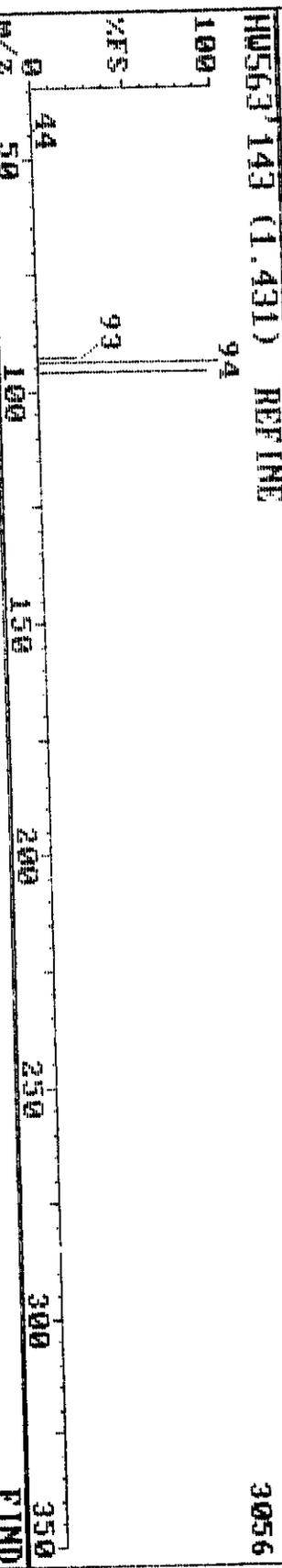
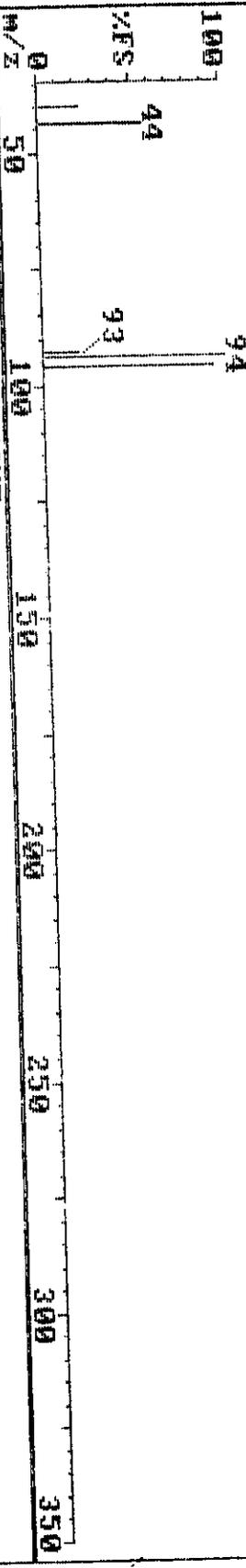
8260B 9 (0.990) Chloromethane



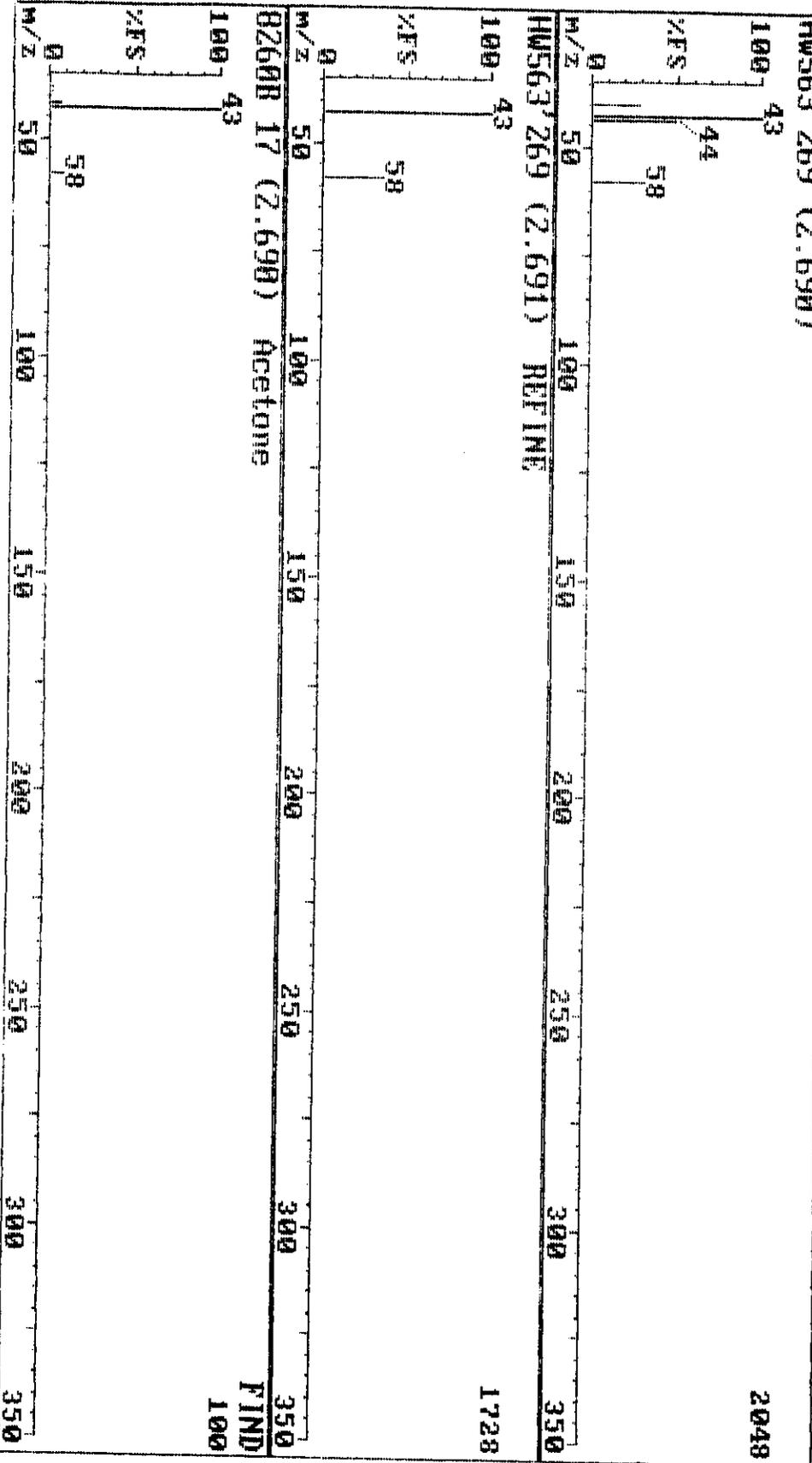
08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-Z-A T 214-27-21A TLW46323

HW563 143 (1.430) 3360

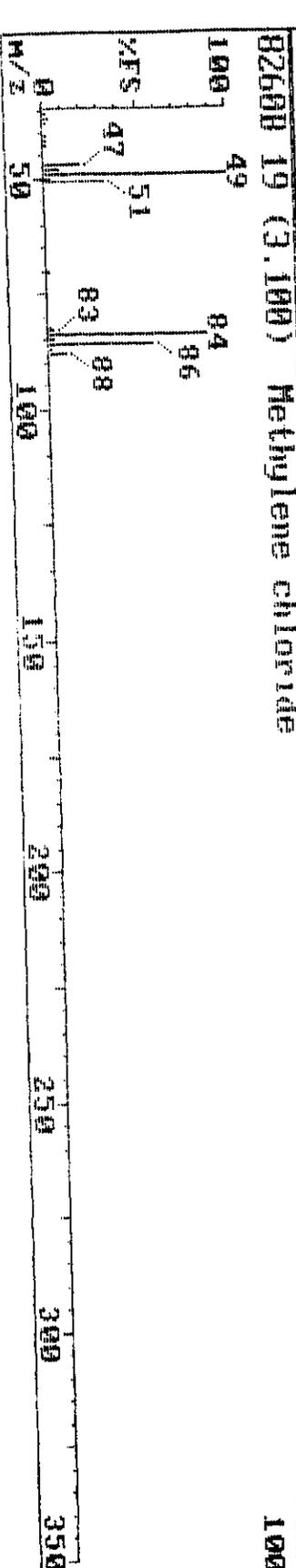
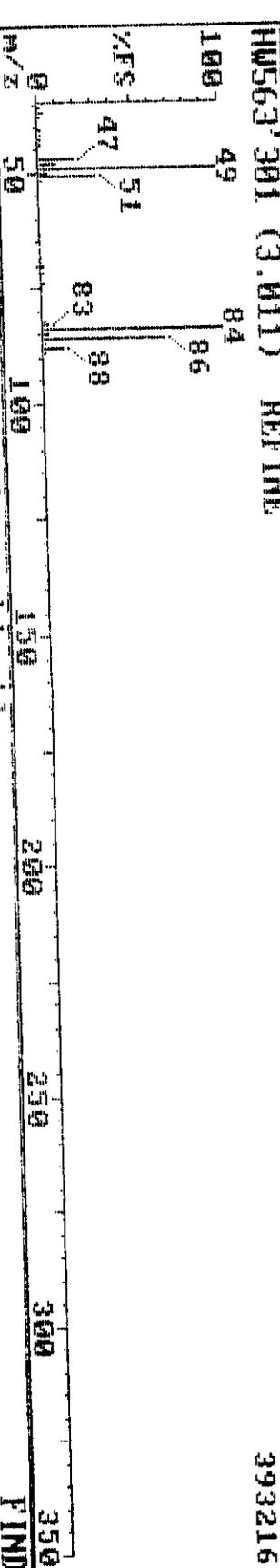
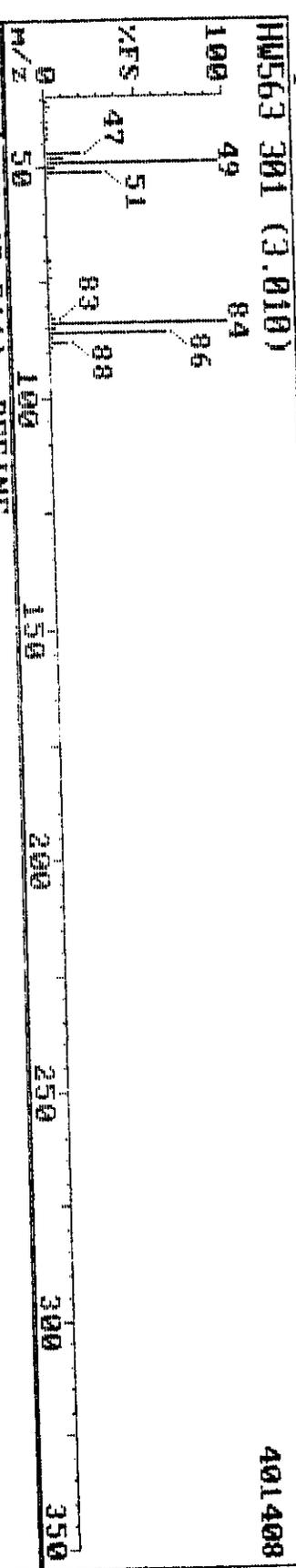


08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729  
 Sample: T-U-4-2-A T 214-27-21A TL1W46323 Instrument H



08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

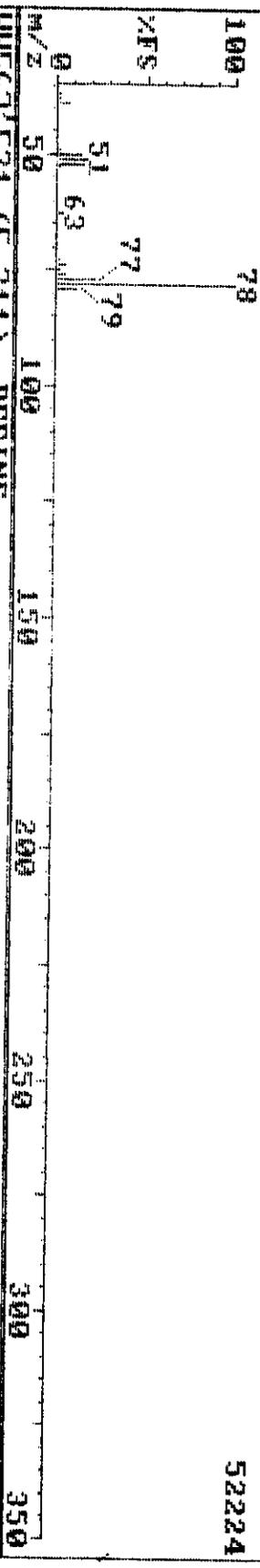
Sample: T-U-4-2-A T 214-27-21A T1#46323



08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-2-A T 214-27-21A TL#46323 Instrument H

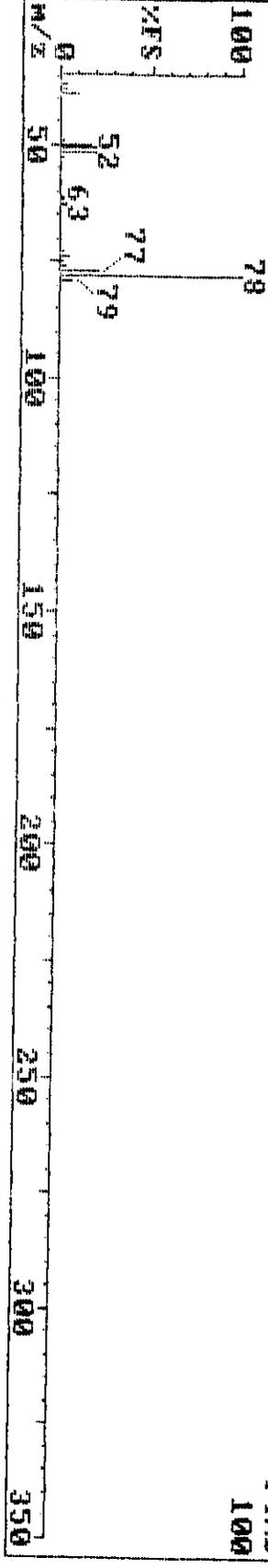
HM563 521 (5.211)



HM563 521 (5.211) REFINE

49920

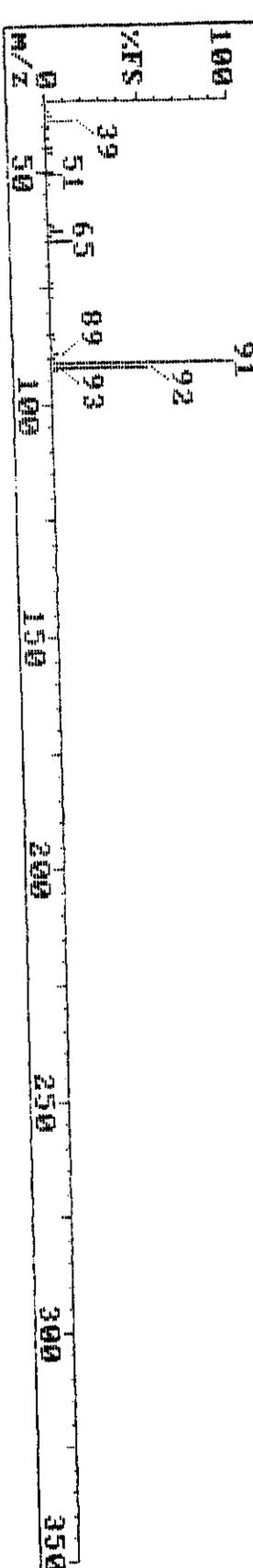
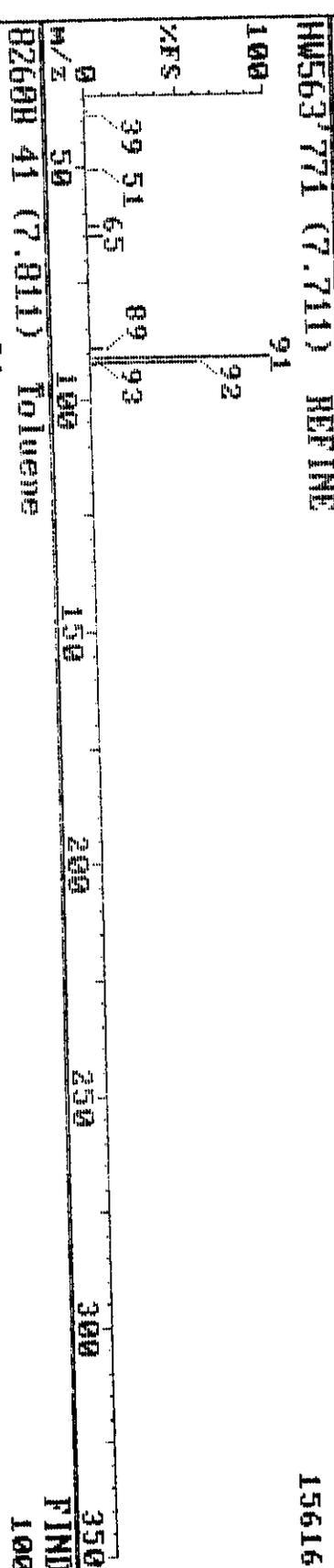
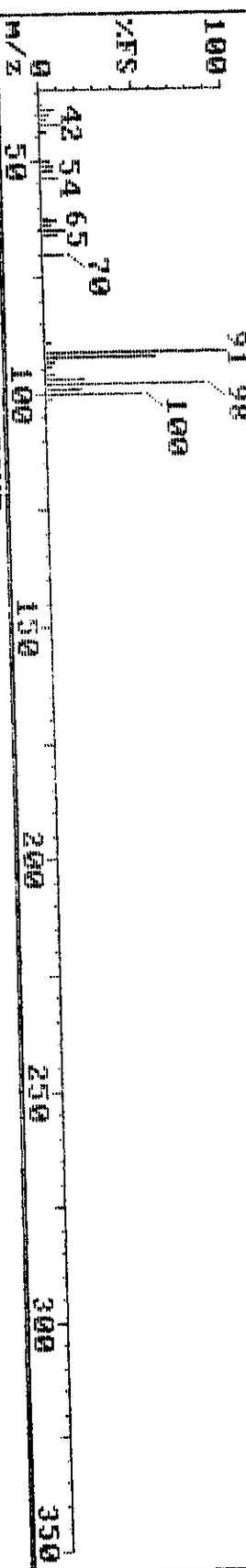
8260B 32 (5.291) Benzene



08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-2-A T 214-27-21A T1146323

HW563 771 (7.711) 17408



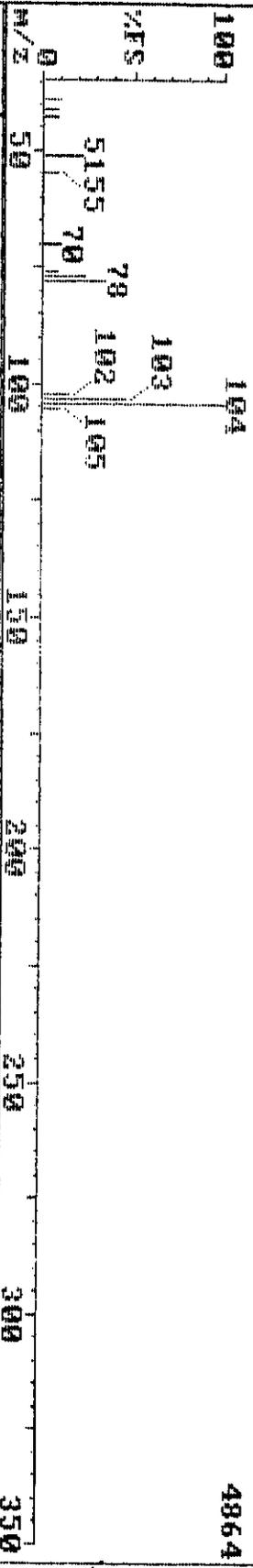
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Sample: T-U-4-2-A T 214-27-21A TLH46323

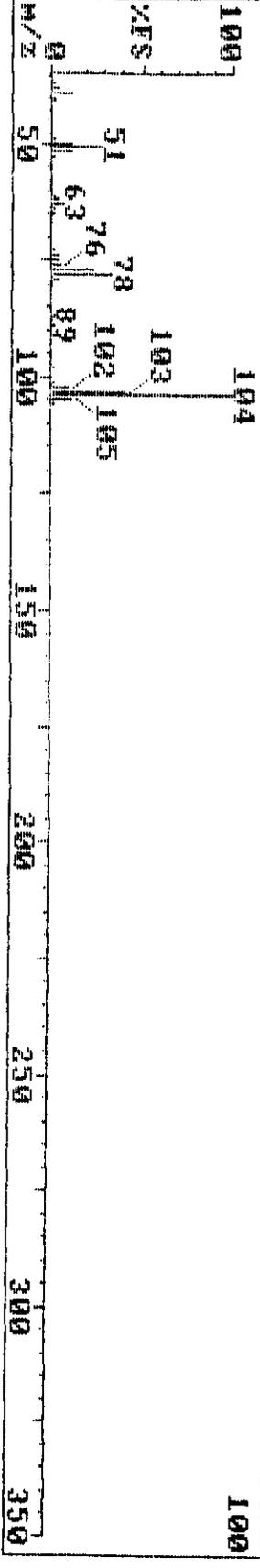
Instrument H

HM563 1130 (11.301)



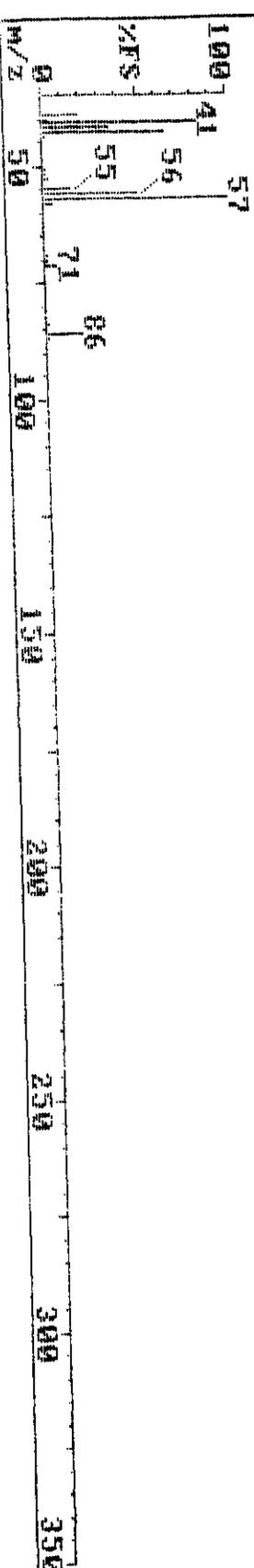
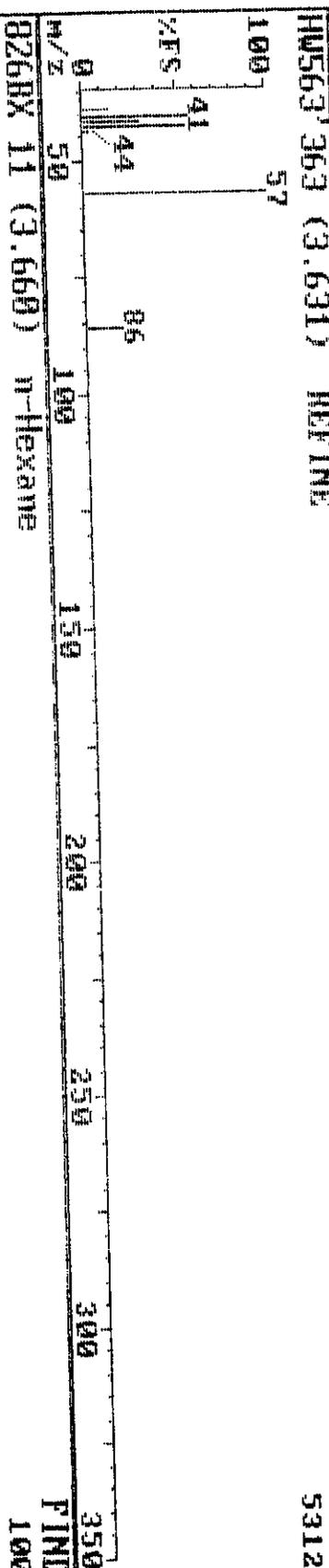
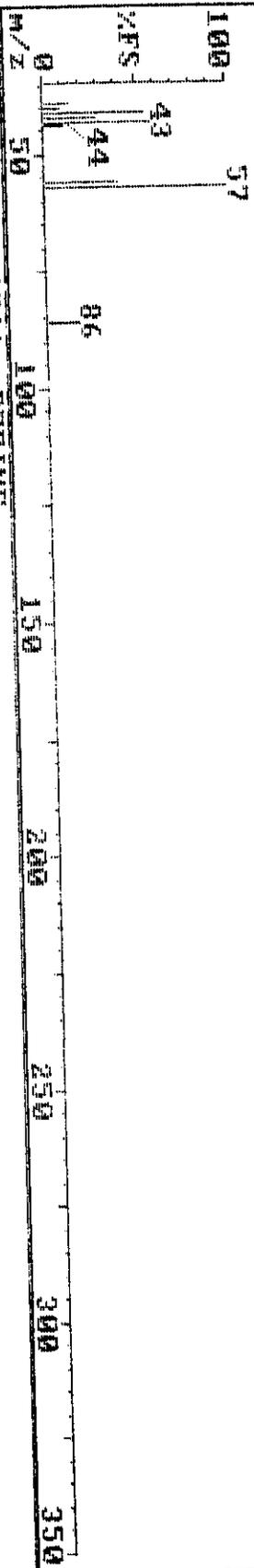
4160

HM563 1130 (11.301) REFINE



100

08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H  
 Sample: T-U-4-2-A T 214-27-21A TLH46323  
 HM563 363 (3.630) 5568



**Pacific Environmental Services**

Project Number: 46323  
Sample File: HW561

Method 8260 VOST  
Sample ID: T-V-4-2-B TC

Client Project: R012.001  
TLI ID: 214-27-21B

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed : 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
Chloromethane	0.015	BJ	0.97		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.004	BJ	1.46		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane	0.003	J	1.90		0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone	0.033	J	2.79		0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	1.666	BE	3.06		0.05
Acrylonitrile		U		0.006	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.77		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.015	BJ	5.23		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 16:11 08/10/1998

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Pacific Environmental Services

Project Number: 46323  
Sample File: HW561

Method 8260 VOST  
Sample ID: T-V-4-2-B TC

Client Project: R012.001  
TLI ID: 214-27-21B

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed : 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.002	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.007	BJ	7.75		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	9.96		0.05
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.10
m-/p-Xylene		U		0.001	0.05
o-Xylene		U		0.001	0.05
Styrene	0.001	BJ	11.31		0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.07		0.05
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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801 Capitoia Drive • Durham, North Carolina 27713  
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Savar v3.7  
Printed: 16:11 08/10/1998

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Pacific Environmental Services

Project Number: 46323

Sample File: HW561

Method 8260 VOST  
Sample ID: T-V-4-2-B TC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICA1H809

TLI ID: 214-27-21B

Date Analyzed : 08/09/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.252	4.91	1	101
Toluene-d <sub>8</sub>	0.267	7.65	2	107
4-Bromofluorobenzene	0.268	12.24	2	107

Reviewed by GAB Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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Savar v3.7

Printed: 16:11 08/10/1998

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**Pacific Environmental Services**

Project Number: 46323  
 Sample File: HW561

Method 8260 VOST  
 Sample ID: T-V-4-2-B TC

Client Project: R012.001  
 FLI ID: 214-27-21B

Date Received: 07/29/98

Response File: ICALH809

Date Analyzed: 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		0.25
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.002	0.25
n-Hexane	0.003	J	3.67		0.25
1,2-Epoxybutane		U		0.045	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	5.77		0.25
Ethyl acrylate		U		0.001	0.25

Reviewed by SAB Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

09-09-98 09:46

Triangle Laboratories, Inc.

