
AIR



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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

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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

1a



TRIANGLE LABS

CASE NARRATIVE

Analysis of Samples for the Presence of

Volatile Analytes by

High-Resolution Gas Chromatography / Low-Resolution Mass Spectrometry

METHOD 8260

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-d₃** and **1,4-dichlorobenzene-d₄**. The surrogate standards reported are dibromofluoromethane, **toluene-d₈**, 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-d₈** 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**.
162 % 170 % ACCEPTABLE RANGE 50 - 150 %

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

Valgena Respass
Report Preparation Chemist

Penny A. Brock

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

Client Id:	TLI Id:	File Name:
T-V-I-1-AT	214-1-6A	FX883
T-V-I-1-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-I-1-A	T-V-I-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)

(.)-Estimated Detection Limit

Page 1

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)

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-I-88	214-I-98	VOSTBLK08179	VOSTBLK08189	VOSTBLK08199
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)

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()-Estimated Detection Limit Page 4

Triangle Laboratories, Inc.
Project Summary for Project 46297

Client ID:	T-V-1-1-A TC	T-V-1-1-B TC	T-V-1-2-A T	T-V-1-2-B TC	T-V-1-3-A 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 C	T-V-I-4-B T C	VOSTBLK081 798	VOSTBLK081 898	VOSTBLK081 998
Filename :	FX882	FX881	FX878	FX894	HW705
TLI Id :	214-I-88	214-I-9B	VOSTBLK08179	VOSTBLK08189	VOSTBLK08199
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)	(0.001)
n-Hexane	0.001	0.004	(0.001)	(0.001)	0.001
1,2-Epoxybutane	(0.011)	(0.011)	(0.011)	(0.020)	(0.017)
Iso-Octane	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Ethyl acrylate	(0.003)	(0.003)	(0.002)	(0.004)	(0.001)



()-Estimated Detection Limit

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PRINCELE LABS

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



(919) 941-0333 FAX: (919) 941-0234

Sample Chain of Custody Record

[illegible]

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

Sample Seals: Absent
Container: Intact

COPY
07/25/98

TRIANGLE LABORATORIES, INC. -- LOG IN RECORD/CHAIN OF CUSTODY
TUI Project Number 46297
Client: PES03 - Pacific Environmental Services
Date Received 07/25/98 By *[Signature]*
Carrier and Number Fedex/
Page 1

Ice Chest		ICE/ICE PACKS		Temp		6.0 C					
TUI Number	Client Sample ID	Matrix	To LAB	To STORAGE	To LAB	To STORAGE	To LAB	To STORAGE	To LAB	To STORAGE	DISPOSED
MR/H:CPM	Client COC ID	Location	Date/Init	Date/Init	Date/Init	Date/Init	Date/Init	Date/Init	Date/Init	Date/Init	Date/Init
214-1-1A	S-V-1-1-A S-V-1-1-A	R03	TENAX								
214-1-1B	S-V-1-1-B S-V-1-1-B	R03	TNX/CHAR								
214-1-2A	S-V-1-2-A S-V-1-2-A	R03	TENAX								
214-1-2B	S-V-1-2-B S-V-1-2-B	R03	TNX/CHAR								
214-1-3A	S-V-1-3-A S-V-1-3-A	R03	TENAX								
214-1-3B	S-V-1-3-B S-V-1-3-B	R03	TNX/CHAR								
214-1-4A	S-V-1-4-A S-V-1-4-A	R03	TENAX								
214-1-4B	S-V-1-4-B S-V-1-4-B	R03	TNX/CHAR								
214-1-5A	S-V-1-3-A (Typed label) S-V-1-3-A (Typed label)	R03	TENAX								
214-1-5B	S-V-1-3-B (Typed label) S-V-1-3-B (Typed label)	R03	TNX/CHAR								
214-1-6A	T-V-1-1-A T-V-1-1-A	R03	TENAX								
214-1-6B	T-V-1-1-B T-V-1-1-B	R03	TNX/CHAR								
214-1-7A	T-V-1-2-A T-V-1-2-A	R03	TENAX								
214-1-7B	T-V-1-2-B T-V-1-2-B	R03	TNX/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:

Tbl Project Number 46297
Client: PES03 - Pacific Environmental Services

Page

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DATE	TO LAB	TO STORAGE	TO LAB	TO STORAGE	DISPOSED
1					

100

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			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
VS4-92-3 exp. 8/22/98	VS4-92-2 exp. 8/20/98		

Extract / Sample volume _____ µL mL
Signature James E. Stewart Date 8/14

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/2/98	13:39	—	2nd VS4-92-3 exp 8/22/98	BFB	FX850	n/a			16	
8/13/98	00:01	—	2nd VS4-92-3 exp 8/22/98	BFB	FX851	n/a	16 8/13/98		16	
8/13/98	00:40	—	10nd VS4-93-1 exp 8/22/98	VOSTD01U T/TC	FX852	n/a	16 8/13/98		16	Scal pt.
8/13/98	1:25	—	10nd VS4-93-1 exp 8/22/98	VOSTD01U T/TC	FX853	n/a	16 8/13/98		16	Scal pt.
8/13/98	3:02	—	10nd VS4-93-2 exp 8/22/98	VOSTD02S T/TC	FX854	n/a	16 8/13/98		16	Scal pt.
8/13/98	3:50	—	10nd VS4-93-3 exp 8/22/98	VOSTD050 T/TC	FX855	n/a	16 8/13/98		16	Scal pt.
8/13/98	4:51	—	10nd VS4-93-4 exp 8/22/98	VOSTD00.75 T/TC	FX856	n/a	16 8/13/98		16	Scal pt.
8/13/98	5:34	—	10nd VS4-94-1 exp 8/22/98	VOSTD01.00 T/TC	FX857	n/a	16 8/13/98		16	Scal pt.
8/13/98		—	10nd VS4-92-2 exp 8/22/98	VOSTBLK T/TC	FX858	n/a	16 8/13/98		16	
8/13/98		—	10nd VS4-94-1 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*
DB624	652653	8260	UaA	UaA3	82605	

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
V5-92-3 44.82458 @ 25ug/L	V5-92-2 44.82458 @ 25ug/L	

Extract / Sample volume _____ Circle unit
_____ µL _____ mL
Signature: *Looney C. Spawell* 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 44.82458	BFB	EX870	N/A	SL 8/17/98	1	SL	only 95/175 ions displayed raised multi-phase 8/12/98
8/17/98	09:48	—	V5-92-3 44.82458	BFB	EX871	N/A	SL 8/17/98	1	SL	OK scan # 483 4/2/98
8/17/98	10:23	—	V5-92-4 44.82458	VOSTD0.25 TITC	EX872	N/A	SL 8/17/98	1	SL	lib327CA 2.3 OK per D. Hough 8/17/98
8/17/98	11:24	—	V5-92-3 44.82458	VOSTD0.10 TITC	EX873	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	12:07	—	V5-93-4 44.82458	VOSTD0.50 TITC	EX874	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	13:33	—	V5-94-3 44.82458	VOSTD0.50 TITC	EX875	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	14:12	—	V5-94-3 44.82458	VOSTD0.50 TITC	EX876	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	15:01	—	V5-94-3 44.82458	VOSTD0.50 TITC	EX877	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	15:51	—	V5-94-3 44.82458	VOSTD0.50 TITC	EX878	N/A	SL 8/17/98	1	SL	IC & Pmt not used
8/17/98	16:47	—	V5-94-3 44.82458	VOSTD0.50 TITC	EX879	N/A	SL 8/17/98	1	SL	IC & Pmt not used

Triangle Laboratories, Inc.
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	60250623	8260	NOA	NOA3	8260B	8260BX

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
YS9-q2-3 @25ug/ml	YSTD-00 n.61.77x		
EXP 8122198	YS9-q2-2 exp 8122198 @25ug/ml		

Extract / Sample volume _____ µL mL
Circle unit

Signature _____ Date _____

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	1730	46097	24-1-7B	T-V-1-2-B	EX880	N/A	MS817198	6/18/98	YR	
8/17/98	1830	46097	24-1-9B	T-V-1-4-B	EX881	N/A	MS817198		YR	
8/17/98	1917	46097	24-1-8B	T-V-1-3-B	EX882	N/A	MS817198		YR	
8/19/98	1955	46097	24-1-10A	T-V-1-1-A	EX883	N/A	MS817198		LC	
8/19/98	00:19	—	70ug US4-q2-3 exp 8/18/98	UBLK	EX884	N/A	LC 8/18/98		LC	
8/19/98	00:47	—	10ug US4-q2-1 exp 8/18/98	USTD200	EX885	N/A	LC 8/18/98		LC	
8/19/98	1:24	—	10ug US4-q2-3 exp 8/18/98	UBLK	EX886	N/A	LC 8/18/98		LC	
8/19/98	2:16	—	10ug US4-q2-4 exp 8/18/98	BEF3	EX887	N/A	LC 8/18/98		LC	
8/19/98	3:02	—	10ug US4-q2-4 exp 8/18/98	USTD0.25 T1T1	EX888	N/A	LC 8/18/98		LC	take lead 8/18/98
8/19/98	3:52	—	10ug US4-q2-4 exp 8/18/98	USTD0.25 T1T1	EX889	N/A	LC 8/18/98		LC	take lead 8/18/98

Triangle Laboratories, Inc.
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	8260	UOA	UOA3	82605	

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
USA-423 avg 8/14/98 @ 25 ug/mL	USA-443 avg 8/14/98 @ 25 ug/mL		

Extract / Sample volume _____ Circle unit
µL mL
Signature Larry Gault Date 8/14/98

Date**	Time**	Project	Sample #	Client ID	Filenam	pH*	Operator/Date	Backup*	Proc	Comments***
8/14/98	4:44	—	100µl USA-44-3 avg 8/14/98	VOSTBLK T/TC	FX840	n/A	LG 8/14/98	8/14/98	LG	
8/14/98	5:26	100µl USA-40-2 avg 8/14/98	100µl USA-44-3 avg 8/14/98	VOSTDOSO T/TC Additional	FX841	n/A	LG 8/14/98		LG	
8/14/98	7:03	—	100µl USA-44-3 avg 8/14/98	VOSTBLK T/TC	FX842	n/A	LG 8/14/98		LG	
8/14/98	7:17	—	100µl USA-44-3 avg 8/14/98	VOSTBLK T/TC	FX843	n/A	LG 8/14/98		LG	
8/14/98	12:46	—	100µl USA-44-3 avg 8/14/98	VOSTBLK T/TC	FX844	n/A	LG 8/14/98		LG	
8/14/98	14:17	46297	100µl USA-44-3 avg 8/14/98	LT-V-1-2 A T	FX895	n/A	LG 8/14/98	8/14/98	LG	Had to replace fitting and line on cage valve
8/14/98	23:59	—	100µl USA-44-3 avg 8/14/98	VBLK	FX896	n/A	LG 8/14/98	1	LG	
8/14/98	1:15	—	100µl USA-44-1 avg 8/14/98	USTD200	FX897	n/A	LG 8/14/98		LG	
8/14/98	1:46	—	100µl USA-42-3 avg 8/14/98	RFB	FX898	n/A	LG 8/14/98		LG	
8/14/98	3:35	—	100µl USA-42-4 avg 8/14/98	VOSTDOSO T/TC	FX900	n/A	LG 8/14/98		LG	Sensitivity low Low

Triangle Laboratories, Inc.
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	3274056	8260	USA	USA3	8260B	8266X

Standards

Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte
VSS-92-3 app. 824541 @ 25461	VSS-92-2 app. 824179 @ 25461	

Extract / Sample volume _____ µL _____ mL

Signature Tony C. Spence Date 8/5/98

Date**	Time**	Project	Sample #	Client ID	Filenam	pH*	Operator/Date	Backup*	Proc	Comments***
8/1/98	01:57	—	2.00 VSS-92-3 app. 824541	8-8	HW549	N/A	SL 8/5/98	10 shaker	SL	
8/1/98	02:26	—	10.00 VSS-92-4 app. 822198	VOSTD0.10 TITC	HW550	N/A	SL 8/5/98		SL	
8/1/98	03:17	—	10.00 VSS-92-4 app. 822198	VOSTD0.10 TITC	HW551	N/A	SL 8/5/98		SL	
8/1/98	03:52	—	10.00 VSS-92-4 app. 822198	VOSTD0.25 TITC	HW552	N/A	SL 8/5/98		SL	
8/1/98	04:23	—	10.00 VSS-92-4 app. 822198	VOSTD0.50 TITC	HW553	N/A	SL 8/5/98		SL	
8/1/98	04:55	—	10.00 VSS-92-4 app. 822198	VOSTD0.75 TITC	HW554	N/A	SL 8/5/98		SL	
8/1/98	05:27	—	10.00 VSS-92-4 app. 822198	VOSTD1.00 TITC	HW555	N/A	SL 8/5/98		SL	
8/1/98	06:01	—	10.00 VSS-92-2 app. 824179	VB1K	HW556	N/A	SL 8/5/98		SL	
8/1/98	06:40	—	10.00 VSS-92-2 app. 824179	VOSTD0.50 TITC	HW557	N/A	SL 8/5/98		SL	single pt.
8/1/98	07:49	—	10.00 VSS-92-2 app. 824179	VOSTB1K TITC	HW558	N/A	SL 8/5/98	10 shaker	SL	

• 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	Vol	Vol 3	F2608	

Standards			Analyte
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery		
US-92-2	US-94-3		
exp. 8/24/98	exp. 8/26/98		

Extract / Sample volume _____ µL mL
 Signature Lucy C. Knevel Date 8/11/98

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/10/98	10:47	46415A	215-14-8A	Con1-MU030-TX-R2C	Hw658	N/A	Jal 8/11/98	8/11/98	✓	moisture from TGA 8/11/98
8/10/98	12:22	—	N/A	VOSTBLK +TTC	Hw659	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98	13:45	46415A	215-14-5B	Con1-MU030-TX-R2D	Hw700	N/A	Jal 8/11/98	8/11/98	✓	moisture analysis 8/11/98
8/10/98	14:25	46415A	215-15-5A	Con1-MU030-TX-R2D	Hw701	N/A	Jal 8/11/98	8/11/98	✓	moisture analysis 8/11/98
8/10/98	00:47	—	327-02-3	BFB	Hw702	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98	1:18	—	1024-43-2	VOSTD0.25 T/Tc	Hw703	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98	1:57	—	1024-44-3	VOSTBLK T/Tc	Hw704	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98	2:36	—	1024-44-3	VOSTBLK T/Tc	Hw705	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98	3:58	US-94-2	US-94-3	LCS T/Tc	Hw706	N/A	Jal 8/11/98	8/11/98	✓	
8/10/98		US-94-2	US-94-3	LCS T/Tc	Hw707	N/A	Jal 8/11/98	8/11/98	✓	

• 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	VOA	VOA3	8260B	

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
usa-a2-3 exp 8/12/98 @ 25ug/ml	usa-a1-3 exp 8/12/98 @ 25ug/ml		

Extract / Sample volume _____ Circle unit
µl ml
 Signature 1 mg cell 8/19/98 Date

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/19/98	5:20	usa-a2-3 exp 8/12/98	usa-a1-3 exp 8/12/98	Additional 5	HW708	n/a	lc 8/19/98	lc	lc	
8/19/98	6:27	usa-a2-3 exp 8/12/98	usa-a1-3 exp 8/12/98	LCSD TITC	HW709	n/a	lc 8/19/98	lc	lc	
8/19/98	07:17	usa-a2-3 exp 8/12/98	usa-a1-3 exp 8/12/98	LCSD TITC	HW710	n/a	lc 8/19/98	lc	lc	
8/19/98	08:14	—	usa-a1-3 exp 8/12/98	LCSD TITC	HW711	n/a	lc 8/19/98	lc	lc	
8/19/98	08:55	—	usa-a1-3 exp 8/12/98	LCSD TITC	HW712	n/a	lc 8/19/98	lc	lc	
8/19/98	10:06	46257	214-1-8A	T-V-1-3-A T	HW713	n/a	lc 8/19/98	lc	lc	
8/19/98	10:56	46257	214-1-9A	T-V-1-4-A T	HW714	n/a	lc 8/19/98	lc	lc	

acquisition details no
peaks for 33
sample does not contain

* Volatile Data Only ** Transcribed Data *** Dated Signature/Initials Required

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: 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 ng	FLAG	RT	Det. Limit ug	Quan. Limit ng
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 ₅		IS 3	10.35		0.05
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 ₄		IS 4	15.73		0.05
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

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

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.231	5.18	1	92
Toluene-d ₈	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

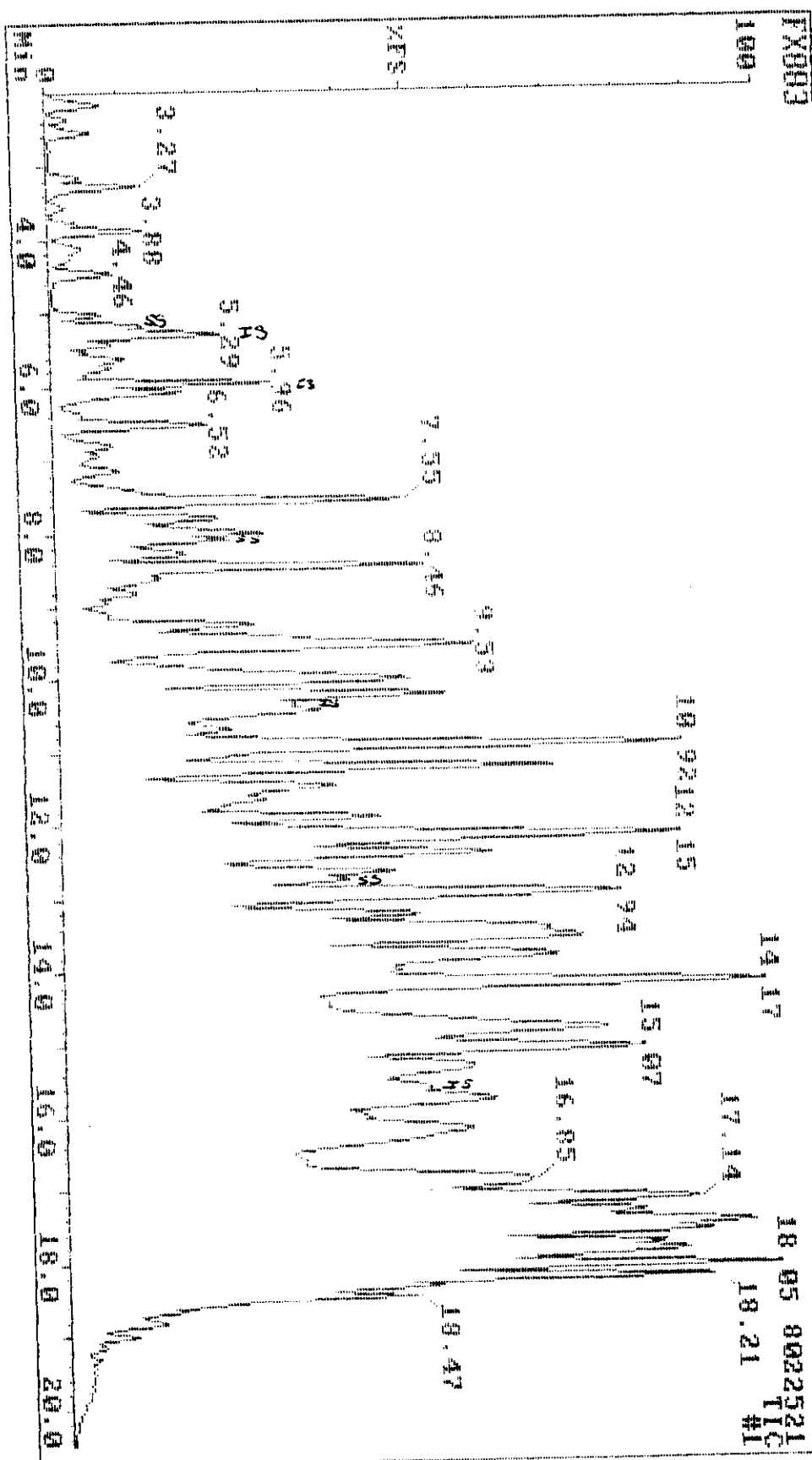
17-Aug-98 19:55

Triangle Laboratories, Inc.

(919) 544-5729

Instrument F

Sample: T-U-1-1-0 T 214-1-64 TLT46297



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

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	92	54	93	1	2785456	bb	5.301	163 Pentatluorobenzene
2	100	80	93	0	3023020	bv	6.071	114 1,4-Difluorobenzene
3	81	54	76	0	2369344	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	94 Bromomethane
12	0	0	0	0	0		0.000	64 Chloroethane
13	73	40	85	-2	62552	bb	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	2.800	43 Acetone
18	0	0	0	0	7991060	bb	0.000	41 Methyl methacrylate
19	70	41	86	-1	7991060	bb	0.000	44 Methyl methacrylate
20	99	12	59	-4	7991060	bb	0.000	53 Methyl methacrylate
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	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	1400114	a	4.801	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	34	15	47	5	718720	a	8.001	43 4-Methyl-2-pentanone
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	2213966	vv	7.251	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

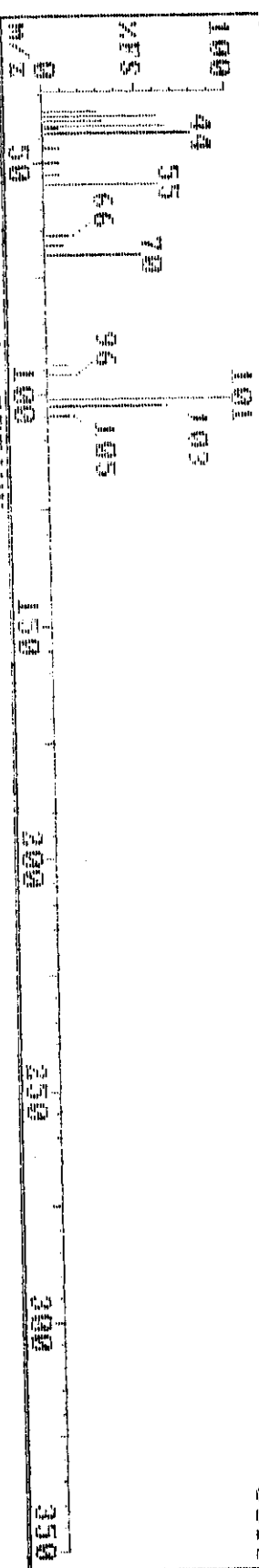
No.	MAT	FOR	REV	DEL	LA	Area	P	Flags	RT	QM	Name
51	0	0	0	0	0	0			0.000	131	1,1,1,2-tetrachloroethane
52	87	53	86	0	86.1070	bv			10.681	106	Ethylbenzene
53	97	66	89	0	5563136	vv			10.921	106	m-/p-Xylene
54	92	61	89	0	1619648	bv			11.631	106	o-Xylene
55	0	0	0	0	0				0.000	104	Styrene
56	0	0	0	0	0				0.000	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	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			14.802	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-Tolylene
70	0	0	0	0	0				0.000	146	1,4-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.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	2562544	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	12.631	95	4-Bromofluorobenzene
8	65	41	72	5	51285 vb		1.270	FP	39 1,3-Butadiene
9	0	0	0	0	0		0.000		106 Vinyl bromide
10	68	50	59	0	13264 A		3.520	FP	73 MTBE
11	100	95	99	0	1917848	bv	5.880	57	n-Hexane
12	54	40	57	7	251279 bv		5.100	FP	42 1,2-Epoxybutane
13	61	43	54	0	357412 A		5.721	FP	57 Iso-Octane
14	43	28	70	-13	2375135 vb		4.021	FP	35 Ethyl Acrylate

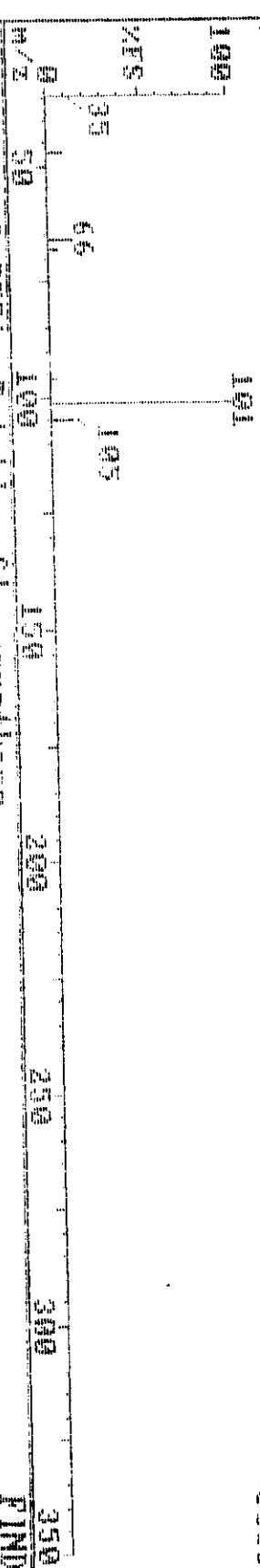
M 8/19/98

17-Aug-98 19:55 Triad Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-1-1 T 214-1-00 TUM6207 Instrument F

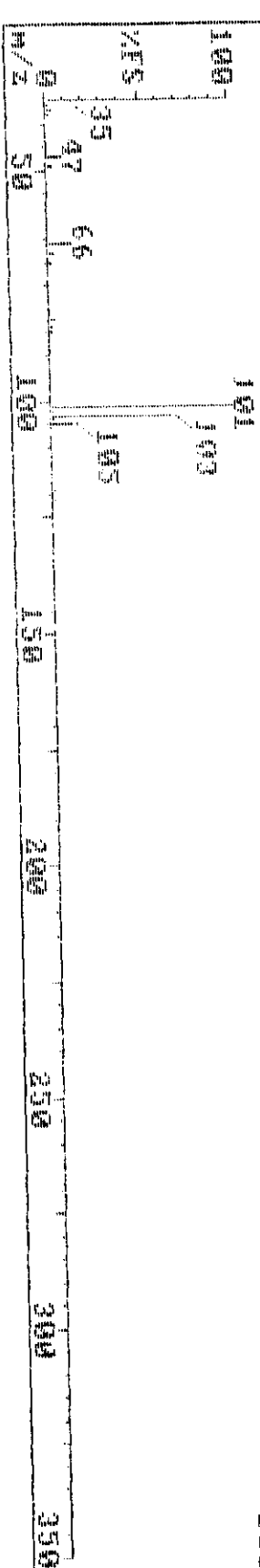
FX883 203 (2.030)



FX883 203 (2.031) Methyl



82600 13 (2.050) Trichlorofluoromethane



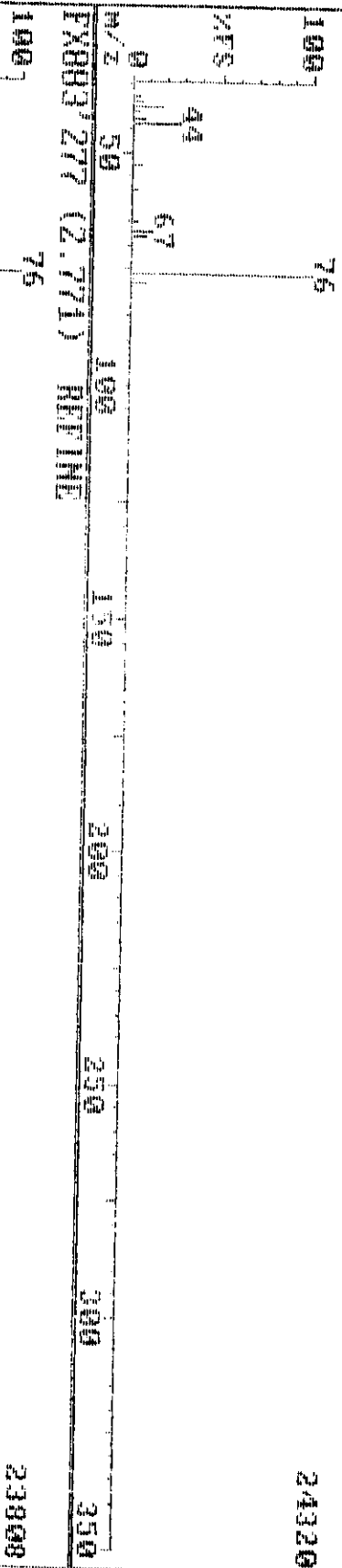
17-Aug-98 19:55

Triang Laboratories, Inc. (919) 544-5729

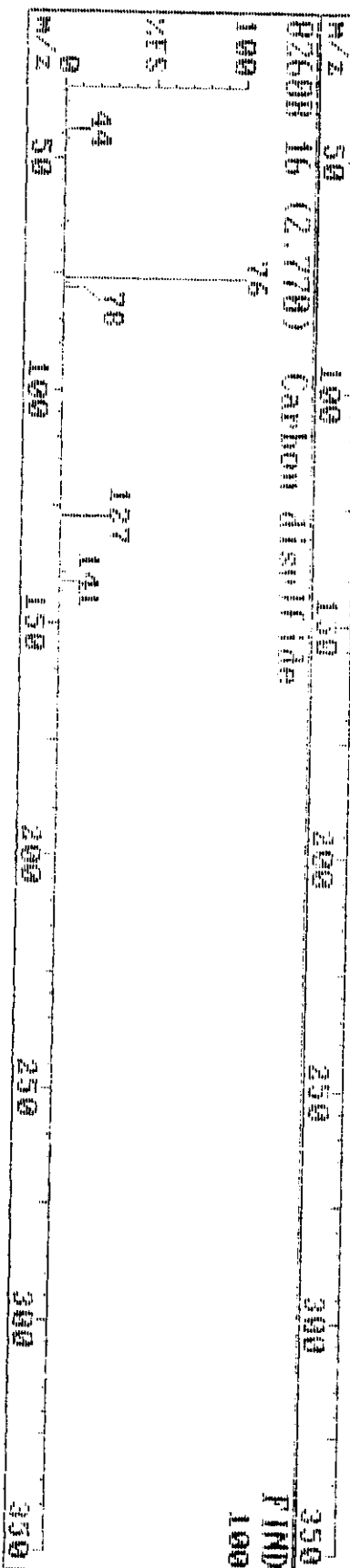
Sample: T-U-1-1-0 T 214-1-60 T1146297

Instrument P

FX883 277 (2.770)

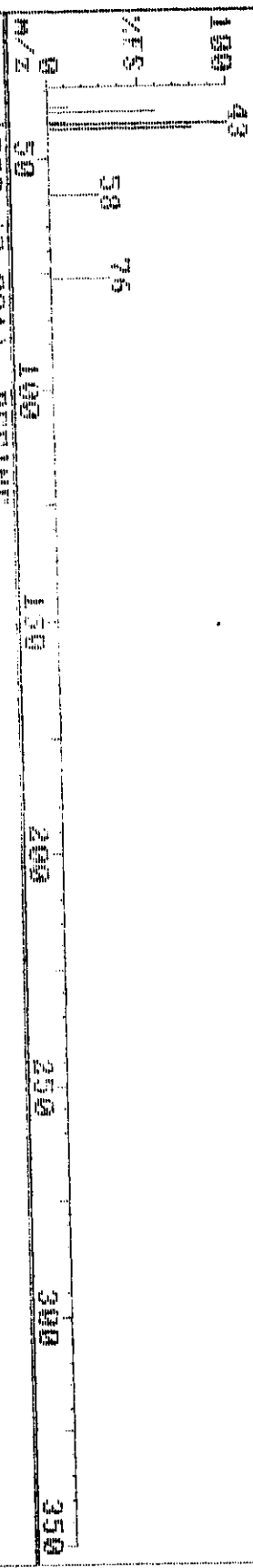


8260H 16 (2.770) Carbon disulfide

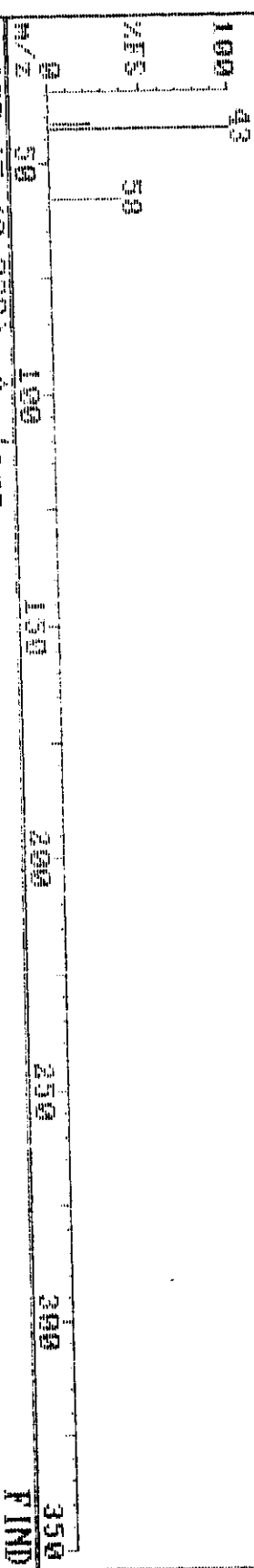


17-Aug-98 19:55 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-1-A 1 214-1-00 7/11/98/297 Instrument F

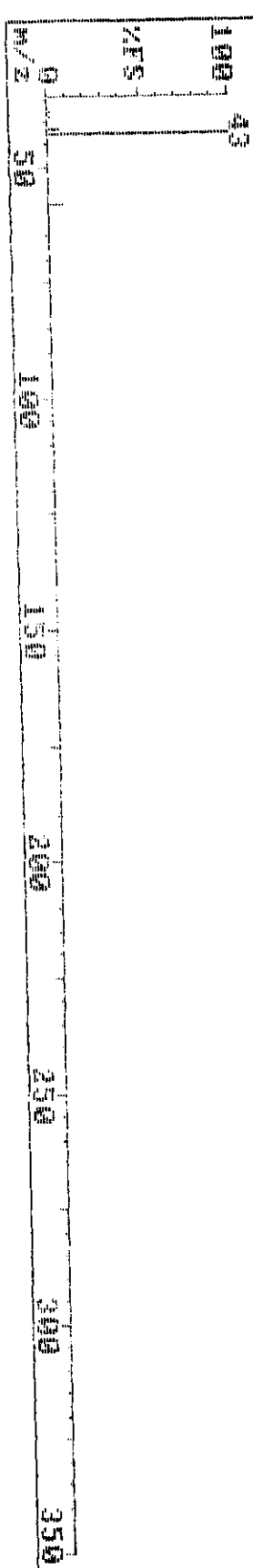
FX083 282 (2.820)



FX083 282 (2.821) HELIUM



02600 17 (2.820) Acetone



FIND 100

17-Aug-90 19:55

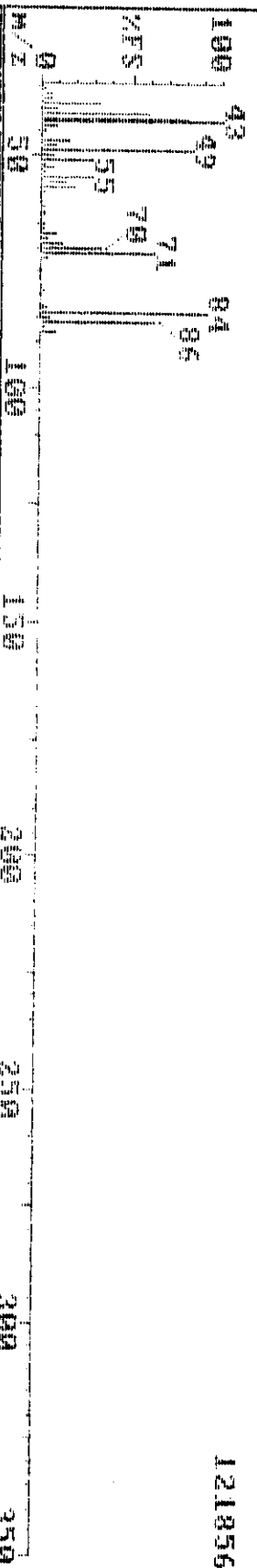
Triangulo Laboratories, Inc.

(919) 544-5729

Sample: T-U-1-1-A T 214-1-60 M1416297

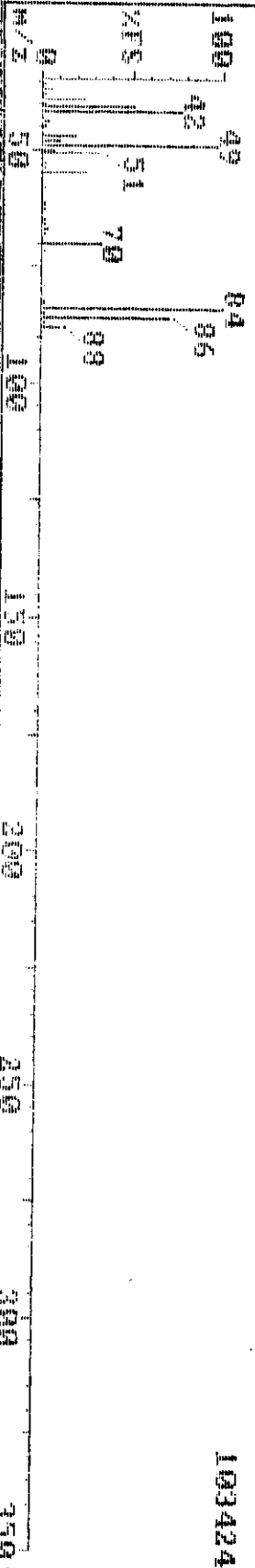
Instrument F

FX083 326 (3.260)



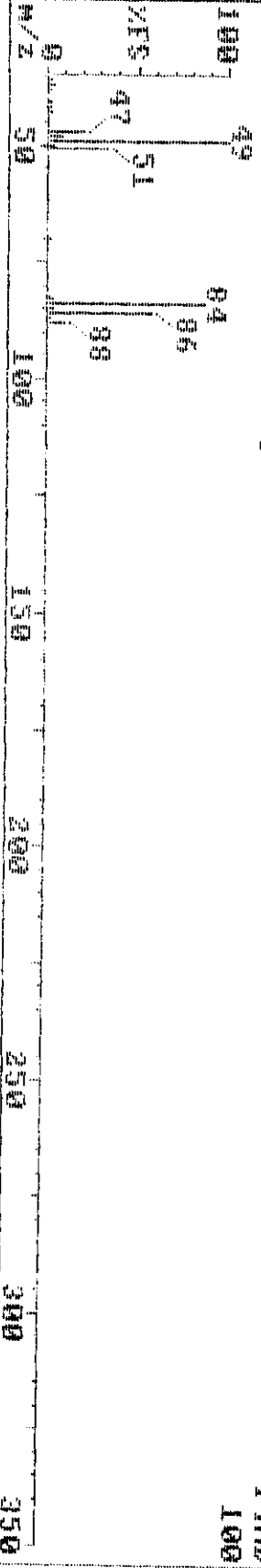
121856

FX083 326 (3.261) M1416297



103424

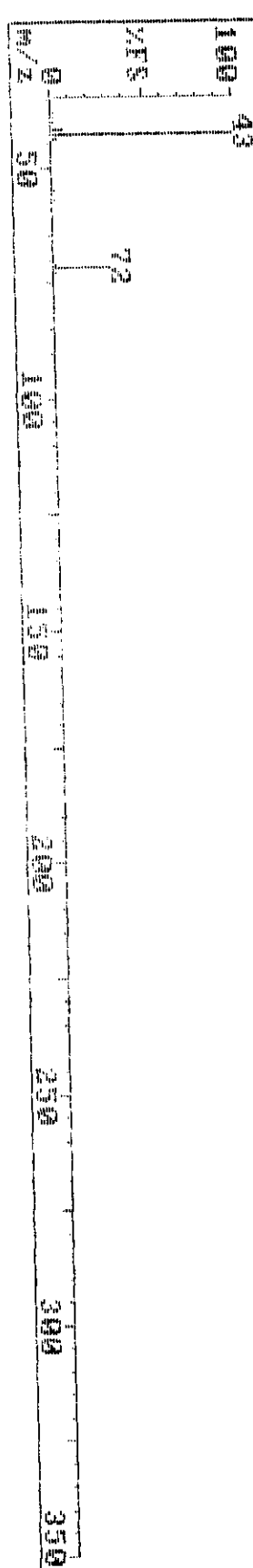
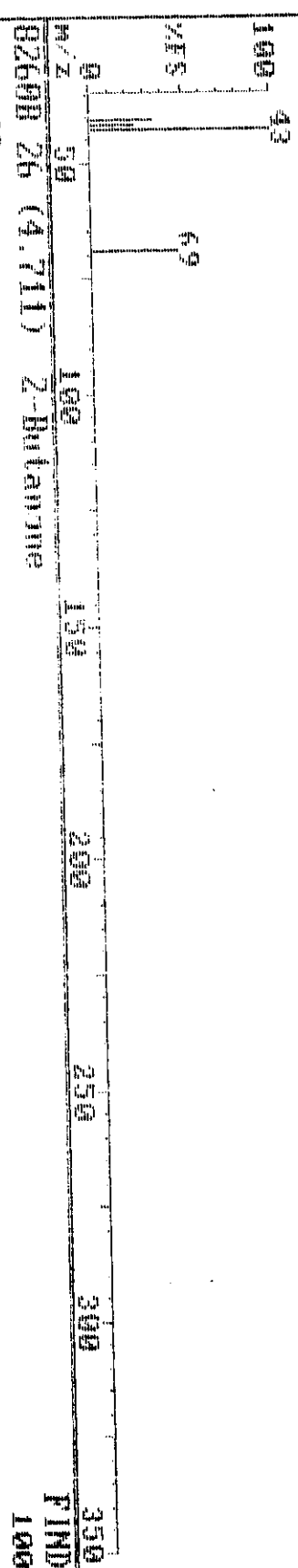
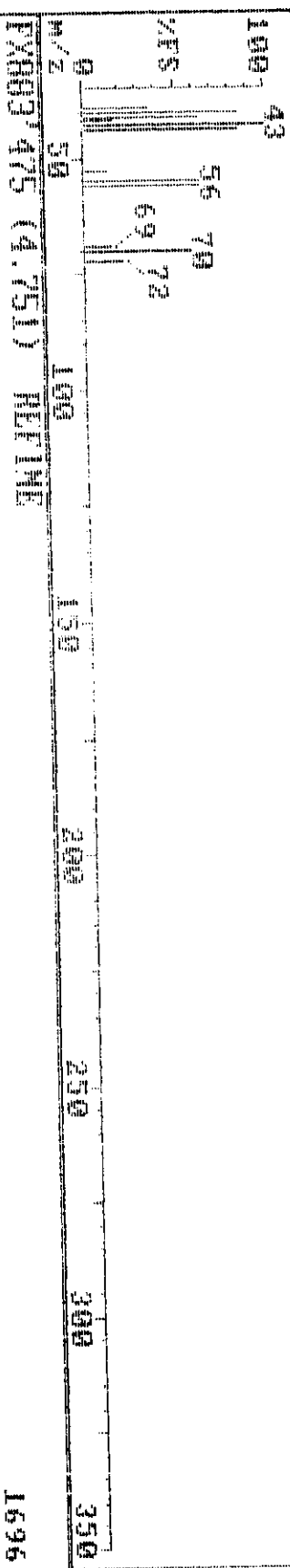
02600 19 (3.260) Methylene chloride



FIND

100

17-Aug-98 19:55 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-1-A T 214-1-00 T1146297 Instrument F
 FX083 475 (4.751) 4352



17-Aug-98 19:55

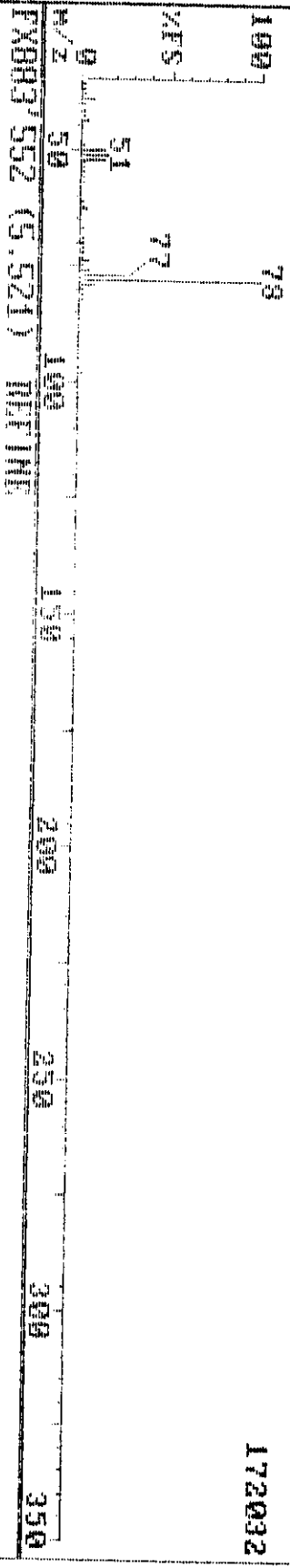
Trinity Laboratories, Inc.

(919) 544-5729

Sample: T-0-1-1-A 1 214-1-60 T1146797

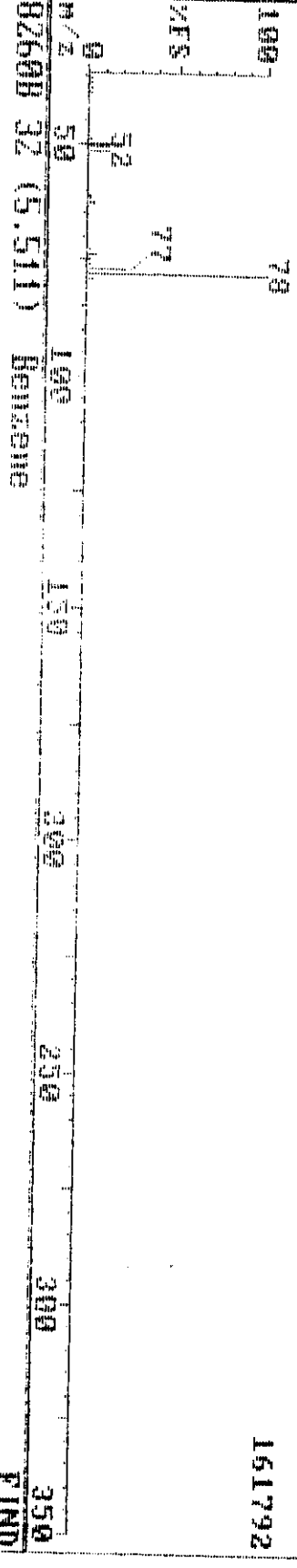
Instrument F

FY803 552 (5.521)



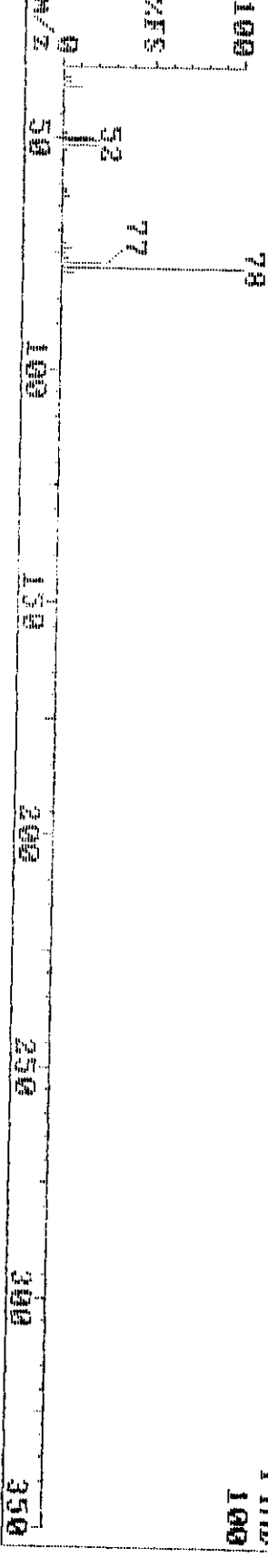
FY803 552 (5.521) T1146797

161792



8260B 32 (5.511) Benzene

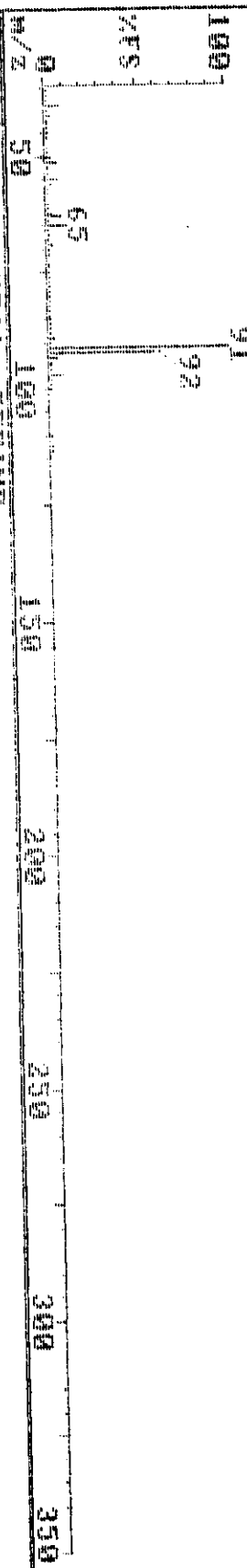
FIND



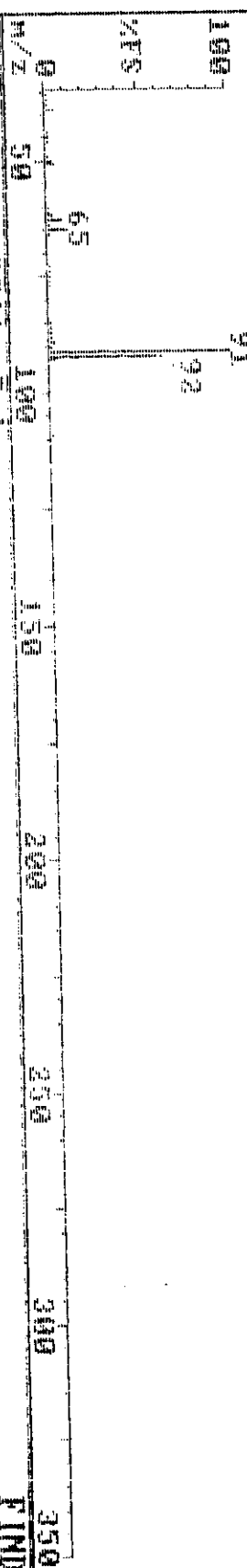
8260B 32 (5.511) Benzene

17-Aug-98 19:55 Triangulo Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-1-A T 214-1-60 TL144297 Instrument F

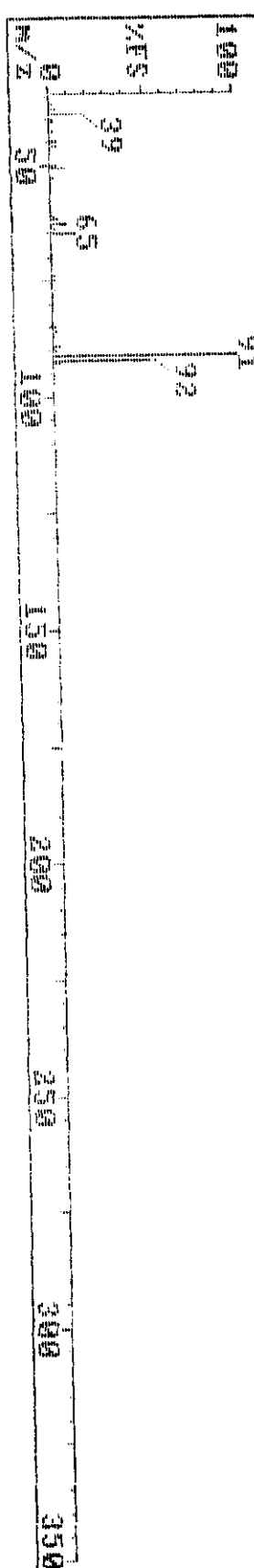
FX083 009 (0.091) 6922224



FX083 009 (0.091) REFINE 630784



02600 41 (0.101) Toluene FIND 100



17-May-90 19:55

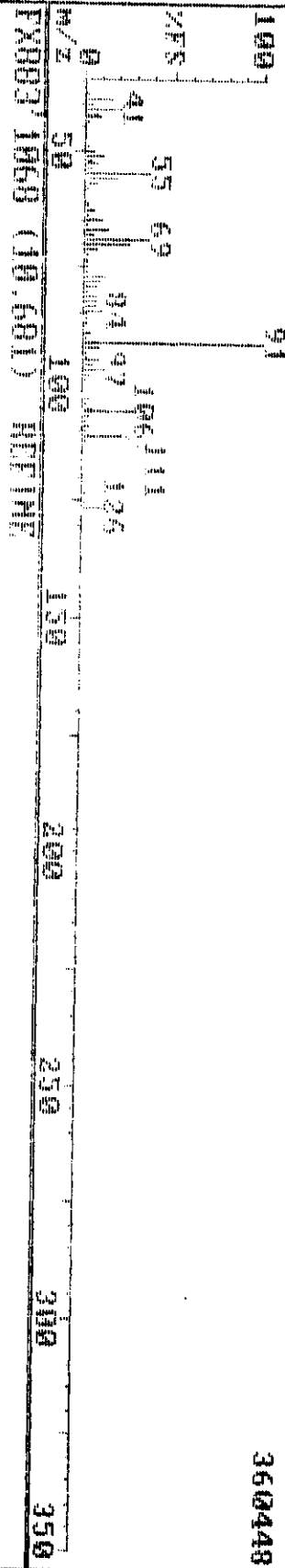
Triumfo Laboratories, Inc.

(919) 544-5729

Sample: T-V-1-1-A T 24-1-60 TLH46297

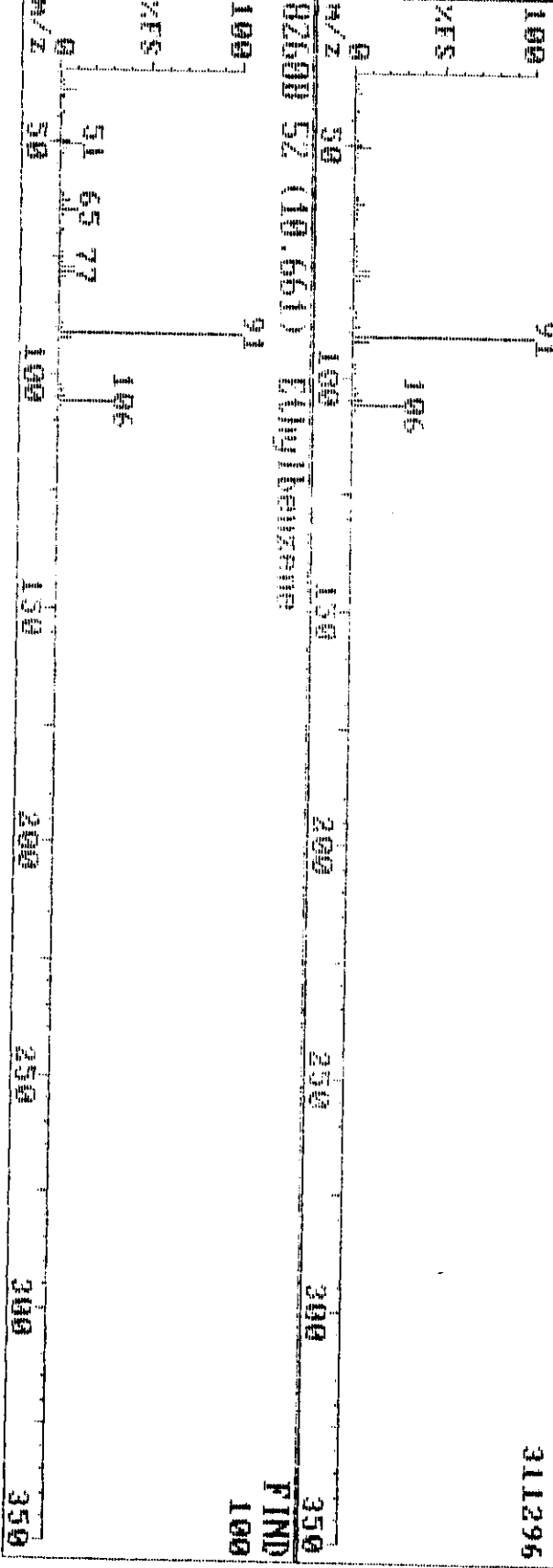
Instrument: F

FX803 1060 (10.601)



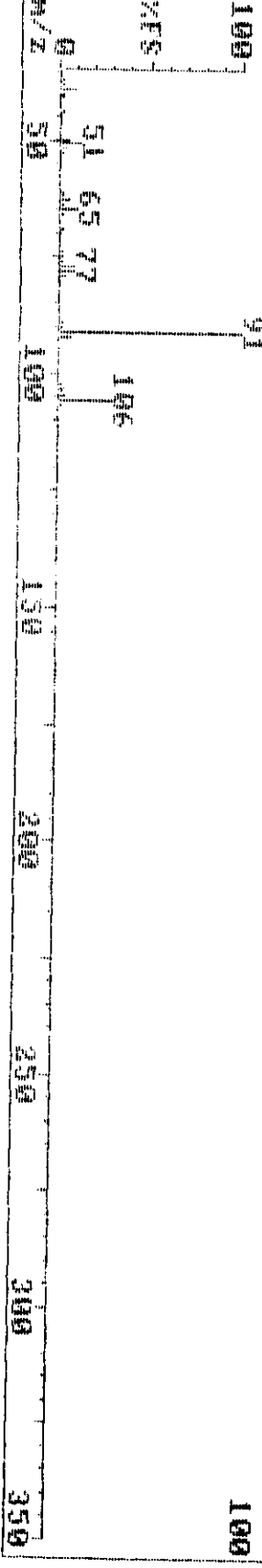
360448

FX803 1060 (10.601) REFINE



311296

82600 52 (10.601) Ethylbenzene



FIND

100

17-Aug-98 13:55

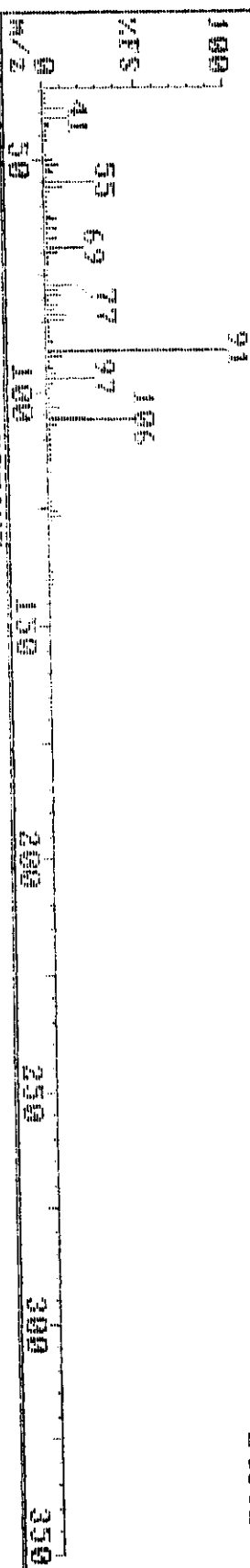
Triang Laboratories, Inc. (919) 544-5729

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

Instrument F

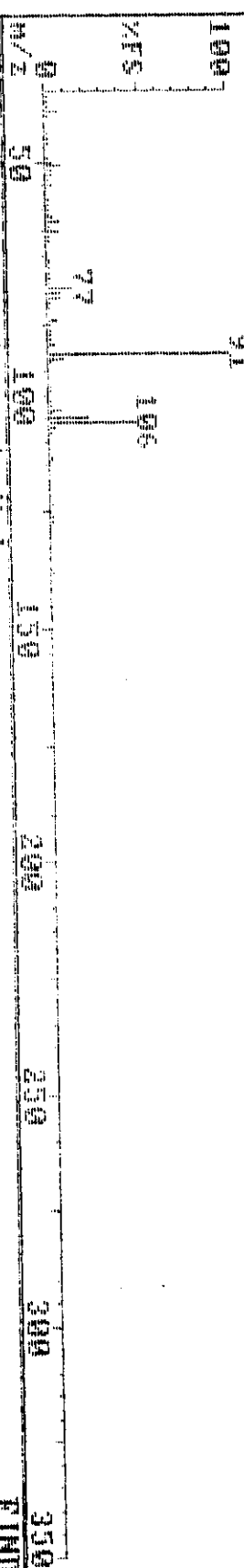
FX083 1092 (10.921)

1458176



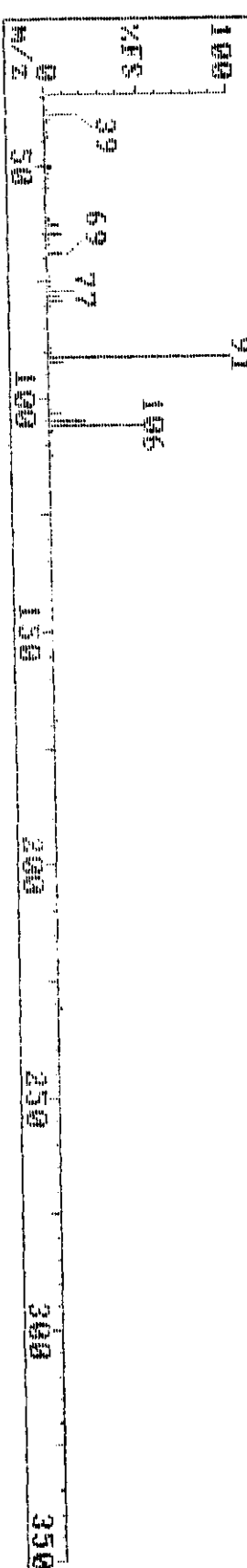
FX083 1092 (10.921) HEFTM

1277952



02600 53 (10.981) m-p-Xylene

FIND 100



17-Aug-98 19:55

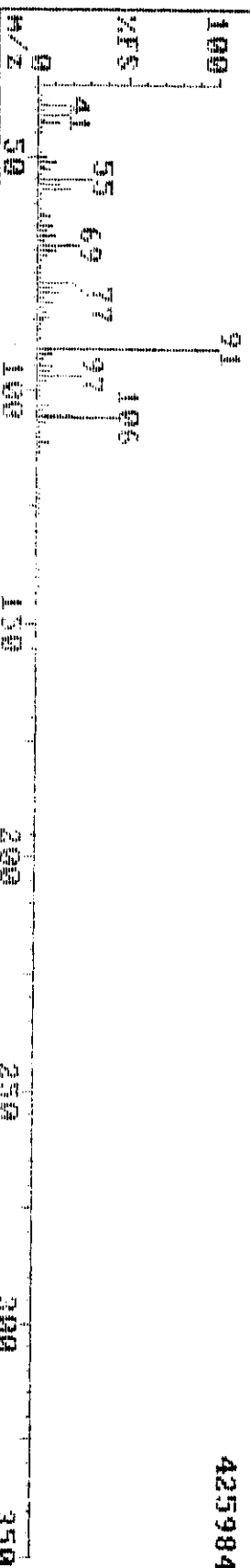
Triangulo Laboratories, Inc. (919) 544-5729

Sample: T-U-1-1-A T 214-1-6A UJH46297

Instrument F

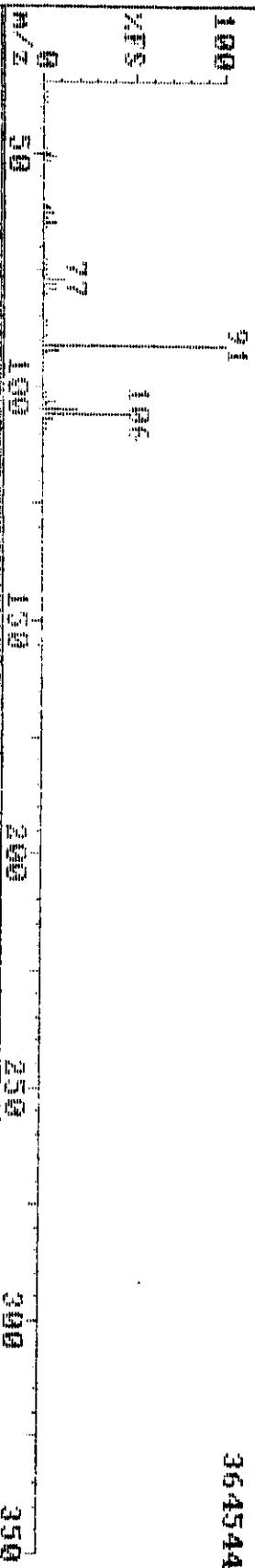
FX883 1163 (11.631)

425984



FX883 1163 (11.631) HEPTAN

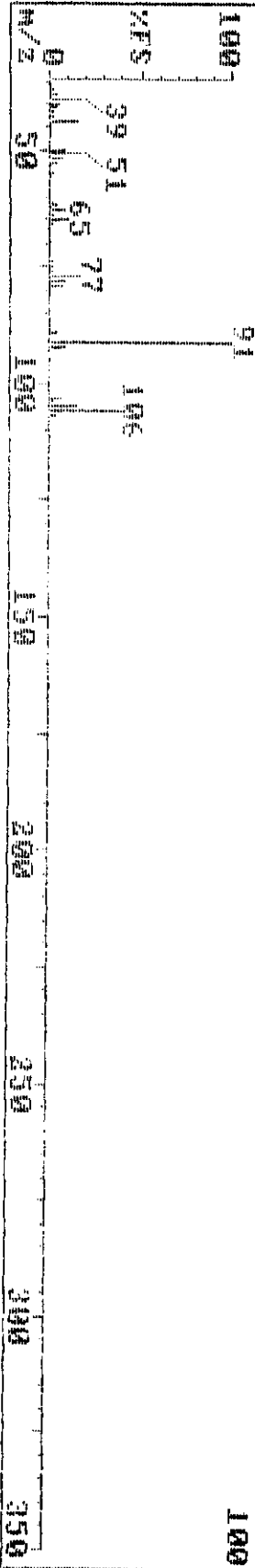
364544



B260H 54 (11.611) o-Xylene

FTND

100



17-Aug-90 19:55

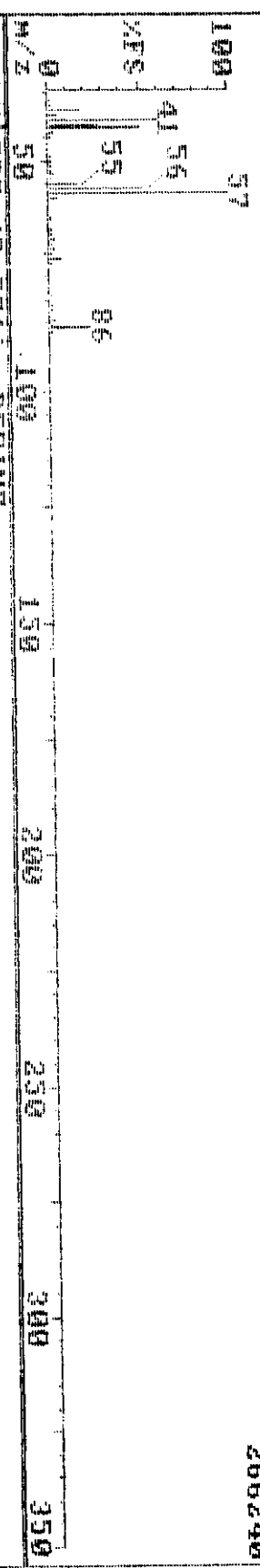
Triangie Laboratories, Inc. (919) 544-5729

Sample: T-0-1-1-A T 24-1-66 11146297

Instrument F

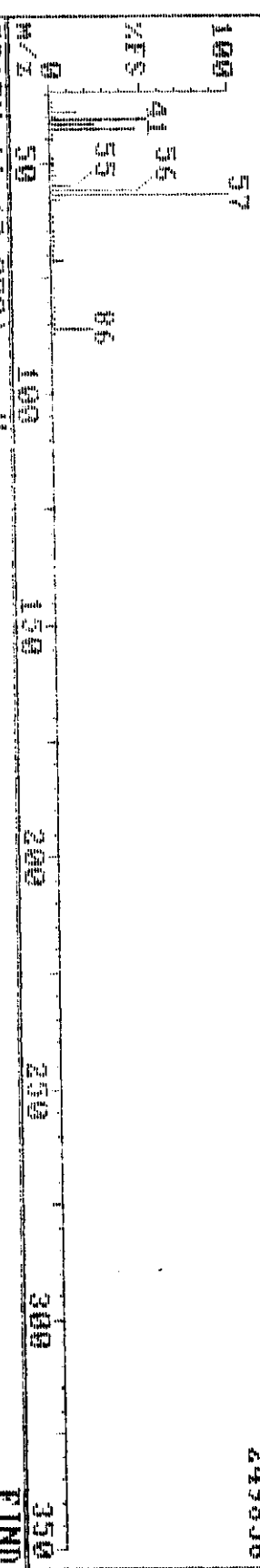
FX003 380 (3.800)

266240



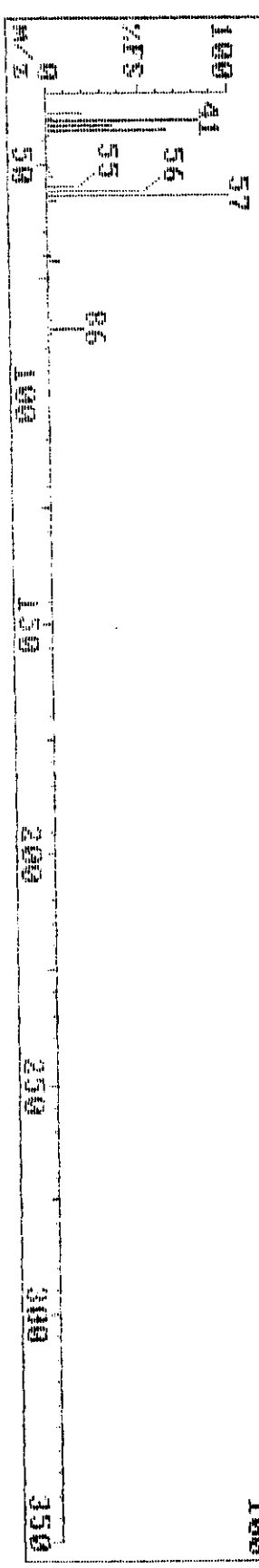
FX003 380 (3.801) 11146297

249856



026BX 11 (3.870) 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		0.001	0.05
Allyl chloride		U		0.004	0.05
Methylene chloride	0.153		3.27	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	6.07		
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: 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 ₃		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 ₄		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

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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

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.249	5.18	1	100
Toluene-d ₈	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.