(919) 544-5729

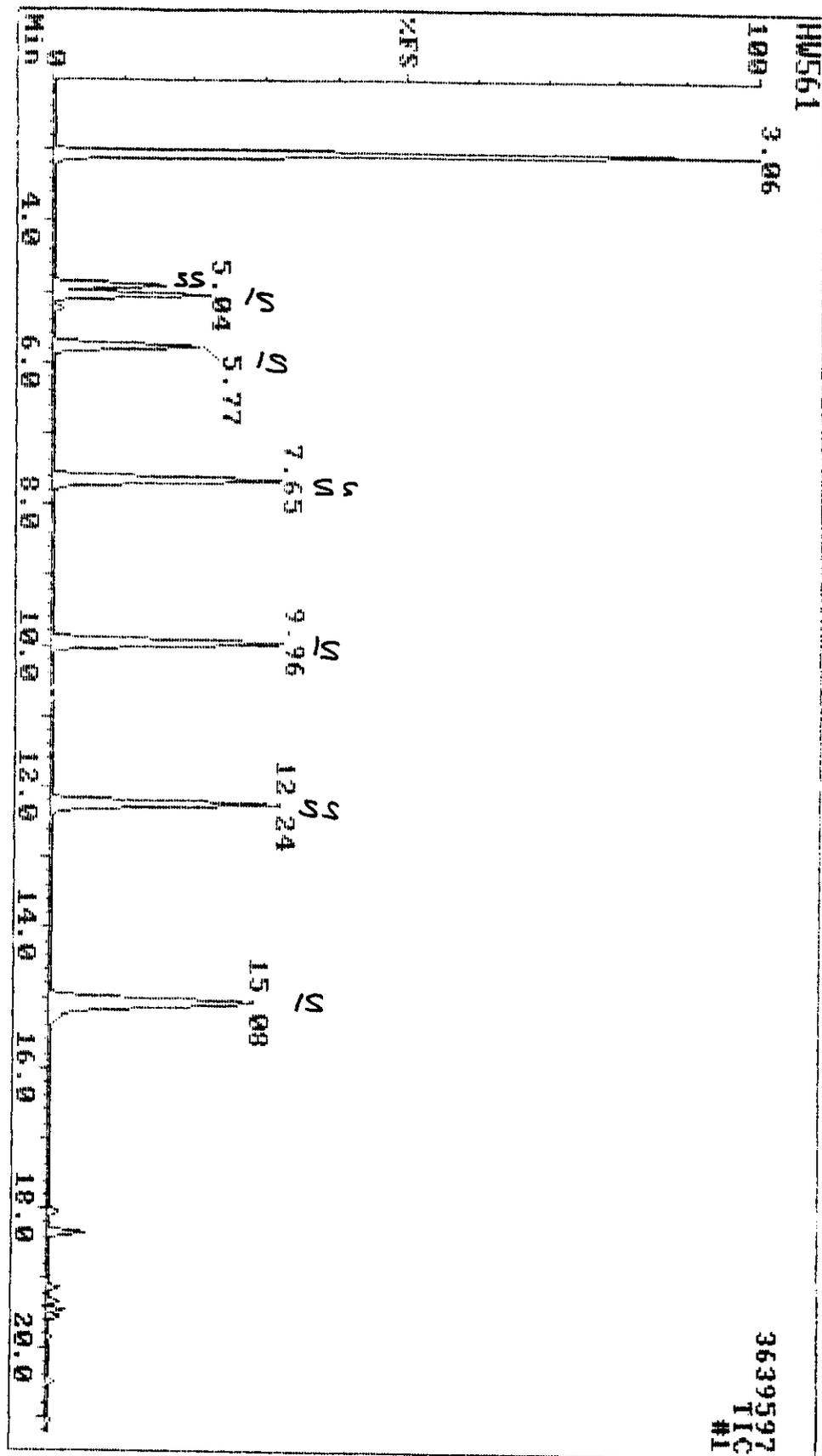
Sample: T-U-4-2-B T/C 214-27-21P TL1#46323

Instrument H

HW561

100% 3.06

3639597  
TIC  
#1



Data Review: *PaB*  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	-5	2231920	bv	5.04	168 Pentafluorobenzene
2	100	97	98	0	2360532	bv	5.77	114 1,4-Difluorobenzene
3	100	94	94	2	3394483	bv	9.96	117 Chlorobenzene-d5
4	100	82	98	-7	2297468	bv	15.07	152 1,4-Dichlorobenzene-d4
5	100	98	100	0	1196840	bv	4.91	113 Dibromofluoromethane
6	100	93	98	1	3536848	bv	7.65	98 Toluene-d8
7	100	89	92	3	1901224	bv	12.24	95 4-Bromofluorobenzene
8	100	65	99	-1	1172140	vv	0.75	85 Dichlorodifluoromethane
9	100	84	87	-1	49364	bv	0.97	50 Chloromethane
10	0	0	0	0	0		0.00	62 Vinyl Chloride
11	76	50	78	-2	14012	bb	1.46	94 Bromomethane
12	0	0	0	0	0		0.00	64 Chloroethane
13	87	59	83	-1	30852	bb	1.90	101 Trichlorofluoromethane
14	0	0	0	0	0		0.00	96 1,1-Dichloroethene
15	0	0	0	0	0		0.00	142 Iodomethane
16	<del>60</del>	<del>53</del>	<del>60</del>	<del>-1</del>	<del>17572</del>	<del>bb</del>	<del>2.73</del>	76 Carbon disulfide
17	<del>52</del>	<del>31</del>	<del>84</del>	<del>13</del>	<del>14906</del>	<del>bb</del>	<del>2.79</del>	43 Acetone
18	0	0	0	0	0		0.00	41 Allyl chloride
19	100	99	100	-1	5265536	bv	3.06	84 Methylene chloride
20	0	0	0	0	0		0.00	53 Acrylonitrile
21	0	0	0	0	0		0.00	96 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.00	63 1,1-Dichloroethane
23	0	0	0	0	0		0.00	43 Vinyl acetate
24	0	0	0	0	0		0.00	77 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethene
26	<del>65</del>	<del>57</del>	<del>57</del>	<del>3</del>	<del>6092</del>	<del>bv</del>	<del>4.53</del>	43 2-Butanone
27	0	0	0	0	0		0.00	83 Chloroform
28	0	0	0	0	0		0.00	128 Bromochloromethane
29	0	0	0	0	0		0.00	97 1,1,1-Trichloroethane
30	0	0	0	0	0		0.00	117 Carbon tetrachloride
31	0	0	0	0	0		0.00	75 1,1-Dichloropropene
32	100	95	95	-1	166824	bb	5.23	78 Benzene
33	0	0	0	0	0		0.00	62 1,2-Dichloroethane
34	0	0	0	0	0		0.00	130 Trichloroethene
35	0	0	0	0	0		0.00	63 1,2-Dichloropropane
36	0	0	0	0	0		0.00	93 Dibromomethane
37	0	0	0	0	0		0.00	41 Methyl methacrylate
38	0	0	0	0	0		0.00	83 Bromodichloromethane
39	0	0	0	0	0		0.00	75 cis-1,3-Dichloropropene
40	<del>44</del>	<del>3</del>	<del>71</del>	<del>2</del>	<del>16480</del>	<del>bb</del>	<del>7.65</del>	43 4-Methyl-2-pentanone
41	98	74	90	2	65004	bb	7.75	92 Toluene
42	0	0	0	0	0		0.00	75 trans-1,3-Dichloropropene
43	0	0	0	0	0		0.00	97 1,1,2-Trichloroethane
44	0	0	0	0	0		0.00	69 Ethyl methacrylate
45	0	0	0	0	0		0.00	164 Tetrachloroethene
46	0	0	0	0	0		0.00	76 1,3-Dichloropropane
47	<del>25</del>	<del>12</del>	<del>44</del>	<del>14</del>	<del>14352</del>	<del>bb</del>	<del>7.13</del>	43 2-Hexanone
48	0	0	0	0	0		0.00	129 Dibromochloromethane
49	0	0	0	0	0		0.00	107 1,2-Dibromoethane
50	0	0	0	0	0		0.00	112 Chlorobenzene

Data Review: PAB  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
51	0	0	0	0	0		0.00	131 1,1,1,2-Tetrachloroethan
52	<del>29</del>	<del>54</del>	<del>54</del>	<del>23</del>	<del>2152</del>	<del>A</del>	<del>10.52</del>	106 Ethylbenzene
53	<del>63</del>	<del>52</del>	<del>52</del>	<del>1</del>	<del>2152</del>	<del>A</del>	<del>10.52</del>	106 m-/p-Xylene
54	0	0	0	0	0		0.00	106 o-Xylene
55	83	70	70	2	15088	bb	11.31	104 Styrene
56	0	0	0	0	0		0.00	173 Bromoform
57	0	0	0	0	0		0.00	105 Cumene
58	0	0	0	0	0		0.00	83 1,1,2,2-Tetrachloroethan
59	0	0	0	0	0		0.00	156 Bromobenzene
60	0	0	0	0	0		0.00	75 1,2,3-Trichloropropane
61	0	0	0	0	0		0.00	120 n-Propylbenzene
62	0	0	0	0	0		0.00	75 trans-1,4-Dichloro-2-but
63	0	0	0	0	0		0.00	126 2-Chlorotoluene
64	0	0	0	0	0		0.00	126 4-Chlorotoluene
65	30	39	39	-16	1164	bb	13.12	105 1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119 tert-Butylbenzene
67	60	53	53	4	15736	A	14.21	105 1,2,4-Trimethylbenzene
68	64	54	54	2	408	bb	14.75	105 sec-Butylbenzene
69	0	0	0	0	0		0.00	119 p-Cymene
70	0	0	0	0	0		0.00	146 1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91 Benzyl chloride
73	0	0	0	0	0		0.00	91 n-Butylbenzene
74	0	0	0	0	0		0.00	146 1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75 1,2-Dibromo-3-chloroprop
76	62	81	91	18	56220	bb	19.13	180 1,2,4-Trichlorobenzene
77	31	10	75	18	6272	bb	19.34	225 Hexachlorobutadiene
78	53	63	78	18	135676	bv	19.33	128 Naphthalene
79	61	79	90	18	53196	bb	19.54	180 1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	0	2231920	bv	5.04	168 Pentafluorobenzene
2	100	97	98	1	2360532	bv	5.77	114 1,4-Difluorobenzene
3	100	94	94	0	3394483	bv	9.96	117 Chlorobenzene-d5
4	100	82	98	2	2297468	bv	15.07	152 1,4-Dichlorobenzene-d4
5	100	98	100	1	1196840	bv	4.91	113 Dibromofluoromethane
6	100	93	98	0	3536848	bv	7.65	98 Toluene-d8
7	100	89	92	1	1901224	bv	12.24	95 4-Bromofluorobenzene
8	0	0	0	0	0		0.00	39 1,3-Butadiene
9	0	0	0	0	0		0.00	106 Vinyl bromide
10	0	0	0	0	0		0.00	73 MTBE
11	100	84	84	1	19384	bb	3.67	57 n-Hexane
12	0	0	0	0	0		0.00	42 1,2-Epoxybutane
13	0	0	0	0	0		0.00	57 Iso-Octane
14	0	0	0	0	0		0.00	55 Ethyl acrylate

08-09-98 09:46

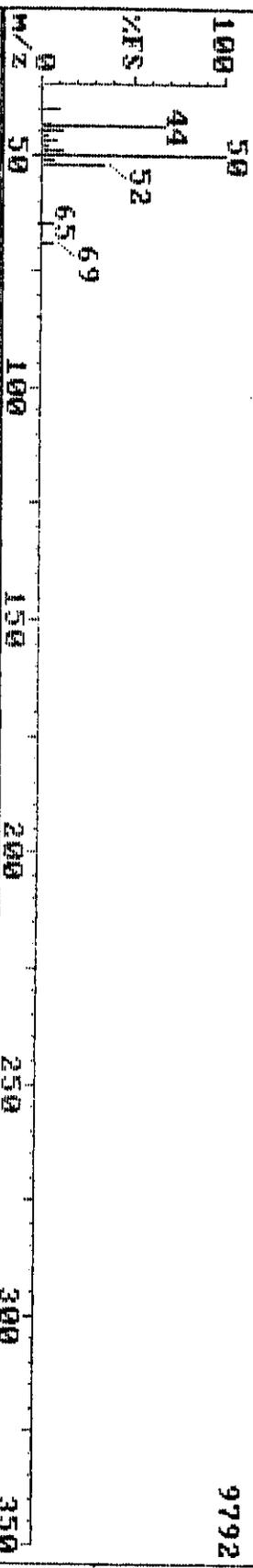
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-2-B T/C 214-27-21D TL1#46323

Instrument H

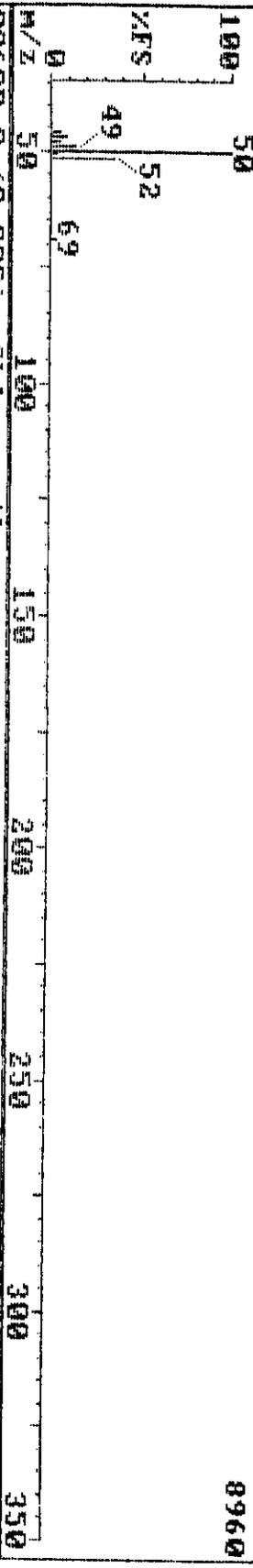
HM561 97 (0.970)

9792



HM561 97 (0.971) REFINE

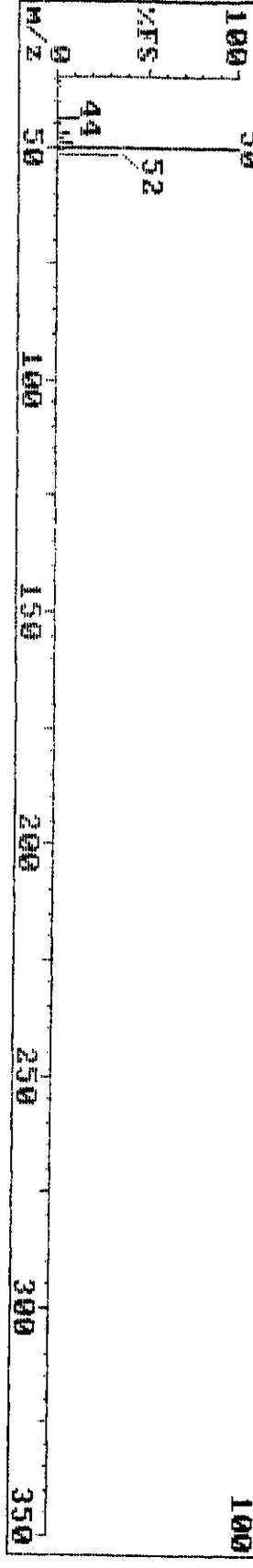
8960



BZ60B 9 (0.990) Chloromethane

FIND

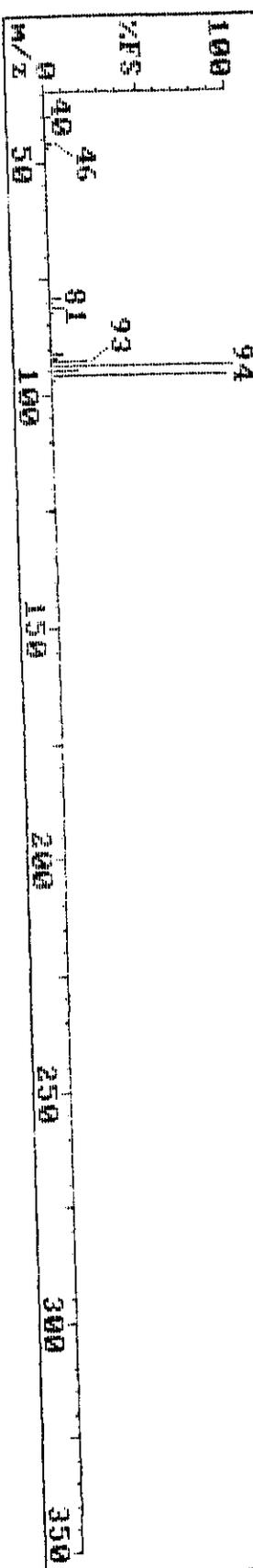
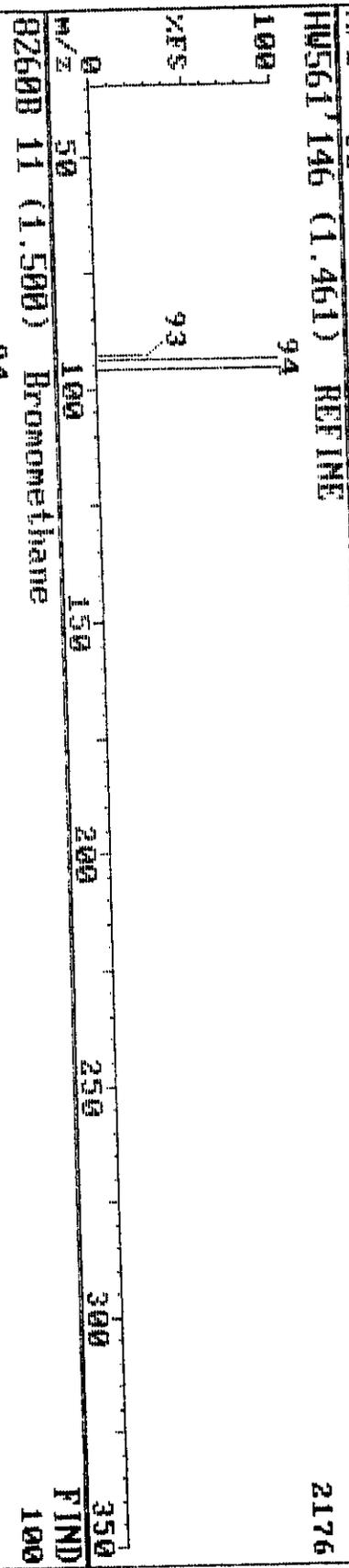
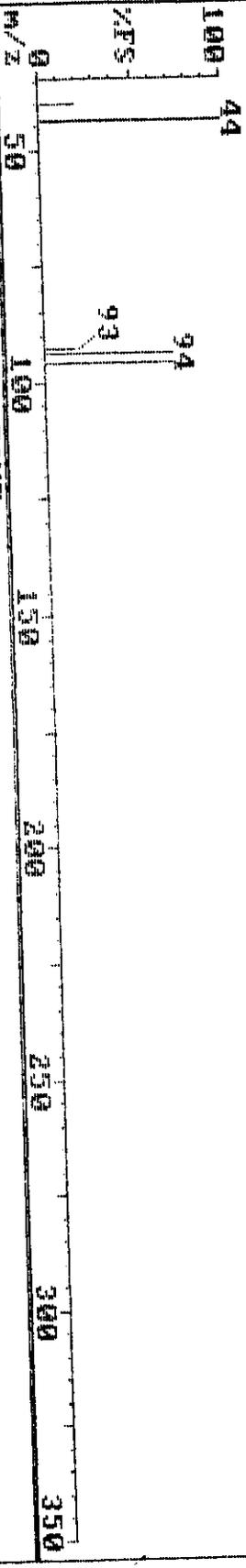
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08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-2-B T/C 214-27-21B TLM46323