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: 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	3.90		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

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 16:47

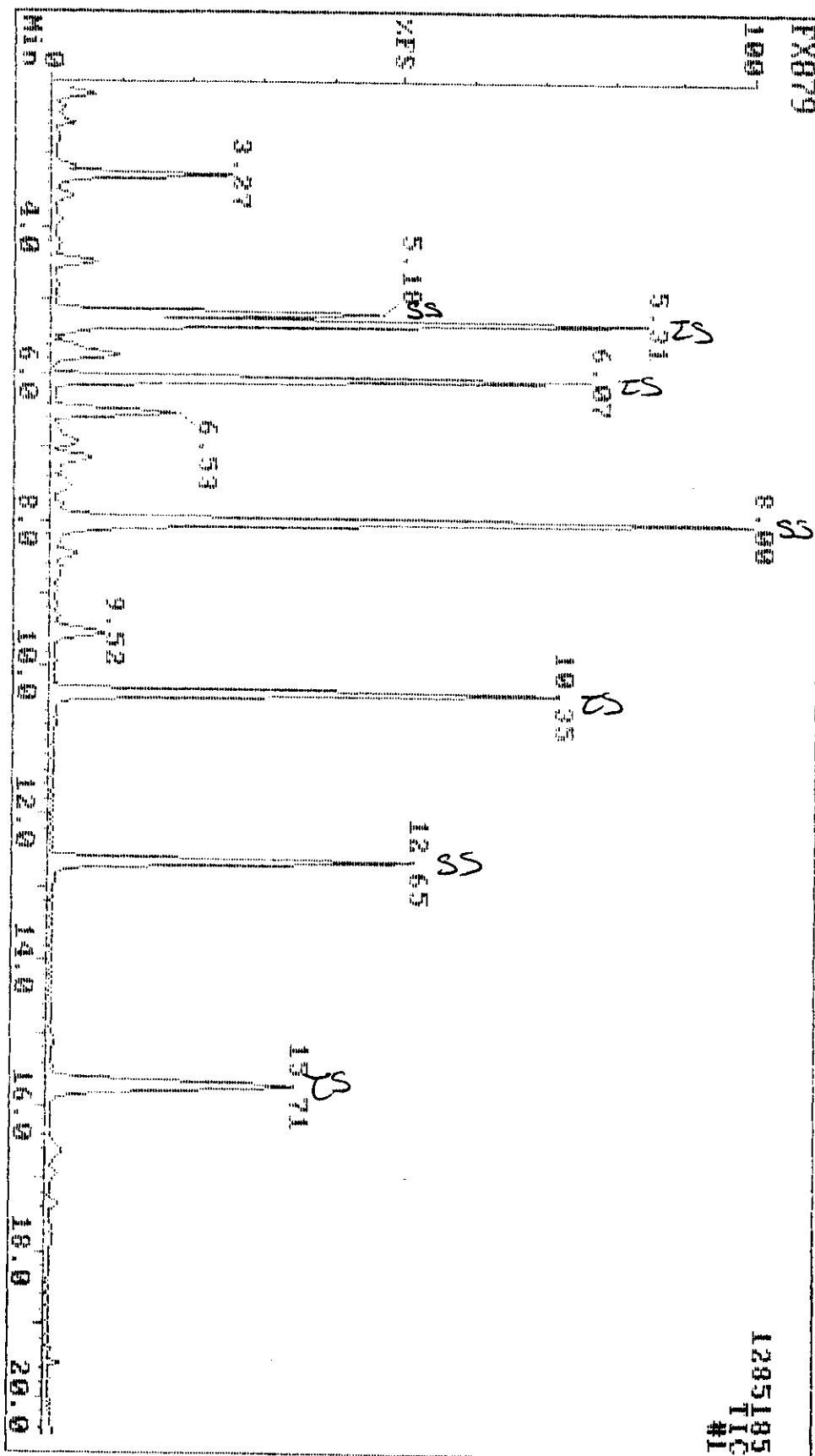
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-V-1-1-B IC 214-1-60 T1146297

Instrument F

FX879



1285185
TIC
#1

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

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	78	99	1	2574448	bb	5.301	163	Pentafluorobenzene
2	100	97	99	0	2726140	bv	6.071	114	1,4-Difluorobenzene
3	100	95	95	0	2355716	bv	10.351	117	Chlorobenzene-d5
4	100	76	100	0	860176	bv	15.712	152	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	85	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	75	Carbon tetrachloride
17	59	12	85	2	12400	A	2.326	FP	43 Acetone
18	0	0	0	0	0		0.000	41	Allyl chloride
19	100	76	89	0	572588	bv	3.270	54	Methylene chloride
20	7	2	2	-2	1594	A	3.578	FP	55 Acrylonitrile
21	0	0	0	0	0		0.000	96	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	77	2,2-Dichloropropane
25	0	0	0	0	0		0.000	96	cis-1,2-Dichloroethene
26	21	13	13	4	4452	A	4.731	FP	13 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	65	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	85	Bromodichloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	36	4	61	5	21340	bv	3.911	FP	43 4-Methyl-2-pentanone
41	100	74	92	0	158852	bb	3.091	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: *YM*
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	Bromoform
57	0	0	0	0	0		0.000	135	Cumene
58	0	0	0	0	0		0.000	33	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	1,3,4-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	26612	vv	1.370	FP	32 1,3-Bisbutene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	57	40	55	4	8612	a	5.650	FP	73 MTBE
11	69	57	59	2	17396	bb	7.900	57	n-Hexane
12	55	48	62	13	27100	a	1.170	FP	42 1,2-Epoxybutane
13	64	47	57	1	53902	a	2.691	FP	57 Iso-octane
14	44	28	69	-12	106764	bb	6.571	FP	55 Ethyl acrylate

WLC/19/98

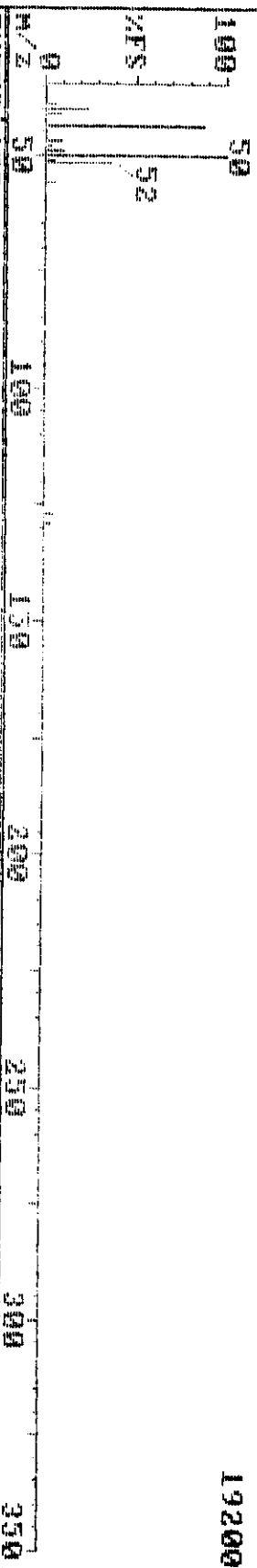
17-Aug-98 16:47

Triangle Laboratories, Inc. (919) 544-5729

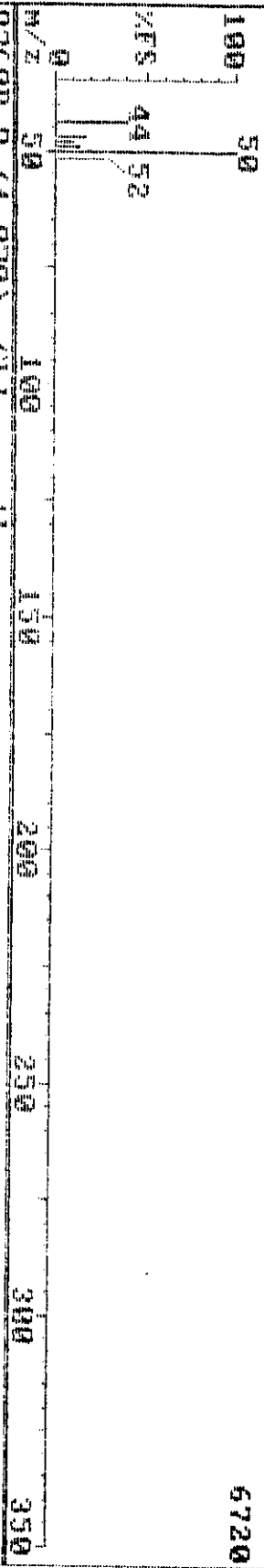
Sample: T-U-1-B TC 214-1-BB T11446297

Instrument F

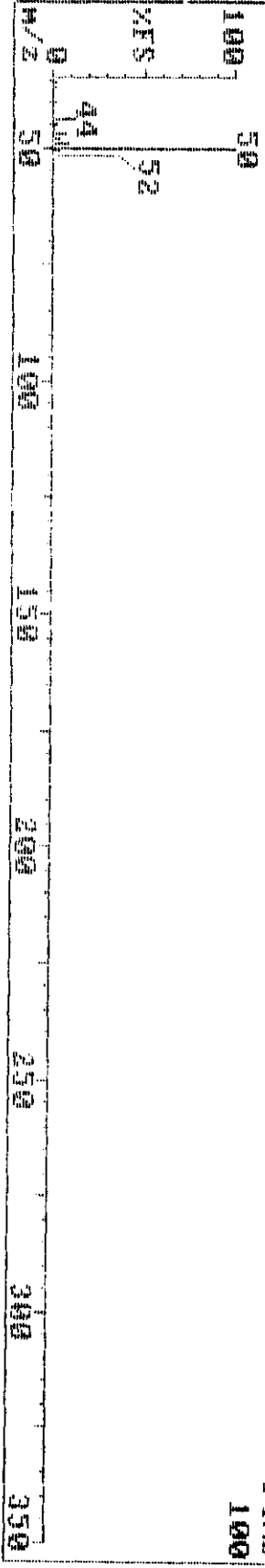
FX879 100 (1.000)



FX879 100 (1.001) HEPTANE

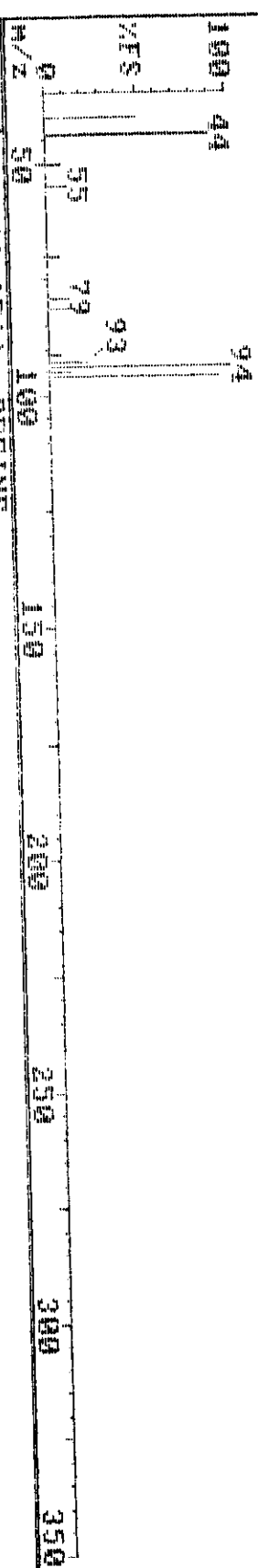


8260B 9 (1.070) Chloromethane

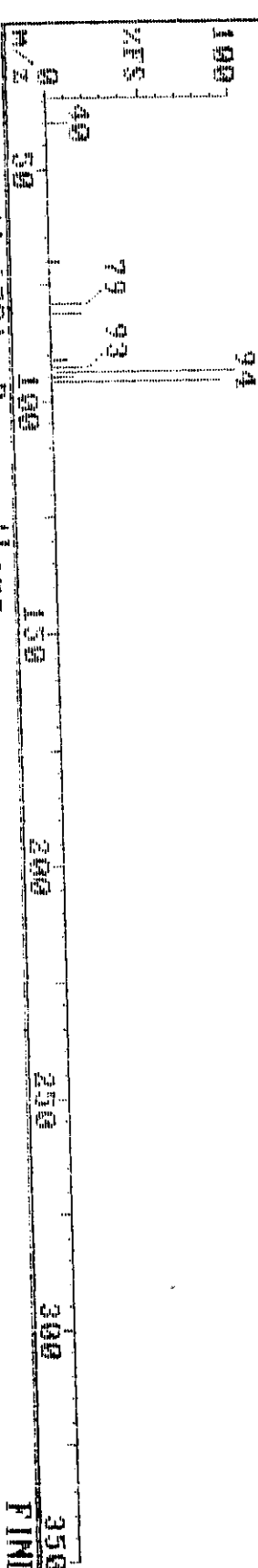


17-Aug-98 16:47 Triangle Laboratories, Inc. (319) 544-5729 Instrument F
 Sample: T-U-1-1-B IC 214-1-6B T11446297

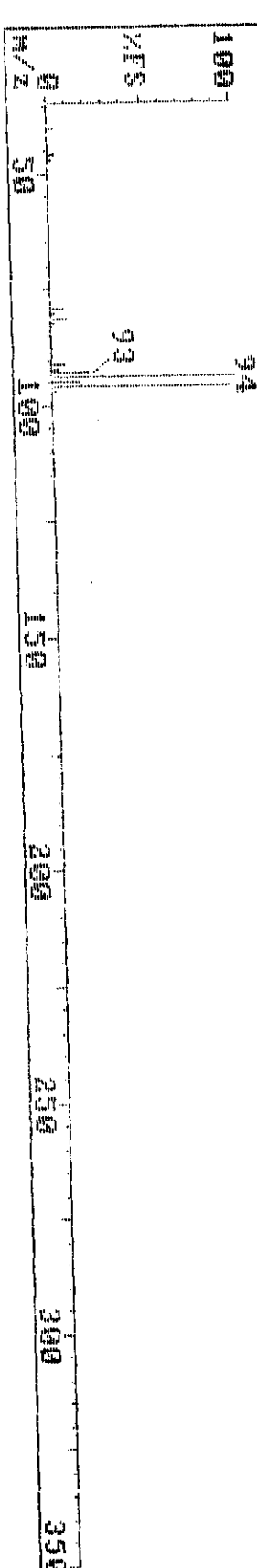
FXB79 165 (1.650) 9600



FXB79 165 (1.651) REFINE 7232



8260H 11 (1.620) Bromomethane FIND 100



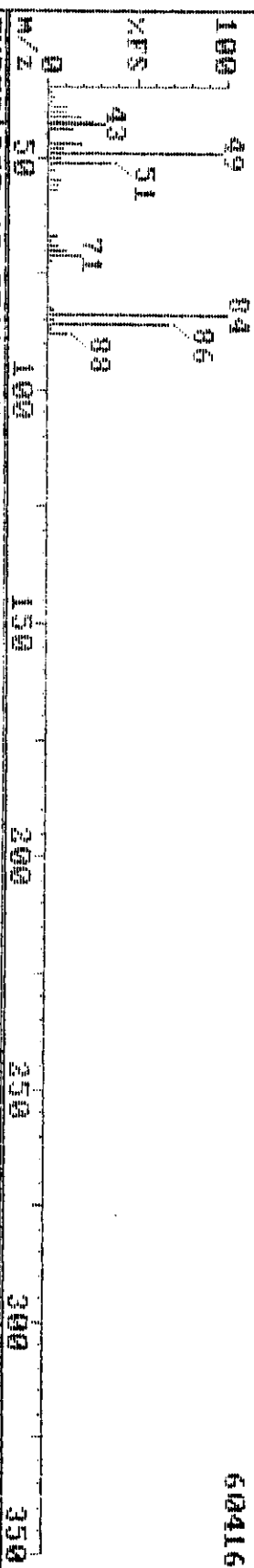
17-Aug-90 16:47

Triangle Laboratories, Inc. (919) 544-5729

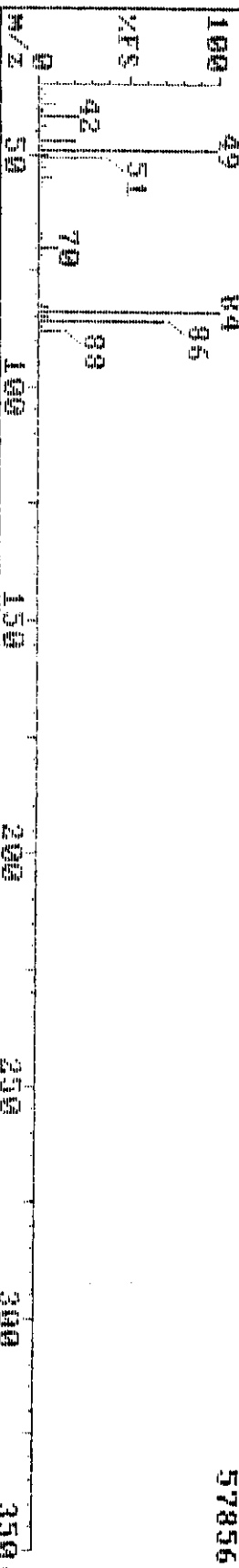
Sample: T-V-1-B TC 244-1-GD T11H46297

Instrument F

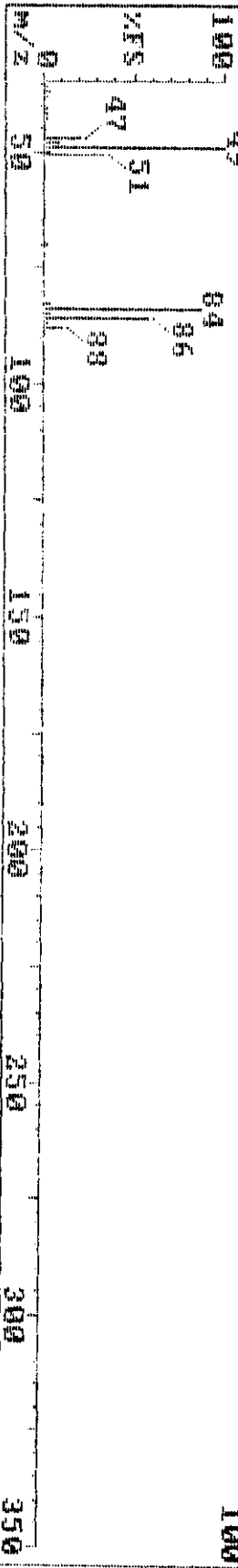
FXB79 327 (3.270)



FXB79 327 (3.271) REFINE



B2608 19 (3.260) Methylene chloride



FIND

100

17-Aug-98 16:47

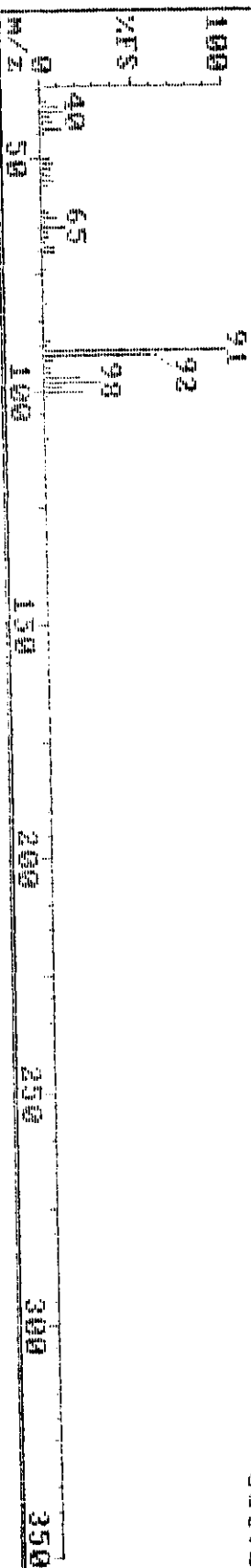
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-1-1-B TO 244-1-GH TLH46297

Instrument F

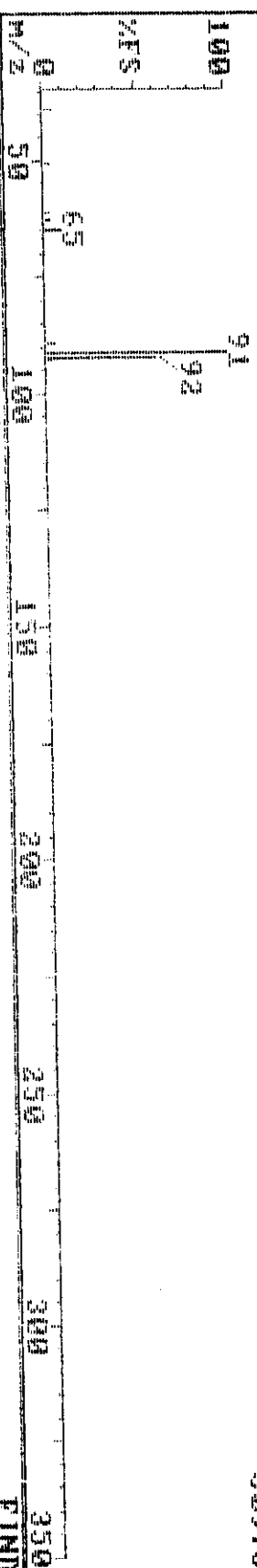
FX879 809 (8.091)

35072



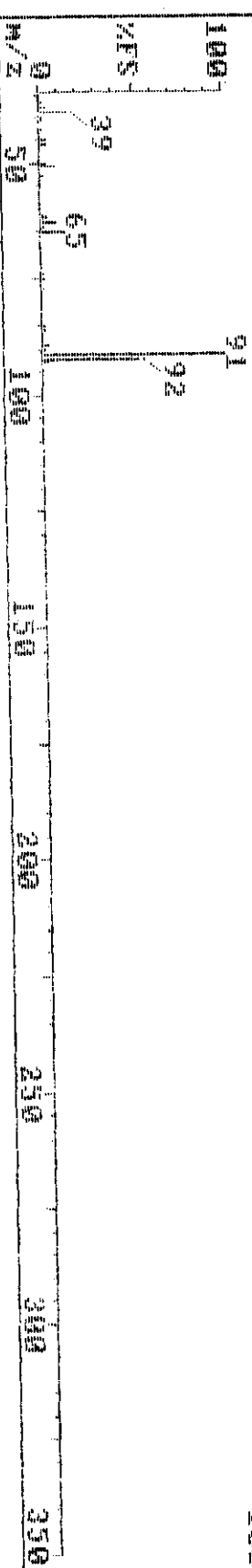
FX879 809 (8.091) HDLIME

30976



82608 41 (8.081) Toluene

FIND 100



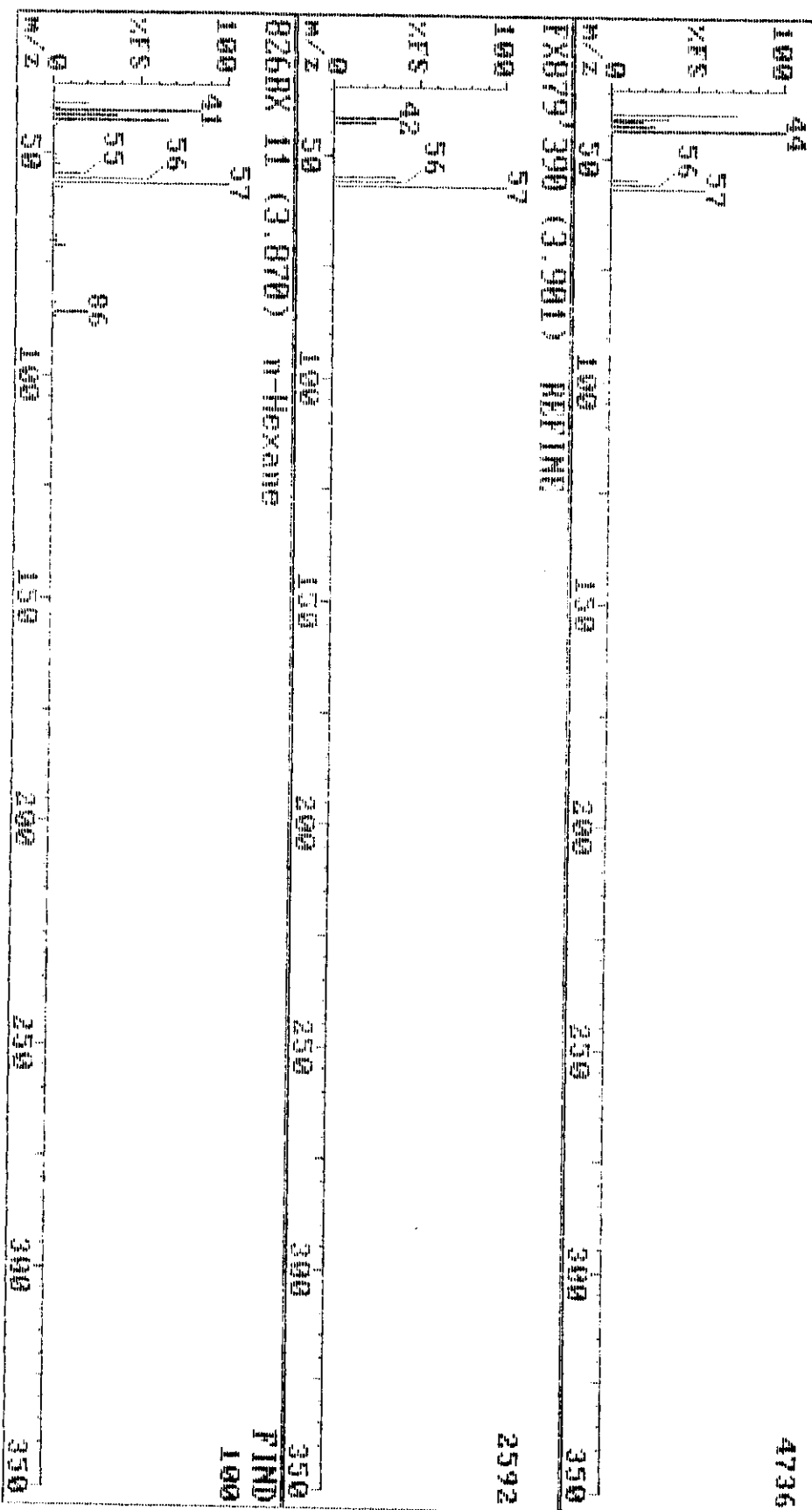
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Triangle Laboratories, Inc. (919) 544-5723

Sample: T-U-1-1-B TC 214-1-6B TL146237

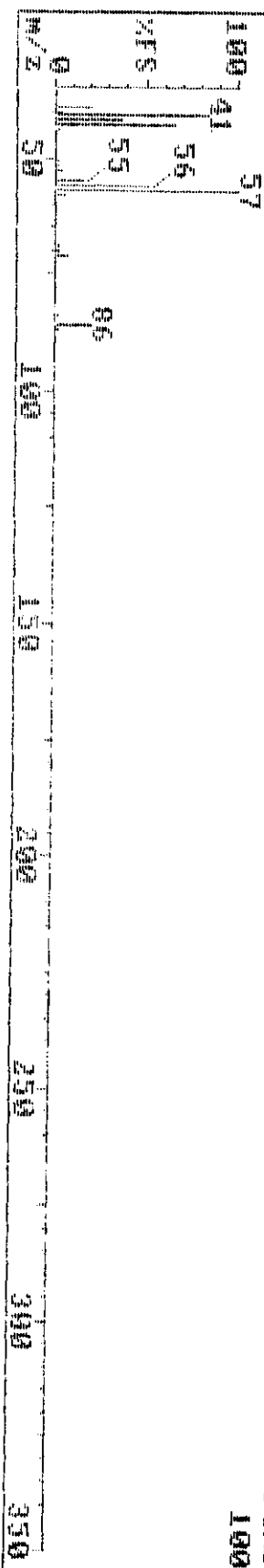
Instrument F

FX879 390 (3.900)



FX879 390 (3.901) REFINE

826RX 11 (3.870) n-Hexane



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

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	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

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

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 ₅		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 ₄		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.

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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 ₈	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.

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: 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

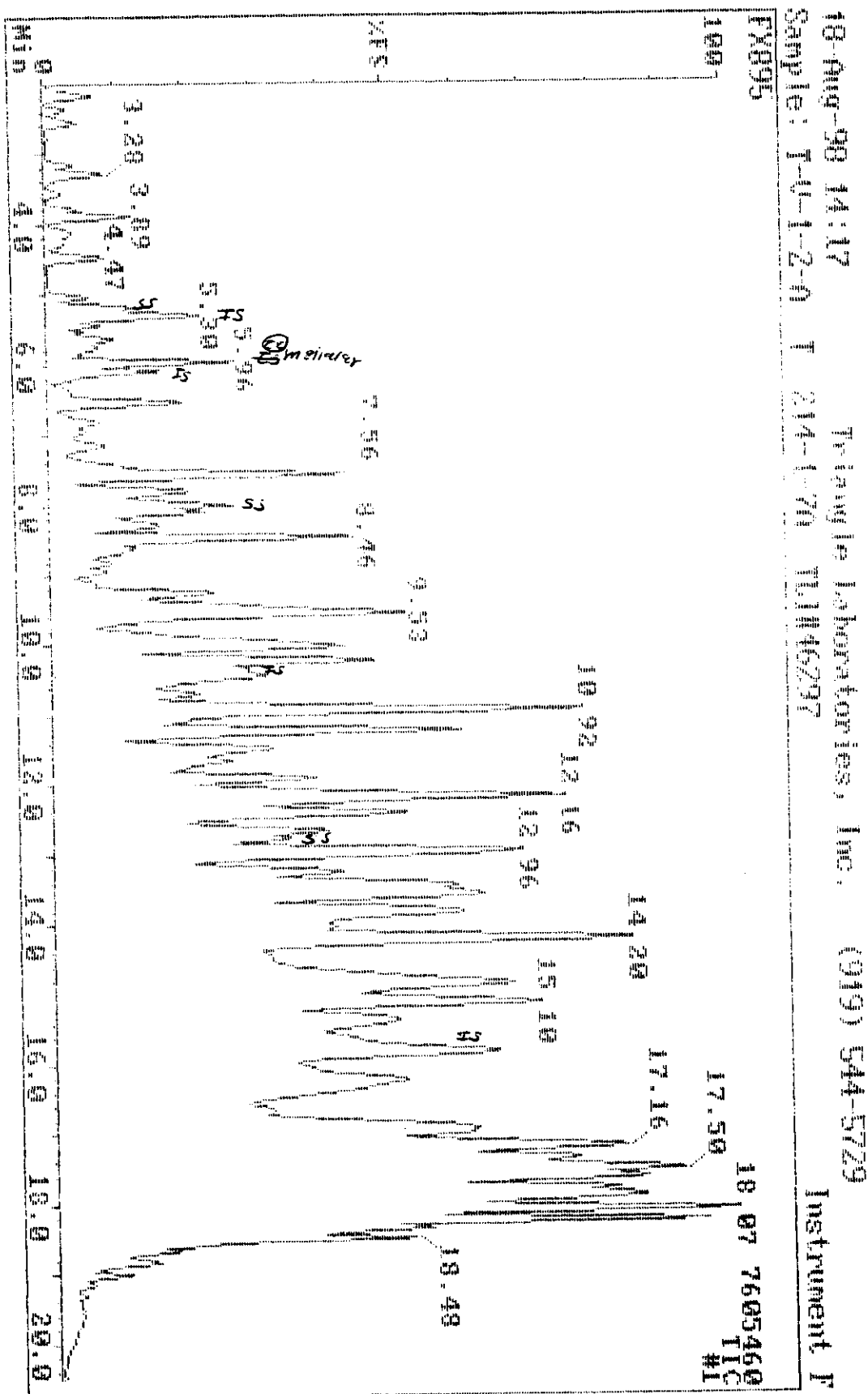
Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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Savar v3.7

Printed: 18:00 08/24/1998



Data Review: YR
 Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name	
1	93	56	94	1	2483712	bb	5.301	168	Pentafluorobenzene	
2	100	83	95	0	2639904	bv	6.071	114	1,4-Difluorobenzene	
3	83	57	79	1	2322196	bv	10.301	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	1525120	vv	12.661	95	4-Bromo fluorobenzene	
8	0	0	0	0	0		0.000	85	Trichlorodifluoromethane	
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	10590	A	1.510	94	Bromomethane	
12	0	0	0	0	0		0.000	34	Chloroethane	
13	0	0	0	0	0		0.000	101	Trichlorofluoromethane	
14	0	0	0	0	0		0.000	21	1,1-Dichloroethane	
15	0	0	0	0	0		0.000	62	Chloromethane	
16	67	40	76	1	112008	bb	2.700	76	Carbon disulfide	
17	92	63	92	0	94100	vv	2.820	40	Acetone	
18	0	0	0	0	0		0.000	81	Allyl chloride	
19	0	0	0	0	0		0.000	34	Methylethylchloride	
20	30	1	29	-45	184336	FP	0.000	53	Acrylonitrile	
21	0	0	0	0	0		0.000	26	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-Dichloropropene	
25	0	3	0	0	0		0.000	96	cis-1,2-Dichloroethene	
26	79	2	70	1	36603	bv	4.335	FP	43	2-Butanone
27	0	0	0	0	0		0.000	81	Chloroform	
28	0	0	0	0	0		0.000	129	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	45	56	-11	951701	A	6.381	FP	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	32	68	-19	1001300	vv	7.772	FP	43	4-Methyl-2-pentanone
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	43	77	-1	236300	bb	8.231	164	Tetrachloroethene	
46	0	0	0	0	0		0.000	76	1,3-Dichloropropane	
47	42	24	64	-10	1208035	vv	2.241	FP	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: *MM*
Date: 8/19/98

No.	MAF	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,1,2-Tetrachloroethane
52	35	54	86	-1	726255	bv	10.631	106	Ethylbenzene
53	36	67	90	-1	4729632	wv	10.921	106	m-/p-Xylene
54	92	67	89	0	1569024	bv	11.641	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	175	Bromobenzene
57	0	0	0	0	0		0.000	105	Cumene
58	0	0	0	0	0		0.000	33	1,1,1,1,2-Tetrachloroethane
59	0	0	0	0	0		0.000	156	Bromobenzene
60	0	0	0	0	0		0.000	75	1,2,4-Trichloropropene
61	0	0	0	0	0		0.000	120	m-Propylbenzene
62	0	0	0	0	0		0.000	75	trans-1,2-Dichloro-2-butene
63	0	0	0	0	0		0.000	116	2-Chlorotoluene
64	0	0	0	0	0		0.000	106	4-Chlorotoluene
65	38	43	92	-25	3068411	wv	13.601	105	1,3,5-Trimethylbenzene
66	0	0	0	0	0		0.000	107	tert-Butylbenzene
67	37	52	94	-2	9117632	bv	14.035	105	1,2,4-Trimethylbenzene
68	39	10	56	-2	240355	av	14.775	105	o-Propylbenzene
69	0	0	0	0	0		0.000	112	p-Dimethylbenzene
70	0	0	0	0	0		0.000	132	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	132	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	131	Bromobenzene
73	0	0	0	0	0		0.000	131	m-Propylbenzene
74	0	0	0	0	0		0.000	136	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	0	0	0	0	0		0.000	275	Hexachlorocyclopentadiene
78	0	0	0	0	0		0.000	138	Heptachlorene
79	0	0	0	0	0		0.000	130	1,2,3-Trichlorobenzene

YR 8/19/98

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	209250	bb	1.140	FP	39 1,3-Butadiene
9	0	0	0	0	0		0.000	108	Vinyl bromide
10	71	55	63	1	209270	bb	3.688	FP	73 MTBE
11	100	95	99	1	1696232	bb	7.890	57	n-Hexane
12	59	45	64	3	217425	bv	4.471	FP	42 1,2-Epoxybutane
13	62	45	57	2	253480	bb	5.791	FP	57 Isooctane
14	43	28	70	-13	1875922	vb	6.521	FP	55 Ethyl acrylate

VR 8/19/98

10 Aug-90 14:17

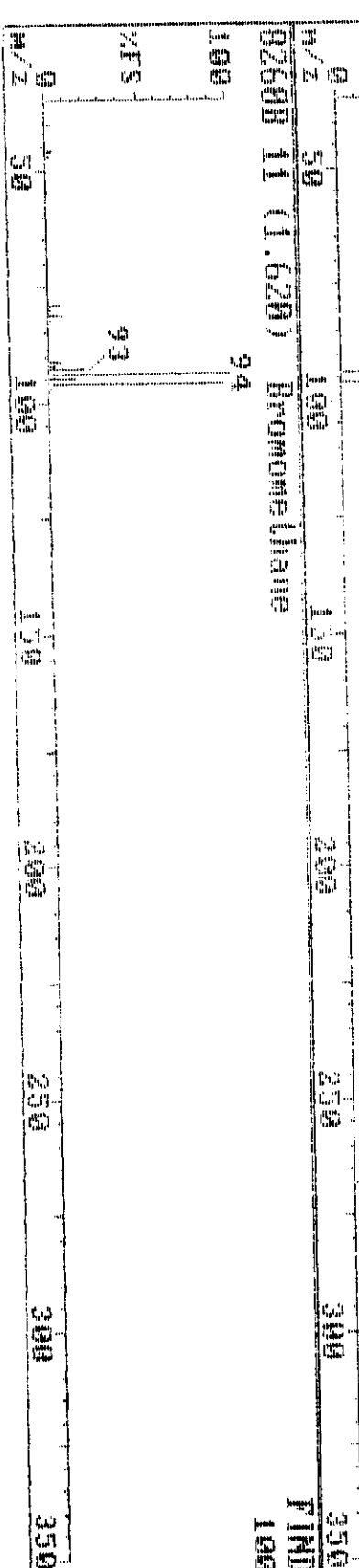
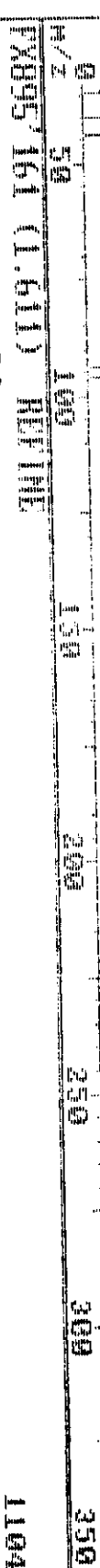
Triangle Laboratories, Inc. (919) 544-5729

Instrument F

Sample: T-U-1-2-A T 244-1-7A T1H46297

FX895 161 (1.610)

3440



10-Aug-98 14:17

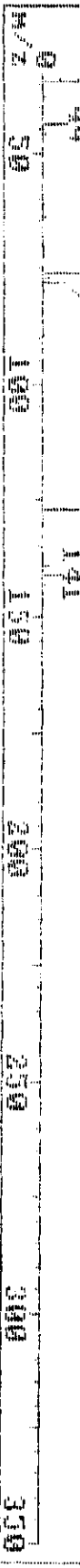
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-V-1-2-A I 214-1-76 TLH46297

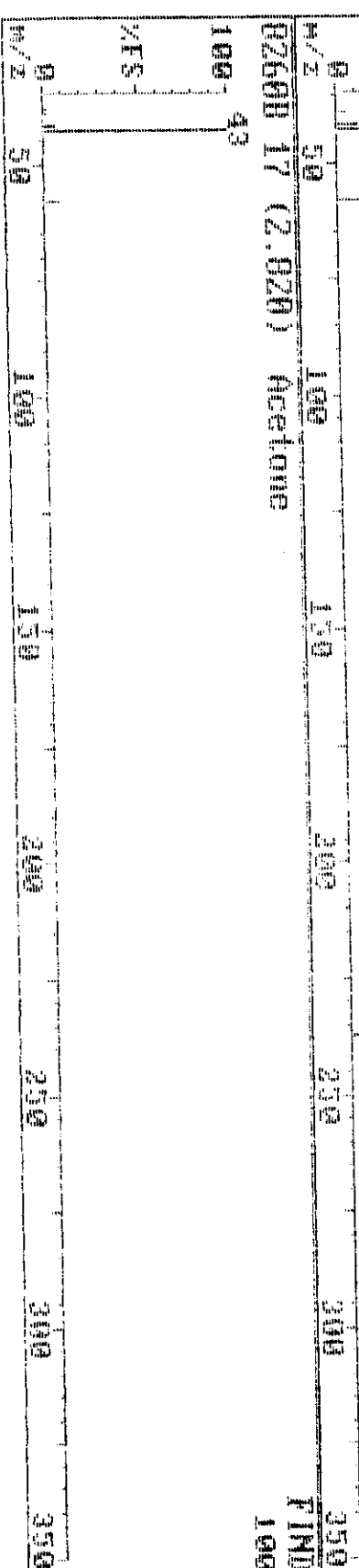
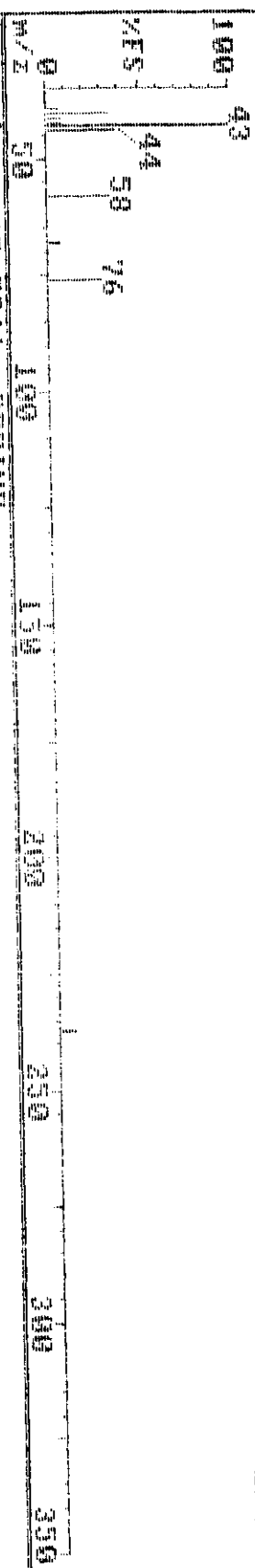
Instrument F

FX895 278 (2.780)



10-Aug-98 14:17 Triow/Le Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-Z-A T 214-1-70 T1140297 Instrument F

FXB95 282 (2.820) 11264



8-Aug-98 14:17

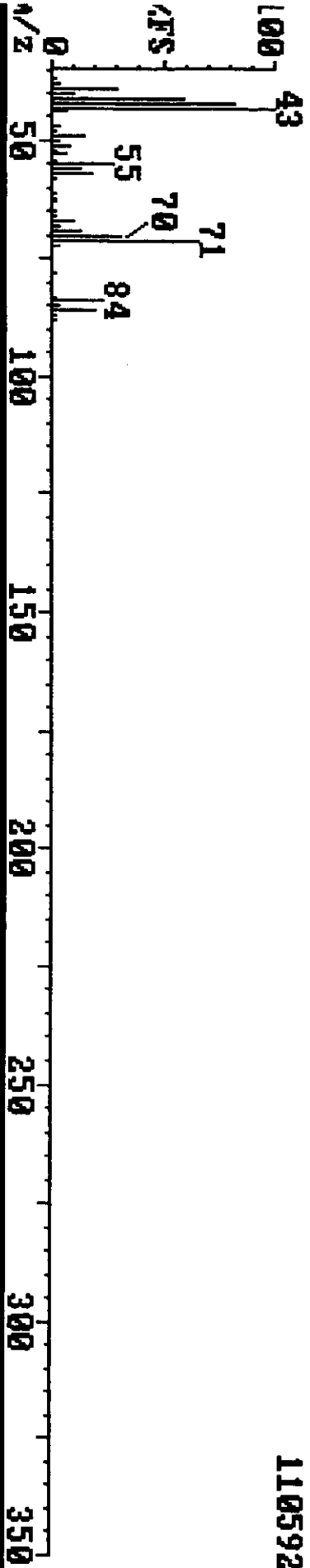
Triangle Laboratories, Inc.

(919) 544-5729

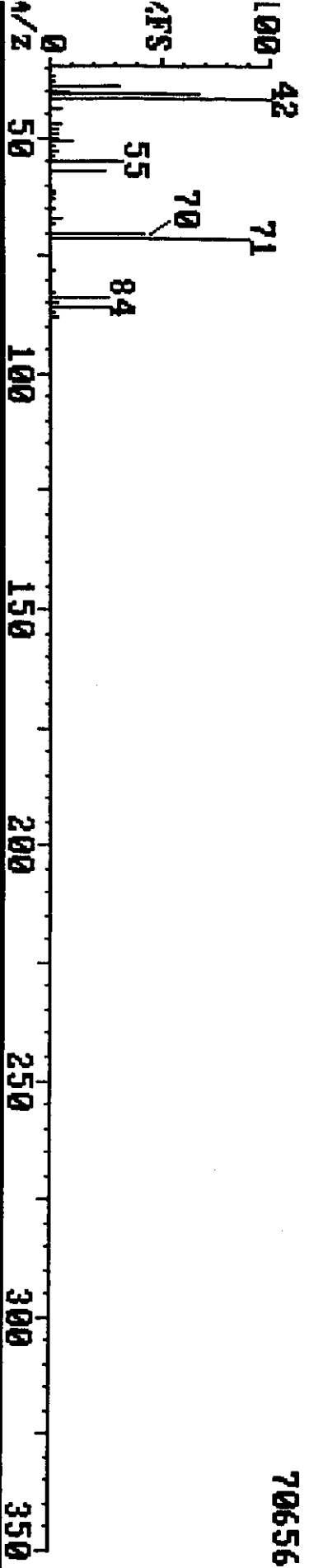
Sample: T-U-1-2-A T 214-1-7A TL1#46297

Instrument F

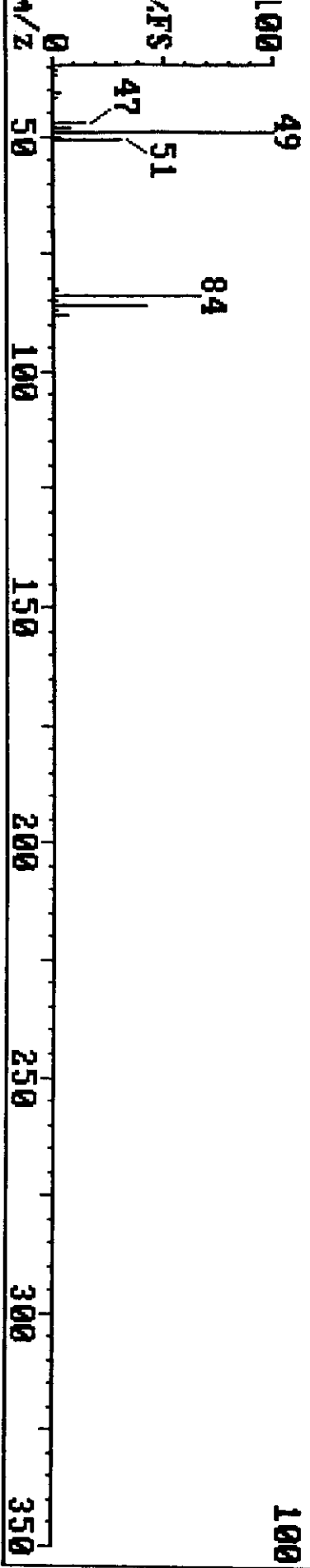
FX895 327 (3.270)



FX895 327 (3.271) REFINE



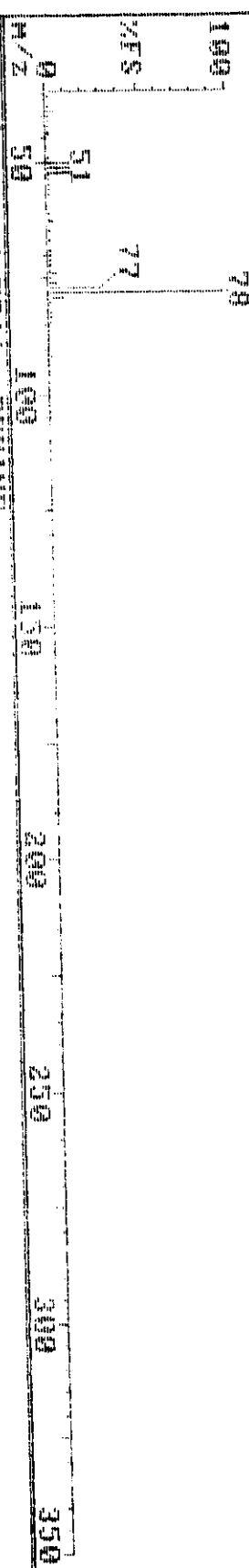
MASTER 22 (3.590) Methylene chloride



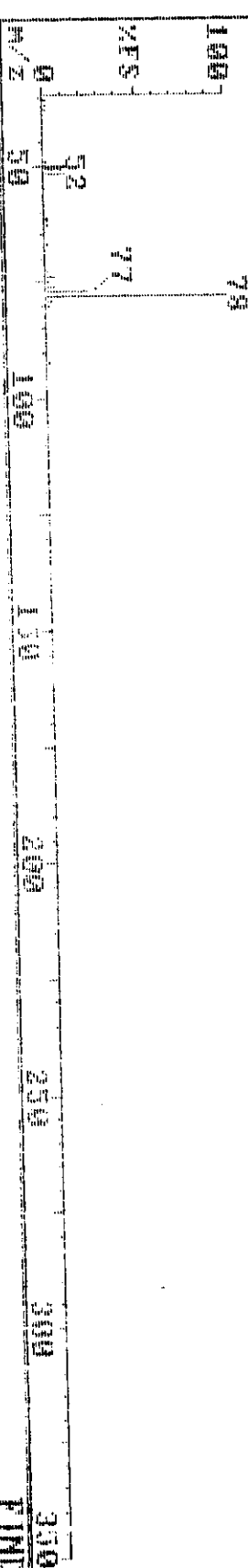
FIND

18-Aug-98 14:17 Triad Laboratories, Inc. (919) 544-5729
 Sample: 1-U-1-2-A 1 24-1-70 T1146297 Instrument F

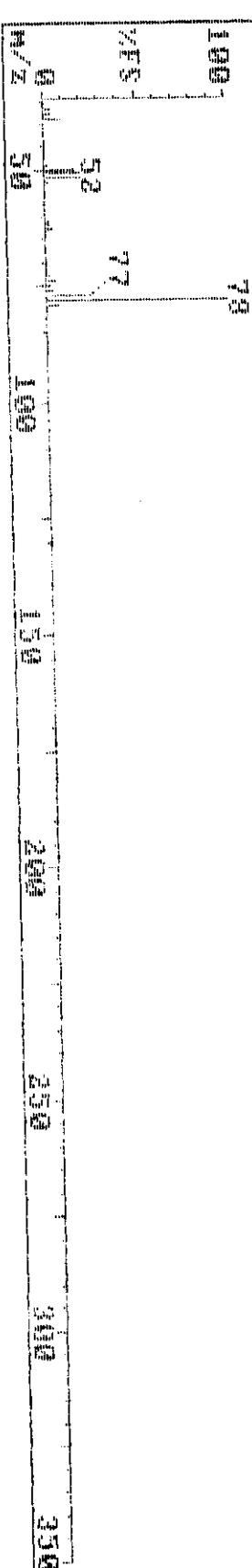
FX895 552 (5.521) 184320



FX895 552 (5.521) MFLM 172032



02608 32 (5.511) Benzene F1MD 100



10-Aug-98 14:17

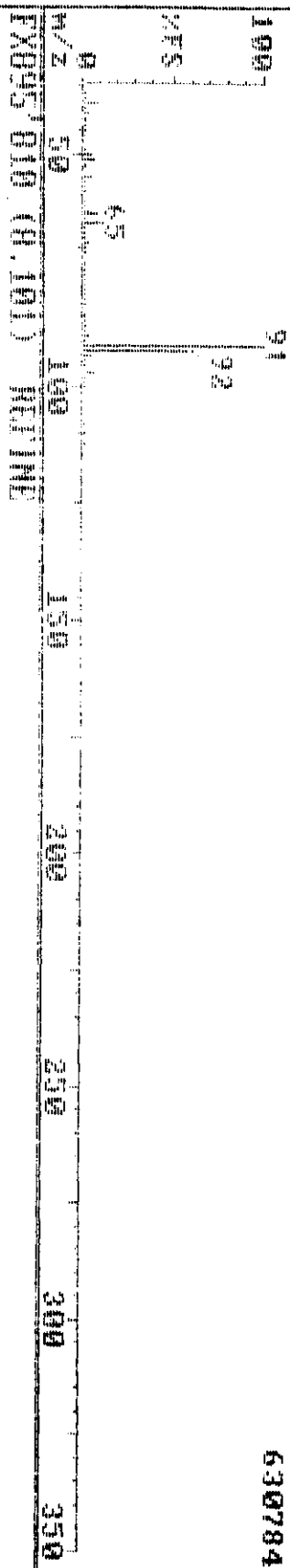
Triangl Laboratory, Inc. (919) 544-5729

Sample: T-U-1-2-A I 214-L-70 TLW46297

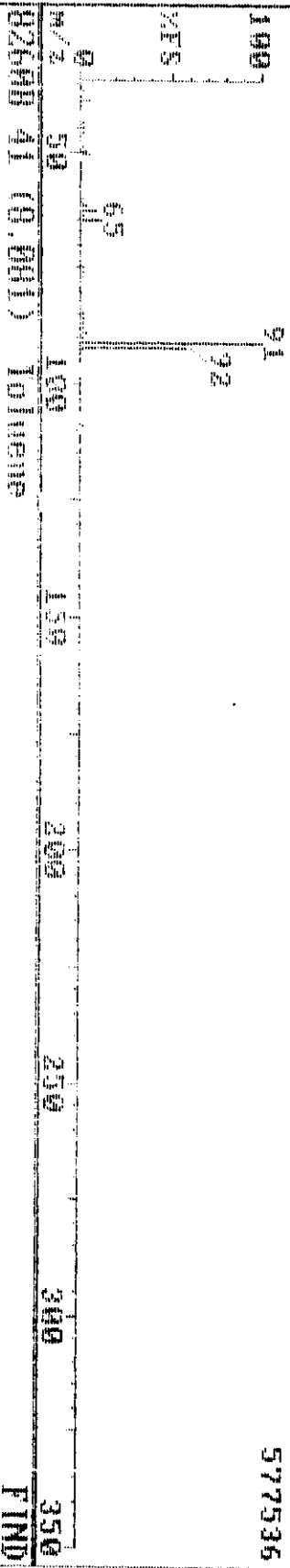
Instrument F

FX895 810 (0.101)

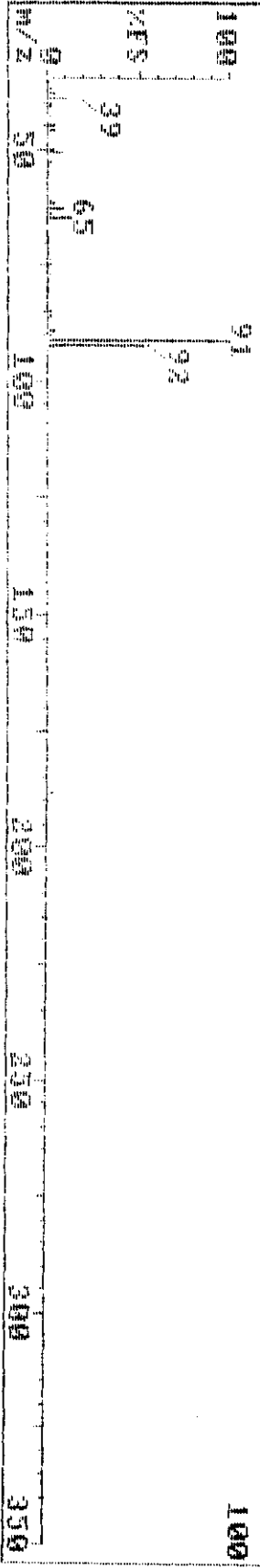
630784



577536



FTND 100



10-Aug-90 14:17

Triangle Laboratories, Inc.

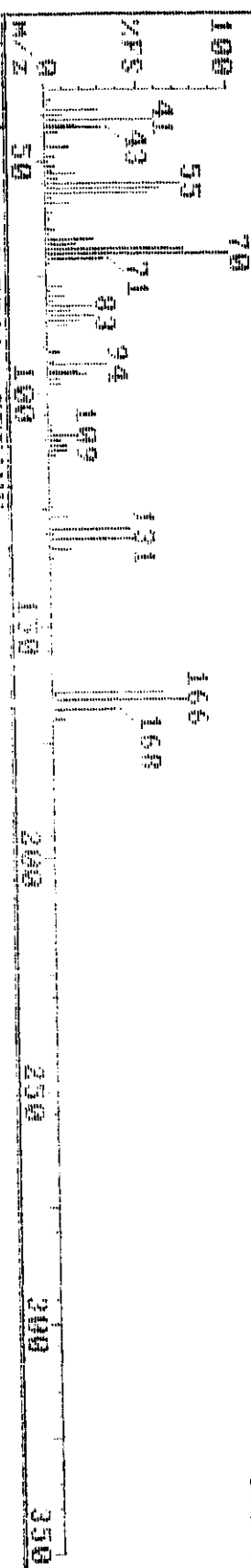
(919) 544-5729

Instrument F

Sample: T-4-1-2-A T 214-1-70 T1146297

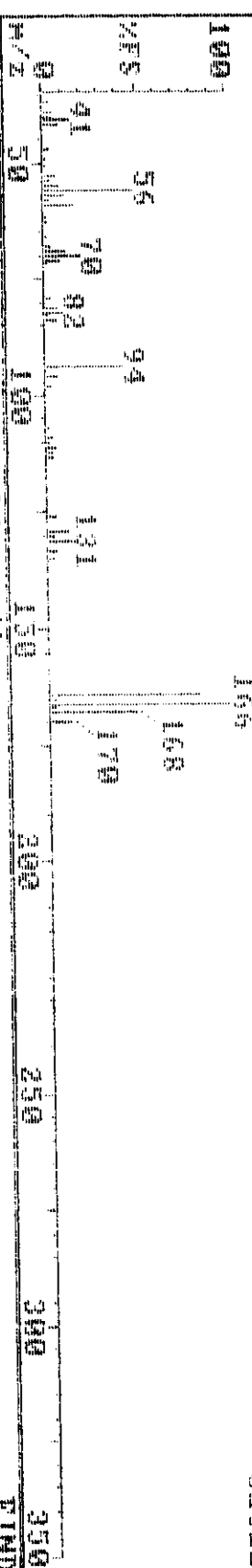
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49664



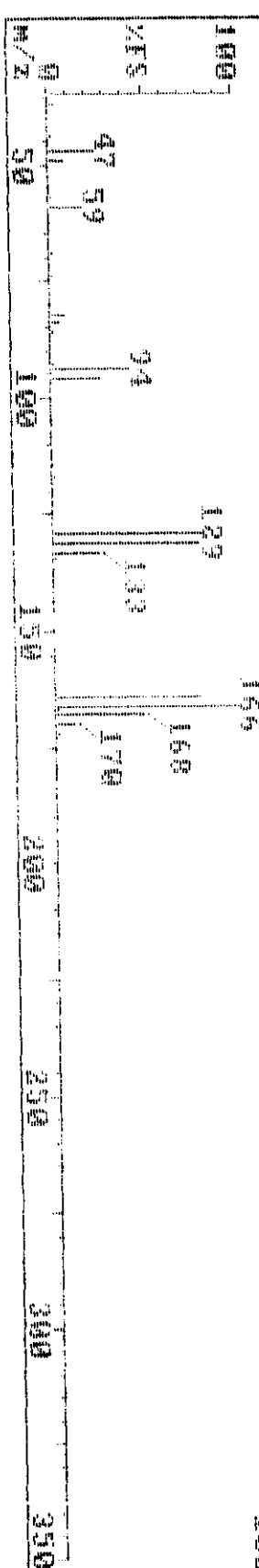
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32512

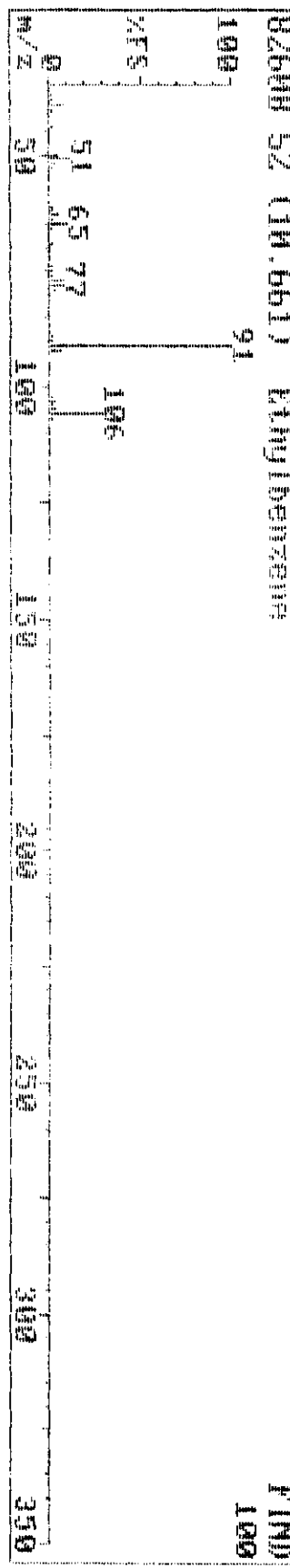
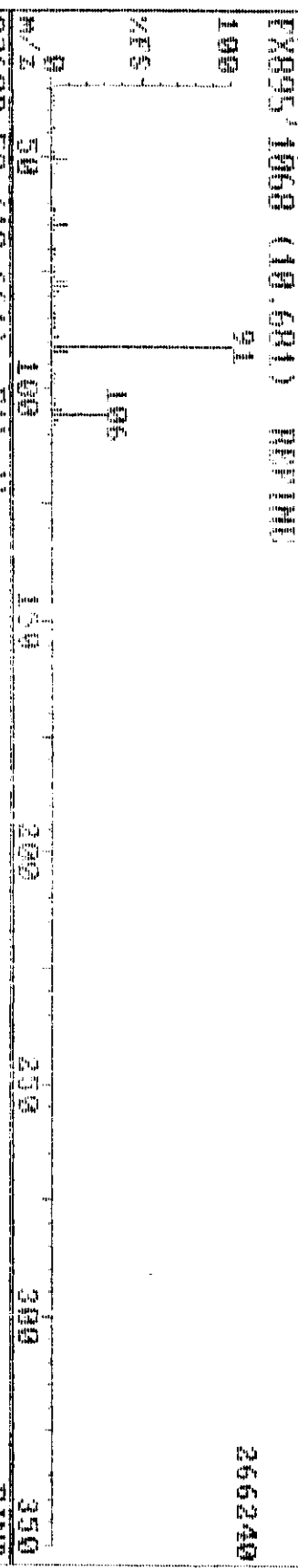
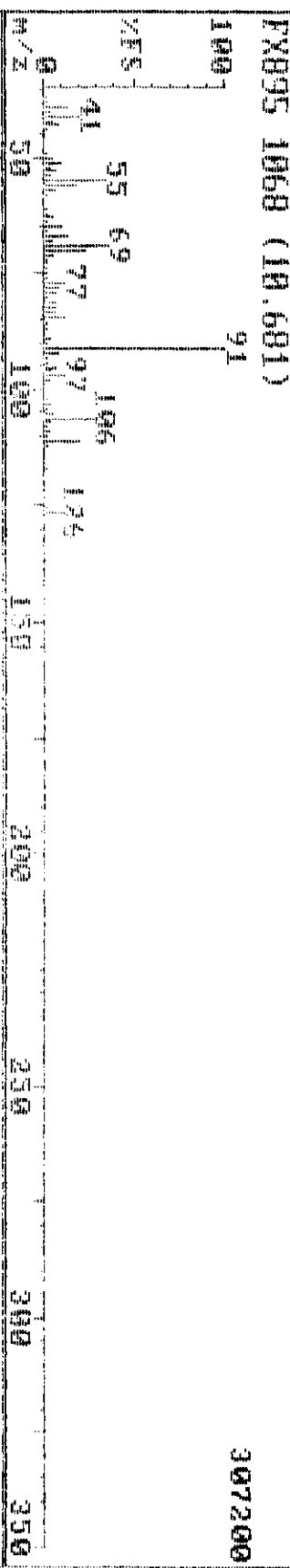


02600 45 (8.911) Tetrachloroethylene

FIND 100



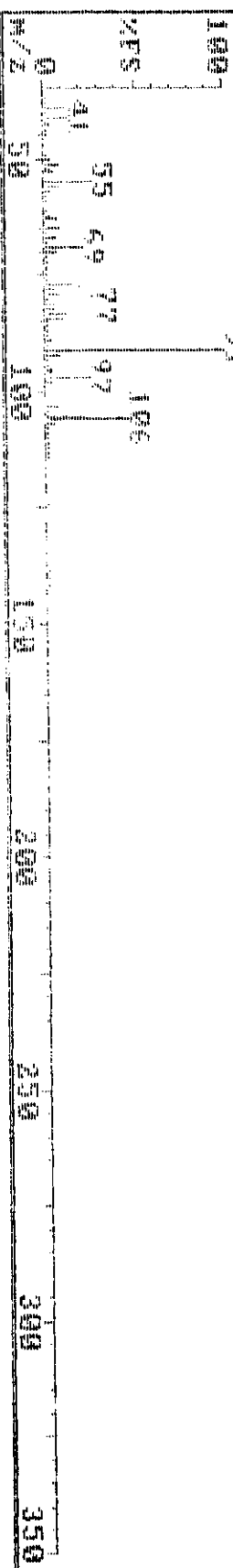
18-Aug-98 14:17 Triowhite Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-2-A 1 24-1-79 TUM40297 Instrument F



10-Aug-98 14:17 Triang Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-2-A T 214-1-376 T11446707 Instrument F

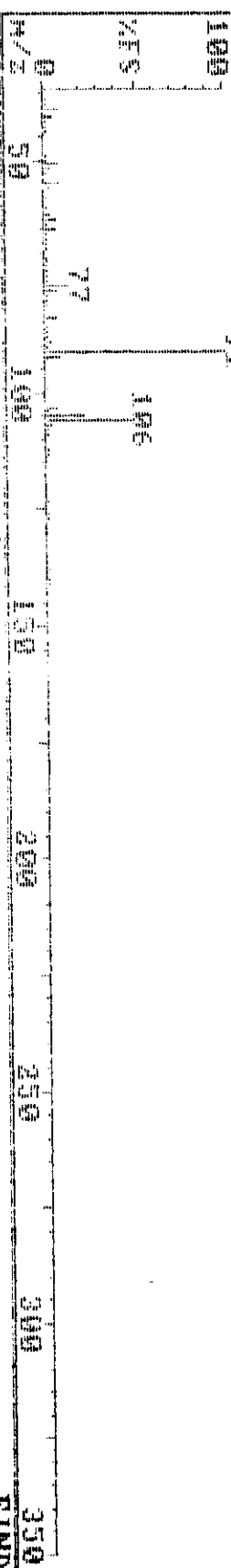
FX095 1092 (10.921)

1245184



FX095 1092 (10.921) NHTM

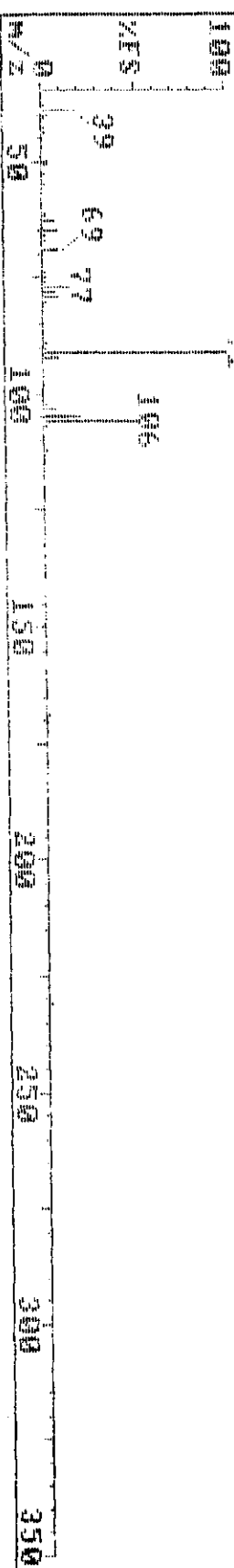
1097728



02600 53 (10.901) m/p-Xylene

FIND

100



10-Aug-90 14:17

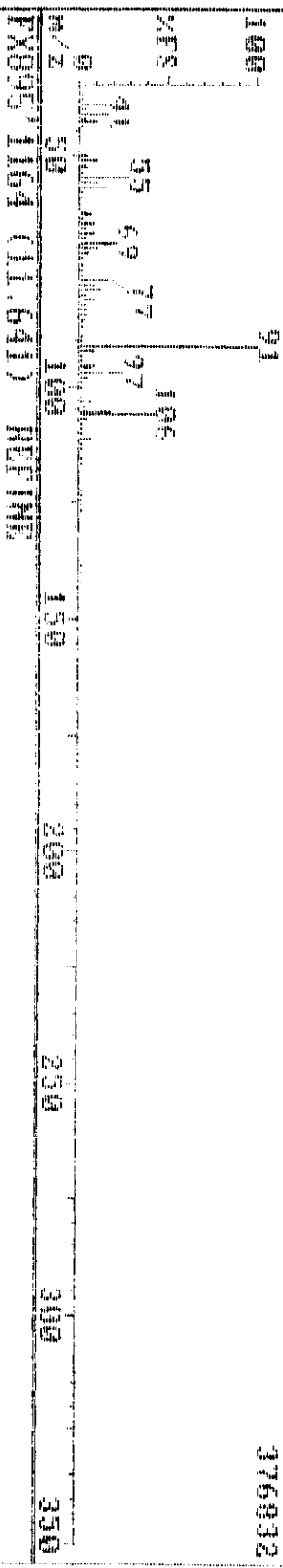
Trienvo Laboratories, Inc. (919) 544-5770

Sample: 10-12-0 1 214-170 T1146207

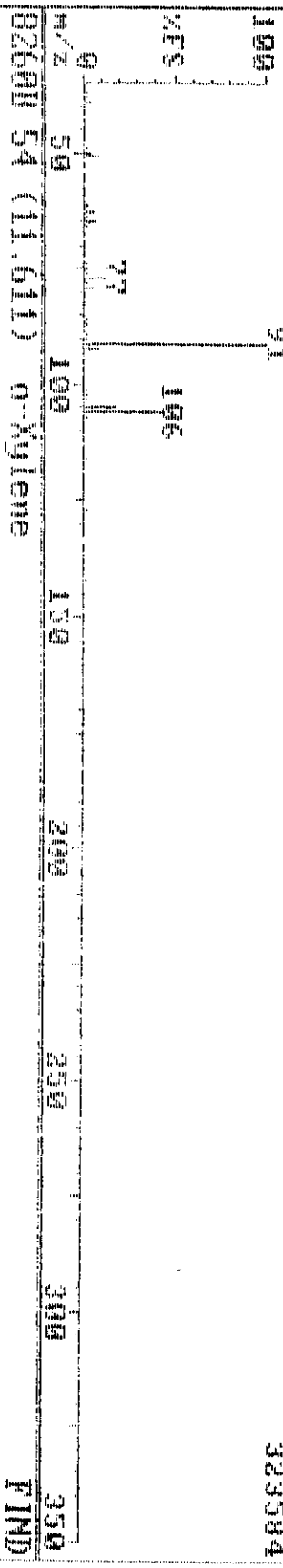
Instrument: F

FX095 1164 (11.641)

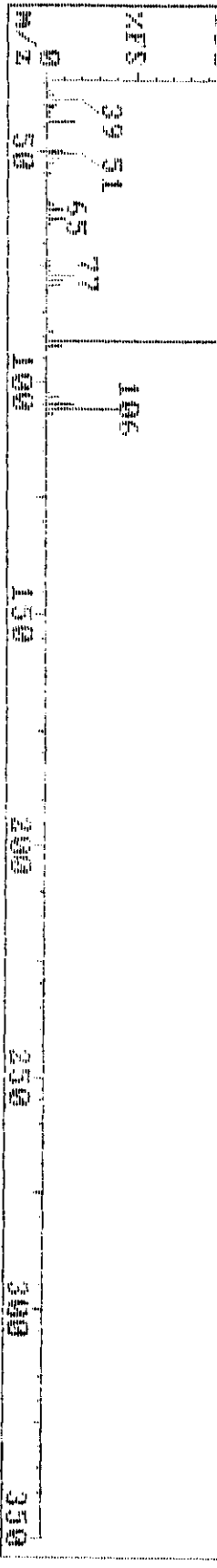
376932



323584



FTND



FTND

10-Aug-90 14:17

Triangulo Laboratories, Inc.

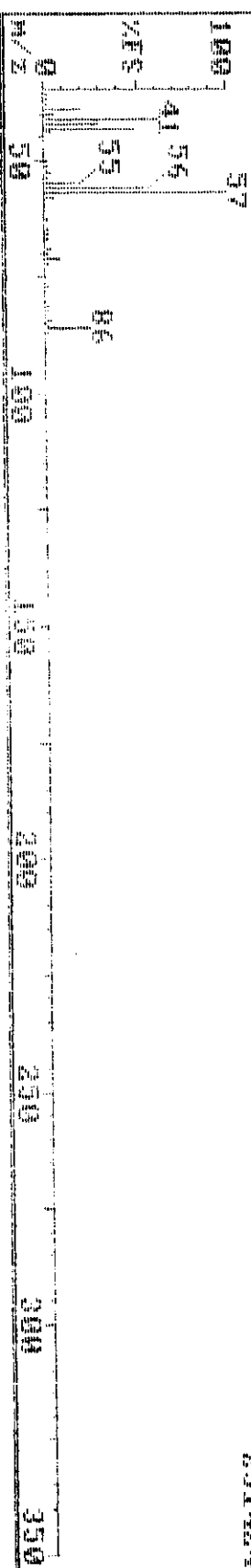
(910) 544-5729

Sample: T-U-1-2-a T 211-1-70 TLM40297

Instrument F

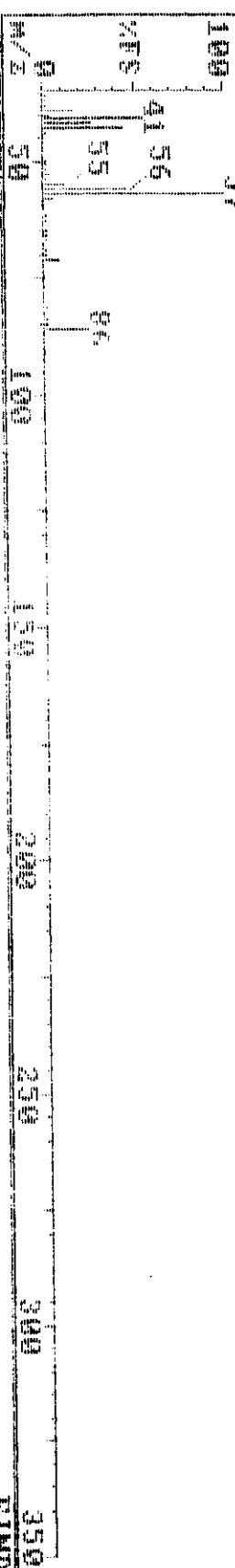
PX895 389 (3.890)

231424



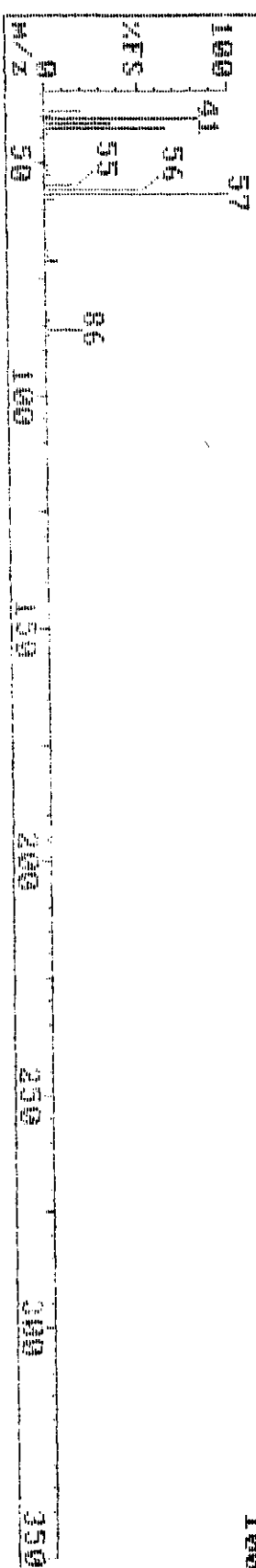
PX895 389 (3.891) REFINE

216064



026HX 11 (3.070) n-Hexane

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

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
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

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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

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 ₅		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 ₄		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

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 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 ₈	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.

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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: 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	3.90		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

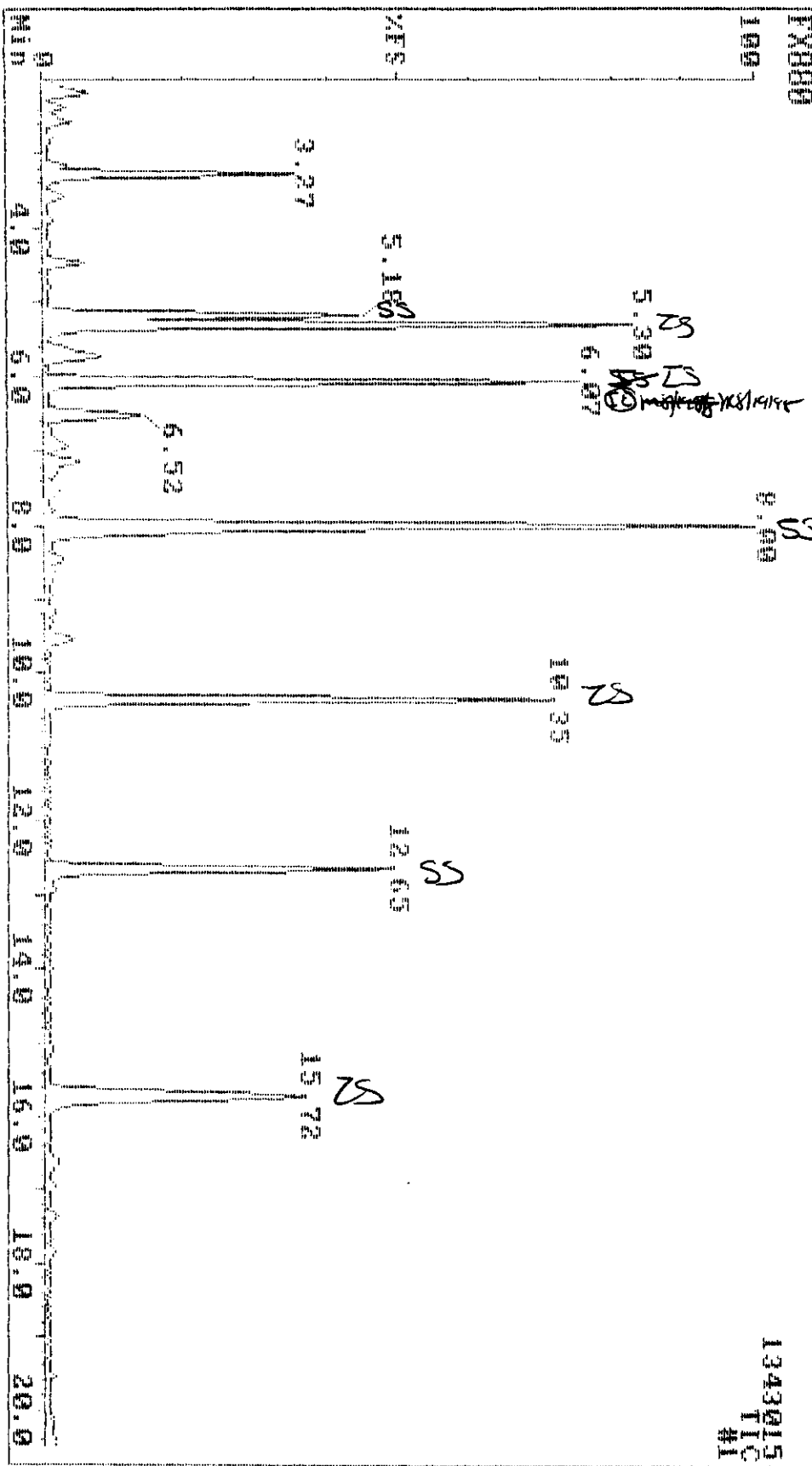
NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

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

17 Aug 90 17:30 T-Hausle Laboratories, Inc. (919) 544-5729
 Sample: T-V-1-2-B TO 214-1-76 TLH46297 Instrument F



Data Review: *W*
 Date: 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	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 Allyl chloride
19	100	86	95	0	636016	bb	3.270	84 methylene chloride
20	7	2	10	-4	1278	bb	3.530	55 Acrylonitrile FP
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	6436	bb	4.201	43 2-Butanone FP
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 Trichloroethane
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	16208	bb	7.271	43 4-Methyl-2-pentanone FP
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: YN

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	3763	A	10.851	106	Ethylbenzene
53	0	0	0	0	10524	A	10.911	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	1,1,4-trimethylbenzene
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	Benzal 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	1,7-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	128	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	149996	A	1.158	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106 Vinyl bromide
10	55	38	54	3	9092	bv	3.520	75 MTBE FP
11	76	62	62	2	12408	bb	3.900	57 n-Hexane
12	55	40	61	8	19820	A	4.178	42 1,2-Epoxybutane FP
13	63	47	59	3	84526	bv	5.711	57 Iso-Octane FP
14	43	27	69	12	221956	bb	6.531	55 Ethyl acrylate FP

m8/19/98

17-Aug-98 17:30

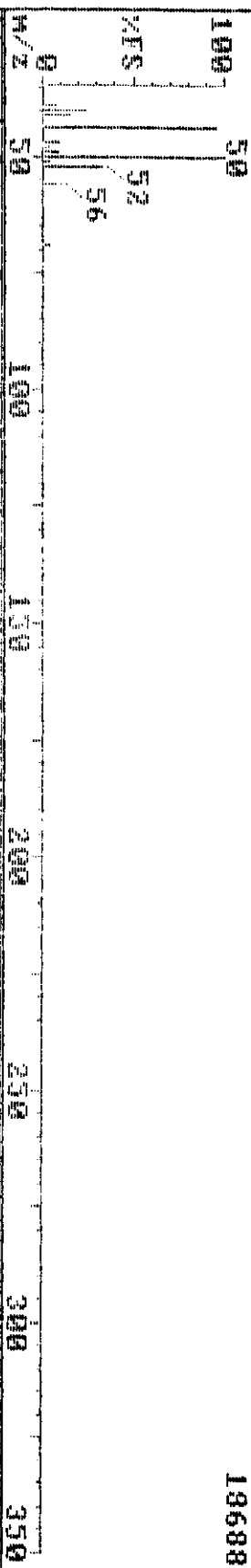
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-V-1-2-B TC 214-1-7H TLH46297

Instrument F

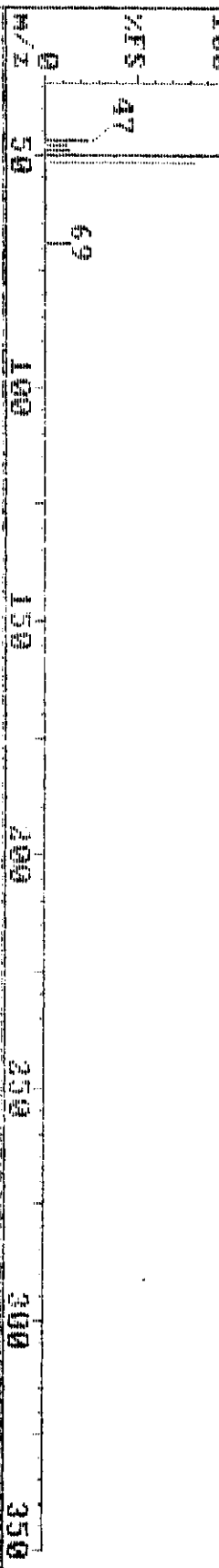
FX800 109 (1.090)

13688



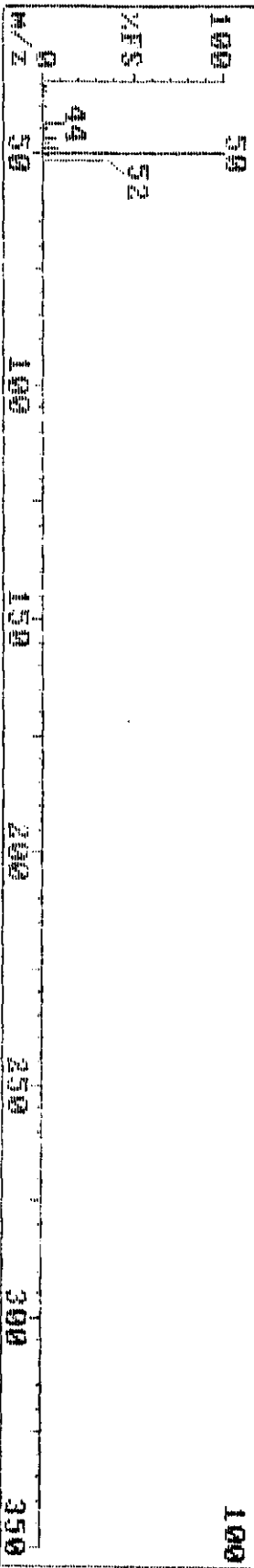
FX800 109 (1.091) REFINE

6464



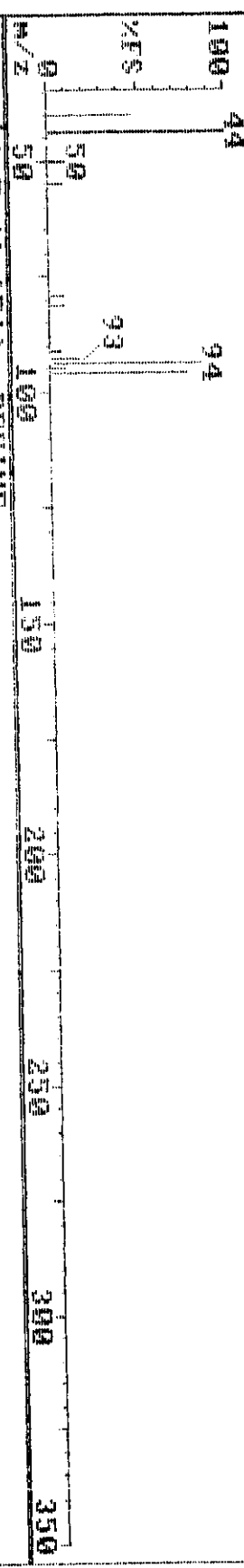
02600 9 (1.070) Chloromethane

FIND

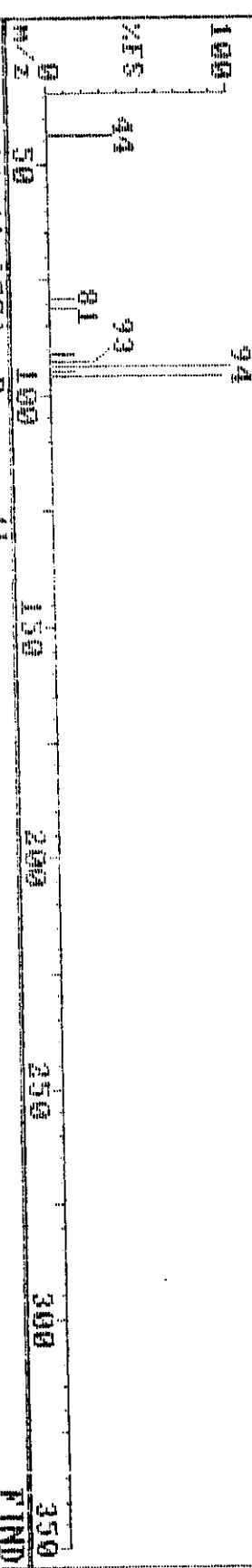


17-Aug-98 17:30 Triang Laboratories, Inc. (919) 544-5729
Sample: T-U-1-2-B TC 214-1-7B TLH46297 Instrument F

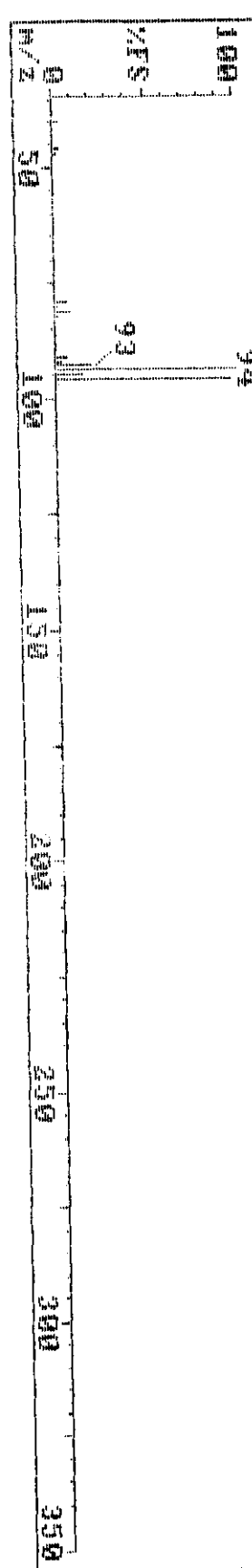
FX880 165 (1.650) 9600



FX880 165 (1.651) REFINE 6090



0260B 11 (1.620) Bromomethane FIND 100



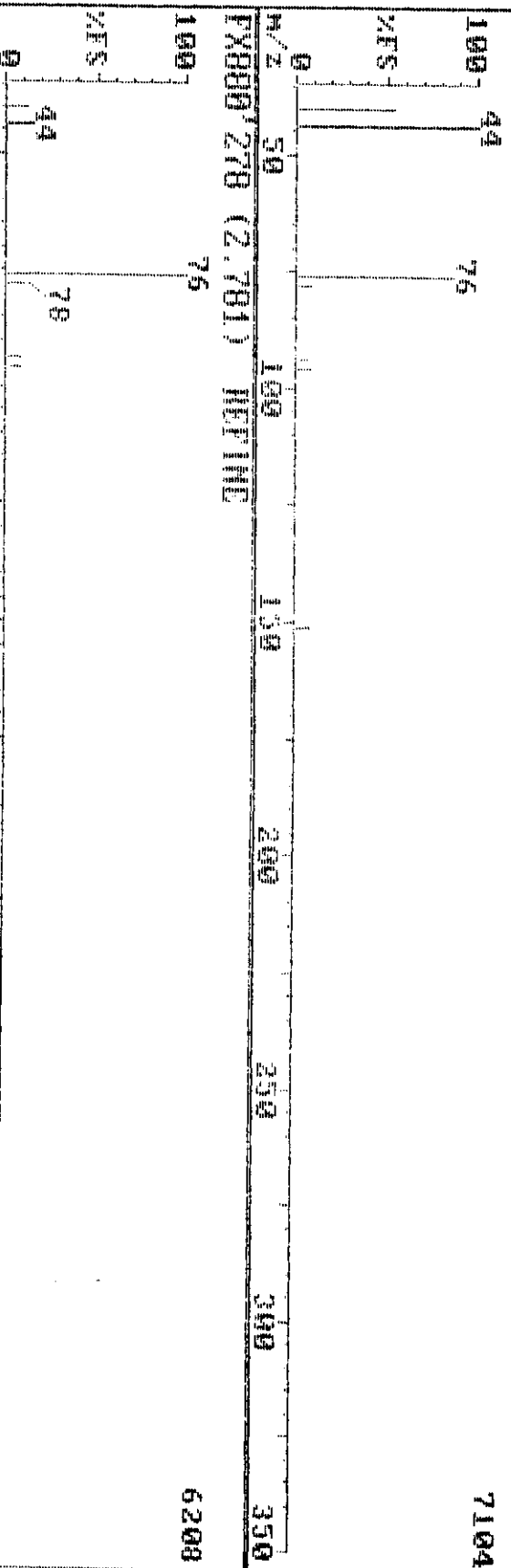
17-Aug-90 17:30

Triangle Laboratories, Inc. (919) 544-5729

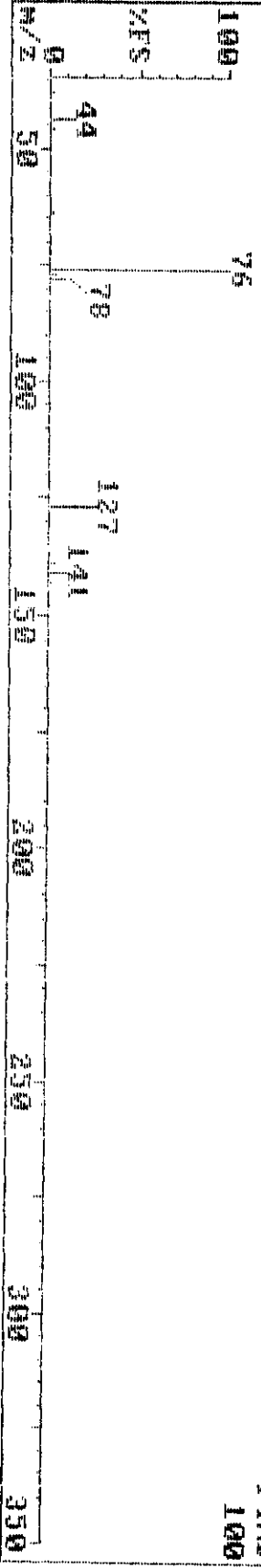
Sample: T-V-1-Z-B TC 214-1-70 TLH46297

Instrument F

FX800 278 (2.780)