HW561 146 (1.460) 3328



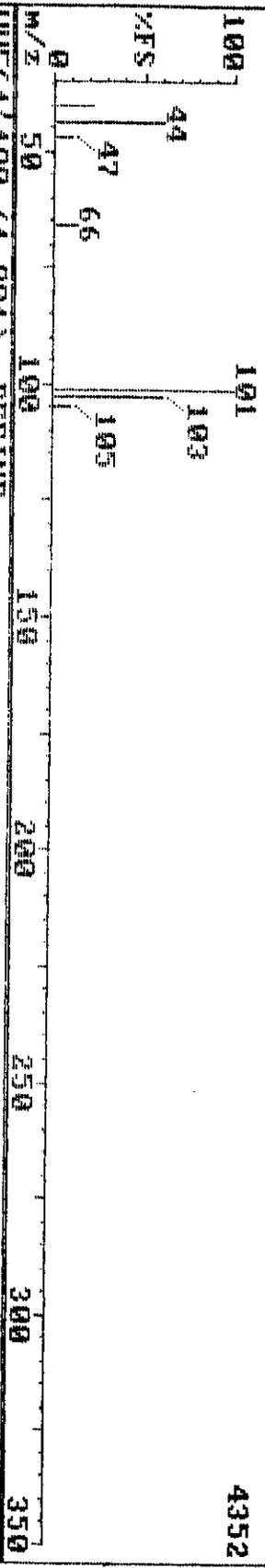
08-09-98 09:46

Triangle Laboratories, Inc. (919) 544-5729

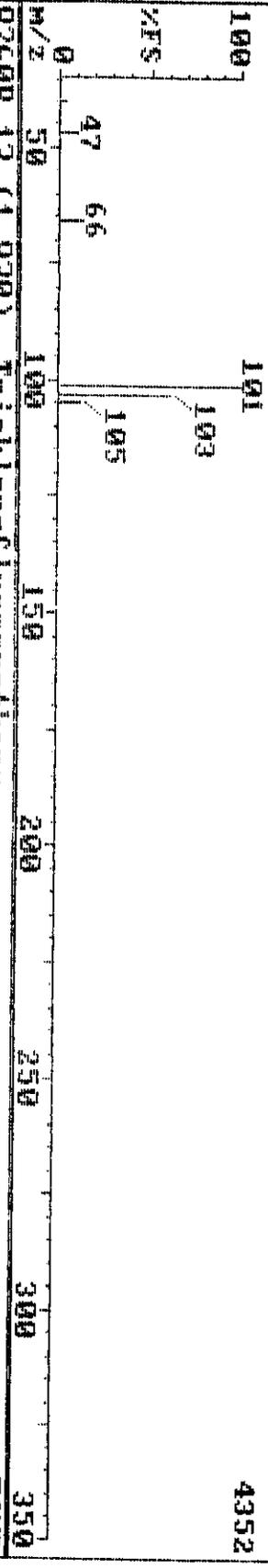
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Instrument H

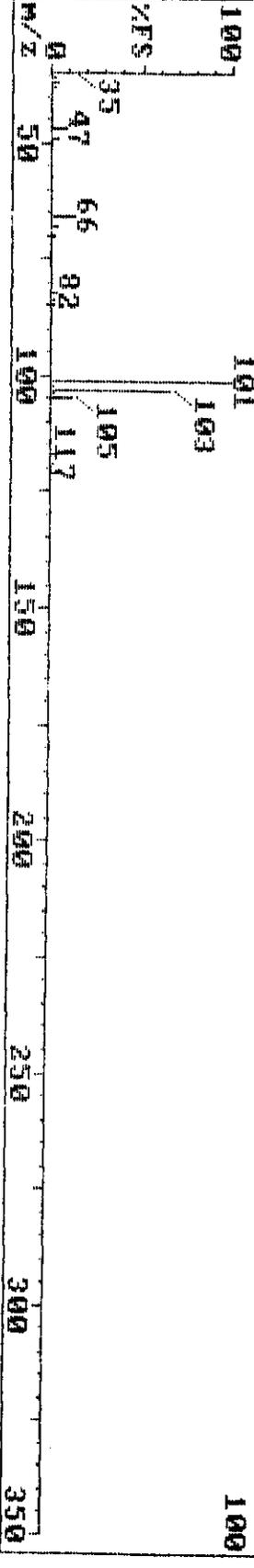
HM561 190 (1.900)



HM561 190 (1.901) REFINE



82608 13 (1.930) Trichlorofluoromethane



09-Aug-98 09:46

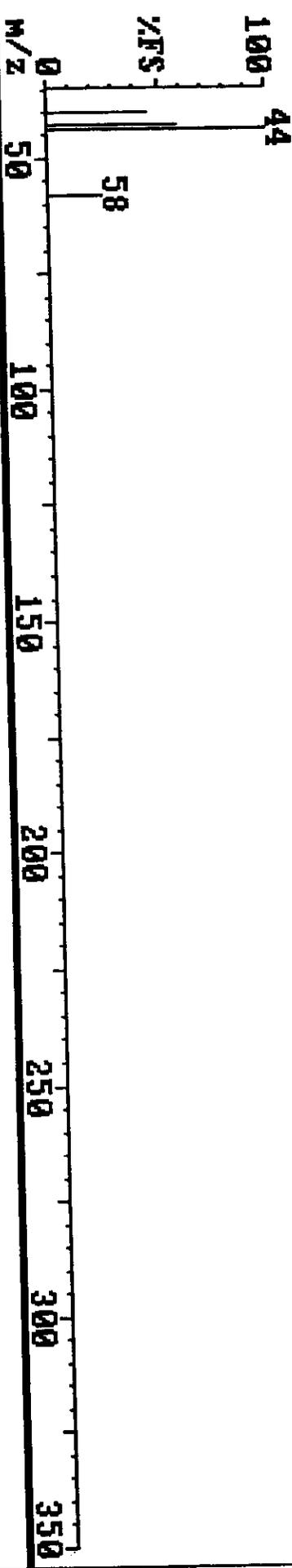
Triangle Laboratories, Inc. (919) 544-5729

Instrument H

Sample: T-U-4-2-B T/C 214-27-21B TL#46323

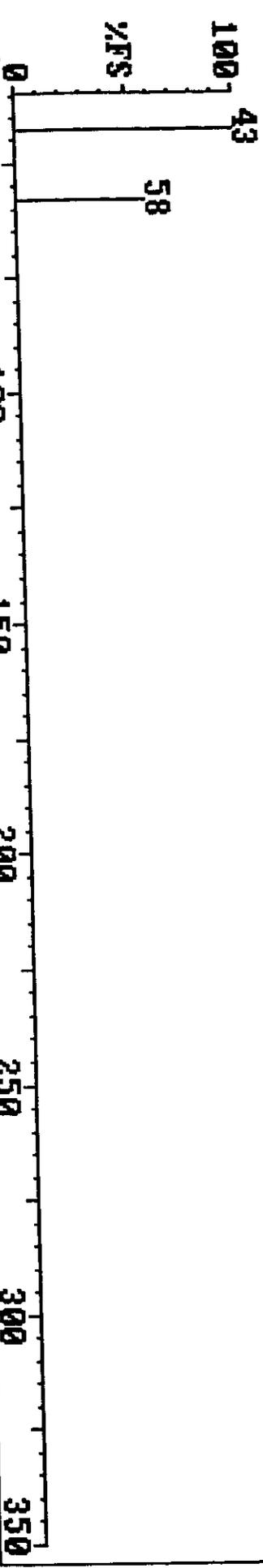
HM561 277 (2.770)

1600



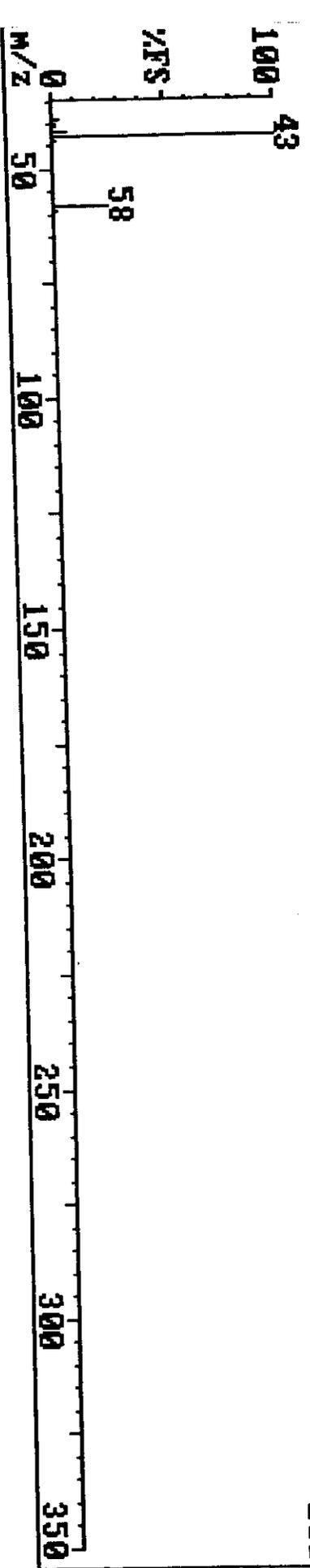
HM561 277 (2.771) REFINE

660



MASTER 20 (3.370) Acetone

FIND 100



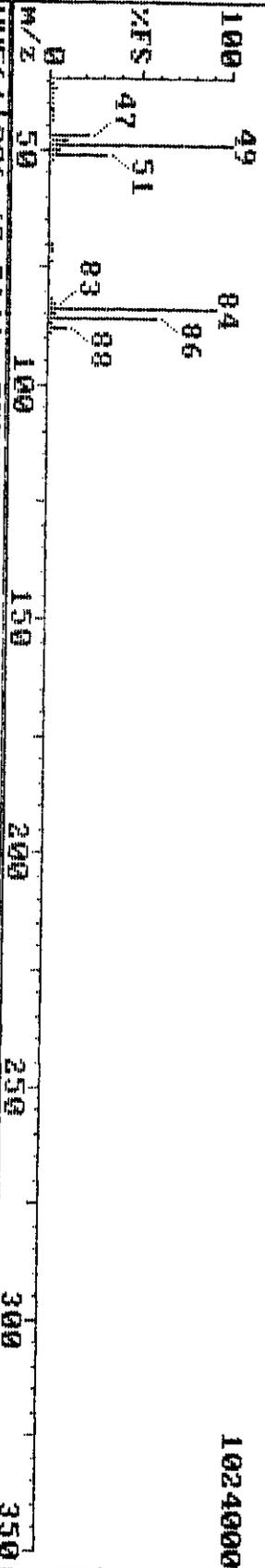
08-09-98 09:46

Triangle Laboratories, Inc. (919) 544-5729

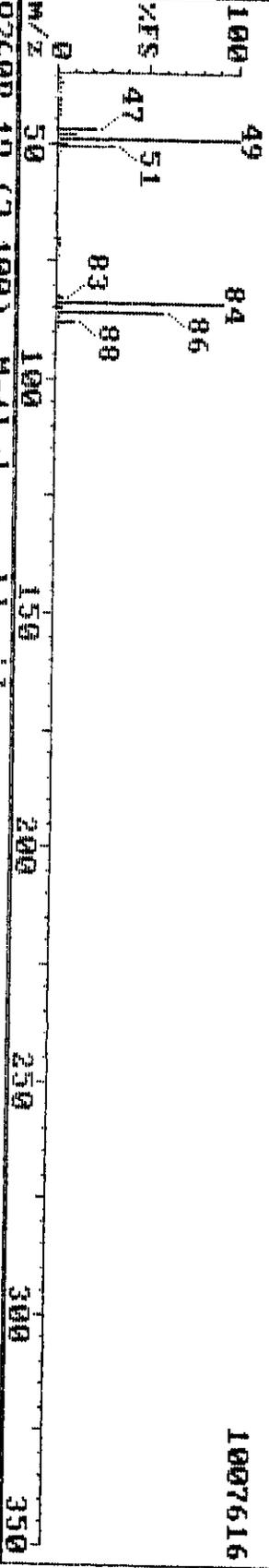
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Instrument H

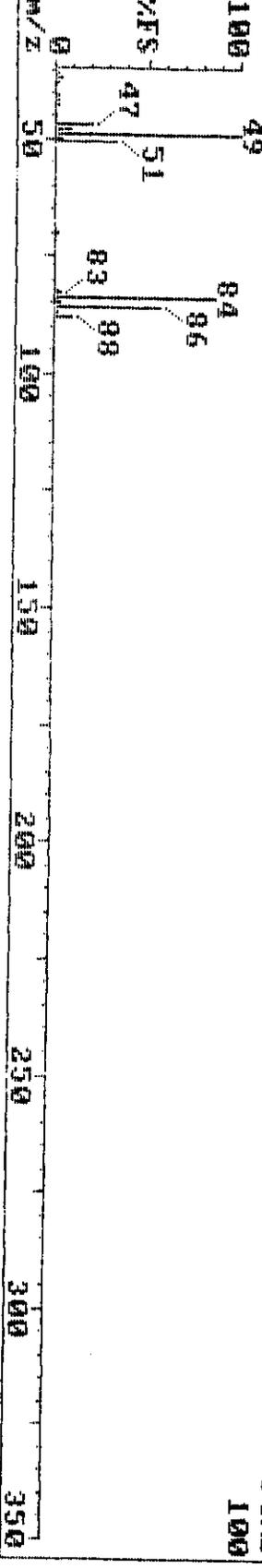
HW561 306 (3.060)



HW561 306 (3.061) REFINE



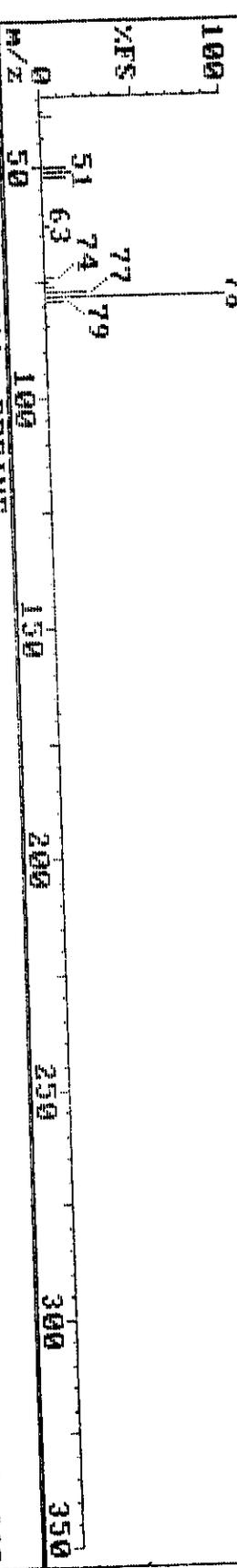
8260B 19 (3.100) Methylene chloride



08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

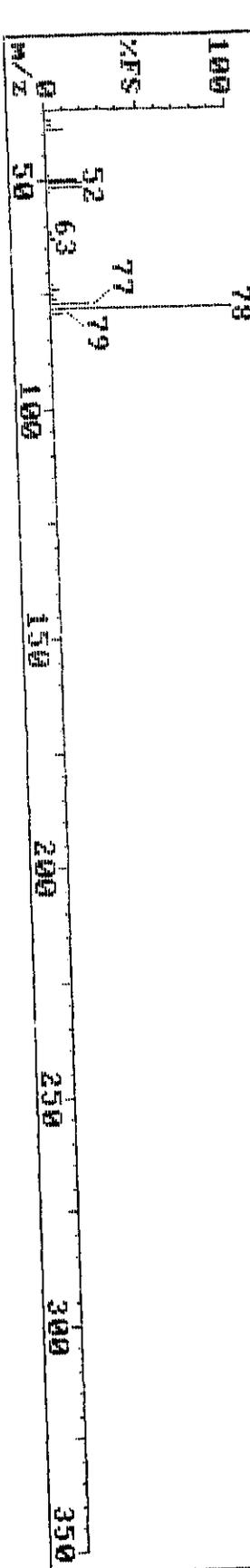
Sample: T-U-4-2-B T/C 214-27-21B TL1446323

HM561 523 (5.231) 24320



HM561 523 (5.231) REFINE 23040

02608 32 (5.291) Benzene



08-09-98 09:46

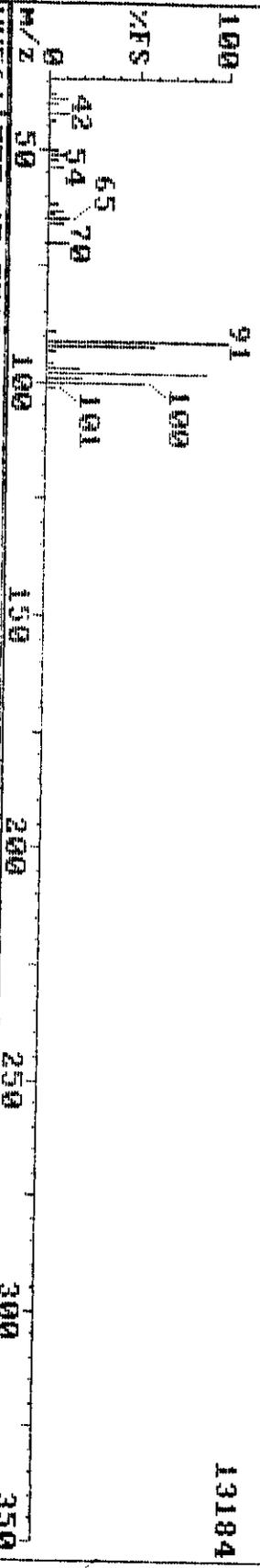
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-2-B T/C 214-27-21M TL1#46323

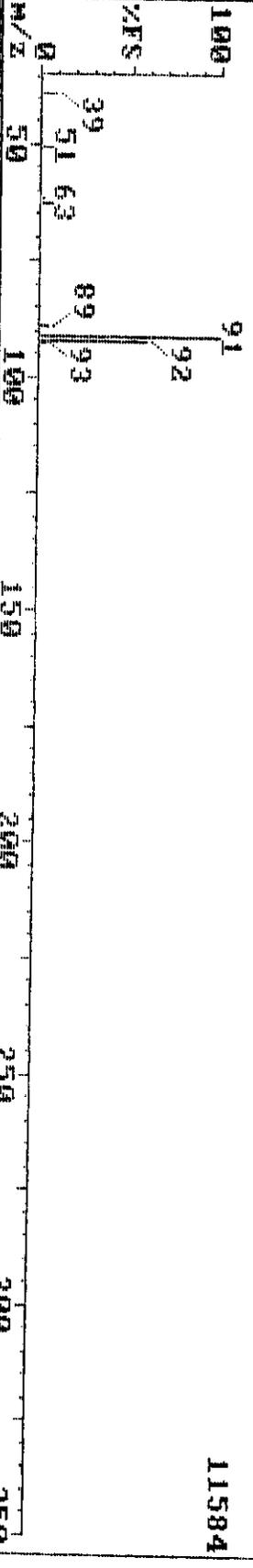
Instrument H

HW561 775 (7.751)



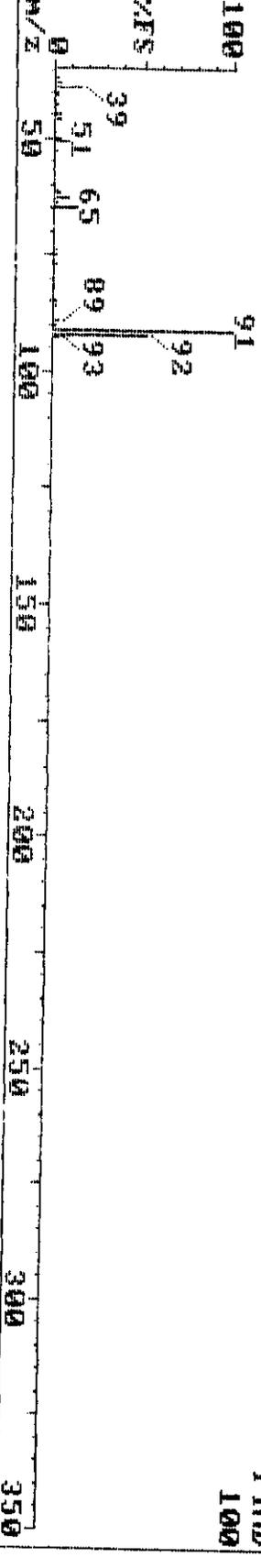
13184

HW561 775 (7.751) REFINE



11584

02608 41 (7.811) Toluene

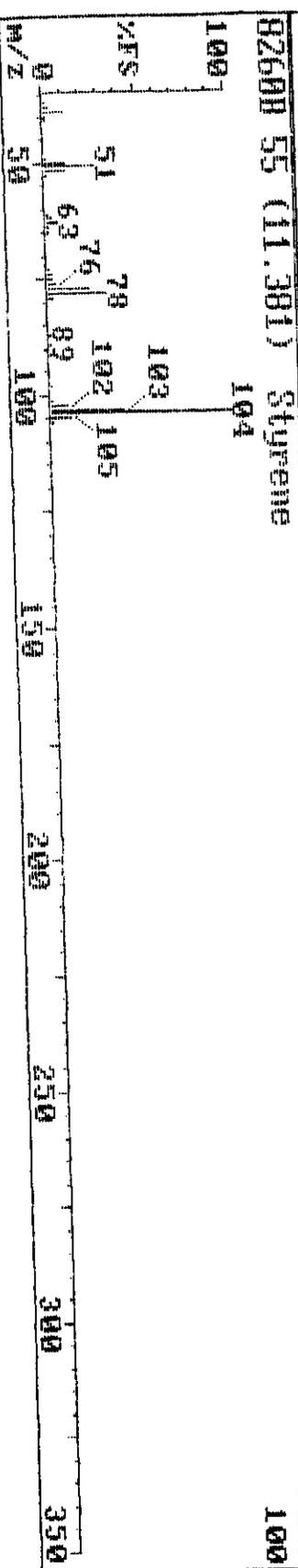
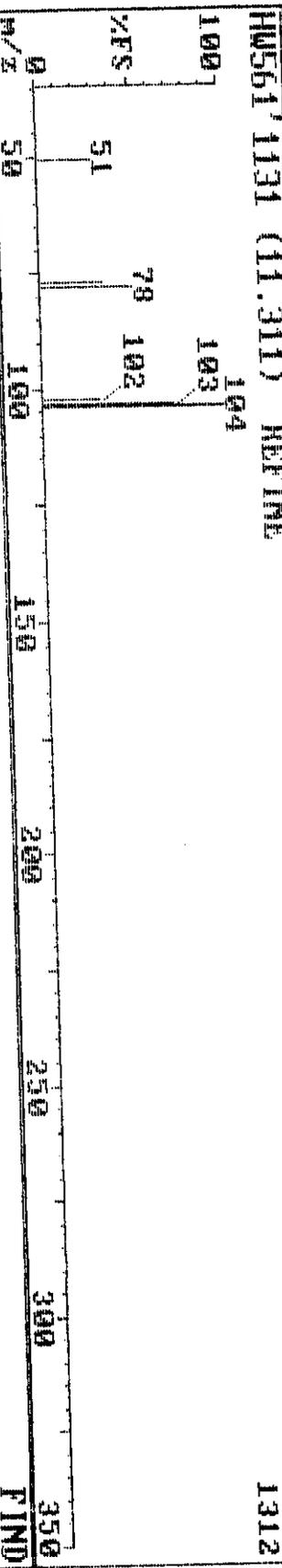
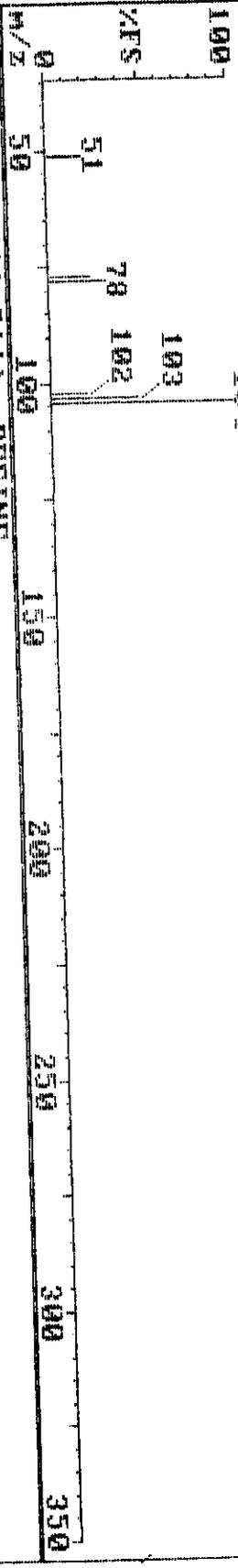


FIND  
100

08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-2-B T/C 244-27-21B TLH46323

HW561 1131 (11.311) 1936



08-09-98 09:46

Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-2-D T/C 214-27-21R TLM46323

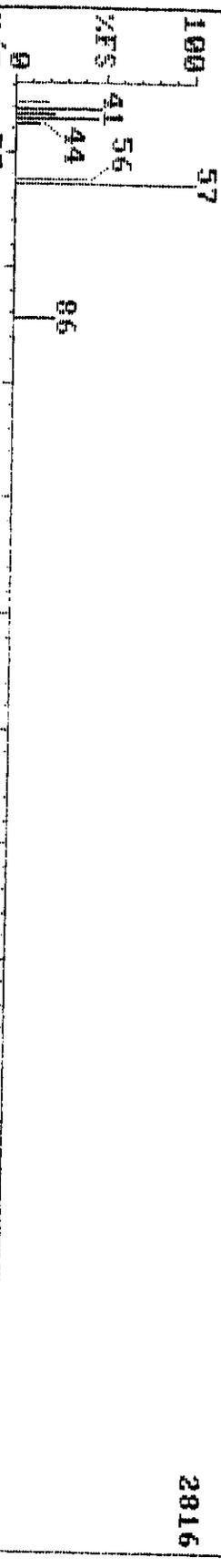
Instrument H

HM561 367 (3.670)