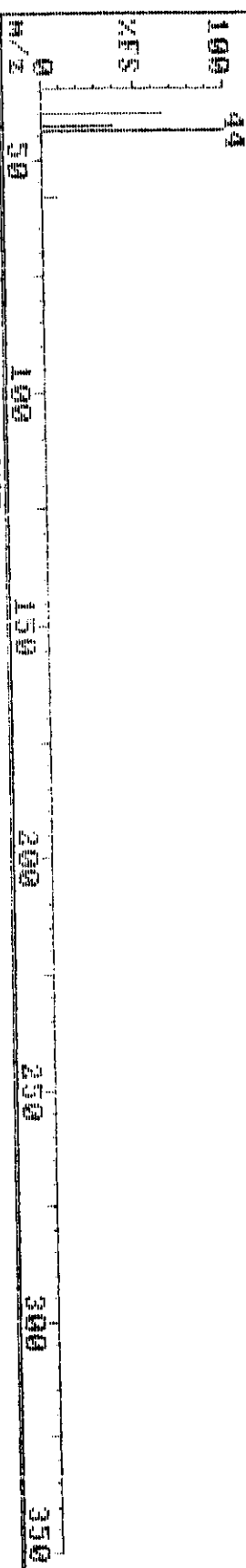


8260H 16 (2.770) Carbon disulfide

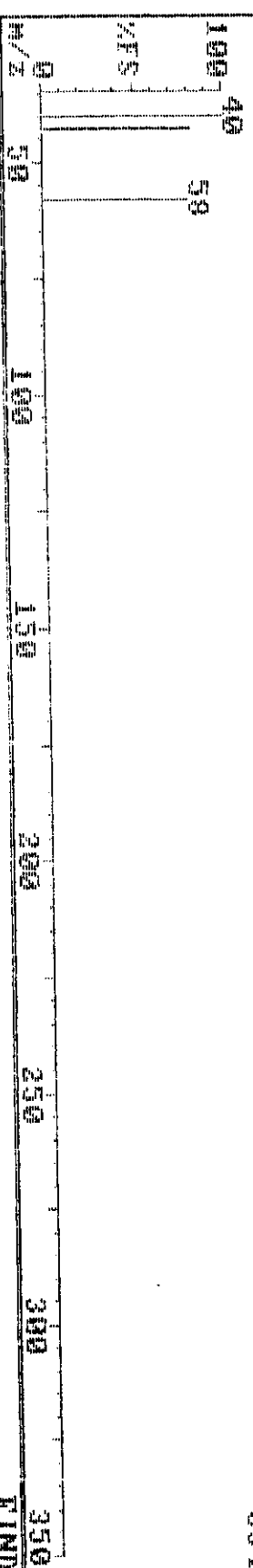


17-Aug-98 17:30 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-2-B TC 214-1-7B TLH46297 Instrument F

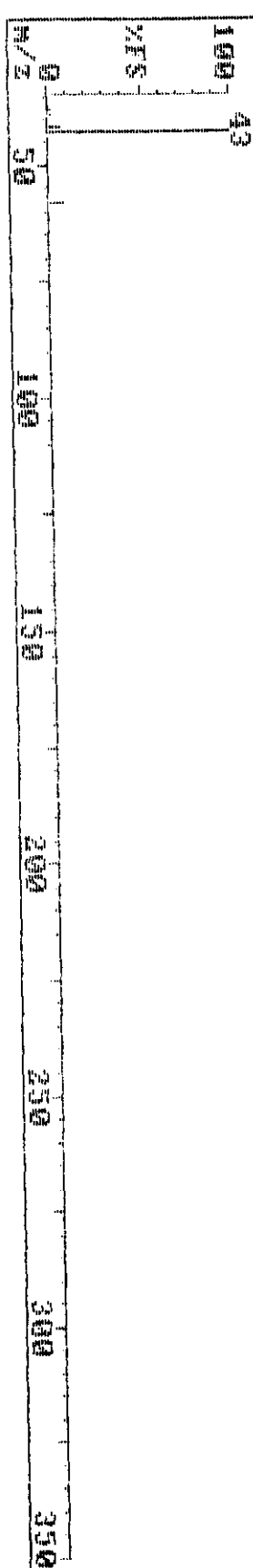
FX880 286 (2.860) 5888



FX880 286 (2.861) REFINE 884



02600 17 (2.820) Acetone FIND 100



17-Aug-98 17:30

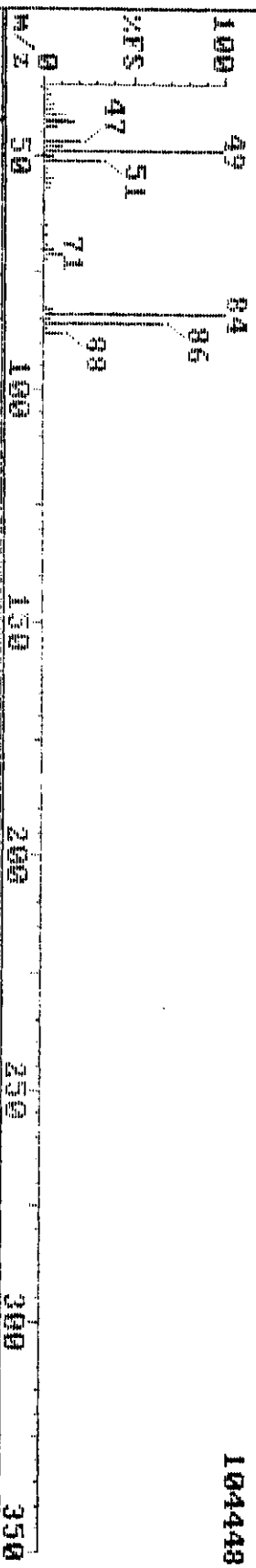
Triangule Laboratories, Inc. (919) 544-5729

Sample: T-V-1-2-B TC 214-1-7D TLH46297

Instrument F

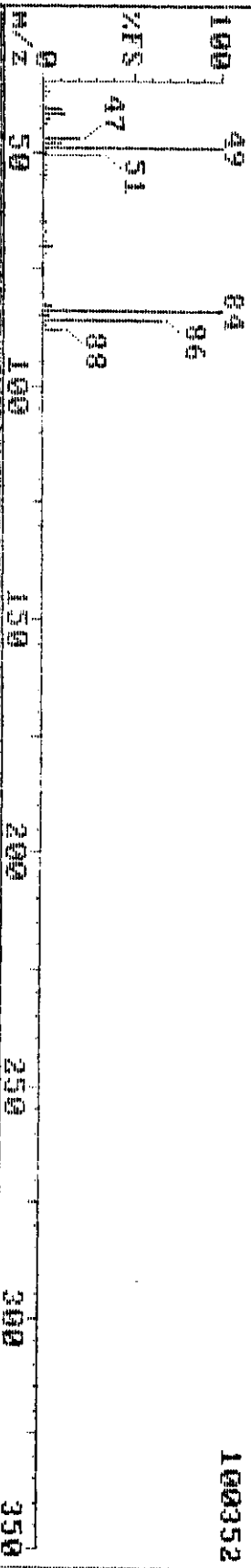
FX880 327 (3.270)

104448



FX880 327 (3.271) REFINE

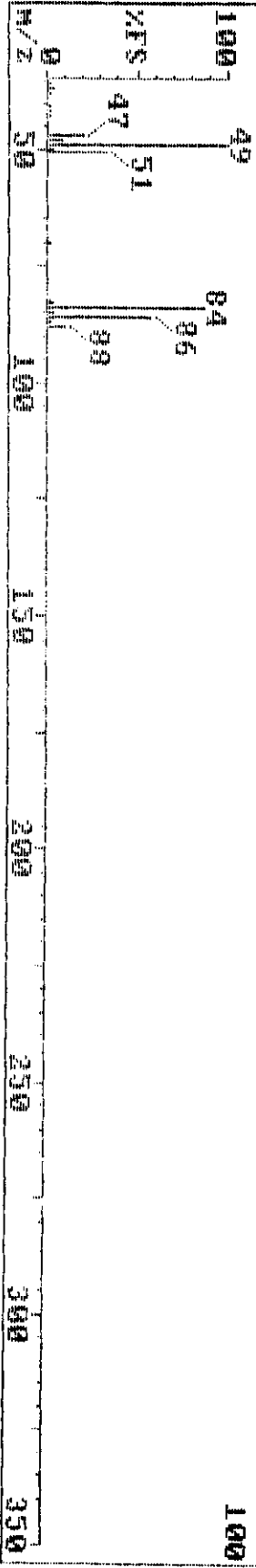
100352



02600 19 (3.260) Methylene chloride

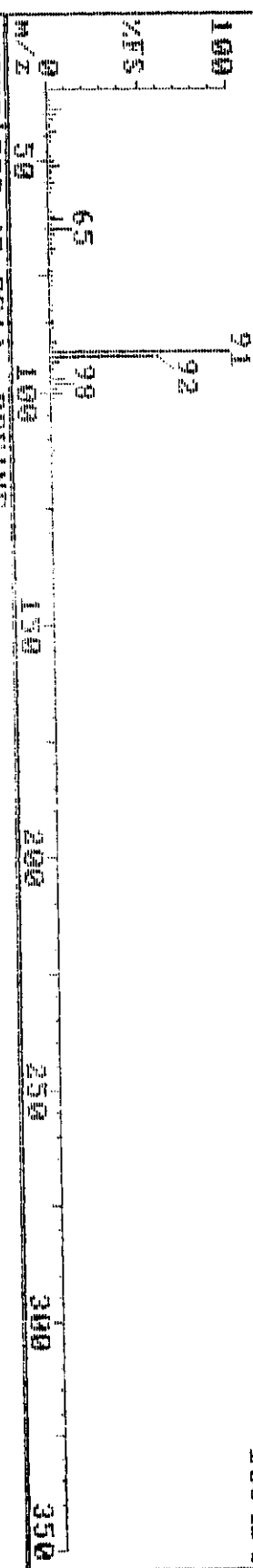
FIND

100

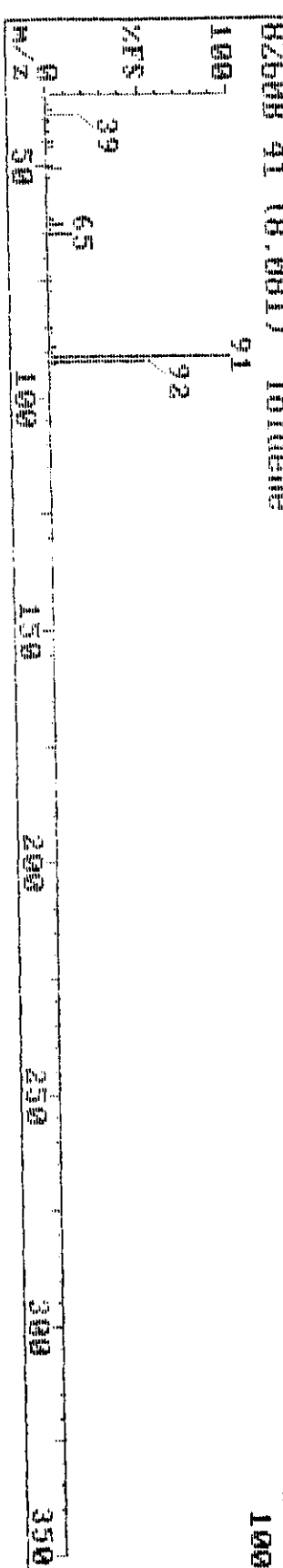
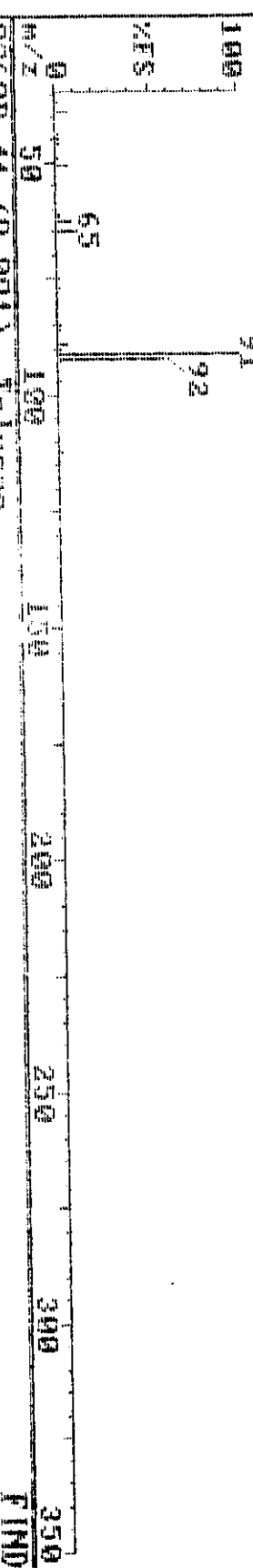


17-Aug-98 17:30 TriangLe Laboratories, Inc. (919) 544-5729
Sample: T-U-1-2-B TC 214-1-7D 11/14/6297 Instrument F

FX800 009 (8.091) 103424



FX800 009 (8.091) NUTME 94208



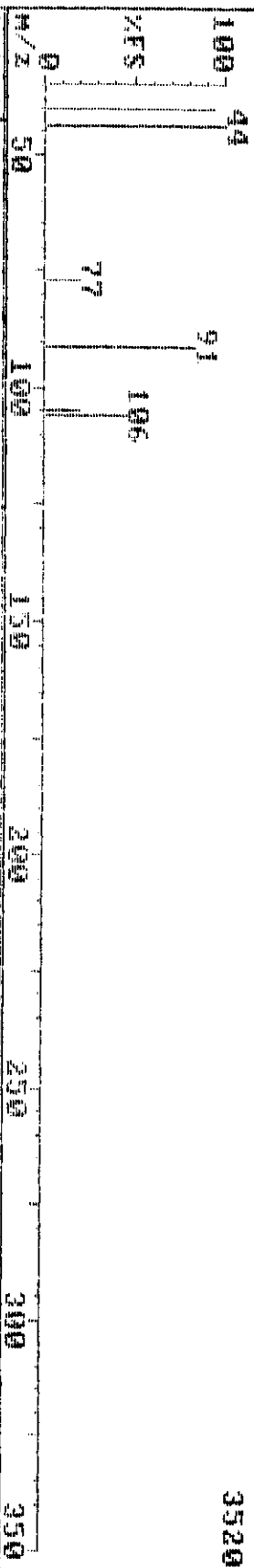
17-Aug-98 17:30

Triangulo Laboratories, Inc. (919) 544-5729

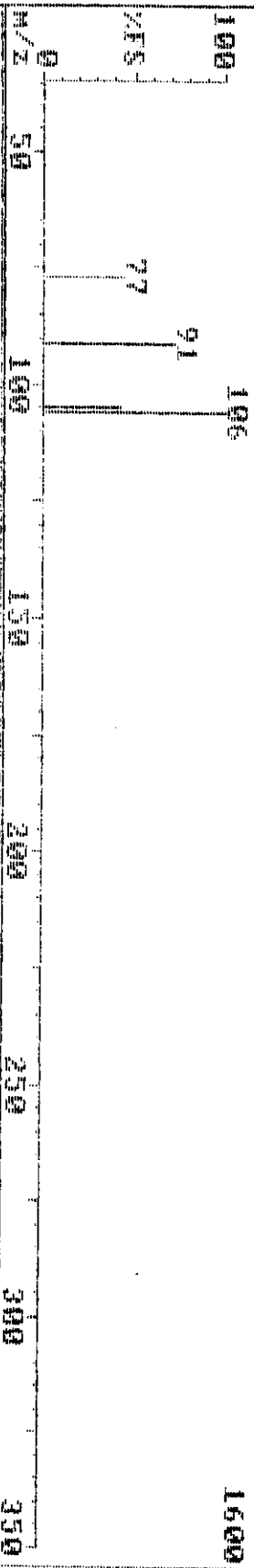
Sample: T-V-1-2-B TO 244-1-7D T1146297

Instrument F

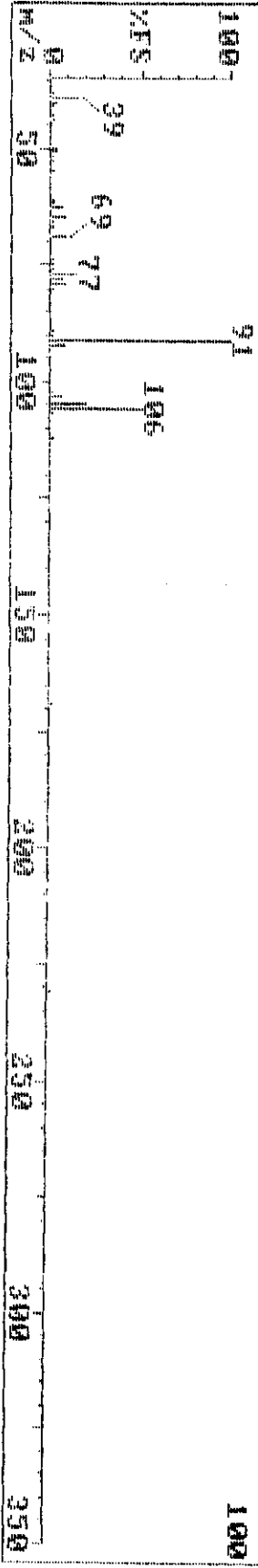
FX800 1091 (10.911)



FX800 1091 (10.911) REFINE

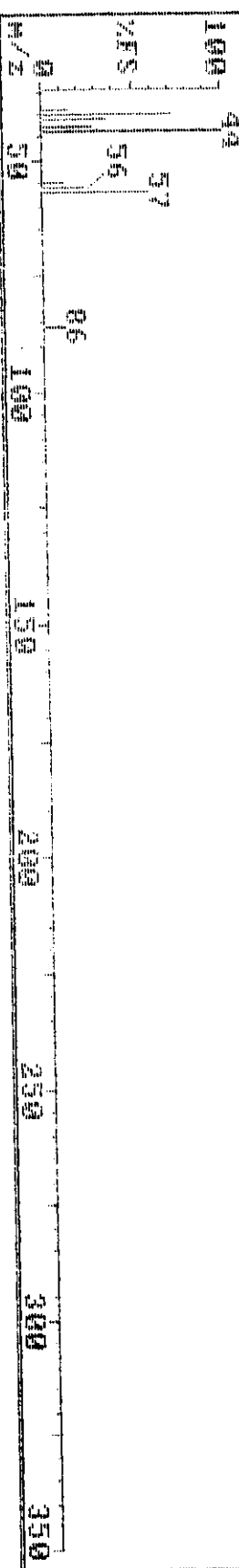


82600 53 (10.981) m-P-Xylene

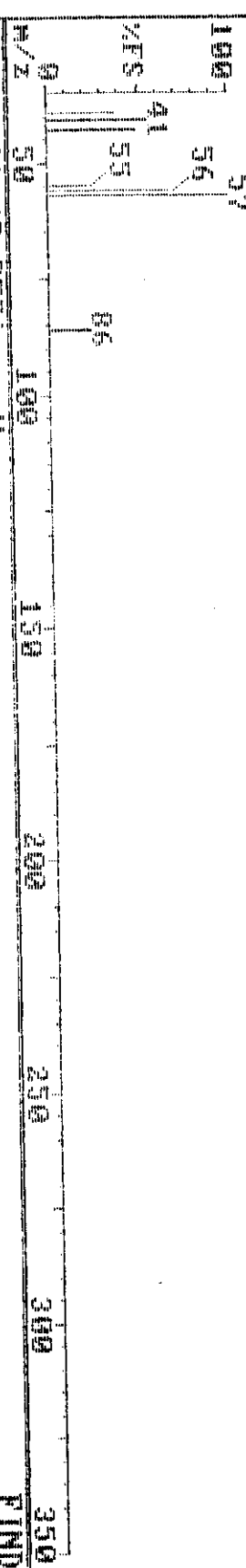


17-Aug-98 17:30 Triangulo Laboratories, Inc. (919) 544-5729
 Sample: T-9-1-2-B TC 214-1-7B T1146297 Instrument F

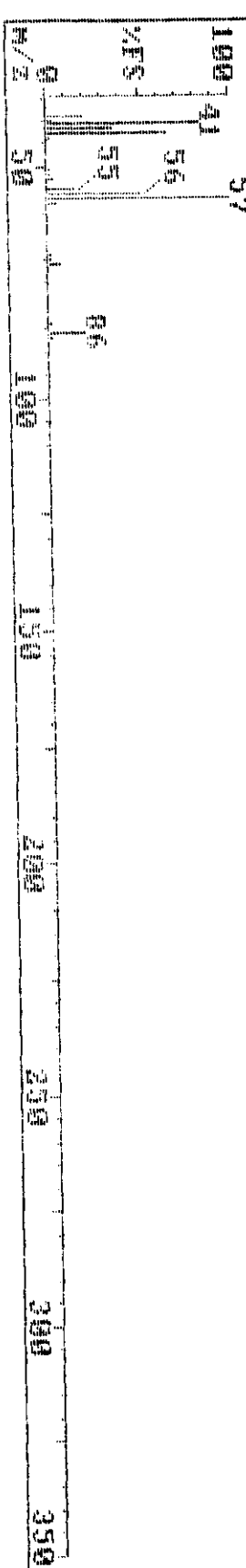
FX800 390 (3.900) 5248



FX800 390 (3.901) RETIME 3104



826HX 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

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
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.

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: 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

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 ₄		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 ₄		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

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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: ICALH809

Date Analyzed : 08/19/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.258	4.92	1	103
Toluene-d ₈	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

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: 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 _____

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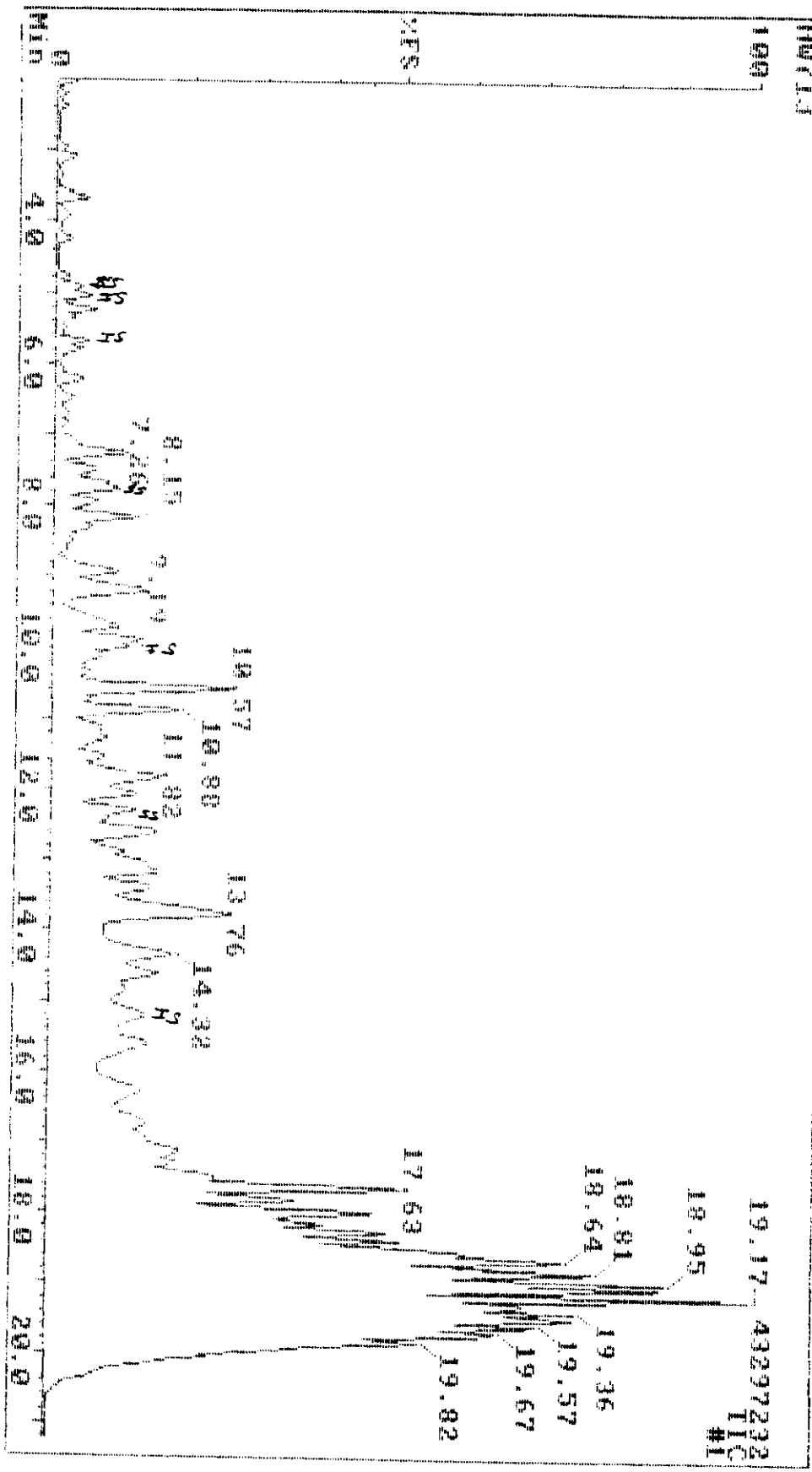
Phone: (919) 544-5729 • Fax: (919) 544-5491

Savar v3.7

Printed: 18:34 08/24/1998

98

98

[illegible][illegible][illegible][illegible]

Data Review: *YK*
Date: *8/19/21*

No.	MAT	FOR	REV	Delta	Area	P	Flags	RT	QM	Name
1	99	64	96	1	5884232	bv		5.05	168	Pentafluorobenzene
2	100	79	94	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	Dibromofluoromethane
6	98	71	89	1	5326336	bb		7.67	98	Isotane-d8
7	73	49	75	2	5534592	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	141896	bb		1.89	100	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	120980	bb		2.53	76	Carbon tetrachloride
17	97	82	92	5	457462	vv		2.73	47	Acetone
18	0	0	0	0	0			0.00	41	Acetyl chloride
19	0	0	0	0	0			0.00	84	Methylcyclopropane
20	98	10	58	-4	31534	bb		1.47	94	Bromomethane
21	0	0	0	0	0			0.00	95	Acrylonitrile
22	0	0	0	0	0			0.00	96	Isopropylchloride
23	0	0	0	0	0			0.00	51	1,1-Dichloroethane
24	0	0	0	0	0			0.00	37	Vinyl acetate
25	0	0	0	0	0			0.00	77	1,2-Dichloropropane
26	0	0	0	0	0			0.00	90	cis-1,2-Dichloroethane
27	100	80	95	2	497917	bv		1.12	45	2-Pentanone
28	0	0	0	0	0			0.00	83	Chloroform
29	0	0	0	0	0			0.00	128	Bromochloromethane
30	0	0	0	0	0			0.00	97	1,1,1-Trichloroethane
31	0	0	0	0	0			0.00	117	Carbon tetrachloride
32	0	0	0	0	0			0.00	75	1,1-Dichloropropene
33	100	97	99	1	3344602	bv		3.25	70	Benzene
34	0	0	0	0	0			0.00	62	1,2-Dichloroethane
35	0	0	0	0	0			0.00	130	Trichloroethane
36	0	0	0	0	0			0.00	63	1,2-Dichloropropane
37	0	0	0	0	0			0.00	93	Dibromomethane
38	42	44	56	-14	1275584	bb		6.42	41	Methyl methacrylate
39	0	0	0	0	0			0.00	83	Bromodichloromethane
40	0	0	0	0	0			0.00	75	cis-1,2-Dichlorocyclohexane
41	50	23	63	3	421264	bb		7.68	45	4-Methyl-2-pentanone
42	100	88	99	0	6375734	bb		7.76	92	Toluene
43	0	0	0	0	0			0.00	75	trans-1,3-Dichloropropene
44	0	0	0	0	0			0.00	97	1,1,2-Trichloroethane
45	0	0	0	0	0			0.00	49	Ethyl methacrylate
46	71	55	80	0	321832	bb		8.59	164	Tetrachloroethene
47	0	0	0	0	0			0.00	76	1,3-Dichloropropane
48	44	26	67	-10	4539958	vv		8.92	43	2-Hexanone
49	0	0	0	0	0			0.00	129	Dibromochloromethane
50	0	0	0	0	0			0.00	107	1,2-Dibromoethane
51	0	0	0	0	0			0.00	112	Chlorobenzene

Data Review: *MM*
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	91	-1	11228750	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	Bromobenzene
57	0	0	0	0	0		0.00	105	Cumene
58	0	0	0	0	0		0.00	83	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	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	13521730	vi	14.33	105	1,2,4-Trimethylbenzene
68	39	10	55	-2	1244490	lv	14.55	105	sec-Butylbenzene
69	65	31	71	1	6726024	p	15.45	119	i-Butylene
70	0	0	0	0	0		0.00	106	1,2-Dichlorobenzene
71	0	0	0	0	0		0.00	106	1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	101	Hexachlorocyclopentadiene
73	0	0	0	0	0		0.00	101	n-Propylbenzene
74	0	0	0	0	0		0.00	146	1,2-Dichlorobenzene
75	0	0	0	0	0		0.00	75	1,2-Dichloro-2-chloropropr
76	0	0	0	0	0		0.00	180	1,2,3-Trichlorobenzene
77	0	0	0	0	0		0.00	225	Hexachlorobutadiene
78	0	0	0	0	0		0.00	103	Diphenylsulfone
79	0	0	0	0	0		0.00	130	1,2,3-Trichlorobenzene

YR819195

No.	MAI	FOR	REV	Delta	Area	P	Flags	RT	QM	Name	
1	99	64	96	1	3884232	bb		5.05	168	Pentafluorobenzene	
2	100	79	94	1	3448160	bv		5.73	114	1,4-Difluorobenzene	
3	84	59	77	3	3510642	bv		60.00	117	Chlorobenzene -15	
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	99	0	6326836	bb		7.67	98	Toluene-d8	
7	69	49	75	4	3534592	vv		12.29	95	4-Bromofluorobenzene	
8	66	43	74	6	113760	vv		1.17	FP	39	1,3-Butadiene
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	416032	bv		4.21	FP	42	1,2-Epoxybutane
13	70	51	64	1	212085	vt		1.14	FP	57	Isobutane
14	41	30	69	-14	1733226	bv		2.21	FP	53	Ethyl acetate

MC8119198

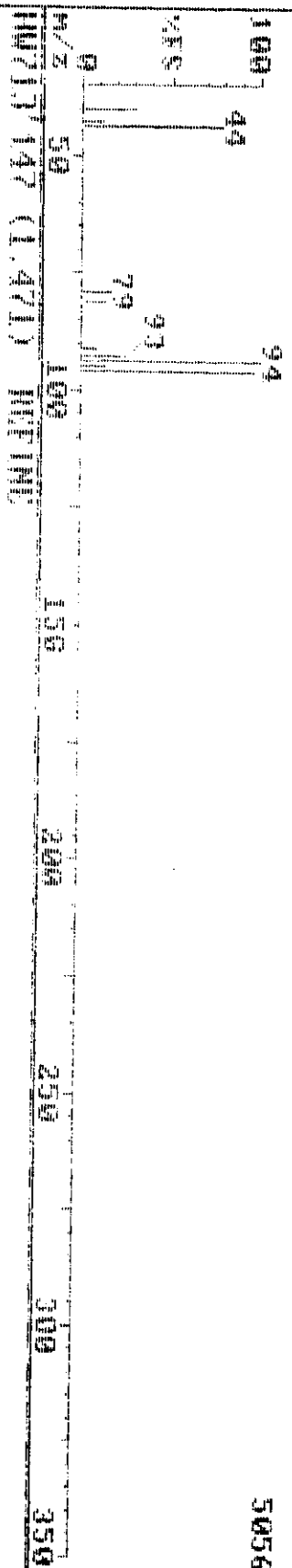
00-19 30 10:06

Triangulo Laboratories, Inc. (019) 544-5720

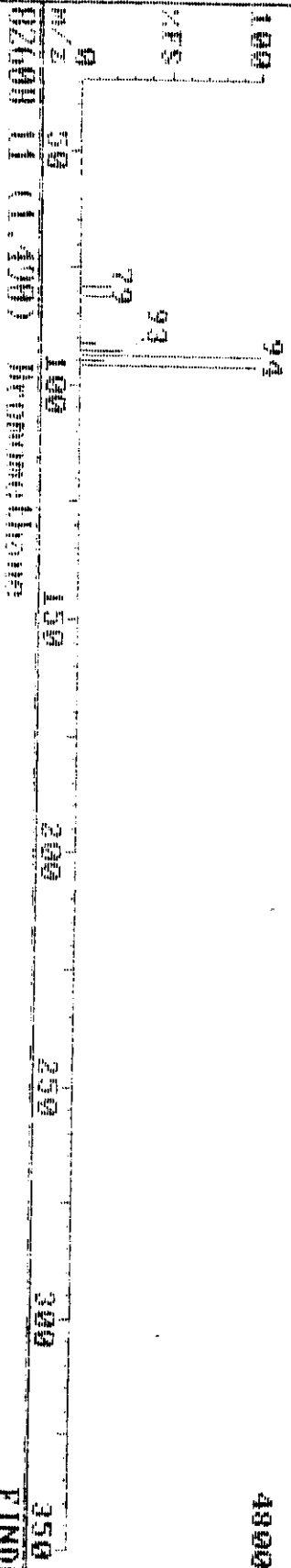
Sample: T-U-1-3-A T 214-1-00 U1146297

Instrument H

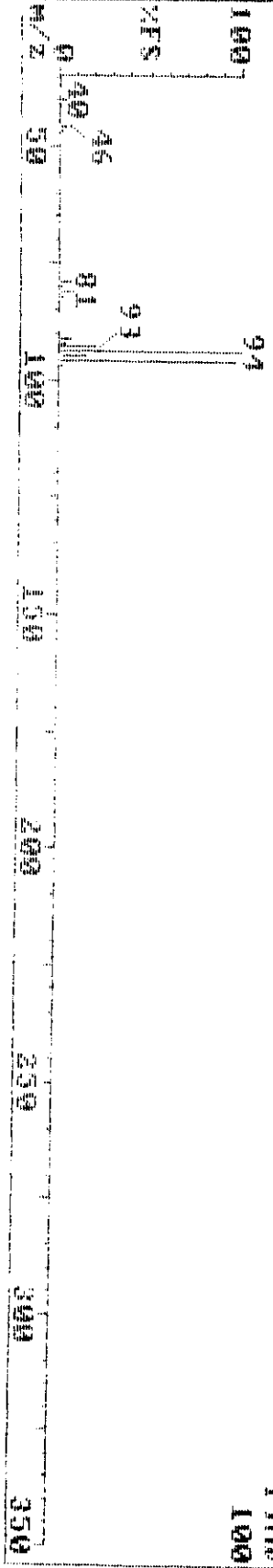
110713 147 (1.470)



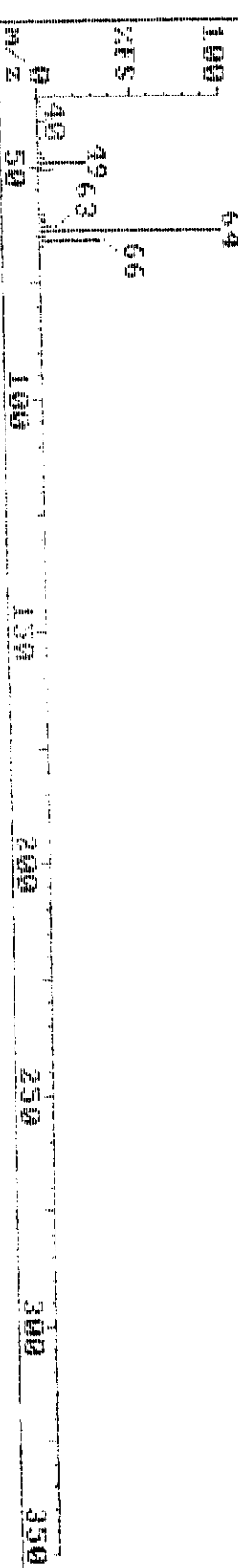
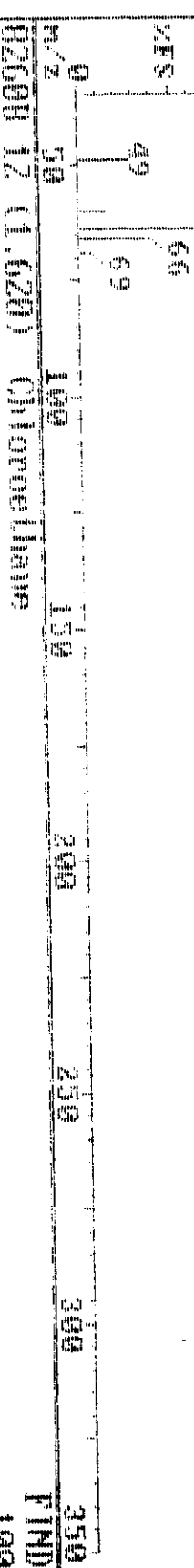
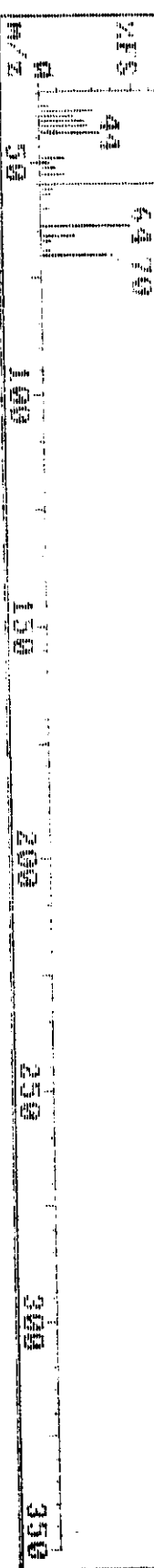
110713 147 (1.471) 110714



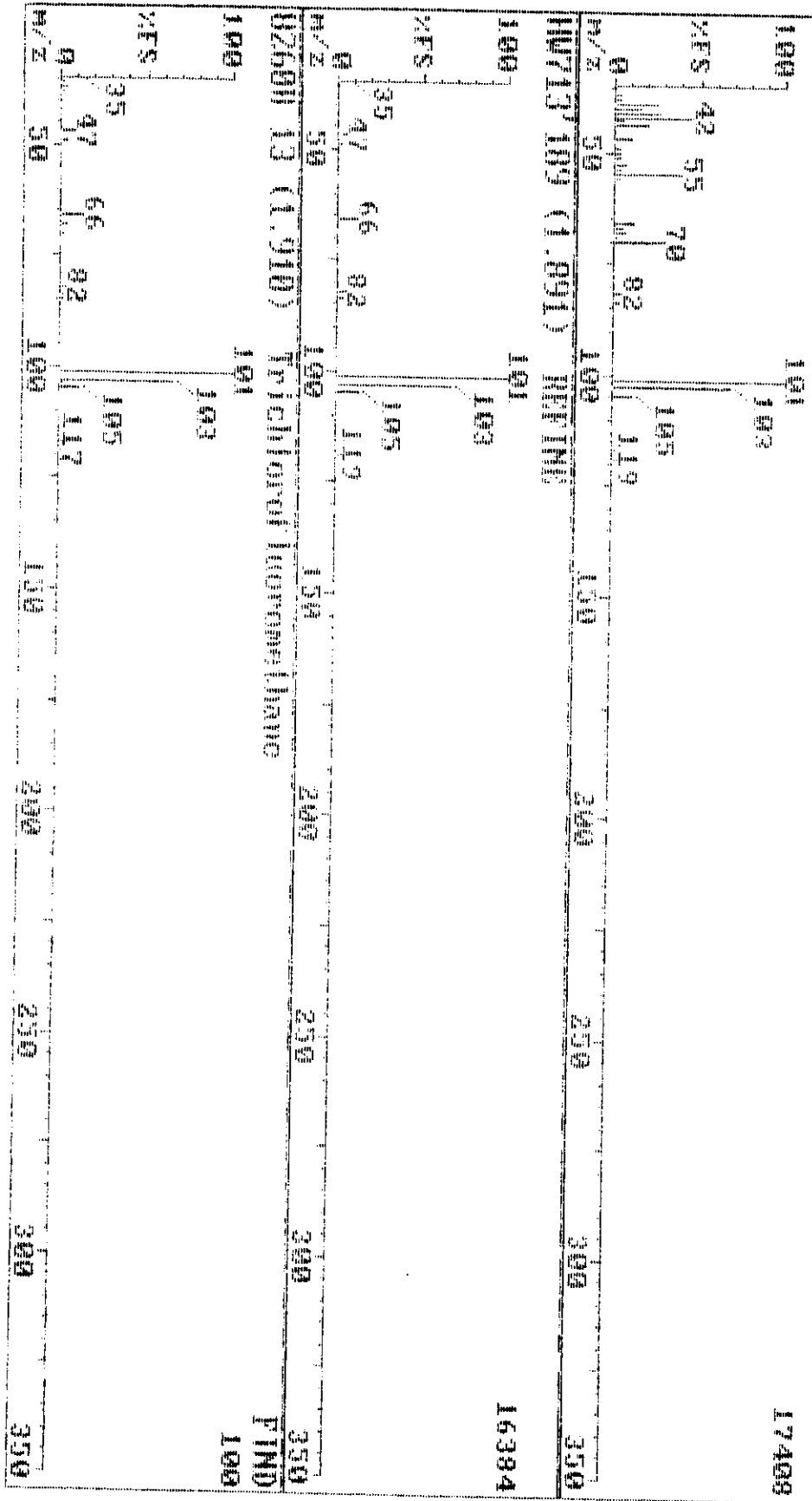
110713 147 (1.470) 110714



00-19-90 10:06 Triad Laboratories, Inc. (919) 644-5720
 Sample: T-V-1-37 T 214-1-00 T1446297 Instrument H

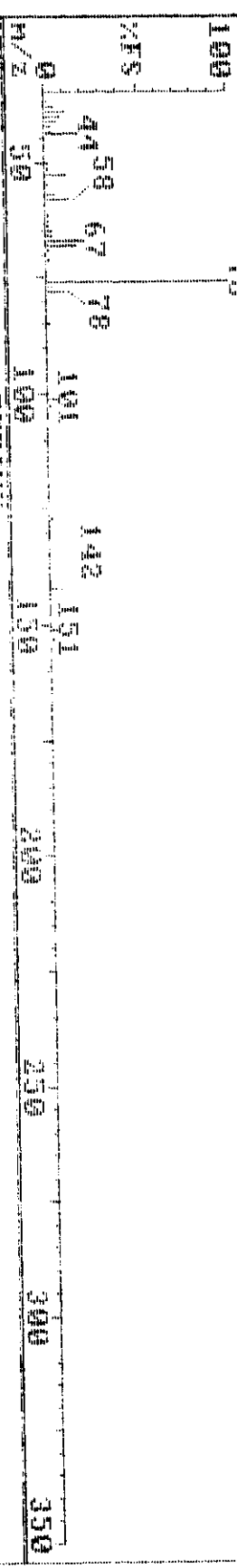


00-19-30 10:06 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-4-1-37-1 T 2111-00 T1146297 Instrument H

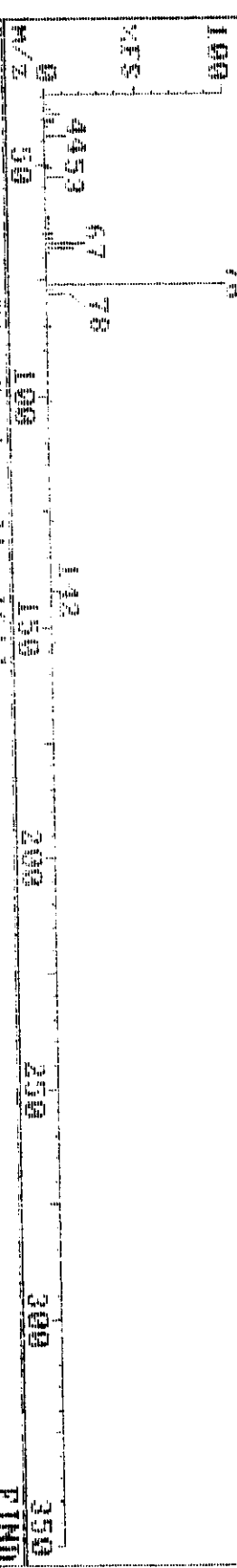


00 19-98 10:06 Triangle Laboratories, Inc. (910) 544-5770
 Sample: T-U-1-3-A T 214-150 T11146297 Instrument II

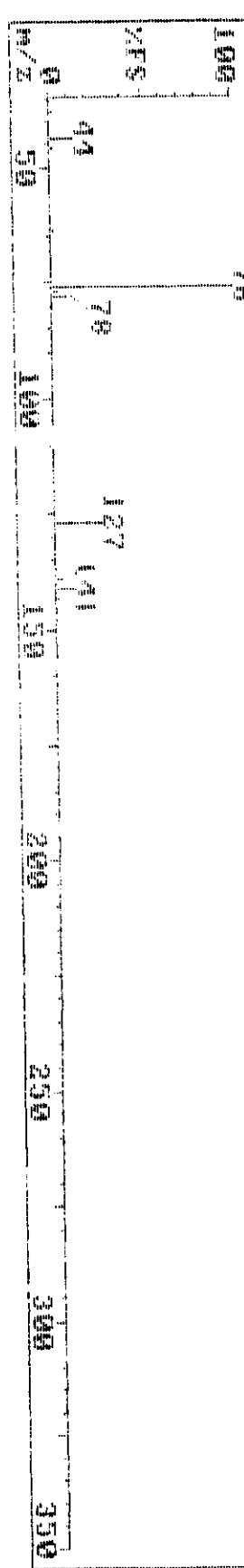
111713 250 (2.500) 36096



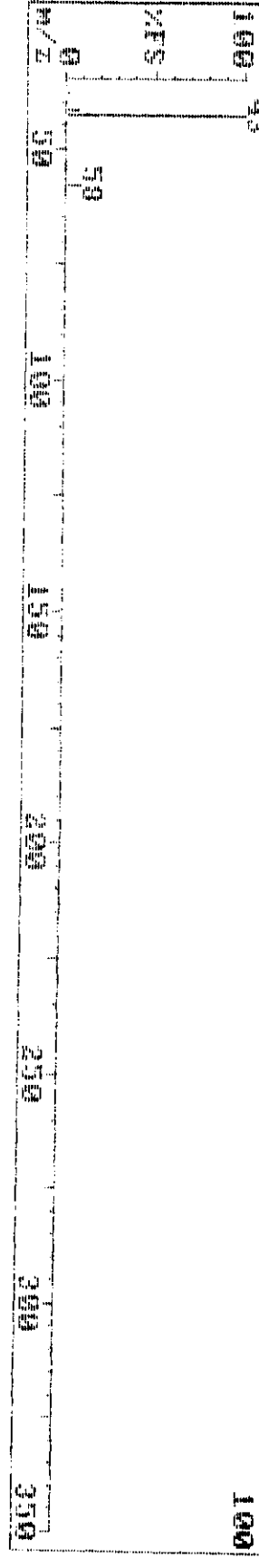
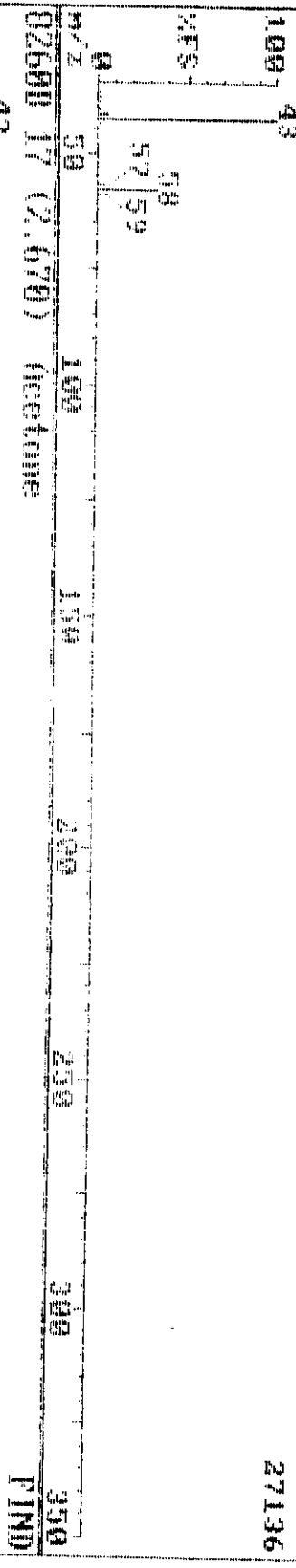
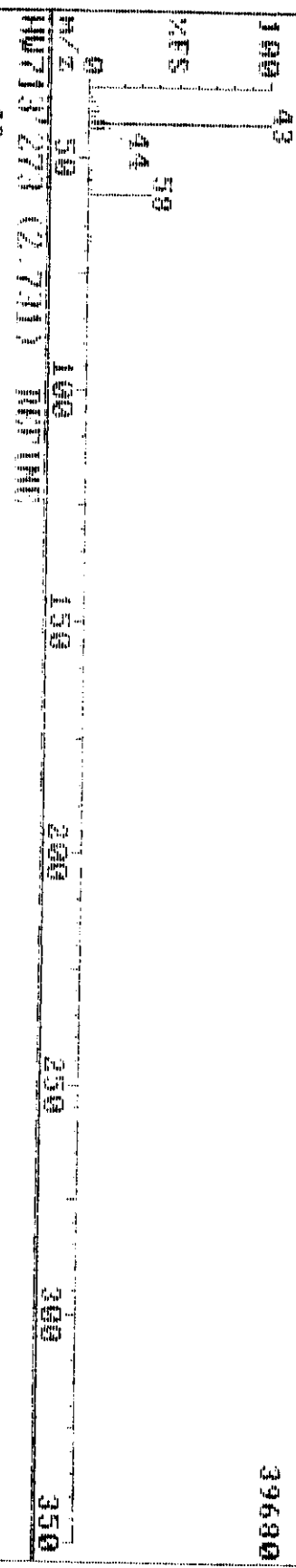
111713 250 (2.500) 35584



02600 16 (2.500) Carbon disulfide 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 II
 HU713 273 (2.730)



19-Aug-98 10:06

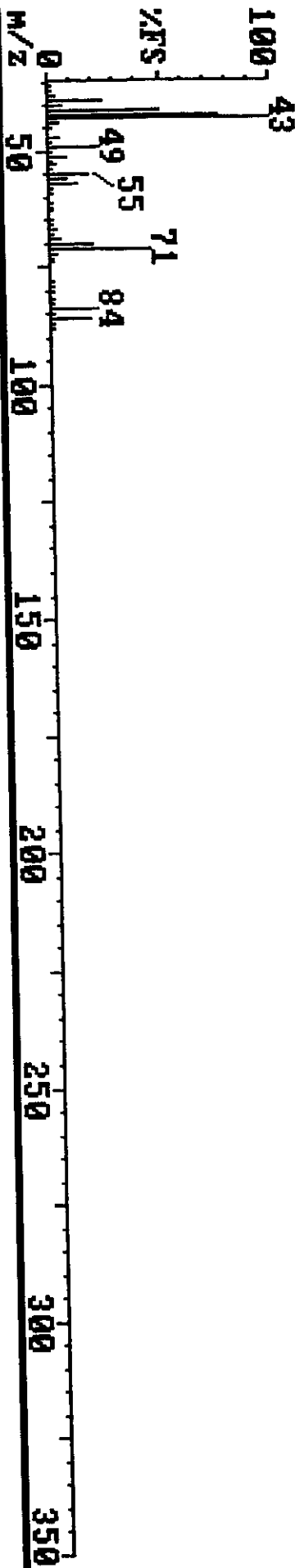
Triangle Laboratories, Inc. (919) 544-5729

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

Instrument H

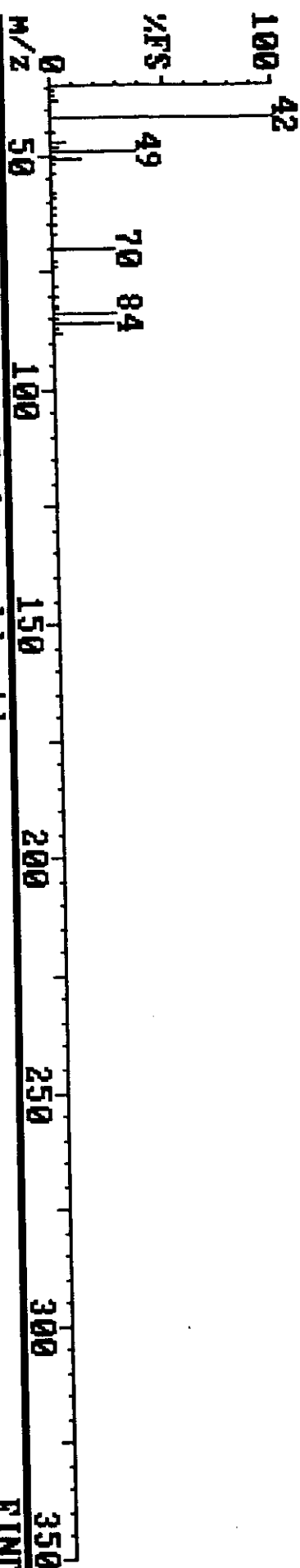
HW713 306 (3.060)

229376



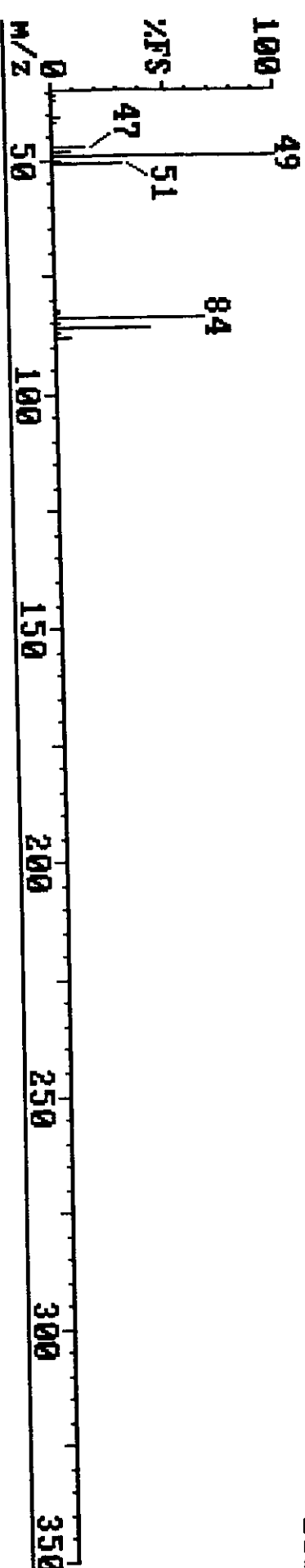
HW713 306 (3.061) REFINE

134144



MASTER 22 (3.590) Methylene chloride

FIND 100



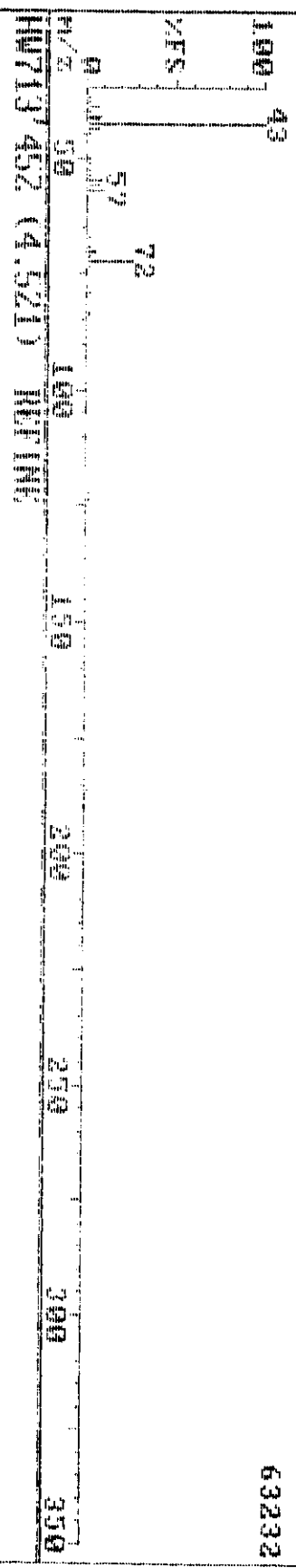
08-11-98 10:06

Tiempo Laboratories, Inc. (019) 644-5720

Sample: T-1-3-A T 21-1-00 T1146297

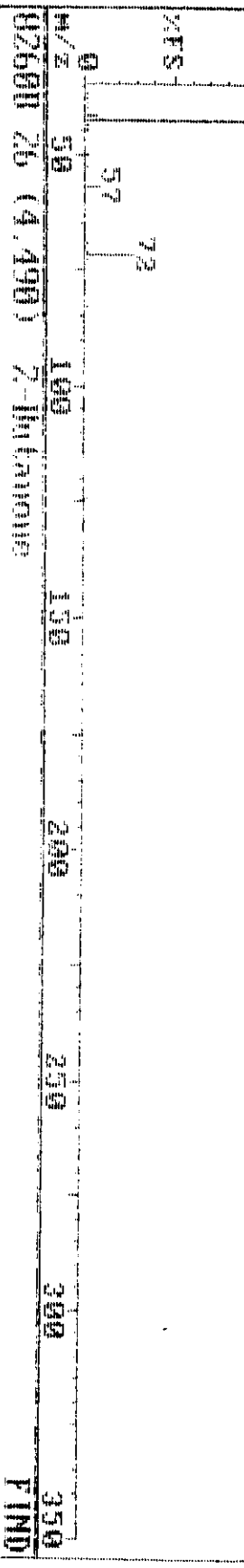
Instrument H

HW713 452 (4.521)



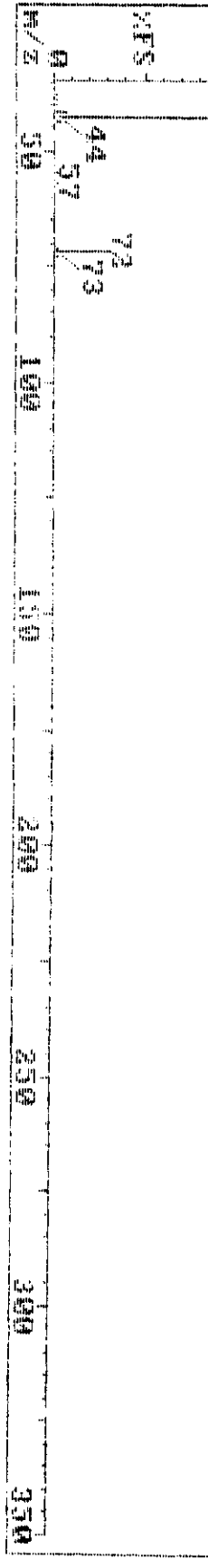
HW713 452 (4.521) HW713

54016



HW713 452 (4.521) HW713

54016



HW713 452 (4.521) HW713

54016

00-19-90 10:06

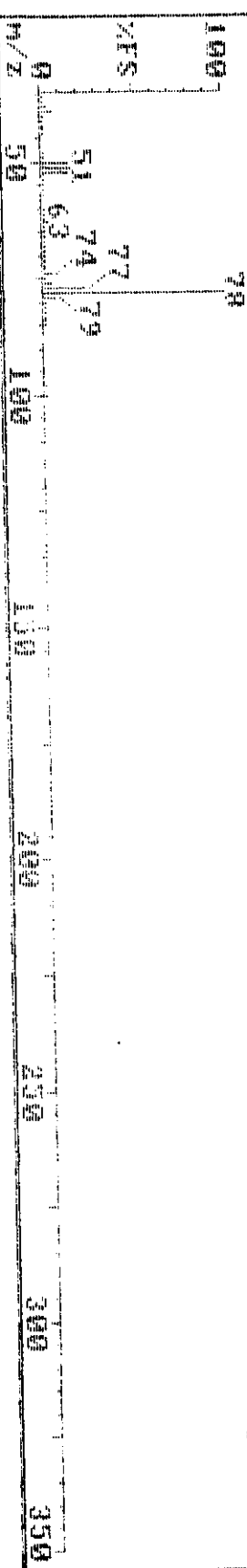
Triawle Laboratories, Inc. (019) 644-5729

Instrument H

Sample: T-U-1-3-0 T 214-1-10 11146707

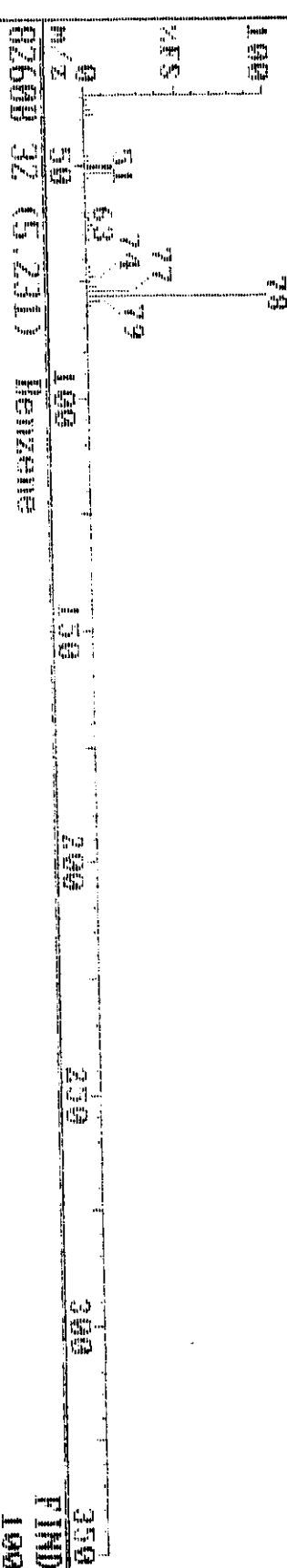
HW713 525 (5.251)

1196032



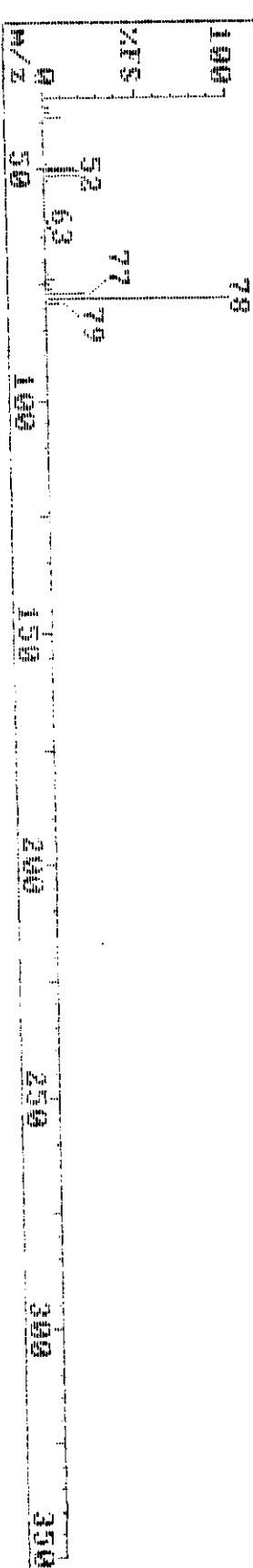
HW713 525 (5.251) REFINE

1130496

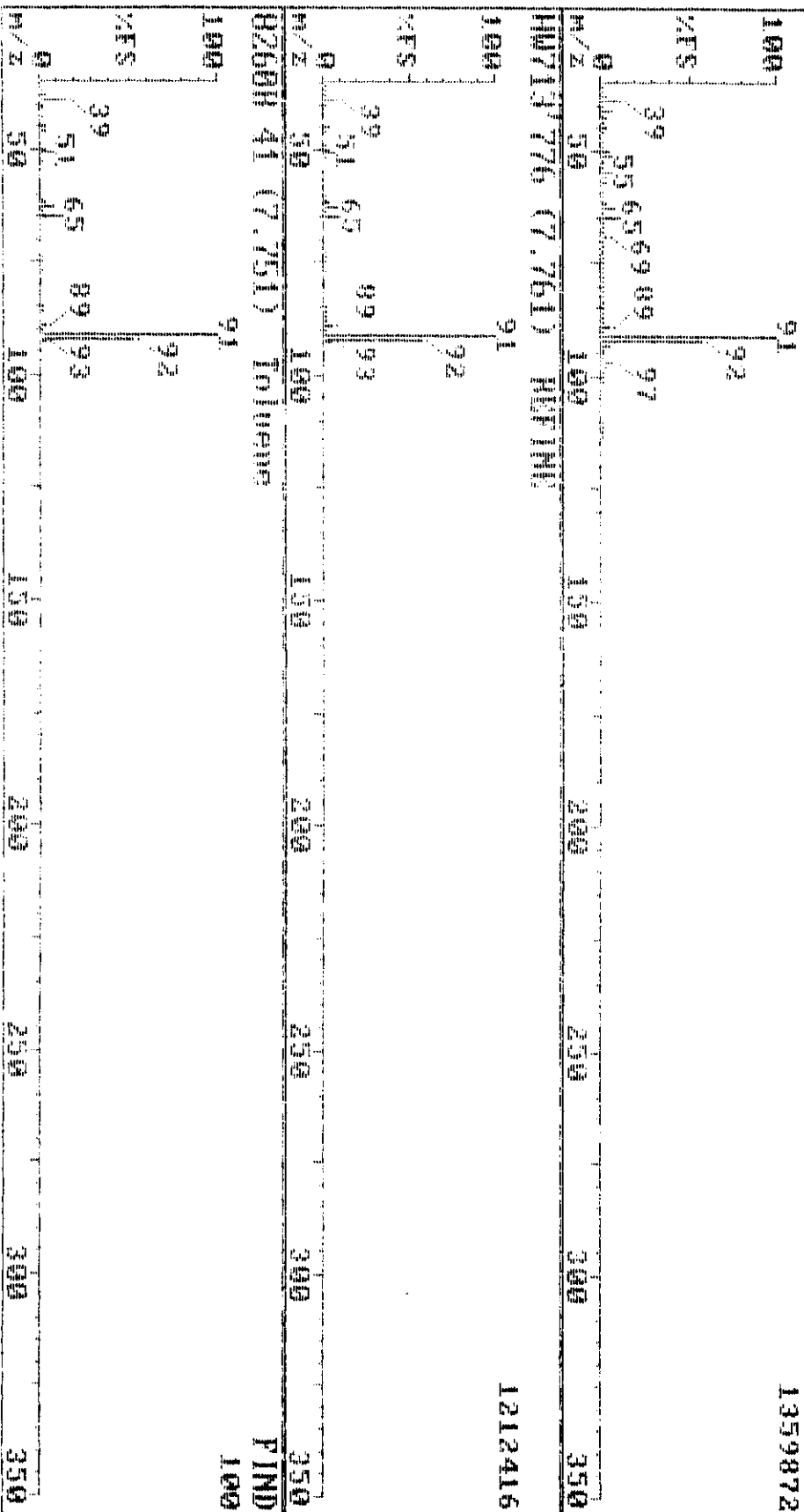


02600 32 (5.231) Benzene

FIND 100



00-19-90 10:06 Triad Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-3-A T 214-140 T1H4027? Instrument H



1359872

1212416

FIND 100

00-10-98 16:06

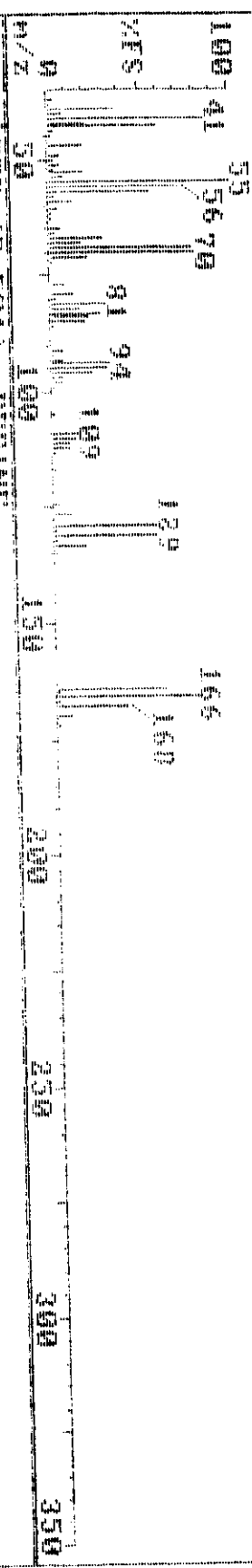
Sample: T-U-13-A T 244-140 HM4027

Trieste Laboratories, Inc. (910) 544-5720

Instrument H

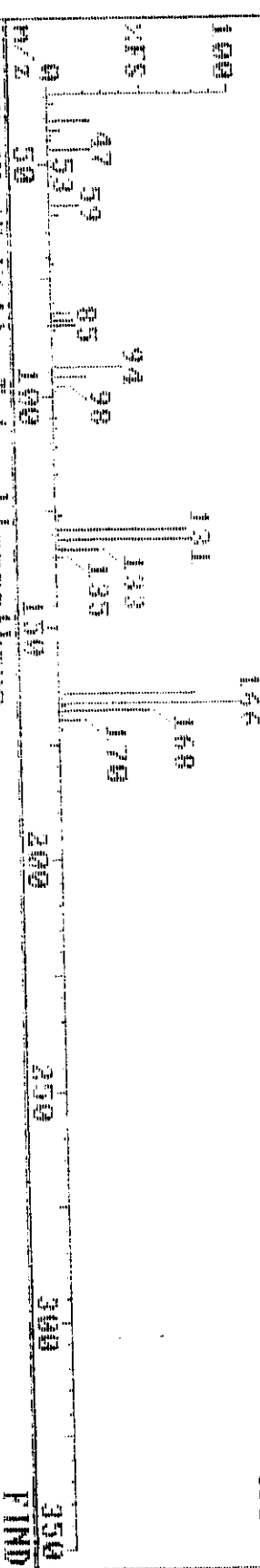
HM713 059 (8.591)

62464



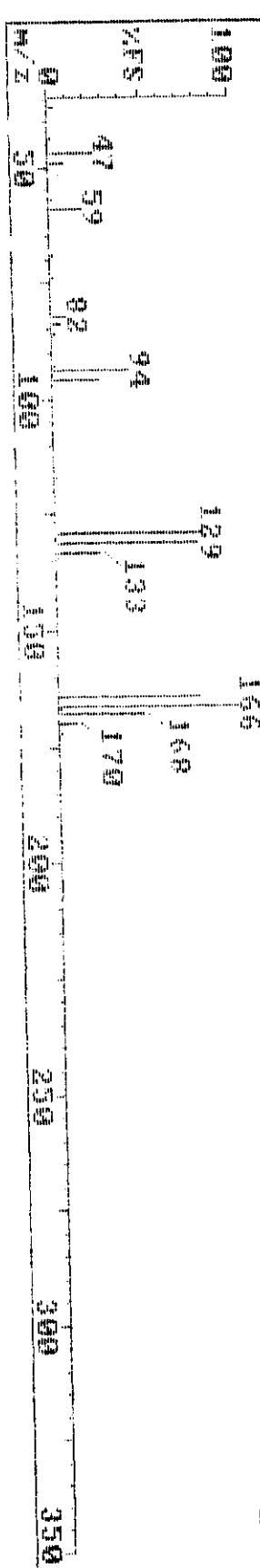
HM713 059 (0.591) HM713

43008



82608 45 (0.561) Tetrahydrofuran

FIND 100



00-19-38 10:06

Trinity Laboratories, Inc. (919) 544-5720

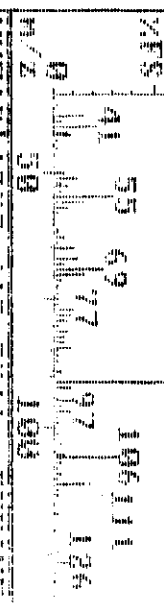
Sample: T-1-3-A 1 244-100 11/10/297

Instrument 11

HM713 1033 (10.331)

91

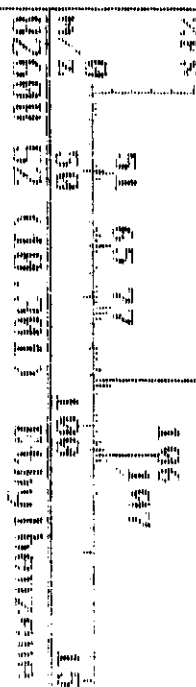
471040



HM713 1033 (10.331) HM713

91

393216



HM713 1033 (10.331) HM713

91

100

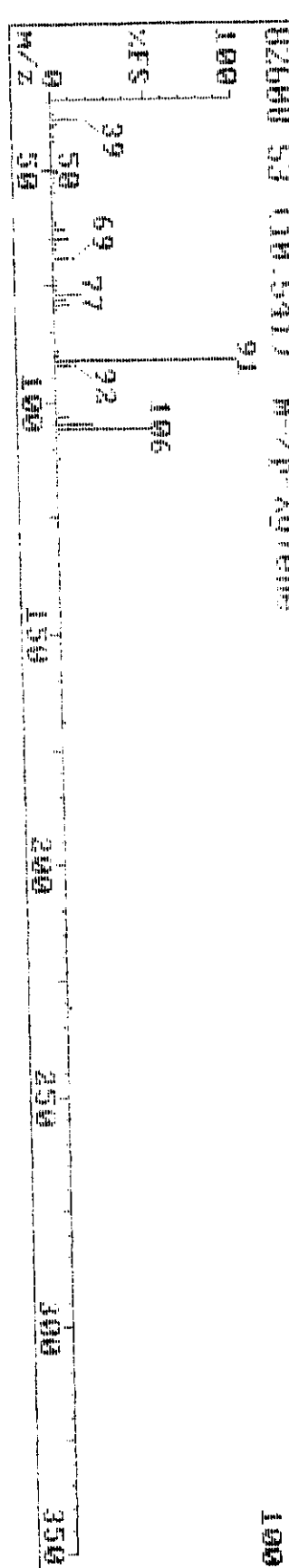
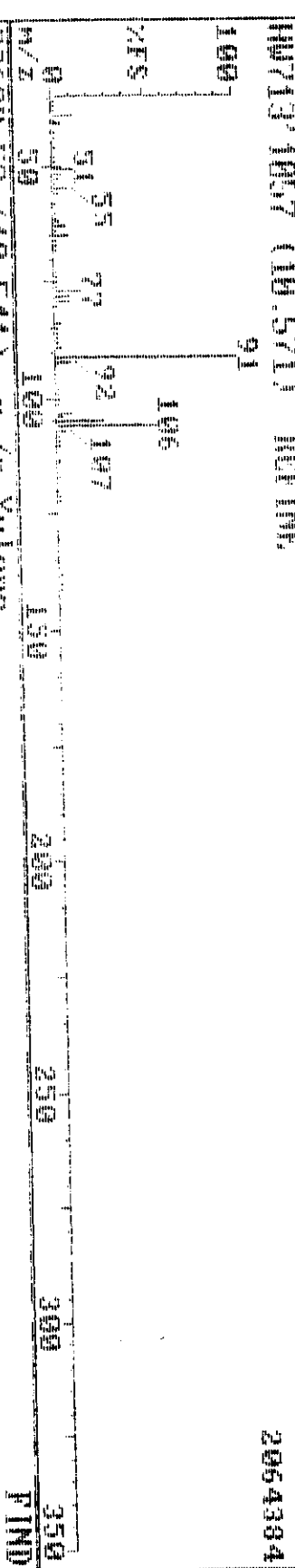
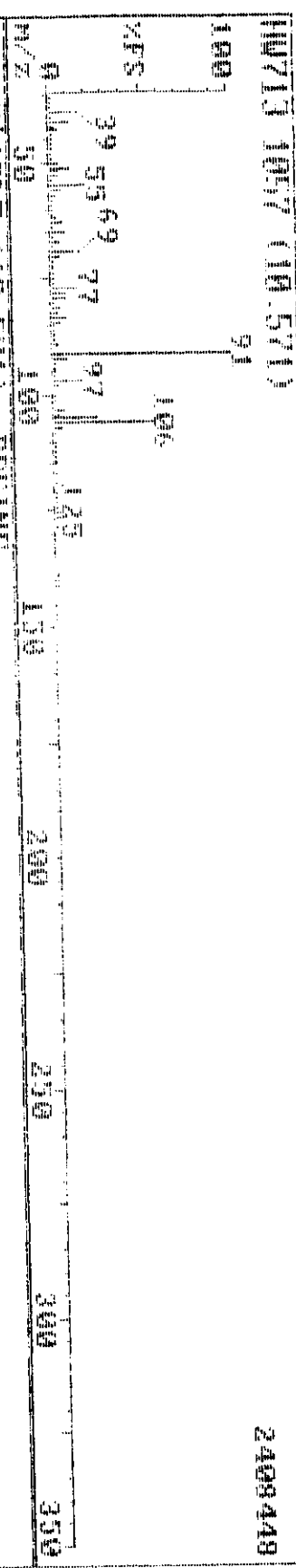


HM713 1033 (10.331) HM713

91

100

60-19-90 10:06 Triumvir Laboratories, Inc. (913) 544-5729
 Sample: T-U-1-3-A 1 214-1-M T1140237 Instrument H



00-13-90 10:00

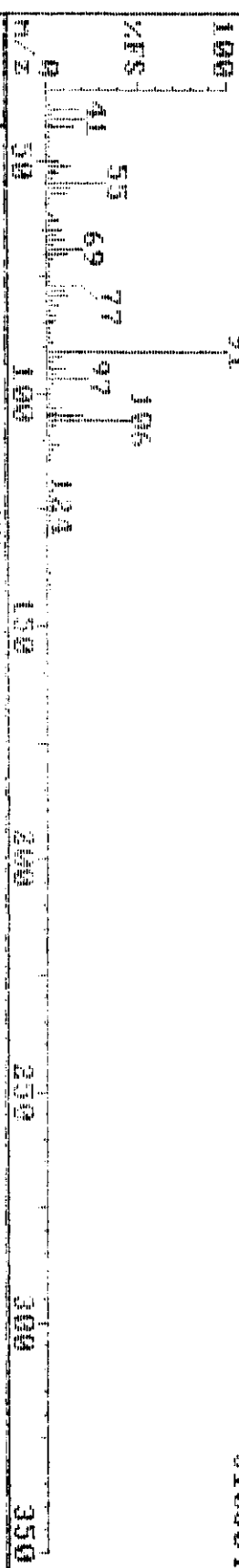
Trienvo Laboratories, Inc. (019) 544-5729

Sample: T-0-1-3 A T 214-1-10 T1146297

Instrument H

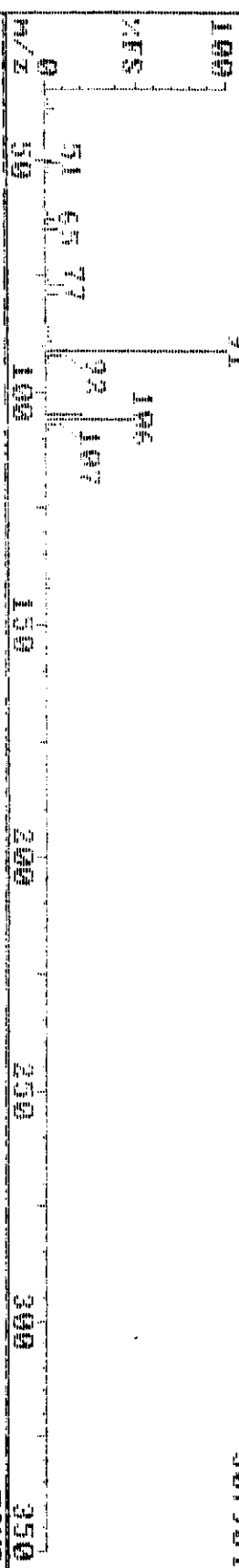
114713 1120 (11.201)

610304



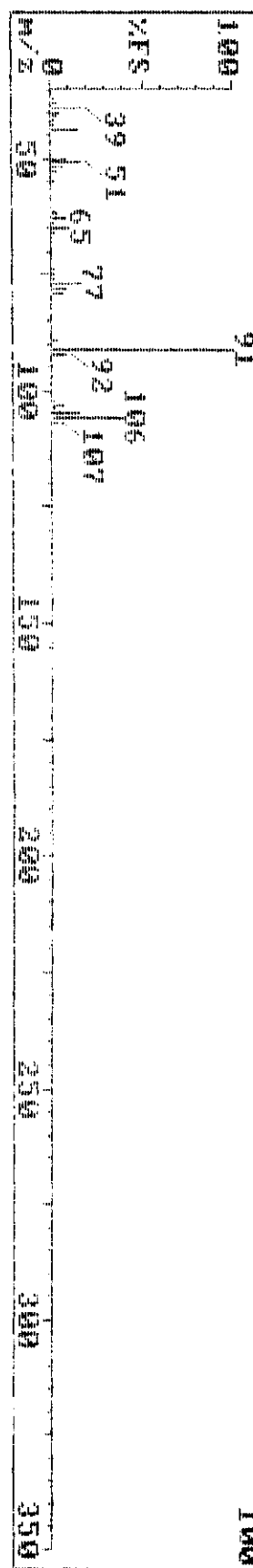
114713 1120 (11.201) 114714

507904



114713 1120 (11.241) 0-Xylene

FIND



08-19-90 10:06

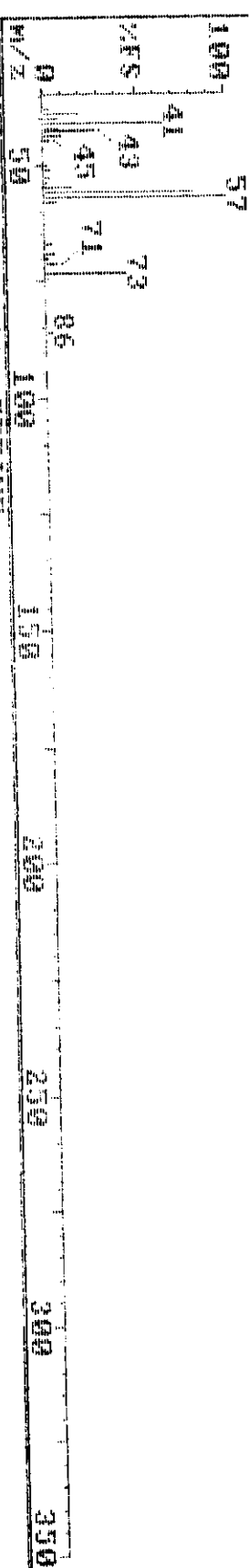
Triangulo Laboratories, Inc. (910) 544-5770

Instrument II

Sample: T U-1-3-A I 214-1-00 TLH6297

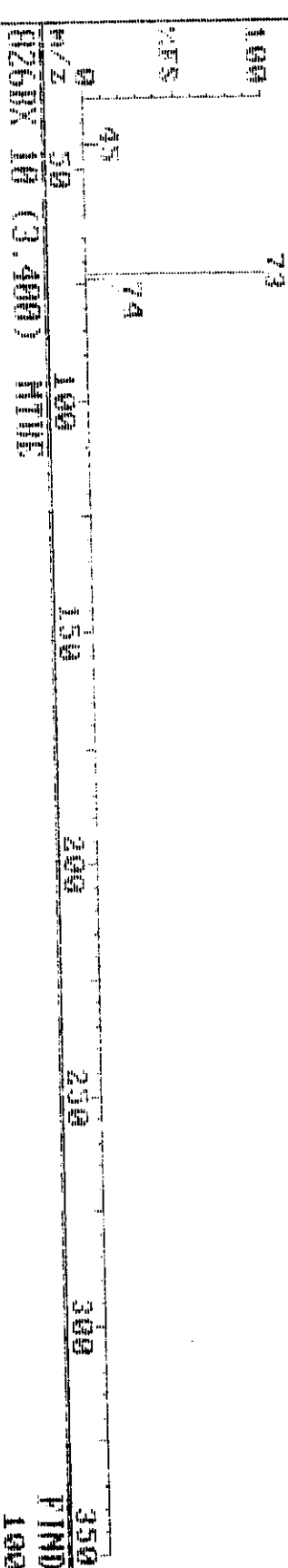
22016

HM713 341 (3.416)



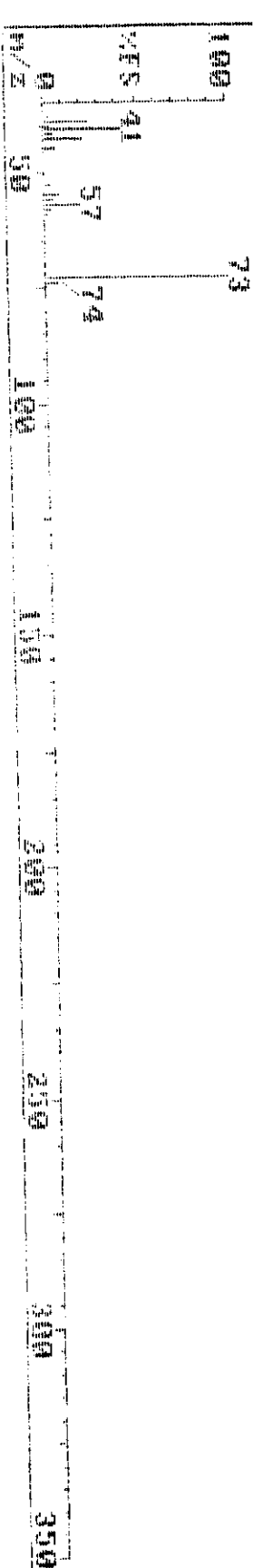
HM713 341 (3.411) HT/HT

73008



HM713 341 (3.400) HT/HT

73008



19-Aug-98 10:06

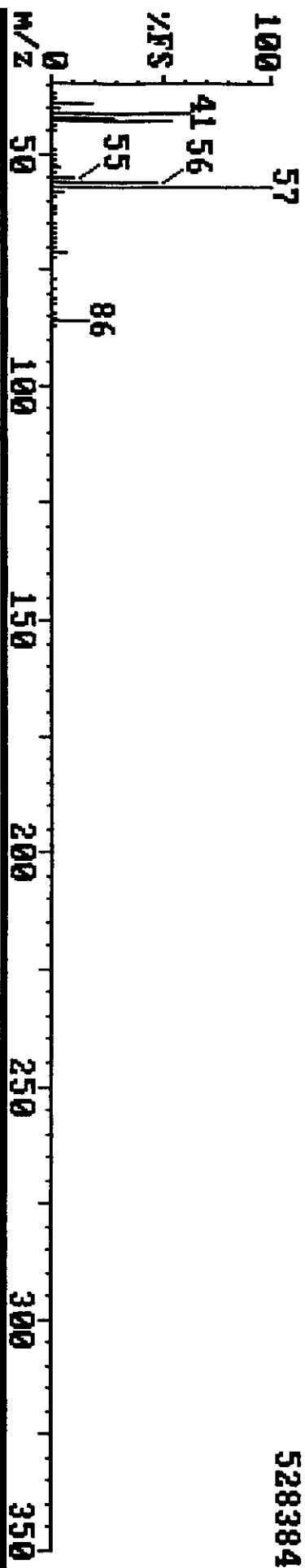
Triangle Laboratories, Inc.

(919) 544-5729

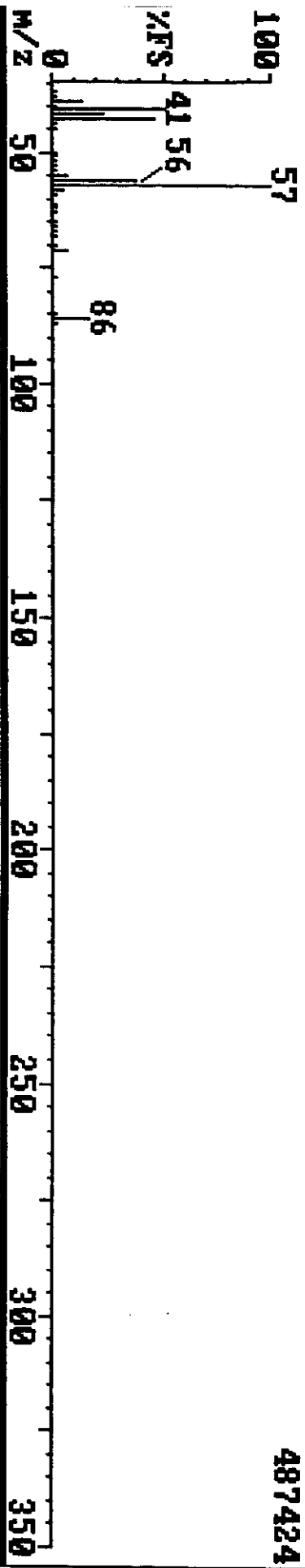
Sample: T-U-1-3-A T 214-1-8A TL1#46297

Instrument H

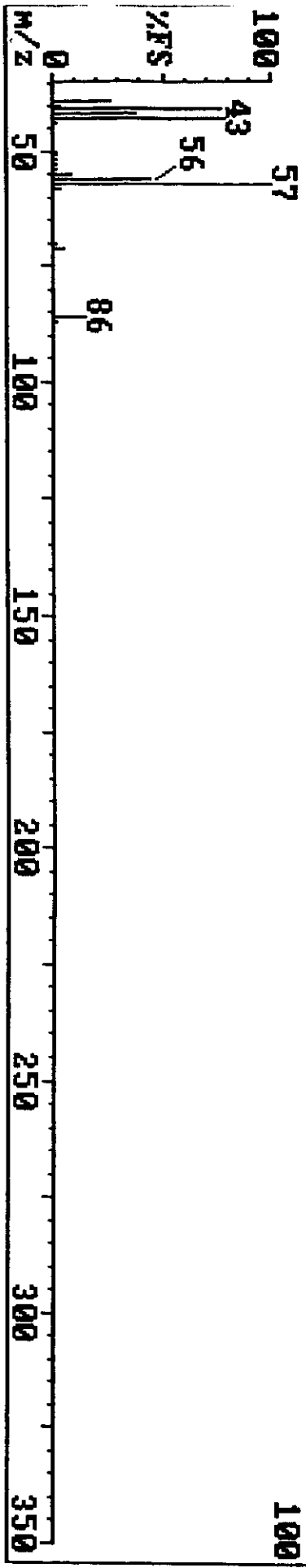
HM713 367 (3.670)



HM713 367 (3.671) REFINE



MASTER 26 (4.240) n-Hexane



FIND

100

487424

528384

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

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: 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		0.005	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 ₅		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 ₄		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

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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: ICALF814

Date Analyzed : 08/17/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.242	5.18	1	97
Toluene-d ₈	0.312	8.00	2	125
4-Bromofluorobenzene	0.284	12.65	2	114

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: 17:44 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

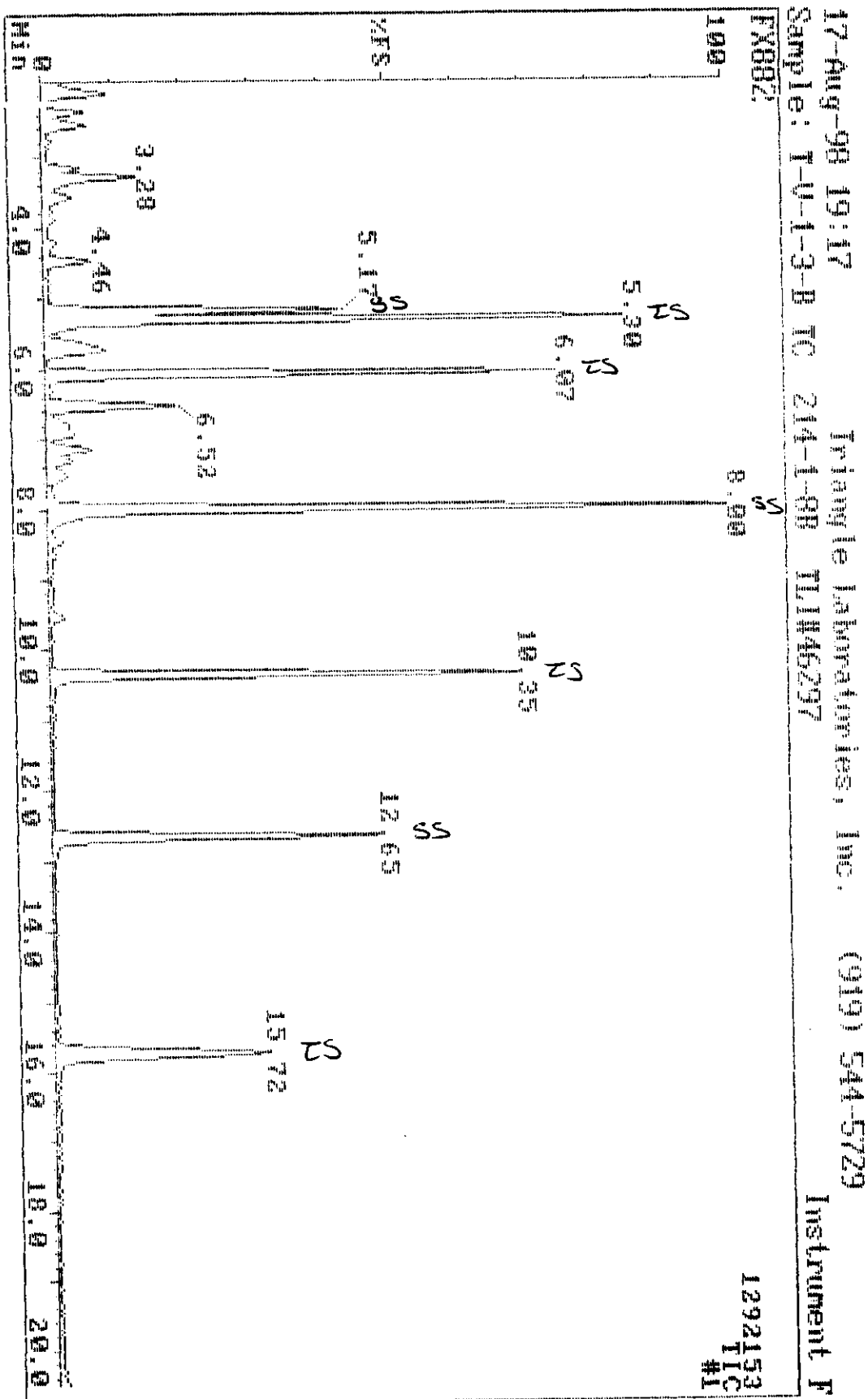
Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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

Savar v3.7

Printed: 18:00 08/24/1998



Data Review: YK
 Date: 8/19/98

No.	MAT	FOR	REV	Delta	Area	P.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	10.131	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	Ortho-bromo fluoromethane
6	100	92	97	1	3367004	bv	3.001	98	Toluene-d8
7	100	91	93	0	1021344	bv	12.651	95	4-Bromo fluorobenzene
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	1.640	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-Dichloroethane
15	0	0	0	0	0		0.000	112	Iodomethane
16	72	53	65	-1	55396	bb	2.780	70	Carbon disulfide
17	71	25	88	0	36296	A	2.813	45	Acetone
18	0	0	0	0	0		0.000	41	Allyl chloride
19	0	0	0	0	0		0.000	84	Acetylene chloride
20	0	1	2	-2	58114		2.411	75	Acrylonitrile
21	0	0	0	0	0		0.000	96	trans-1,2-Dichloroethene
22	0	0	0	0	0		0.000	61	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-Dichloroethene
26	13	16	20	8	2552	bv	1.001	70	2-Butanone
27	0	0	0	0	0		0.000	43	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	33	3	64	4	18290	A	3.001	70	4-Methyl-2-pentanone
41	70	42	73	-1	41356	bb	8.081	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

6344 sm

326

MSTH

FP

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	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	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	113	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	bb	19.572	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	77	99	1	2565532	bv	5.301	168 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	49884	vv	1.260	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106 Vinyl bromide
10	79	60	70	2	22983	A	3.610	73 MTBE
11	83	64	69	0	17868	bv	3.880	57 n-Hexane
12	59	42	62	6	83004	A	4.450	42 1,2-Epoxybutane
13	86	64	76	-1	167952	bb	5.671	57 Iso-Octane
14	44	28	69	-13	286760	bv	5.521	55 Ethyl acrylate

ML 8/19/98

17-Aug-98 19:17

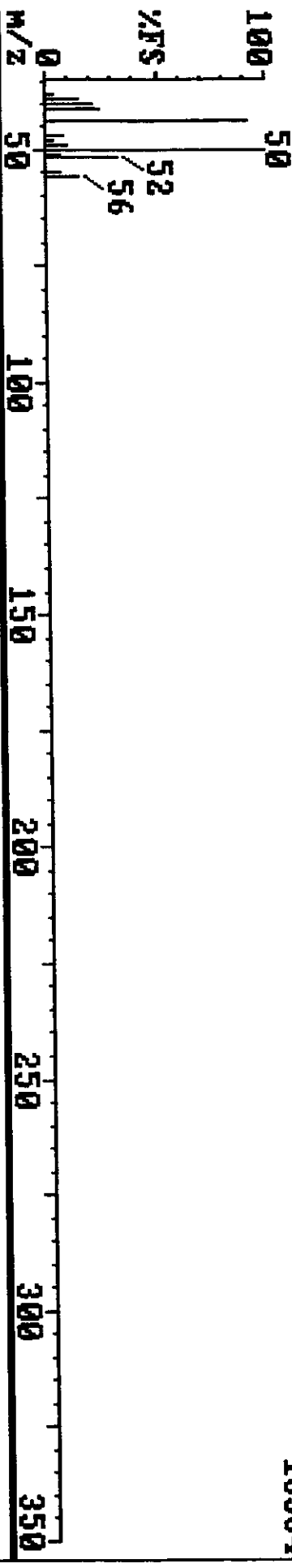
Triangle Laboratories, Inc. (919) 544-5729

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

Instrument F

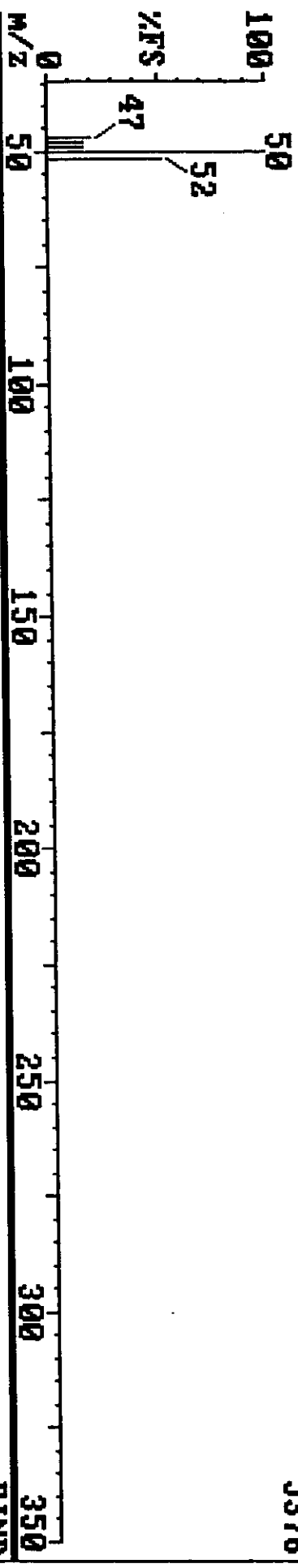
FX882 108 (1.080)

16384



FX882 108 (1.081) REFINE

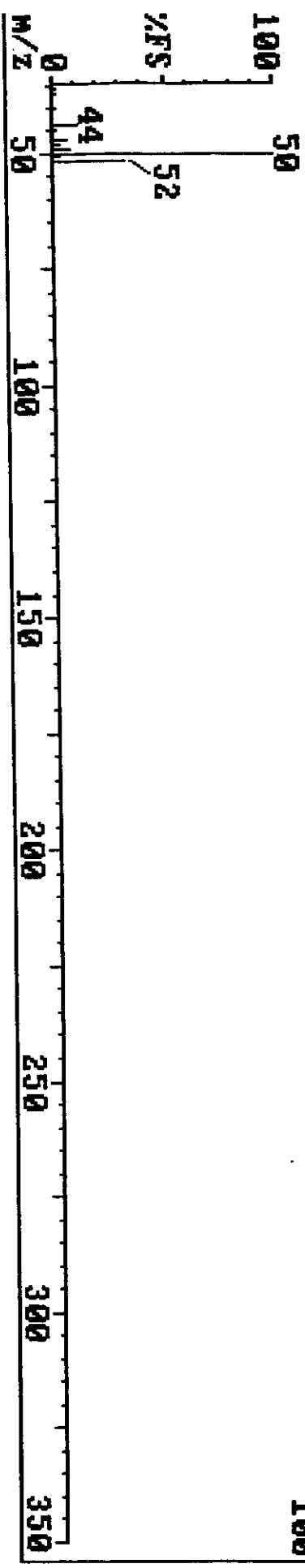
5376



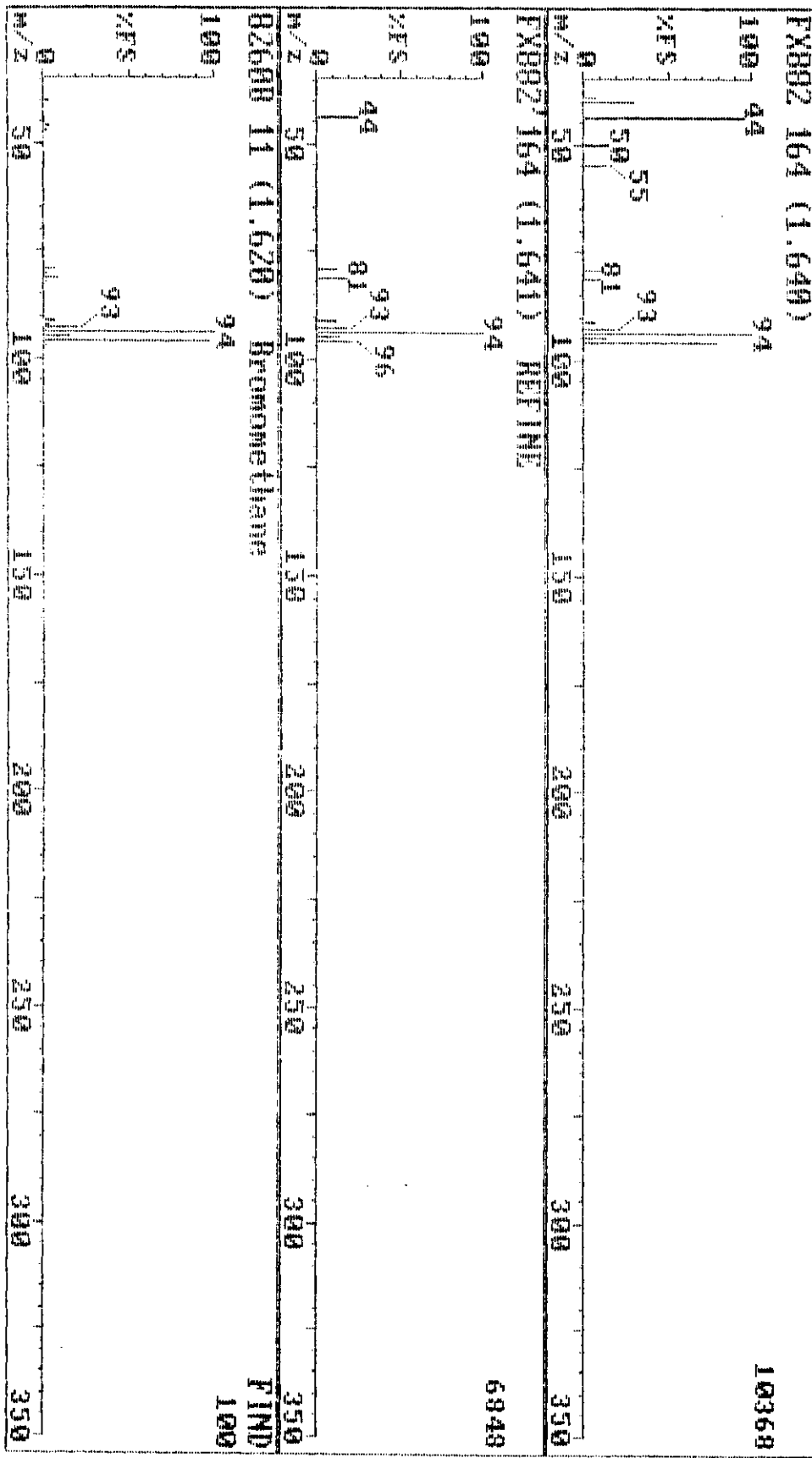
8260 9 (1.230) Chloromethane

FIND

100



17-Aug-98 19:17 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-3-B TC 244-1-00 11446297 Instrument F



17-Aug-98 10:17

Triang Laboratories, Inc.

(919) 544-5729

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

Instrument F

FX882 276 (2.760)

76

9856

100

44

%FS

m/z

50

100

150

200

250

300

350

FX882 276 (2.761) HEPTANE

76

9536

100

%FS

m/z

50

100

150

200

250

300

350

8260H 16 (2.770) Carbon disulfide

76

FIND 100

100

%FS

m/z

50

100

150

200

250

300

350

44

78

127

141

17-Aug-98 19:17

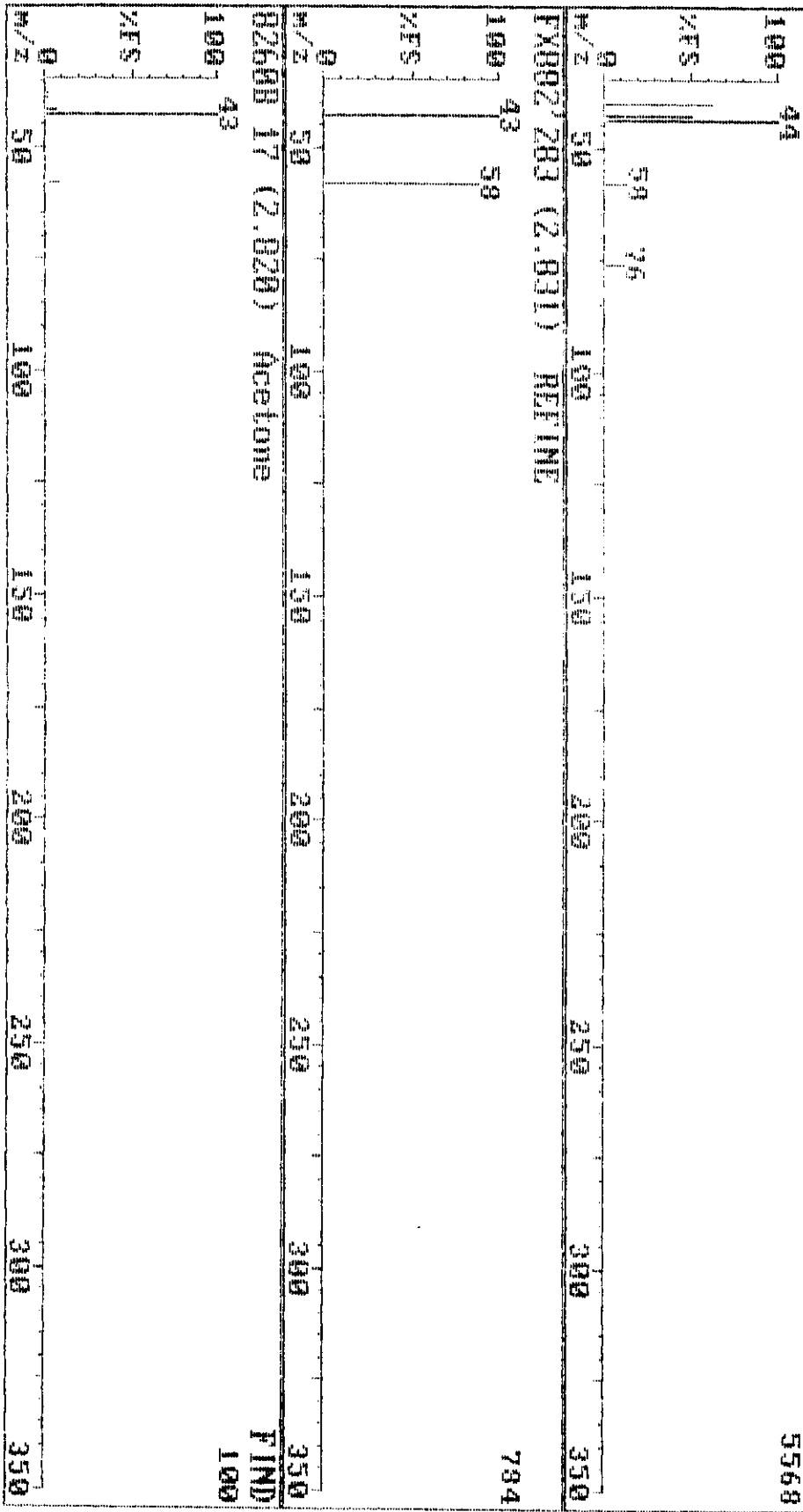
Triang Laboratories, Inc.

(919) 544-5729

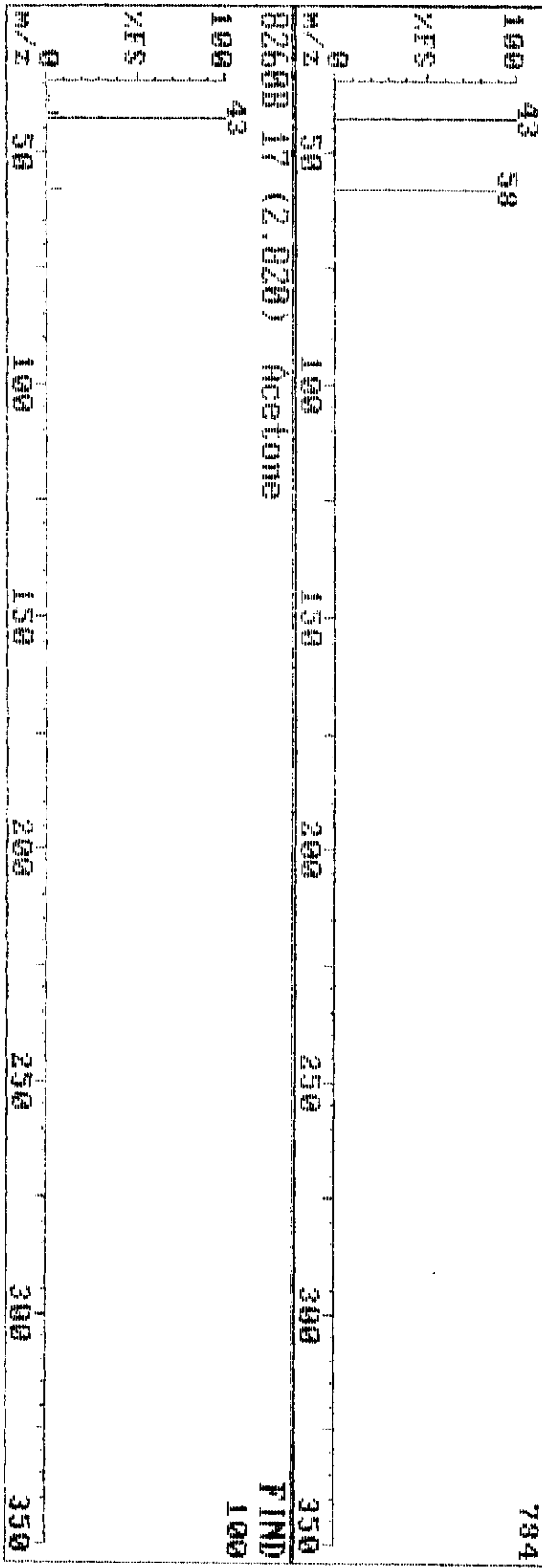
Sample: T-U-1-3-B TC 214-1-8B T11446297

Instrument F

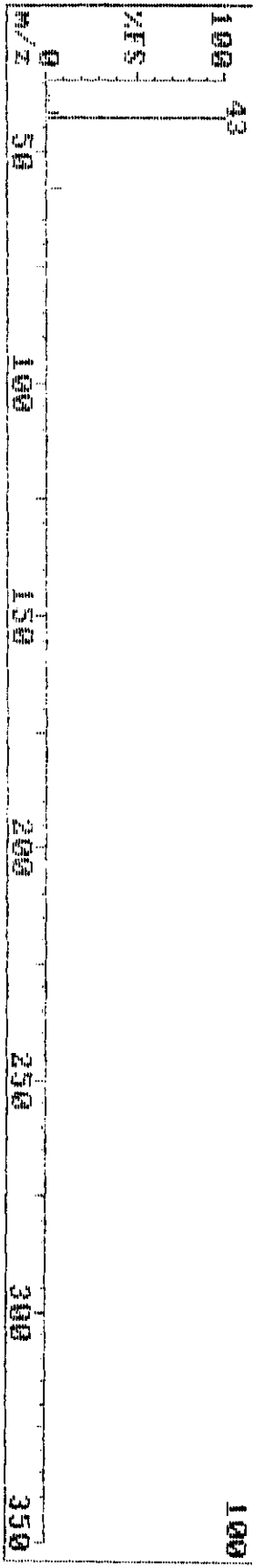
FX002 283 (2.830)



FX002 283 (2.831) REFINE



02600 17 (2.020) Acetone



FIND

7-Aug-98 19:17

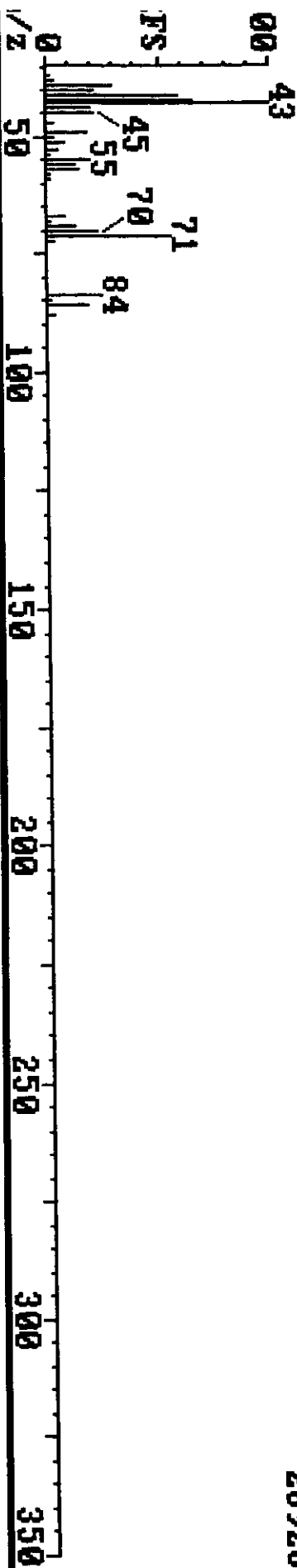
Triangle Laboratories, Inc. (919) 544-5729

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

Instrument F

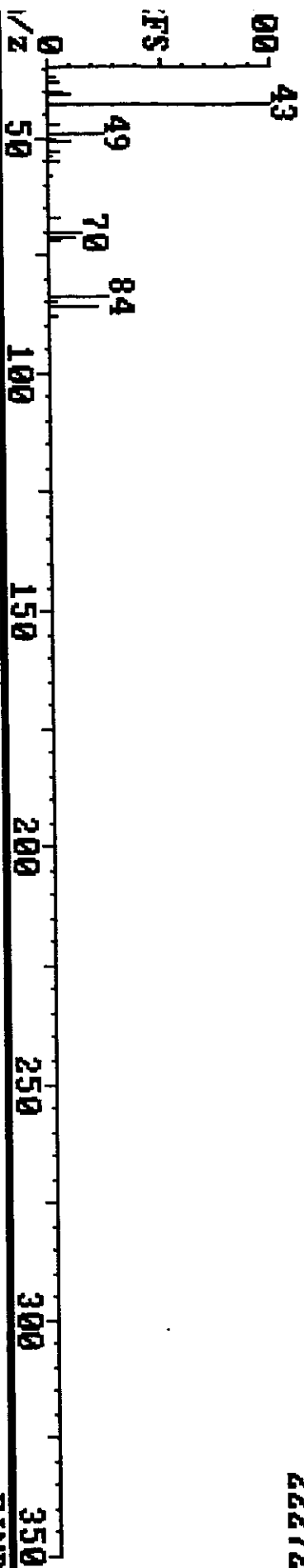
X882 326 (3.260)

28928



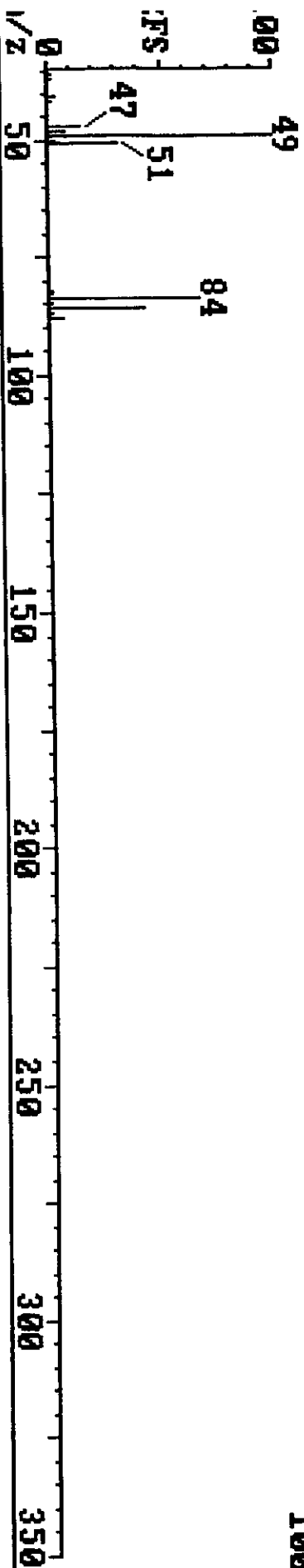
X882 326 (3.261) REFINE

22272

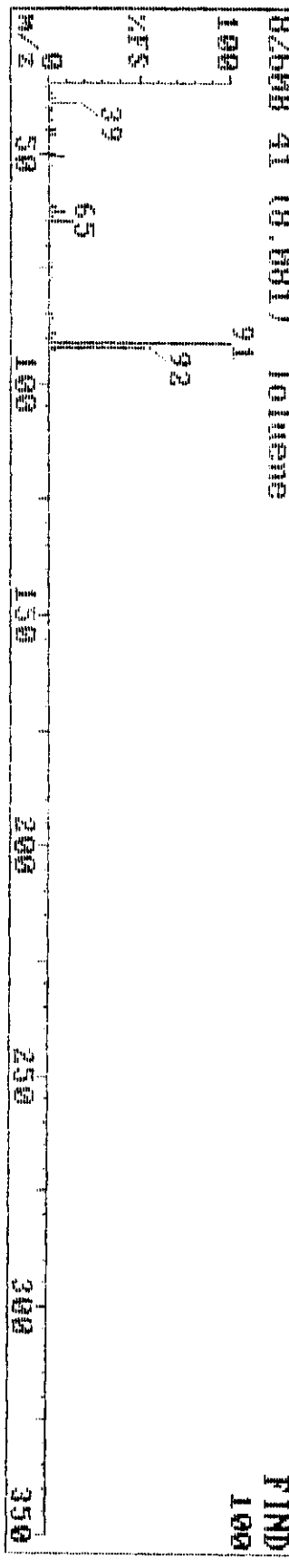
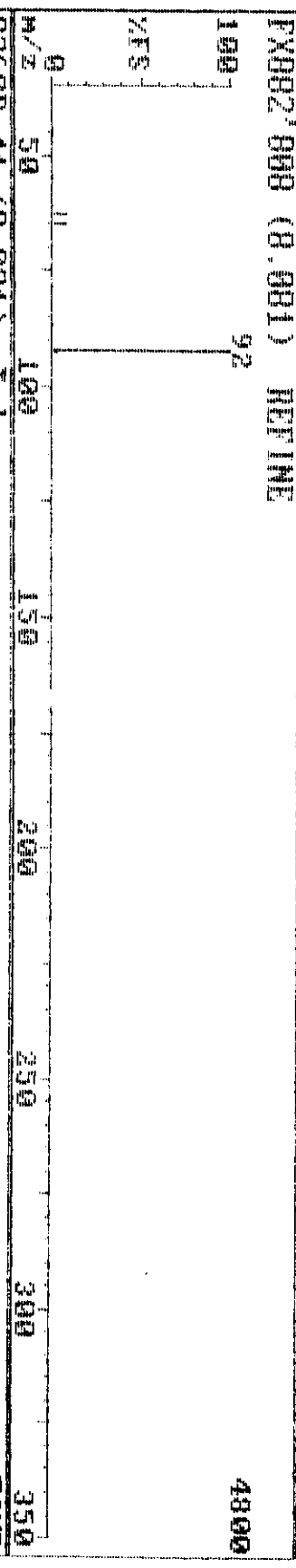
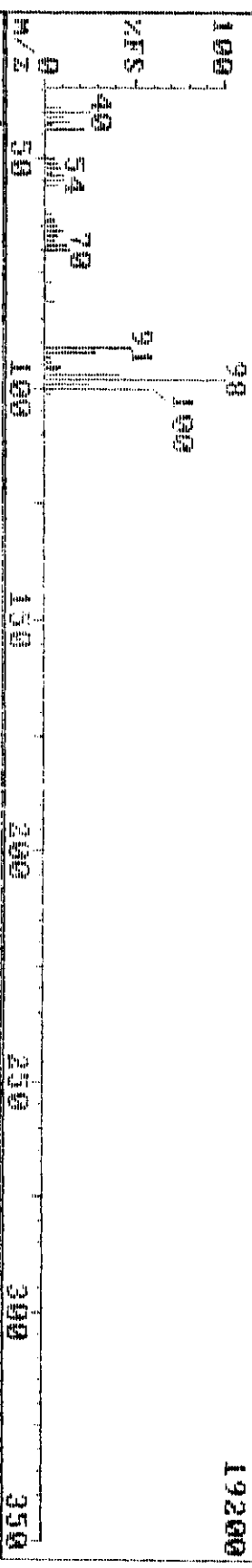


MASTER 22 (3.590) Methylene chloride

FIND
100



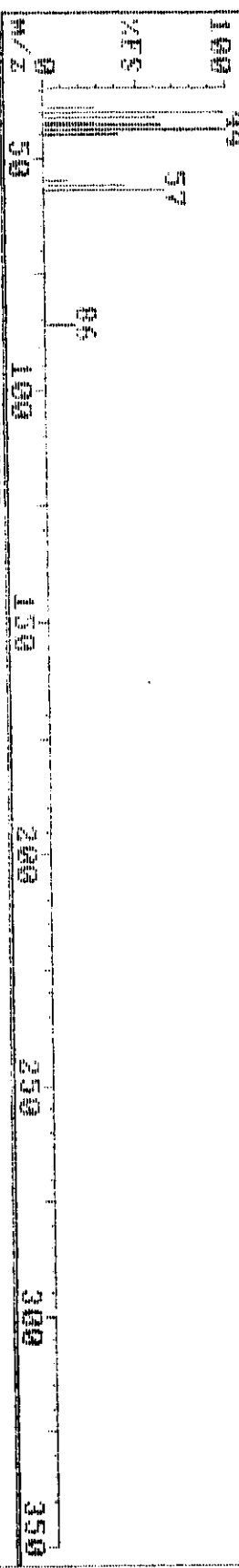
17-Aug-98 19:17 Triangy Laboratories, Inc. (919) 544-5729
 Sample: T-V-1-3-B TC Z14-1-08 T1146297 Instrument F



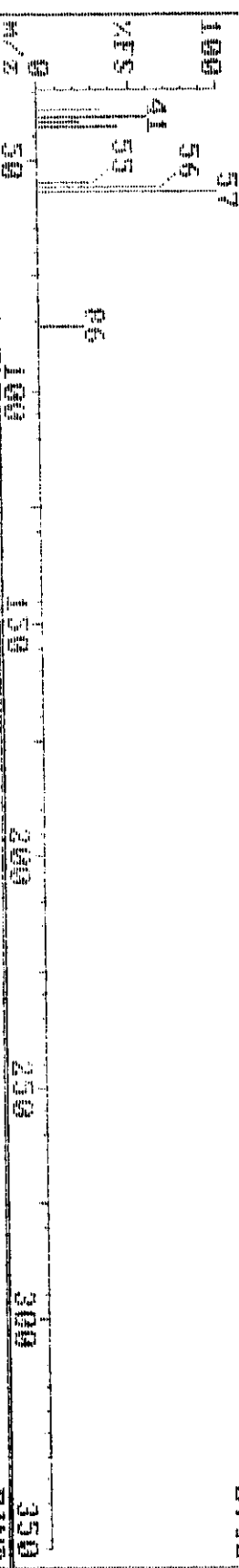
17-Aug-90 19:47 Triangle Laboratories, Inc. (919) 544-5729 Instrument F

Sample: T-U-1-3-B TC 214-1-90 T11446297

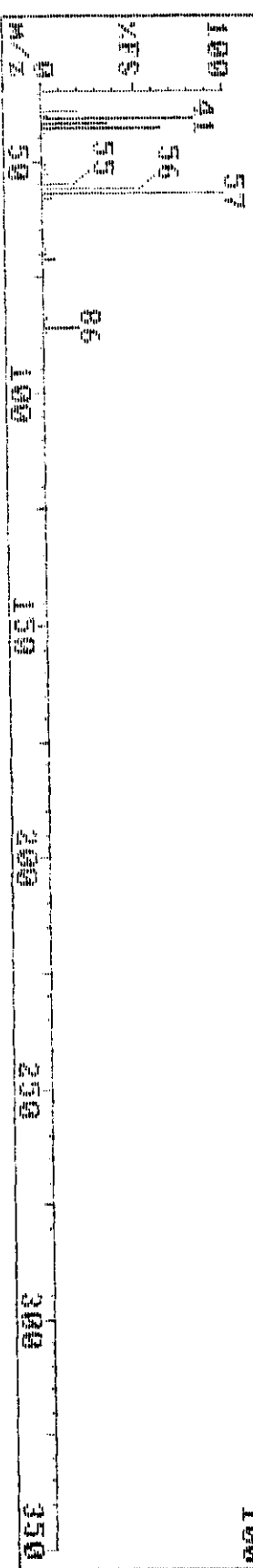
FX002 300 (3.800) 4160



FX002 300 (3.881) REFINE 2752



026BX 11 (3.878) 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

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: 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 ₅		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 ₄		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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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: ICALF814

Date Analyzed : 08/17/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.240	5.18	1	96
Toluene-d ₈	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

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: 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

Triangle Laboratories, Inc.

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Savar v3.7

Printed: 18:00 08/24/1998

17-Aug-99 10:30

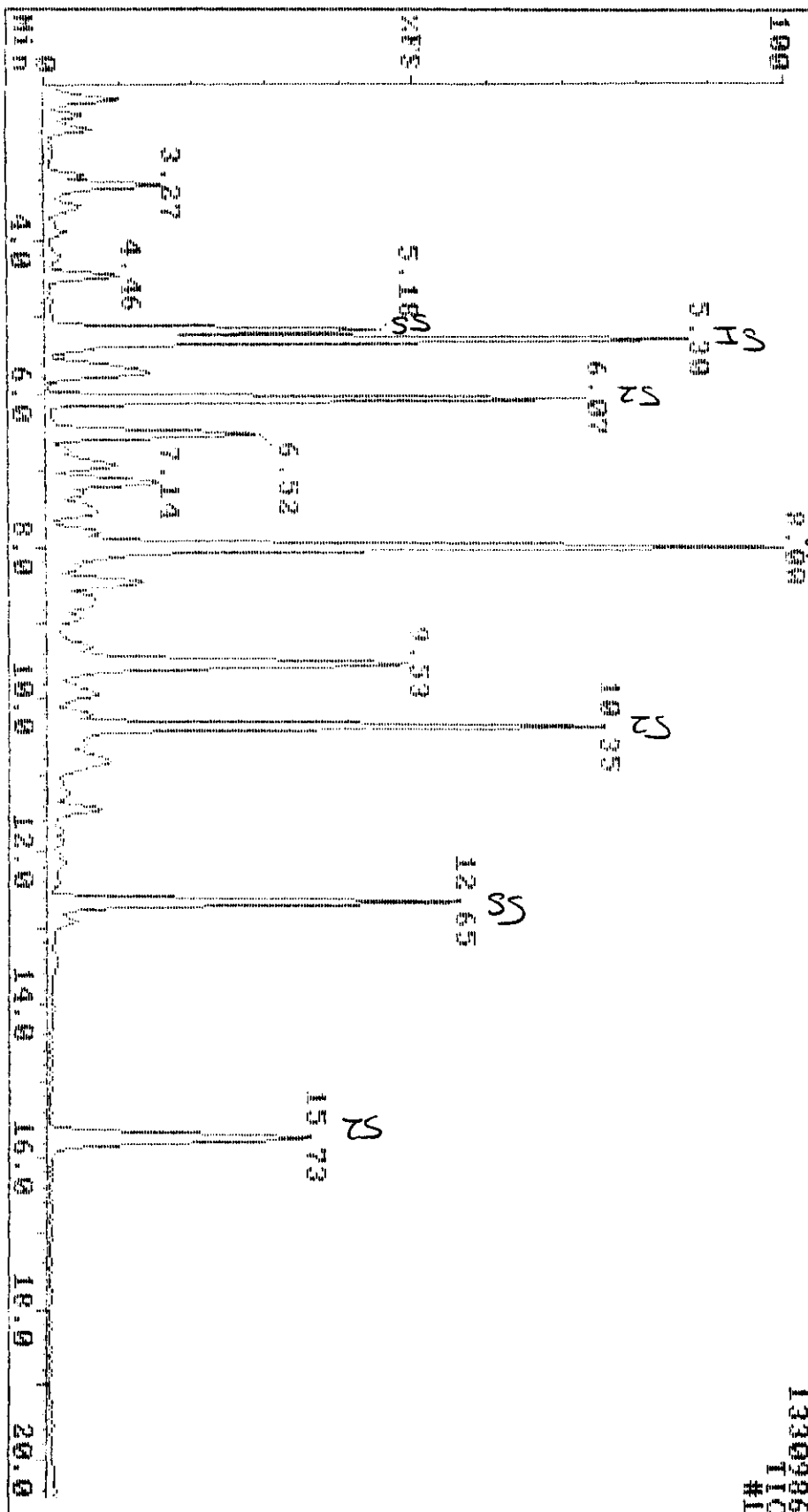
TriAnaly Laboratories, Inc.

(919) 544-5729

Sample: T-V-1-4-B TO 214-1-9B UH46297

Instrument F

FX801



1330986
TIC
#1

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

No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	76	98	2	2628780	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	92	-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 Dichlorodifluoromethane
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 Trichlorodifluoromethane
14	0	0	0	0	0		0.000	76 1,1-Dichloroethane
15	0	0	0	0	0		0.000	142 Isobutane
16	0	0	0	0	0		0.000	56 Carbon disulfide
17	86	25	38	3	64650	A	2.860	45 Acetone
18	0	0	0	0	0		0.000	41 Methyl methacrylate
19	0	0	0	0	118388	m	3.27	34 Methylcyclohexanone
20	10	4	13	0	0		0.000	50 Acetophenone
21	0	0	0	0	0		0.000	55 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.000	63 1,1,2-Trichloroethane
23	0	0	0	0	0		0.000	43 Vinyl acetate
24	0	0	0	0	0		0.000	77 2,2-Difluoropropene
25	0	0	0	0	0		0.000	76 cis-1,3-Dichloropropene
26	20	16	21	6	9785		1.722	45 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	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	159 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	3212	bv	8.001	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: *W*
Date: 8/19/98

No.	MAF	FOR	REF	Net 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	33	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	14094			12.45	FP	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-1-chloropropane
76	0	0	0	0	0			0.000	130	1,2,4-Trichlorobenzene
77	48	25	61	-4	8504	bb		12.572		Hexachlorocyclohexene
78	0	0	0	0	0			0.000	128	Naphthalene
79	0	0	0	0	0			0.000	130	1,2,3-Trichlorobenzene

modified

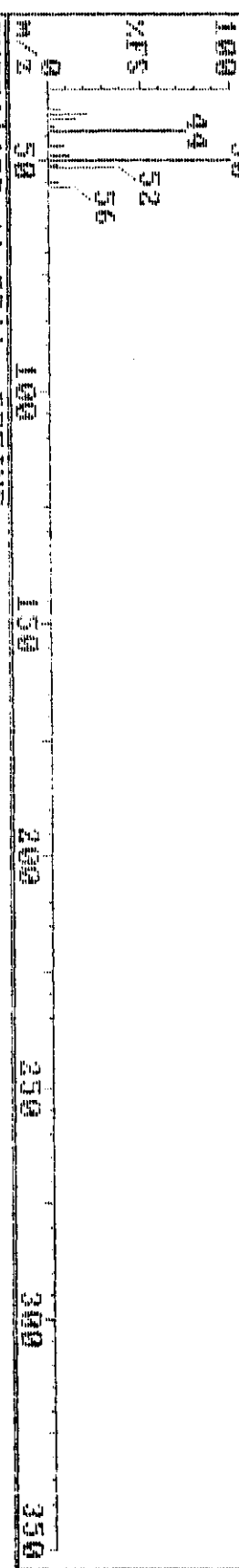
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.000	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.000	106	Ethylbenzene
53	0	0	0	0	0		0.000	106	m-/p-Xylene
54	0	0	0	0	0		0.000	106	o-Xylene
55	0	0	0	0	0		0.000	104	Styrene
56	0	0	0	0	0		0.000	173	Bromoform
57	0	0	0	0	0		0.000	105	Cumene
58	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	6630	11	12.781	FP	75 trans-1,4-Dichloro-2-butene
63	0	0	0	0	0	MS1748	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	25944	bb	1.360	FP	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	81	61	75	3	32632	bb	3.625	FP	73 MTBE
11	100	81	83	0	50692	bb	3.880	37	n-Hexane
12	56	38	61	6	42092	bv	4.460	FP	42 1,2-Epoxybutane
13	87	65	76	0	285728	bb	5.691	FP	57 Iso-Octane
14	41	28	70	-13	459288	bb	6.921	FP	55 Ethyl acrylate

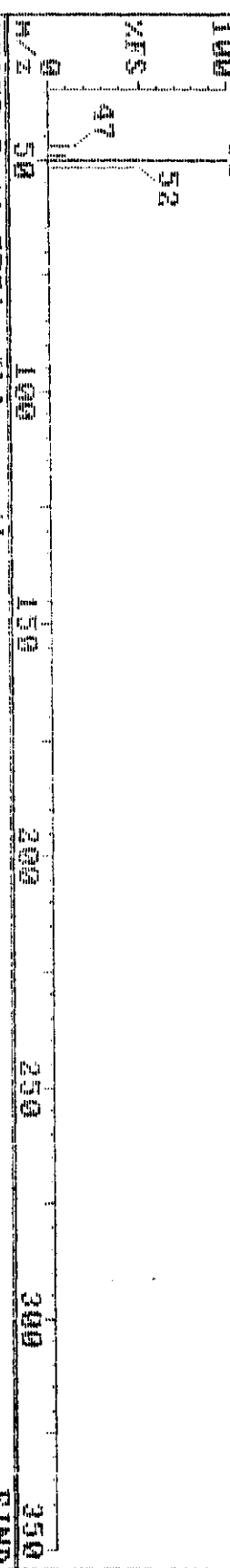
M819/98

17-Aug-98 18:38 Triangis Laboratories, Inc. (919) 544-5729 Instrument F
 Sample: T-U-1-4-B TC 214-1-9B T11446297

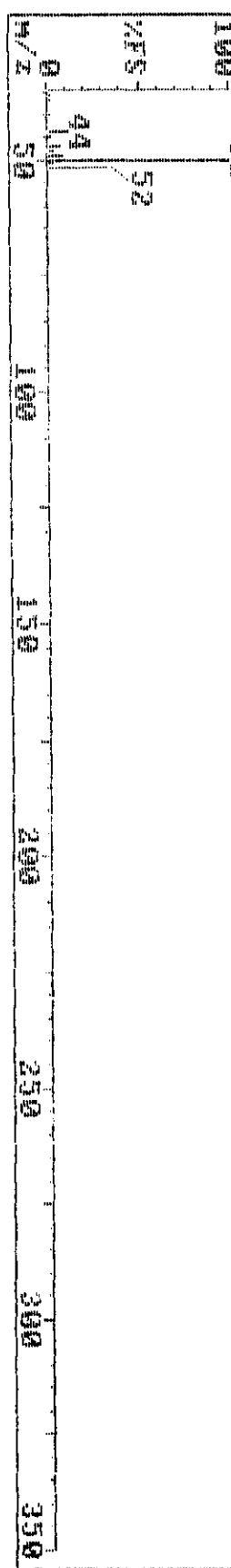
FX981 108 (1.080) 17920



FX981 108 (1.081) NEFINE 9344



82608 9 (1.070) Chloromethane FIND 100



17-Aug-90 10:30

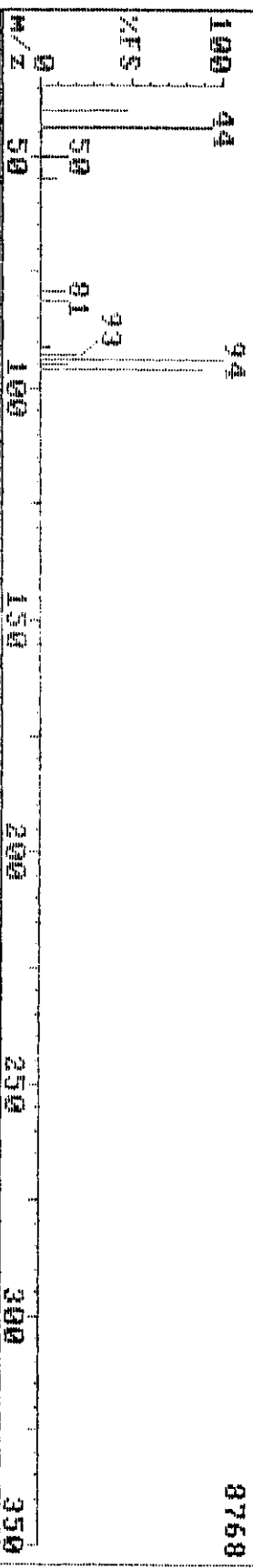
Triangle Laboratories, Inc.

(919) 544-5729

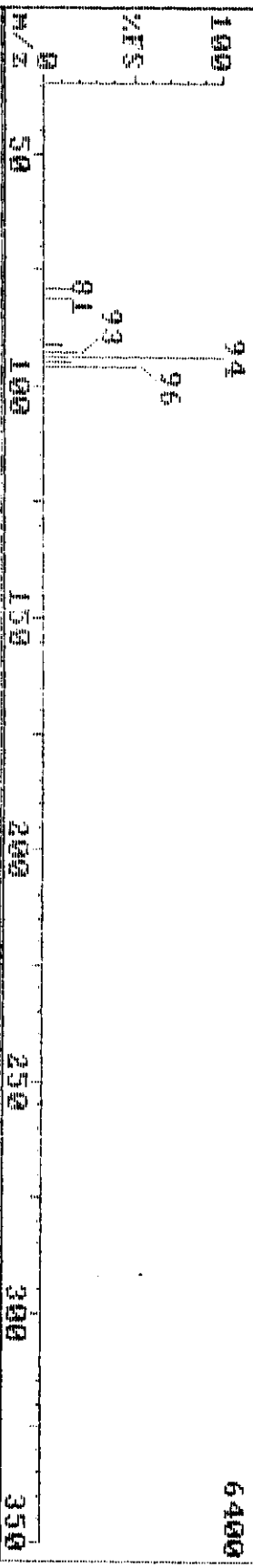
Sample: T-U-1-4-B TO 214-1-9B T1146297

Instrument F

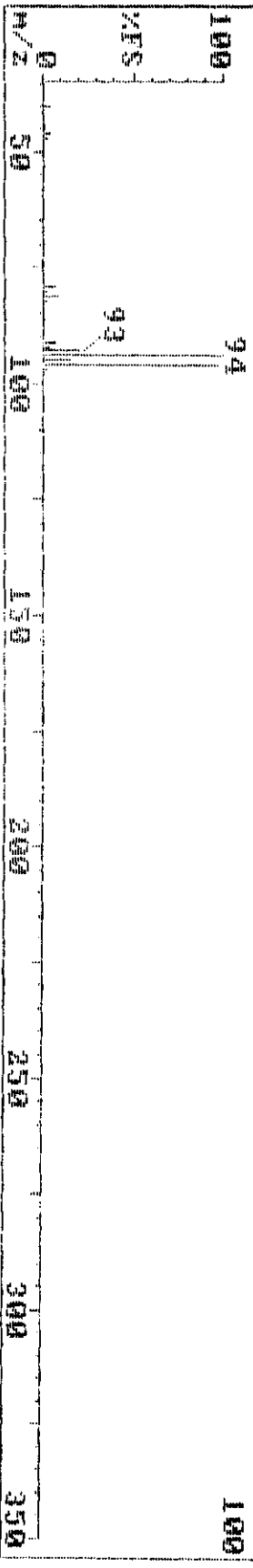
FXB81 164 (1.640)



FXB81 164 (1.641) REFINE



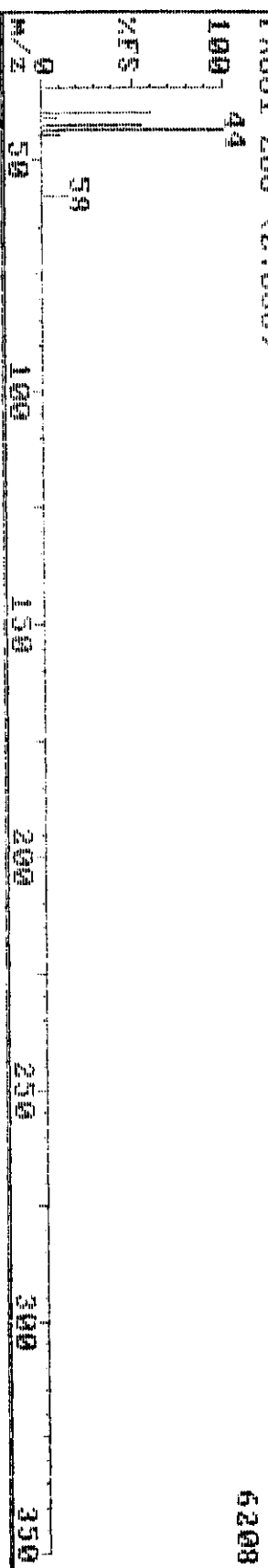
B2608 11 (1.620) Bromomethane



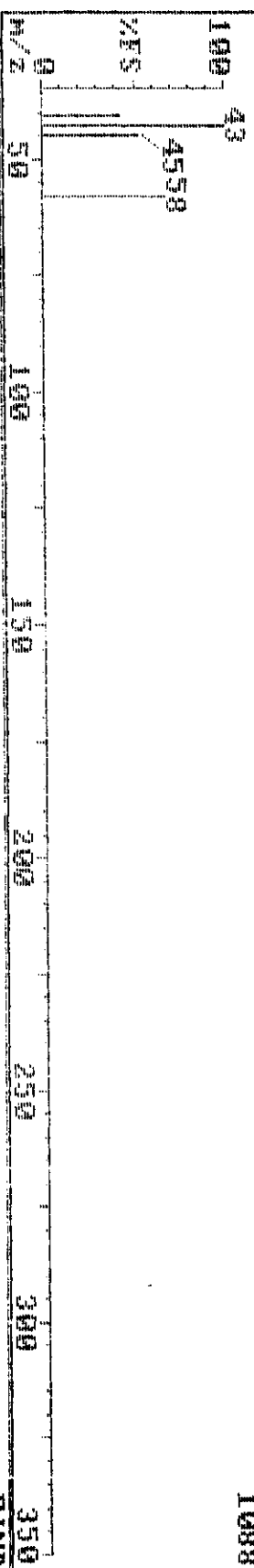
FIND

17-Aug-98 18:30 Triangl e Laboratories, Inc. (919) 544-5729
 Sample: T-U-1-4-B TO 214-1-9H TLH46297 Instrument F

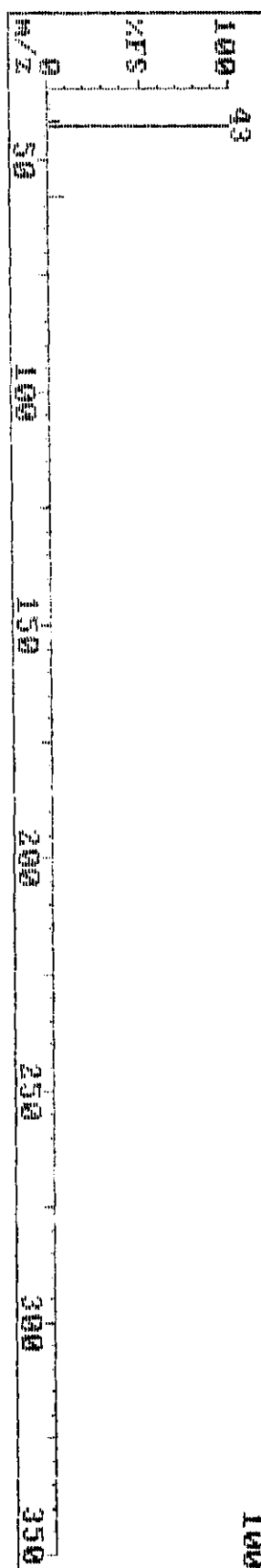
FX881 286 (2.860)



FX881 286 (2.861) HEPTANE

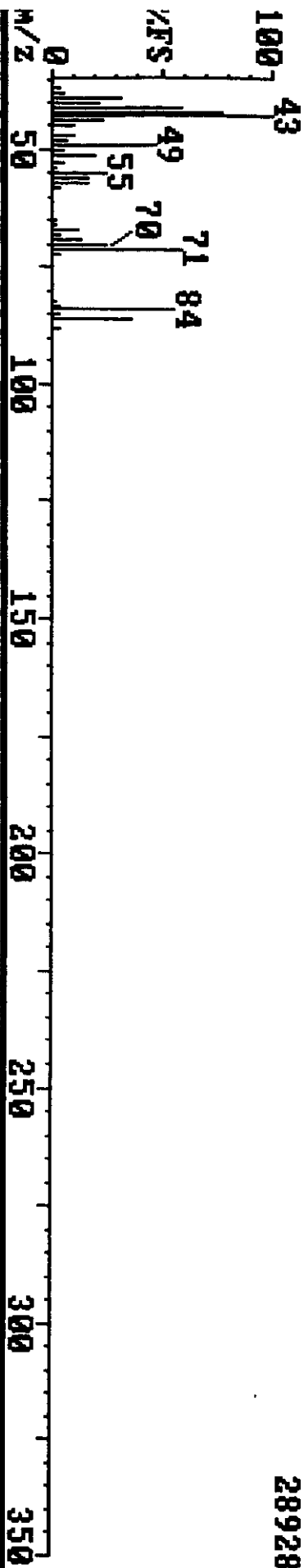


82600 17 (2.820) Acetone

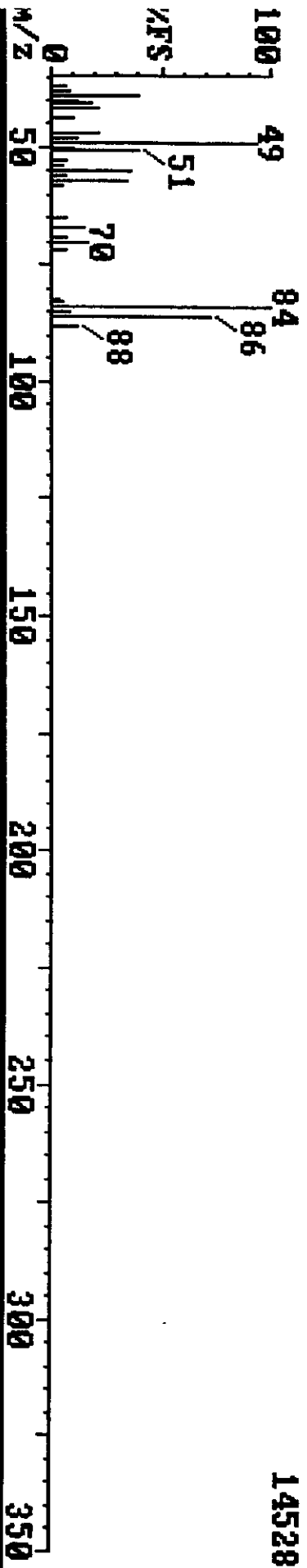


17-Aug-98 18:30 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-1-4-B TC 214-1-9B TL1#46297 Instrument F

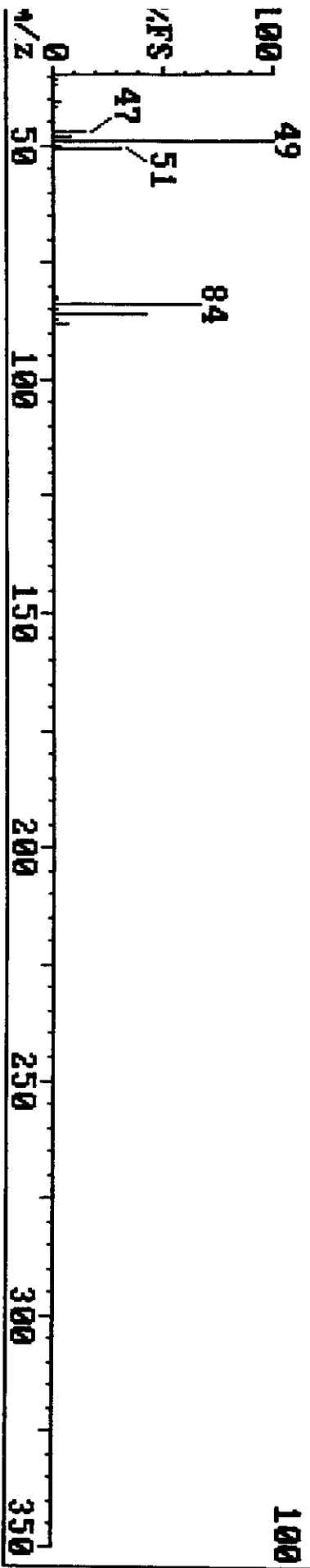
FXB81 327 (3.270)



FXB81 327 (3.271) REFINE



MASTER 22 (3.590) Methylene chloride



17-Aug-98 18:30

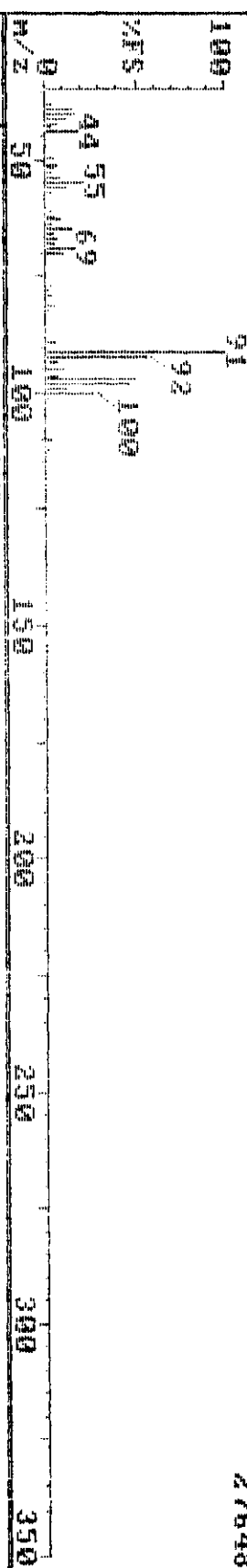
Triangle Laboratories, Inc. (919) 544-5729

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

Instrument F

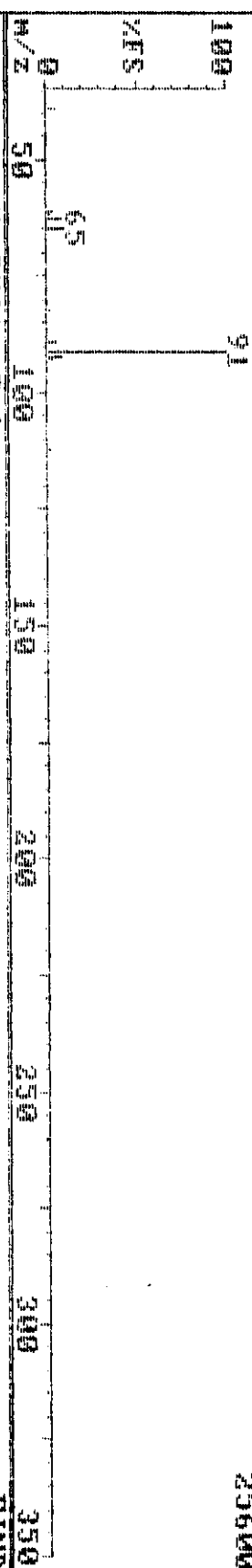
FX801 809 (8.891)

27648



FX801 809 (8.891) NBTME

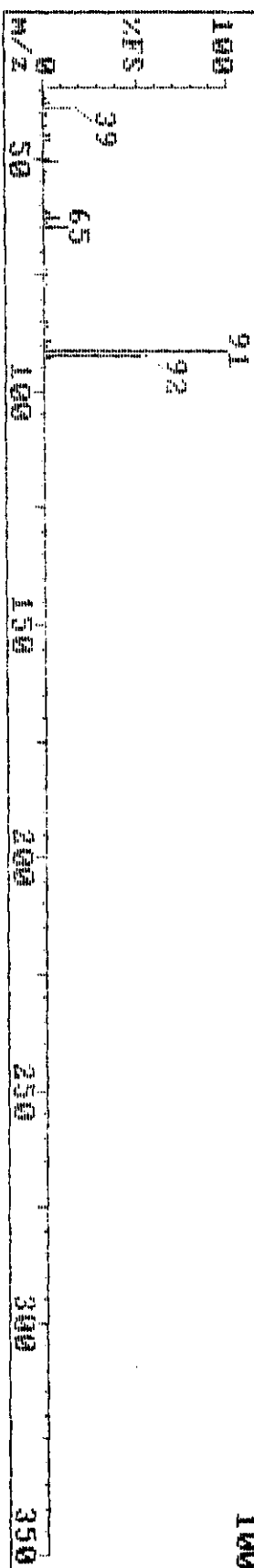
25600



B260H 41 (8.881) Toluene

FIND

100



17-Aug-98 18:30

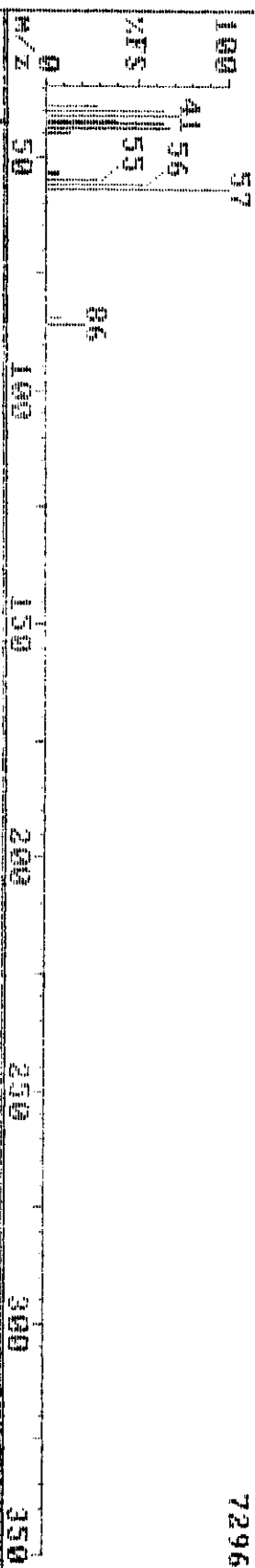
Triamyle Laboratories, Inc.

(919) 544-5729

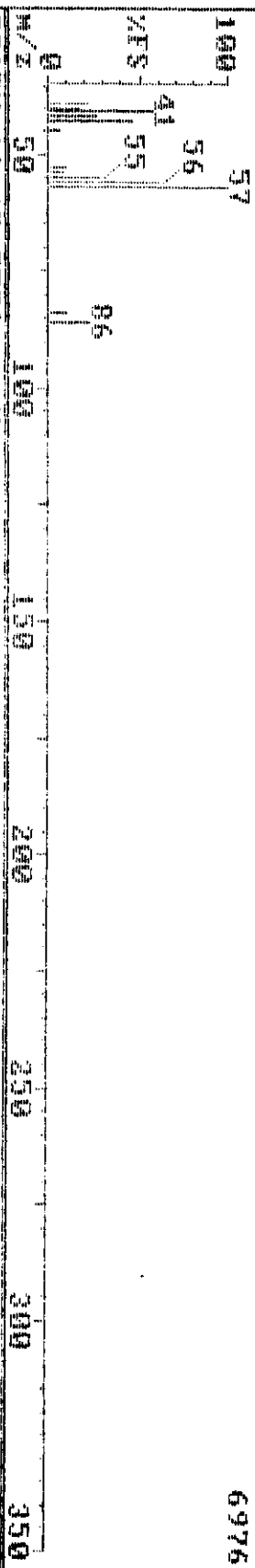
Sample: T-U-1-4-B TO 214-1-98 T1146297

Instrument F

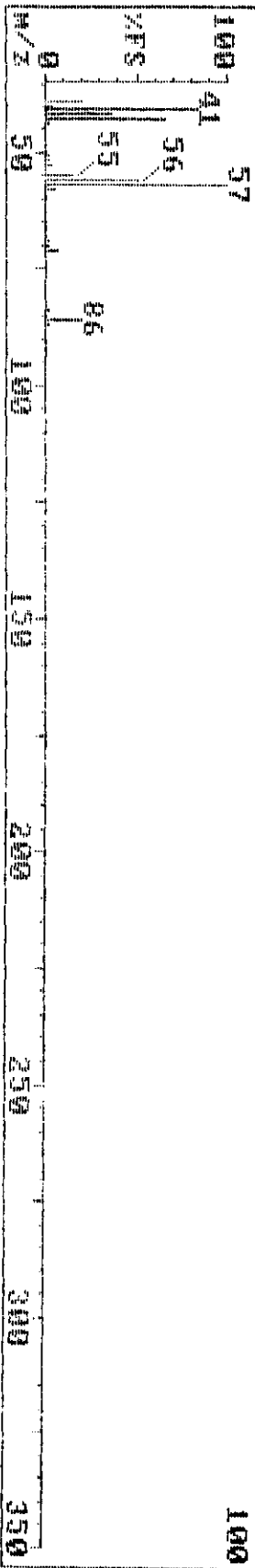
TX001 308 (3.000)



TX001 308 (3.001) REFINE



826HX 11 (3.870) n-Hexane



Pacific Environmental Services

Project Number: 46297

Sample File: FX878

Method 8260 VOST

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.

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: 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 ₅		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 ₄		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.

801 Capitola Drive • Durham, North Carolina 27713

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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: ICALF814

Date Analyzed : 08/17/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.267	5.19	1	107
Toluene-d ₈	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.

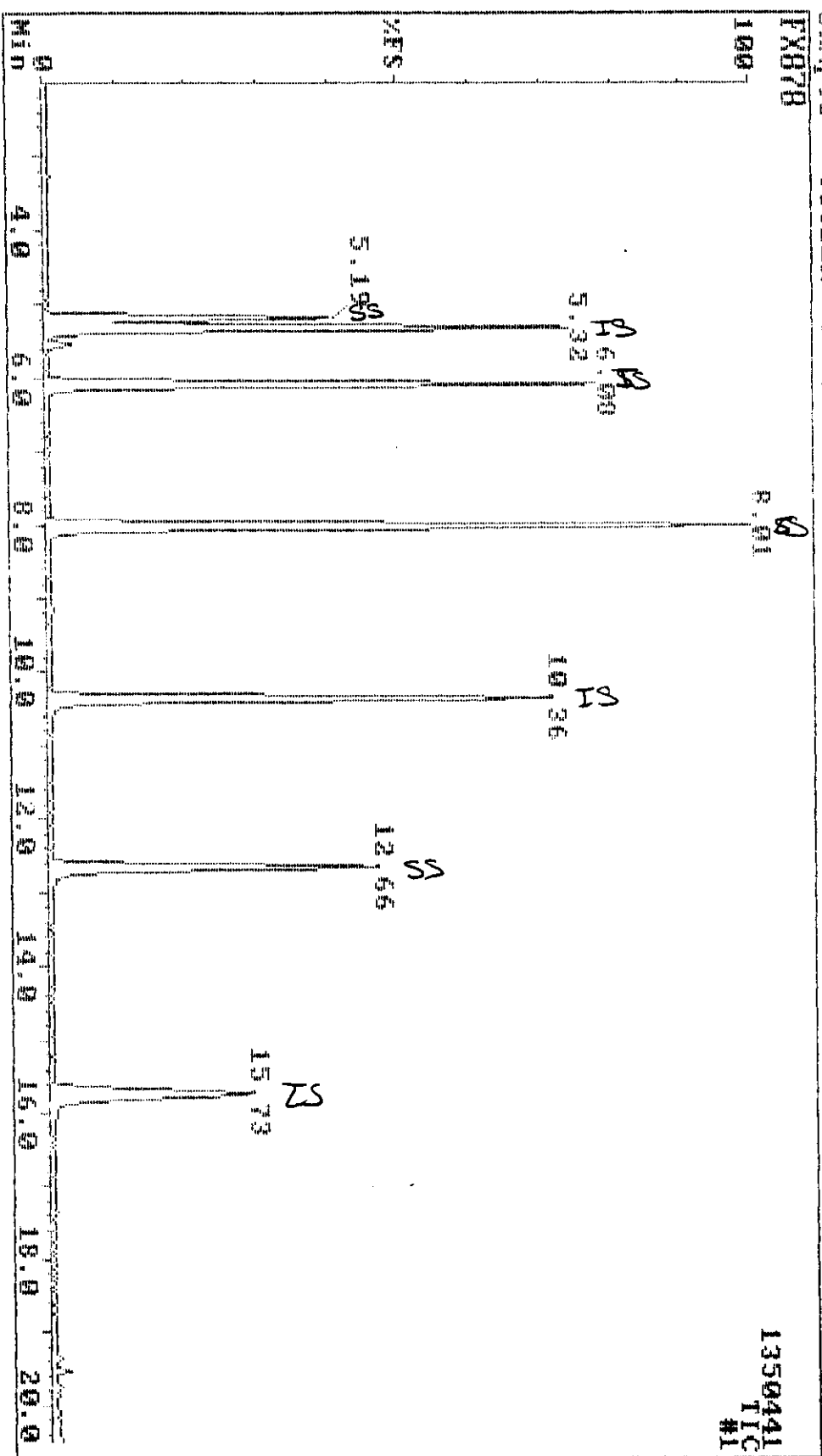
801 Capitola Drive • Durham, North Carolina 27713

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

Savar v3.7

Printed: 18:00 08/24/1998

17-Aug-98 15:51 Triangle Laboratories, Inc. (919) 544-5729
 Sample: VOSTMILK T/TIC Instrument F



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	Methylbenz 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	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-Dichloroethene
26	17	15	15	3	1208	bb	4.77	FP	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	Bromochloromethane
39	0	0	0	0	0		0.000	75	cis-1,3-Dichloropropene
40	39	3	66	4	14176	bv	3.021	FP	43 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	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	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	19.762	180	1,2,3-Trichlorobenzene

YL 8/19/04

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-Bromofluorobenzene
8	57	33	66	5	26612	vv	1.175	FP	39 1,3-Butadiene
9	0	0	0	0	0		0.000	106	Vinyl bromide
10	57	40	55	4	8612	A	5.650	FP	73 MTBE
11	69	57	59	2	17896	bb	5.200	FP	57 n-Hexane
12	55	48	62	13	27408	A	4.470	FP	42 1,2-Epoxybutane
13	64	47	57	1	65292	A	5.591	FP	57 Iso-Octane
14	44	28	69	-12	266764	bb	6.501	FP	55 Ethyl acrylate

M8/19/98

17-Aug-98 15:51

Triangle Laboratories, Inc.