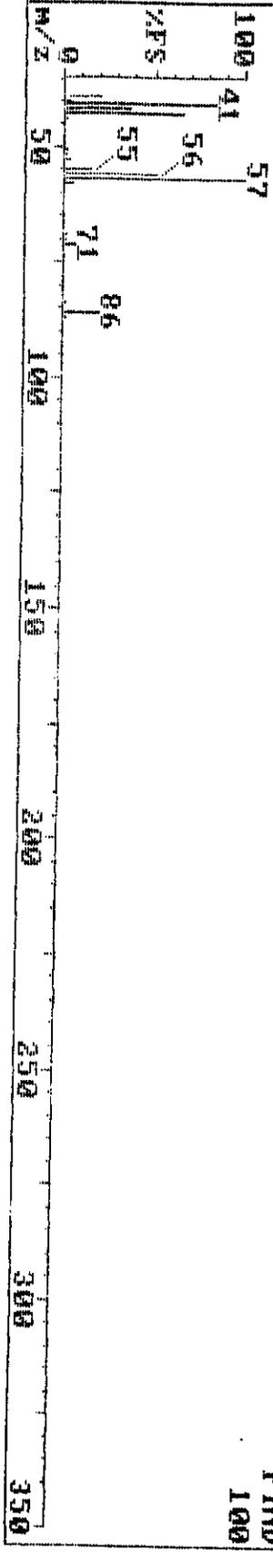
2816

HM561 367 (3.671) REFINE



2816

B26BX 11 (3.660) n-Hexane



FIND 100

**Pacific Environmental Services**

**Project Number: 46323**  
**Sample File: FX983**

**Method 8260 VOST**  
**Sample ID: T-V-4-4-A T**

**Client Project: R012.001**  
**TLI ID: 214-27-23A**

**Date Received: 07/29/98**

**Response File: ICALF821**

**Date Analyzed : 08/24/98**

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.009	J	3.28		0.05
Acrylonitrile		U		0.021	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.004	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.071		5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46323

Sample File: FX983

Method 8260 VOST

Sample ID: T-V-4-4-A T

Client Project: R012.001

TLI ID: 214-27-23A

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.005	0.05
Toluene	0.158		8.09		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.35		
Tetrachloroethene	0.022	J	8.92		0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene	0.022	J	10.67		0.05
m-/p-Xylene	0.057	J	10.91		0.10
o-Xylene	0.024	J	11.62		0.05
Styrene	0.009	J	11.69		0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.71		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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Printed: 16:49 08/25/1998

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Pacific Environmental Services

Project Number: 46323  
Sample File: FX983

Method 8260 VOST  
Sample ID: T-V-4-4-A T

Client Project: R012.001  
TLI ID: 214-27-23A

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.208	5.18	1	83
Toluene-d <sub>8</sub>	0.259	8.00	2	104
4-Bromofluorobenzene	0.256	12.65	2	102

Reviewed by

PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Printed: 16:49 08/25/1998

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Pacific Environmental Services

Project Number: 46323  
Sample File: FX983

Method 8260 VOST  
Sample ID: T-V-4-3-4A <sup>EMC</sup>

Client Project: R012.001  
TLI ID: 214-27-23A

Date Received: 07/29/98

Response File: ICALF824

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE	0.037	J	3.63		0.25
n-Hexane	0.041	J	3.90		0.25
1,2-Epoxybutane		U		0.025	0.25
Iso-Octane	0.010	J	5.67		0.25
1,4-Difluorobenzene		IS 2	6.07		
Ethyl acrylate		U		0.007	0.25

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

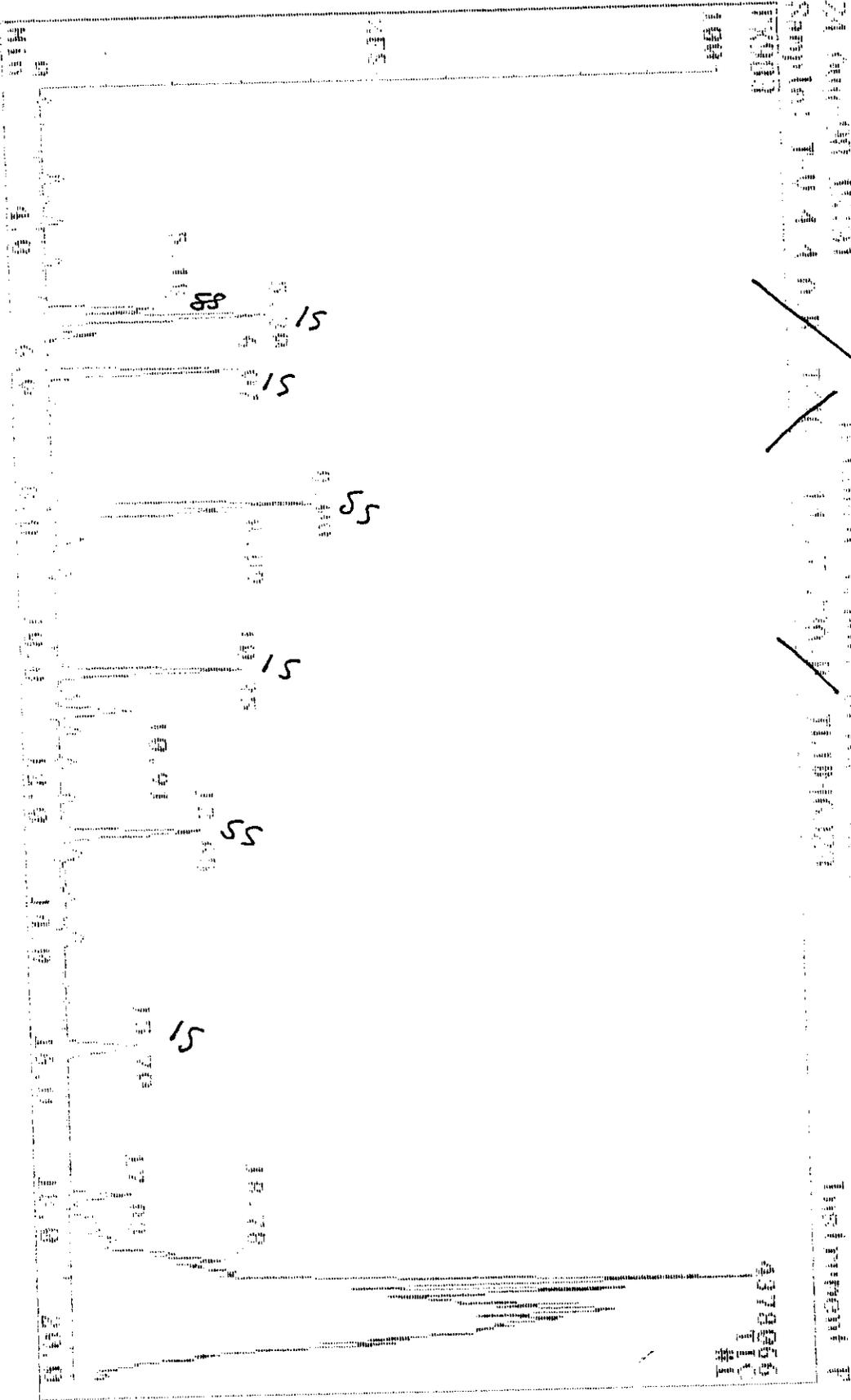
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Printed: 17:27 08/25/1998

486

283



487

Data Review: PAB  
Date: 8/24/98



NO.	DATE	FOR	RATE	DEBIT	AMOUNT	DESCRIPTION
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13	100	25	11	11	11.5136	11.5136
14	10	1	11	0	11.5136	11.5136
15	0	1	0	0	11.5136	11.5136
16	0	0	0	0	11.5136	11.5136
17	0	0	0	0	11.5136	11.5136
18	0	0	0	0	11.5136	11.5136
19	0	0	0	0	11.5136	11.5136
20	0	0	0	0	11.5136	11.5136
21	11	4	11	2	11.5136	11.5136
22	1	1	0	0	11.5136	11.5136
23	0	0	0	0	11.5136	11.5136
24	1	1	0	0	11.5136	11.5136
25	1	1	0	0	11.5136	11.5136
26	1	1	0	0	11.5136	11.5136
27	1	1	0	0	11.5136	11.5136
28	1	1	0	0	11.5136	11.5136
29	1	1	0	0	11.5136	11.5136
30	1	1	0	0	11.5136	11.5136
31	1	1	0	0	11.5136	11.5136
32	1	1	0	0	11.5136	11.5136
33	1	1	0	0	11.5136	11.5136
34	1	1	0	0	11.5136	11.5136

11.5136 - 10 Pairs

~~11.69~~



24-Aug-98 15:31

Triangle Laboratories, Inc.

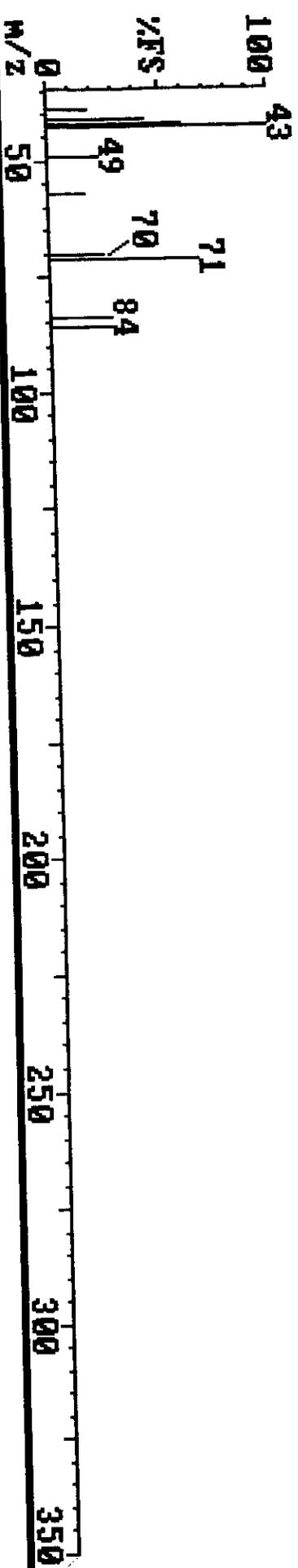
(919) 544-5729

Instrument F

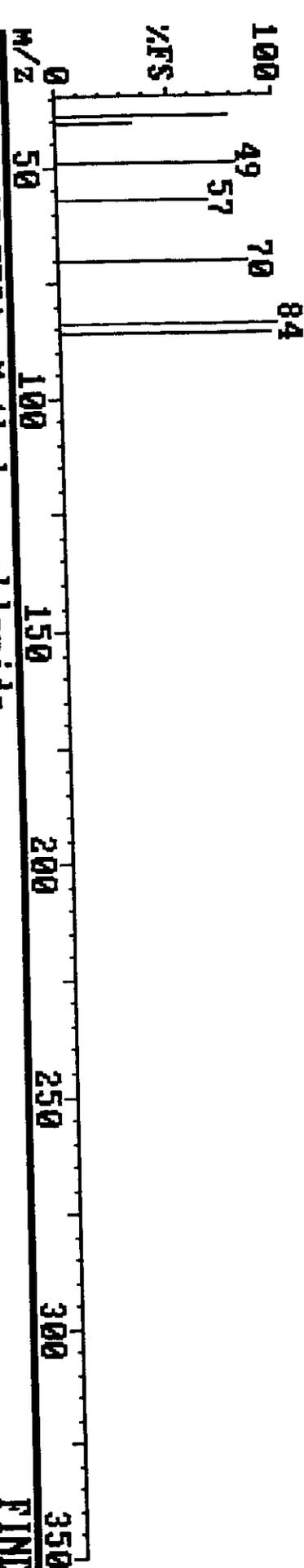
Sample: T-U-4-4-A,B T/MC 214-27-23A,B TL#46323

tenax only Date 8/25/98

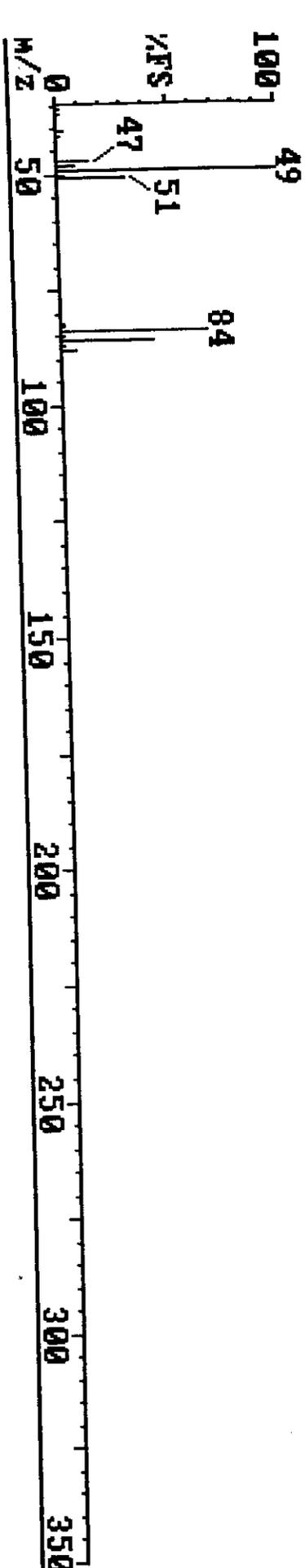
33280



FX983 328 (3.281) REFINE 9280



8260 15 (3.550) Methylene chloride FIND 100





Account	Balance	Debit	Credit	Balance
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1010	1000			1000
1020	1000			1000
1030	1000			1000
1040	1000			1000
1050	1000			1000
1060	1000			1000
1070	1000			1000
1080	1000			1000
1090	1000			1000
1100	1000			1000
1110	1000			1000
1120	1000			1000
1130	1000			1000
1140	1000			1000
1150	1000			1000
1160	1000			1000
1170	1000			1000
1180	1000			1000
1190	1000			1000
1200	1000			1000
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2930	1000			1000
2940	1000			1000
2950	1000			1000
2960	1000			1000
2970	1000			1000
2980	1000			1000
2990	1000			1000
3000	1000			1000

tenant only Pass 8/25/98

Account	Debit	Credit	Balance
1000			24832
1010			26368
1020			1000
1030			2500
1040			2500
1050			2500
1060			2500
1070			2500
1080			2500
1090			2500
1100			2500
1110			2500
1120			2500
1130			2500
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1170			2500
1180			2500
1190			2500
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1900			2500
1910			2500
1920			2500
1930			2500
1940			2500
1950			2500
1960			2500
1970			2500
1980			2500
1990			2500
2000			2500

tenancy only para 8/25/1982

Attachment 1



Account No.	Balance	Debit	Credit	Balance
1000				161792
1001				161792
1002				161792
1003				161792
1004				161792
1005				161792
1006				161792
1007				161792
1008				161792
1009				161792
1010				161792
1011				161792
1012				161792
1013				161792
1014				161792
1015				161792
1016				161792
1017				161792
1018				161792
1019				161792
1020				161792
1021				161792
1022				161792
1023				161792
1024				161792
1025				161792
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1028				161792
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1030				161792
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1032				161792
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1034				161792
1035				161792
1036				161792
1037				161792
1038				161792
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1080				161792
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1092				161792
1093				161792
1094				161792
1095				161792
1096				161792
1097				161792
1098				161792
1099				161792
1100				161792

Interest only P&B 8/25/98

Interest only P



24-Aug-98 15:31

Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-4-A, B

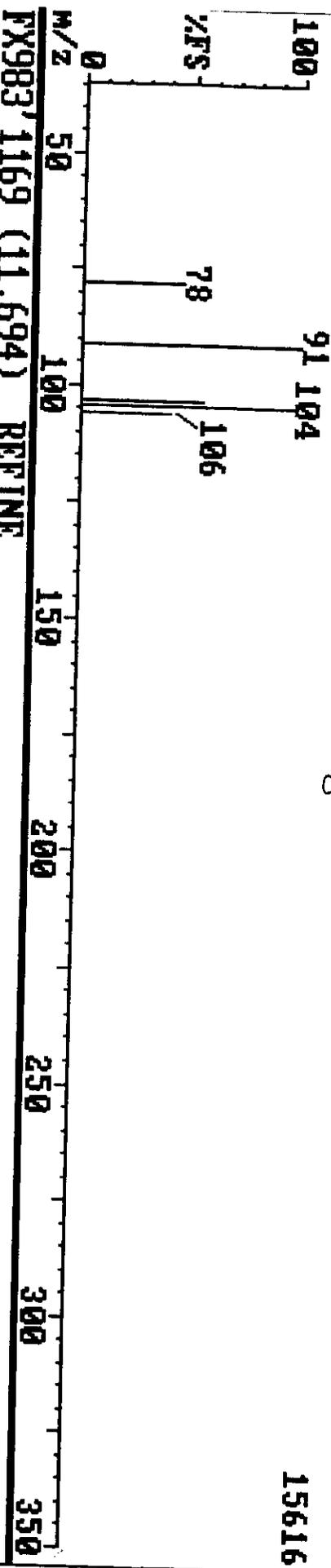
~~TTC~~ 214-27-23A, B

TL#46323

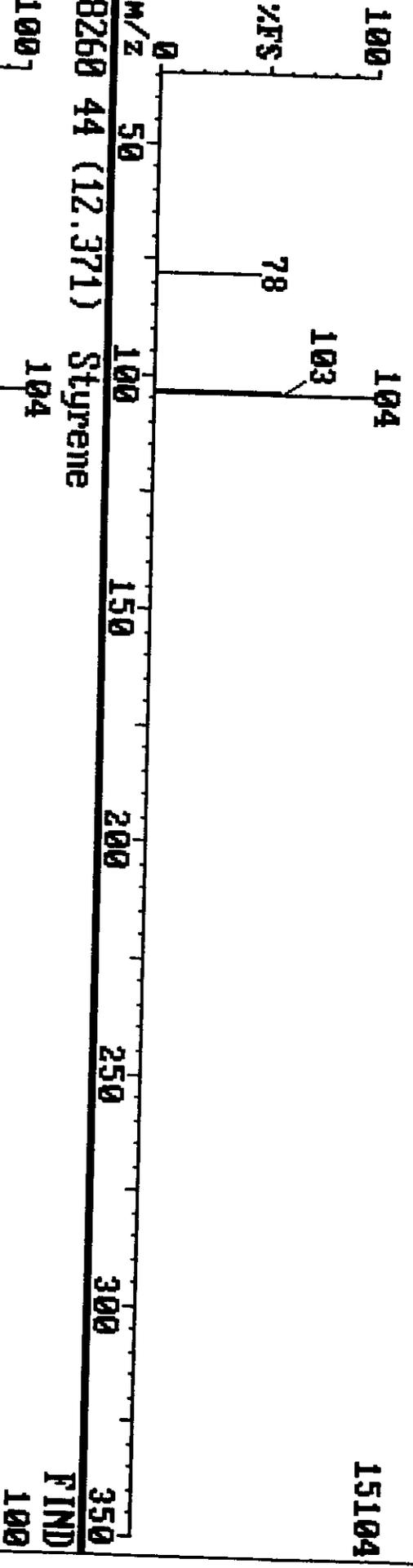
Instrument F

tenax only Pass 8/25/98

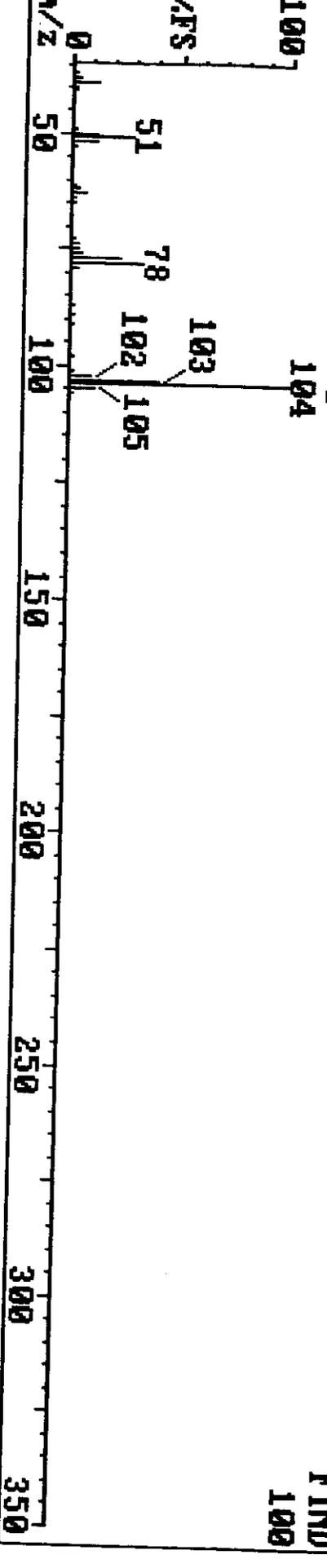
FX983 1169 (11.692)