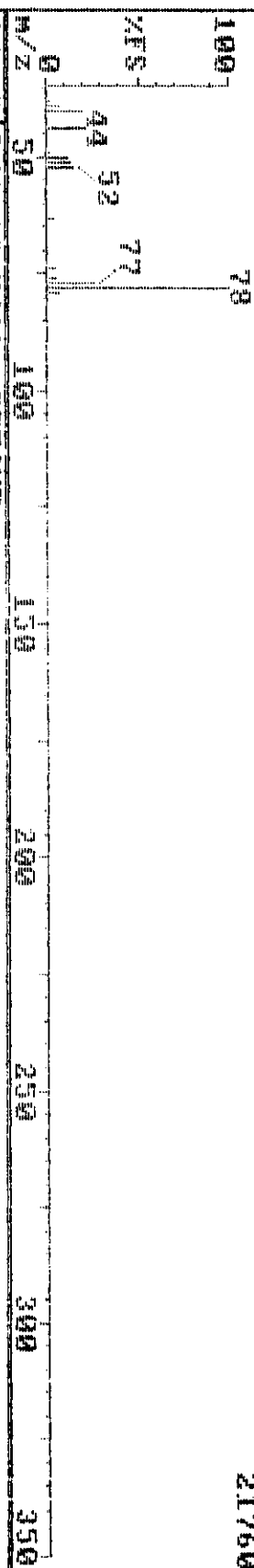
(919) 544-5729

Sample: UO8THLK T/TC

Instrument F

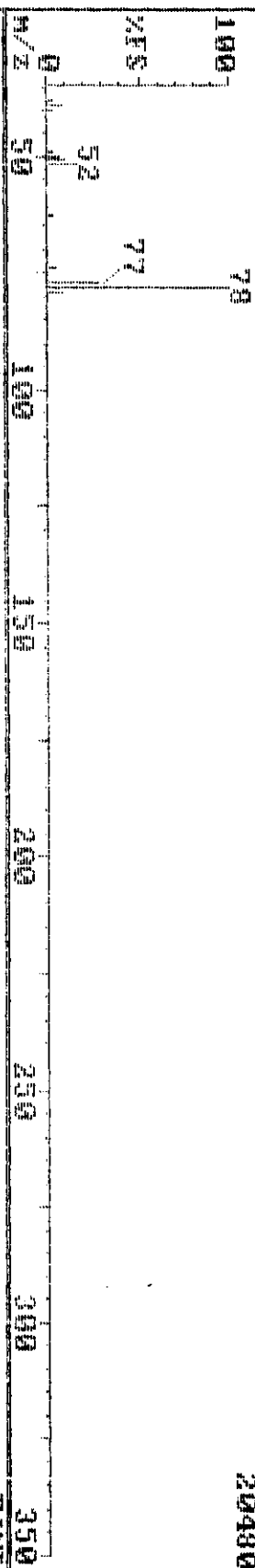
FX878 554 (5.541)

21760



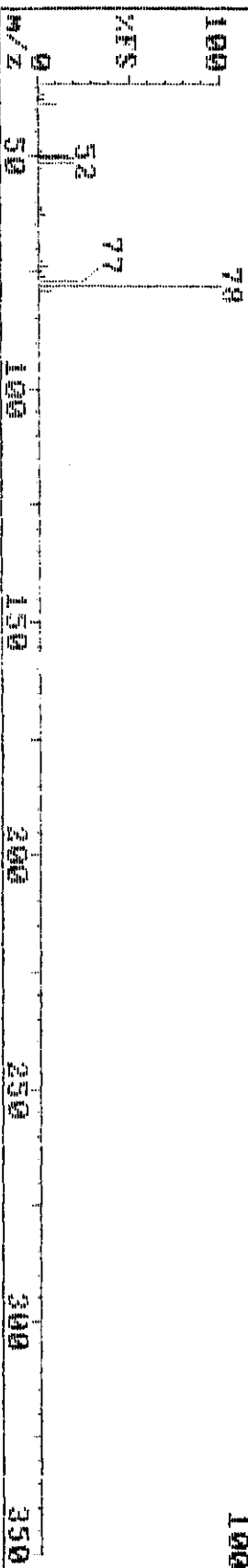
FX878 554 (5.541) RETIME

20480



02608 32 (5.511) Benzene

FIND 100



17-Aug-98 15:51

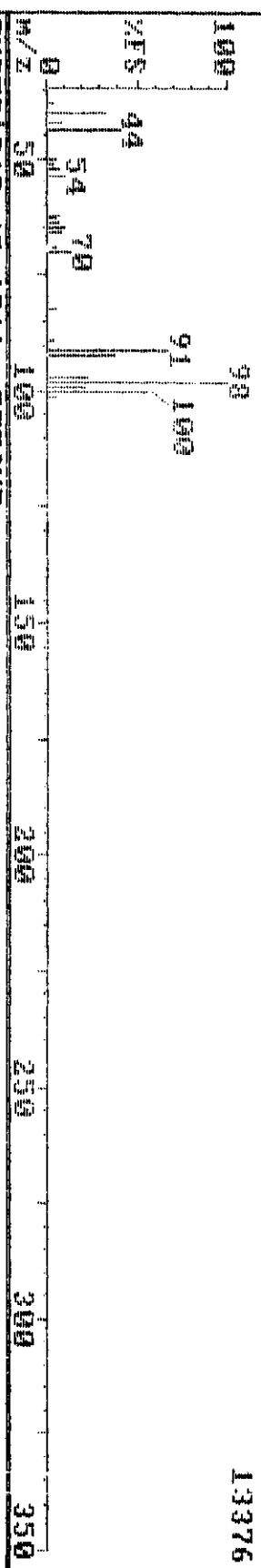
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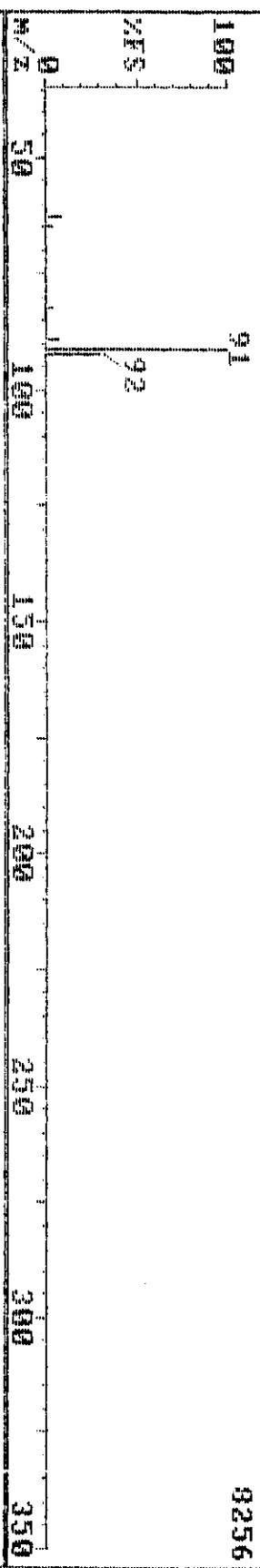
Sample: UOSTBLK T/TC

Instrument F

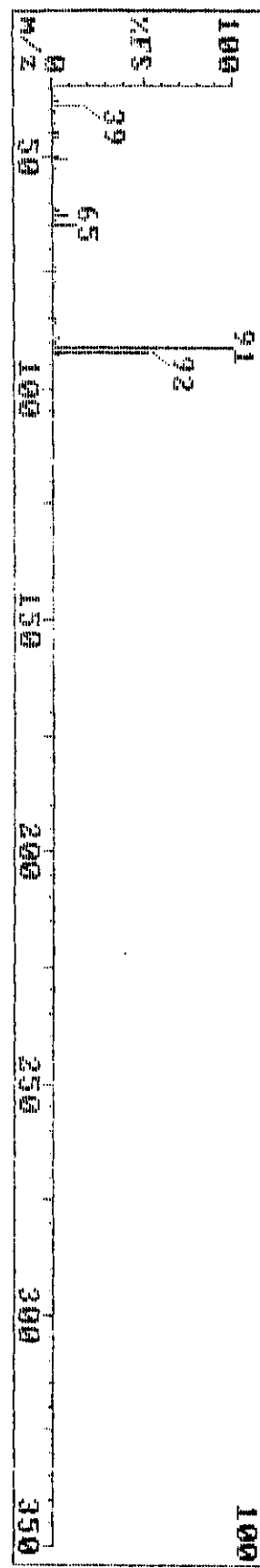
FX878 810 (8.101)



FX878 810 (8.101) REFINE



82600 41 (8.081) Toluene



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
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

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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 ₅		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 ₄		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

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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

Date Received: / /

Response File: ICALF814

TLI ID: VOSTBLK081898

Date Analyzed : 08/18/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.255	5.16	1	102
Toluene-d ₈	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.

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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

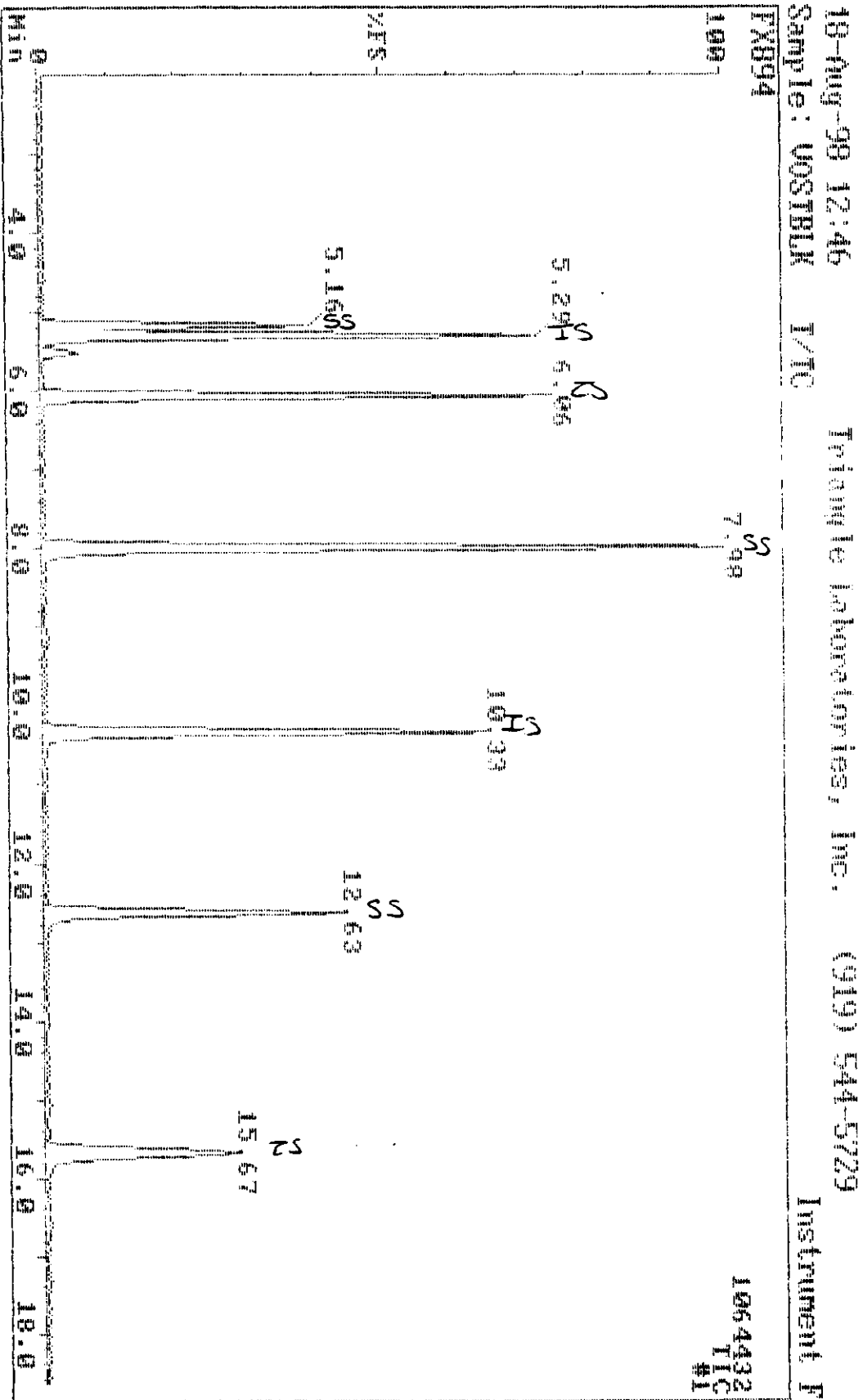
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Printed: 18:00 08/24/1998



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	5.1291	168 Pentafluorobenzene
2	100	97	98	0	2162904	bv	6.0641	119 1,4-Difluorobenzene
3	100	95	95	0	1665360	bv	10.3311	117 Chlorobenzene-d5
4	100	77	97	-1	600868	bv	15.672	152 1,4-Dichlorobenzene-d4
5	100	97	99	-1	846372	bb	5.1611	113 Dibromofluoromethane
6	100	93	97	0	2796248	bv	7.2811	78 Toluene-d3
7	100	91	93	0	778432	bv	12.6511	95 4-Bromofluorobenzene
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 Trichlorodifluoromethane
14	0	0	0	0	0		0.000	26 1,1-Dichloroethane
15	0	0	0	0	0		0.000	145 Iodomethane
16	0	0	0	0	0		0.000	71 Carbon disulfide
17	60	11	35	2	53034	tr	2.840	40 acetone FP
18	0	0	0	0	0		0.000	41 Allyl chloride
19	0	0	0	0	0		0.000	83 Methylbenzyl chloride
20	0	0	0	0	0		0.000	53 acrylonitrile
21	0	0	0	0	0		0.000	24 trans-1,2-Dichloroethene
22	0	0	0	0	0		0.000	63 1,1,2-Trichloroethane
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	43 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	5.5111	73 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	35	2	33	3	9063	bb	7.081	43 4-Methyl-2-pentanone FP
41	70	39	73	-1	51592	bb	8.0711	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	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	136	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	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	136	1,3-Dichlorobenzene
71	0	0	0	0	0		0.000	136	1,4-Dichlorobenzene
72	0	0	0	0	0		0.000	21	acetylene chloride
73	0	0	0	0	0		0.000	21	acetylene benzene
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	0	0	0	0	0		0.000	225	Hexachlorobutadiene
78	0	0	0	0	0		0.000	123	Naphthalene
79	0	0	0	0	0		0.000	130	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	132 1,4-Dichlorobenzene-d4
5	100	97	99	-1	846372	bb	5.161	113 Dibromofluoromethane
6	100	93	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	2950135	bb	3.800	57 n-Hexane
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/19/48

10-Aug-90 12:46

Triangulo Laboratories, Inc. (910) 544-5729

Sample: UO8TBM T/IC

Instrument F

FX894 551 (5.511)

78

27392

%FS

40 50

77

m/z

0 50

100

150

200

250

300

350

FX894 551 (5.511) MFMF

78

25856

%FS

51

77

m/z

0 50

100

150

200

250

300

350

B260B 32 (5.511) Benzene

78

FIND 100

%FS

52

77

m/z

0 50

100

150

200

250

300

350

10-Aug-98 12:46

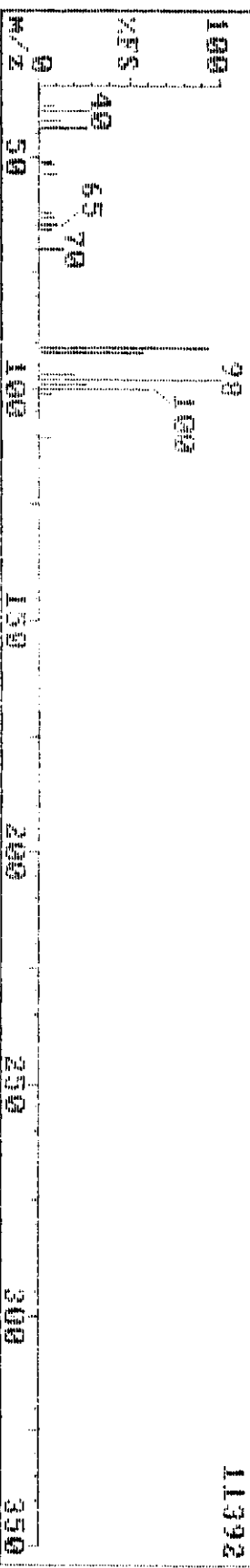
Triangle Laboratories, Inc. (910) 544-5729

Sample: VOSTBLK

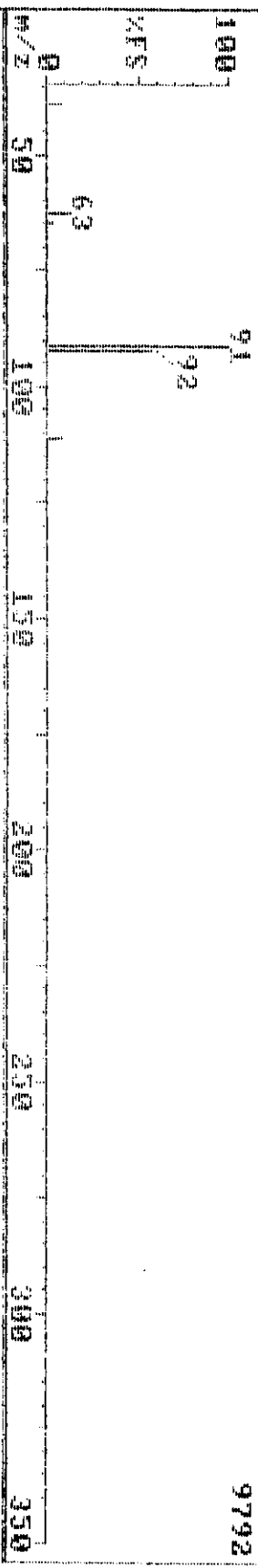
T/TC

Instrument F

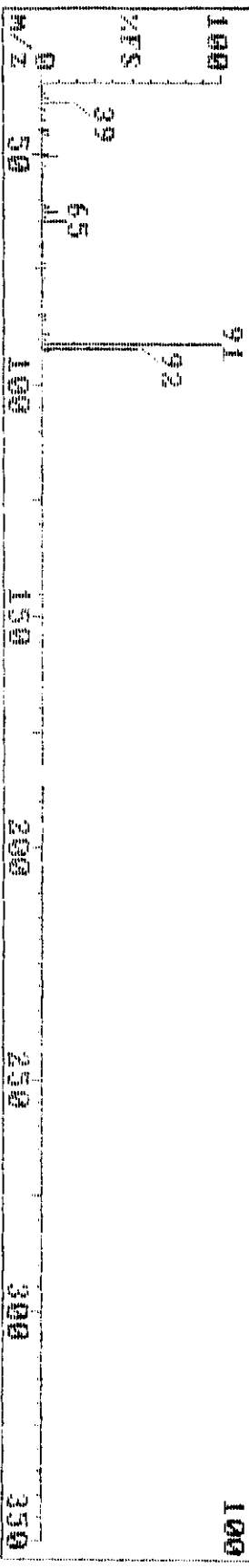
FXB94 887 (8.871)



FXB94 887 (8.871) REFINE



BZ6MH 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

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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

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ng
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 ₅		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 ₄		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 ₈	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.

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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.

801 Capitola Drive • Durham, North Carolina 27713

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

Savar v3.7

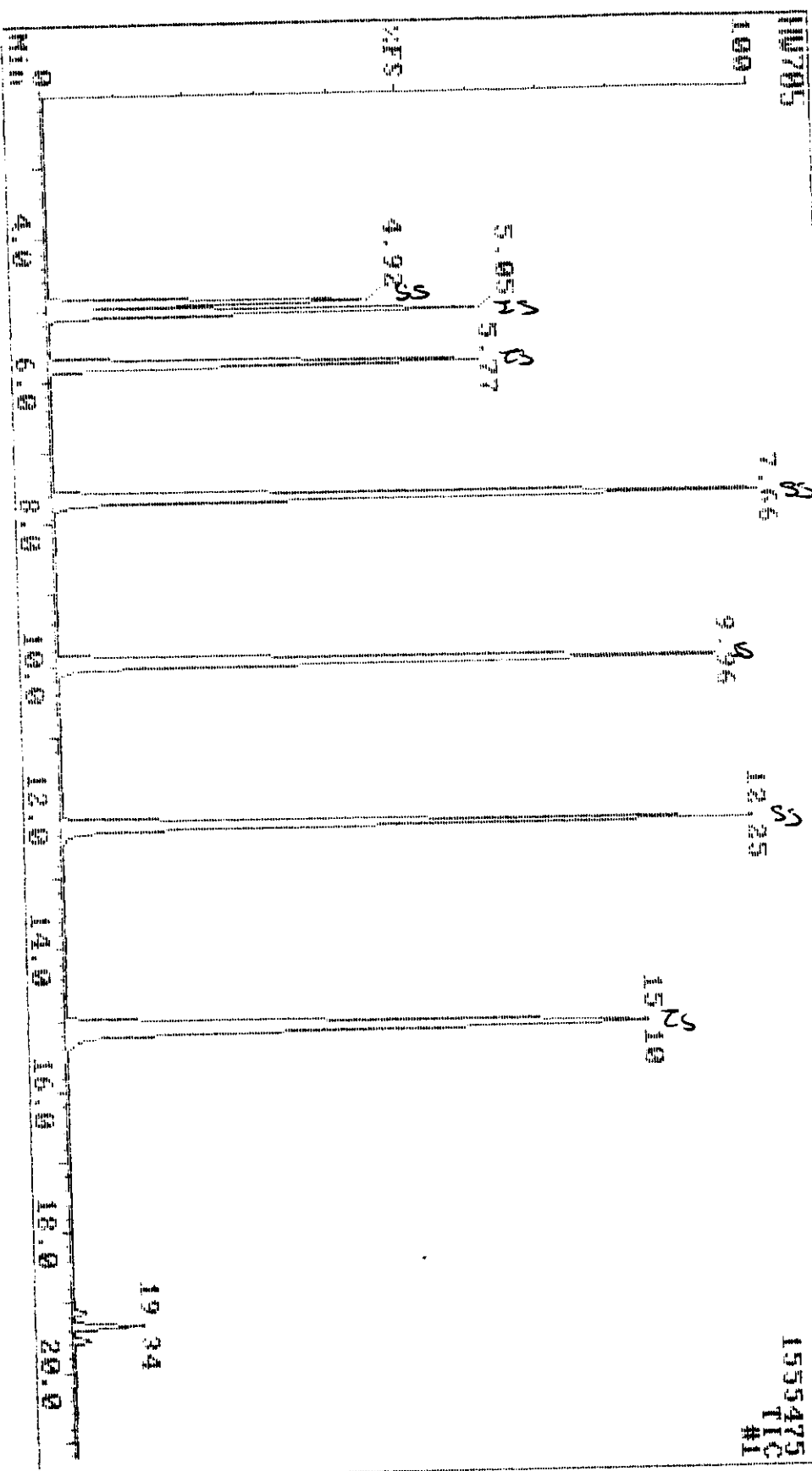
Printed: 18:00 08/24/1998

08-19-98 02:36

Sample: UOSTMLK T/TO

Triad Laboratories, Inc. (919) 544-5729

Instrument H



Data Review: ☒
Date: 8/19/98

No.	MAT	FOR	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-d5
4	100	32	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	2533548	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-Dichloroethene
15	0	0	0	0	0		0.00	42 Iodomethane
16	0	0	0	0	0		0.00	76 Carbon tetrachloride
17	52	18	35	8	3352	bb	2.77	43 Acetone
18	0	0	0	0	0		0.00	41 Allyl chloride
19	35	59	80	-1	6220	bb	3.96	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-Dichloroethene
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	37 2,2-Dichloropropane
25	0	0	0	0	0		0.00	96 cis-1,2-Dichloroethene
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	150 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	23432	bb	7.44	43 4-Methyl-2-pentanone
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 m

FP

FP

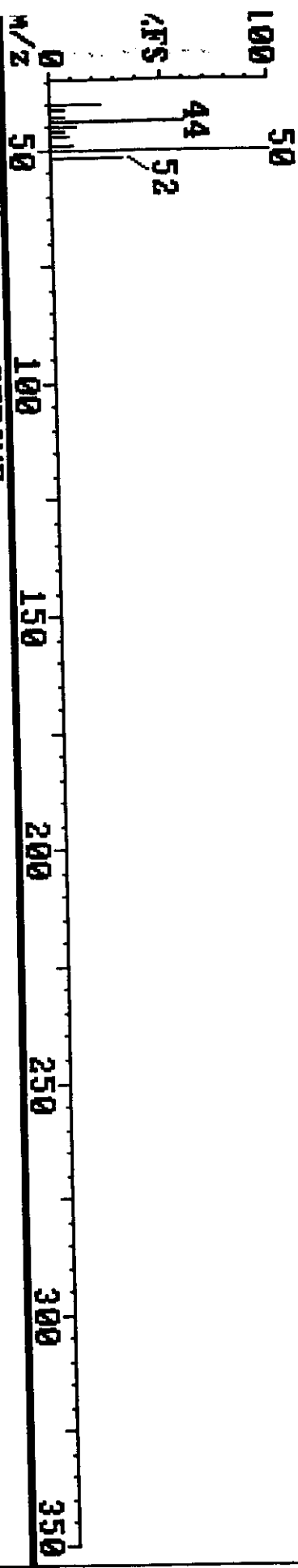
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
51	0	0	0	0	0		0.00	131	1,1,1,2-Tetrachloroethane
52	0	0	0	0	0		0.00✓	106	Ethylbenzene
53	51	45	43	2	3212	bb	10.56	106	m-/p-Xylene
54	0	0	0	0	0		0.00	106	o-Xylene
55	0	0	0	0	0		0.00	104	Styrene
56	0	0	0	0	0		0.00	173	Bromoform
57	63	45	59	0	12144	bb	12.03	105	Cumene
58	0	0	0	0	0		0.00	33	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	3024	bb	12.07	FP	120 n-Propylbenzene
62	16	11	23	-15	456	bb	12.73	FP	75 trans-1,4-Dichloro-2-but
63	57	47	47	0	275	bb	12.55	FP	126 2-Chlorotoluene
64	0	0	0	0	0		0.00	126	4-Chlorotoluene
65	70	57	57	1	12772	bb	13.35	FP	105 1,3,5-Trimethylbenzene
66	86	69	69	1	27028	bb	14.11	119	tert-Butylbenzene
67	63	52	52	0	12672	bb	14.27	105	1,2,4-Trimethylbenzene
68	88	70	70	0	48380	bb	14.77	105	sec-Butylbenzene
69	52	31	52	0	45240	bb	15.36	119	p-Cymene
70	71	52	64	1	18108	bb	14.87	146	1,3-Dichlorobenzene
71	0	0	0	0	34648	bb	15.71	FP	146 1,4-Dichlorobenzene
72	0	0	0	0	0		0.00	91	Benzyl chloride
73	78	64	64	2	38504	bb	15.89	91	n-Butylbenzene
74	63	54	54	2	15808	bb	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	180	1,2,4-Trichlorobenzene
77	89	58	95	-3	73744	bb	19.34	225	Hexachlorobutadiene
78	94	73	81	-1	55164	bb	19.34	128	Naphthalene
79	100	88	88	-2	44134	bb	19.55	180	1,2,3-Trichlorobenzene

MS/19/18

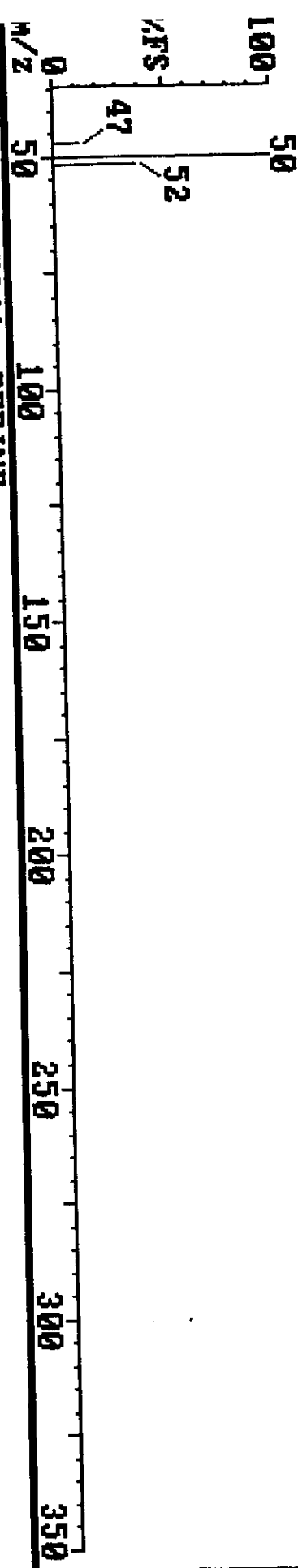
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	85	98	0	2415996	bb	5.04	168	Pentafluorobenzene
2	100	97	99	1	2874780	bv	5.77	114	1,4-Difluorobenzene
3	100	95	95	0	4260740	bv	9.96	117	Chlorobenzene-d5
4	100	82	98	5	2872176	bv	15.10	152	1,4-Dichlorobenzene-d4
5	100	98	100	2	1407888	bb	4.92	113	Dibromofluoromethane
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	30	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

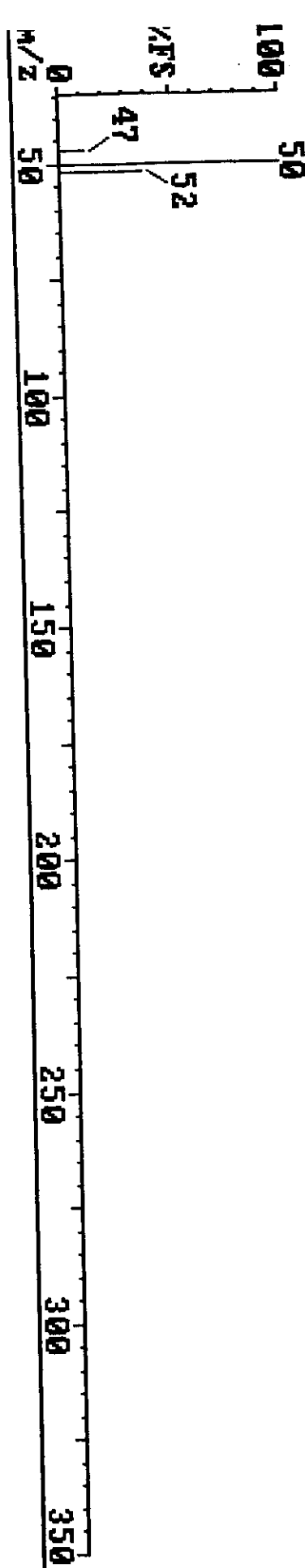
HW713 96 (0.960) 6464



HW713'96 (0.961) REFINE 4672



HW713'96 (0.961) REFINE 4672



08-19-90 02:36

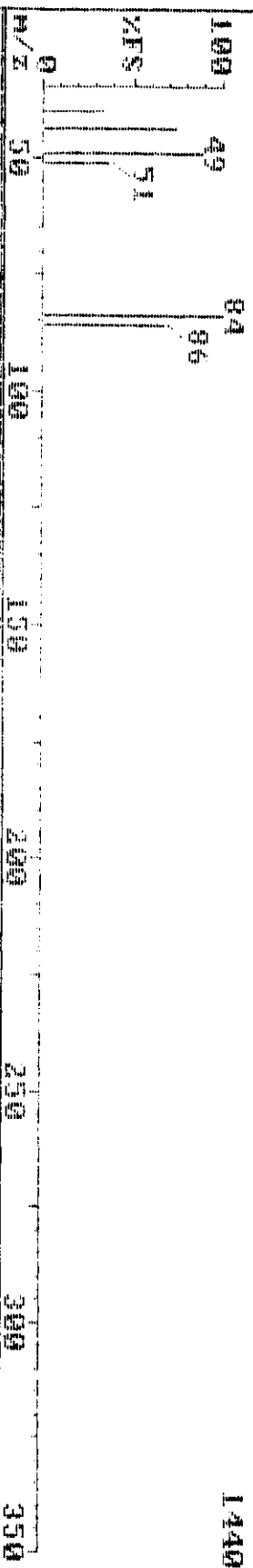
Triangle Laboratories, Inc. (919) 644-5729

Sample: VOSTBLK

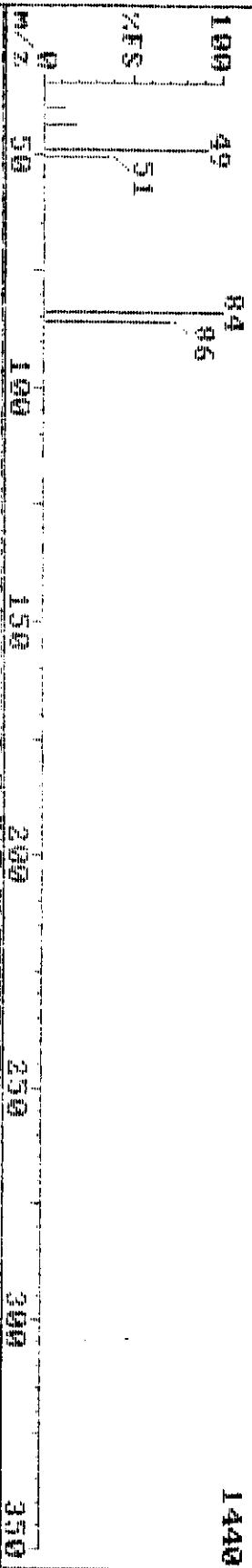
T/TC

Instrument II

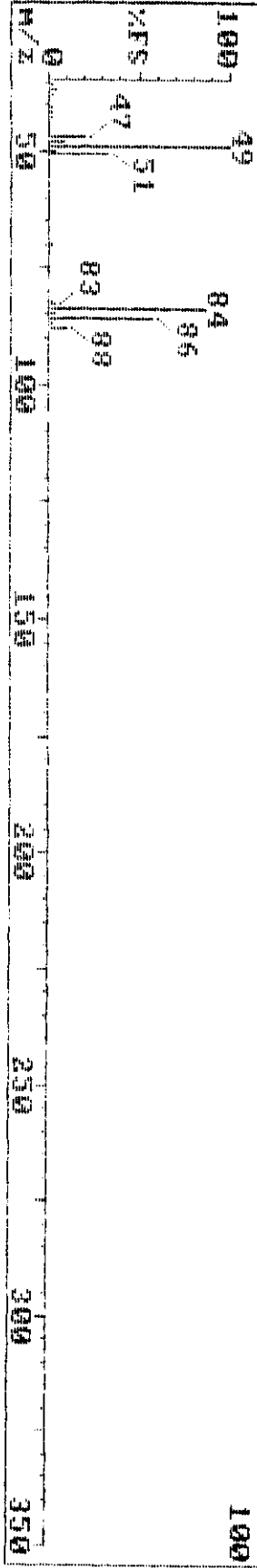
HM705 306 (3.660)



HM705 306 (3.661) REFINE



82608 19 (3.670) Methylene chloride



08-19-98 02:36

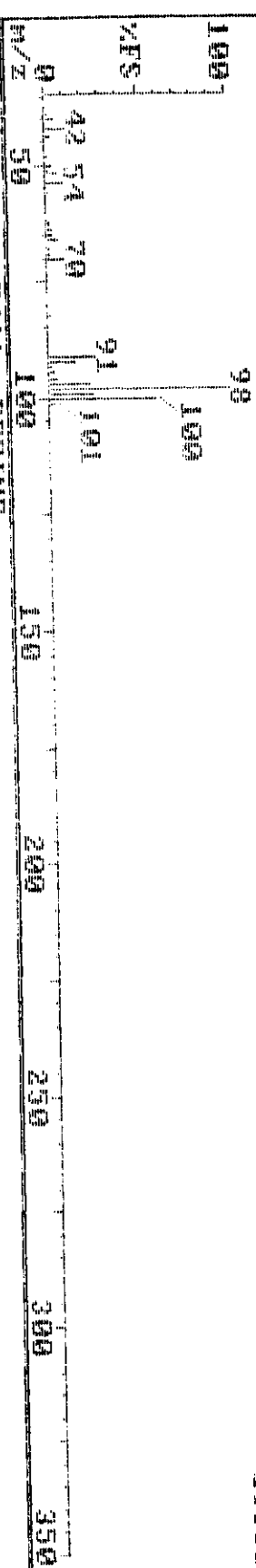
Triangle Laboratories, Inc. (919) 544-5729

Sample: UOSTBLK T/TC

Instrument H

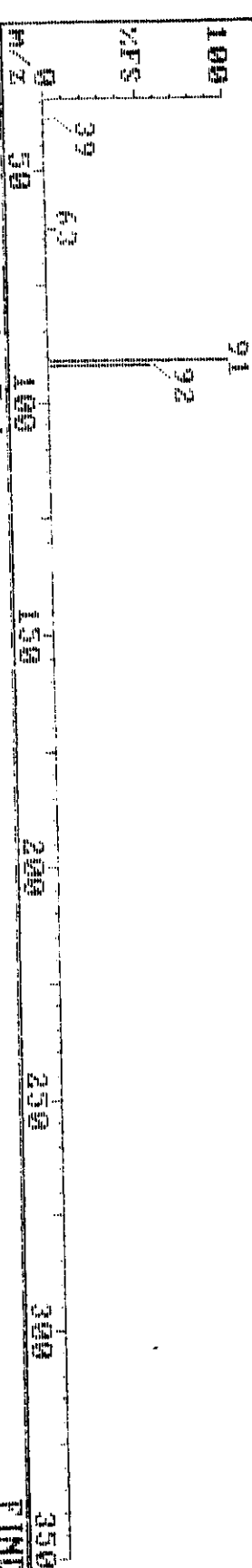
HW705 774 (7.741)

26880



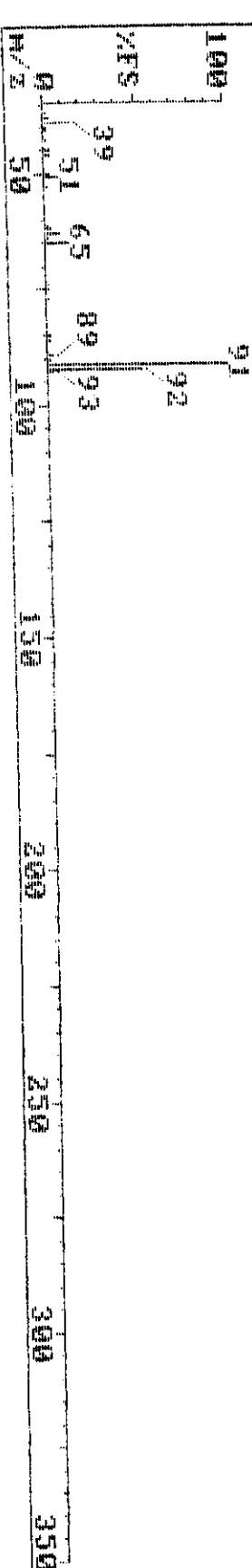
HW705 774 (7.741) HEPTANE

6272



B2600 41 (7.751) Toluene

FIND 100



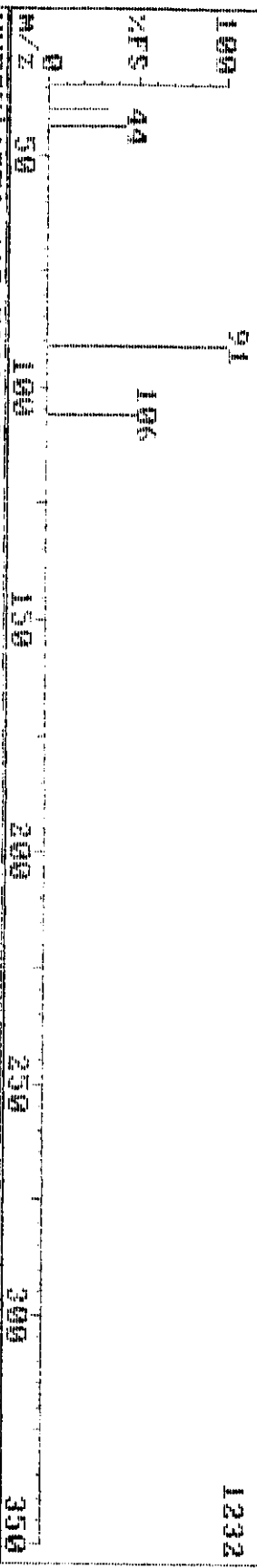
08-19-90 02:36

Triangle Laboratories, Inc. (919) 544-5770

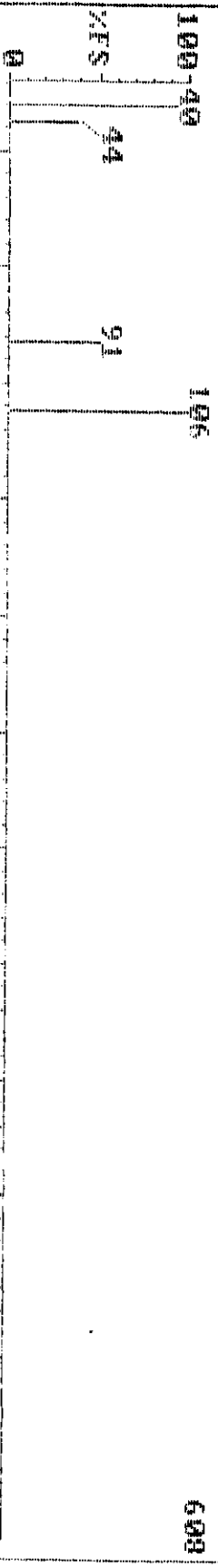
Sample: UOSTMUK T/TC

Instrument H

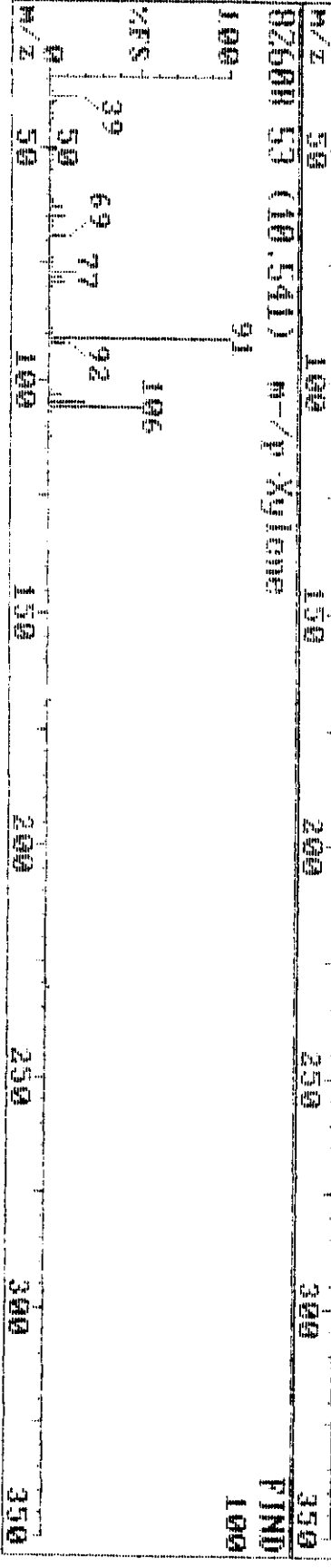
HM705 1656 (10.561)



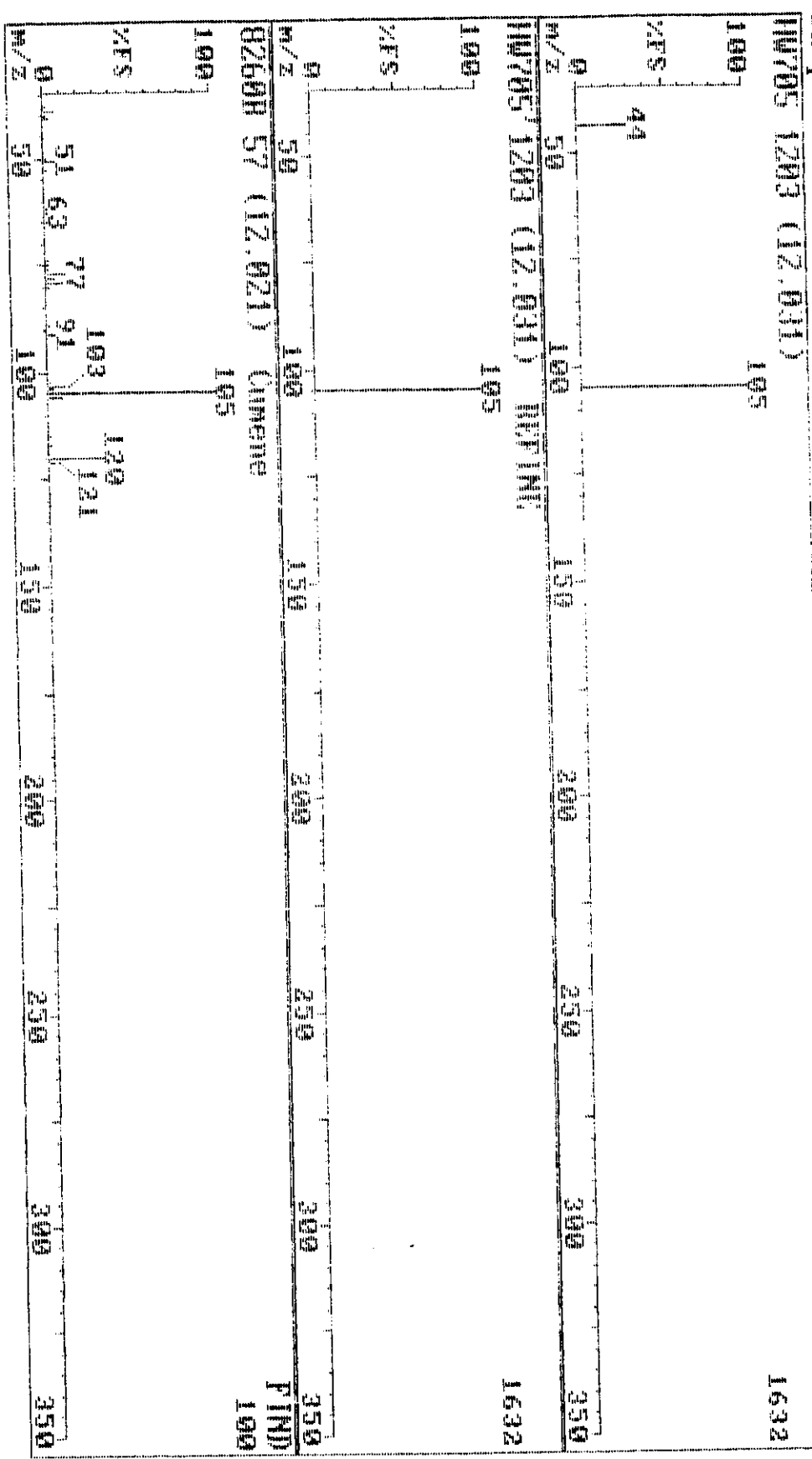
HM705 1056 (10.561) RETEND



8260H 53 (10.541) m-p Xylene



08-19-98 02:36 Triangle Laboratories, Inc. (919) 544-5729
 Sample: U08THLX T/TIC Instrument H



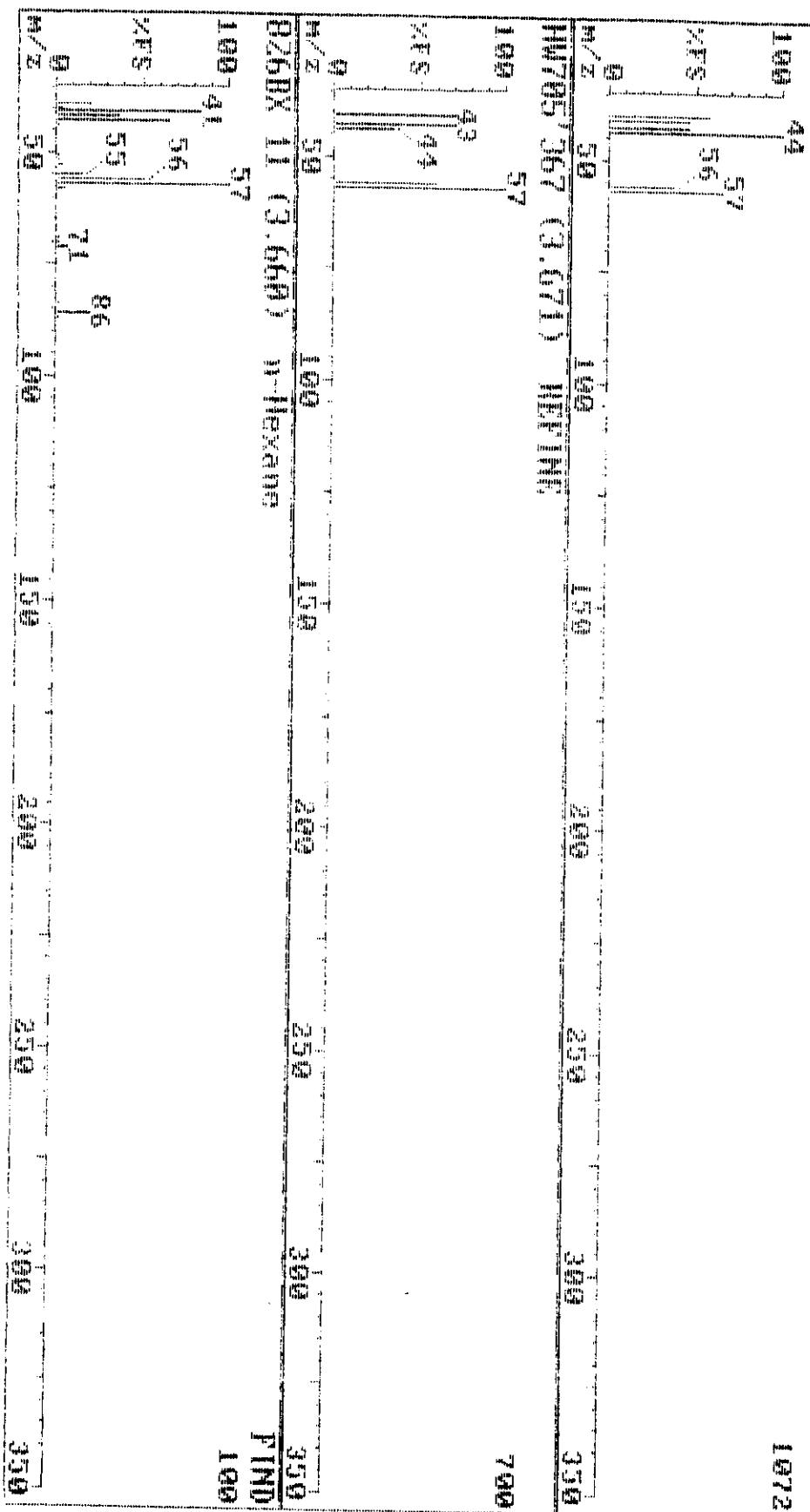
00-19-90 02:36

Triangle Laboratories, Inc. (919) 544-5729

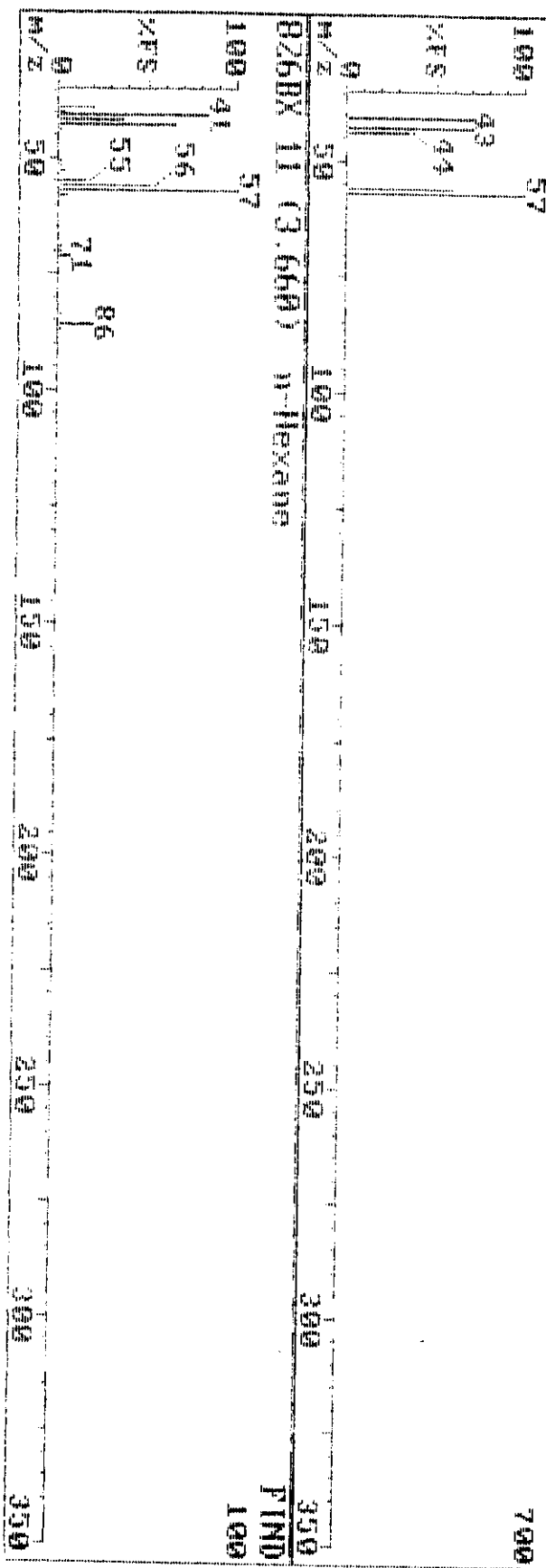
Sample: UO8THX T/10

Instrument H

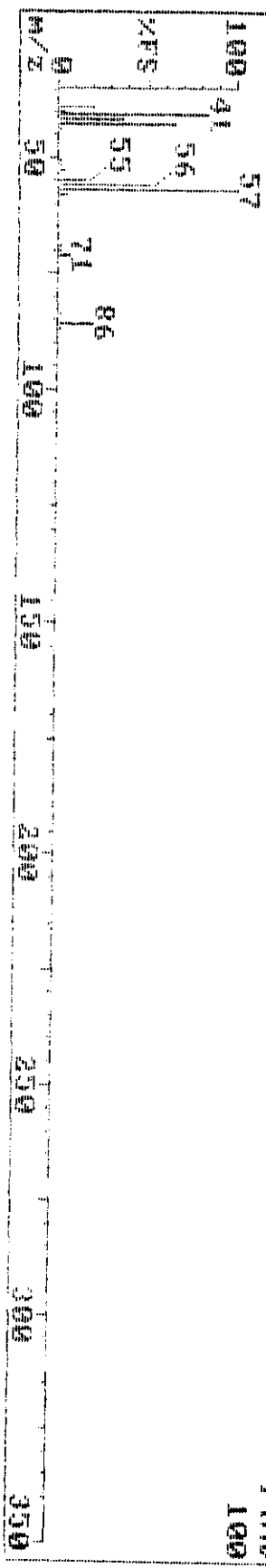
HW705 367 (3.670)



HW705 367 (3.671) HEPH



826BX 11 (3.660) n-Hexane



PIND

CALIBRATION
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

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

Triangle Laboratories, Inc.

801 Capitola Drive • Durham, North Carolina 27713

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

Savar v3.7

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
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	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
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

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

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

Triangle Laboratories, Inc.

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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

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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
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

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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.

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: _____

VR 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: 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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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: 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: 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: FX889 Date of Analysis :08/18/98 Analyte List: 8260
ICAL File: ICALF814
VOST Calibration.

Surrogate	Flag	RF0.25	REMEAN	%D
Dibromofluoromethane	S	0.332	0.421	21.1
Toluene-d8	S	1.041	1.020	-2.1
4-Bromofluorobenzene	S	0.399	0.340	-17.4

Approved by: _____

VR 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: 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	1	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: ICALF817
RF.5 FX876

Date of Analysis :08/17/98

Analyte List: 8260

VOST Calibration.

Analyte	Flag	RF.5 MEAN		%RSD
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			
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.

Initial Calibration Curve

ICAL File: ICALF818

Date of Analysis :08/18/98

Analyte List: 8260

RF.5 FX891

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.
Initial Calibration Curve

ICAL File: ICALH819
RF.5 HW708

Date of Analysis :08/19/98

Analyte List: 8260

VOST Calibration.

Analyte	Flag	RF.5 MEAN		%RSD
Pentafluorobenzene	I			
1,3-Butadiene		1.582	1.582	0.0
Vinyl bromide		1.657	1.657	0.0
MTBE		0.314	0.314	0.0
n-Hexane		2.319	2.319	0.0
1,2-Epoxybutane		0.012	0.012	0.0
Iso-Octane		4.441	4.441	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.364	0.364	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

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Triangle Laboratories, Inc.
Continuing Calibration Curve

CCAL File: HW708
ICAL File: ICALH819

Date of Analysis :08/19/98

Analyte List: 8260

VOST Calibration.

Analyte	Flag	RF0.50	RFMEAN	%D
Pentafluorobenzene	I			
1,3-Butadiene		1.582	1.582	0.0
Vinyl bromide		1.657	1.657	0.0
MTBE		0.314	0.314	0.0
n-Hexane		2.319	2.319	0.0
1,2-Epoxybutane		0.012	0.012	0.0
Iso-Octane		4.441	4.441	0.0
1,4-Difluorobenzene	I			
Ethyl acrylate		0.364	0.364	0.0
Chlorobenzene-d5	I			
1,4-Dichlorobenzene-d4	I			

Approved by: ML 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 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)

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

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

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-d₅, and 1,4-dichlorobenzene-d₄, and the surrogate standards reported are dibromofluoromethane, toluene-d₈, 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 μ 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-d₈ 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.

COMMUNICATION PROBLEM BETWEEN PURSE & TRAP & DATA ACQUISITION SYSTEM
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-d₄ 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 LABS

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 27709-3411
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 080998	HW559
VOSTBLK 082198 T/TC	VOSTBLK 082198	FX952
VOSTBLK 082498 T/TC	VOSTBLK 082498	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.

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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	0.033	0.022	0.039	0.036	0.028
n-Hexane	0.266	0.176	0.145	0.083	0.107
1,2-Epoxybutane	(0.032)	(0.029)	(0.025)	(0.025)	(0.024)
Iso-Octane	0.029	0.016	0.019	0.021	0.012
Ethyl acrylate	(0.008)	(0.008)	(0.007)	(0.007)	(0.007)

() - Estimated Detection Limit

Page 1

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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)

()-Estimated Detection Limit

Page 3

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

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)

()-Estimated Detection Limit

Page 5

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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- 2 -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)	0.037	(0.001)	(0.002)	(0.001)
n-Hexane	0.003	0.041	(0.001)	(0.001)	(0.001)
1,2-Epoxybutane	(0.045)	(0.025)	(0.025)	(0.041)	(0.024)
Iso-Octane	(0.001)	0.010	(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)

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
RECOVERY PERSON: Abernathy, Maret

PROJECT NO.: R012.001
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



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	Time	Received by:		
					7/28/98	1630			
Relinquished by:					Date	Time	Received for Lab by:		
					7/29/98	1200	<i>Bill Turner</i>		

TRIANGLE LABORATORIES, INC. -- LOG IN RECORD/CHAIN OF CUSTODY

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

Handwritten signature

Book 214
 Page 27

Ice Chest	ICE PACKS	Temp	6.0 C	Carrier and Number	FedEx/	27			
TLI Number..	Client Sample ID.....	Matrix	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
mg/H/CPM.	Client COC ID.....*	Location.....							
214-27-1A	S-V-2-1-A	R026	TENAX						
214-27-1B	S-V-2-1-B	R026	TNX/CHAR						
214-27-2A	S-V-2-2-A	R026	TENAX						
214-27-2B	S-V-2-2-B	R026	TNX/CHAR						
214-27-3A	S-V-2-3-A	R026	TENAX						
214-27-3B	S-V-2-3-B	R026	TNX/CHAR						
214-27-4A	S-V-2-4-A	R026	TENAX						
214-27-4B	S-V-2-4-B	R026	TNX/CHAR						
214-27-5A	T-V-2-1-A	R026	TENAX						
214-27-5B	T-V-2-1-B	R026	TNX/CHAR						
214-27-6A	T-V-2-2-A	R026	TENAX						
214-27-6B	T-V-2-2-B	R026	TNX/CHAR						
214-27-7A	T-V-2-3-A	R026	TENAX						
214-27-7B	T-V-2-3-B	R026	TNX/CHAR						

Receiving Remarks:

Archive Remarks:

Custody Seal : Absent Sample Seals: Absent
 Chain of Custody : Present Container: Intact
 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

[Signature]

Ice Chest ICE PACKS Temp 6.0 C

Carrier and Number FedEx/

Page 27

TLI Number	Client Sample ID	Matrix	To LAB 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
214-27-15A	S-V-3-6-A	R026	TENAX								
214-27-15B	S-V-3-6-B	R026	TENAX/CHAR								
214-27-16A	T-V-3-1-A	R026	TENAX								
214-27-16B	T-V-3-1-B	R026	TENAX/CHAR								
214-27-17A	T-V-3-2-A	R026	TENAX								
214-27-17B	T-V-3-2-B	R026	TENAX/CHAR								
214-27-18A	T-V-3-3-A	R026	TENAX								
214-27-18B	T-V-3-3-B	R026	TENAX/CHAR								
214-27-19A	S-V-FB-A	R026	TENAX								
214-27-19B	S-V-FB-B	R026	TENAX/CHAR								
214-27-20A	T-V-4-1-A	R026	TENAX								
214-27-20B	T-V-4-1-B	R026	TENAX/CHAR								
214-27-21A	T-V-4-2-A	R026	TENAX								
214-27-21B	T-V-4-2-B	R026	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
SNO Forms : N/A

Sample Seals: Absent
Container: Intact

Date Received

07/29/98

Page

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ICE Chest ICE PACKS Temp 6.0 C

Carrier and Number FedEx/

Til Number	Client Sample ID	Matrix	To LAB 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
------------	------------------	--------	------------------	----------------------	------------------	----------------------	------------------	----------------------	------------------	----------------------	--------------------

MR/H: CPM

Client COC ID

Location

214-27-22A

T-V-4-3-A
T-V-4-3-A

R026

TENAX

214-27-22B

T-V-4-3-B
T-V-4-3-B

R026

TNX/CHAR

214-27-23A

T-V-4-4-A
T-V-4-4-A

R026

TENAX

214-27-23B

T-V-4-4-B
T-V-4-4-B

R026

TNX/CHAR

Receiving Remarks:

Archive Remarks:

Triangle Laboratories, Inc.
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	3274056	8260	USA	1043	8260B	8266X

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
V55-92-3	V55-92-2		
44p. 8/22/98	44p. 8/22/98		

Extract / Sample volume _____ Circle unit
 _____ µL mL
 Signature: *Terry C. Spradell* 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 44p. 8/22/98	BF-B	HW549	N/A	SL 8/19/98	10 8/19/98	SL	
8/19/98	02:26	—	10.00 V55-92-4 44p. 8/22/98	VOSTD0.10 TITC	HW550	N/A	SL 8/19/98		SL	
8/19/98	03:17	—	10.00 V55-92-4 44p. 8/22/98	VOSTD0.10 TITC	HW551	N/A	SL 8/19/98		SL	
8/19/98	03:52	—	10.00 V55-93-2 44p. 8/22/98	VOSTD0.25 TITC	HW552	N/A	SL 8/19/98		SL	
8/19/98	04:23	—	10.00 V55-93-3 44p. 8/22/98	VOSTD0.50 TITC	HW553	N/A	SL 8/19/98		SL	
8/19/98	04:55	—	10.00 V55-93-4 44p. 8/22/98	VOSTD0.75 TITC	HW554	N/A	SL 8/19/98		SL	
8/19/98	05:27	—	10.00 V55-94-1 44p. 8/22/98	VOSTD1.00 TITC	HW555	N/A	SL 8/19/98		SL	
8/19/98	06:01	—	10.00 V55-92-2 44p. 8/22/98	Blank	HW556	N/A	SL 8/19/98		SL	
8/19/98	06:40	—	10.00 V55-90-2 44p. 8/22/98	VOSTD0.50 TITC	HW557	N/A	SL 8/19/98		SL	Single pt.
8/19/98	07:49	—	10.00 V55-92-2 44p. 8/22/98	VOSTD1.00 TITC	HW558	N/A	SL 8/19/98	10 8/19/98	SL	

Standards		Analyte
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	
US9-43-2	US9-43-2	
MD-1122158 @ 25 ug/mL	MD-1122158 @ 25 ug/mL	

Extract / Sample volume	_____ μ L	_____ mL
Signature	_____	
Date	_____	

Extract / Sample volume _____ mL
Circle unit

Laney C. Stuebel
Signature Date 8/9/08

Triangle Laboratories, Inc.
Run Log

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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-94-3 @ 25ug/ml		

Extract / Sample volume _____ µL mL
Signature Larry Good 8/24/98 Date

Date**	Time**	Project	Sample#	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/21/98	5:22	—	164 USA-92-4 exp 8/24/98	UOSTDO.25 T/TC	EX941	N/A	LG 8/21/98		R	low sensitivity 8/21/98
8/21/98	6:15	—	204 USA-92-3 exp 8/24/98	BFB	EX942	N/A	LG 8/21/98		R	
8/21/98	6:48	—	104 USA-92-3 exp 8/24/98	UOSTDO.10 I/TC	EX943	N/A	LG 8/21/98		R	
8/21/98	7:55	—	104 USA-92-3 exp 8/24/98	UOSTDO.25 T/TC	EX944	N/A	LG 8/21/98		R	
8/21/98	8:58	—	114 USA-93-2 exp 8/24/98	UOSTDO.50 T/TC	EX945	N/A	LG 8/21/98		R	
8/21/98	10:39	—	114 USA-93-2 exp 8/24/98	UOSTDO.75 T/TC	EX946	N/A	LG 8/21/98		R	
8/21/98	10:22	—	114 USA-93-2 exp 8/24/98	UOSTDO.100 T/TC	EX947	N/A	LG 8/21/98		R	
8/21/98	11:10	—	114 USA-93-2 exp 8/24/98	VOSTA1K T/TC	EX948	N/A	LG 8/21/98		R	
8/21/98	11:56	—	114 USA-93-2 exp 8/24/98	VOSTD100 T/TC	EX949	N/A	LG 8/21/98		R	
8/21/98	12:5	—	114 USA-93-2 exp 8/24/98	VOSTD0.50 T/TC	EX950	N/A	LG 8/21/98		R	

Standards			Analyte
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery		
US-93-2 exp 8/21/97 @ 25 ug/ml	US-93-4 exp 5/14/98 @ 75 ug/ml		

Circle unit
µL mL

Date _____

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Triangle Laboratories, Inc.
Run Log

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	826C	V0A-	V0A3	8260B	

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
US4-43-2	US4-45-4		
exp 8/22/48 @ 25 ug/mL	exp 9/4/48 @ 25 ug/mL		

Extract / Sample volume _____ Circle unit
 _____ µL mL
 Signature Larry Gold Date 9/22/48

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/22/48	5:03	—	10u4 US4-45-11 exp 8/22/48	VOSTBLK T/TC	FX961	W1A	LG 8/22/48		LG	Changed lines 19pH low sensitivity at end
8/22/48	6:24	—	10u4 US4-45-4 exp 9/4/48	VOSTBLK T/TC	FX962	W1A	LG 8/22/48		K5	checked return - flow ok. maybe electronic 19pH
8/22/48	7:16	—	10u4 US4-45-4 exp 9/4/48	VOSTBLK T/TC	FX963	W1A	LG 8/22/48		LG	
8/22/48	23:52	—	2u4 US4-46-2 exp 9/4/48	BFB	FX964	W1A	LG 8/23/48		LG	
8/22/48	00:43	—	10u4 US4-45-3 exp 9/4/48	VOSTDO.25 T/TC	FX965	W1A	LG 8/22/48		LG	low sensitivity 19pH
8/22/48	1:34	—	10u4 US4-45-3 exp 9/4/48	VOSTDO.25 T/TC	FX966	W1A	LG 8/22/48		LG	" " 9/10/48
8/22/48	2:28	—	2u4 US4-46-2 exp 9/4/48	BFB	FX967	W1A	LG 8/22/48		LG	
8/22/48	2:59	—	10u4 US4-45-3 exp 9/4/48	VOSTDO.25 T/TC	FX968	W1A	LG 8/22/48		LG	ketones missing 19pH
8/22/48	3:46	—	10u4 US4-45-3 exp 9/4/48	VOSTDO.25 T/TC	FX969	W1A	LG 8/22/48		LG	
8/22/48	4:42	—	2u4 US4-46-2 exp 9/4/48	BFB	FX970	W1A	LG 8/22/48		LG	

* Volatile Data Only ** Transcribed Data *** Dated Signature/Initials Required
 SAVR4APM5RLV.FRMLOG.DOC (10/16/97)

Triangle Laboratories, Inc.
Run Log

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Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	6252663	8260	UOA	UOA3	826DB	926BX

Standards				Extract / Sample volume		Circle unit
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte		_____	_____	_____
US-96-2 @ 75 ug/ml	US-45-4 @ 25 ug/ml			_____	_____	_____

Signature _____ Date 8/24/98

Date**	Time**	Project	Sample #	Client ID	Filename	pH*	Operator/Date	Backup*	Proc	Comments***
8/21/98	5:12	—	1604 US-45-3 exp 8/21/98	VOSTDO.25 T/IT	EX971	n/a	16 8/24/98		16	
8/21/98	5:58	1604 US-46-1 exp 8/21/98	1004 US-45-4 exp 8/21/98	VOSTDO.50 T/IT Add'l Add'l US-45-4 exp 8/21/98	EX972	n/a	16 8/24/98		16	
8/21/98		1604 US-46-1 exp 8/21/98	1004 US-45-4 exp 8/21/98	VOSTDO.50 T/IT	EX973	n/a	16 8/24/98		16	
8/21/98	08:04	—	1004 US-45-4 exp 8/21/98	VOSTDO. T/IT	EX974	n/a	16 8/24/98		16	
8/21/98	09:15	46323	214-27-5A,B	T-V-2-1-A,B T/IT	EX975	n/a	16 8/24/98		16	
8/21/98	10:02	46323	214-27-6A,B	T-V-2-2-A,B T/IT	EX976	n/a	16 8/24/98		16	
8/21/98	10:49	46323	214-27-7A,B	T-V-2-3-A,B T/IT	EX977	n/a	16 8/24/98		16	
8/21/98	11:35	46323	214-27-8A,B	T-V-2-4-A,B T/IT	EX978	n/a	16 8/24/98		16	
8/21/98	12:14	46323	214-27-16A,B	T-V-3-1-A,B T/IT	EX979	n/a	16 8/24/98		16	
8/24/98	13:02	46323	214-27-17A,B	T-V-3-2-A,B T/IT	EX980	n/a	16 8/24/98		16	

Triangle Laboratories, Inc.
Run Log

12

Column Type	Column #	Analysis*	Acquisition Method	GC Method*	Find DBs*	Other*
DB624	625263	82600	V04	V043	82600	8260X

Standards			
Internal / Surrogate / Recovery	Internal / Surrogate / Recovery	Analyte	
V35-26.2	V35-45.1		
46.17/48 @ 25ug/hr	46.17/48 @ 25ug/hr		

Extract / Sample volume _____ µL mL
 Signature: *Looney C. Spradley* Date: 8/24/98

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 + 17C		EX981	N/A	AL 8/24/98		1	
8/24/98	13:52	46323	214-27-18AB-V-4-3-A, B + 17C		EX982	N/A	AL 8/24/98		1	Acquisition failure due to DMA
8/24/98	15:31	46323	214-27-38AB-V-4-4-A, B + 17C		EX983	N/A	AL 8/24/98		1	Temperature broken will check and return out in working order 8/24/98

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

Triangle Laboratories, Inc.

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

Savar v3.7

Printed: 16:48 08/25/1998

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
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 ₅		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 ₄		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 ₈	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.

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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

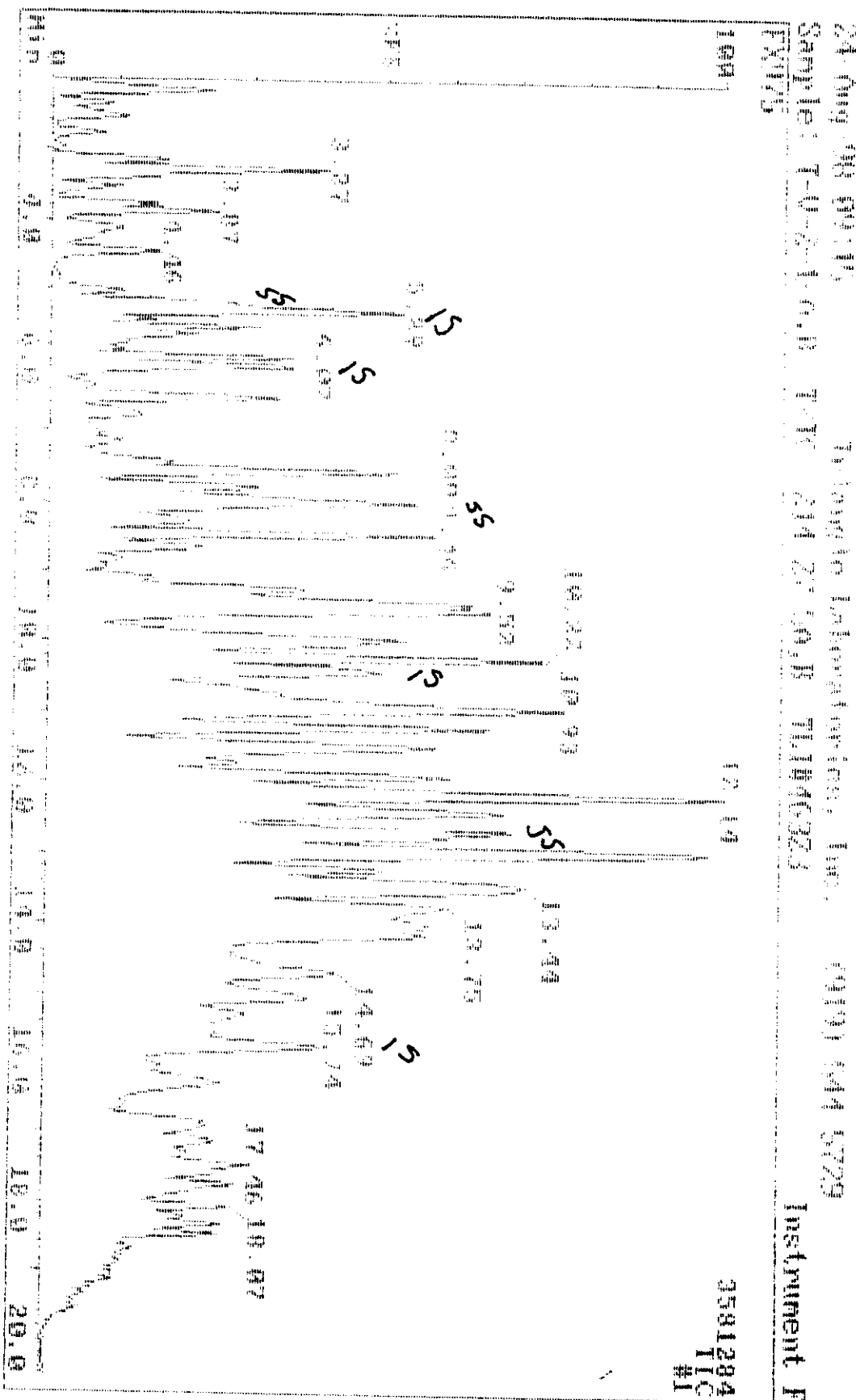
NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

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

Triangle Laboratories, Inc.
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Data Review: GAB
Date: 8/24/98

NO	401	FOR	REV	DEL	24	AREA	P	FILE	2T	AM	NAME
1	100	69	21	-3		3152002	180		5.301	154	Perfluorobenzene
2	100	35	26	0		3025184	2W		6.171	114	1,4-Difluorobenzene
3	35	57	26	0		5009848	1W		0.151	117	Chlorobenzene (b)
4	23	57	25	-1		1570568	0		15.742	152	1,2-Dichlorobenzene (b)
5	21	55	28	1		1085120	10		1.131	117	Ortho-Dichlorobenzene
6	22	70	21	1		4202850	2W		8.901	98	Toluene (b)
7	22	40	20	0		1567204	2W		12.171	95	1,3-Difluorobenzene
8	0	0	0	0		0			0.000	85	Benzene (b)
9	0	0	0	0		108609	(M) PAB		1.09	30	Chlorobenzene
10	0	0	0	0		0			0.000	62	4-Methylchlorobenzene
11	56	37	5	0		105268			0.000	94	Benzonitrile
12	0	0	0	0		0			0.000	59	Chlorobenzene
13	0	0	0	0		140672	(M) PAB		2.06	101	1,2-Dichlorobenzene (b)
14	0	0	0	0		0			0.000	96	1,3-Dichlorobenzene
15	0	0	0	0		0			0.000	107	1,4-Dichlorobenzene
16	30	20	0	-1		11120			1.120	104	Fluorobenzene (b)
17	29	50	0	0		1112			1.12	47	Benzene
18	0	0	0	0		0			0.000	61	1,2-Dichlorobenzene
19	27	55	1	0		112035			1.12	25	4-Methylchlorobenzene
20											(P) PAB
21	0	0	0	0		0			0.000	40	1,2-Dichlorobenzene (b)
22	0	0	0	0		0			0.000	21	1,3-Dichlorobenzene
23	0	0	0	0		0			0.000	11	Methylbenzene
24	0	0	0	0		0			0.000	7	1,2-Dichlorobenzene (b)
25	0	0	0	0		0			0.000	96	1,3-Dichlorobenzene (b)
26											(P) PAB
27	0	0	0	0		0			0.000	37	1,4-Dichlorobenzene
28	0	0	0	0		0			0.000	129	Fluorobenzene (b)
29	0	0	0	0		0			0.000	22	1,2-Dichlorobenzene (b)
30	0	0	0	0		0			0.000	117	Chlorobenzene (b)
31	0	0	0	0		0			0.000	75	1,2-Dichlorobenzene (b)
32	100	27	27	0		1261344	2W		8.521	78	Benzene
33	0	0	0	0		0			0.000	52	1,2-Dichlorobenzene
34	0	0	0	0		0			0.000	130	Trichlorobenzene
35	0	0	0	0		0			0.000	63	1,2-Dichlorobenzene (b)
36	0	0	0	0		0			0.000	95	Chlorobenzene (b)
37	0	0	0	0		0			0.000	41	Perfluorobenzene (b)
38	0	0	0	0		0			0.000	87	Chlorobenzene (b)
39	0	0	0	0		0			0.000	75	1,2-Dichlorobenzene (b)
40											(P) PAB
41	100	30	20	1		1122372	10		1.101	43	4-Methylchlorobenzene
42	0	0	0	0		0			0.000	22	5-Methylchlorobenzene
43	0	0	0	0		0			0.000	79	1,2-Dichlorobenzene (b)
44	0	0	0	0		0			0.000	27	1,2-Dichlorobenzene
45	0	0	0	0		0			0.000	62	4-Methylchlorobenzene
46	0	0	0	0		0			0.000	76	1,3-Dichlorobenzene
47											(P) PAB
48	0	0	0	0		0			0.000	43	Chlorobenzene
49	0	0	0	0		0			0.000	122	Chlorobenzene (b)
50	0	0	0	0		0			0.000	107	1,2-Dichlorobenzene
51	0	0	0	0		0			0.000	112	Chlorobenzene

Data Review: PAB
Date: 8/24/98

No.	MOI	FOR	REV	Unit	Mass	Charge	RT	MS Name
51	0	0	0	0	0	0	0.000	071 1,1,1,2-Tetrachloroethane
52	41	20	47	0	006570	bb	0.001	006 Ethylbenzene
53	0	0	0	0	689472	(M) PAH	10.93	006 m-Xylene
54	0	0	0	0	92880	(M) PAH	11.64	006 o-Xylene
55	0	0	0	0	0	0	0.000	014 Toluene
56	0	0	0	0	0	0	0.000	073 Bromoform
57	0	0	0	0	0	0	0.000	101 Chlorine
58	0	0	0	0	0	0	0.000	001 Chloroform
59	0	0	0	0	0	0	0.000	001 1,1,1,2,2,2-Hexachloroethane
60	0	0	0	0	0	0	0.000	006 Anthracene
61	0	0	0	0	0	0	0.000	006 1,2,3-Trichlorobenzene
62	0	0	0	0	0	0	0.000	006 m-Ethylbenzene
63	0	0	0	0	0	0	0.000	006 1,2-Dichlorobenzene
64	0	0	0	0	0	0	0.000	006 1,3-Dichlorobenzene
65	0	0	0	0	0	0	0.000	006 1,4-Dichlorobenzene
66	0	0	0	0	0	0	0.000	006 1,2,4-Trichlorobenzene
67	0	0	0	0	0	0	0.000	006 1,3,5-Trichlorobenzene
68	0	0	0	0	0	0	0.000	006 1,2,4,5-Tetrachlorobenzene
69	0	0	0	0	0	0	0.000	006 1,2,3,4-Tetrachlorobenzene
70	0	0	0	0	0	0	0.000	006 1,2,3,5-Tetrachlorobenzene
71	0	0	0	0	0	0	0.000	006 1,2,3,6-Tetrachlorobenzene
72	0	0	0	0	0	0	0.000	006 1,2,4,6-Tetrachlorobenzene
73	0	0	0	0	0	0	0.000	006 1,2,3,4,5-Pentachlorobenzene
74	0	0	0	0	0	0	0.000	006 1,2,3,4,6-Pentachlorobenzene
75	0	0	0	0	0	0	0.000	006 1,2,3,5,6-Pentachlorobenzene
76	0	0	0	0	0	0	0.000	006 1,2,3,4,5,6-Hexachlorobenzene
77	0	0	0	0	0	0	0.000	006 1,2,3,4,5,6-Hexachlorocyclopentadiene
78	0	0	0	0	0	0	0.000	006 1,2,3,4,5,6-Hexachlorocyclopentadiene
79	0	0	0	0	0	0	0.000	006 1,2,3,4,5,6-Hexachlorocyclopentadiene

No.	MAT	FOR	REV	Delta	Area	P.F	Flags	RT	QM	Name
1	100	64	97	1	3152308	bb		5.301	168	Pentafluorobenzene
2	100	85	96	0	3294184	bv		6.071	114	1,4-Difluorobenzene
3	97	69	86	0	3603540	bw		10.561	117	Chlorobenzene-15
4	82	37	95	0	1523368	A		13.712	132	1,4-Dichlorobenzene-14
5	96	51	98	0	1083120	bb		5.181	115	Dibromofluorobenzene
6	100	75	91	0	4203836	bv		8.001	98	Toluene-13
7	75	46	90	1	1667254	vv		12.671	95	4-Bromofluorobenzene
8	62	32	91	1	3357993	A	SP PAR	1.111	39	1,3-Subadiene
9	9	0	0	0	0			0.000	106	Benzyl bromide
10	82	66	91	1	37883	bw		3.620	75	4TBP
11	100	97	99	-1	1836980	bb	SP PAR	3.820	57	m-Besene
12	80	31	88	1	33111	bw		9.866	40	1,2-Diphenylbenzene
13	80	57	91	0	611102	bw	SP PAR	5.681	37	Acenaphthene
14	81	36	87	1	161738	bw		1.821	31	1,2-Diphenylbenzene

24-Aug-98 09:15

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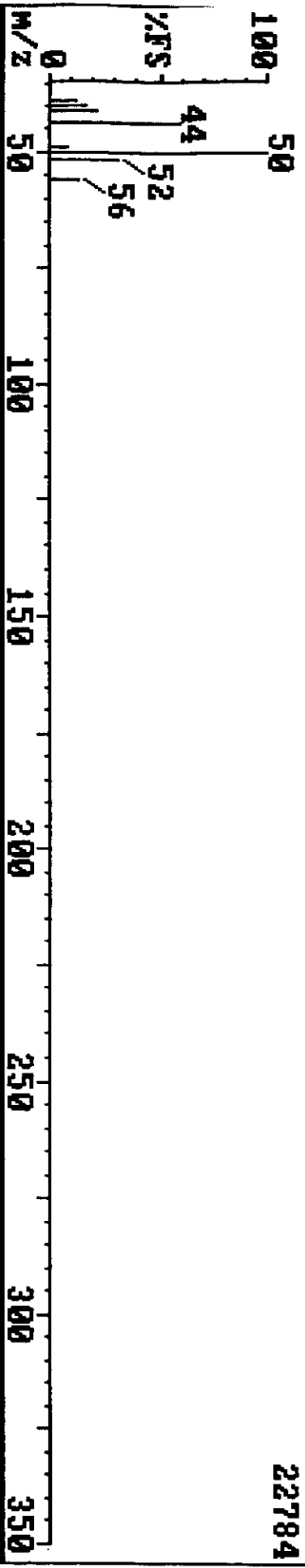
(919) 544-5729

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

Instrument F

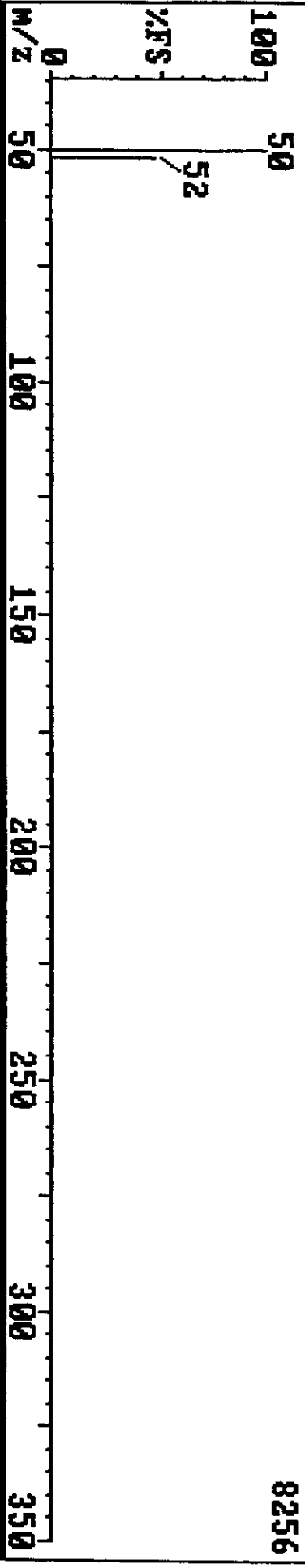
FX975 109 (1.090)

22784



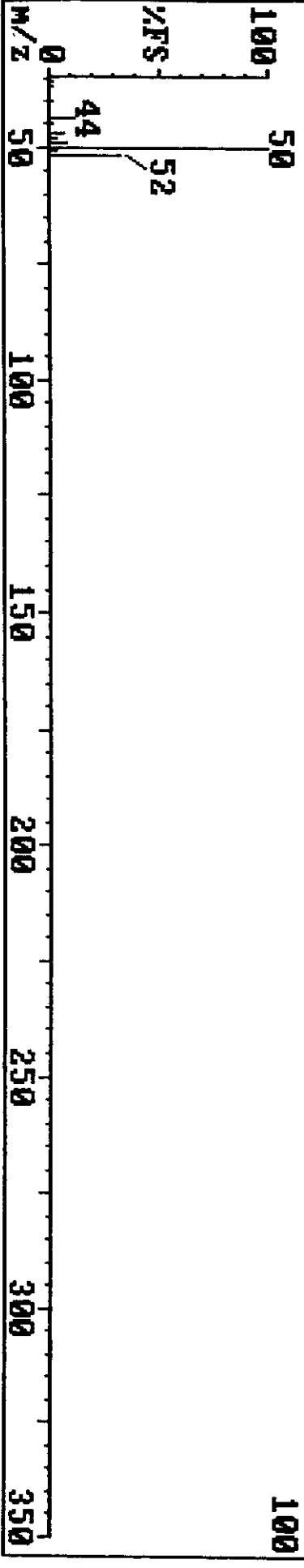
FX975 109 (1.091) REFINE

8256



8260 9 (1.230) Chloromethane

FIND



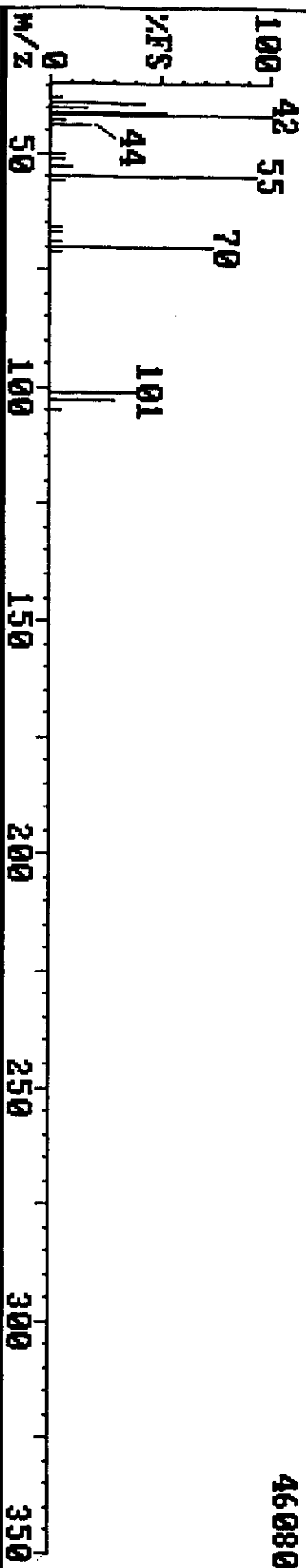
24-Aug-98 09:15

Triangle Laboratories, Inc. (919) 544-5729

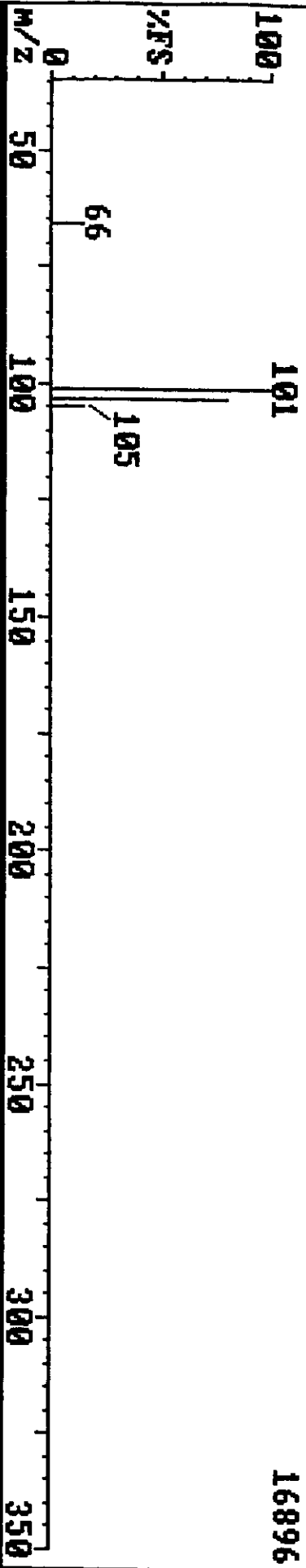
Sample: T-U-2-1-A,B T/TC 214-27-5A,B TL#46323

Instrument F

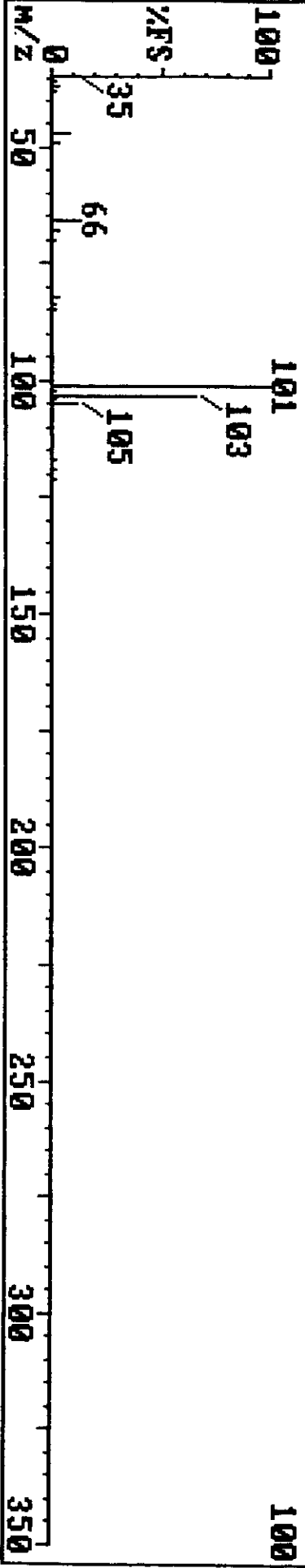
FX975 206 (2.060)



FX975 206 (2.061) REFINE



8260 13 (2.300) Trichlorofluoromethane



24-Aug-90 09:15

Perkin-Elmer, Inc.

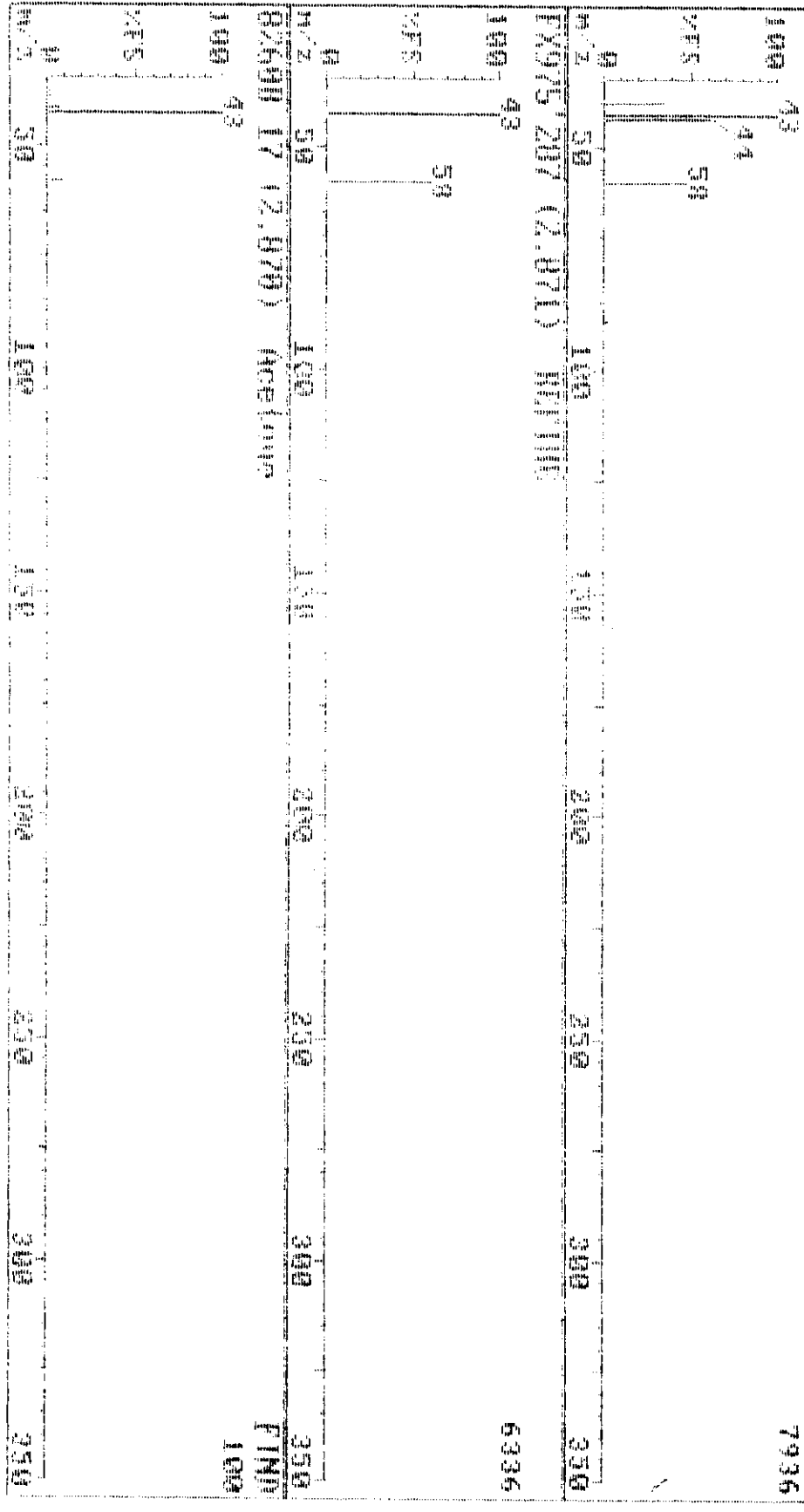
640 544-5729

Sample: 1021A

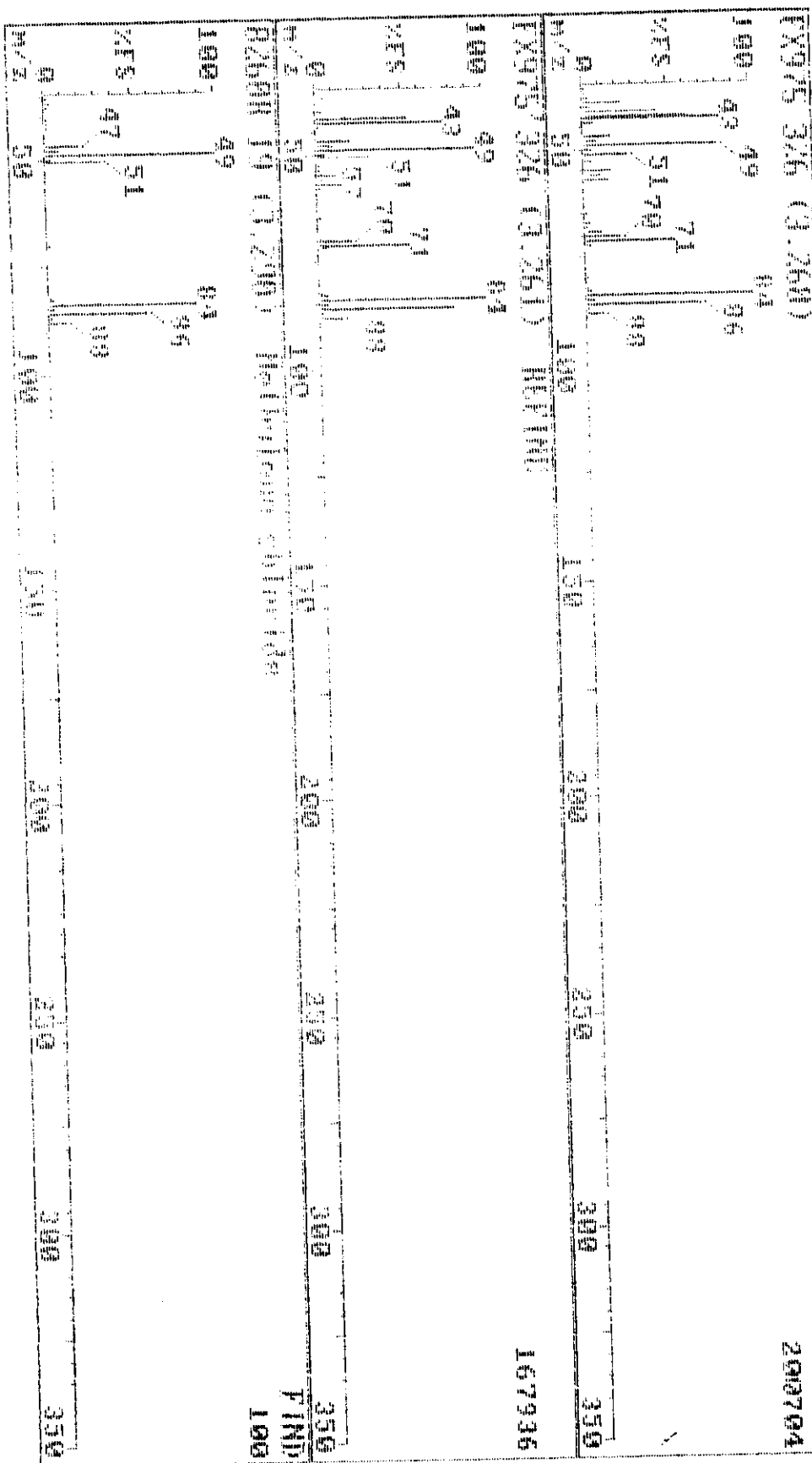
170 24 27 40 1146323

Instrument F

1705 207 (2.070)



24 Aug 59 00:45
 Sample: T-V-2-1-0-1
 T-10 24-27 50.0
 T-146373
 Instrument F



7A-400-50 00000

7A-400-50 00000

Instrument F

Sample: T-02-100

100 200 300 400 500 600 700 800 900 1000

Instrument F

PX05 50Z (5.5Z)

100

540672

XTS

0

50

77

100

150

200

250

300

350

400

450

500

550

600

650

700

750

800

PX05 50Z (5.5Z) 10000

100

512000

XTS

0

50

77

100

150

200

250

300

350

400

450

500

550

600

650

700

750

800

PX05 50Z (5.5Z) 10000

100

512000

XTS

0

50

77

100

150

200

250

300

350

400

450

500

550

600

650

700

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800

PX05 50Z (5.5Z) 10000

100

512000

24-Aug-98 00:45

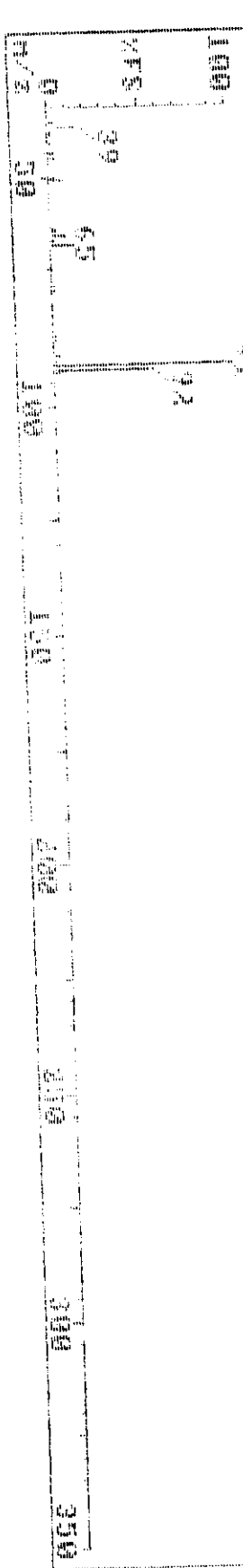
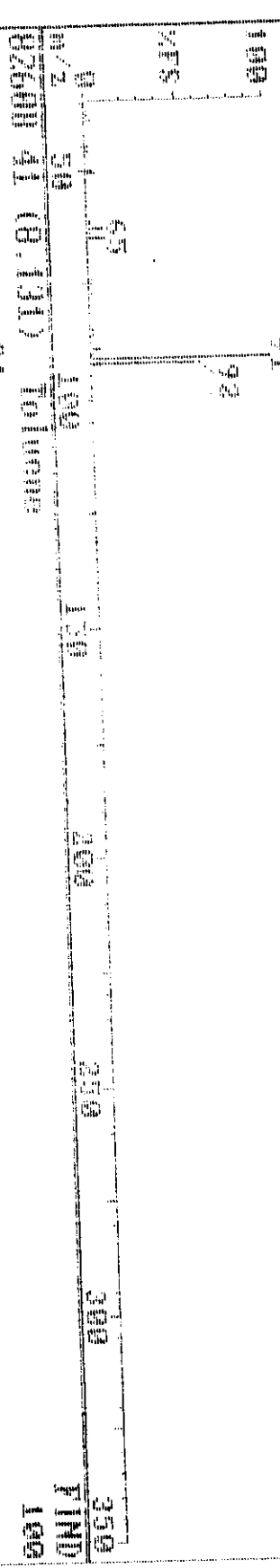
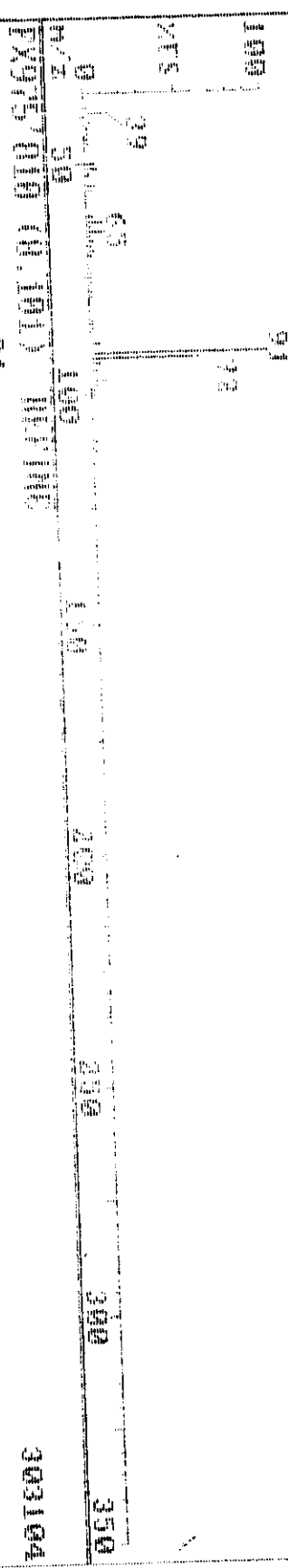
Sample: 14210.D 140 24 25 50.0 T 140320

(919) 544-5720

Instrument F

EX75 816 (0.100)

331776



24-Aug-98 09:15

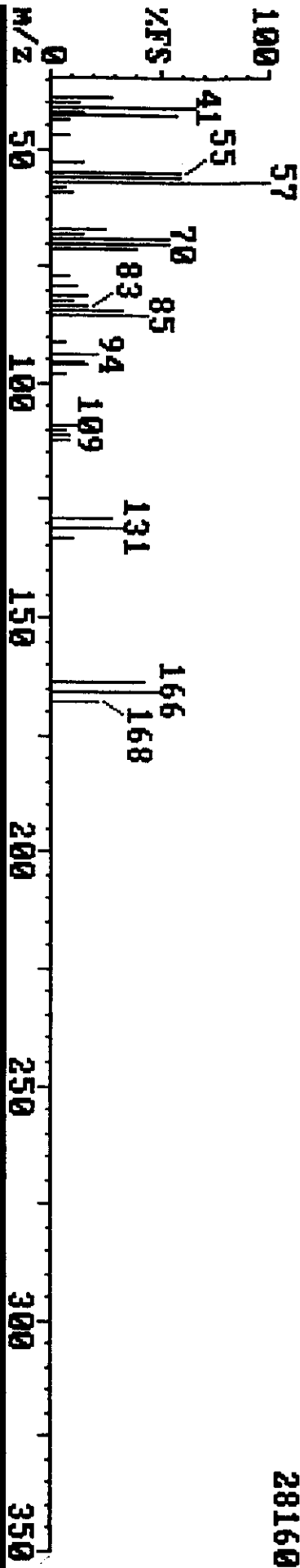
Triangle Laboratories, Inc.

(919) 544-5729

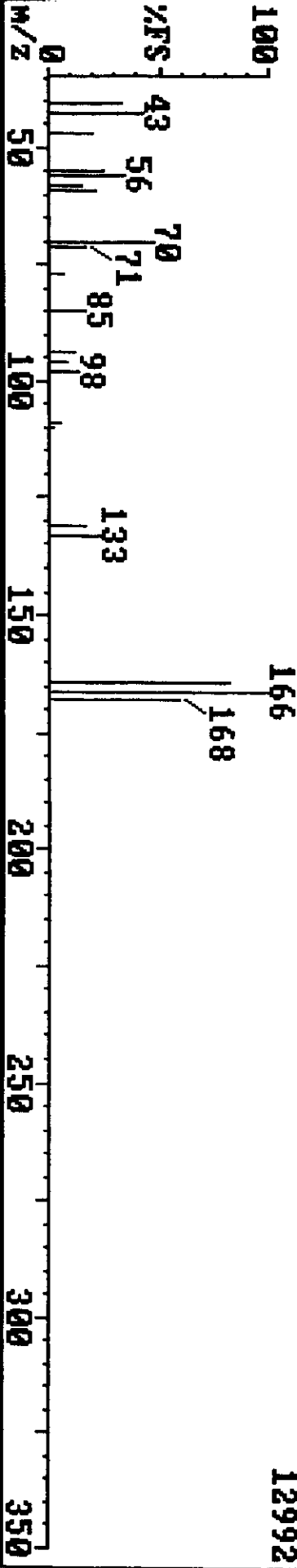
Sample: T-4-2-1-A,B T/TC 214-27-5A,B TL#46323

Instrument F

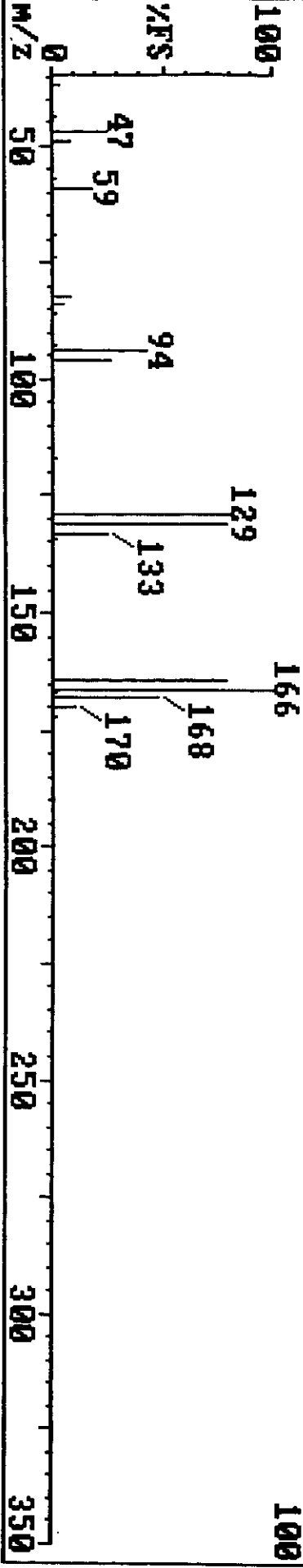
FX975 892 (8.921)



FX975 892 (8.921) REFINE



8260 35 (9.531) Tetrachloroethene



FIND

100

24-000-00 00:00
 000000 1000000000

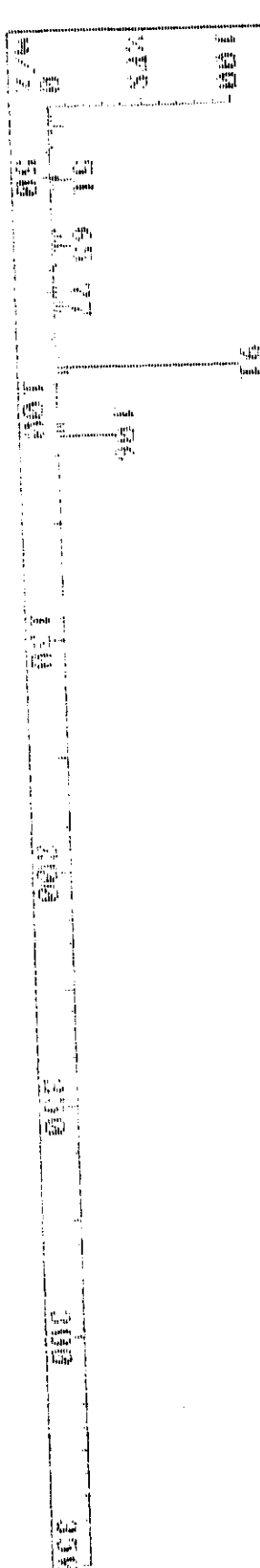
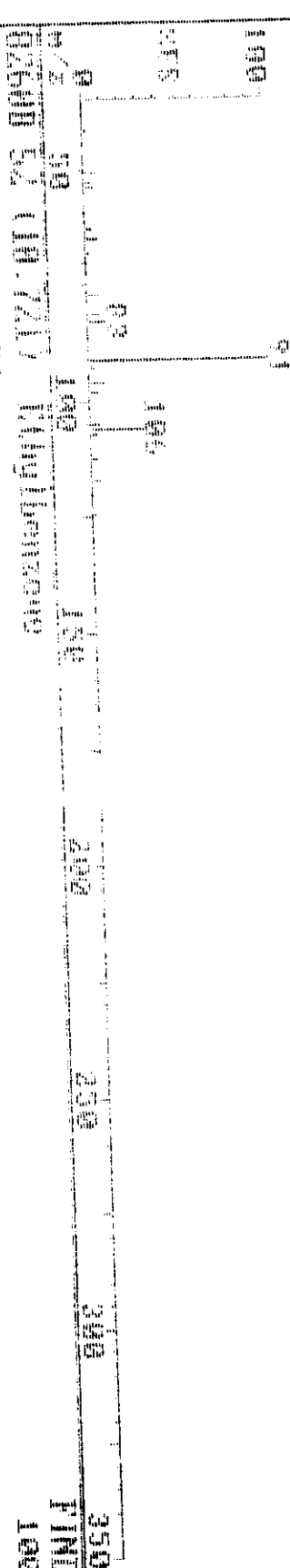
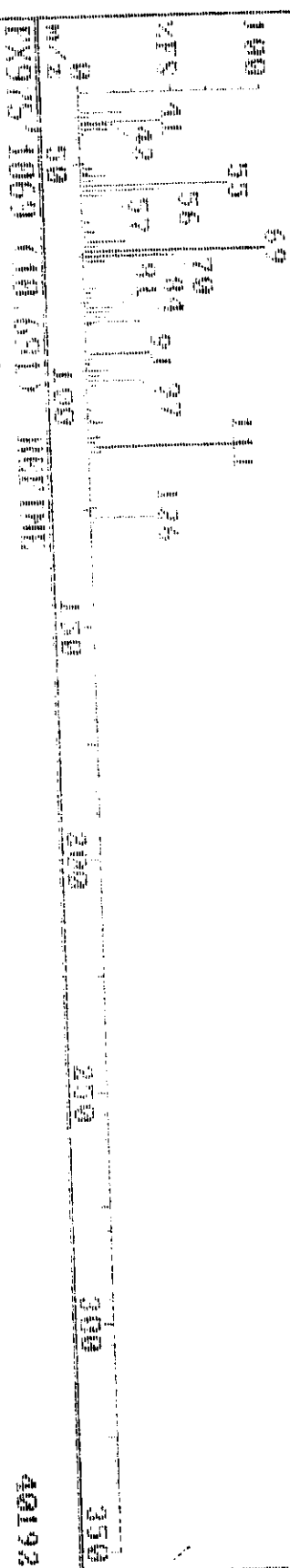
Instrument 1000000000
 000000 1000000000

0000 000000

Instrument 1

FX975 1000 (000000)

139264



24-Aug-98 09:15

Triangle Laboratories, Inc.

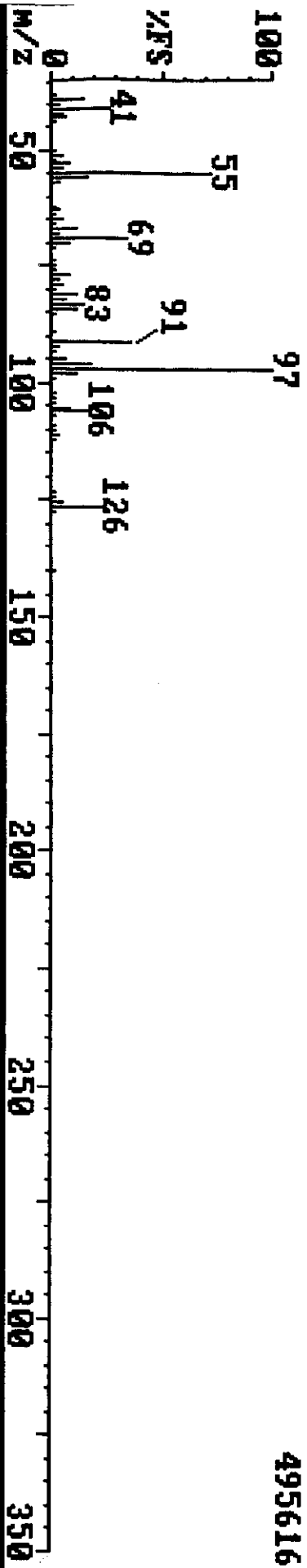
(919) 544-5729

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

Instrument F

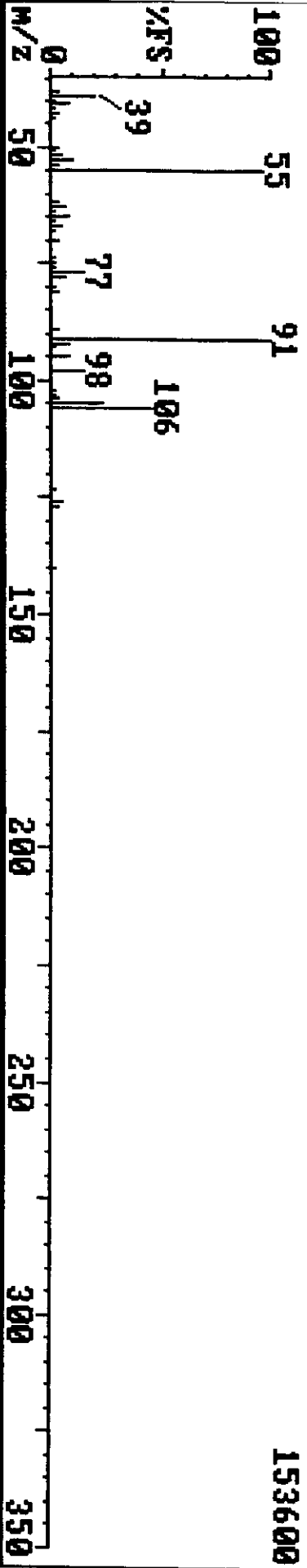
FX975 1093 (10.931)

495616



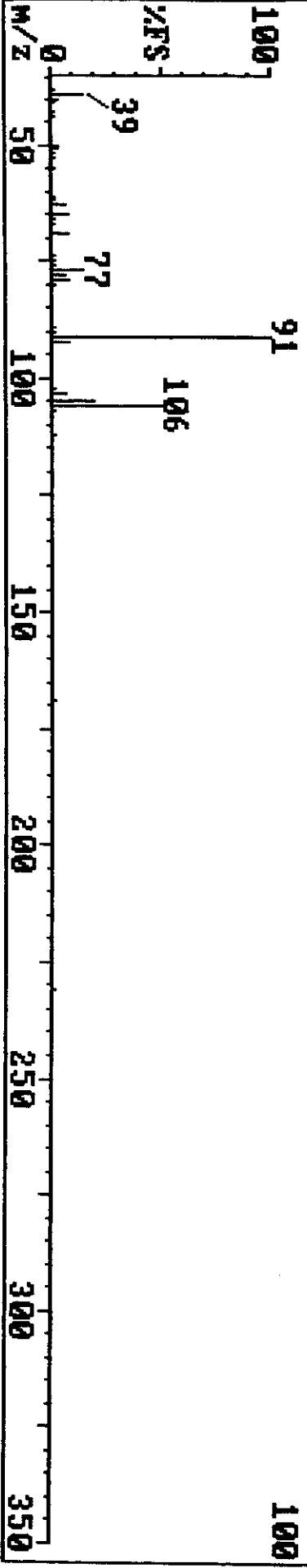
FX975 1093 (10.931) REFINE

153600



8260 42 (11.581) m-/p-Xylene

FIND 100



24-Aug-98 09:15

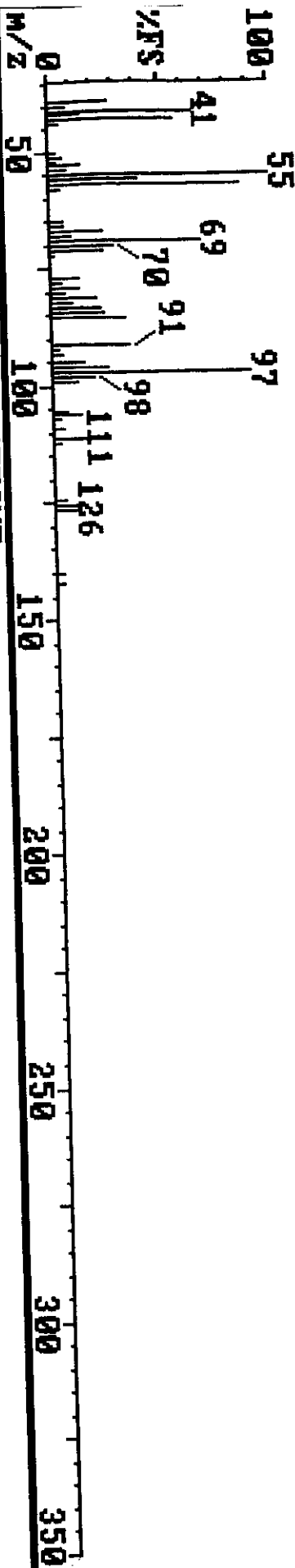
Triangle Laboratories, Inc. (919) 544-5729

Instrument F

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

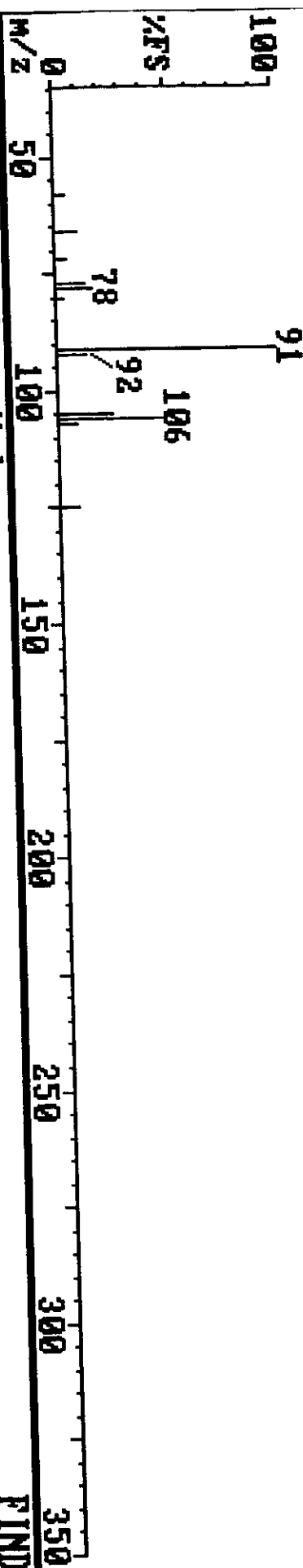
FX975 1164 (11.641)

77824



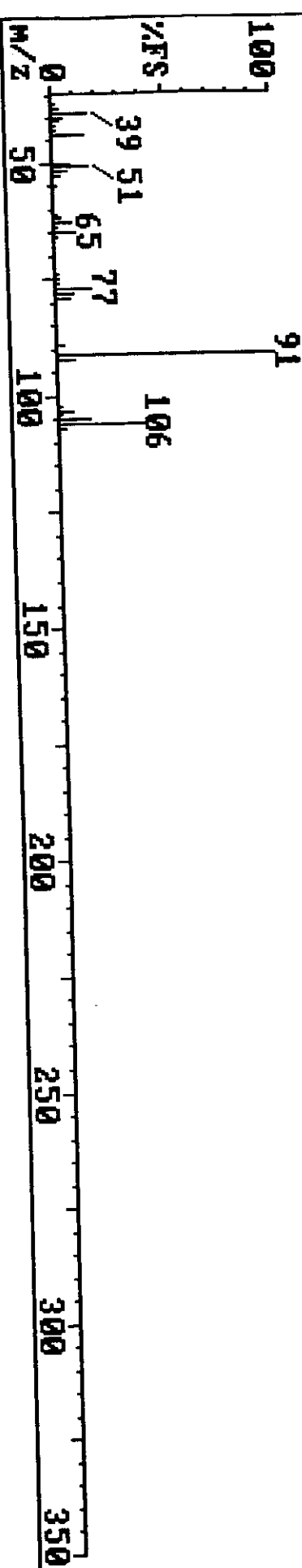
FX975 1164 (11.641) REFINE

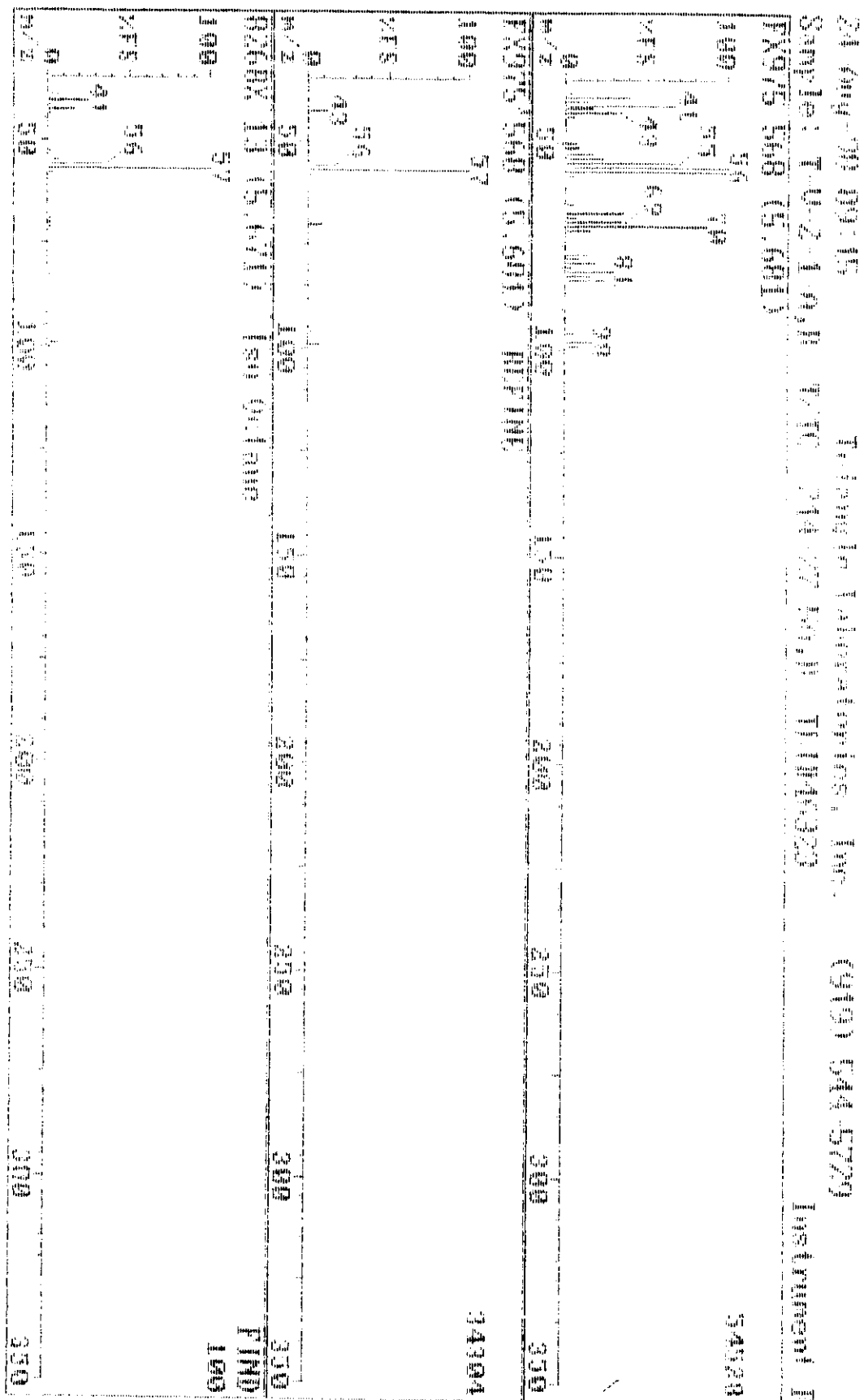
20480



8260 43 (12.321) o-Xylene

FIND 100





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: ICALE821

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.32		0.05
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		0.05
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

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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: 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 ₅		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 ₄		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

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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 ₈	0.268	8.03	2	107
4-Bromofluorobenzene	0.316	12.70	2	126

Reviewed by ParB 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

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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Printed: 17:21 08/25/1998

to	not	FOR	REV	Delta	Unit	Flags	RT	QID	Sample
1	100	65	30	41	1470260	bb	5.1311	148	1,4-dichlorobenzene
2	100	80	34	3	1503210	bb	6.1001	149	1,4-dichlorobenzene
3	99	70	37	2	1500300	bb	10.0021	152	1,4-dichlorobenzene
4	97	15	36	1	1531150	bb	15.0002	153	1,4-dichlorobenzene
5	93	67	37	1	1178060	bb	5.0001	114	1,4-dichlorobenzene
6	100	70	35		1600170	bb	8.0001	98	1,4-dichlorobenzene
7	77	64	10	2	1717101	bb	12.2001	75	1,4-dichlorobenzene
8	0	0	0	0	0		0.0000	33	1,4-dichlorobenzene
9	0	0	0	0	196794	(M) PAB	1.09	50	1,4-dichlorobenzene
10	0	0	0	0	0		0.0000	52	1,4-dichlorobenzene
11	99	20	63	5	1717101	bb	1.0000	76	1,4-dichlorobenzene
12	0	0	0	0	0		0.0000	64	1,4-dichlorobenzene
13	0	0	0	0	117504	(M) PAB	2.07	91	1,4-dichlorobenzene
14	0	0	0	0	0		0.0000	98	1,4-dichlorobenzene
15	0	0	0	0	0		0.0000	140	1,4-dichlorobenzene
16	40	63	74	1	1000000	bb	0.0000	152	1,4-dichlorobenzene
17	80	40	77	1	1000000	bb	0.0000	41	1,4-dichlorobenzene
18	0	0	0	0	0		0.0000	41	1,4-dichlorobenzene
19	0	0	0	0	0		0.0000	25	1,4-dichlorobenzene
20	0	0	0	0	0		0.0000	15	1,4-dichlorobenzene
21	0	0	0	0	0		0.0000	3	1,4-dichlorobenzene
22	0	0	0	0	0		0.0000	27	1,4-dichlorobenzene
23	0	0	0	0	0		0.0000	47	1,4-dichlorobenzene
24	0	0	0	0	0		0.0000	57	1,4-dichlorobenzene
25	0	0	0	0	0		0.0000	77	1,4-dichlorobenzene
26	0	0	0	0	0		0.0000	94	1,4-dichlorobenzene
27	99	1	74	3	1000000	bb	4.2001	30	1,4-dichlorobenzene
28	0	0	0	0	0		0.0000	57	1,4-dichlorobenzene
29	0	0	0	0	0		0.0000	60	1,4-dichlorobenzene
30	0	0	0	0	0		0.0000	67	1,4-dichlorobenzene
31	0	0	0	0	0		0.0000	67	1,4-dichlorobenzene
32	100	98	99	0	1670000	bb	3.5001	78	1,4-dichlorobenzene
33	0	0	0	0	0		0.0000	62	1,4-dichlorobenzene
34	0	0	0	0	0		0.0000	150	1,4-dichlorobenzene
35	0	0	0	0	0		0.0000	60	1,4-dichlorobenzene
36	0	0	0	0	0		0.0000	78	1,4-dichlorobenzene
37	0	0	0	0	0		0.0000	41	1,4-dichlorobenzene
38	0	0	0	0	0		0.0000	33	1,4-dichlorobenzene
39	0	0	0	0	0		0.0000	75	1,4-dichlorobenzene
40	0	0	0	0	0		0.0000	43	1,4-dichlorobenzene
41	100	91	90	0	2095040	bb	8.121	92	1,4-dichlorobenzene
42	0	0	0	0	0		0.0000	75	1,4-dichlorobenzene
43	0	0	0	0	0		0.0000	97	1,4-dichlorobenzene
44	0	0	0	0	0		0.0000	62	1,4-dichlorobenzene
45	91	47	35	0	209504	bb	8.961	164	1,4-dichlorobenzene
46	0	0	0	0	0		0.0000	76	1,4-dichlorobenzene
47	0	0	0	0	0		0.0000	43	1,4-dichlorobenzene
48	0	0	0	0	0		0.0000	129	1,4-dichlorobenzene
49	0	0	0	0	0		0.0000	107	1,4-dichlorobenzene
50	0	0	0	0	0		0.0000	117	1,4-dichlorobenzene

Data Review: PAB
Date: 8/24/98

NO. MAT FOR REV D-111					Area 7 Flags	RF	Q13 Name
51	0	0	0	0	0	0.000	151 1,1,1,2-Tetra chloro methane
52	0	0	0	0	168176 LW	10.721	152 Ethylbenzene
53	100	74	93	-1	4226200 WV	10.951	153 m-Xylene
54	0	0	0	1	2876100 BO	11.631	154 o-Xylene
55	0	0	0	0	560928 W PAB	0.000 11.73	155 Toluene
56	0	0	0	0	0	0.000	156 Bromobenzene
57	1	0	0	0	0	0.000	157 Cumene
58	0	0	0	0	0	0.000	158 1,1,1,2-Tetra chloro methane
59	0	0	0	0	0	0.000	159 Bromobenzene
60	0	0	0	0	0	0.000	160 1,1,2,2-Tetra chloro ethane
61	0	0	0	0	0	0.000	161 m-Xylene
62	50	10	77	-32	732000 BO	12.421	162 1,2-Dichloro ethane
63	0	0	0	0	0	0.000	163 1,2-Dichloro ethane
64	0	0	0	0	0	0.000	164 1,2-Dichloro ethane
65	40	0	31	-32	1093000 WV	13.422	165 1,2-Dichloro ethane
66	0	0	0	0	0	0.000	166 1,2-Dichloro ethane
67	40	0	27	0	1093000 WV	14.422	167 1,2-Dichloro ethane
68	0	0	0	1	1311000 WV	15.422	168 1,2-Dichloro ethane
69	74	0	0	3	4240000 WV	16.422	169 1,2-Dichloro ethane
70	0	0	0	0	0	0.000	170 1,2-Dichloro ethane
71	0	0	0	0	0	0.000	171 1,2-Dichloro ethane
72	0	0	0	0	0	0.000	172 1,2-Dichloro ethane
73	0	0	0	0	0	0.000	173 1,2-Dichloro ethane
74	0	0	0	0	0	0.000	174 1,2-Dichloro ethane
75	0	0	0	0	0	0.000	175 1,2-Dichloro ethane
76	0	0	0	0	0	0.000	176 1,2-Dichloro ethane
77	0	0	0	0	0	0.000	177 1,2-Dichloro ethane
78	0	0	0	0	0	0.000	178 1,2-Dichloro ethane
79	0	0	0	0	0	0.000	179 1,2-Dichloro ethane

NO	REF	PRM	REF	Ref Val	Area	FL g/g	AT	QM Name
1	99	1.1	1.1	7	1000000	100	1.1	1.1
2	100	1.1	1.1	0	115.1214	100	1.1	1.1
3	100	1.1	1.1	0	1000000	100	1.1	1.1
4	100	1.1	1.1	0	1000000	100	1.1	1.1
5	100	1.1	1.1	0	115.1214	100	1.1	1.1
6	100	1.1	1.1	0	115.1214	100	1.1	1.1
7	100	1.1	1.1	0	115.1214	100	1.1	1.1
8	100	1.1	1.1	0	115.1214	100	1.1	1.1
9	100	1.1	1.1	0	115.1214	100	1.1	1.1
10	100	1.1	1.1	0	115.1214	100	1.1	1.1
11	100	1.1	1.1	0	115.1214	100	1.1	1.1
12	100	1.1	1.1	0	115.1214	100	1.1	1.1
13	100	1.1	1.1	0	115.1214	100	1.1	1.1
14	100	1.1	1.1	0	115.1214	100	1.1	1.1

SP PAR

SP PAR

SP PAR

24-Aug-98 10:02

Triangle Laboratories, Inc.

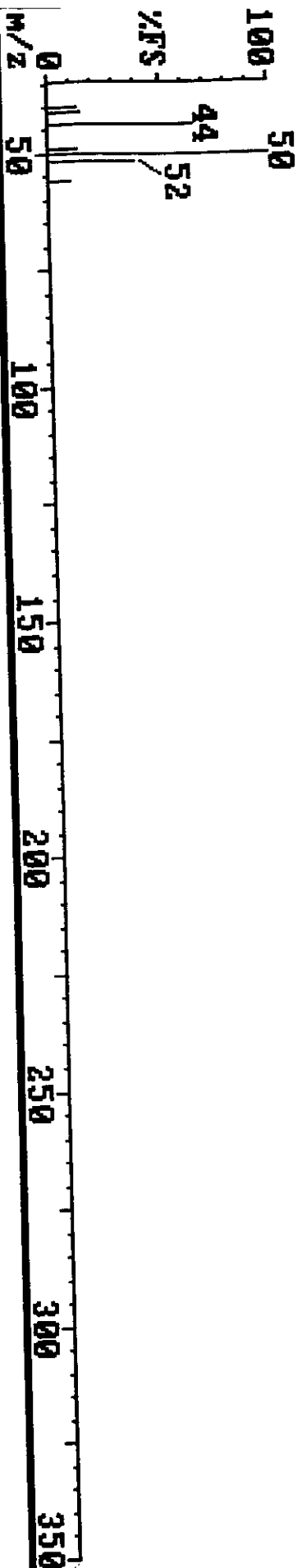
(919) 544-5729

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

Instrument F

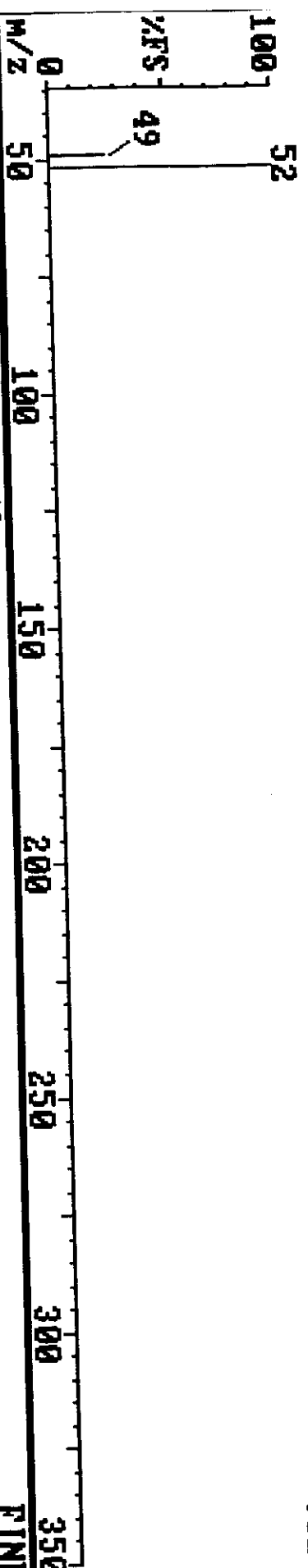
FX976 109 (1.090)

27136



FX976 109 (1.091) REFINE

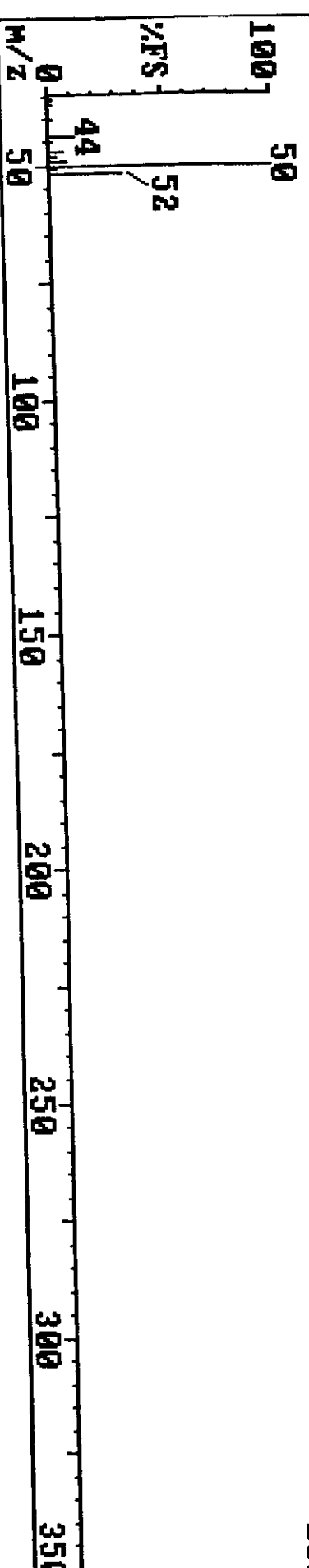
7616

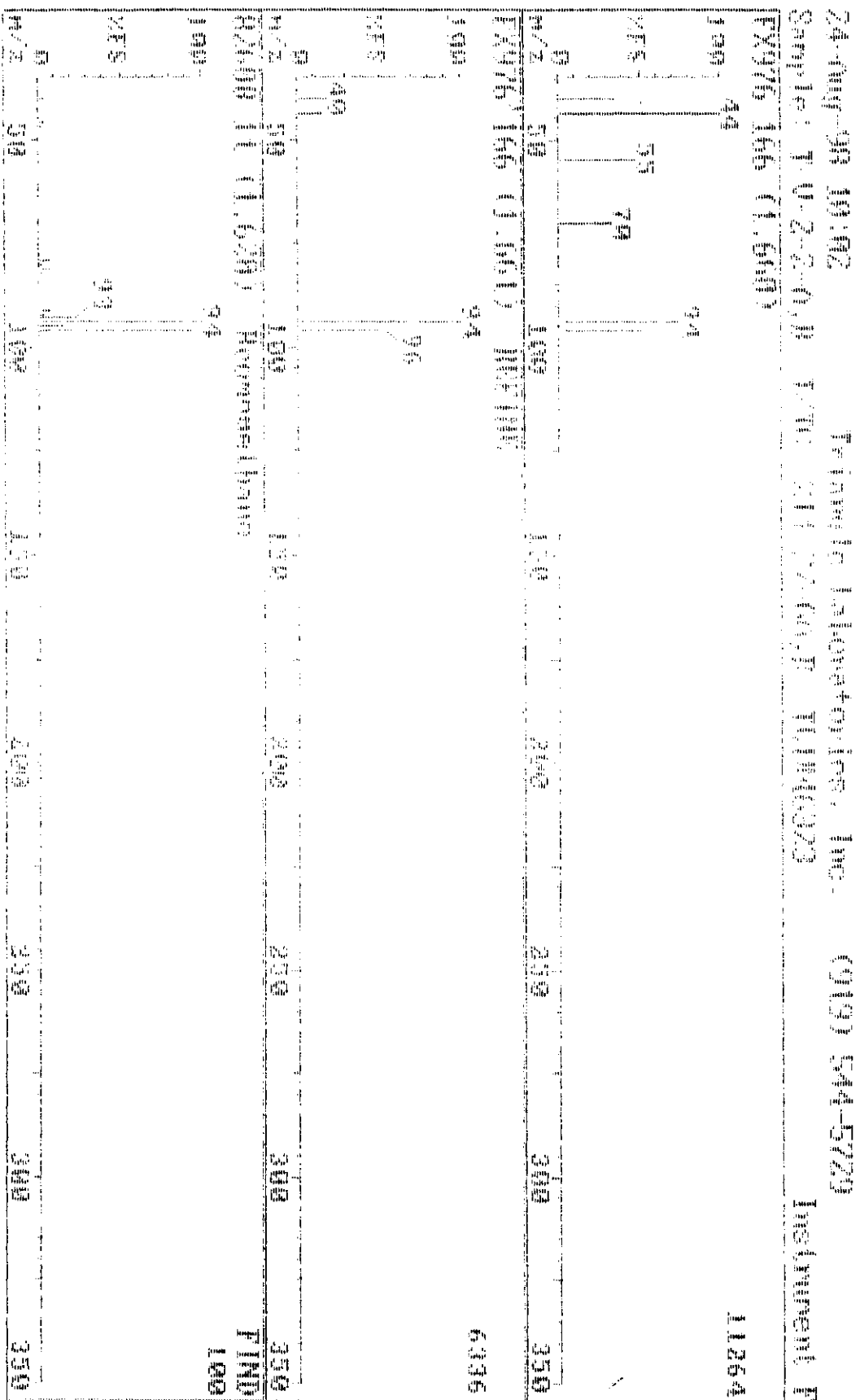


8260 9 (1.230) Chloromethane

FIND

100





24-Aug-98 10:02

Triangle Laboratories, Inc.

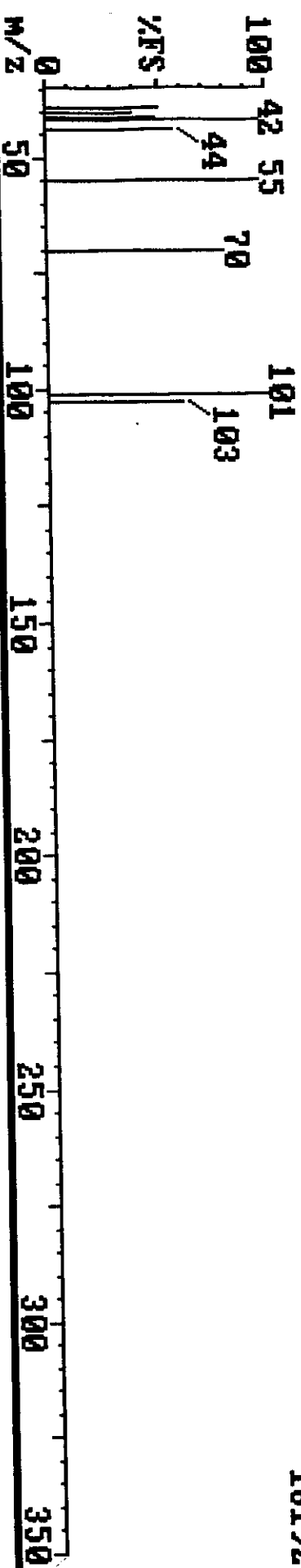
(919) 544-5729

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

Instrument F

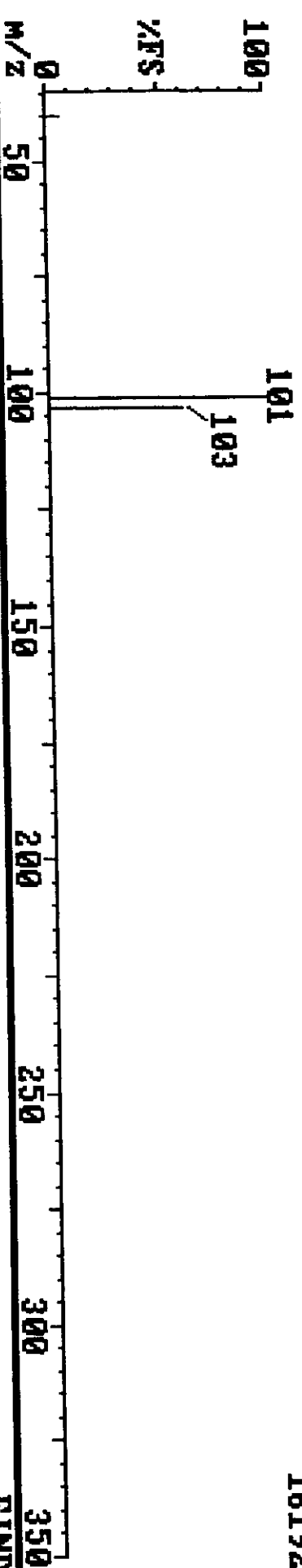
FX976 207 (2.070)

16192



FX976 207 (2.071) REFINE

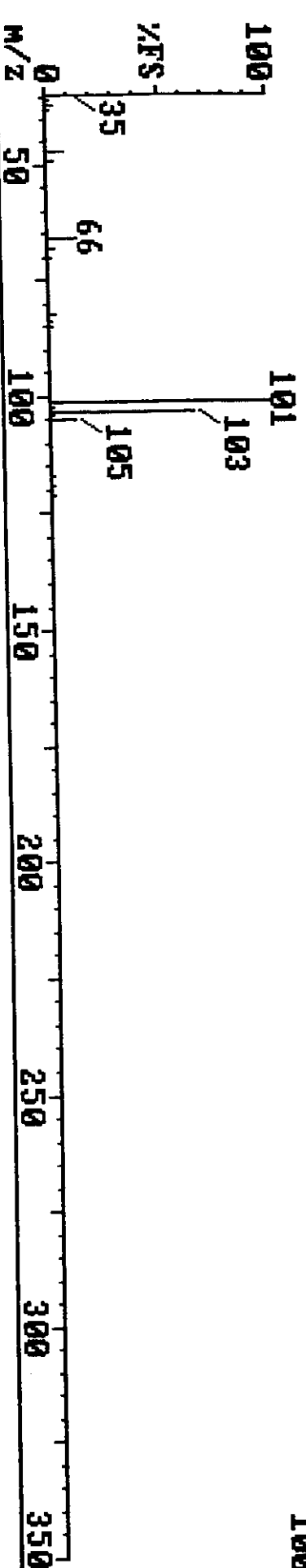
16192



8260 13 (2.300) Trichlorofluoromethane

FIND

100



24-Aug-98 10:42

Sample: T-U2-2-0.0

File: T-U2-2-0.0.D

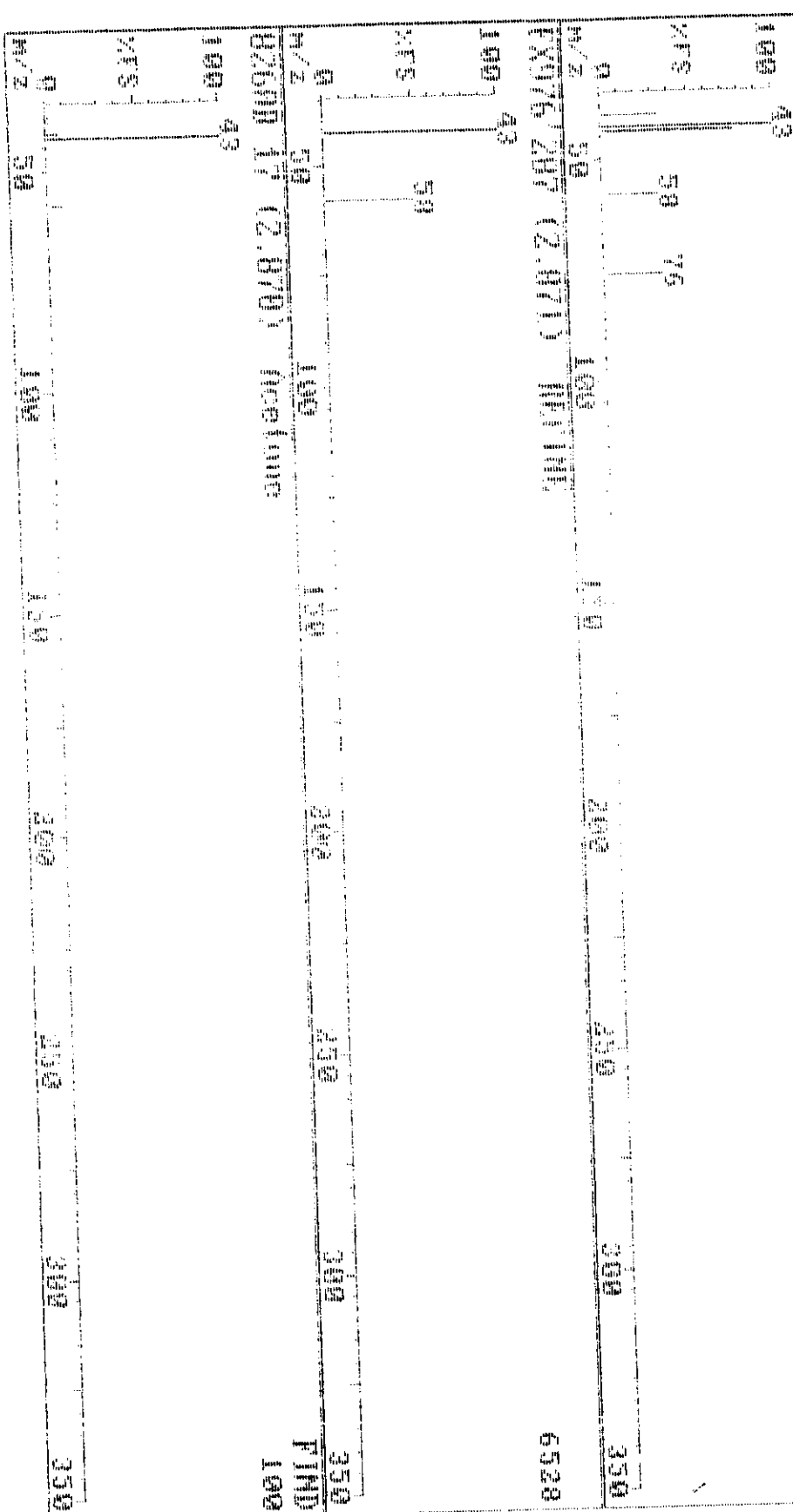
Instrument: F

999 54-5729

Instrument F

FX976 207 (2.870)

8576



21-May-80 10:02

PerkinElmer Associates, Inc.

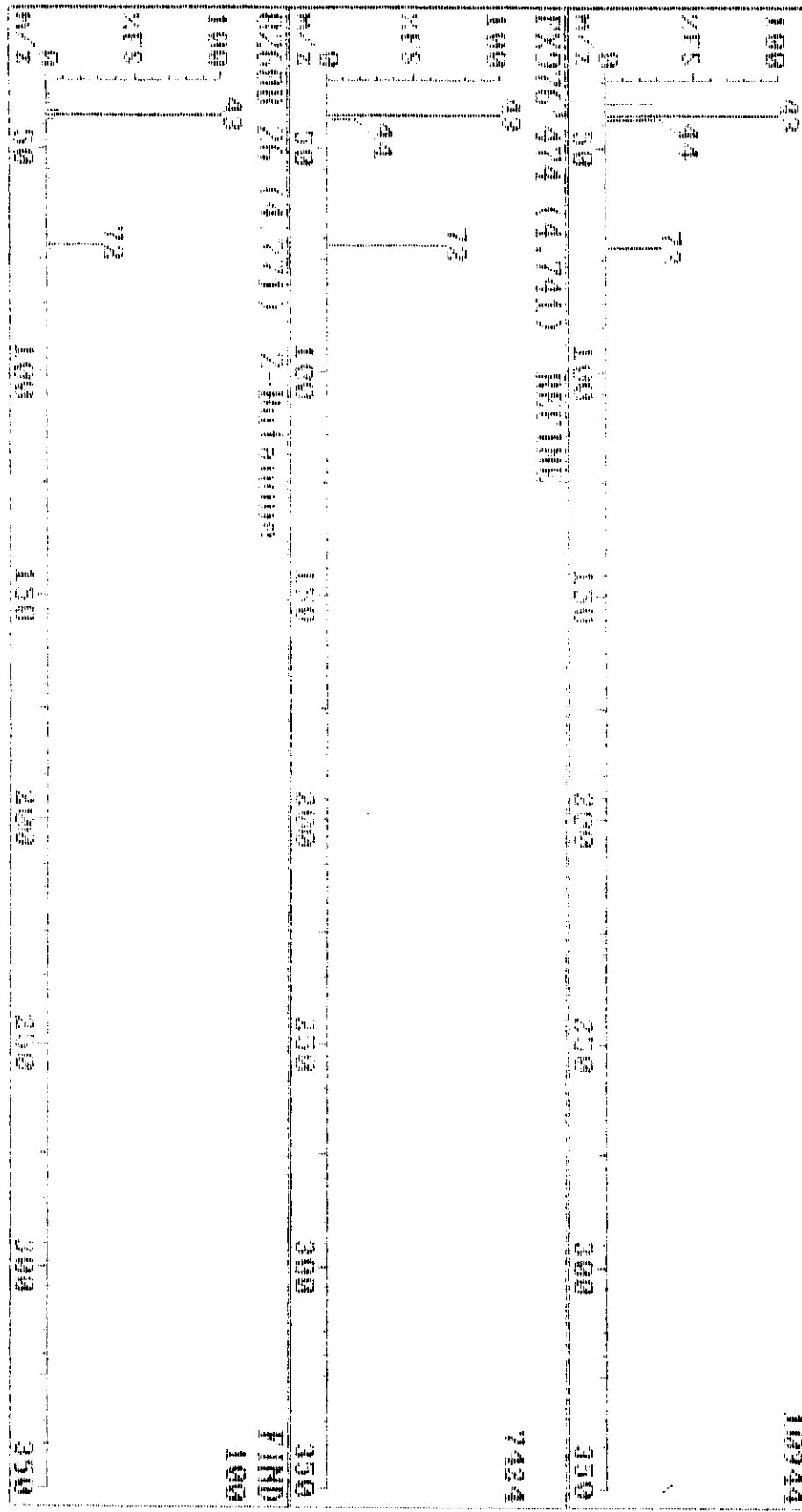
(619) 544-5729

Sample: T-4-2-Z-A-B

100 14 27 60.6 11.046323

Instrument: F

FX876 474 (4.741)



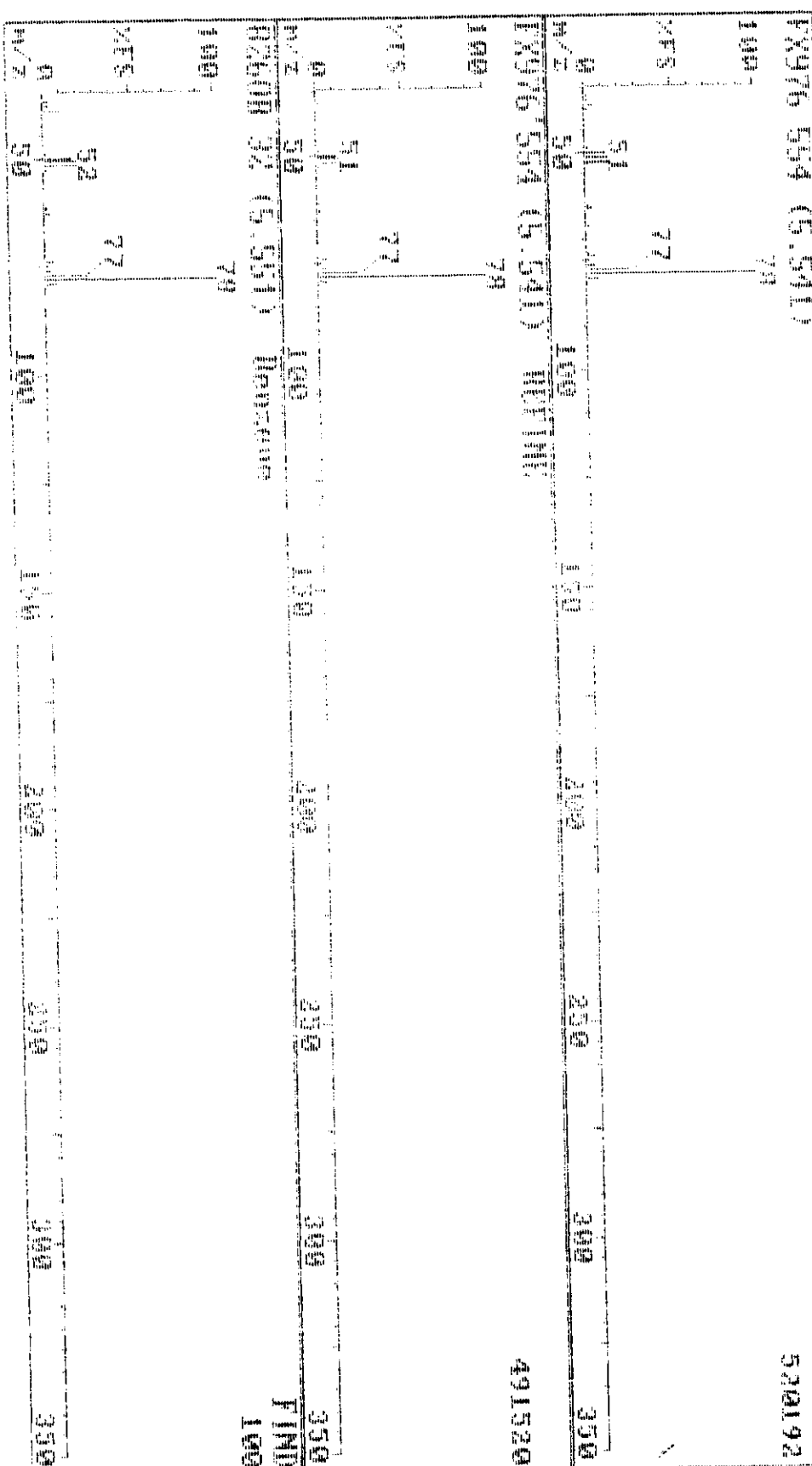
10344

7424

FIND

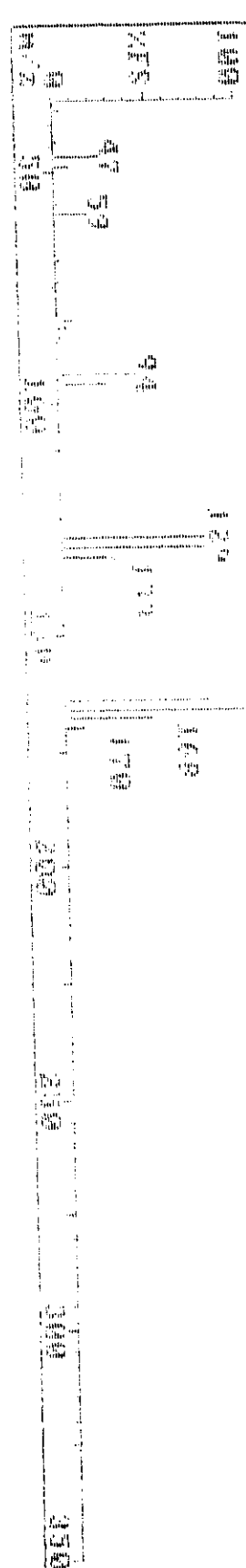
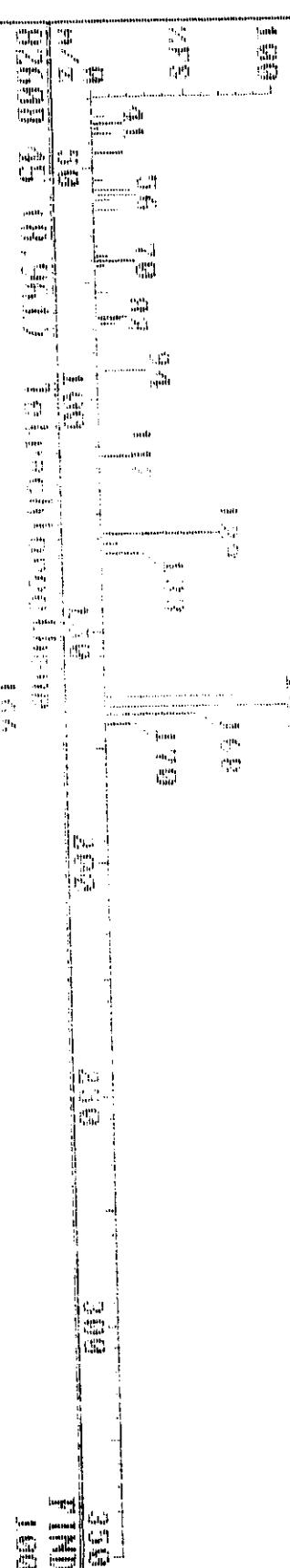
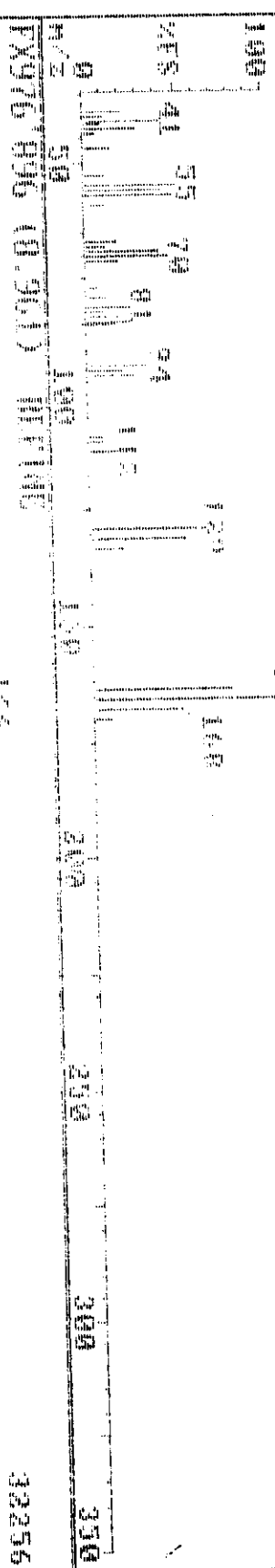
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74-449-38 10102 T. Sample Laboratory Inc. (319) 544-5729
 Sample: T-V-2-2-A.R T.V. 74-427-5400 T.V. 101023 Instrument F



2400-30 0000
 Sample: T-2-2-00 T-0 000000 T-40320
 Instrument F

1000 0000 0000 35584



21-004-10 1000

Sample: T-6-2-2-A1

100 1000000 1100000

000 544-577

Instrument F

1006 1072 (10.72)

224256

4 1 37
100 50 100 100
1006 1072 (10.72)

195584

100 50 100 100
1006 52 (10.72)

100

100 50 100 100
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350

24 Aug 90 00:02

24 Aug 90 00:02

0000 044 5729

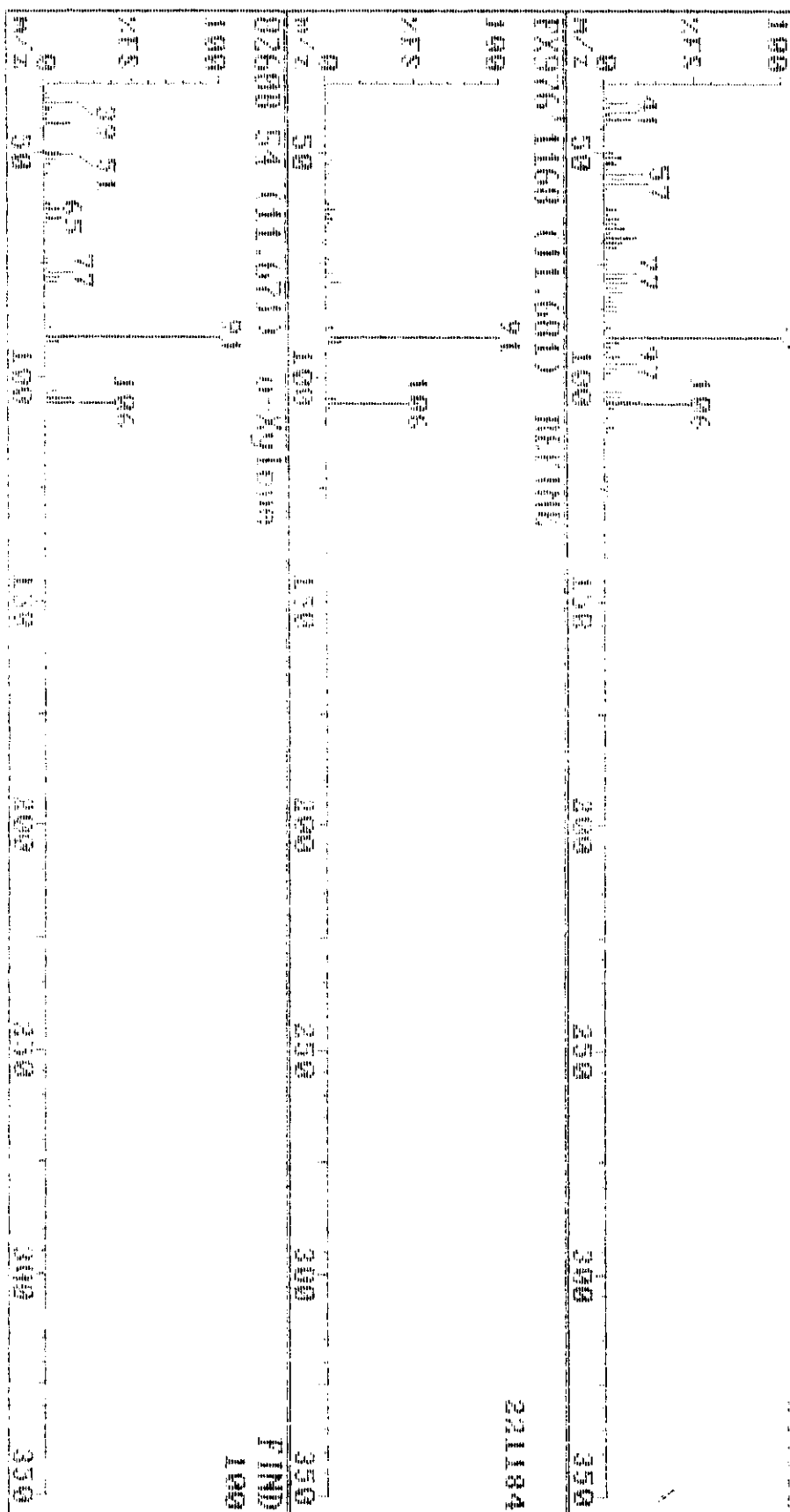
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T-027000 T-027000

Instrument F

W076 (160 (1.00))

253952



24-Aug-98 10:02

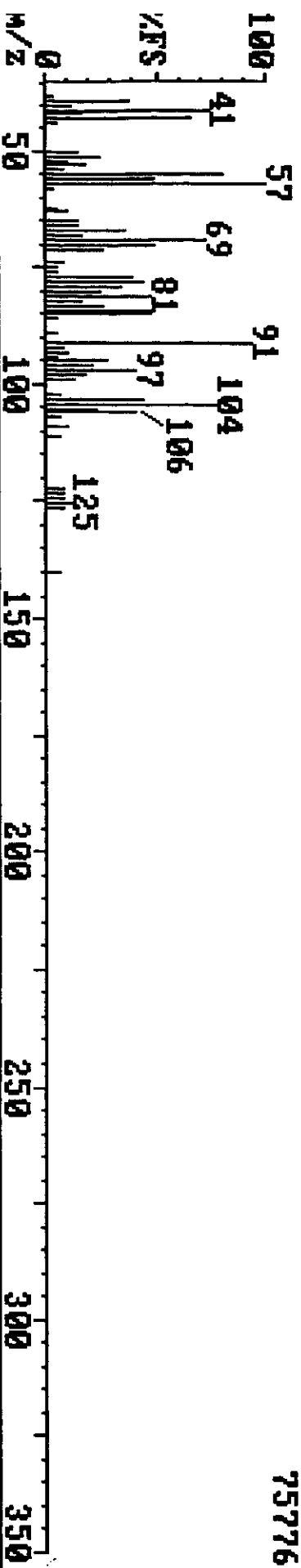
Triangle Laboratories, Inc.