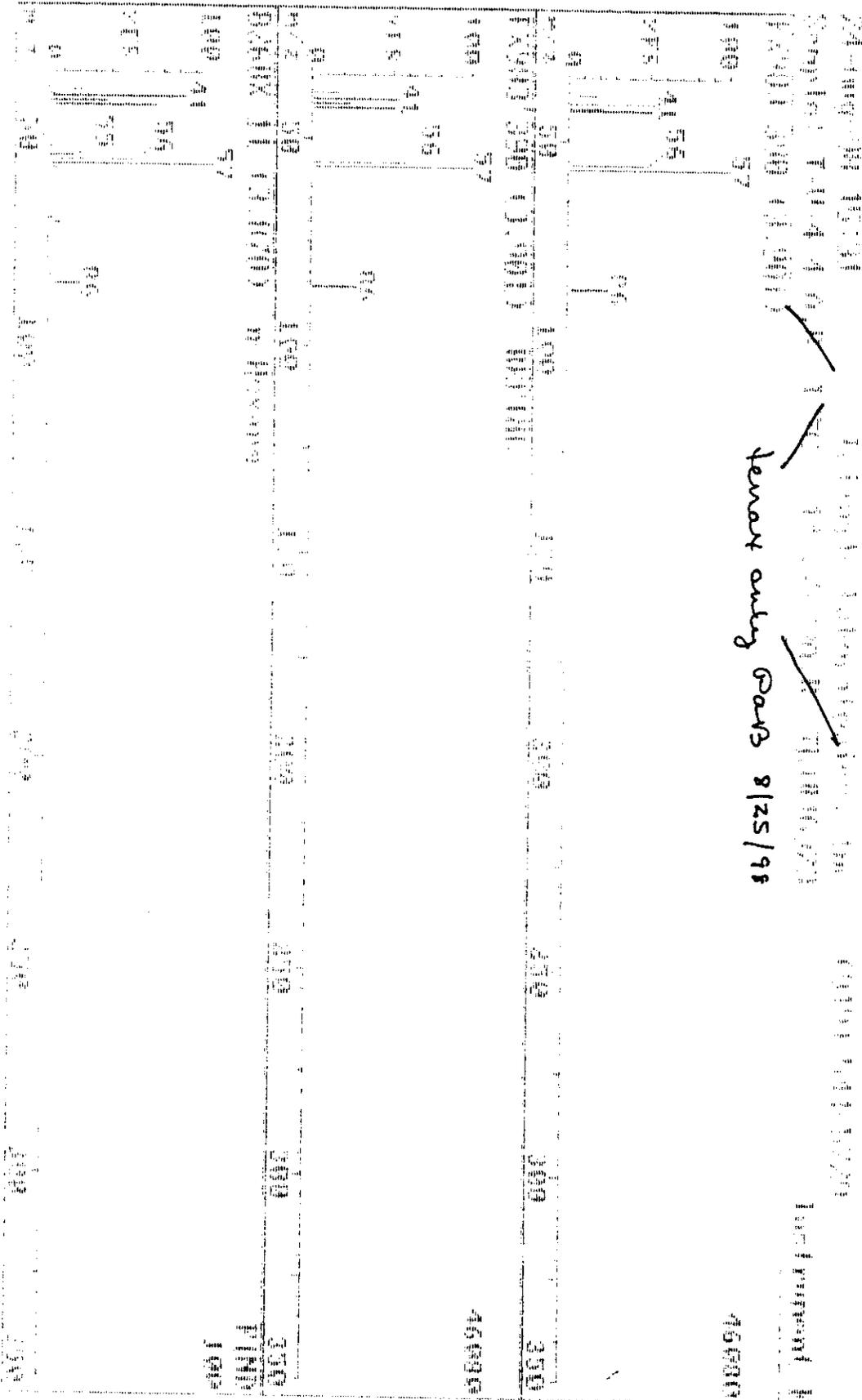
FX983' 1169 (11.694) REFINE



8260 44 (12.371) Styrene







tenant entry door 8/25/98

Account	Debit	Credit	Balance
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1020			500
1030			200
1040			100
1050			50
1060			25
1070			12.5
1080			6.25
1090			3.125
1100			1.5625
1110			0.78125
1120			0.390625
1130			0.1953125
1140			0.09765625
1150			0.048828125
1160			0.0244140625
1170			0.01220703125
1180			0.006103515625
1190			0.0030517578125
1200			0.00152587890625
1210			0.000762939453125
1220			0.0003814697265625
1230			0.00019073486328125
1240			0.000095367431640625
1250			0.0000476837158203125
1260			0.00002384185791015625
1270			0.000011920928955078125
1280			0.0000059604644775390625
1290			0.00000298023223876953125
1300			0.000001490116119384765625
1310			0.0000007450580596923828125
1320			0.00000037252902984619140625
1330			0.000000186264514923095703125
1340			0.0000000931322574615478515625
1350			0.00000004656612873077392578125
1360			0.000000023283064365386962890625
1370			0.0000000116415321826934814453125
1380			0.00000000582076609134674072265625
1390			0.000000002910383045673370361328125
1400			0.0000000014551915228366851806640625
1410			0.00000000072759576141834259033203125
1420			0.000000000363797880709171295166015625
1430			0.0000000001818989403545856475830078125
1440			0.00000000009094947017729282379150390625
1450			0.000000000045474735088646411895751953125
1460			0.0000000000227373675443232059478759765625
1470			0.00000000001136868377216160257893798828125
1480			0.000000000005684341886080301289468994140625
1490			0.000000000002842170943040150644734497072265625
1500			0.0000000000014210854715200753223672485361328125
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1540			0.00000000000008881784197000470764795303350830078125
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1580			0.0000000000000055511151231252942279820647094140625
1590			0.0000000000000027755575615626471139910235047072265625
1600			0.000000000000001387778780781323556995511751953125
1610			0.0000000000000006938893903906617784977558759765625
1620			0.00000000000000034694469519533088924887793798828125
1630			0.000000000000000173472347597665444624438968994140625
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1650			0.00000000000000004336808689941636115609742235047072265625
1660			0.0000000000000000216840434497081805780487111751953125
1670			0.0000000000000000108420217248540778940243558759765625
1680			0.00000000000000000542101086242703894701217793798828125
1690			0.000000000000000002710505431213519473506088968994140625
1700			0.000000000000000001355252715606759736753044497072265625
1710			0.000000000000000000677626357803379868376722488994140625
1720			0.000000000000000000338813178901689934188361244497072265625
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1900			0.00000000000000000000000129246970711398992228621282934764056222488994140625
1910			0.0000000000000000000000006462348535569949611431064146738202811244497072265625
1920			0.0000000000000000000000003231174267784974805715532083691014056222488994140625
1930			0.000000000000000000000000161558713389248740285776604184764056222488994140625
1940			0.00000000000000000000000008077935669462437014288830209238202811244497072265625
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1960			0.000000000000000000000000020194839173656092535722075523059556222488994140625
1970			0.00000000000000000000000001009741958682804626786103776152977811244497072265625
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2010			0.000000000000000000000000000631088724176752891741314861009556222488994140625
2020			0.0000000000000000000000000003155443620883764458706574304777811244497072265625
2030			0.0000000000000000000000000001577721810441882229353287152388994140625
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2090			0.00000000000000000000000000000246519032881540983361451117561244497072265625
2100			0.0000000000000000000000000000012325951644077049168072555877811244497072265625
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2120			0.00000000000000000000000000000030814879110192622920181389694497072265625
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2200			0.000000000000000000000000000000001203706215241699332819460534944497072265625
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2220			0.000000000000000000000000000000000300926553810424832819865133736222488994140625
2230			0.00000000000000000000000000000000015046327690521241640993256686711244497072265625
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2270			0.000000000000000000000000000000000009403954806575776025624535429177811244497072265625
2280			0.000000000000000000000000000000000004701977403287888012812267714588994140625
2290			0.000000000000000000000000000000000002350988701643944006406133857294497072265625
2300			0.0000000000000000000000000000000000011754943508219720032030669286472488994140625
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**Pacific Environmental Services**

Project Number: 46323  
 Sample File: FX953

Method 8260 VOST  
 Sample ID: T-V-FB-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-9A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.005	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.054		3.27		0.05
Acrylonitrile		U		0.025	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.005	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.07		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.006	BJ	5.52		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Pacific Environmental Services

Project Number: 46323  
Sample File: FX953

Method 8260 VOST  
Sample ID: T-V-FB-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-9A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed: 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene	0.006	J	8.08		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>4</sub>		IS 3	10.36		0.05
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.008	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.10
m-/p-Xylene		U		0.001	0.05
o-Xylene		U		0.001	0.05
Styrene		U		0.002	0.05
Bromoform		U			
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.74		0.05
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323  
Sample File: FX953

Method 8260 VOST  
Sample ID: T-V-FB-A,B T/TC

Client Project: R012.001  
TLI ID: 214-27-9A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed: 08/21/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.293	5.18	1	117
Toluene-d <sub>8</sub>	0.263	8.00	2	105
4-Bromofluorobenzene	0.238	12.66	2	95

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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CTH

**Pacific Environmental Services**

Project Number: 46323  
 Sample File: FX953

Method 8260 VOST  
 Sample ID: T-V-FB-A,B T/TC

Client Project: R012.001  
 TLI ID: 214-27-9A,B

Date Received: 07/29/98

Response File: ICALF821

Date Analyzed : 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.30		0.25
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane		U		0.025	0.25
1,2-Epoxybutane		U		0.001	0.25
Iso-Octane		U			
1,4-Difluorobenzene		IS 2	6.07		0.25
Ethyl acrylate		U		0.004	

Reviewed by     PAB     Date     8/25/98    

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range



No.	MAT	FOR	REV	Dist	Ampl	Flags	RT	QM	Name
1	100	85	99	-1	3726528	bv	5.301	108	Pentaffluorobenzene
2	100	97	99	0	4217324	bv	1.071	119	1,1-Difluoroethane
3	100	90	99	0	5387674	bv	10.301	137	Chloroacetylene
4	100	93	99	0	1243772	bv	15.142	152	1,4-Dichlorobenzene
5	100	92	99	1	1563640	bv	5.151	157	Difluoroethane
6	100	93	97	0	1131630	bv	1.001	28	Toluene
7	100	91	94	2	1122174	bv	12.042	35	o-Dichlorobenzene
8	0	0	0	0	0	0	0.000	36	p-Dichlorobenzene
9	0	0	0	0	0	0	0.000	38	Chloroacetylene
10	0	0	0	0	0	0	0.000	39	vinyl chloride
11	0	0	0	0	0	0	0.001	24	o-Dichlorobenzene
12	0	0	0	0	0	0	0.000	24	p-Dichlorobenzene
13	0	0	0	0	0	0	0.000	24	1,2-Dichloroethane
14	0	0	0	0	0	0	0.000	26	1,1-Dichloroethane
15	0	0	0	0	0	0	0.000	142	1,2-Dichloroethane
16	0	0	0	0	0	0	0.000	14	Chloroacetylene
17	0	0	0	0	0	0	0.001	41	o-Dichlorobenzene
18	0	0	0	0	0	0	0.001	41	p-Dichlorobenzene
19	0	0	0	0	0	0	0.001	41	1,2-Dichloroethane
20	0	0	0	0	0	0	0.001	41	1,1-Dichloroethane
21	0	0	0	0	0	0	0.000	41	1,2-Dichloroethane
22	0	0	0	0	0	0	0.000	41	1,1-Dichloroethane
23	0	0	0	0	0	0	0.000	41	1,2-Dichloroethane
24	0	0	0	0	0	0	0.000	41	1,1-Dichloroethane
25	0	0	0	0	0	0	0.000	41	1,2-Dichloroethane
26	0	0	0	0	0	0	0.000	41	1,1-Dichloroethane
27	0	0	0	0	0	0	0.000	123	o-Dichlorobenzene
28	0	0	0	0	0	0	0.000	27	1,1-Dichloroethane
29	0	0	0	0	0	0	0.000	117	Chloroacetylene
30	0	0	0	0	0	0	0.000	25	1,2-Dichloroethane
31	0	0	0	0	0	0	0.000	28	Chloroacetylene
32	96	87	99	0	115400	db	2.101	92	1,1-Dichloroethane
33	0	0	0	0	0	0	0.000	100	p-Dichlorobenzene
34	0	0	0	0	0	0	0.000	83	1,2-Dichloroethane
35	0	0	0	0	0	0	0.000	93	o-Dichlorobenzene
36	0	0	0	0	0	0	0.000	41	o-Dichlorobenzene
37	0	0	0	0	0	0	0.000	33	o-Dichlorobenzene
38	0	0	0	0	0	0	0.000	18	1,2-Dichloroethane
39	0	0	0	0	0	0	0.000	42	4-Methyl-1-pentene
40	0	0	0	0	0	0	0.000	92	Chloroacetylene
41	81	50	75	2	33894	A	2.001	78	1,1-Dichloroethane
42	0	0	0	0	0	0	0.000	97	1,1,2,2-Tetrachloroethane
43	0	0	0	0	0	0	0.000	69	3-Methylacrylate
44	0	0	0	0	0	0	0.000	154	1,2-Dichloroethane
45	0	0	0	0	0	0	0.000	75	1,3-Dichlorobenzene
46	0	0	0	0	0	0	0.000	45	2-Pentene
47	0	0	0	0	0	0	0.000	129	o-Dichlorobenzene
48	0	0	0	0	0	0	0.000	107	1,2-Dichloroethane
49	0	0	0	0	0	0	0.000	112	Chlorobenzene

PAR

PAR

Data Review: PAR  
Date: 8/24/98

No	HT	FOR	NEV	Del La	Product	Flags	RT	QM	Flame
51	0	0	0	0	0		0.000	101	1,1,1,2-tetrahydro-4H-pyridine
52	0	0	0	0	0		0.000	100	o-Tolylbenzene
53	0	0	0	0	0		0.000	106	m-Propylbenzene
54	0	0	0	0	0		0.000	106	o-Tolylbenzene
55	0	0	0	0	0		0.000	104	Acrylonitrile
56	0	0	0	0	0		0.000	171	Bromobenzene
57	0	0	0	0	0		0.000	105	Gasoline
58	0	0	1	0	0		0.000	83	1,1,2,2-Tetrahydro-6H-pyridine
59	0	0	0	0	0		0.000	156	Benzenethiol
60	0	0	0	0	0		0.000	75	1,2,3-Triethylbenzene
61	0	0	0	0	0		0.000	110	m-Propylbenzene
62	0	0	0	0	0		0.000	75	1,2,3-Triethylbenzene
63	0	0	0	0	0		0.000	106	o-Tolylbenzene
64	0	0	0	0	0		0.000	106	o-Tolylbenzene
65	0	0	0	0	0		0.000	106	o-Tolylbenzene
66	0	0	0	0	0		0.000	106	o-Tolylbenzene
67	0	0	0	0	0		0.000	106	o-Tolylbenzene
68	54	11	54	0	54%	HS	0.000	106	o-Tolylbenzene
69	0	0	0	0	0		0.000	117	Gasoline
70	0	0	0	0	0		0.000	106	o-Tolylbenzene
71	0	0	0	0	0		0.000	106	o-Tolylbenzene
72	0	0	0	0	0		0.000	106	o-Tolylbenzene
73	22	11	22	0	22%	HS	0.000	106	o-Tolylbenzene
74	0	0	0	0	0		0.000	106	o-Tolylbenzene
75	0	0	0	0	0		0.000	106	o-Tolylbenzene
76	20	50	20	0	60%	HS	0.000	106	o-Tolylbenzene
77	91	50	91	0	70%	HS	0.000	106	o-Tolylbenzene
78	0	0	0	0	0		0.000	106	o-Tolylbenzene
79	61	41	62	0	100%	HS	0.000	106	o-Tolylbenzene

No	HAZ	ROR	REV	Del	Ac	PLF	Flags	RT	Chem Name
1	100	95	99	1	3396498	lv		5.30L	104 Pentafluorobenzene
2	100	97	99	0	4217424	lv		6.07L	114 1,4-Difluorobenzene
3	100	95	95	0	1007424	lv		10.56L	117 Chlorobenzene-d5
4	100	93	98	0	1243792	lv		15.74L	152 1,4-Dichlorobenzene-d4
5	100	97	99	0	1563640	lv		5.18L	115 Dibromofluoromethane
6	100	95	97	0	5131680	lv		8.00L	98 Toluene-d8
7	100	91	94	0	1592176	lv		12.66L	95 4-Bromofluorobenzene
8	0	0	0	0	0	0		0.000	109 1,3-Dichloroethane
9	0	0	0	0	0	0		0.000	106 Vinyl bromide
10	0	0	0	0	0	0		0.000	73 MTBE
11	0	0	0	0	0	0		0.000	57 methylene
12	0	0	0	0	0	0		0.000	49 1,1,1-Trichloroethane
13	0	0	0	0	0	0		0.000	55 1,1,1-Trichloroethane
14	0	0	0	0	0	0		0.000	53 Ethyl acetate

70 PLB  
 70 PLB  
 70 PLB

2-10-90 10:00

1000 200 300 400 500

000 100 200

Source: TVF-000

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Testament F

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Pacific Environmental Services

Project Number: 46323  
Sample File: HW559

Method 8260 VOST  
Sample ID: VOSTBLK 080998 T/TC

Client Project: R012.001  
TLI ID: VOSTBLK080998

Date Received: / /

Response File: ICALH809

Date Analyzed: 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
Chloromethane	0.015	J	0.97		0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane	0.010	J	1.47		0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.004	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride	0.001	J	3.06		0.05
Acrylonitrile		U		0.006	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.003	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	5.76		
Carbon tetrachloride		U		0.001	0.05
Benzene	0.048	J	5.24		0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46323  
 Sample File: HW559

Method 8260 VOST  
 Sample ID: VOSTBLK 080998 T/TC

Client Project: R012.001  
 TLI ID: VOSTBLK080998

Date Received: / /  
 Date Analyzed : 08/09/98

Response File: ICALH809

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.002	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.001	0.05
Toluene	0.003	J	7.75		0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>3</sub>		IS 3	9.97		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.002	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene	0.001	J	11.32		0.05
Bromoform		U		0.001	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.09		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323  
Sample File: HW559

Method 8260 VOST  
Sample ID: VOSTBLK 080998 T/TC

Client Project: R012.001  
TLI ID: VOSTBLK080998

Date Received: / /

Response File: ICALH809

Date Analyzed: 08/09/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.247	4.92	1	99
Toluene-d <sub>3</sub>	0.259	7.65	2	104
4-Bromofluorobenzene	0.273	12.25	2	109

Reviewed by PAB Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Pacific Environmental Services

Project Number: 46323  
Sample File: HW559

Method 8260 VOST  
Sample ID: VOSTBLK 080998 T/TC

Client Project: R012.001  
FLI ID: VOSTBLK080998

Date Received: / /

Response File: ICALH809

Date Analyzed : 08/09/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.04		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.002	0.25
n-Hexane		U		0.001	0.25
1,2-Epoxybutane		U		0.041	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	5.76		
Ethyl acrylate		U		0.001	0.25

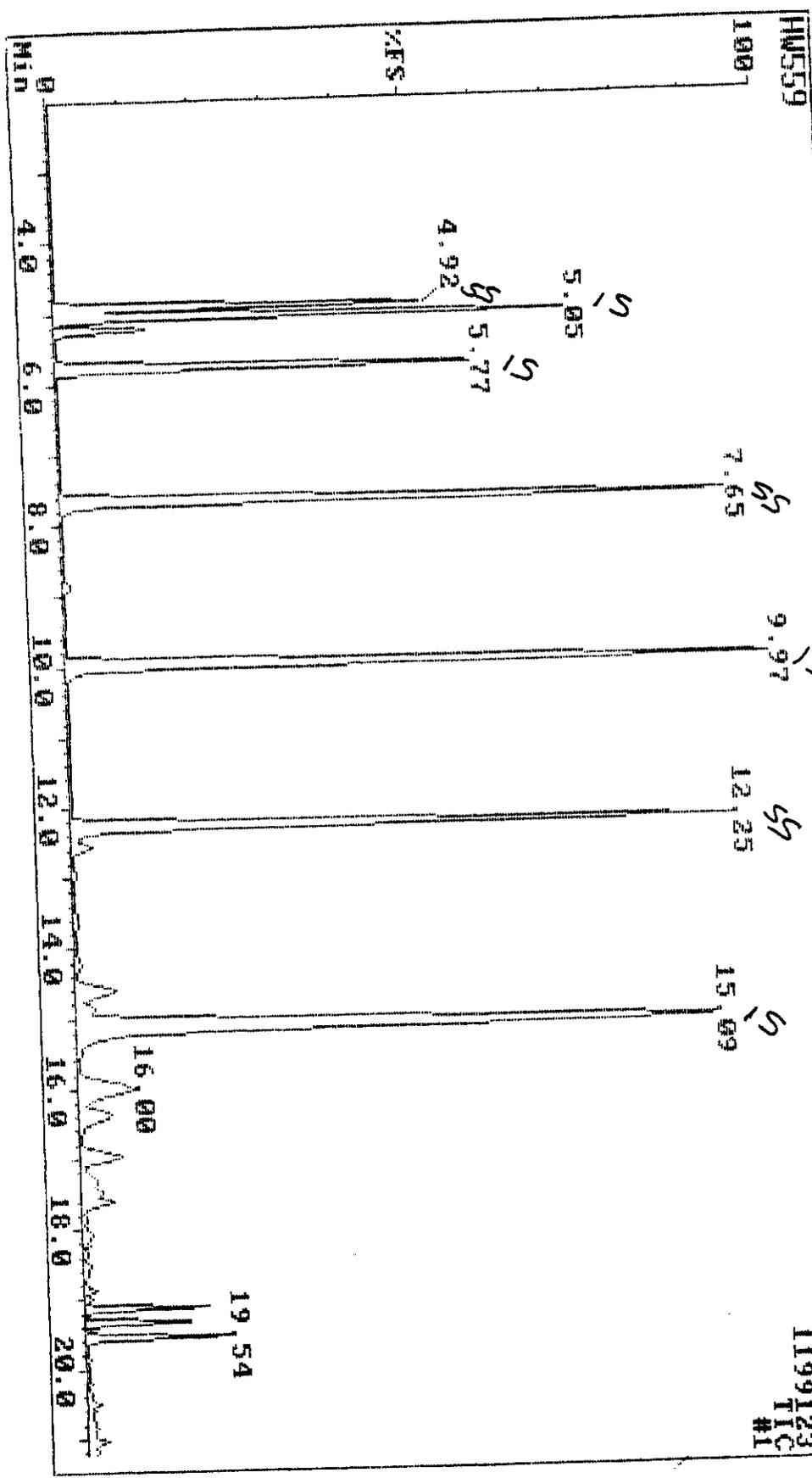
Reviewed by PAB Date 8/10/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: UOSTBLK T/TIC



1199123  
T/TIC  
#1

Data Review: Qa B  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	86	98	-5	2448904	bv	5.04	168	Pentafluorobenzene
2	100	97	98	-1	2301120	bv	5.76	114	1,4-Difluorobenzene
3	100	94	95	5	3459840	bv	9.97	117	Chlorobenzene-d5
4	100	73	98	-6	2223264	bv	15.09	152	1,4-Dichlorobenzene-d4
5	100	98	100	1	1291580	bb	4.92	113	Dibromofluoromethane
6	100	93	98	2	3344656	bv	7.65	98	Toluene-d8
7	97	89	92	6	1884336	bv	12.25	95	4-Bromofluorobenzene
x 8	0	0	0	0	0		0.00	85	Dichlorodifluoromethane
✓ 9	100	83	89	-1	57172	bb	0.97	50	Chloromethane
✓ 10	0	0	0	0	0		0.00	62	Vinyl Chloride
✓ 11	100	86	94	-1	41628	bb	1.47	94	Bromomethane
✓ 12	0	0	0	0	0		0.00	64	Chloroethane
✓ 13	0	0	0	0	0		0.00	101	Trichlorofluoromethane
✓ 14	0	0	0	0	0		0.00	96	1,1-Dichloroethene
✓ 15	<del>64</del>	<del>47</del>	<del>60</del>	<del>2</del>	<del>6668</del>	<del>bb</del>	<del>2.59</del>	142	Iodomethane -
✓ 16	0	0	0	0	0		0.00	76	Carbon disulfide -
✓ 17	<del>59</del>	<del>32</del>	<del>33</del>	<del>3</del>	<del>3524</del>	<del>bb</del>	<del>2.74</del>	43	Acetone -
✓ 18	0	0	0	0	0		0.00	41	Allyl chloride -
✓ 19	73	49	71	-1	3620	bb	3.06	84	Methylene chloride
✓ 20	0	0	0	0	0		0.00	53	Acrylonitrile -
✓ 21	0	0	0	0	0		0.00	96	trans-1,2-Dichloroethene
✓ 22	0	0	0	0	0		0.00	63	1,1-Dichloroethane
✓ 23	0	0	0	0	0		0.00	43	Vinyl acetate -
x 24	0	0	0	0	0		0.00	77	2,2-Dichloropropane
✓ 25	0	0	0	0	0		0.00	96	cis-1,2-Dichloroethene
✓ 26	<del>52</del>	<del>45</del>	<del>45</del>	<del>3</del>	<del>1483</del>	<del>bb</del>	<del>4.53</del>	43	2-Butanone -
✓ 27	0	0	0	0	0		0.00	83	Chloroform
x 28	0	0	0	0	0		0.00	128	Bromochloromethane
✓ 29	0	0	0	0	0		0.00	97	1,1,1-Trichloroethane
✓ 30	0	0	0	0	0		0.00	117	Carbon tetrachloride
x 31	0	0	0	0	0		0.00	75	1,1-Dichloropropene
✓ 32	100	98	98	1	522048	bb	5.24	78	Benzene
✓ 33	0	0	0	0	0		0.00	62	1,2-Dichloroethane
✓ 34	0	0	0	0	0		0.00	130	Trichloroethene
✓ 35	0	0	0	0	0		0.00	63	1,2-Dichloropropane
x 36	0	0	0	0	0		0.00	93	Dibromomethane
✓ 37	0	0	0	0	0		0.00	41	Methyl methacrylate -
✓ 38	0	0	0	0	0		0.00	83	Bromodichloromethane
✓ 39	0	0	0	0	0		0.00	75	cis-1,3-Dichloropropene
✓ 40	<del>40</del>	<del>3</del>	<del>62</del>	<del>4</del>	<del>16048</del>	<del>bb</del>	<del>7.56</del>	43	4-Methyl-2-pentanone -
✓ 41	63	32	79	3	30300	bb	7.75	92	Toluene
✓ 42	0	0	0	0	0		0.00	75	trans-1,3-Dichloropropene
✓ 43	0	0	0	0	0		0.00	97	1,1,2-Trichloroethane
x 44	0	0	0	0	0		0.00	69	Ethyl methacrylate
✓ 45	0	0	0	0	0		0.00	164	Tetrachloroethene
x 46	0	0	0	0	0		0.00	76	1,3-Dichloropropane
✓ 47	0	0	0	0	0		0.00	43	2-Hexanone
✓ 48	0	0	0	0	0		0.00	129	Dibromochloromethane
✓ 49	0	0	0	0	0		0.00	107	1,2-Dibromoethane
✓ 50	0	0	0	0	0		0.00	112	Chlorobenzene

Data Review: JAB  
Date: 8/10/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
X51	0	0	0	0	0		0.00	131 1,1,1,2-Tetrachloroethan
✓52	0	0	0	0	0		0.00	106 Ethylbenzene
✓53	0	0	0	0	0		0.00	106 m-/p-Xylene
✓54	0	0	0	0	0		0.00	106 o-Xylene
✓55	62	52	52	2	9172	A	11.32	104 Styrene
✓56	0	0	0	0	0		0.00	173 Bromoform
✓57	<del>47</del>	<del>44</del>	<del>44</del>	<del>6</del>	<del>864</del>	<del>bb</del>	<del>12.03</del>	105 Cumene
✓58	0	0	0	0	0		0.00	83 1,1,2,2-Tetrachloroethan
X59	0	0	0	0	0		0.00	156 Bromobenzene
X60	0	0	0	0	0		0.00	75 1,2,3-Trichloropropane
X61	0	0	0	0	0		0.00	120 n-Propylbenzene
X62	<del>12</del>	<del>12</del>	<del>12</del>	<del>4</del>	<del>816</del>	<del>bb</del>	<del>12.69</del>	75 trans-1,4-Dichloro-2-but
X63	0	0	0	0	0		0.00	126 2-Chlorotoluene
X64	<del>45</del>	<del>30</del>	<del>34</del>	<del>8</del>	<del>1230</del>	<del>bb</del>	<del>13.21</del>	126 4-Chlorotoluene
X65	<del>65</del>	<del>57</del>	<del>57</del>	<del>4</del>	<del>5100</del>	<del>A</del>	<del>13.32</del>	105 1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.00	119 tert-Butylbenzene
67	0	0	0	0	0		0.00	105 1,2,4-trimethylbenzene
68	0	0	0	0	0		0.00	105 sec-Butylbenzene
69	0	0	0	0	0		0.00	119 p-Cymene
70	0	0	0	0	0		0.00	146 1,3-Dichlorobenzene
71	0	0	0	0	0		0.00	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91 Benzyl chloride
73	0	0	0	0	0		0.00	91 n-Butylbenzene
74	0	0	0	0	0		0.00	146 1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75 1,2-Dibromo-3-chloroprop
X76	81	95	98	14	193798	bv	19.12	180 1,2,4-Trichlorobenzene
X77	44	21	91	16	26148	bb	19.34	225 Hexachlorobutadiene
X78	67	84	88	15	339164	bv	19.32	128 Naphthalene
X79	75	95	98	16	197024	bv	19.54	180 1,2,3-Trichlorobenzene

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	86	98	0	2448904	bv	5.04	168	Pentafluorobenzene
2	100	97	98	0	2301120	bv	5.76	114	1,4-Difluorobenzene
3	100	94	95	3	3459840	bv	9.97	117	Chlorobenzene-d5
4	100	73	98	2	2223264	bv	15.09	152	1,4-Dichlorobenzene-d4
5	100	98	100	2	1291580	bb	4.92	113	Dibromofluoromethane
6	100	93	98	1	3344656	bv	7.65	98	Toluene-d8
7	100	89	92	4	1884336	bv	12.25	95	4-Bromofluorobenzene
8	0	0	0	0	0		0.00	39	1,3-Butadiene
9	0	0	0	0	0		0.00	106	Vinyl bromide
10	0	0	0	0	0		0.00	73	MTBE
11	<del>89</del>	<del>71</del>	<del>71</del>	1	<del>3568</del>	<del>bv</del>	<del>3.67</del>		
12	0	0	0	0	0		0.00	42	1,2-Epoxybutane
13	0	0	0	0	0		0.00	57	Iso-Octane
14	0	0	0	0	0		0.00	55	Ethyl acrylate

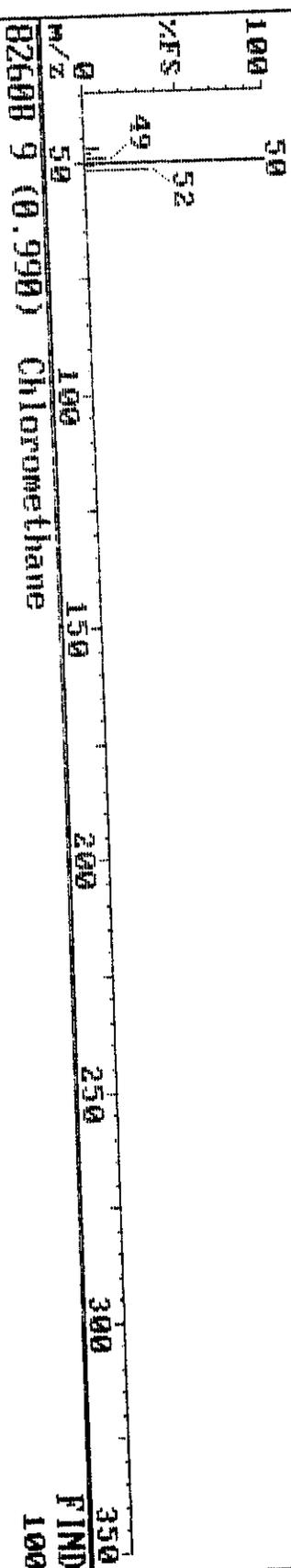
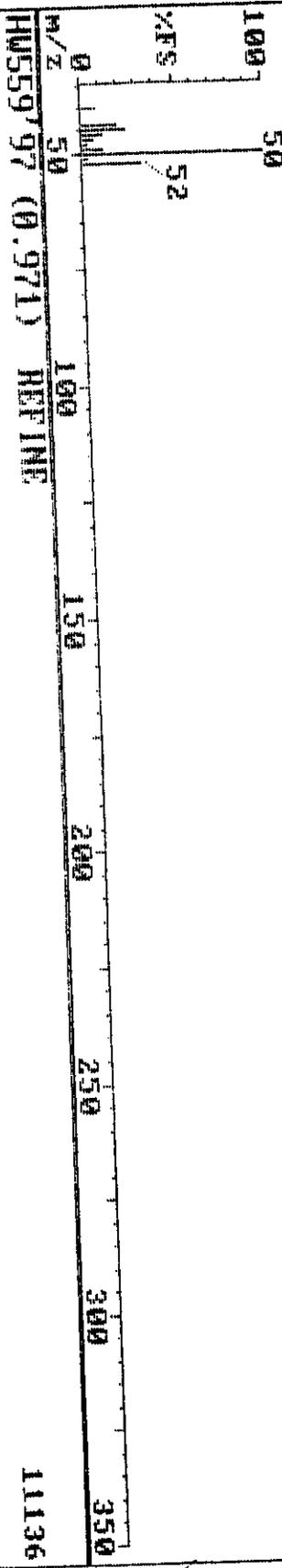
*(71) PAB 8/10/98*

Data Review: *PAB*  
 Date: *8/10/98*

08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: VOSTBLK T/TC

HM559 97 (0.970) 11456



08-09-98 08:28

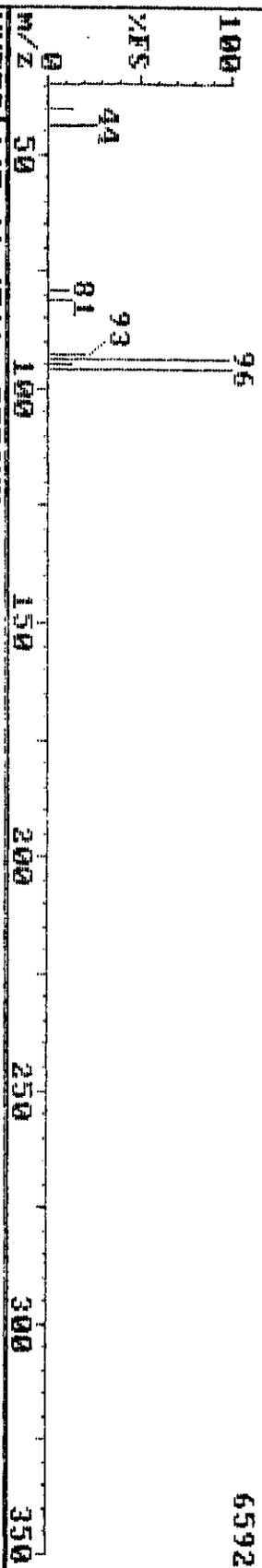
Triangle Laboratories, Inc.

(919) 544-5729

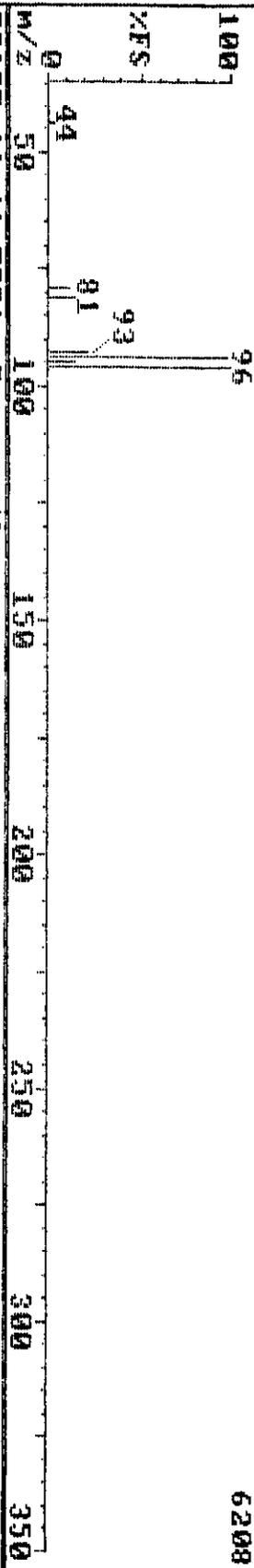
Sample: UOSTBLK T/TC

Instrument H

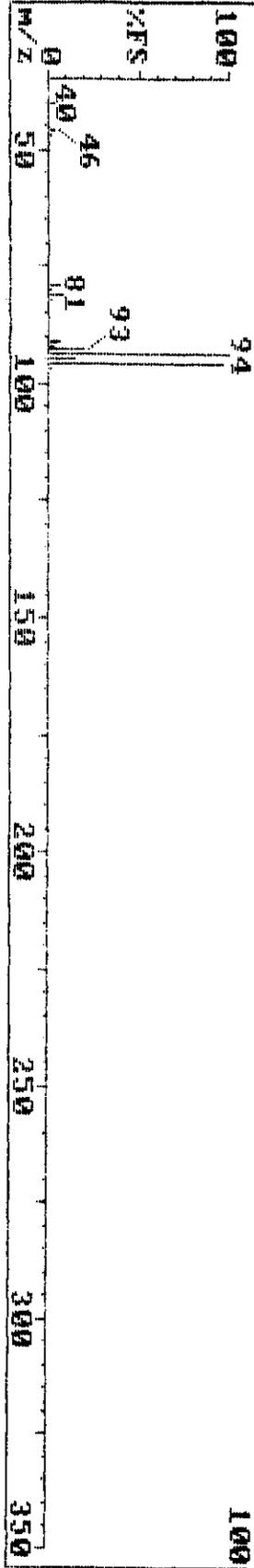
HW559 147 (1.470)



HW559 147 (1.471) REFINE



082608 11 (1.500) Bromomethane

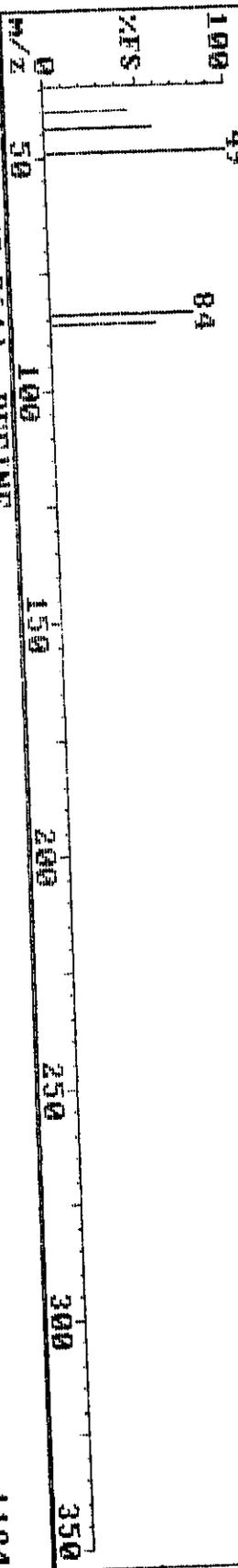


FIND 100

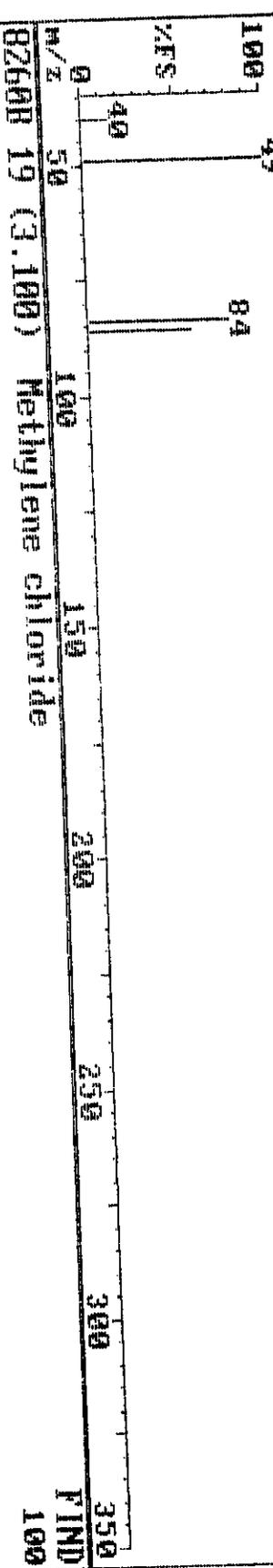
08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: UOSTBLK T/TC

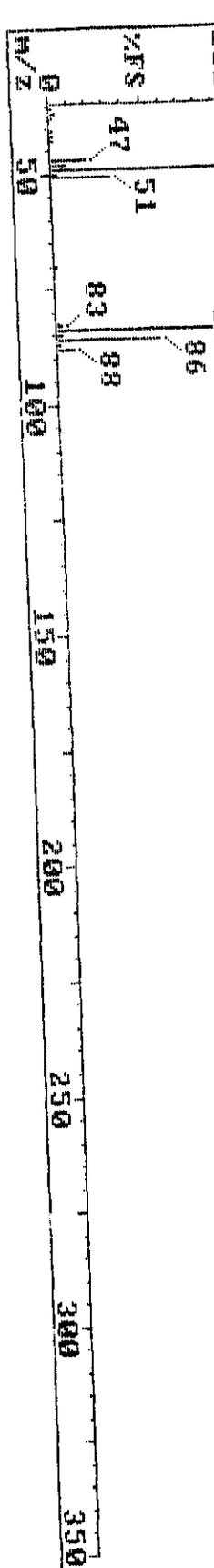
HW559 306 (3.060) 1184



HW559 306 (3.061) REFINE 1184



82608 19 (3.100) Methylene chloride FIND 100



08-09-98 08:28

Triangle Laboratories, Inc.

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Sample: UOSTBLK T/TC

Instrument H

HM559 524 (5.241)

78

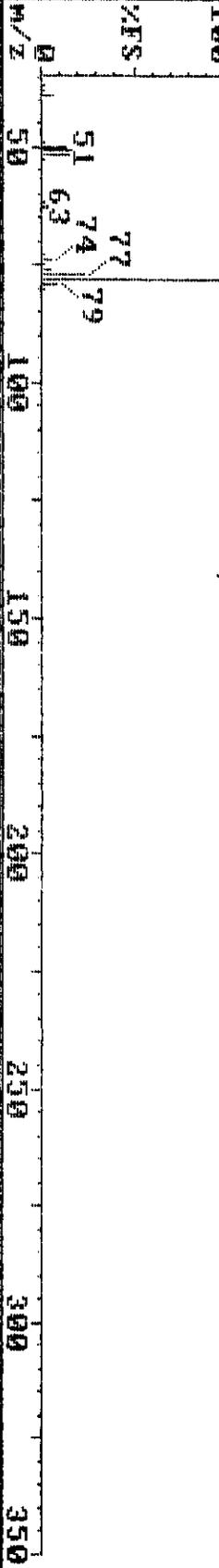
75776



HM559 524 (5.241) REFINE

78

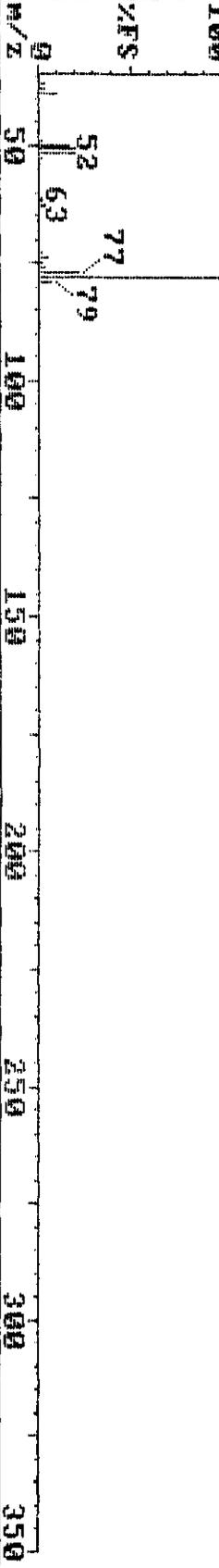
71680



82608 32 (5.291) Benzene

78

FIND 100



08-09-98 08:28

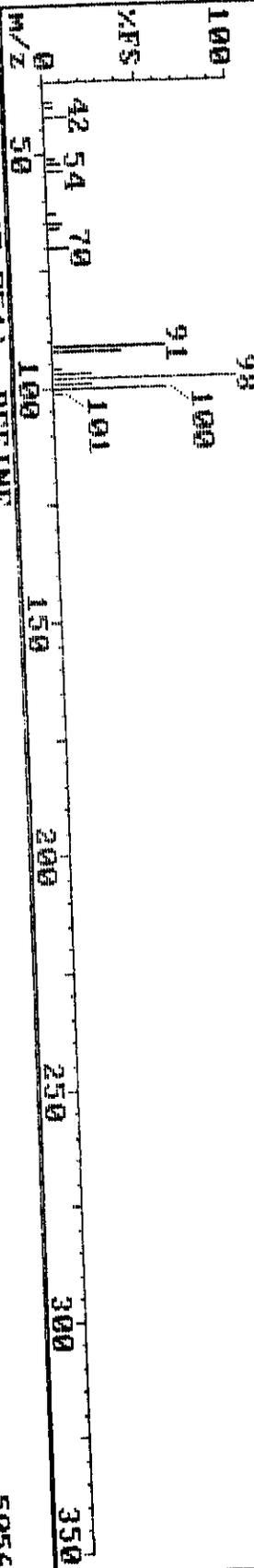
Sample: UOSTBLK T/TC

Triangle Laboratories, Inc. (919) 544-5729

Instrument H

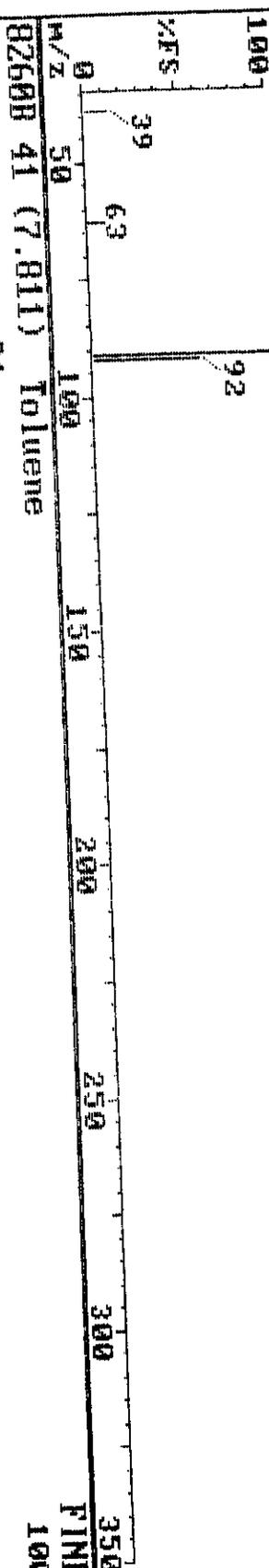
HM559 775 (7.751)

9536



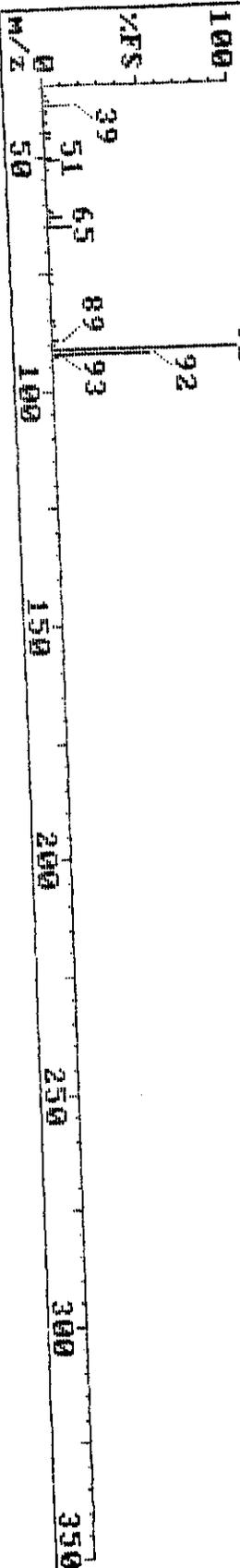
HM559 775 (7.751) REFINE

5056



BZ60B 41 (7.811) Toluene

FIND 100



08-09-98 08:28

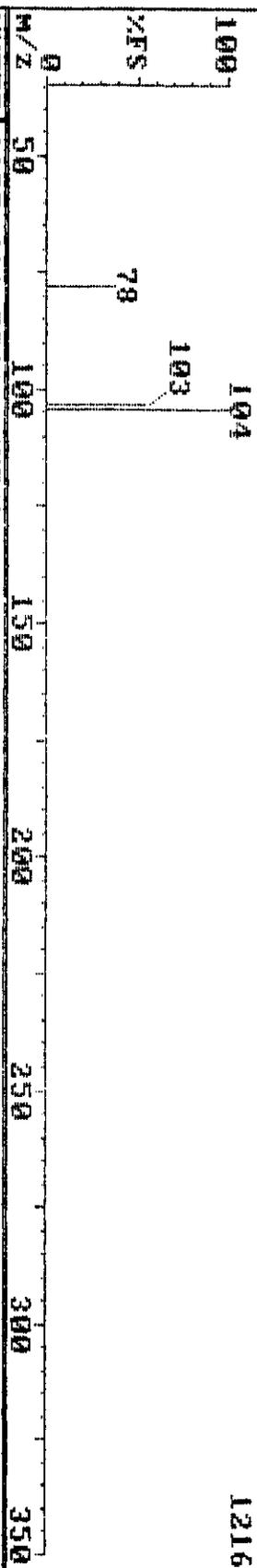
Triangle Laboratories, Inc.