(919) 544-5729

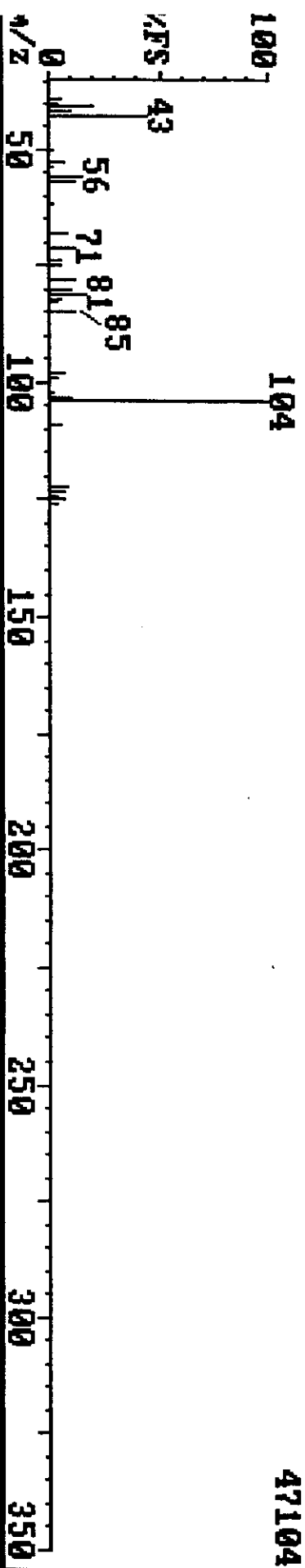
Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL#46323

Instrument F

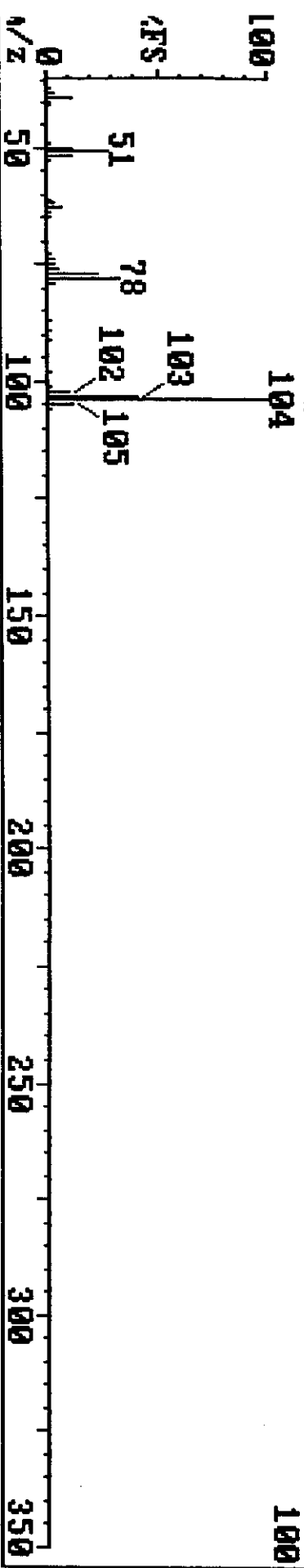
FX976 1173 (11.731)



FX976 1173 (11.731) REFINE



3260 44 (12.371) Styrene



FIND 100

24-Aug-98 10:02

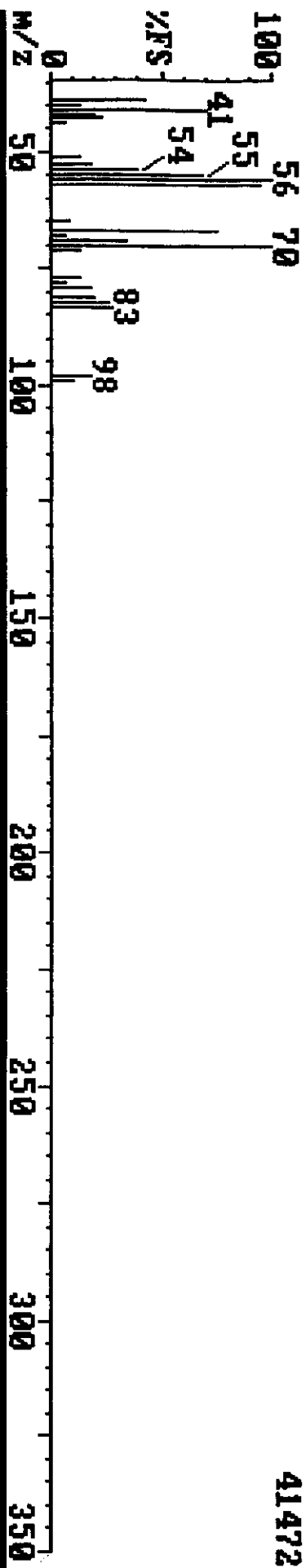
Triangle Laboratories, Inc.

(919) 544-5729

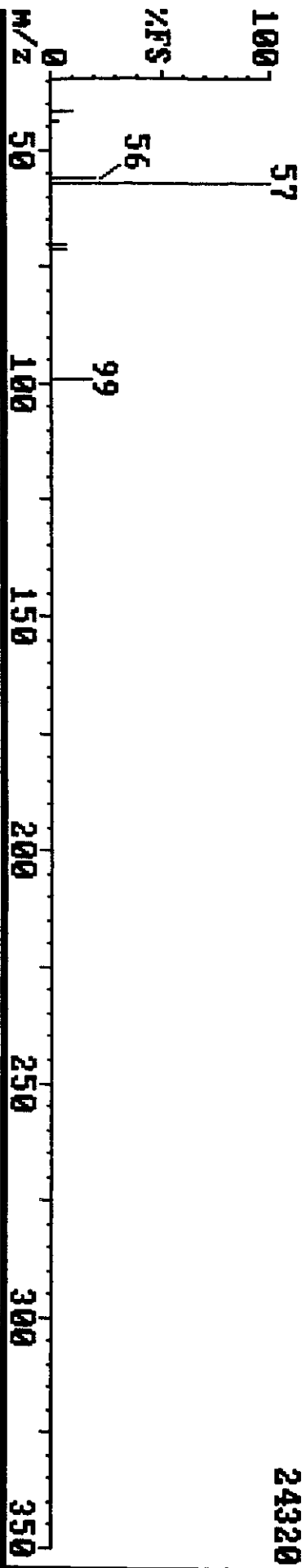
Sample: T-U-2-2-A,B T/TC 214-27-6A,B TL1#46323

Instrument F

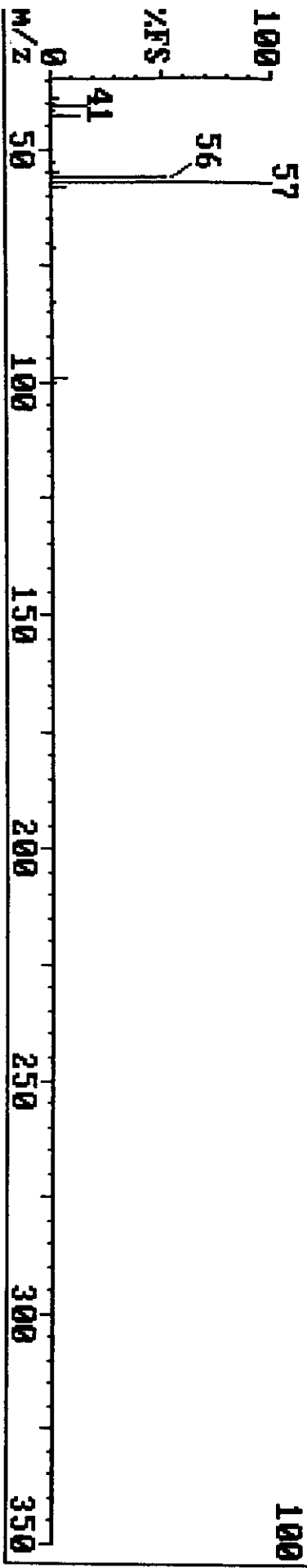
FX976 570 (5.701)



FX976 570 (5.701) REFINE



MASTER 32 (6.110) Isooctane



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
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

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287

84 -

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
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 ₅		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 ₄		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

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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 ₈	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

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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: 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	0.039	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

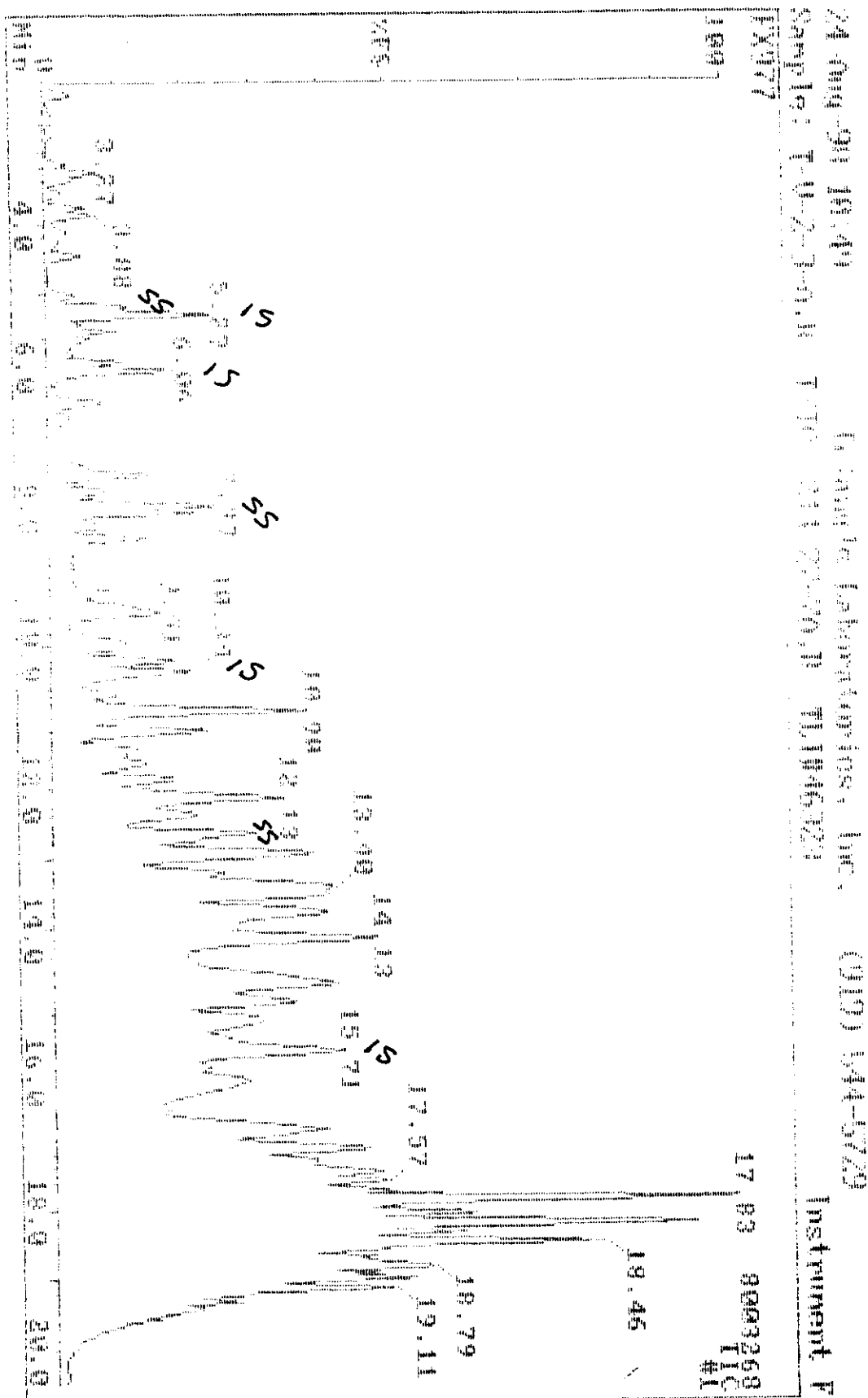
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Printed: 17:21 08/25/1998



NO	HAL	FOR	REV	DATE	ORIG. FILE	2F	QNT	NAME
1	100	99	99	99	3240111111	0.000	1.08	1,1,1-Trichloroethane
2	100	99	99	99	3250511211	0.000	1.08	1,1,1-Trichloroethane
3	100	99	99	99	3250511311	0.000	1.08	1,1,1-Trichloroethane
4	100	99	99	99	3250511411	0.000	1.08	1,1,1-Trichloroethane
5	100	99	99	99	3250511511	0.000	1.08	1,1,1-Trichloroethane
6	100	99	99	99	3250511611	0.000	1.08	1,1,1-Trichloroethane
7	100	99	99	99	3250511711	0.000	1.08	1,1,1-Trichloroethane
8	100	99	99	99	3250511811	0.000	1.08	1,1,1-Trichloroethane
9	100	99	99	99	3250511911	0.000	1.08	1,1,1-Trichloroethane
10	100	99	99	99	3250512011	0.000	1.08	1,1,1-Trichloroethane
11	100	99	99	99	3250512111	0.000	1.08	1,1,1-Trichloroethane
12	100	99	99	99	3250512211	0.000	1.08	1,1,1-Trichloroethane
13	100	99	99	99	3250512311	0.000	1.08	1,1,1-Trichloroethane
14	100	99	99	99	3250512411	0.000	1.08	1,1,1-Trichloroethane
15	100	99	99	99	3250512511	0.000	1.08	1,1,1-Trichloroethane
16	100	99	99	99	3250512611	0.000	1.08	1,1,1-Trichloroethane
17	100	99	99	99	3250512711	0.000	1.08	1,1,1-Trichloroethane
18	100	99	99	99	3250512811	0.000	1.08	1,1,1-Trichloroethane
19	100	99	99	99	3250512911	0.000	1.08	1,1,1-Trichloroethane
20	100	99	99	99	3250513011	0.000	1.08	1,1,1-Trichloroethane
21	100	99	99	99	3250513111	0.000	1.08	1,1,1-Trichloroethane
22	100	99	99	99	3250513211	0.000	1.08	1,1,1-Trichloroethane
23	100	99	99	99	3250513311	0.000	1.08	1,1,1-Trichloroethane
24	100	99	99	99	3250513411	0.000	1.08	1,1,1-Trichloroethane
25	100	99	99	99	3250513511	0.000	1.08	1,1,1-Trichloroethane
26	100	99	99	99	3250513611	0.000	1.08	1,1,1-Trichloroethane
27	100	99	99	99	3250513711	0.000	1.08	1,1,1-Trichloroethane
28	100	99	99	99	3250513811	0.000	1.08	1,1,1-Trichloroethane
29	100	99	99	99	3250513911	0.000	1.08	1,1,1-Trichloroethane
30	100	99	99	99	3250514011	0.000	1.08	1,1,1-Trichloroethane
31	100	99	99	99	3250514111	0.000	1.08	1,1,1-Trichloroethane
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35	100	99	99	99	3250514511	0.000	1.08	1,1,1-Trichloroethane
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38	100	99	99	99	3250514811	0.000	1.08	1,1,1-Trichloroethane
39	100	99	99	99	3250514911	0.000	1.08	1,1,1-Trichloroethane
40	100	99	99	99	3250515011	0.000	1.08	1,1,1-Trichloroethane
41	100	99	99	99	3250515111	0.000	1.08	1,1,1-Trichloroethane
42	100	99	99	99	3250515211	0.000	1.08	1,1,1-Trichloroethane
43	100	99	99	99	3250515311	0.000	1.08	1,1,1-Trichloroethane
44	100	99	99	99	3250515411	0.000	1.08	1,1,1-Trichloroethane
45	100	99	99	99	3250515511	0.000	1.08	1,1,1-Trichloroethane
46	100	99	99	99	3250515611	0.000	1.08	1,1,1-Trichloroethane
47	100	99	99	99	3250515711	0.000	1.08	1,1,1-Trichloroethane
48	100	99	99	99	3250515811	0.000	1.08	1,1,1-Trichloroethane
49	100	99	99	99	3250515911	0.000	1.08	1,1,1-Trichloroethane
50	100	99	99	99	3250516011	0.000	1.08	1,1,1-Trichloroethane

102440 - (M) PAB

128512 - (M) PAB

336352 - (M) PAB

Keep PAB

(M) PAB

(M) PAB

(M) PAB

Data Review: PAB
Date: 8/24/98

AP	WAT	FOR	RYM	Delta	AP	WAT	FOR	RYM	Delta	RT	QM	Plume
51	0	0	0	0	0	0	0	0	0	0.000	131	1,1,1,1-Tetrachloroethane
52	00	65	92	0	474004	00	0	0	0	0.000	105	1,1-Dichloroethane
53	00	74	25	-1	2014510	00	0	0	0	0.000	006	m-x-Dichlorobenzene
54	00	64	90	0	240000	00	0	0	0	0.000	106	o-Xylene
55	0	0	0	0	474544	00	0	0	0	0.000	104	Styrene
56	0	0	0	0	0	0	0	0	0	0.000	105	o-Dichlorobenzene
57	0	0	0	0	0	0	0	0	0	0.000	105	o-Dichlorobenzene
58	0	0	0	0	0	0	0	0	0	0.000	105	o-Dichlorobenzene
59	0	0	0	0	0	0	0	0	0	0.000	106	m-Dichlorobenzene
60	0	0	0	0	0	0	0	0	0	0.000	105	1,2,4-Trichlorobenzene
61	0	0	0	0	0	0	0	0	0	0.000	100	1,2-Dichlorobenzene
62	00	10	71	-12	200000	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
63	0	0	0	0	0	0	0	0	0	0.000	105	1,2,4-Trichlorobenzene
64	0	0	0	0	0	0	0	0	0	0.000	105	1,2,4-Trichlorobenzene
65	00	60	90	-00	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
66	0	0	0	0	0	0	0	0	0	0.000	105	1,2,4-Trichlorobenzene
67	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
68	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
69	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
70	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
71	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
72	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
73	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
74	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
75	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
76	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
77	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
78	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
79	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
80	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
81	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
82	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
83	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
84	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
85	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
86	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
87	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
88	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
89	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene
90	00	10	25	0	474004	00	0	0	0	0.000	105	1,2,4-Trichlorobenzene

24-Aug-98 10:49

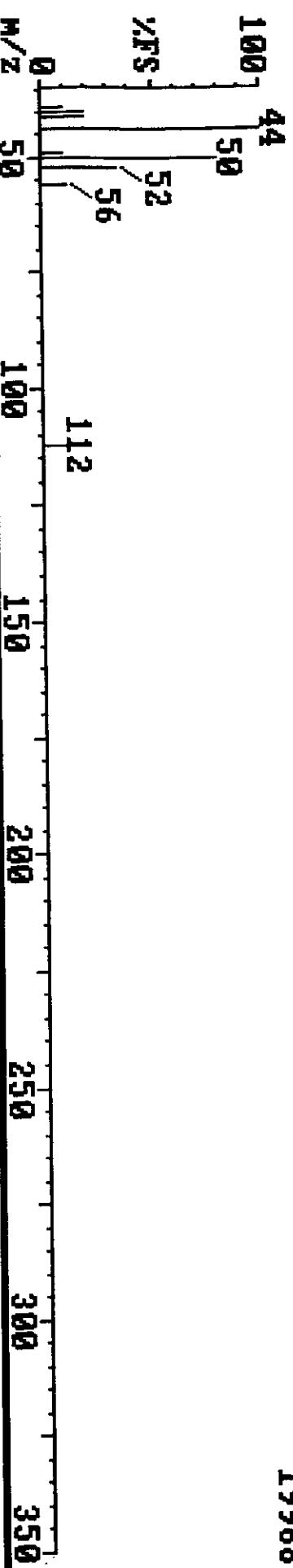
Triangle Laboratories, Inc. (919) 544-5729

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

Instrument F

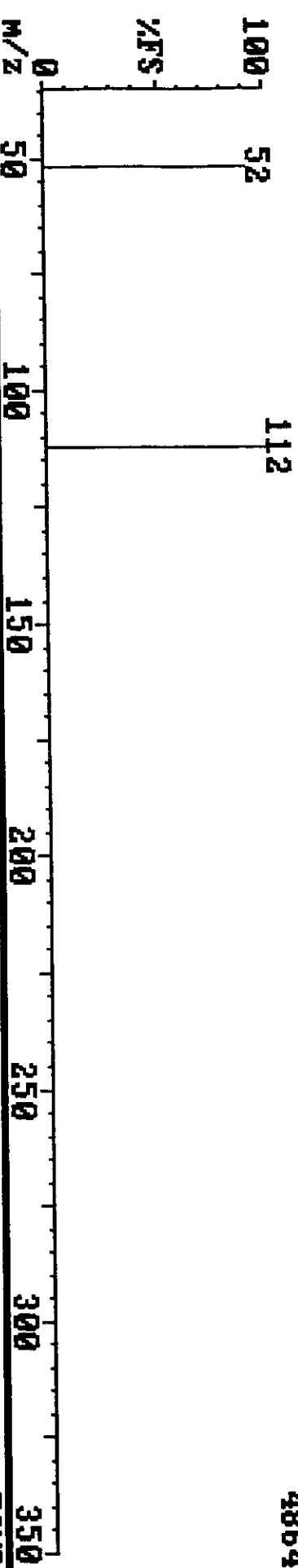
FX977 108 (1.080)

19968



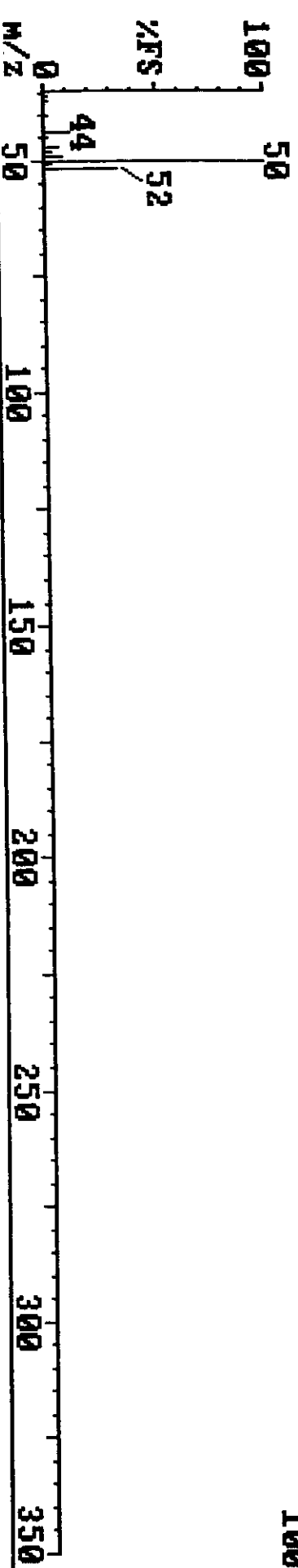
FX977 108 (1.081) REFINE

4864



8260 9 (1.230) Chloromethane

FIND 100



24-Aug-98 10:49

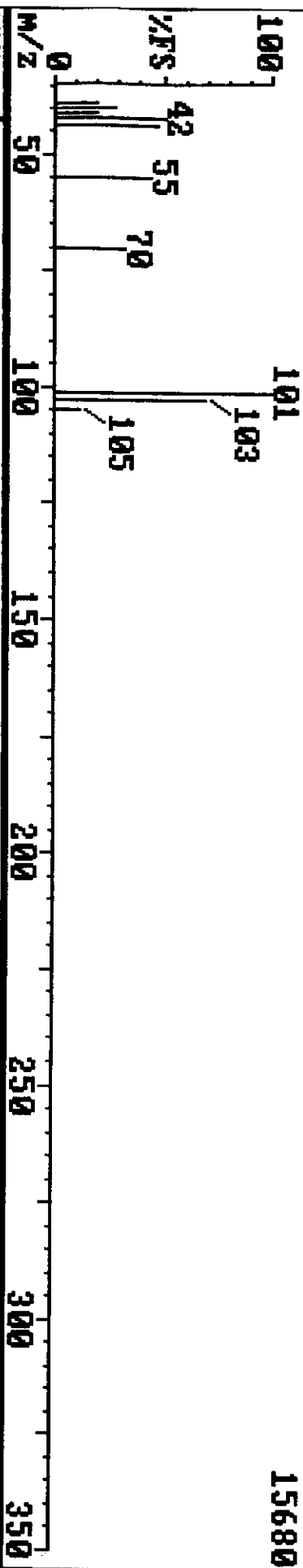
Triangle Laboratories, Inc.

(919) 544-5729

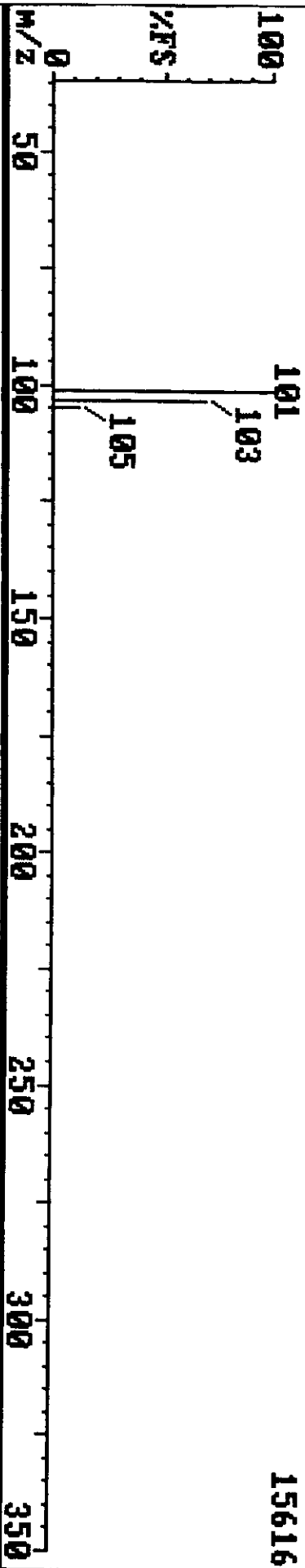
Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL#46323

Instrument F

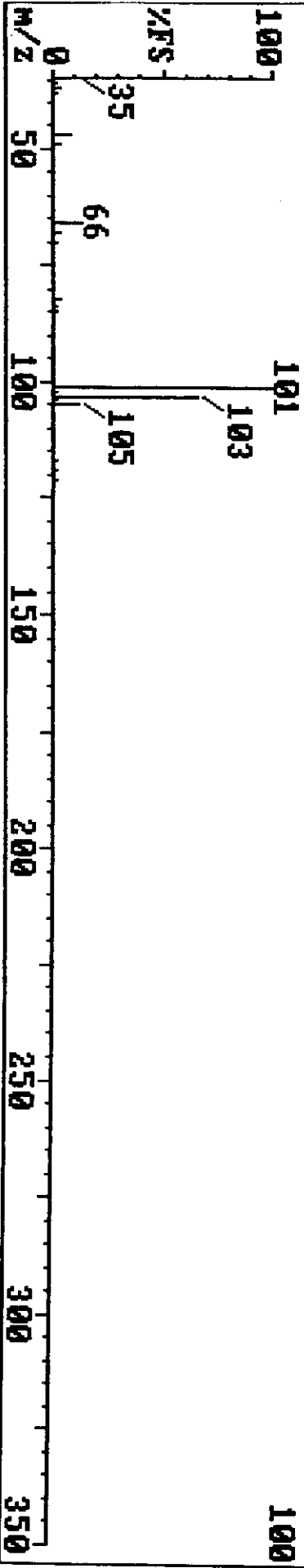
FX977 205 (2.050)

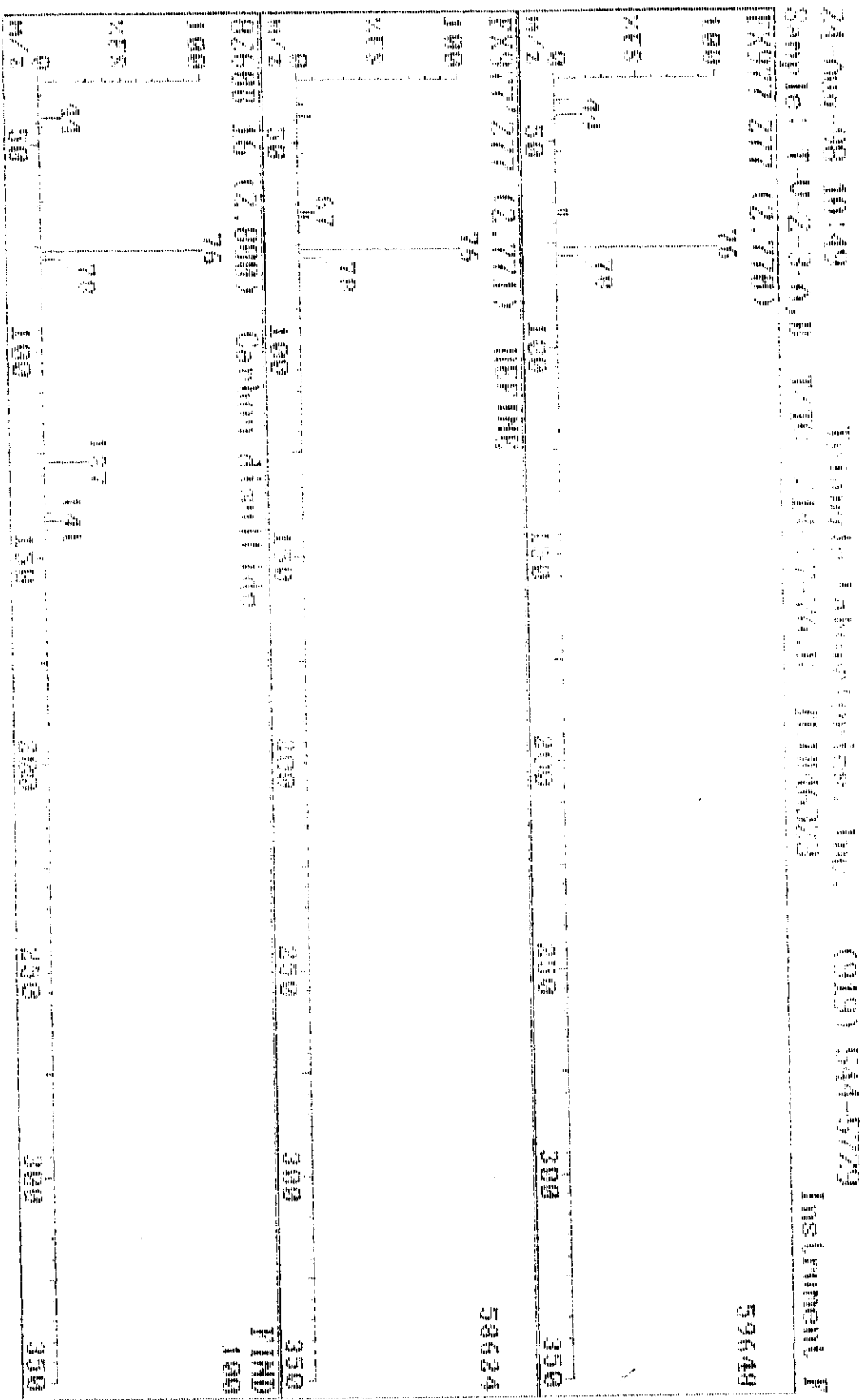


FX977' 205 (2.051) REFINE



MASTER 15 (2.330) Trichlorofluoromethane





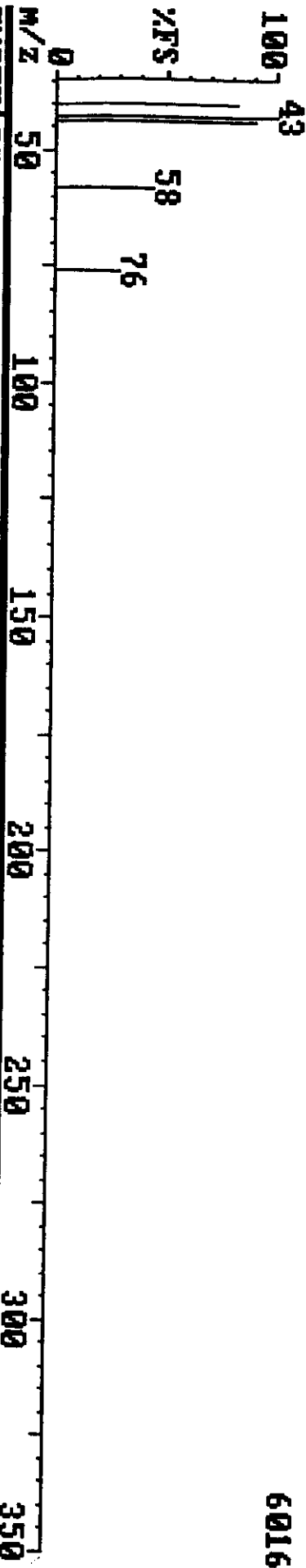
24-Aug-98 10:49

Triangle Laboratories, Inc. (919) 544-5729

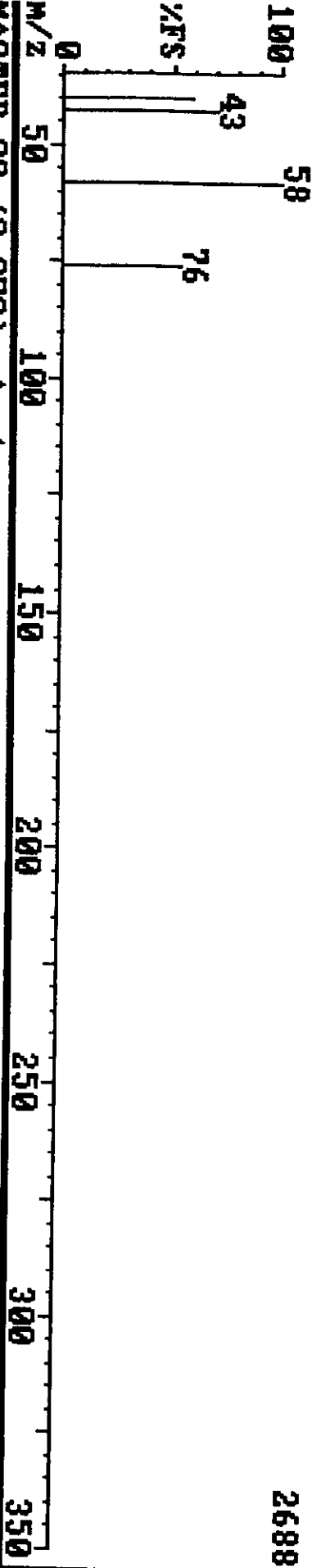
Sample: T-U-2-3-A,B T/TC 214-27-7A,B TL#46323

Instrument F

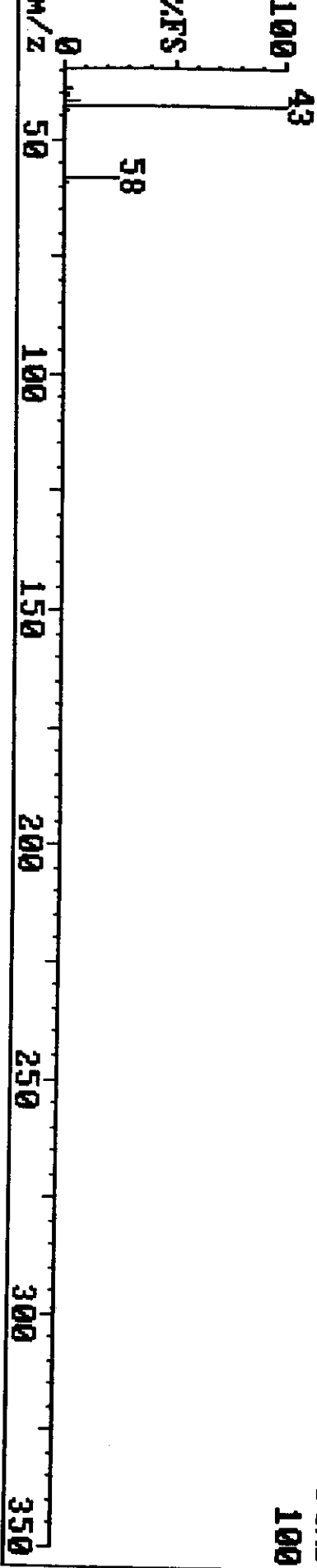
FX977 285 (2.850)



FX977' 285 (2.851) REFINE



MASTER 20 (3.370) Acetone



24-Aug-98 10:49

Triangle Laboratories, Inc.

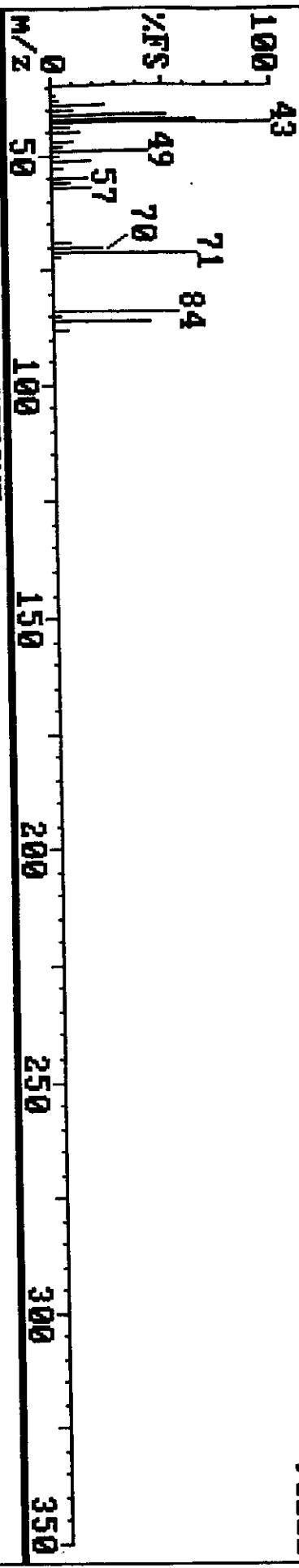
(919) 544-5729

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

Instrument F

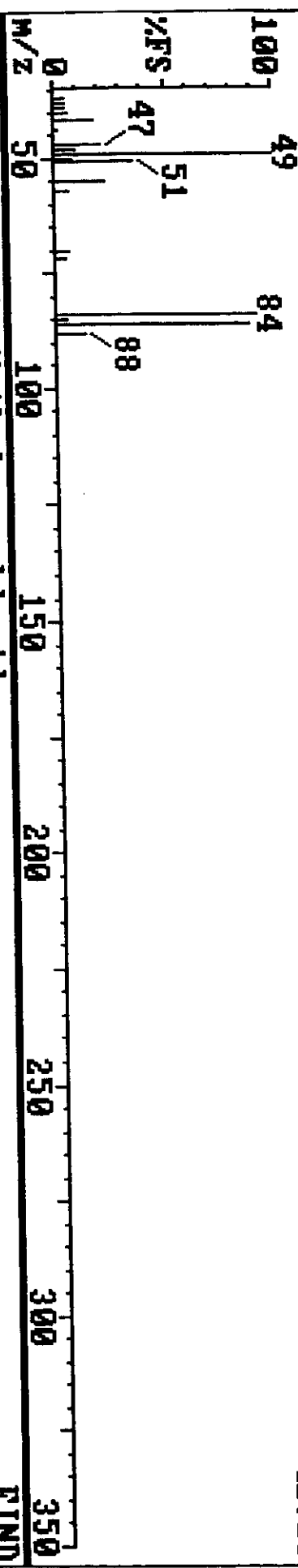
FX977 326 (3.260)

90112



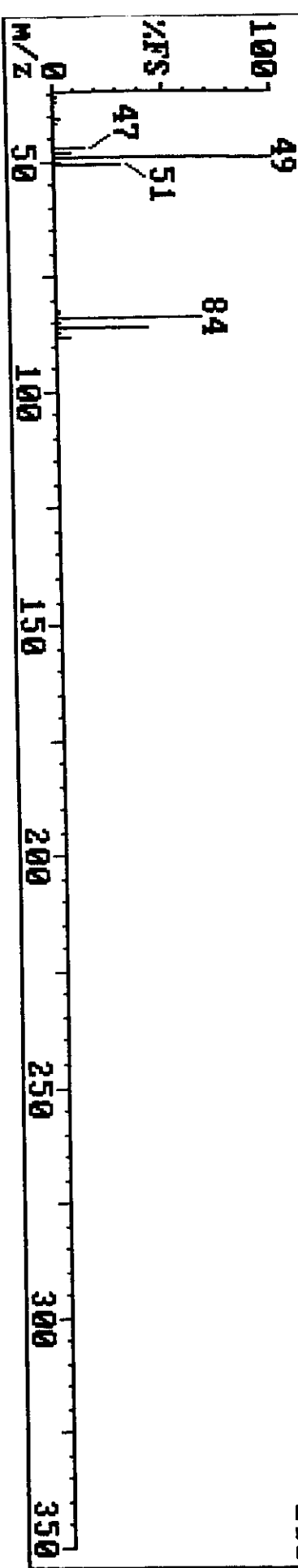
FX977 326 (3.261) REFINE

41728



8260 15 (3.550) Methylene chloride

FIND 100



24 Aug 68 08:40

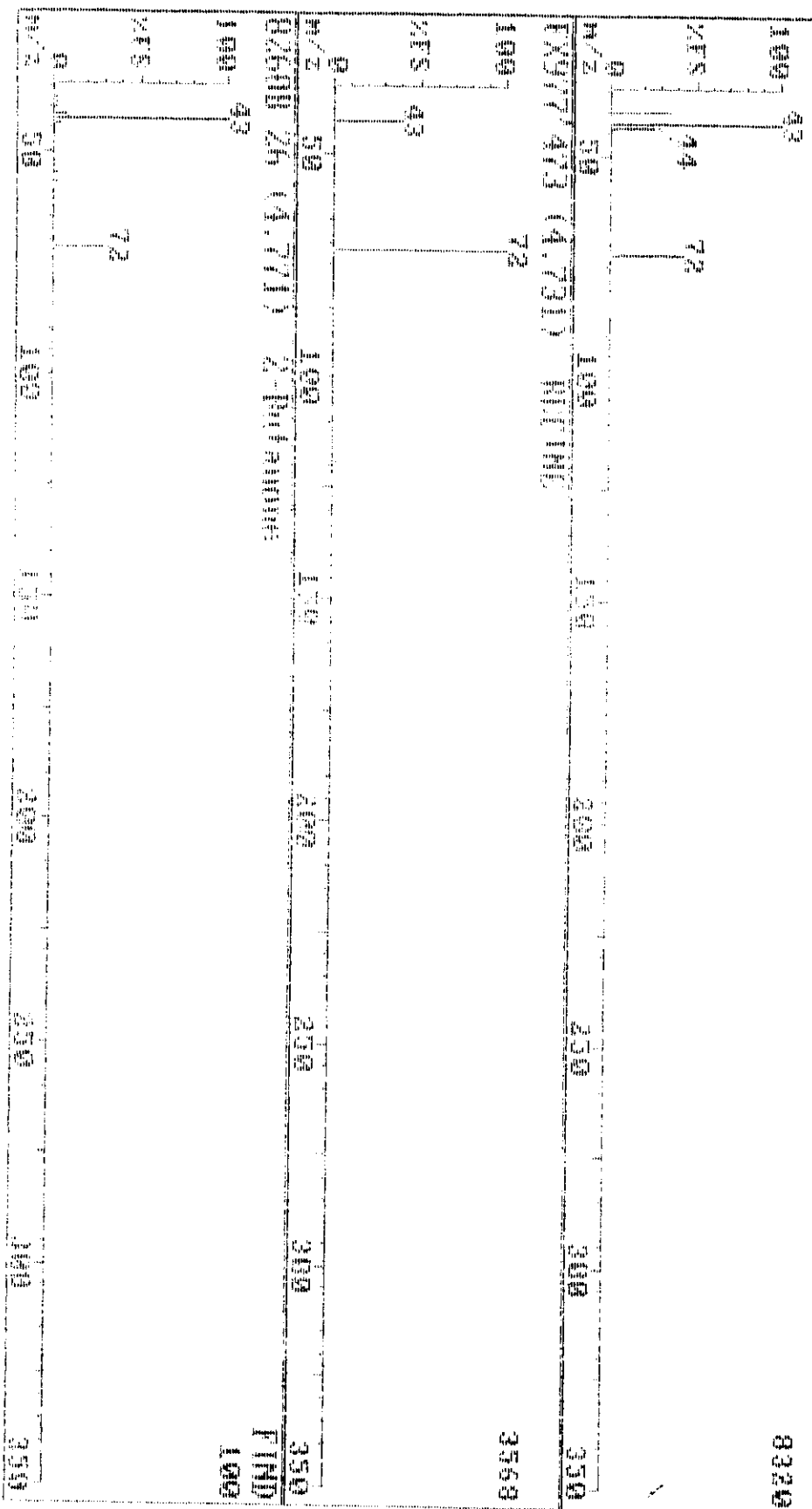
Flammable Liquids, Inc.

0010 04-0729

Sample: T-U-23-000 170 11/27/70 11/14/82

Instrument F

EX97 473 (4.73)



8320

3569

100

FIND

350

24 Aug 98 10:44

ThermoFisher Scientific, Inc. 0010 644-5729

Instrument F

Sample: T-4-2-3 0.0 1.0 2.1 3.7 7.0 11.4 13.0

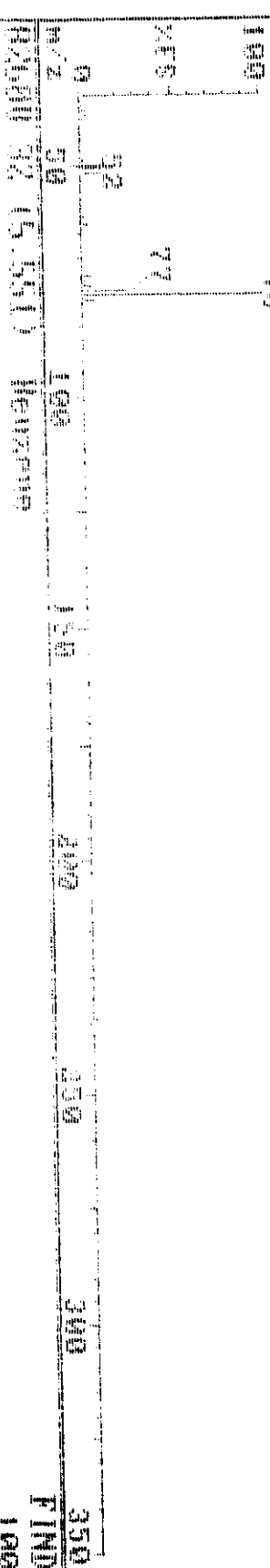
TX97 51 (5.51)

389120

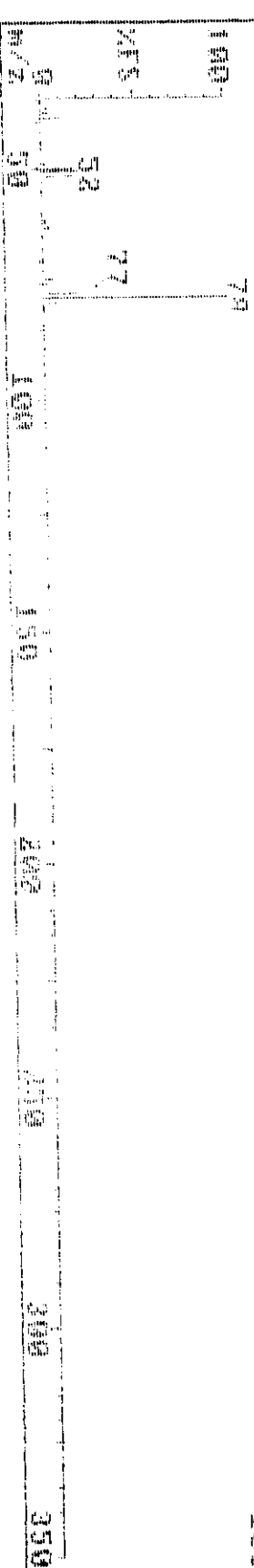


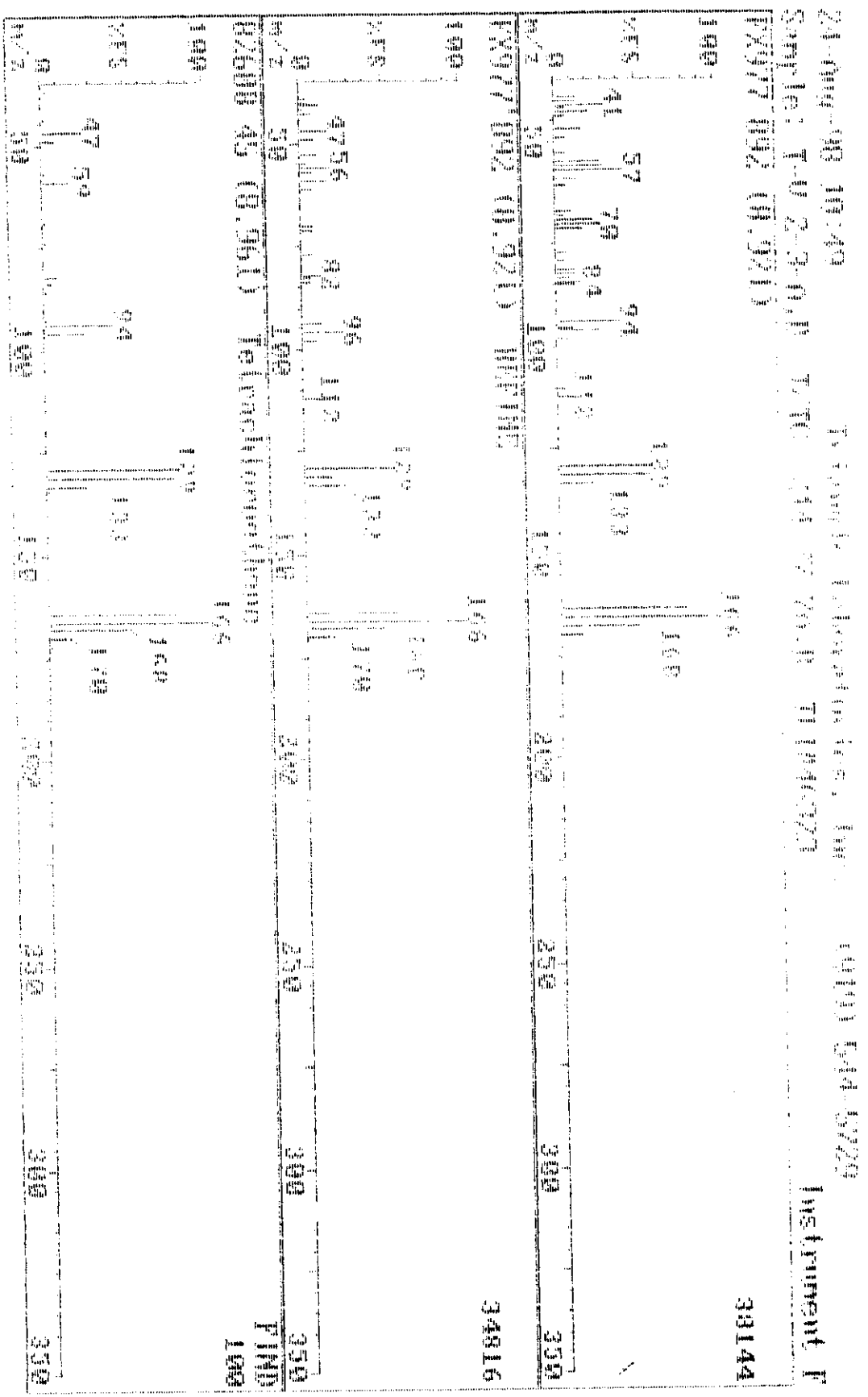
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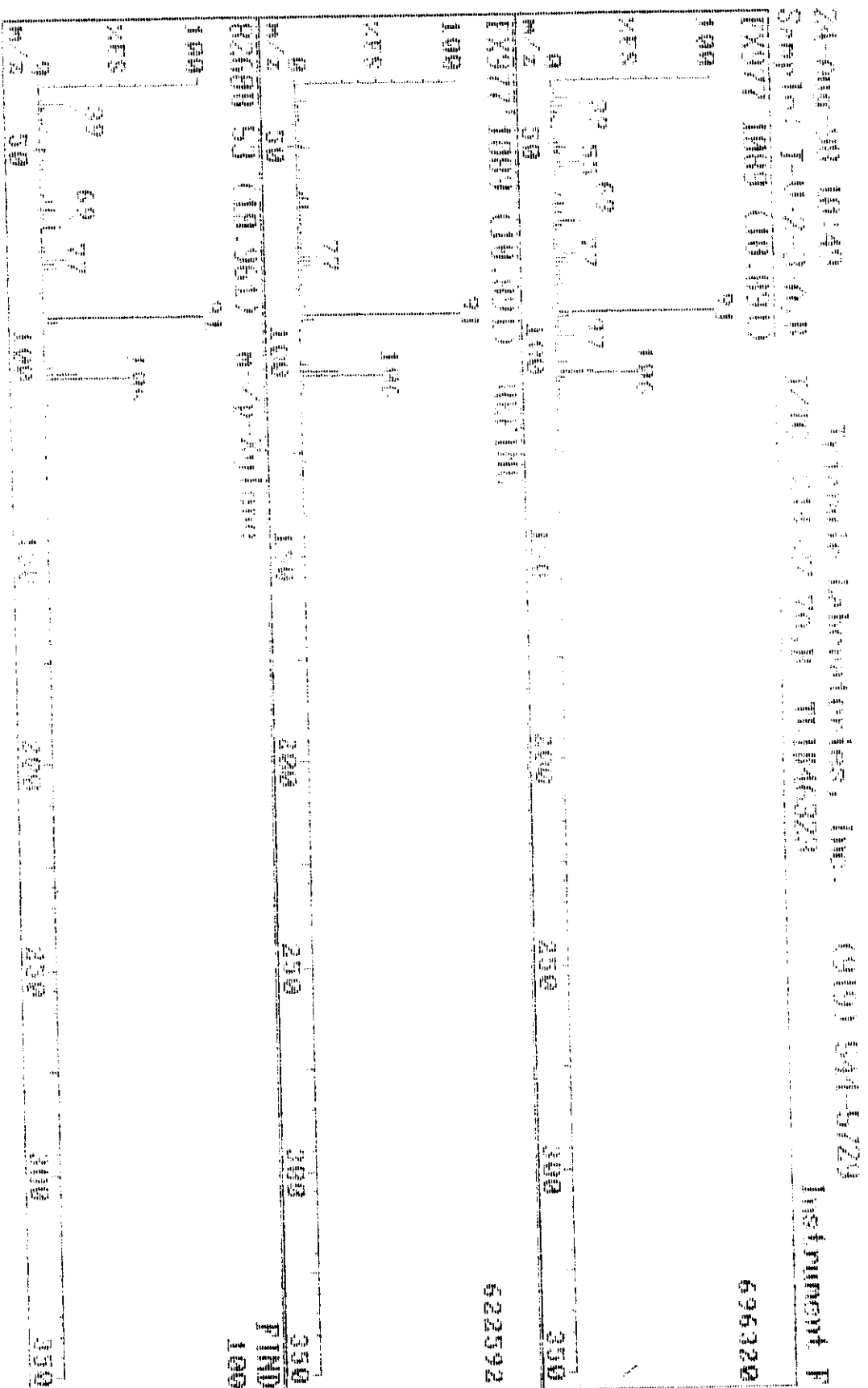
368640



FIND 100







24 May 90 00:49

Training Laboratory, Inc.

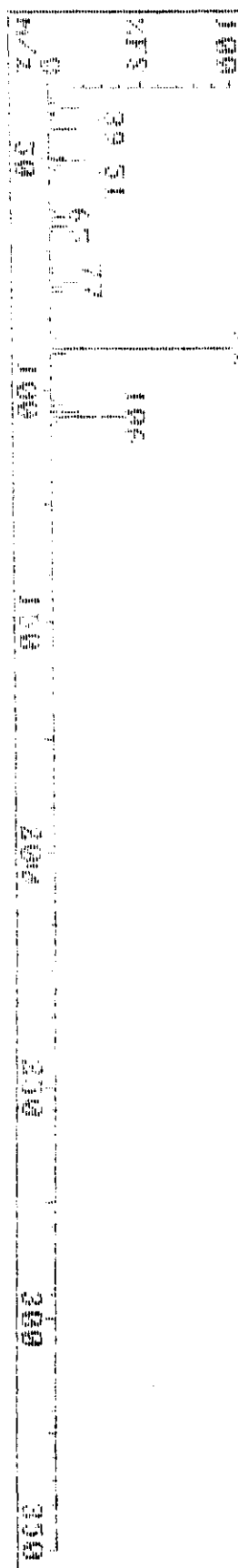
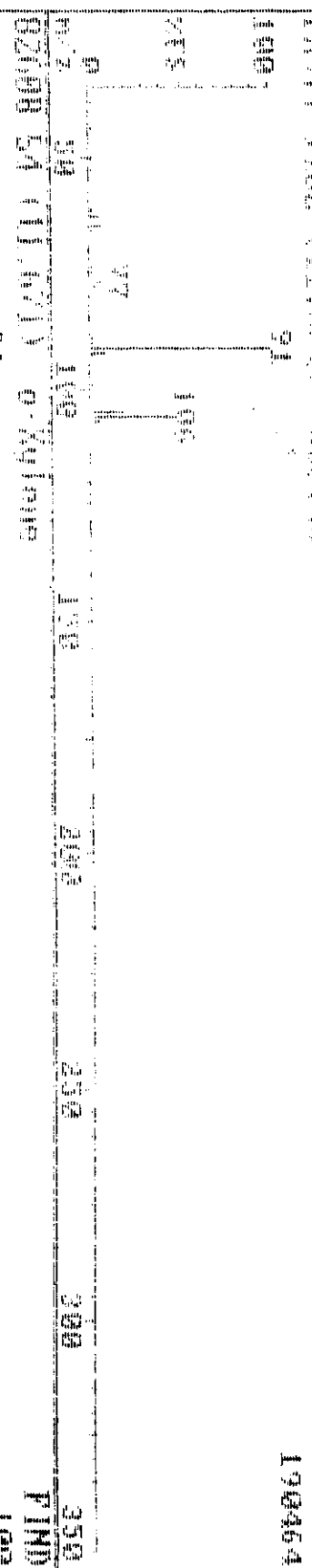
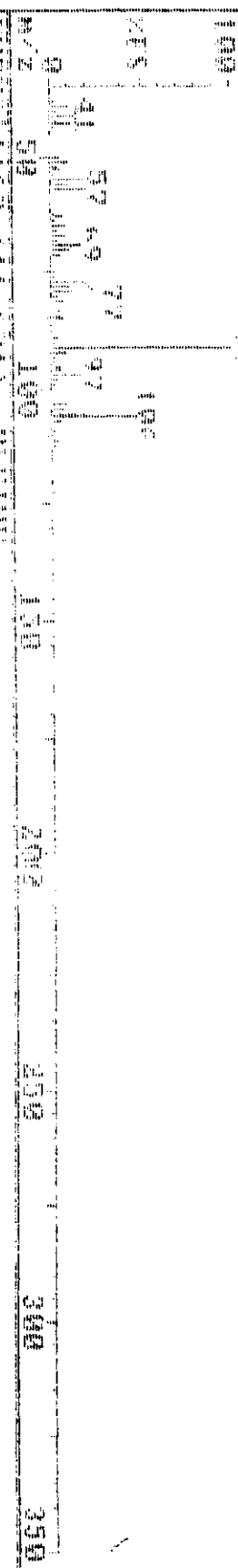
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Sample: 144-8729-005

Instrument 1

1907162 (1162)

220160



14-Aug-98 10:49

Triangle Laboratories, Inc.

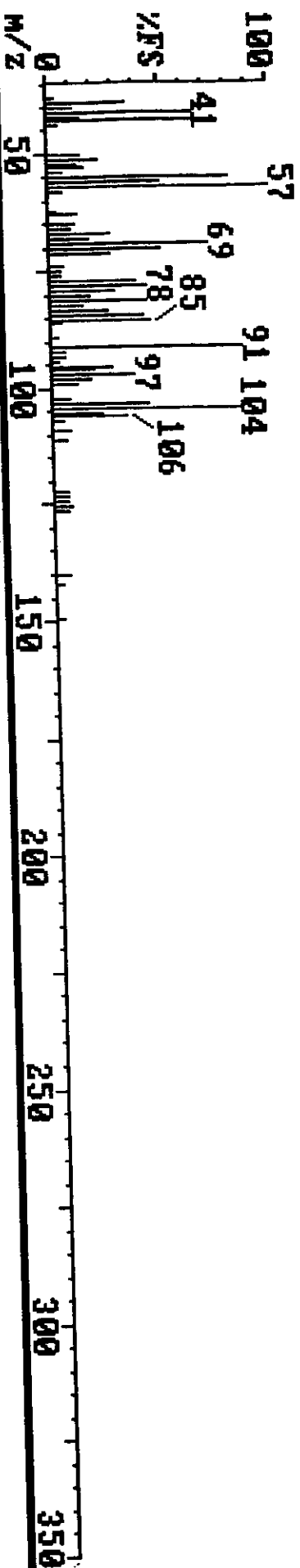
(919) 544-5729

Instrument F

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

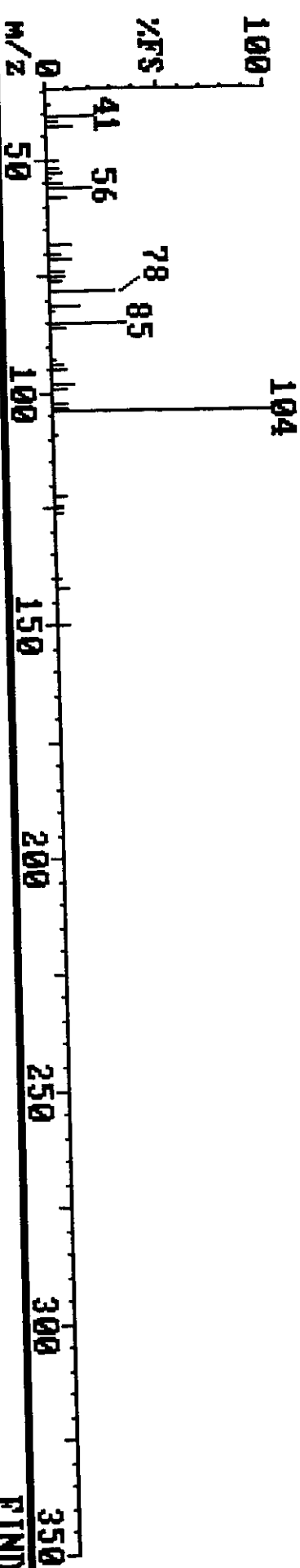
FX977 1168 (11.681)

59136



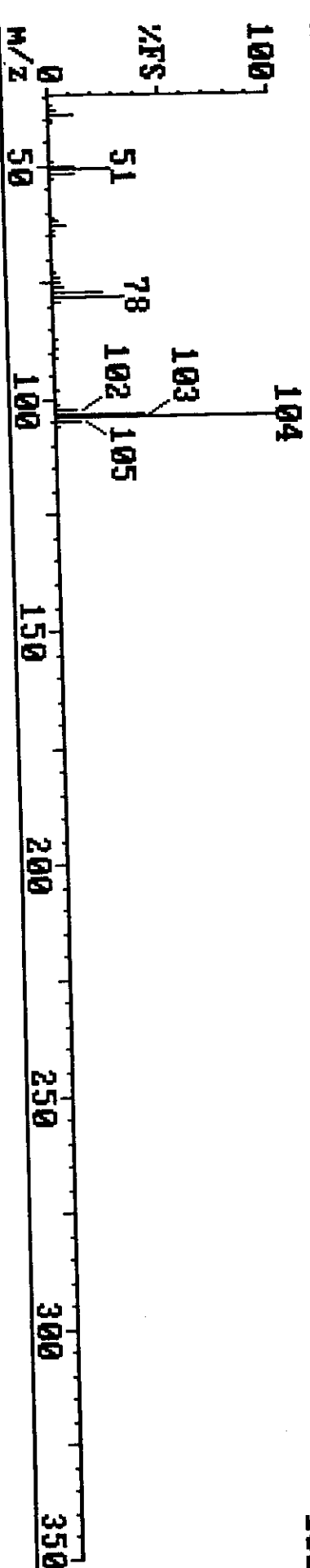
FX977 1168 (11.681) REFINE

40704



8260 44 (12.371) Styrene

FIND
100



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

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

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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

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 ₃		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 ₄		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.

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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)	RT	IS Ref	%REC
Dibromofluoromethane	0.208	5.18	1	83
Toluene-d ₈	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

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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

Date Received: 07/29/98

Response File: ICALF824

TLI ID: 214-27-8A,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	0.036	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

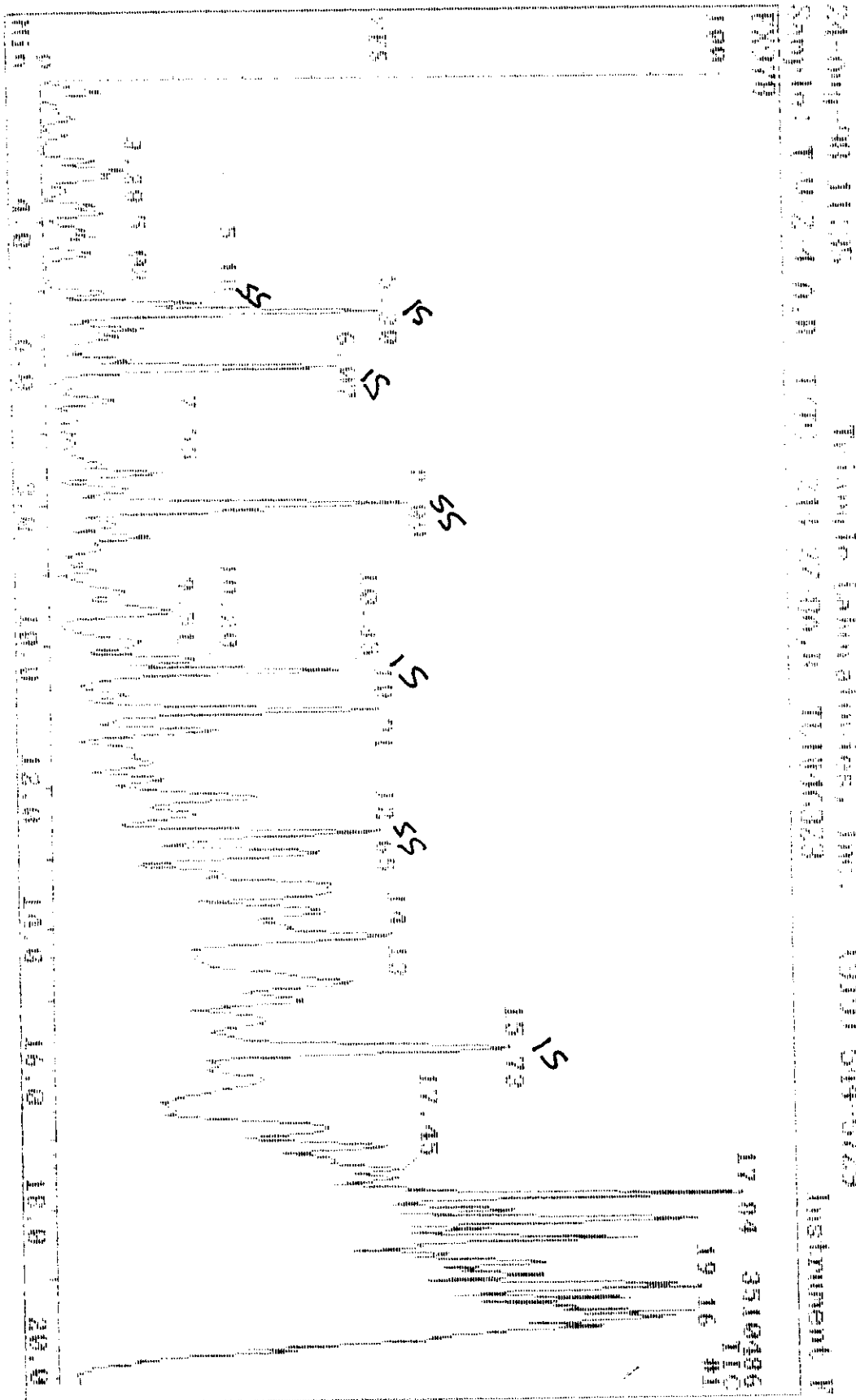
Triangle Laboratories, Inc.