(919) 544-5729

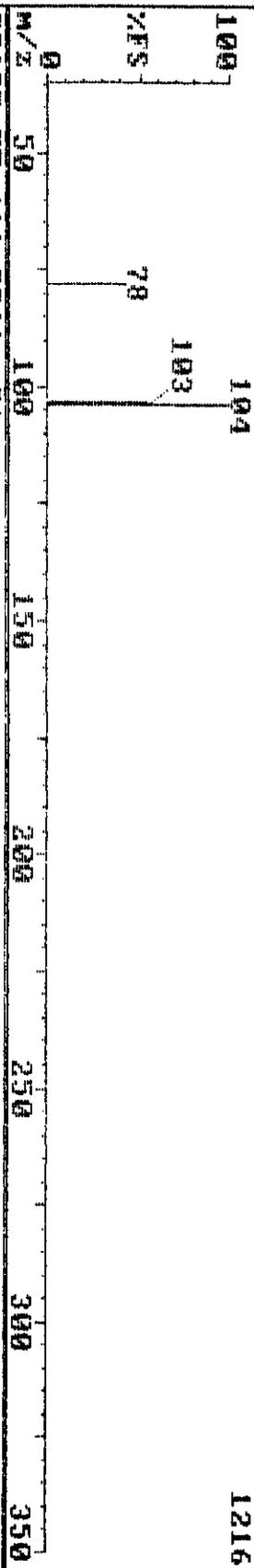
Sample: VOSTBLK T/TC

Instrument H

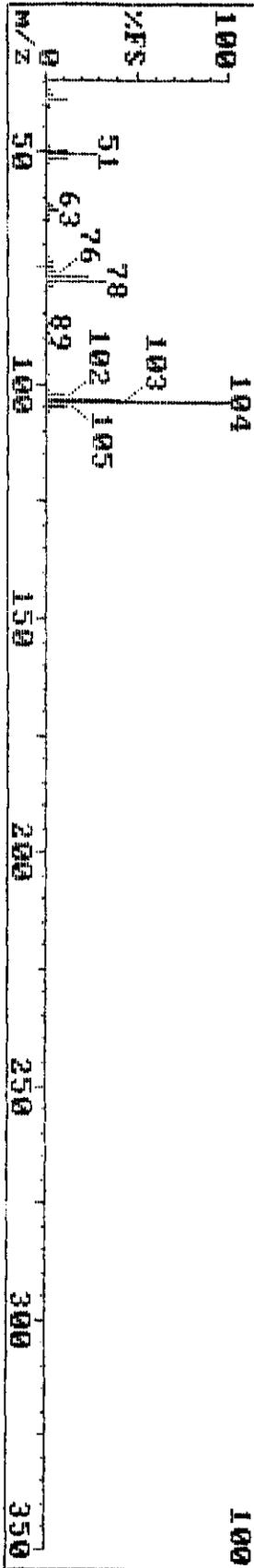
HM559 1132 (11.321)



HM559 1132 (11.321) REFINE



82608 55 (11.381) Styrene



Pacific Environmental Services

Project Number: 46323  
Sample File: FX952

Method 8260 VOST  
Sample ID: VOSTBLK 082198 T/TC

Client Project: R012.001  
TLI ID: VOSTBLK082198

Date Received: / /

Response File: ICALF821

Date Analyzed: 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.005	0.05
Acetone		U		0.001	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride		U		0.024	0.05
Acrylonitrile		U		0.001	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.002	0.05
Vinyl acetate		U		0.001	0.05
cis-1,2-Dichloroethene		U		0.004	0.05
2-Butanone		U		0.001	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		IS 2	6.08		
1,4-Difluorobenzene		U		0.001	0.05
Carbon tetrachloride					0.05
Benzene	0.039	J	5.66		
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

**Pacific Environmental Services**

Project Number: 46323

Sample File: FX952

Method 8260 VOST

Sample ID: VOSTBLK 082198 T/TC

Client Project: R012.001

Date Received: / /

Response File: ICALF821

TLI ID: VOSTBLK082198

Date Analyzed : 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.006	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.004	0.05
Toluene		U		0.001	0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.36		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.009	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4 Low	15.73		
Cumene		U		0.001	0.05
1,1,1,2-Tetrachloroethane		U		0.003	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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Pacific Environmental Services

Project Number: 46323  
Sample File: FX952

Method 8260 VOST  
Sample ID: VOSTBLK 082198 T/TC

Client Project: R012.001  
TLI ID: VOSTBLK082198

Date Received: / /

Response File: ICALF821

Date Analyzed : 08/21/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.272	5.18	1	109
Toluene-d <sub>8</sub>	0.260	8.00	2	104
4-Bromofluorobenzene	0.203	12.66	2	81

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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Pacific Environmental Services

Project Number: 46323

Sample File: FX952

Method 8260 VOST

Sample ID: VOSTBLK 082198 T/TC

Client Project: R012.001

Date Received: / /

Response File: ICALF821

TLI ID: VOSTBLK082198

Date Analyzed : 08/21/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.31		
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane		U		0.001	0.25
1,2-Epoxybutane		U		0.024	0.25
Iso-Octane		U		0.001	0.25
1,4-Difluorobenzene		IS 2	6.08		
Ethyl acrylate		U		0.004	0.25

Reviewed by

*PAB*

Date *8/25/98*

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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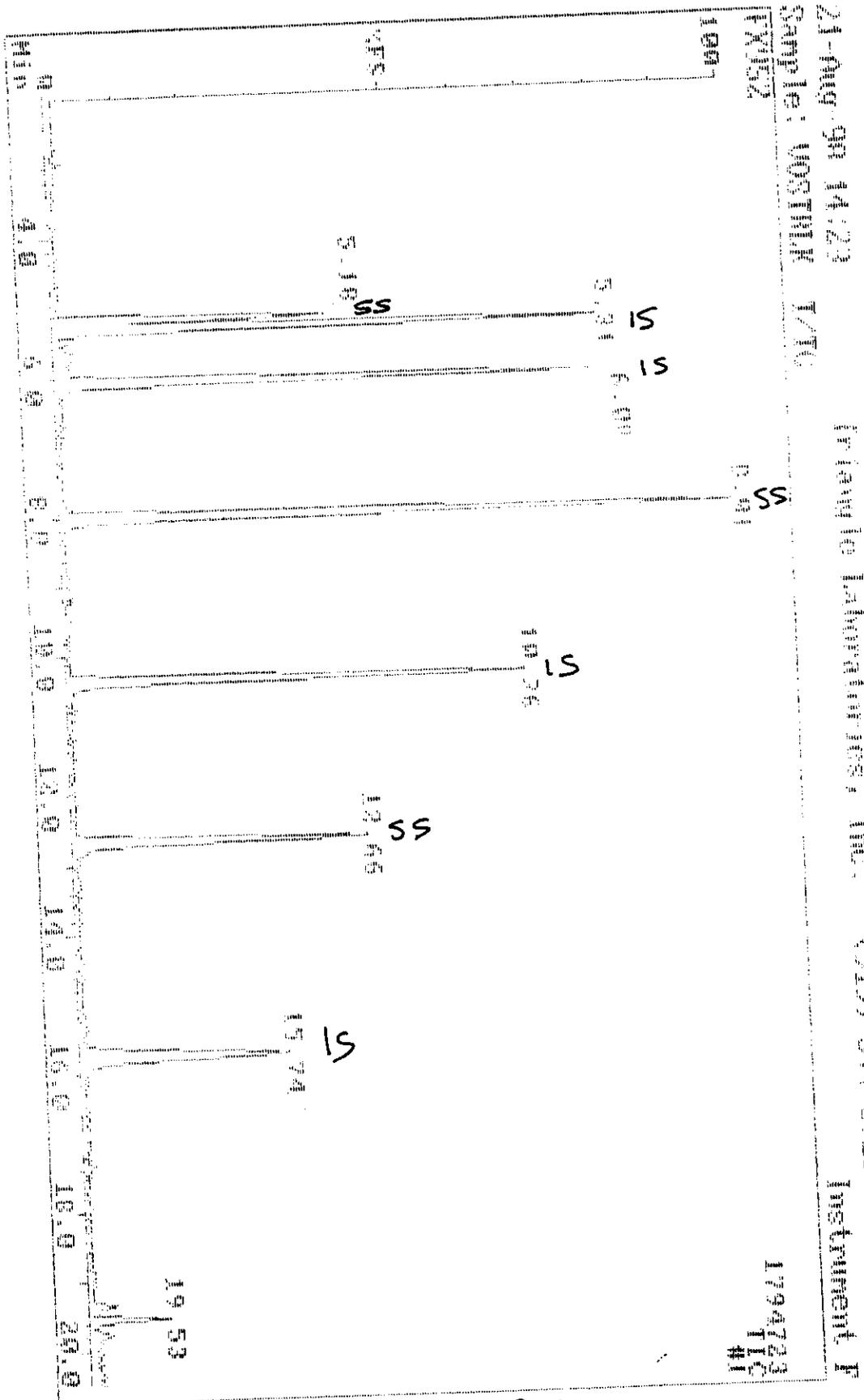
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Printed: 17:21 08/25/1998

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Data Review: PAB  
Date: 8/24/98

NO	MAI	FOR	REV	DATE	DESCRIPTION	QTY	NAME
1	100	25	29	0	00100007	10	1,1-Dichloroethane
2	100	27	29	0	00100119	10	1,1,2,2-Tetrachloroethane
3	100	25	29	0	00100003	10	1,1-Dichloroethane
4	100	25	29	0	00100003	10	1,1-Dichloroethane
5	100	27	29	0	00100119	10	1,1,2,2-Tetrachloroethane
6	100	27	29	0	00100119	10	1,1,2,2-Tetrachloroethane
7	100	25	29	0	00100003	10	1,1-Dichloroethane
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
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84	0	0	0	0	0	0	0
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86	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0
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121	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0
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131	0	0	0	0	0	0	0
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161	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
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173	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0
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197	0	0	0	0	0	0	0
198	0	0	0	0	0	0	0
199	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0

PA PAB

PA PAB

PA PAB

Data Review: PAB  
Date: 8/24/98





21 Aug 79 14:23

Instrument 1

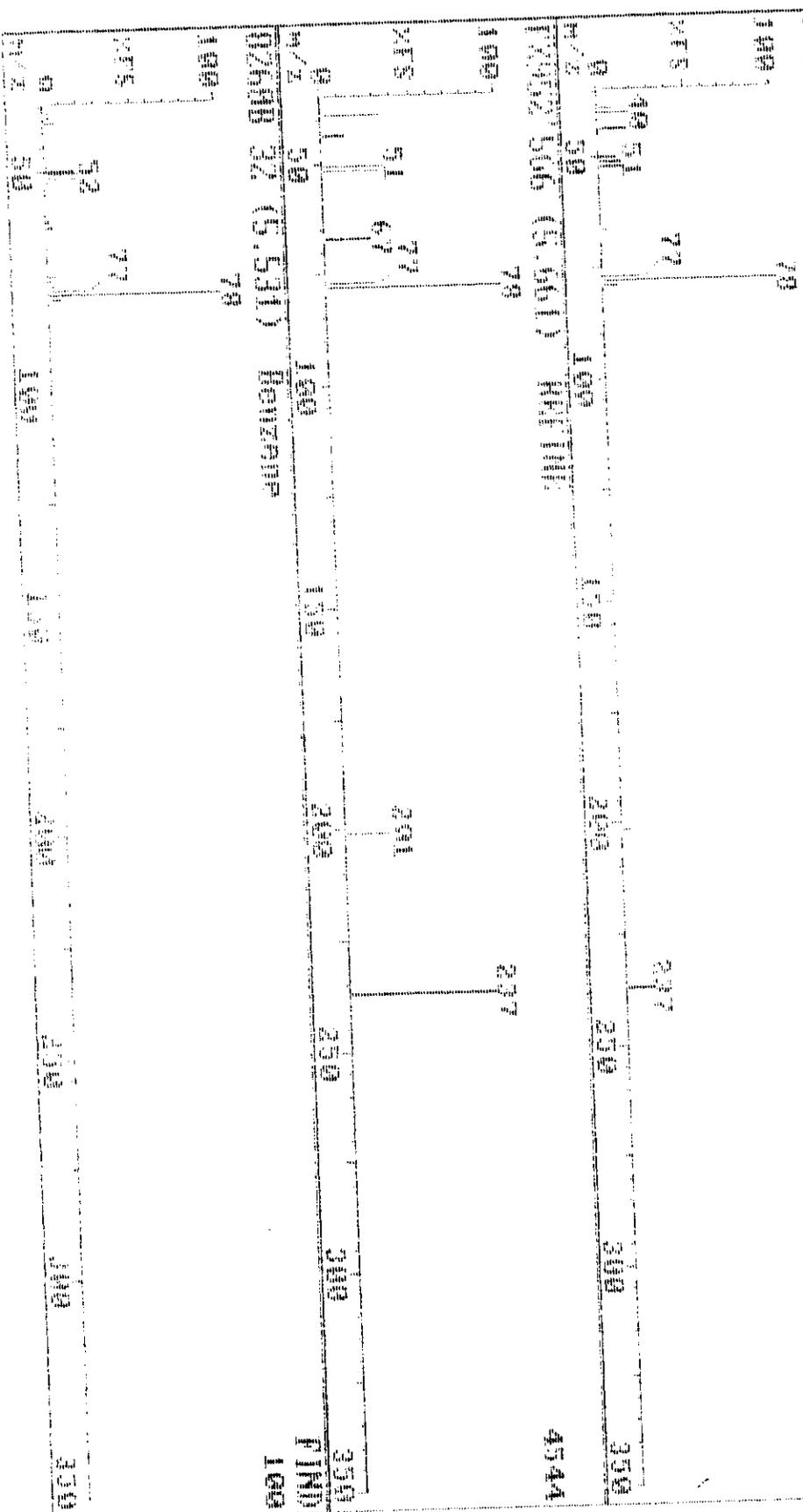
(49) 54-1729

Instrument 1

Sample: USTINK T10

PKZ 566 (5.61)

24776



**Pacific Environmental Services**

Project Number: 46323

Sample File: FX974

Method 8260 VOST

Sample ID: VOSTBLK 082498 T/TC

Client Project: R012.001

Date Received: / /

Response File: ICALF821

TLI ID: VOSTBLK082498

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.33		
Chloromethane		U		0.001	0.05
Vinyl Chloride		U		0.001	0.05
Bromomethane		U		0.001	0.05
Chloroethane		U		0.001	0.05
Trichlorofluoromethane		U		0.001	0.05
1,1-Dichloroethene		U		0.001	0.05
Iodomethane		U		0.001	0.05
Carbon disulfide		U		0.001	0.05
Acetone		U		0.006	0.05
Allyl chloride		U		0.001	0.05
Methylene chloride		U		0.001	0.05
Acrylonitrile		U		0.029	0.05
trans-1,2-Dichloroethene		U		0.001	0.05
1,1-Dichloroethane		U		0.001	0.05
Vinyl acetate		U		0.002	0.05
cis-1,2-Dichloroethene		U		0.001	0.05
2-Butanone		U		0.005	0.05
Chloroform		U		0.001	0.05
1,1,1-Trichloroethane		U		0.001	0.05
1,4-Difluorobenzene		IS 2	6.10		
Carbon tetrachloride		U		0.001	0.05
Benzene		U		0.001	0.05
1,2-Dichloroethane		U		0.001	0.05
Trichloroethene		U		0.001	0.05
1,2-Dichloropropane		U		0.001	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Savar v3.7

Printed: 12:31 08/25/1998

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Pacific Environmental Services

Project Number: 46323  
 Sample File: FX974

Method 8260 VOST  
 Sample ID: VOSTBLK 082498 T/TC

Client Project: R012.001  
 TLI ID: VOSTBLK082498

Date Received: / /

Response File: ICALF821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Methyl methacrylate		U		0.008	0.05
Bromodichloromethane		U		0.001	0.05
cis-1,3-Dichloropropene		U		0.001	0.05
4-Methyl-2-pentanone		U		0.006	0.05
Toluene		U		0.001	0.05
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d <sub>5</sub>		IS 3	10.39		
Tetrachloroethene		U		0.001	0.05
2-Hexanone		U		0.013	0.05
Dibromochloromethane		U		0.001	0.05
1,2-Dibromoethane		U		0.001	0.05
Chlorobenzene		U		0.001	0.05
Ethylbenzene		U		0.001	0.05
m-/p-Xylene		U		0.001	0.10
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d <sub>4</sub>		IS 4	15.79		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.002	0.05

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit  
 IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Pacific Environmental Services

Project Number: 46323

Sample File: FX974

Method 8260 VOST

Sample ID: VOSTBLK 082498 T/TC

Client Project: R012.001

Date Received: / /

Response File: ICALF821

TLI ID: VOSTBLK082498

Date Analyzed: 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.232	5.21	1	93
Toluene-d <sub>8</sub>	0.256	8.03	2	102
4-Bromofluorobenzene	0.198	12.69	2	79

Reviewed by Pab Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

Triangle Laboratories, Inc.

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Pacific Environmental Services

Project Number: 46323  
 Sample File: FX974

Method 8260 VOST  
 Sample ID: VOSTBLK 082498 T/TC

Client Project: R012.001  
 FLI ID: VOSTBLK082498

Date Received: / /

Response File: ICALF824

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.33		0.25
1,3-Butadiene		U		0.001	0.25
Vinyl bromide		U		0.001	0.25
MTBE		U		0.001	0.25
n-Hexane		U		0.035	0.25
1,2-Epoxybutane		U		0.001	0.25
Iso-Octane		U			
1,4-Difluorobenzene		IS 2	6.10		0.25
Ethyl acrylate		U		0.009	0.25

Reviewed by PAB Date 8/25/98

NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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NO	MAT	FOR	REF	Debit	AMOUNT	STAGE	RT	DESCRIPTION
1	100	38	00	0	284729.2	100	5.571	160 Ombaflurone tablets
2	100	37	00	0	101133.6	100	5.101	114 1,1-Dichloroethane
3	100	36	00	0	21300.30	100	11.091	112 Chlorobenzene
4	100	35	00	L	748120	100	15.799	102 1,1-Dichloroethane
5	100	34	00	L	1337024	100	5.211	113 Chloroform
6	100	34	00	0	2465152	100	11.031	28 Chloroform
7	100	32	00	-1	143720	100	12.691	24 Chloroform
8	0	0	0	0	0		0.000	35 Chloroform
9	0	0	0	0	0		0.000	50 Chloroform
10	0	0	0	0	0		0.000	51 Chloroform
11	0	0	0	0	0		0.000	52 Chloroform
12	0	0	0	0	0		0.000	53 Chloroform
13	0	0	0	0	0		0.000	141 Chloroform
14	0	0	0	0	0		0.000	54 Chloroform
15	0	0	0	0	0		0.000	55 Chloroform
16	0	0	0	0	0		0.000	56 Chloroform
17	0	0	0	0	0		0.000	57 Chloroform
18	0	0	0	0	0		0.000	58 Chloroform
19	0	0	0	0	0		0.000	59 Chloroform
20	0	0	0	0	0		0.000	60 Chloroform
21	0	0	0	0	0		0.000	61 Chloroform
22	0	0	0	0	0		0.000	62 Chloroform
23	0	0	0	0	0		0.000	63 Chloroform
24	0	0	0	0	0		0.000	64 Chloroform
25	0	0	0	0	0		0.000	65 Chloroform
26	0	0	0	0	0		0.000	66 Chloroform
27	0	0	0	0	0		0.000	67 Chloroform
28	0	0	0	0	0		0.000	68 Chloroform
29	0	0	0	0	0		0.000	69 Chloroform
30	0	0	0	0	0		0.000	70 Chloroform
31	0	0	0	0	0		0.000	71 Chloroform
32	0	0	0	0	0		0.000	72 Chloroform
33	0	0	0	0	0		0.000	73 Chloroform
34	0	0	0	0	0		0.000	74 Chloroform
35	0	0	0	0	0		0.000	75 Chloroform
36	0	0	0	0	0		0.000	76 Chloroform
37	0	0	0	0	0		0.000	77 Chloroform
38	0	0	0	0	0		0.000	78 Chloroform
39	0	0	0	0	0		0.000	79 Chloroform
40	0	0	0	0	0		0.000	80 Chloroform
41	0	0	0	0	0		0.000	81 Chloroform
42	0	0	0	0	0		0.000	82 Chloroform
43	0	0	0	0	0		0.000	83 Chloroform
44	0	0	0	0	0		0.000	84 Chloroform
45	0	0	0	0	0		0.000	85 Chloroform
46	0	0	0	0	0		0.000	86 Chloroform
47	0	0	0	0	0		0.000	87 Chloroform
48	0	0	0	0	0		0.000	88 Chloroform
49	0	0	0	0	0		0.000	89 Chloroform
50	0	0	0	0	0		0.000	90 Chloroform

Data Review: PAB  
Date: 8/24/98

No.	mol	FOR	REV	Order	Amount	Price	Unit	Chem Name
51	0	0	0	0	0	0.000	1.00	1,1,1,2,2,2-hexafluoroethane
52	0	0	0	0	0	0.000	100	Phenylacetone
53	0	0	0	0	0	0.000	100	acetylacetone
54	0	0	0	0	0	0.000	100	acetone
55	0	0	0	0	0	0.000	100	propene
56	0	0	0	0	0	0.000	171	Diethylamine
57	0	0	0	0	0	0.000	100	benzene
58	0	0	0	0	0	0.000	31	1,1,1,2,2,2-hexafluoroethane
59	0	0	0	0	0	0.000	100	benzoinacetone
60	0	0	0	0	0	0.000	100	1,1,1,2,2,2-hexafluoroethane
61	0	0	0	0	0	0.000	100	propylbenzene
62	0	0	0	0	0	0.000	100	benzoinacetone
63	0	0	0	0	0	0.000	100	benzoinacetone
64	0	0	0	0	0	0.000	100	benzoinacetone
65	0	0	0	0	0	0.000	100	benzoinacetone
66	0	0	0	0	0	0.000	100	benzoinacetone
67	0	0	0	0	0	0.000	100	benzoinacetone
68	0	0	0	0	0	0.000	100	benzoinacetone
69	0	0	0	0	0	0.000	100	benzoinacetone
70	0	0	0	0	0	0.000	100	benzoinacetone
71	0	0	0	0	0	0.000	100	benzoinacetone
72	0	0	0	0	0	0.000	100	benzoinacetone
73	0	0	0	0	0	0.000	100	benzoinacetone
74	0	0	0	0	0	0.000	100	benzoinacetone
75	0	0	0	0	0	0.000	100	benzoinacetone
76	0	0	0	0	0	0.000	100	benzoinacetone
77	0	0	0	0	0	0.000	100	benzoinacetone
78	0	0	0	0	0	0.000	100	benzoinacetone
79	0	0	0	0	0	0.000	100	benzoinacetone
80	0	0	0	0	0	0.000	100	benzoinacetone

QUAN DB : FX974

LAB-PAGE QUAN

10/10/03

11/24

No.	MAT	FOR	REV	DELTA	Amount	P.Flags	RT	QM	Name
1	100	83	99	4	2347952	hb	5.351	108	Pentafluorobenzene
2	100	97	97	-1	5010304	hb	6.101	114	1,4-difluorobenzene
3	100	83	83	-2	2107332	bv	10.721	117	chlorobenzene
4	100	85	94	0	748592	bv	15.722	152	1,4-dichlorobenzene
5	100	96	97	0	1072024	bb	5.211	115	Diisomeric Fluorobenzene
6	100	94	96	-1	5565152	bb	8.031	98	Toluene
7	100	92	92	-2	247970	bb	12.621	95	4-Fluorobenzene
8	0	0	0	0	0		0.000	79	1,1-Dichloroethane
9	0	0	0	0	0		0.000	106	Vinyl Acetate
10	0	0	0	0	0		0.000	15	ATBC
11	0	0	0	0	0		0.000	57	n-Hexane
12	0	0	0	0	0		0.000	97	1,1,2,2-tetrafluoroethane
13	0	0	0	0	0		0.000	7	propyl acetate
14	0	0	0	0	0		0.000	11	Diethyl ether

**TRIANGLE LABS**

CALIBRATION  
DATA

Triangle Laboratories, Inc.  
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919-544-5729

P.O. Box 13485  
Research Triangle Park, NC 27709-3485  
Fax # 919-544-5491

**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALH809  
RF0.10 HW551  
RF0.75 HW554

Date of Analysis :08/09/98  
RF0.25 HW552  
RF1.00 HW555

Analyte List: special  
RF0.50 HW553

VOST Calibration.

Analyte	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	MEAN	%RSD
Pentafluorobenzene	I							
Chloromethane	P	0.387	0.407	0.363	0.343	0.388	0.377	6.6
Vinyl Chloride	C	0.439	0.497	0.449	0.438	0.517	0.468	7.8
Bromomethane		0.412	0.450	0.351	0.421	0.512	0.429	13.7
Chloroethane		0.248	0.276	0.215	0.239	0.292	0.254	11.9
Trichlorofluoromethane		1.009	1.058	0.965	1.028	1.245	1.061	10.2
1,1-Dichloroethene	C	0.442	0.502	0.482	0.381	0.515	0.464	11.7
Iodomethane		0.950	1.061	1.070	0.881	0.944	0.981	8.3
Carbon disulfide		1.060	1.160	1.129	0.896	1.018	1.053	9.9
Acetone		0.055	0.047	0.049	0.036	0.063	0.050	20.3
Allyl chloride		0.386	0.416	0.415	0.309	0.370	0.379	11.6
Methylene chloride		0.392	0.412	0.388	0.289	0.287	0.354	17.2
Acrylonitrile		0.045	0.039	0.041	0.035	0.026	0.037	19.7
trans-1,2-Dichloroethene		0.463	0.488	0.471	0.437	0.366	0.445	10.8
1,1-Dichloroethane	P	0.739	0.762	0.709	0.730	0.723	0.733	2.7
Vinyl acetate		0.409	0.391	0.405	0.395	0.391	0.398	2.1
cis-1,2-Dichloroethene		0.429	0.462	0.444	0.448	0.472	0.451	3.6
2-Butanone		0.073	0.059	0.061	0.060	0.064	0.063	8.8
Chloroform	C	0.756	0.799	0.759	0.751	0.790	0.771	2.8
1,1,1-Trichloroethane		0.699	0.745	0.721	0.717	0.732	0.723	2.4
1,4-Difluorobenzene	I							
Carbon tetrachloride		0.641	0.532	0.501	0.628	0.704	0.601	13.9
Benzene		1.457	0.985	0.984	1.171	1.270	1.173	17.1
1,2-Dichloroethane		0.328	0.296	0.299	0.360	0.412	0.339	14.2
Trichloroethene		0.436	0.443	0.455	0.496	0.384	0.443	9.1
1,2-Dichloropropane	C	0.450	0.426	0.426	0.480	0.344	0.425	11.9
Methyl methacrylate		0.120	0.111	0.116	0.123	0.063	0.107	23.4
Bromodichloromethane		0.667	0.644	0.667	0.796	0.490	0.653	16.7
cis-1,3-Dichloropropene		0.635	0.623	0.609	0.712	0.509	0.618	11.8
4-Methyl-2-pentanone		0.204	0.150	0.159	0.179	0.166	0.172	12.1
Toluene	C	1.054	0.948	0.938	1.133	1.009	1.016	7.9
trans-1,3-Dichloropropene		0.522	0.462	0.461	0.539	0.552	0.507	8.5
1,1,2-Trichloroethane		0.381	0.321	0.305	0.364	0.362	0.347	9.2
Chlorobenzene-d5	I							
Tetrachloroethene		0.388	0.381	0.398	0.403	0.347	0.383	5.7
2-Hexanone	1	0.079	0.061	0.070	0.070	0.081	0.072	11.1
Dibromochloromethane		0.399	0.381	0.408	0.390	0.355	0.387	5.2
1,2-Dibromoethane		0.326	0.297	0.310	0.292	0.277	0.300	6.2

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALH809	Date of Analysis :08/09/98	Analyte List: special
RF0.10 HW551	RF0.25 HW552	RF0.50 HW553
RF0.75 HW554	RF1.00 HW555	

VOST Calibration.

Analyte	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	MEAN	%RSD
Chlorobenzene	P	0.930	0.929	0.979	0.960	0.978	0.955	2.6
Ethylbenzene	C	0.509	0.525	0.542	0.555	0.572	0.541	4.5
m-/p-Xylene		0.628	0.646	0.679	0.697	0.730	0.676	6.0
o-Xylene		0.601	0.605	0.641	0.653	0.701	0.640	6.4
Styrene		0.925	0.957	1.012	1.036	1.121	1.010	7.5
Bromoform	P	0.211	0.193	0.205	0.217	0.215	0.208	4.6
1,4-Dichlorobenzene-d4	I							
Cumene		3.195	2.902	3.063	3.038	2.980	3.036	3.6
1,1,2,2-Tetrachloroethane	P	0.518	0.357	0.362	0.368	0.390	0.399	17.0
Average %RSD								9.7

Surrogate	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	Mean	%RSD
Dibromofluoromethane	S	0.523	0.538	0.522	0.530	0.552	0.533	2.4
Toluene-d8	S	1.422	1.357	1.310	1.625	1.290	1.401	9.7
4-Bromofluorobenzene	S	0.702	0.656	0.636	0.788	0.974	0.751	18.3

Approved by:     *ScB*     Date     8/10/98    

\*- Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: HW552

Date of Analysis :08/09/98

Analyte List: special

ICAL File: ICALH809

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Chloromethane	P	0.407	0.377	-8.0
Vinyl Chloride	C	0.497	0.468	-6.2
Bromomethane		0.450	0.429	-4.9
Chloroethane		0.276	0.254	-8.7
Trichlorofluoromethane		1.058	1.061	0.3
1,1-Dichloroethene	C	0.502	0.464	-8.2
Iodomethane		1.061	0.981	-8.2
Carbon disulfide		1.160	1.053	-10.2
Acetone		0.047	0.050	6.0
Allyl chloride		0.416	0.379	-9.8
Methylene chloride		0.412	0.354	-16.4
Acrylonitrile		0.039	0.037	-5.4
trans-1,2-Dichloroethene		0.488	0.445	-9.7
1,1-Dichloroethane	P	0.762	0.733	-4.0
Vinyl acetate		0.391	0.398	1.8
cis-1,2-Dichloroethene		0.462	0.451	-2.4
2-Butanone		0.059	0.063	6.3
Chloroform	C	0.799	0.771	-3.6
1,1,1-Trichloroethane		0.745	0.723	-3.0
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.532	0.601	11.5
Benzene		0.985	1.173	16.0
1,2-Dichloroethane		0.296	0.339	12.7
Trichloroethene		0.443	0.443	0.0
1,2-Dichloropropane	C	0.426	0.425	-0.2
Methyl methacrylate		0.111	0.107	-3.7
Bromodichloromethane		0.644	0.653	1.4
cis-1,3-Dichloropropene		0.623	0.618	-0.8
4-Methyl-2-pentanone		0.150	0.172	12.8
Toluene	C	0.948	1.016	6.7
trans-1,3-Dichloropropene		0.462	0.507	8.9
1,1,2-Trichloroethane		0.321	0.347	7.5
Chlorobenzene-d5	I			
Tetrachloroethene		0.381	0.383	0.5
2-Hexanone	1	0.061	0.072	15.3
Dibromochloromethane		0.381	0.387	1.6
1,2-Dibromoethane		0.297	0.300	1.0

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: HW552      Date of Analysis :08/09/98      Analyte List: special  
 ICAL File: ICALH809

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Chlorobenzene	P	0.929	0.955	2.7
Ethylbenzene	C	0.525	0.541	3.0
m-/p-Xylene		0.646	0.676	4.4
o-Xylene		0.605	0.640	5.5
Styrene		0.957	1.010	5.2
Bromoform	P	0.193	0.208	7.2
1,4-Dichlorobenzene-d4	I			
Cumene		2.902	3.036	4.4
1,1,2,2-Tetrachloroethane	P	0.357	0.399	10.5

Surrogate	Flag	RF0.25	RFMEAN	%D
Dibromofluoromethane	S	0.538	0.533	-0.9
Toluene-d8	S	1.357	1.401	3.1
4-Bromofluorobenzene	S	0.656	0.751	12.6

Approved by:                     GAB                     Date 8/10/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALF821	Date of Analysis :08/21/98	Analyte List: special
RF0.10 FX943	RF0.25 FX944	RF0.50 FX945
RF0.75 FX946	RF1.00 FX949	

VOST Calibration.

Analyte	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	MEAN	%RSD
Pentafluorobenzene	I							
Chloromethane	P	0.135	0.191	0.176	0.154	0.115	0.154	19.9
Vinyl Chloride	C	0.184	0.230	0.231	0.226	0.185	0.211	11.6
Bromomethane		0.292	0.238	0.237	0.224	0.188	0.236	15.8
Chloroethane		0.166	0.186	0.177	0.166	0.143	0.168	9.5
Trichlorofluoromethane		0.827	0.854	0.831	0.773	0.673	0.792	9.2
1,1-Dichloroethene	C	0.356	0.369	0.361	0.337	0.311	0.347	6.7
Iodomethane		0.457	0.443	0.462	0.463	0.441	0.453	2.3
Carbon disulfide		0.900	0.869	0.888	0.849	0.709	0.843	9.2
Acetone		0.014	0.017	0.038	0.035	0.051	0.031	50.5
Allyl chloride		0.245	0.276	0.290	0.265	0.240	0.263	8.0
Methylene chloride		0.271	0.268	0.270	0.258	0.252	0.264	3.1
Acrylonitrile		0.002	0.006	0.009	0.007	0.008	0.006	39.9
trans-1,2-Dichloroethene		0.416	0.429	0.409	0.395	0.361	0.402	6.4
1,1-Dichloroethane	P	0.581	0.592	0.596	0.572	0.540	0.576	3.9
Vinyl acetate		0.064	0.069	0.091	0.099	0.104	0.085	21.1
cis-1,2-Dichloroethene		0.346	0.369	0.376	0.371	0.360	0.365	3.2
2-Butanone		0.017	0.015	0.031	0.035	0.062	0.032	58.6
Chloroform	C	0.761	0.739	0.744	0.721	0.678	0.729	4.4
1,1,1-Trichloroethane		0.848	0.861	0.844	0.832	0.772	0.831	4.2
1,4-Difluorobenzene	I							
Carbon tetrachloride		0.812	0.729	0.709	0.724	0.686	0.732	6.5
Benzene		1.077	1.127	1.136	1.120	0.972	1.086	6.2
1,2-Dichloroethane		0.220	0.231	0.253	0.256	0.252	0.242	6.6
Trichloroethene		0.404	0.426	0.431	0.436	0.434	0.426	3.1
1,2-Dichloropropane	C	0.216	0.225	0.245	0.262	0.264	0.242	8.9
Methyl methacrylate		0.016	0.015	0.020	0.023	0.026	0.020	23.1
Bromodichloromethane		0.383	0.403	0.428	0.462	0.466	0.428	8.4
cis-1,3-Dichloropropene		0.224	0.267	0.307	0.370	0.386	0.311	22.0
4-Methyl-2-pentanone		0.013	0.026	0.035	0.026	0.032	0.027	31.9
Toluene	C	0.822	0.901	0.900	0.920	0.872	0.883	4.4
trans-1,3-Dichloropropene		0.118	0.147	0.174	0.229	0.230	0.180	27.7
1,1,2-Trichloroethane		0.117	0.123	0.133	0.146	0.150	0.134	10.5
Chlorobenzene-d5	I							
Tetrachloroethene		0.515	0.532	0.516	0.521	0.526	0.522	1.3
2-Hexanone	1	0.002	0.004	0.016	0.011	0.058	0.018	127.2
Dibromochloromethane		0.200	0.201	0.215	0.227	0.246	0.218	8.8
1,2-Dibromoethane		0.147	0.151	0.163	0.187	0.181	0.166	10.7

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

Triangle Laboratories, Inc.  
Initial Calibration Curve

ICAL File: ICALF821	Date of Analysis :08/21/98	Analyte List: special
RF0.10 FX943	RF0.25 FX944	RF0.50 FX945
RF0.75 FX946	RF1.00 FX949	

VOST Calibration.

Analyte	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	MEAN	%RSD
Chlorobenzene	P	1.092	1.046	1.061	1.063	1.032	1.059	2.1
Ethylbenzene	C	0.660	0.721	0.727	0.719	0.687	0.703	4.1
m-/p-Xylene		0.880	0.897	0.897	0.855	0.731	0.852	8.2
o-Xylene		0.649	0.712	0.755	0.747	0.725	0.718	5.8
Styrene		0.800	0.901	0.946	0.982	0.983	0.922	8.2
Bromoform	P	0.082	0.077	0.084	0.078	0.091	0.082	7.1
1,4-Dichlorobenzene-d4	I							
Cumene		7.662	6.642	6.797	6.157	4.138	6.279	20.9
1,1,2,2-Tetrachloroethane	P	0.360	0.255	0.254	0.267	0.225	0.272	18.9
Average %RSD								15.6

Surrogate	Flag	RF0.10	RF0.25	RF0.50	RF0.75	RF1.00	Mean	%RSD
Dibromofluoromethane	S	0.394	0.391	0.392	0.397	0.392	0.393	0.6
Toluene-d8	S	1.020	1.146	1.236	1.260	1.112	1.155	8.4
4-Bromofluorobenzene	S	0.377	0.362	0.414	0.399	0.427	0.396	6.7

Approved by: PUB Date 8/26/98

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX944	Date of Analysis :08/21/98	Analyte List: special
ICAL File: ICALF821		

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Chloromethane	P	0.191	0.154	-24.0
Vinyl Chloride	C	0.230	0.211	-9.0
Bromomethane		0.238	0.236	-0.8
Chloroethane		0.186	0.168	-10.7
Trichlorofluoromethane		0.854	0.792	-7.8
1,1-Dichloroethene	C	0.369	0.347	-6.3
Iodomethane		0.443	0.453	2.2
Carbon disulfide		0.869	0.843	-3.1
Acetone		0.017	0.031	45.2
Allyl chloride		0.276	0.263	-4.9
Methylene chloride		0.268	0.264	-1.5
Acrylonitrile		0.006	0.006	0.0
trans-1,2-Dichloroethene		0.429	0.402	-6.7
1,1-Dichloroethane	P	0.592	0.576	-2.8
Vinyl acetate		0.069	0.085	18.8
cis-1,2-Dichloroethene		0.369	0.365	-1.1
2-Butanone		0.015	0.032	53.1
Chloroform	C	0.739	0.729	-1.4
1,1,1-Trichloroethane		0.861	0.831	-3.6
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.729	0.732	0.4
Benzene		1.127	1.086	-3.8
1,2-Dichloroethane		0.231	0.242	4.5
Trichloroethene		0.426	0.426	0.0
1,2-Dichloropropane	C	0.225	0.242	7.0
Methyl methacrylate		0.015	0.020	25.0
Bromodichloromethane		0.403	0.428	5.8
cis-1,3-Dichloropropene		0.267	0.311	14.1
4-Methyl-2-pentanone		0.026	0.027	3.7
Toluene	C	0.901	0.883	-2.0
trans-1,3-Dichloropropene		0.147	0.180	18.3
1,1,2-Trichloroethane		0.123	0.134	8.2
Chlorobenzene-d5	I			
Tetrachloroethene		0.532	0.522	-1.9
2-Hexanone	1	0.004	0.018	77.8
Dibromochloromethane		0.201	0.218	7.8
1,2-Dibromoethane		0.151	0.166	9.0

\*- Fails QC Criteria for %D; << - Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX944      Date of Analysis :08/21/98      Analyte List: special  
 ICAL File: ICALF821  
 VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Chlorobenzene	P	1.046	1.059	1.2
Ethylbenzene	C	0.721	0.703	-2.6
m-/p-Xylene		0.897	0.852	-5.3
o-Xylene		0.712	0.718	0.8
Styrene		0.901	0.922	2.3
Bromoform	P	0.077	0.082	6.1
1,4-Dichlorobenzene-d4	I			
Cumene		6.642	6.279	-5.8
1,1,2,2-Tetrachloroethane	P	0.255	0.272	6.2

Surrogate	Flag	RF0.25	RFMEAN	%D
Dibromofluoromethane	S	0.391	0.393	0.5
Toluene-d8	S	1.146	1.155	0.8
4-Bromofluorobenzene	S	0.362	0.396	8.6

Approved by:     PAB     Date 8/26/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX971

Date of Analysis :08/24/98

Analyte List: special

ICAL File: ICALF821

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Pentafluorobenzene	I			
Chloromethane	P	0.123	0.154	20.1
Vinyl Chloride	C	0.212	0.211	-0.5
Bromomethane		0.233	0.236	1.3
Chloroethane		0.166	0.168	1.2
Trichlorofluoromethane		0.616	0.792	22.2
1,1-Dichloroethene	C	0.306	0.347	11.8
Iodomethane		0.567	0.453	-25.2
Carbon disulfide		1.007	0.843	-19.5
Acetone		0.014	0.031	54.8
Allyl chloride		0.226	0.263	14.1
Methylene chloride		0.234	0.264	11.4
Acrylonitrile		0.005	0.006	16.7
trans-1,2-Dichloroethene		0.326	0.402	18.9
1,1-Dichloroethane	P	0.561	0.576	2.6
Vinyl acetate		0.050	0.085	41.2
cis-1,2-Dichloroethene		0.297	0.365	18.6
2-Butanone		0.008	0.032	75.0
Chloroform	C	0.605	0.729	17.0
1,1,1-Trichloroethane		0.643	0.831	22.6
1,4-Difluorobenzene	I			
Carbon tetrachloride		0.802	0.732	-9.6
Benzene		1.365	1.086	-25.7
1,2-Dichloroethane		0.260	0.242	-7.4
Trichloroethene		0.514	0.426	-20.7
1,2-Dichloropropane	C	0.261	0.242	-7.9
Methyl methacrylate		0.016	0.020	20.0
Bromodichloromethane		0.433	0.428	-1.2
cis-1,3-Dichloropropene		0.312	0.311	-0.3
4-Methyl-2-pentanone		0.029	0.027	-7.4
Toluene	C	0.967	0.883	-9.5
trans-1,3-Dichloropropene		0.162	0.180	10.0
1,1,2-Trichloroethane		0.130	0.134	3.0
Chlorobenzene-d5	I			
Tetrachloroethene		0.773	0.522	-48.1
2-Hexanone	1	0.003	0.018	83.3
Dibromochloromethane		0.276	0.218	-26.6
1,2-Dibromoethane		0.184	0.166	-10.8

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX971  
 ICAL File: ICALF821

Date of Analysis :08/24/98

Analyte List: special

VOST Calibration.

Analyte	Flag	RF0.25	RFMEAN	%D
Chlorobenzene	P	1.149	1.059	-8.5
Ethylbenzene	C	0.791	0.703	-12.5
m-/p-Xylene		0.986	0.852	-15.7
o-Xylene		0.801	0.718	-11.6
Styrene		0.998	0.922	-8.2
Bromoform	P	0.109	0.082	-32.9
1,4-Dichlorobenzene-d4	I			
Cumene		6.434	6.279	-2.5
1,1,2,2-Tetrachloroethane	P	0.257	0.272	5.5

Surrogate	Flag	RF0.25	RFMEAN	%D
Dibromofluoromethane	S	0.308	0.393	21.6
Toluene-d8	S	1.230	1.155	-6.5
4-Bromofluorobenzene	S	0.379	0.396	4.3

Approved by: PARB Date 8/26/98

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

Triangle Laboratories, Inc.  
Initial Calibration Curve

ICAL File: ICALH809  
RF0.50 HW557

Date of Analysis :08/09/98

Analyte List: short

VOST Calibration.

Analyte	Flag	RF0.50	MEAN	%RSD
Pentafluorobenzene	I			
1,3-Butadiene		0.446	0.446	0.0
Vinyl bromide		0.502	0.502	0.0
MTBE		0.124	0.124	0.0
n-Hexane		0.692	0.692	0.0
1,2-Epoxybutane		0.005	0.005	0.0 <<
Iso-Octane		1.536	1.536	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.230	0.230	0.0
Average %RSD				0.0

Approved by: PAW Date 8/10/98

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: HW557	Date of Analysis :08/09/98	Analyte List: short
ICAL File: ICALH809		
VOST Calibration.		

Analyte	Flag	RF0.50	RFMEAN	%D	
Pentafluorobenzene	I				
1,3-Butadiene		0.446	0.446	0.0	
Vinyl bromide		0.502	0.502	0.0	
MTBE		0.124	0.124	0.0	
n-Hexane.		0.692	0.692	0.0	
1,2-Epoxybutane		0.005	0.005	0.0	<<
Iso-Octane		1.536	1.536	0.0	
1,4-Difluorobenzene	I				
Ethyl acrylate		0.230	0.230	0.0	

Approved by:     PAB     Date     8/10/98    

\*- Fails QC Criteria for %D; << - Rf less than minimum QC RF; >>- RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Initial Calibration Curve**

ICAL File: ICALF821 RF0.50 FX950	Date of Analysis :08/21/98	Analyte List: short
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VOST Calibration.

Analyte	Flag	RF0.50	MEAN	%RSD
Pentafluorobenzene	I			
1,3-Butadiene		0.163	0.163	0.0
Vinyl bromide		0.321	0.321	0.0
MTBE		0.362	0.362	0.0
n-Hexane		0.500	0.500	0.0
1,2-Epoxybutane		0.006	0.006	0.0 <<
Iso-Octane		1.726	1.726	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.032	0.032	0.0
Average %RSD				0.0

Approved by: PAB Date 8/25/98

\*- Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

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**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX950

Date of Analysis :08/21/98

Analyte List: short

ICAL File: ICALF821

VOST Calibration.

Analyte	Flag	RF0.50	RFMEAN	%D
Pentafluorobenzene	I			
1,3-Butadiene		0.163	0.163	0.0
Vinyl bromide		0.321	0.321	0.0
MTBE		0.362	0.362	0.0
n-Hexane		0.500	0.500	0.0
1,2-Epoxybutane		0.006	0.006	0.0
Iso-Octane		1.726	1.726	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.032	0.032	0.0
Chlorobenzene-d5	I			
1,4-Dichlorobenzene-d4	I			

Surrogate	Flag	RF0.50	RFMEAN	%D
Dibromofluoromethane	S	0.202	0.202	0.0
Toluene-d8	S	0.593	0.593	0.0
4-Bromofluorobenzene	S	0.091	0.091	0.0

Approved by:     PAB     Date   8/25/98  

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF

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Triangle Laboratories, Inc.  
Initial Calibration Curve

ICAL File: ICALF824      Date of Analysis :08/24/98      Analyte List: short  
RF0.50 FX972

VOST Calibration.

Analyte	Flag	RF0.50	MEAN	%RSD
Pentafluorobenzene	I			
1,3-Butadiene		0.140	0.140	0.0
Vinyl bromide		0.272	0.272	0.0
MTBE		0.225	0.225	0.0
n-Hexane		0.488	0.488	0.0
1,2-Epoxybutane		0.005	0.005	0.0 <<
Iso-Octane		1.687	1.687	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.018	0.018	0.0
Average %RSD				0.0

Approved by: GAB      Date 8/25/98

\* - Fails QC Criteria for %RSD; << - RF less than minimum QC RF; >> - RF greater than maximum QC RF

**Triangle Laboratories, Inc.**  
**Continuing Calibration Curve**

CCAL File: FX972	Date of Analysis :08/24/98	Analyte List: short
ICAL File: ICALF824		

VOST Calibration.

Analyte	Flag	RF0.50	RFMEAN	%D	
Pentafluorobenzene	I				
1,3-Butadiene		0.140	0.140	0.0	
Vinyl bromide		0.272	0.272	0.0	
MTBE		0.225	0.225	0.0	
n-Hexane		0.488	0.488	0.0	
1,2-Epoxybutane		0.005	0.005	0.0	<<
Iso-Octane		1.687	1.687	0.0	
1,4-Difluorobenzene	I				
Ethyl acrylate		0.018	0.018	0.0	

Approved by:     *PAB*     Date     8/25/98    

\*- Fails QC Criteria for %D; <<- Rf less than minimum QC RF; >>- RF greater than maximum QC RF



## TECHNICAL REPORT DATA

Please read instructions on the reverse before completing

1. REPORT NO. EPA-454/R-00-025G	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Final Report Hot Mix Asphalt Plants, Truck Loading and Silo Filling, Manual Methods Testing, Asphalt Plant C, Los Angeles, California  Volume 7 of 8	5. REPORT DATE May 2000	
	6. PERFORMING ORGANIZATION CODE	
7. AUTHOR(S) Frank J. Phoenix	8. PERFORMING ORGANIZATION REPORT NO.	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Pacific Environmental Services, Inc. Post Office Box 12077 Research Triangle Park, North Carolina 27709-2077	10. PROGRAM ELEMENT NO.	
	11. CONTRACT/GRANT NO. 68-D-98004	
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Emissions, Monitoring and Analysis Division Research Triangle Park, North Carolina 27711	13. TYPE OF REPORT AND PERIOD COVERED Final	
	14. SPONSORING AGENCY CODE EPA/200/04	
15. SUPPLEMENTARY NOTES		
16. ABSTRACT  The United States Environmental Protection Agency (EPA) Office of Air Quality Planning and Standards (OAQPS) is investigating hot mix asphalt plants to identify and quantify particulate matter (PM), methylene chloride extractable matter (MCEM), and organic hazardous air pollutant (HAP) emissions during asphalt concrete loading operations. In support of this investigation, the OAQPS issued Pacific Environmental Services, Inc. (PES) a series of work assignments to conduct emissions testing at a hot mix asphalt plant during load-out operations.  The primary objective of the emissions testing was to characterize the uncontrolled emissions of PM, MCEM, polynuclear aromatic hydrocarbons (PAHs), semi-volatile organic hazardous air pollutants (SVOHAPS), and volatile organic hazardous air pollutants (VOHAPS) from a hot mix production plant during loading operations. An asphalt plant south of Los Angeles, California was selected by EPA as the host facility. Testing was performed over five consecutive days beginning on July 24, 1998. Testing was performed under two conditions. Under normal operations, testing was performed to characterize load-out emissions from the tunnel exhaust and load-in emissions from the asphalt concrete storage silo. Under background conditions, testing was performed to characterize emissions from the combustion of diesel fuel in transport trucks.  The entire report consists of eight volumes totaling 4,234 pages, Vol. 1 (388 pages), Vol. 2 (308 pages), Vol. 3 (573 pages), Vol. 4 (694 pages), Vol. 5 (606 pages), Vol. 6 (564 pages), Vol. 7 (570 pages), and Vol. 8 (531 pages).		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTIONS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COASTI Field/Group
Hazardous Air Pollutants Methylene Chloride Extractable Matter Particulate Matter Polynuclear Aromatic Hydrocarbons Semi-volatile Organic Hazardous Air Pollutants Volatile Organic Hazardous Air Pollutants		
18. DISTRIBUTION STATEMENT  Unlimited	19. SECURITY CLASS ( <i>This Report</i> ) Unclassified	21. NO. OF PAGES Vol. 7 - 570
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