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Savar v3.7

Printed: 17:21 08/25/1998



No	BAT FOR RCV Balda				ALERT FLGS	31	31	31
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52	00	50	50	-1	000000 100	00	0.00	1000 1000 1000 1000 1000 1000
53	100	00	00	-1	000000 100	00	0.00	1000 1000 1000 1000 1000 1000
54	00	00	00	0	000000 100	00	0.00	1000 1000 1000 1000 1000 1000
55	00	00	00	0	214384 100 PAB	00	0.00	1000 1000 1000 1000 1000 1000
56	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
57	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
58	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
59	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
60	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
61	00	00	00	0	00	00	0.00	1000 1000 1000 1000 1000 1000
62	00	00	00	00	000000 100	00	0.00	1000 1000 1000 1000 1000 1000
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80	00	00	00	00	000000 100	00	0.00	1000 1000 1000 1000 1000 1000

NO	NOF	POB	POV	Defici	NOF	POB	POV	Defici	QM	Nome
1	1001	71	90	1	1003	100	100	5	1001	Demetrius de Jesus
2	1002	90	90	0	1004	100	100	6	1002	Demetrius de Jesus
3	1003	71	90	1	1005	100	100	10	1003	Demetrius de Jesus
4	1004	70	100	1	1006	100	100	10	1004	Demetrius de Jesus
5	1005	70	0	0	1007	100	100	5	1005	Demetrius de Jesus
6	1006	87	100	0	1008	100	100	5	1006	Demetrius de Jesus
7	1007	70	10	0	1009	100	100	10	1007	Demetrius de Jesus
8	1008	70	10	0	1010	100	100	10	1008	Demetrius de Jesus
9	1009	70	10	0	1011	100	100	10	1009	Demetrius de Jesus
10	1010	70	10	0	1012	100	100	10	1010	Demetrius de Jesus
11	1011	70	10	0	1013	100	100	10	1011	Demetrius de Jesus
12	1012	70	10	0	1014	100	100	10	1012	Demetrius de Jesus
13	1013	70	10	0	1015	100	100	10	1013	Demetrius de Jesus
14	1014	70	10	0	1016	100	100	10	1014	Demetrius de Jesus
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24-Aug-98 11:35

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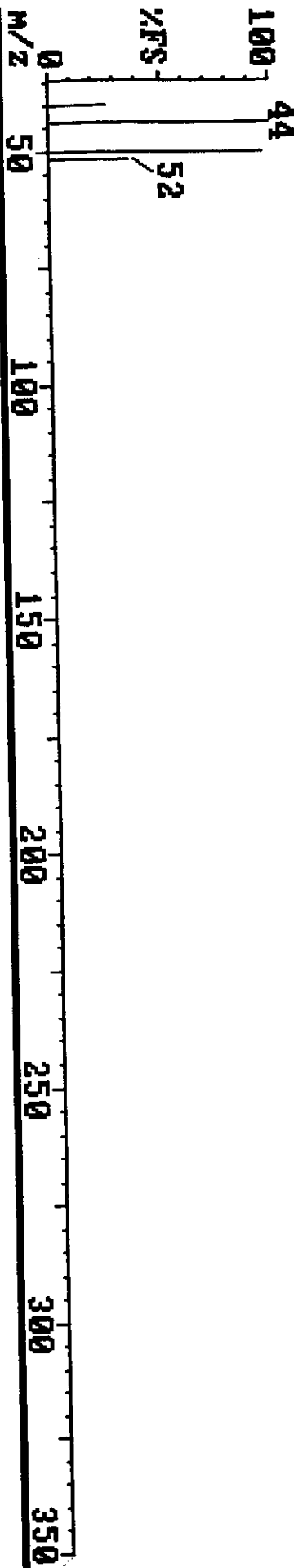
(919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL1#46323

Instrument F

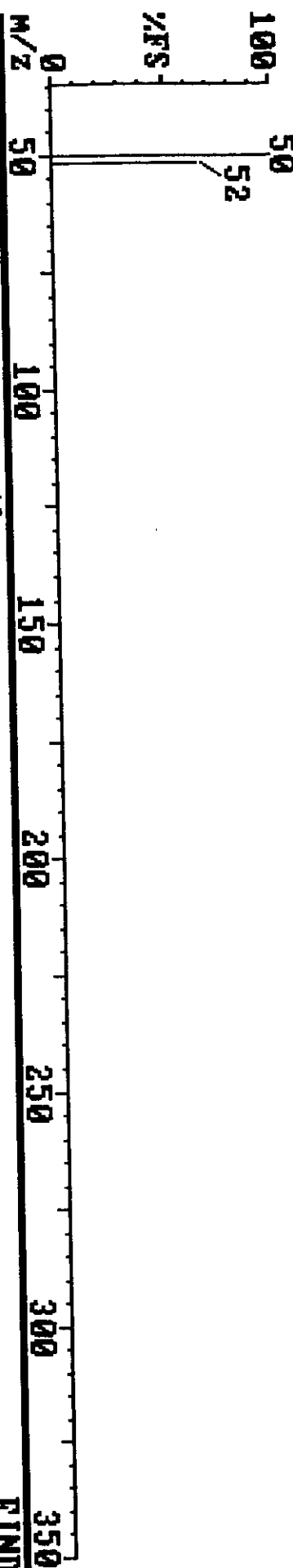
FX978 109 (1.090)

16320



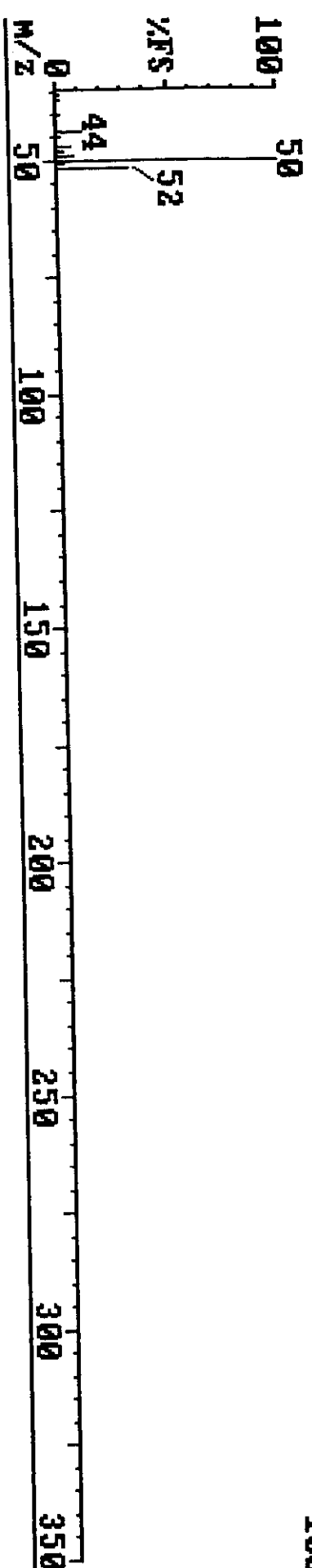
FX978 109 (1.091) REFINE

6080



8260 9 (1.230) Chloromethane

FIND 100



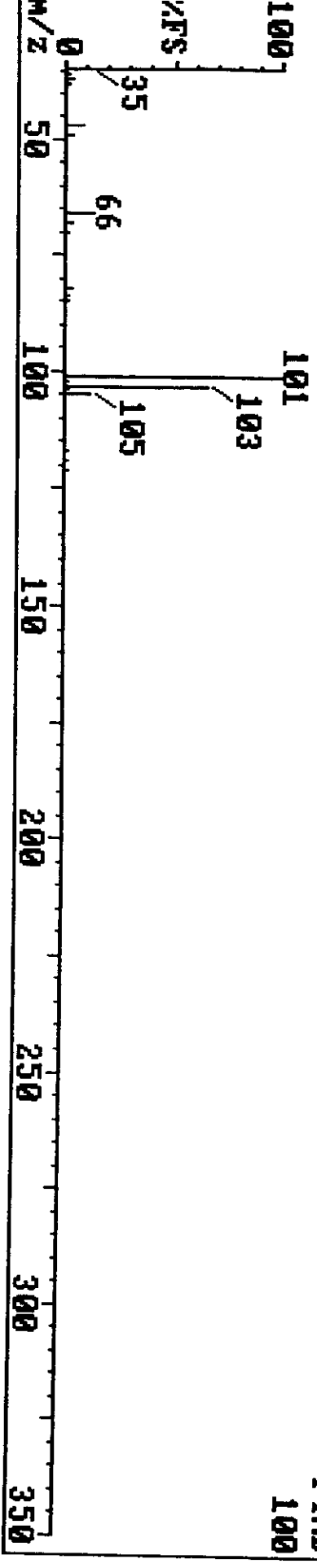
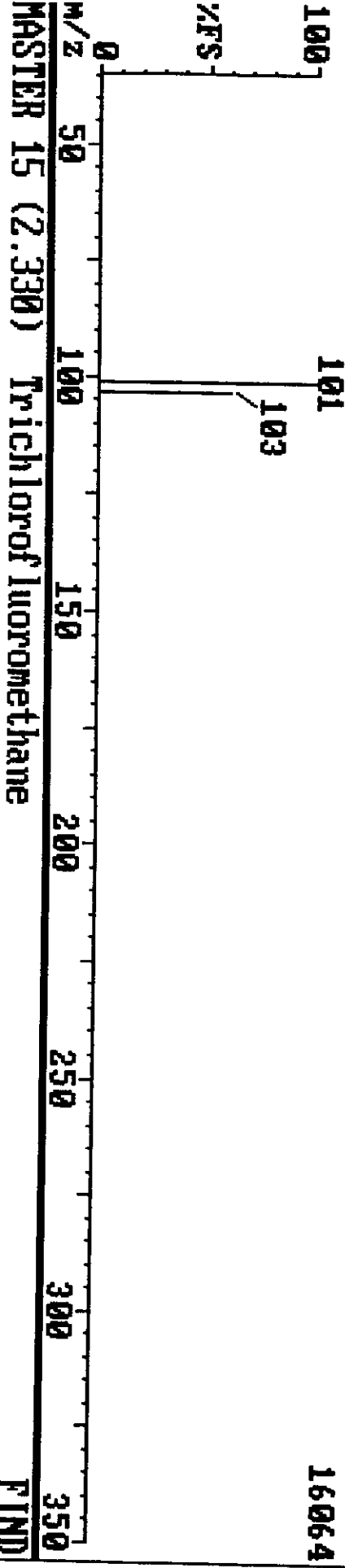
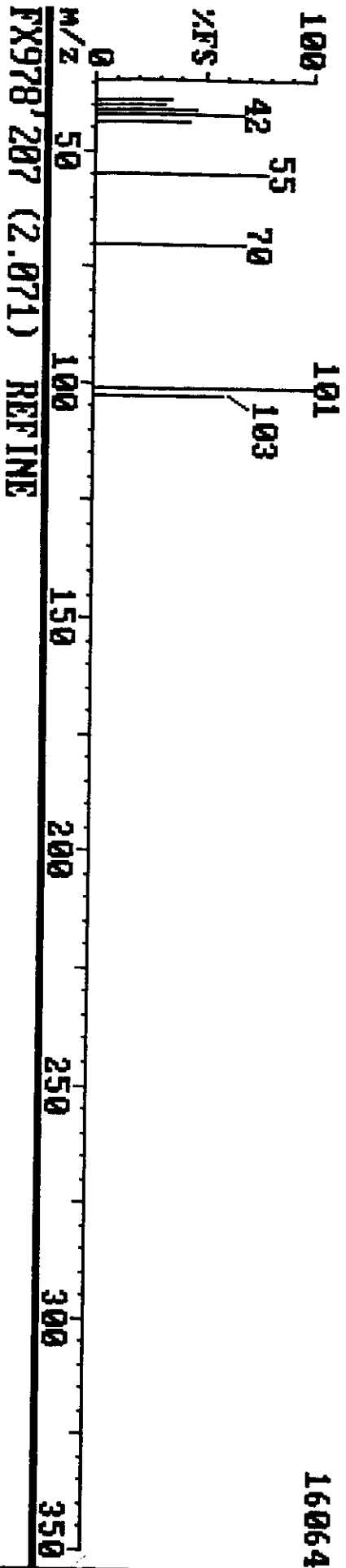
24-Aug-98 11:35

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL#46323

Instrument F

FX978 207 (2.070)



24-Aug-98 11:35

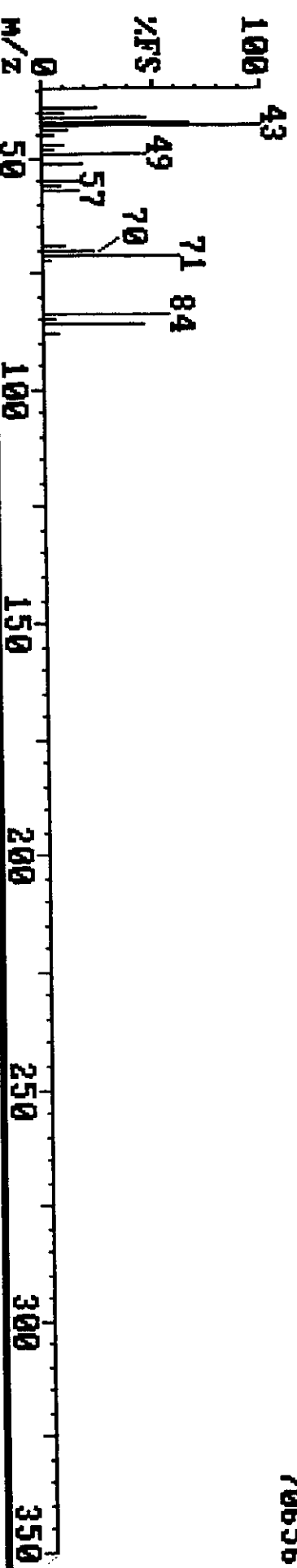
Triangle Laboratories, Inc. (919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL1#46323

Instrument F

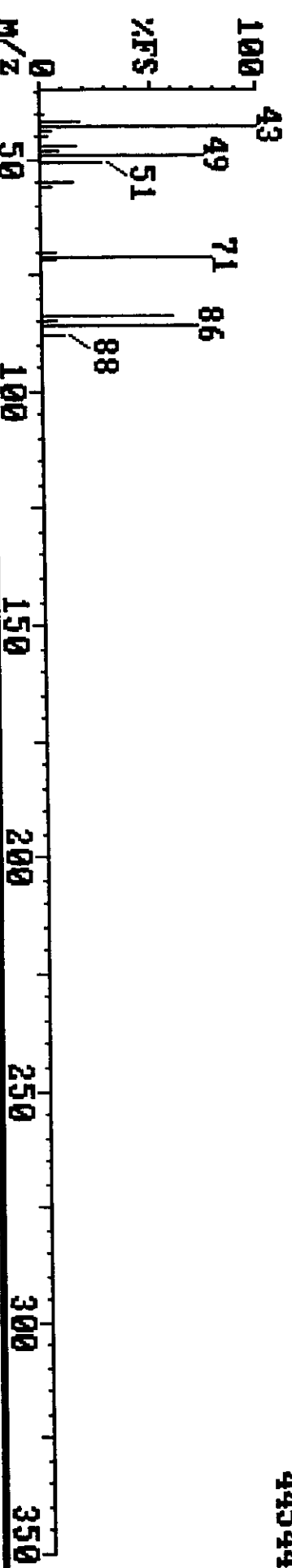
FX978 327 (3.270)

70656



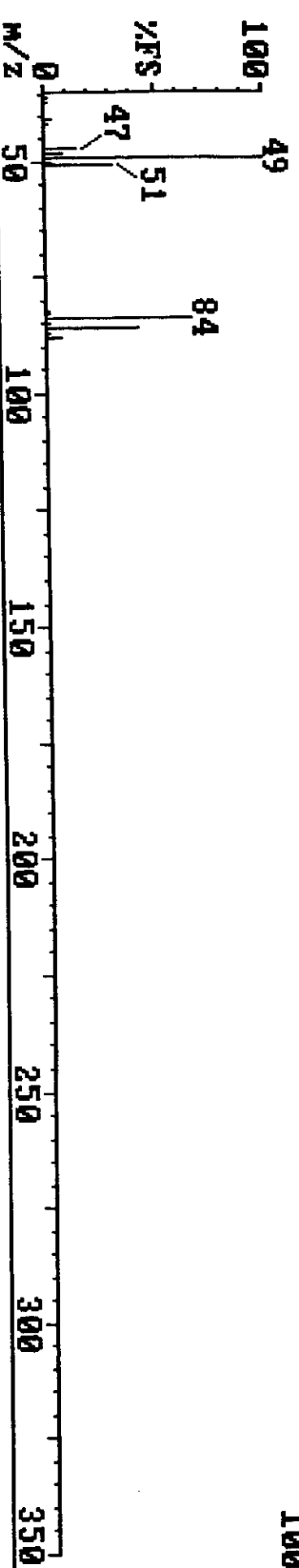
FX978 327 (3.271) REFINE

44544



8260 15 (3.550) Methylene chloride

FIND 100



24 May 48 1436

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Sample: 10-2-40-0

170 200 200 200

Instrument F

1000 473 (4.731)

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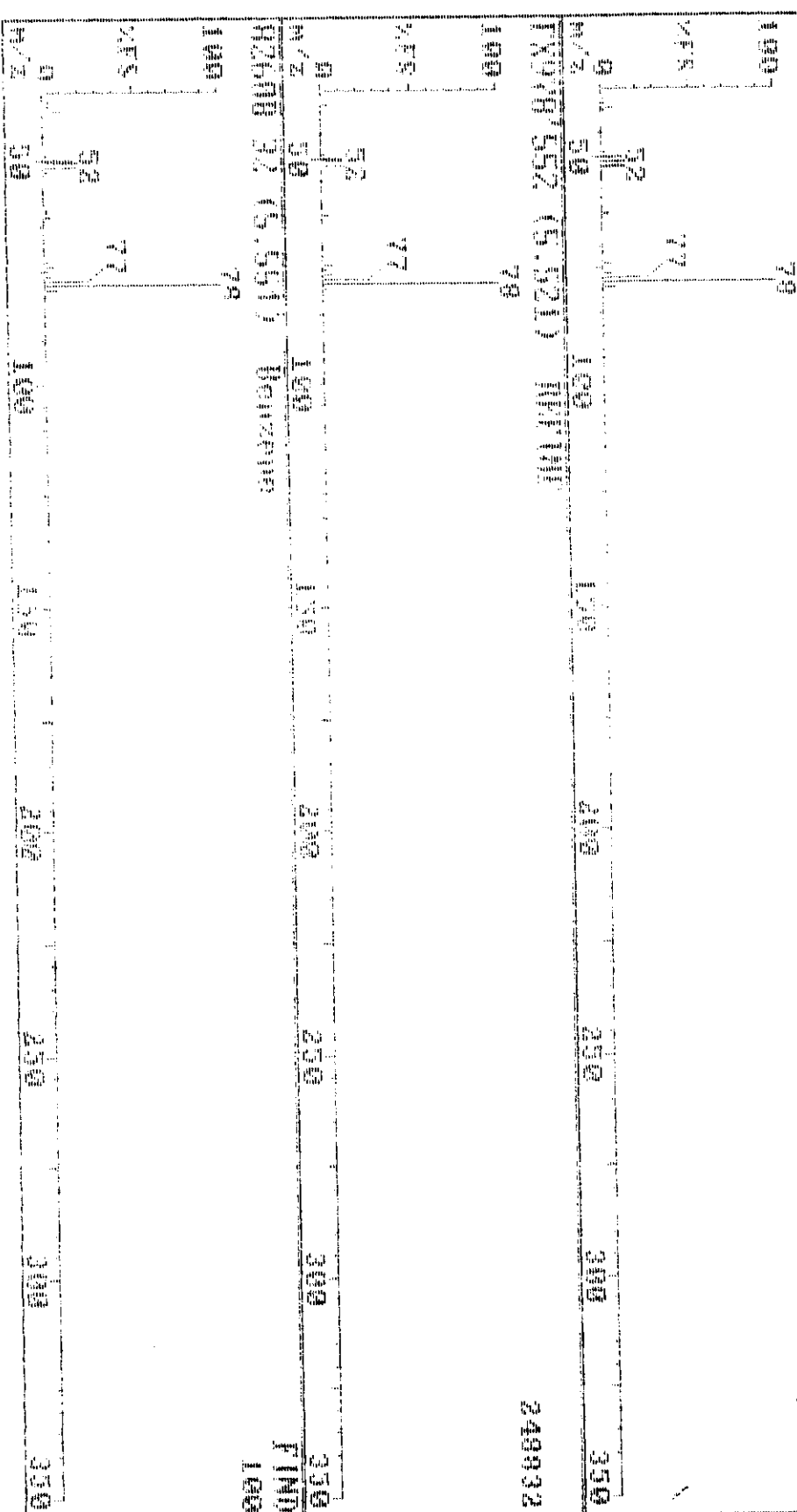
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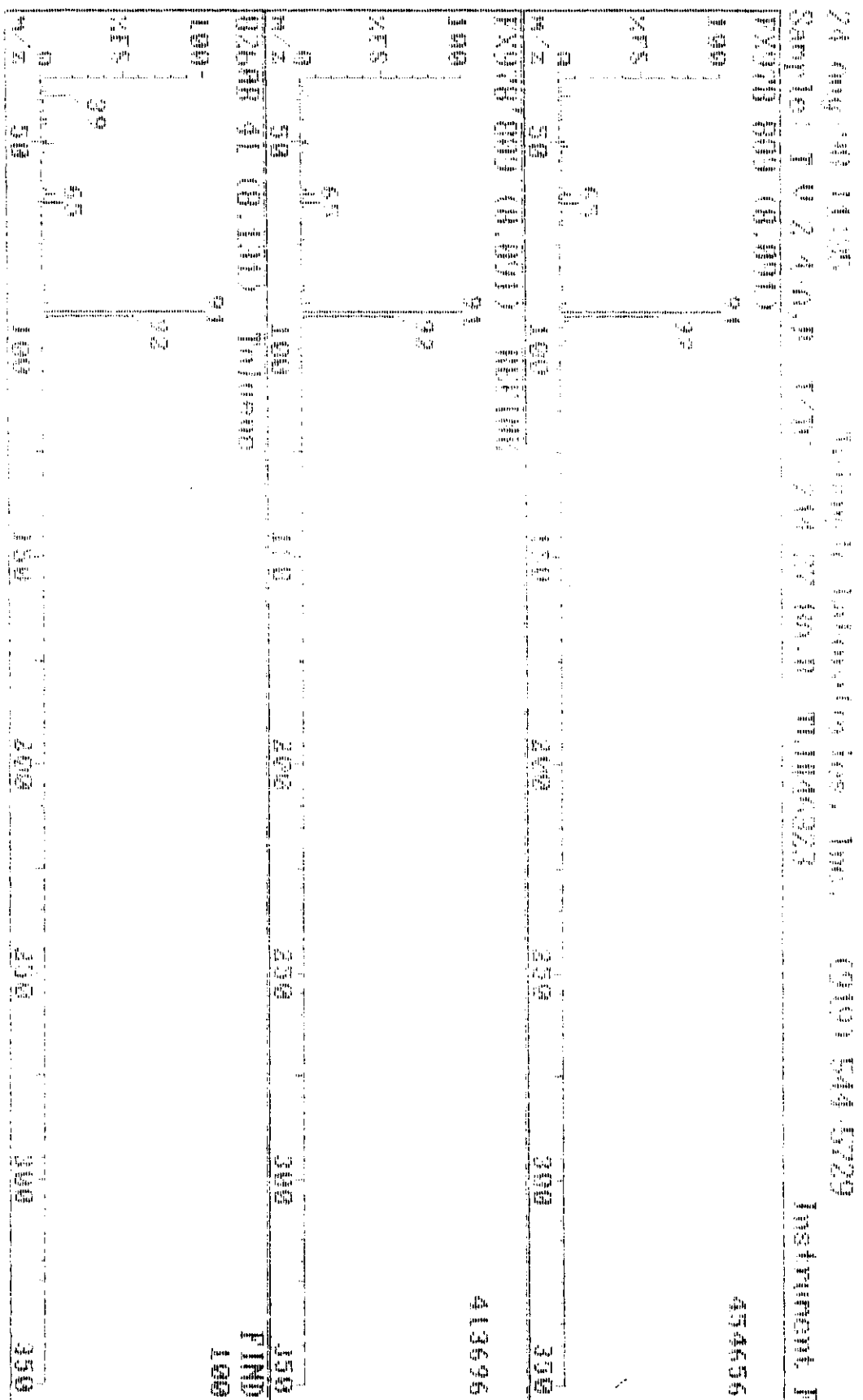
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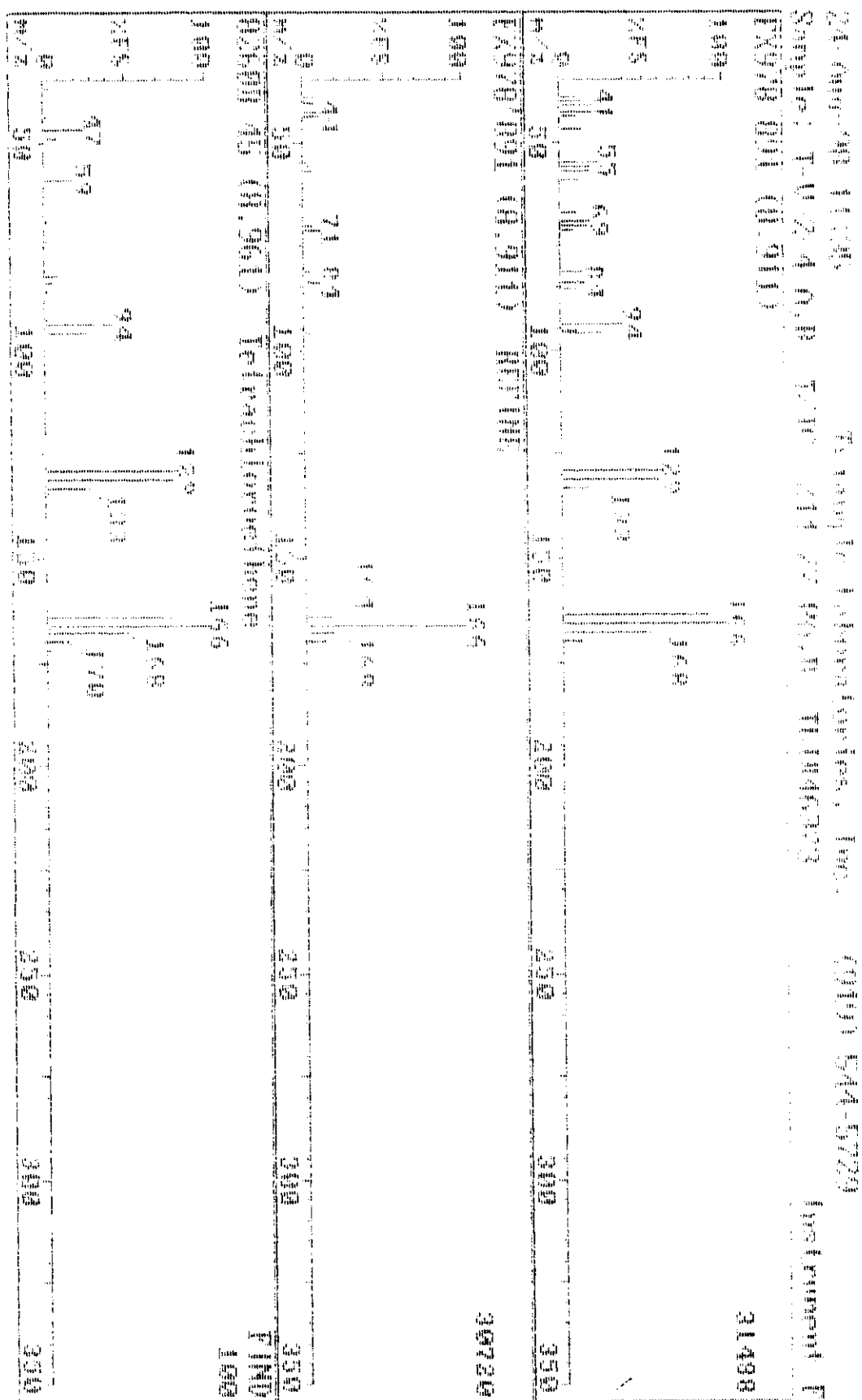
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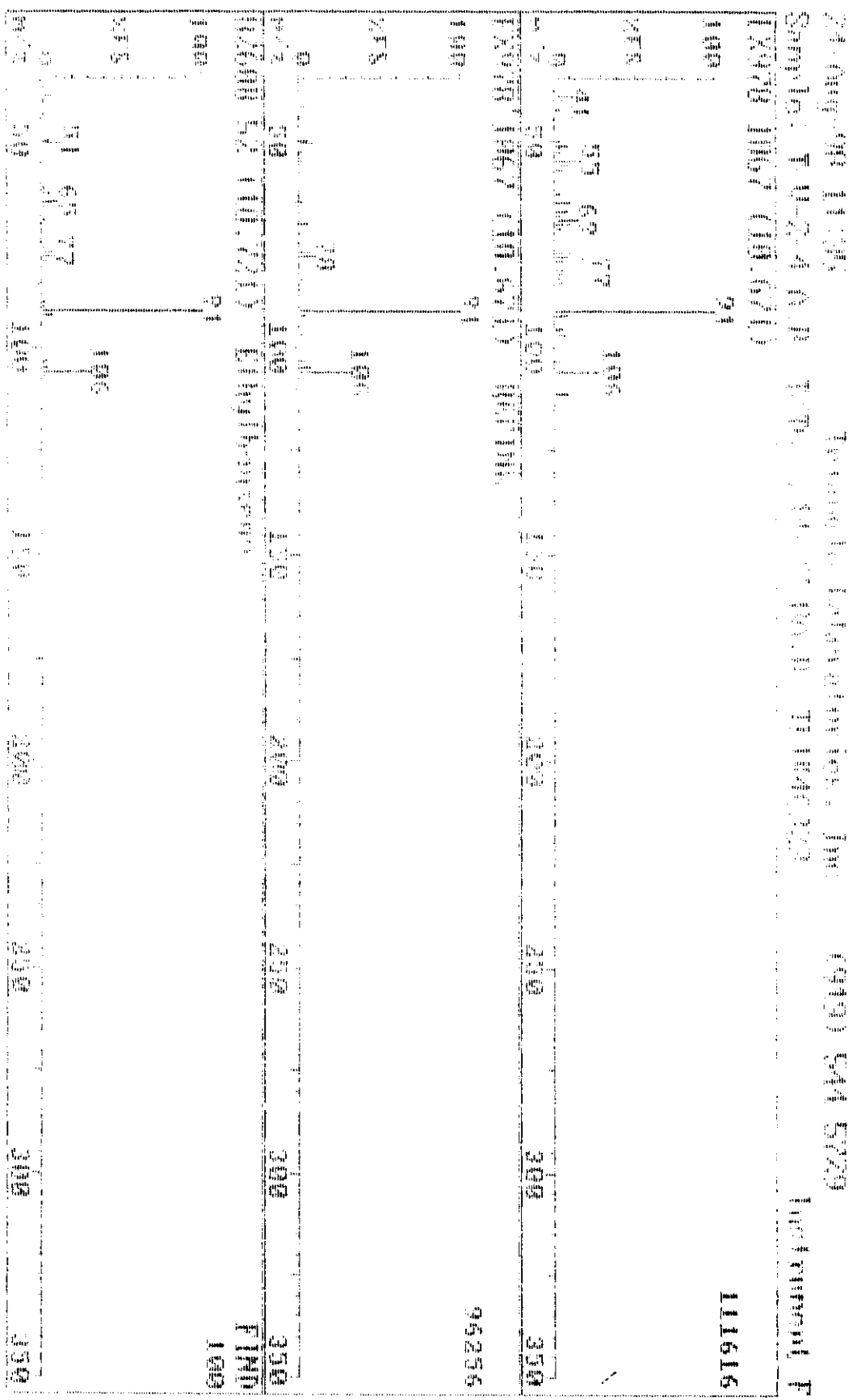
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$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}}$

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Instrument 100 100 100

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20000 100 100

Instrument 100 100 100

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24-Aug-98 11:35

Triangle Laboratories, Inc.

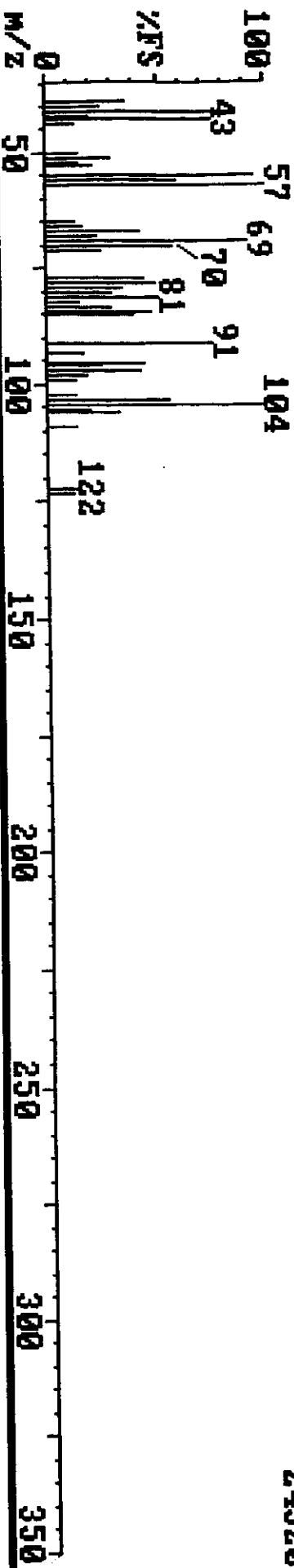
(919) 544-5729

Sample: T-U-2-4-A,B T/TC 214-27-8A,B TL#46323

Instrument F

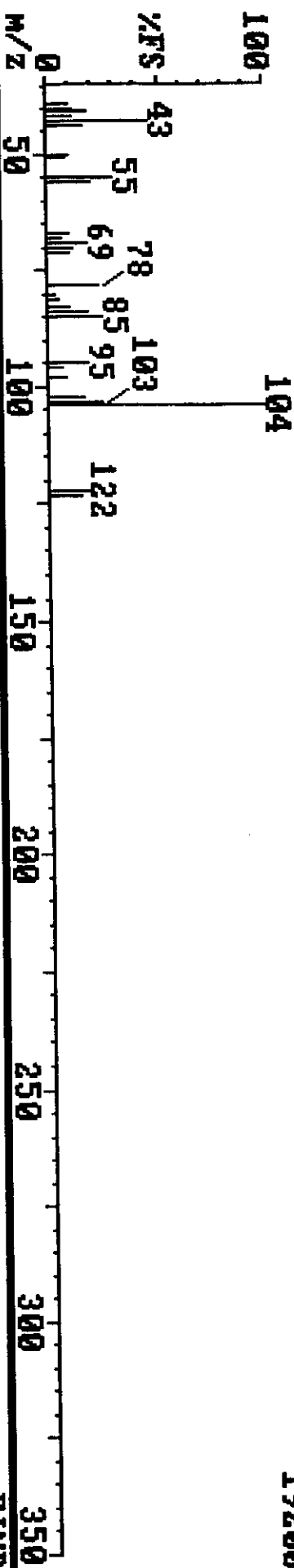
FX978 1170 (11.701)

24320



FX978 1170 (11.701) REFINE

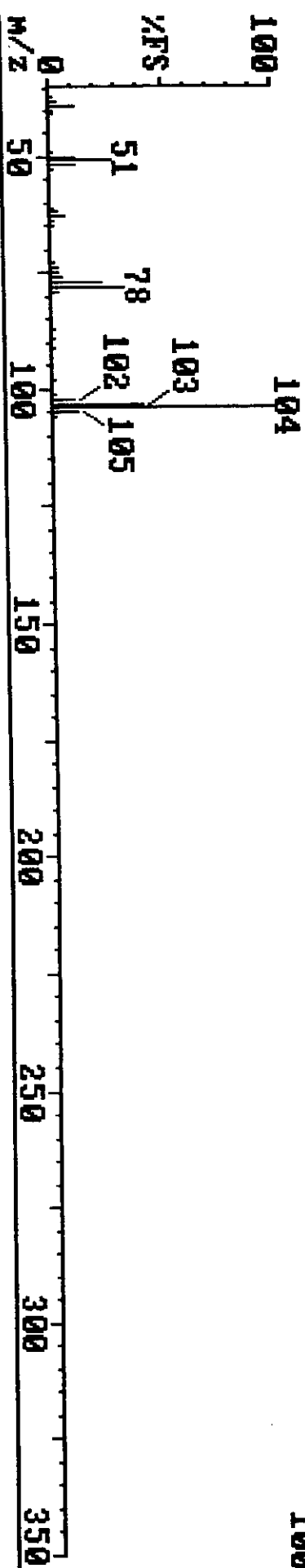
19200



8260 44 (12.371) Styrene

FIND

100



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

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-16A,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		0.004	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 ₅		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 ₄		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

Triangle Laboratories, Inc.

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Printed: 16:49 08/25/1998

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

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.209	5.19	1	84
Toluene-d ₈	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

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Printed: 16:49 08/25/1998

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

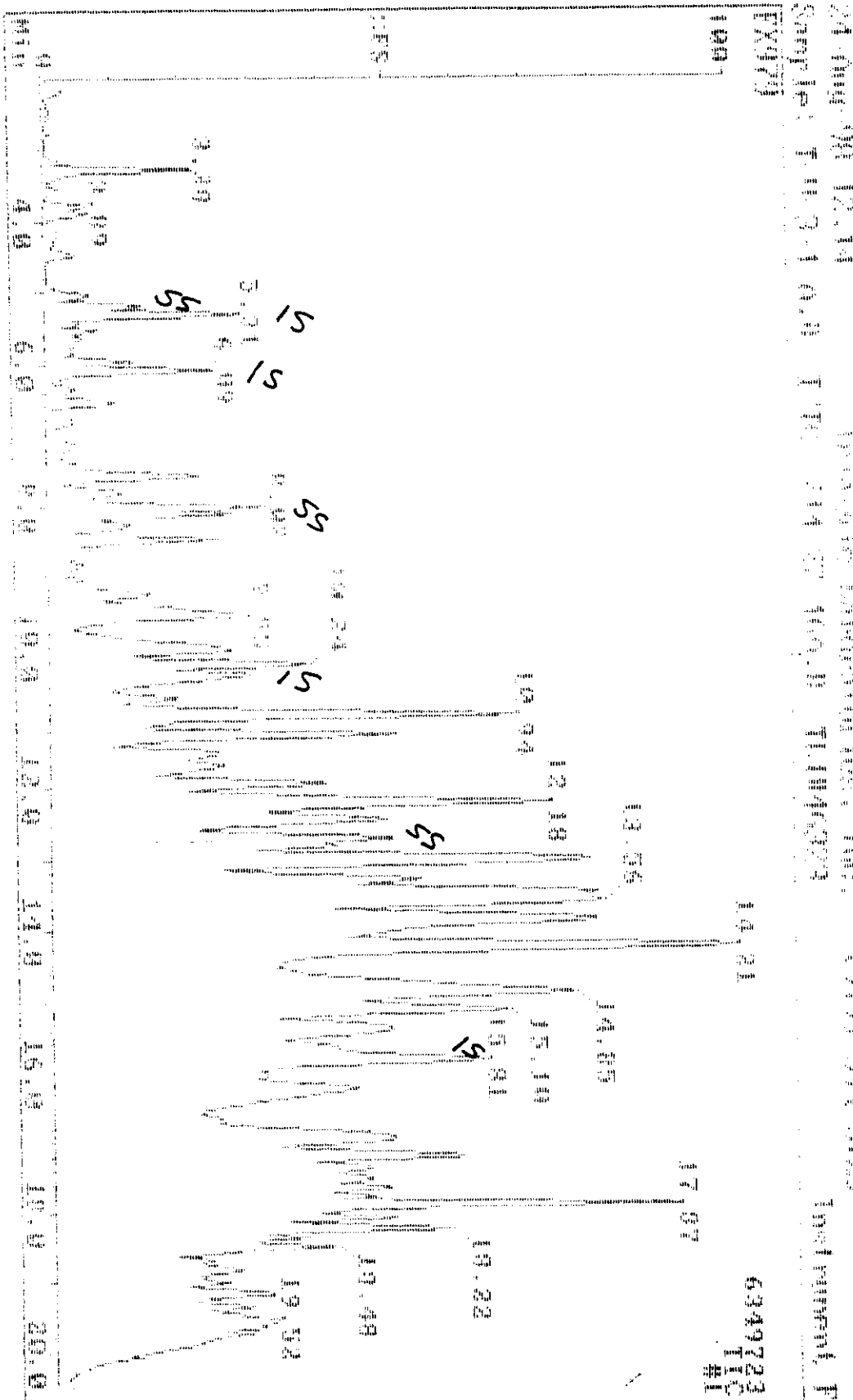
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Savar v3.7.

Printed: 17:21 08/25/1998



Data Review: PAB
Date: 8/24/98

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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

Age	Sex	Height	Weight	Age	Sex	Height	Weight	Age	Sex	Height	Weight
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52	M	64	140	0	M	64	140	0	M	64	140
53	M	64	140	0	M	64	140	0	M	64	140
54	M	64	140	0	M	64	140	0	M	64	140
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66	M	64	140	0	M	64	140	0	M	64	140
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356320 - (M) ParB

1172

PK	RT	FOR	SPY	Q-1	Q-2	RT	Q-3	Q-4
1	100	75	25	2	4124592	100	5.1311	103 2-methylfluorobenzene
2	100	90	10	0	4145872	100	5.1381	114 1,4-difluorobenzene
3	100	75	25	1	4214038	100	5.1401	117 1-fluorobenzene
4	100	75	25	1	4224500	100	5.1402	132 1,2-difluorobenzene
5	100	75	25	2	4300843	100	5.1421	133 1,3-difluorobenzene
6	100	85	15	0	4327512	100	5.1421	28 Polymers
7	70	45	25	1	4356796	100	5.1421	35 4-fluorobenzene
8	100	75	25	0	4356796	100	5.1421	39 1,3-difluorobenzene
9	100	75	25	0	4356796	100	5.1421	106 1,2-difluorobenzene
10	100	75	25	2	4356796	100	5.1421	73 2-fluorobenzene
11	100	75	25	1	4356796	100	5.1421	17 1-fluorobenzene
12	100	75	25	1	4356796	100	5.1421	42 1,2-difluorobenzene
13	100	75	25	1	4356796	100	5.1421	1 1-fluorobenzene
14	100	75	25	1	4356796	100	5.1421	1 1-fluorobenzene

GP PAB

GP PAB

GP PAB

24-Aug-98 12:14

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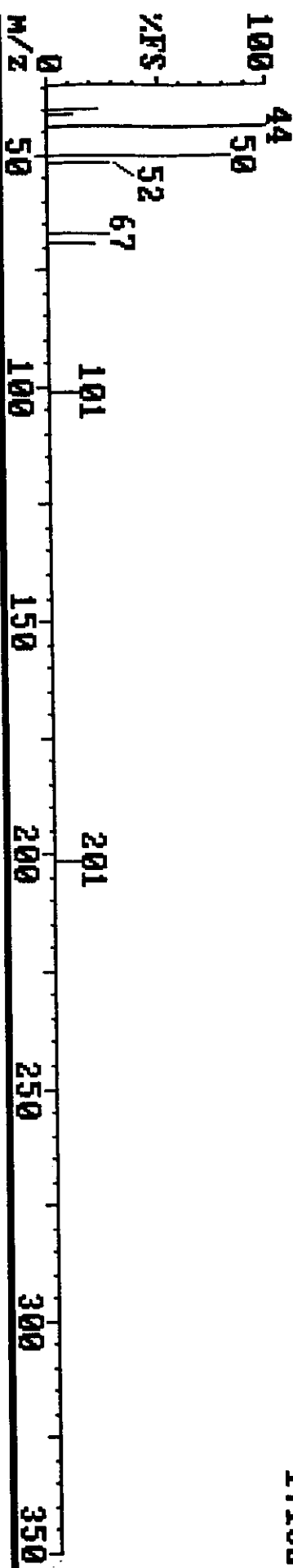
(919) 544-5729

Sample: T-U-3-1-A,B T/TC 214-27-16A,B TL1#46323

Instrument F

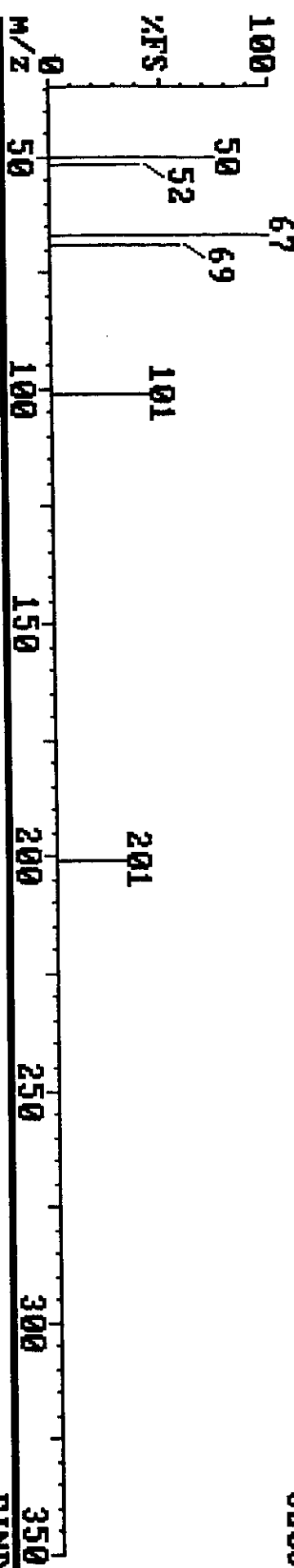
FX979 108 (1.080)

17152



FX979 108 (1.081) REFINE

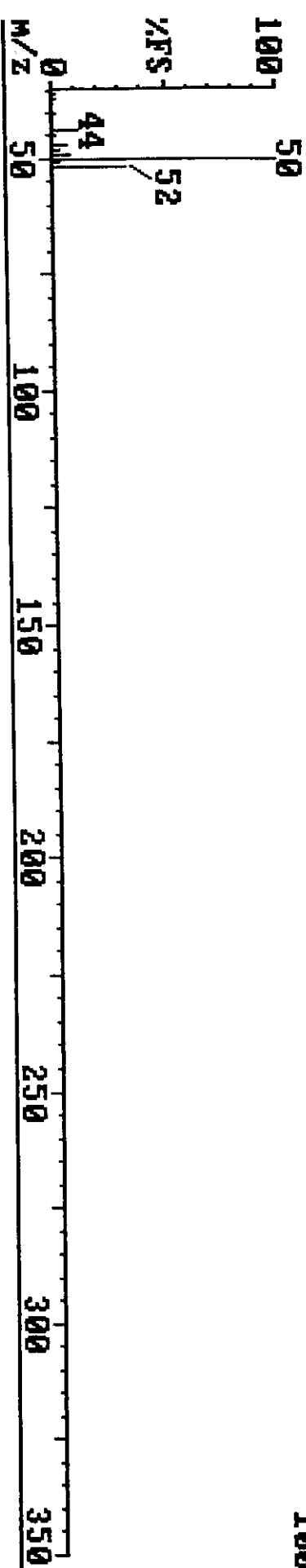
6208



8260 9 (1.230) Chloromethane

FIND

100



14-Aug-98 12:14

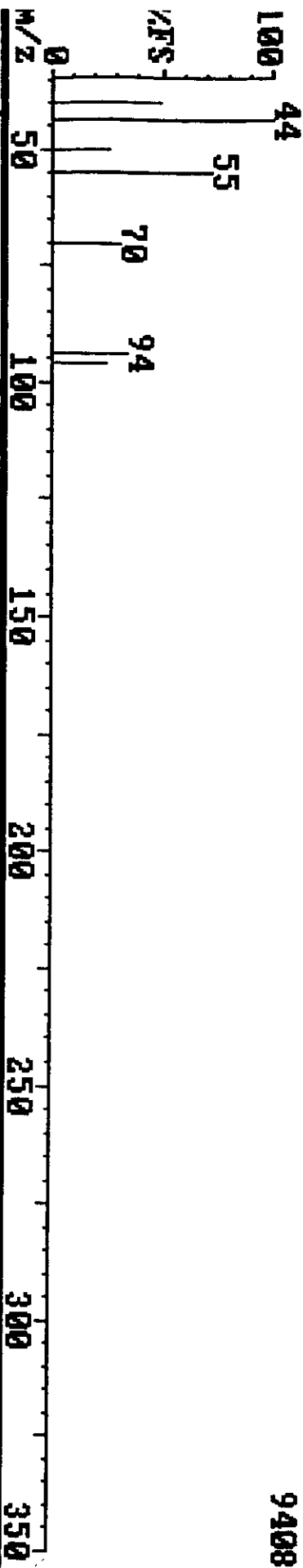
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(919) 544-5729

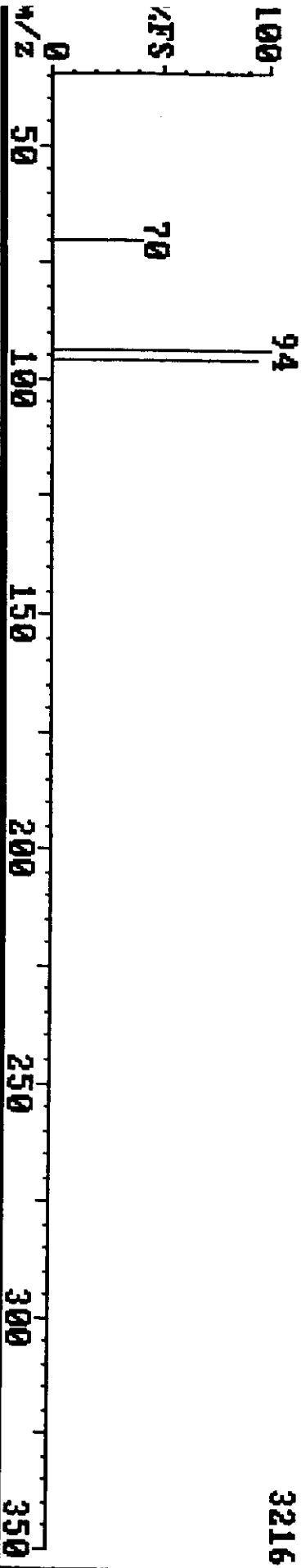
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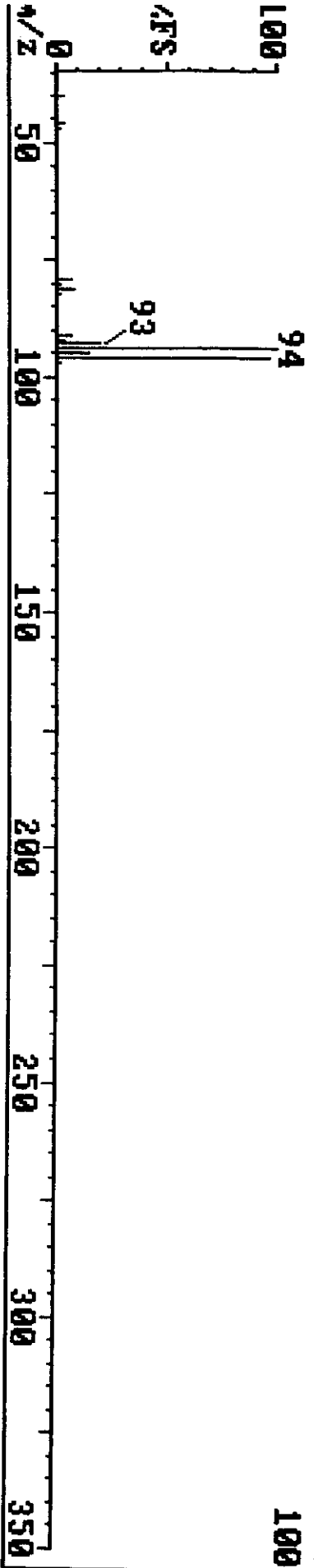
FX979 166 (1.660)



FX979 166 (1.661) REFINE



3260 11 (1.830) Bromomethane



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[illegible]

1987

[illegible]

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346

24-Aug-88 12:14

Sample: T-W-3-1 0.00 1000 0.00 0.00 0.00

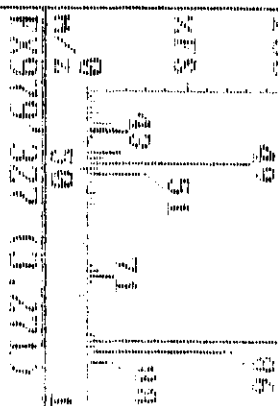
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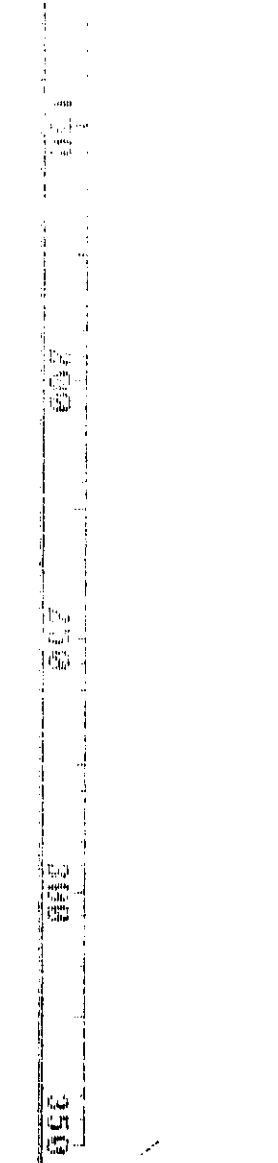
Instrument F

FW19 327 (0.270)

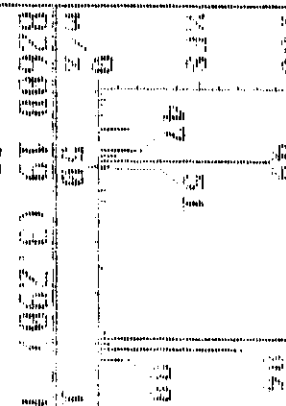
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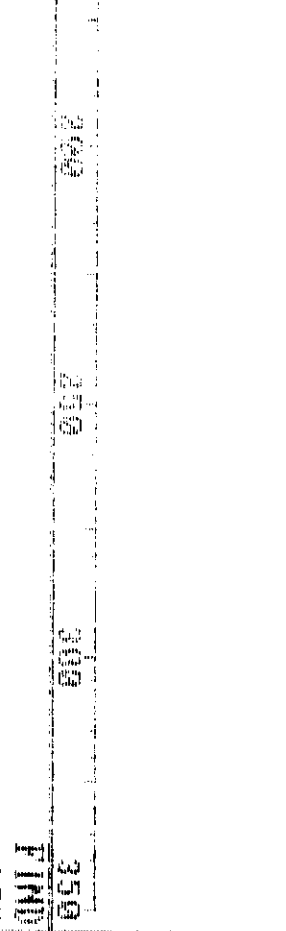
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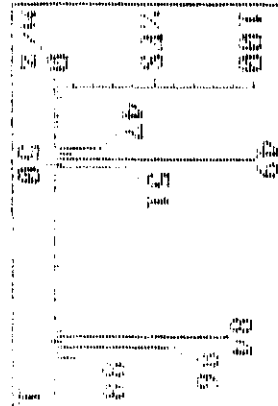
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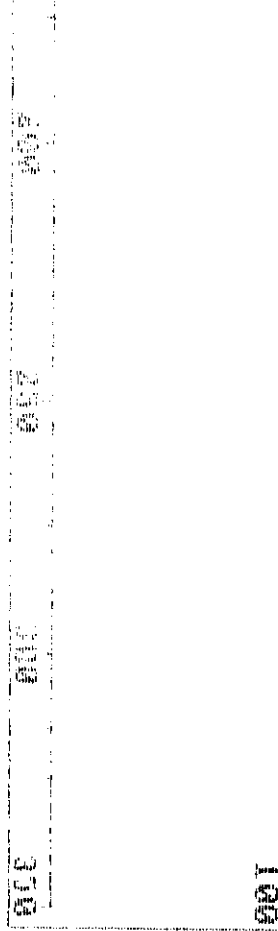
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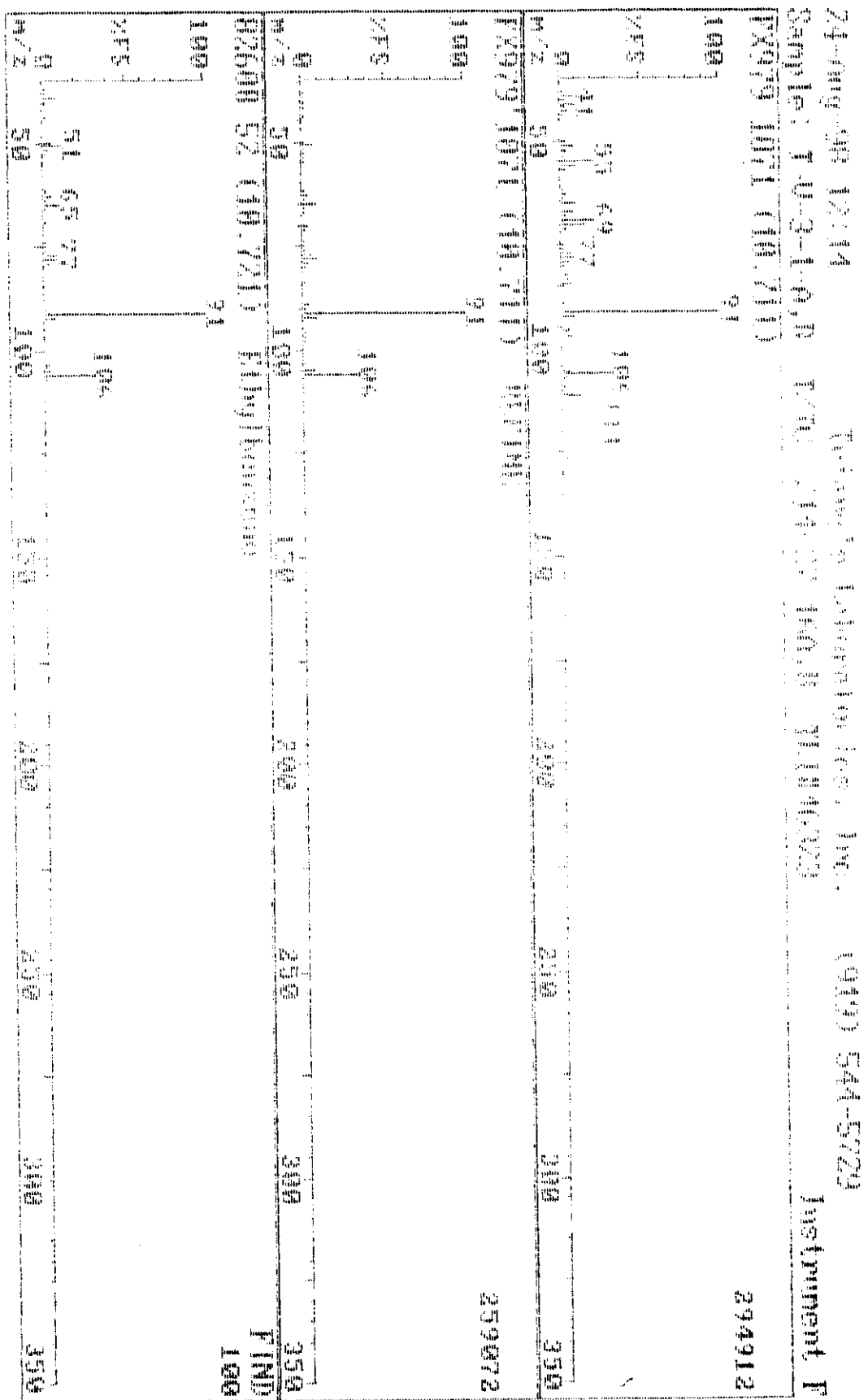
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FW19 327 (0.270) 1000



307200



2-100 30 2.4

Sample: T-40-1 A.6 T-40 20-7-60.0 T-40323

(40) 544-572

Sample: T-40-1 A.6 T-40 20-7-60.0 T-40323

Instrument F

974848

100

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1100

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24-Aug-98 12:14

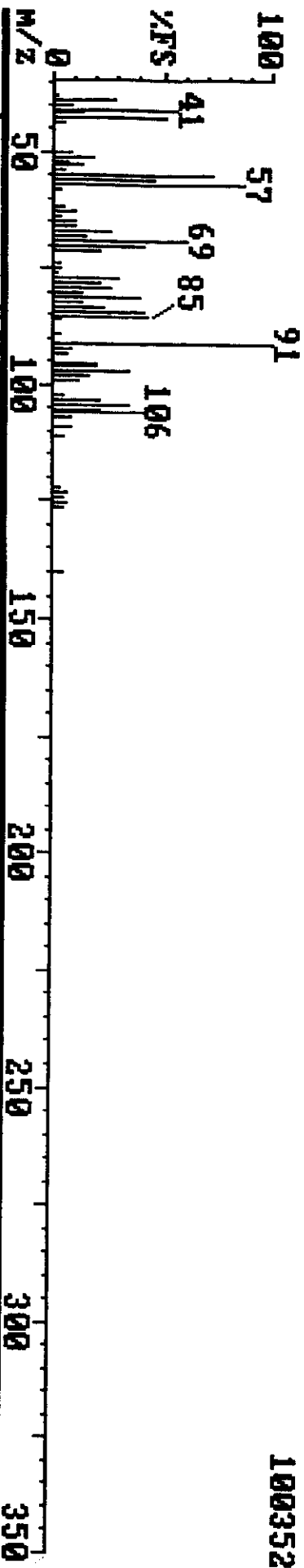
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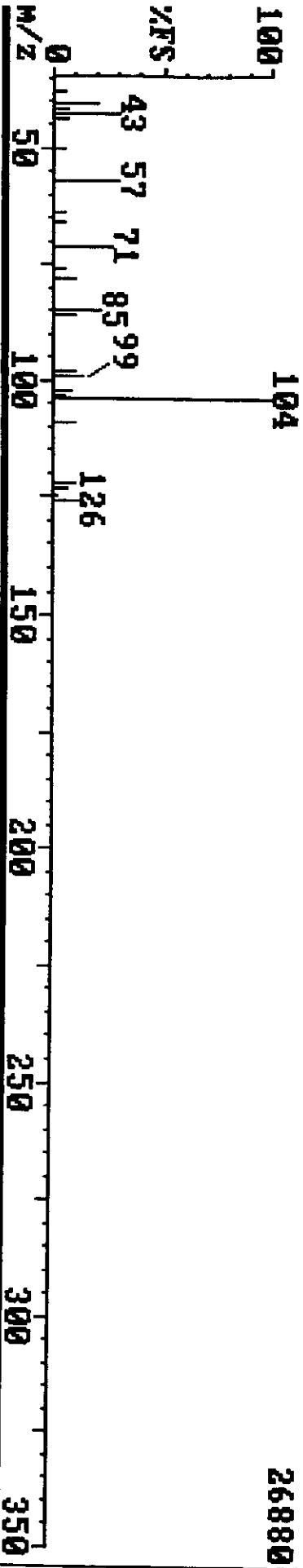
Sample: T-U-3-1-A,B T/TC 214-27-16A,B TL1#46323

Instrument F

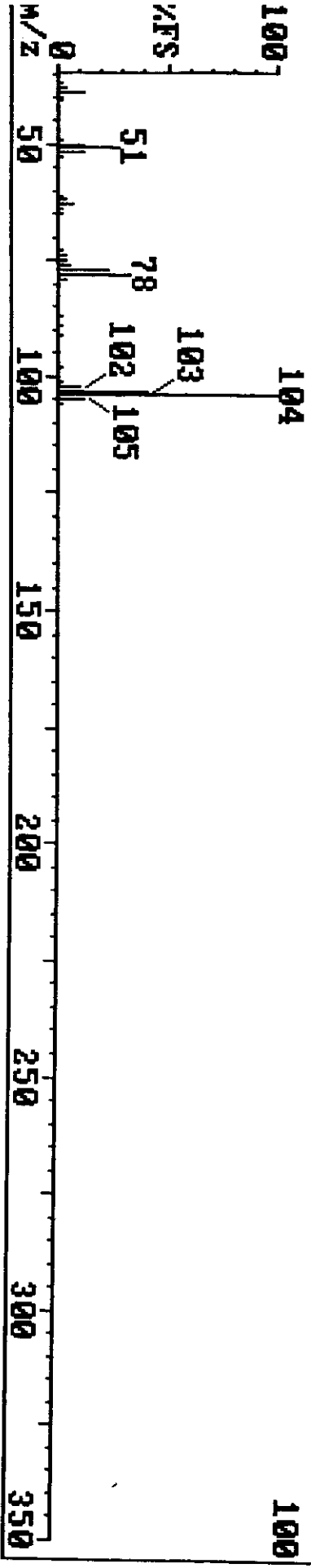
FX979 1172 (11.721)



FX979 1172 (11.721) REFINE



B260 44 (12.371) Styrene



FIND

100

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

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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

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
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 ₅		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 ₄		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

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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

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-17A,B

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.205	5.18	1	82
Toluene-d ₈	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.

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Savar v3.7

Printed: 16:49 08/25/1998

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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 PARB Date 8/25/98

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

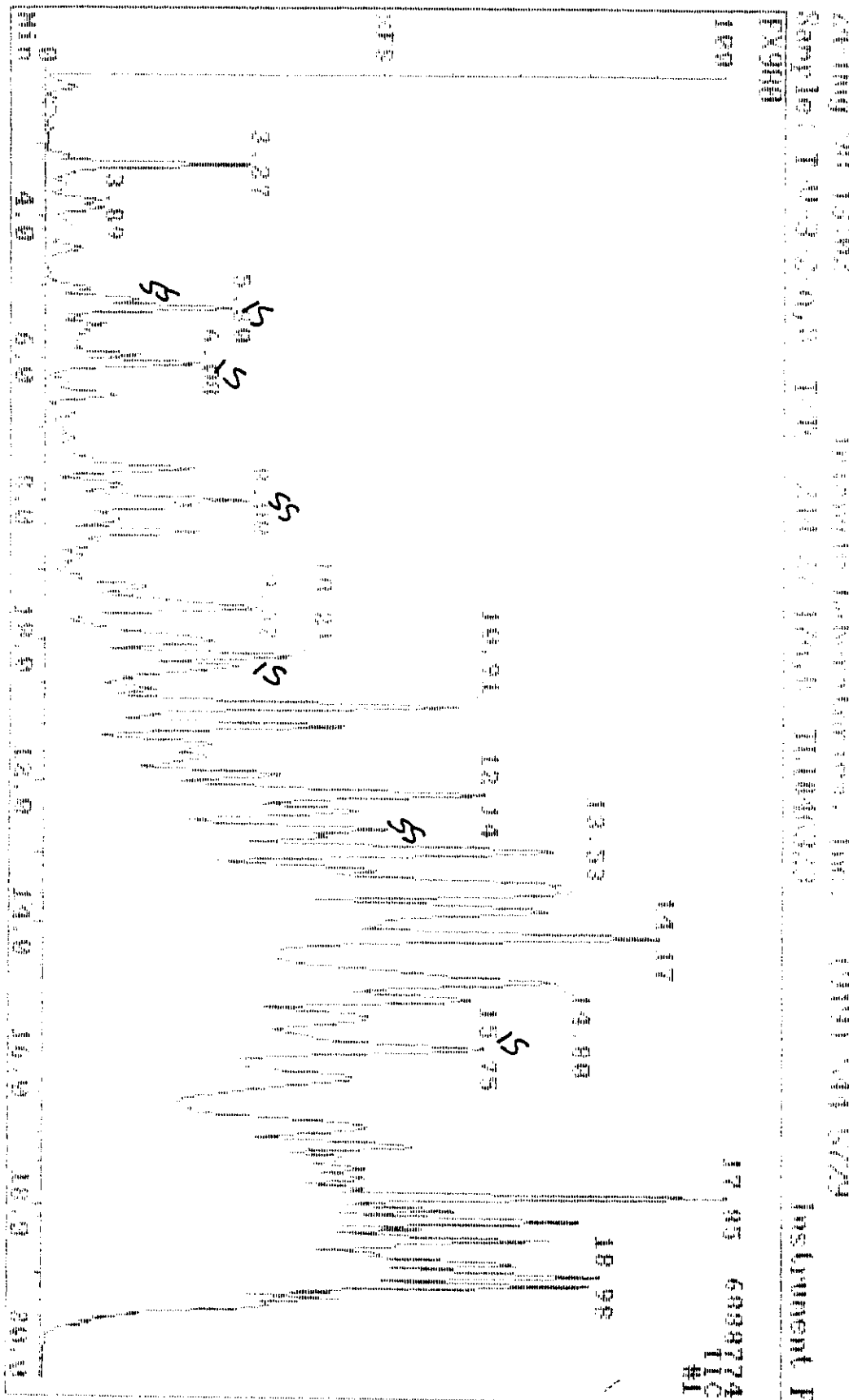
IS: Internal Standard; U: Undetected; B: Present In Blank; J: Estimated- Below Quantitation Limit; E: Estimated- Above Calibration Range

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

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161



Data Review: PAB
Date: 8/24/98

[illegible]

Data Review: PAR
Date: 8/24/98

No.	Pin	FOR	RTV	Serial	Manufacturer	RT	Q# Name
1	100	70	27	1	1001356 100	5.001	103 Pentabenzofuran
2	100	82	25	0	4022275 100	6.001	104 1,4-Dichlorobenzene
3	20	71	27	-1	1009136 100	10.001	107 Chlorobenzene (15)
4	20	20	32	0	1008182 100	12.001	102 1,4-Dichlorobenzene
5	100	65	27	0	1007408 100	5.001	103 Dichlorobenzene
6	100	82	24	0	1008442 100	8.001	104 Toluene
7	20	16	21	0	1001618 100	10.001	105 1,4-Dichlorobenzene
8	20	7	2	0	1001618 100	10.001	106 Methyl Bromide
9	1	1	1	0	0	0.000	107 HFC
10	60	33	43	1	100560 100	5.001	108 Chloroform
11	100	21	21	0	1007001 100	5.001	109 1,1,2,2-Tetrachloroethane
12	20	1	1	0	1001618 100	10.001	110 1,1,2,2-Tetrachloroethane
13	20	1	1	0	1001618 100	10.001	111 1,1,2,2-Tetrachloroethane
14	20	1	1	0	1001618 100	10.001	112 1,1,2,2-Tetrachloroethane

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SP PAR

SP PAR

SP PAR

24-Aug-98 13:02

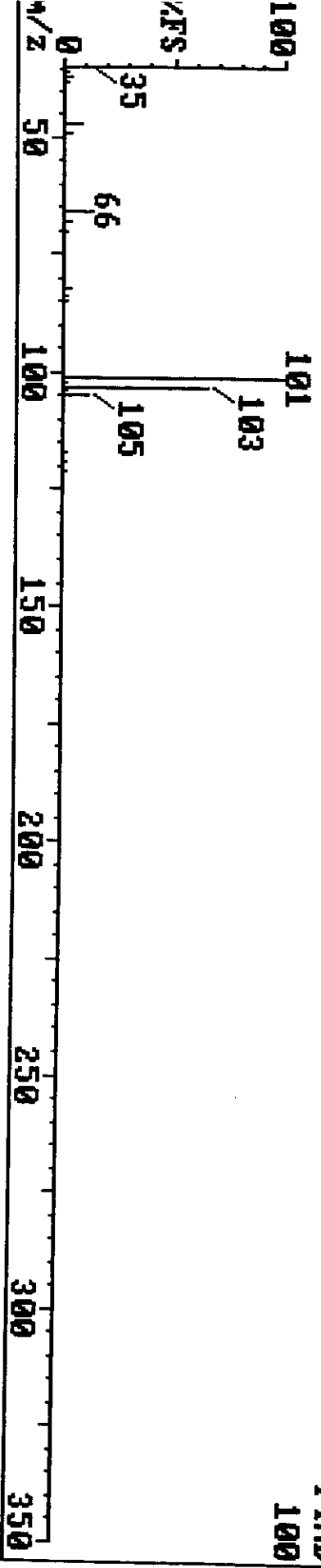
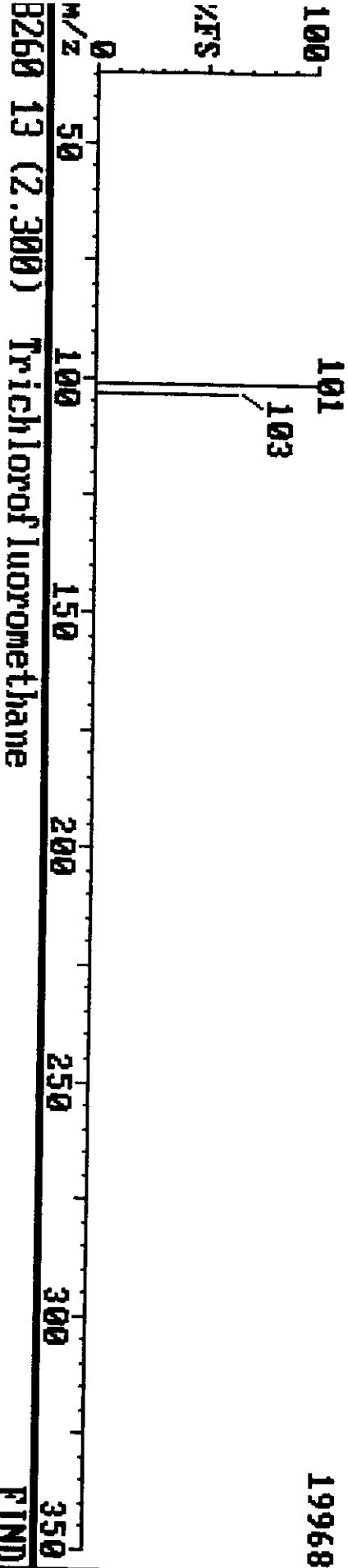
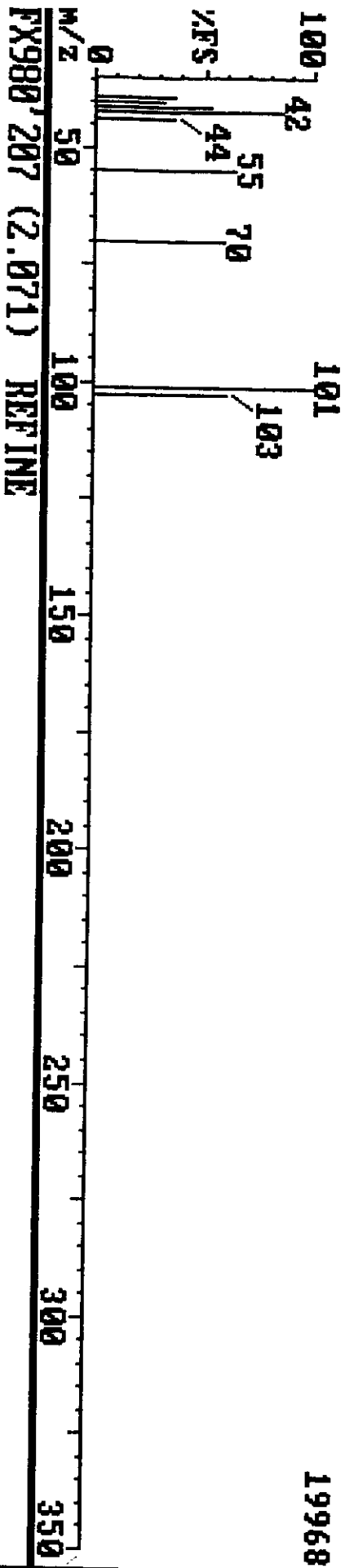
Triangle Laboratories, Inc.

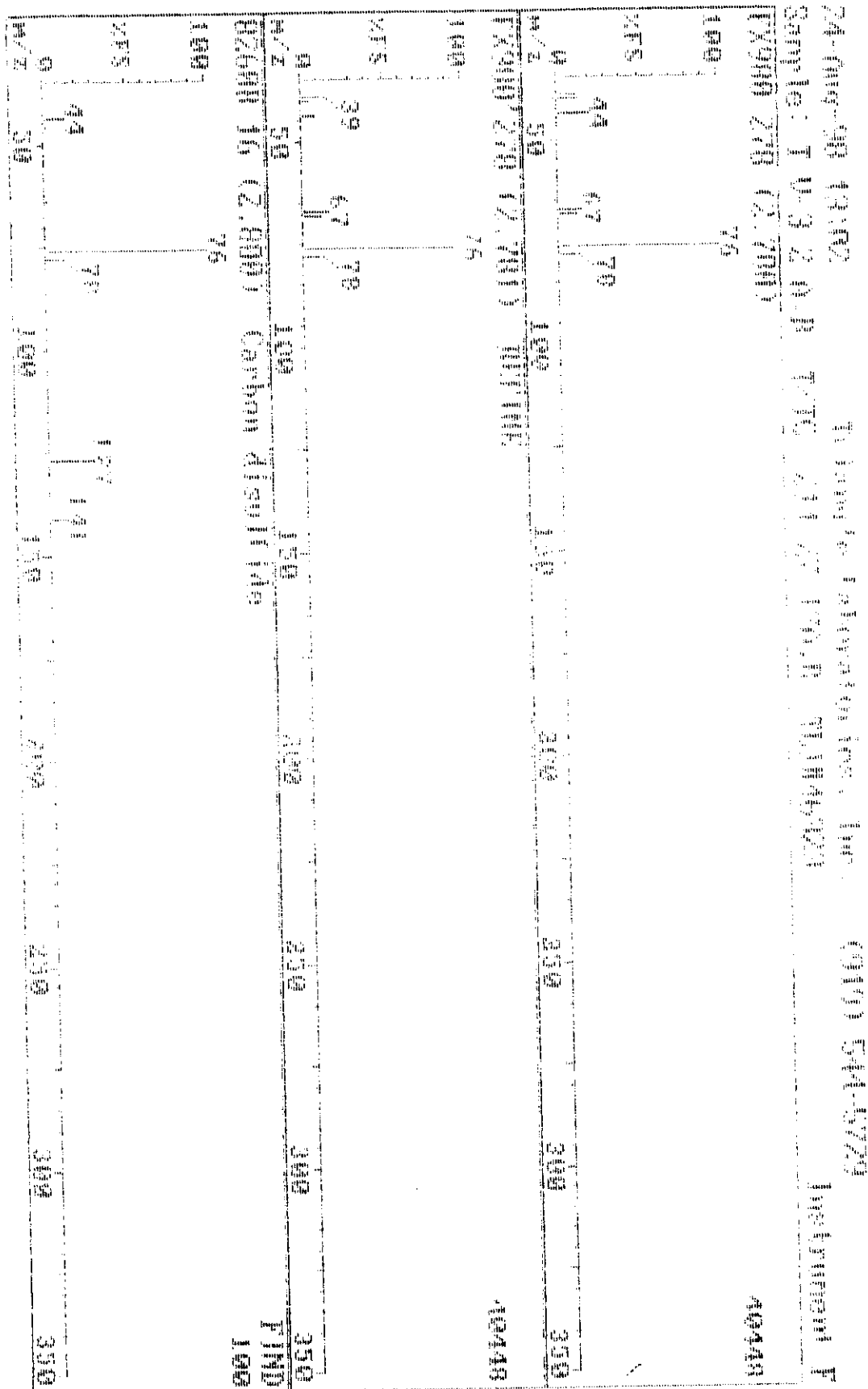
(919) 544-5729

Sample: T-U-3-2-A, B T/TC 214-27-17A, B TL#46323

Instrument F

FX980 207 (2.070)





24000 30 0000

Sample 1-00-2-0

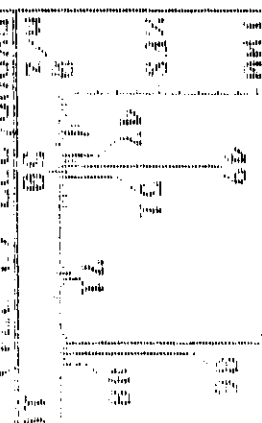
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0000 54-570

Instrument F

EX000 307 0.270

520192



EX000 307 0.270

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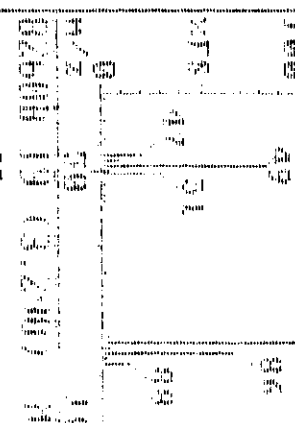
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EX000 307 0.270

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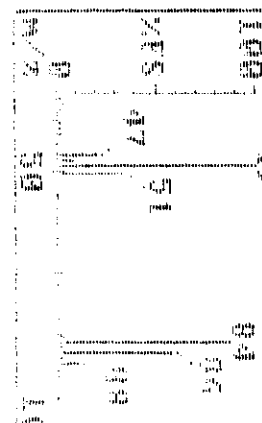
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FINN 100



EX000 307 0.270

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24 Aug 68 1107

Thompson Laboratories, Inc.

(919) 544-5770

Sample: T-003-2 (M)

100.00 / 100.00 11070000

Instrument: F

Time: 1007 (00.070)

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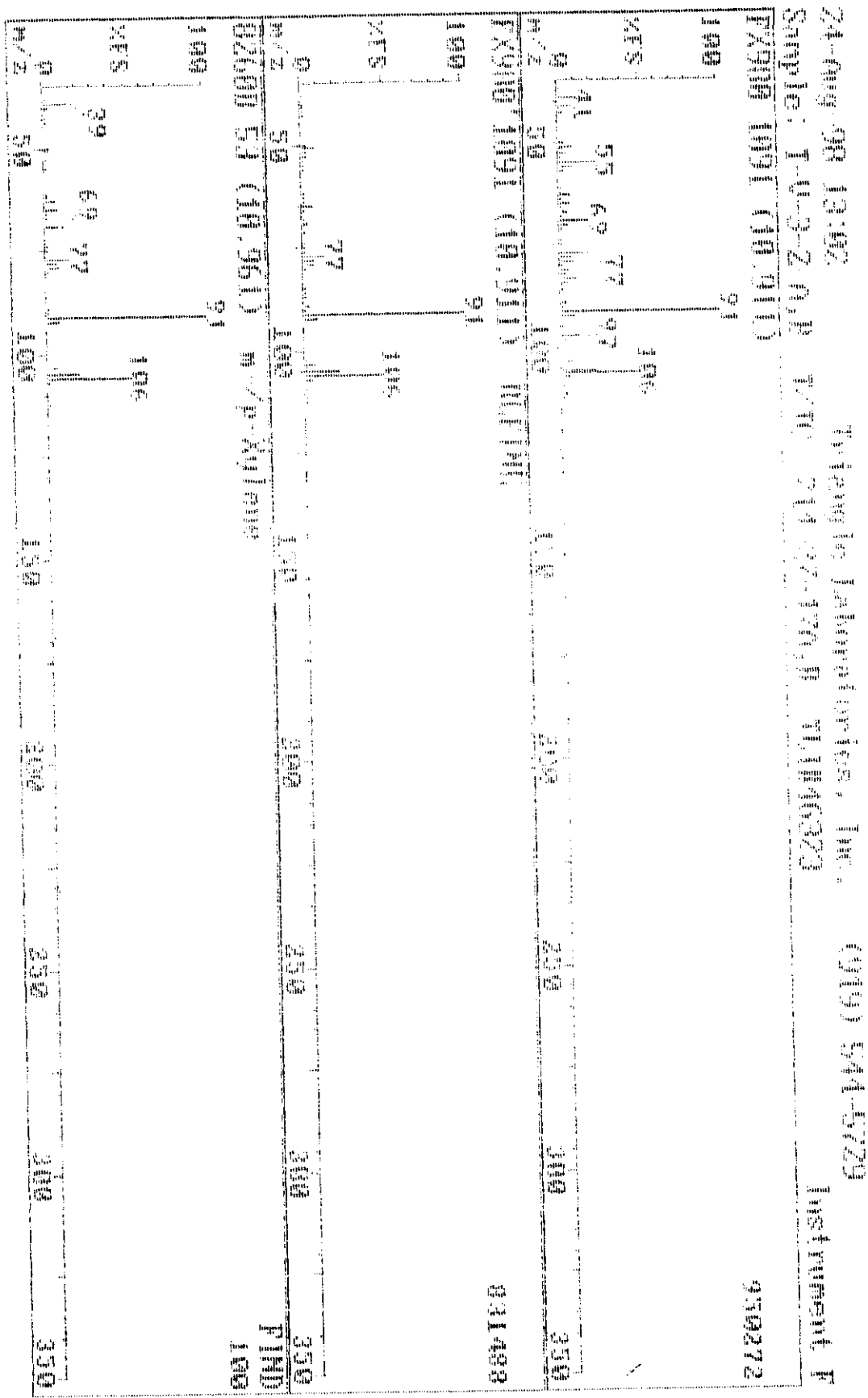
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24-Aug-98 13:02

Sample: 10-32-A10

7/6 24-25-3000 10000000

FX900 100 (11.631)

Instrument F

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24-Aug-98 13:02

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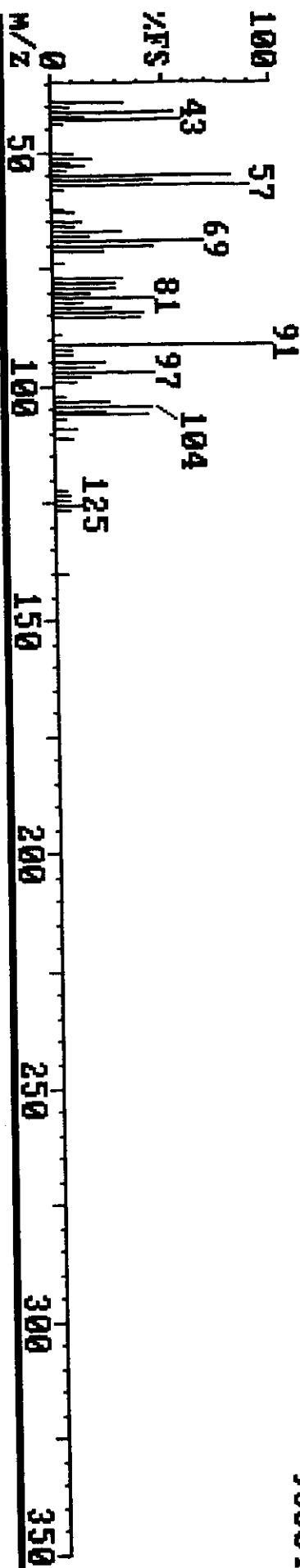
(919) 544-5729

Sample: T-U-3-2-A,B T/TC 214-27-17A,B TL1#46323

Instrument F

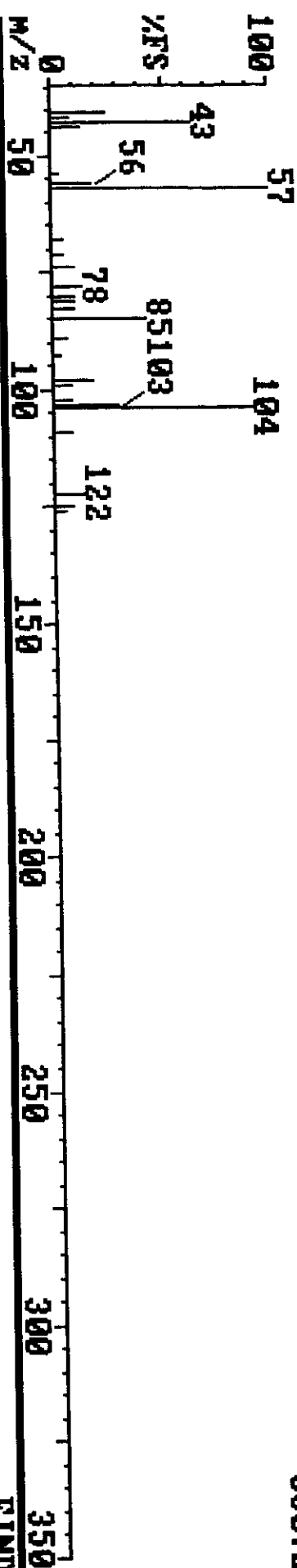
FX980 1169 (11.691)

98304



FX980 1169 (11.691) REFINE

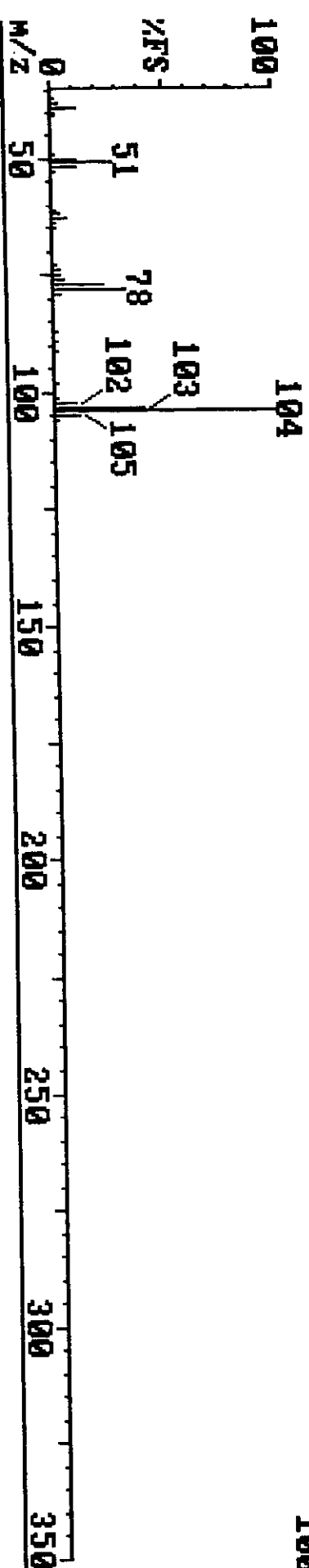
35072



8260 44 (12.371) Styrene

FIND

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

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Good to go
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 ₅		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 ₄		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

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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

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-18A,B

Date Analyzed : 08/24/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.210	5.19	1	84
Toluene-d ₈	0.265	8.02	2	106
4-Bromofluorobenzene	0.268	12.69	2	107

Reviewed by SAB 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: 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: 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 _____

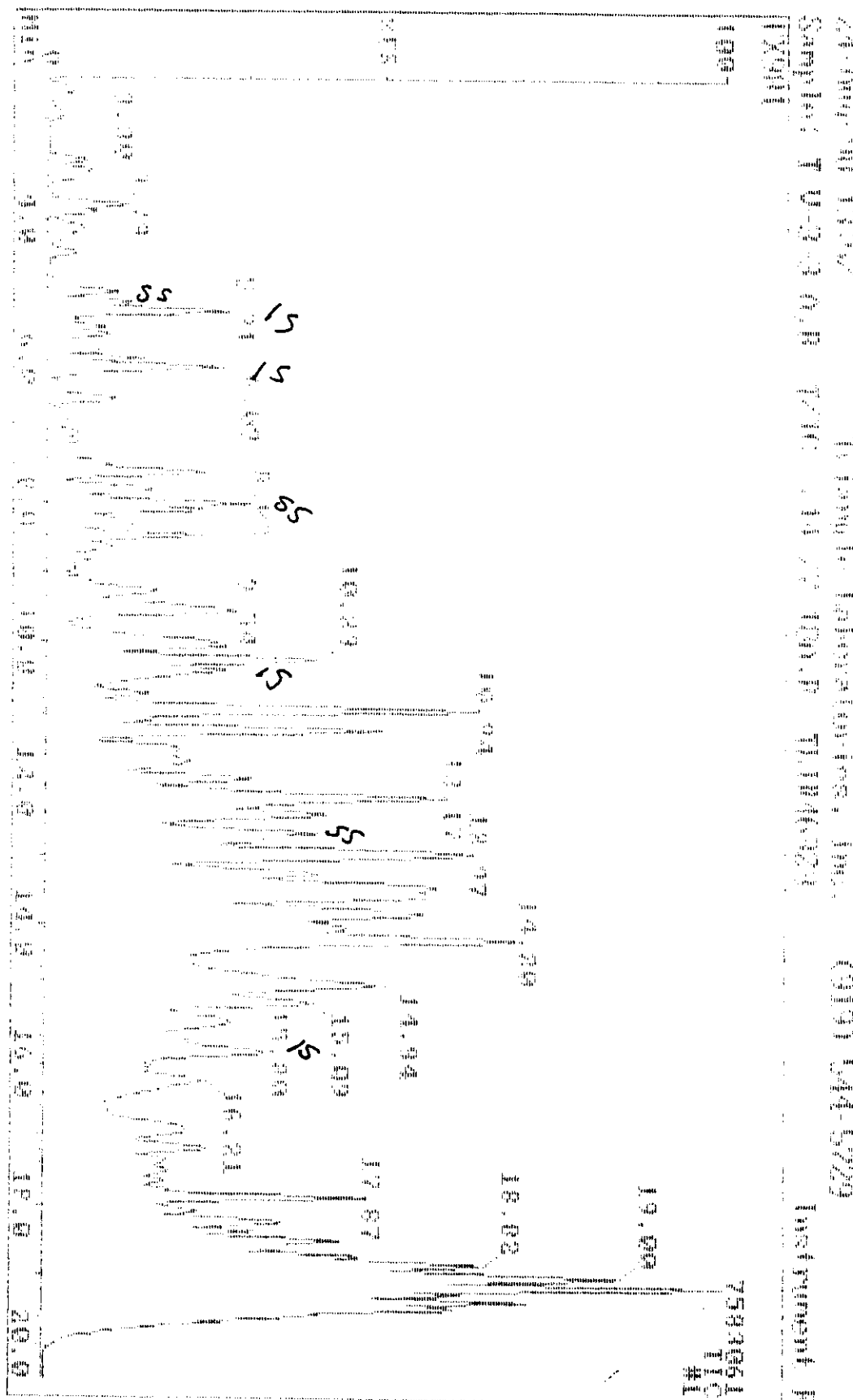
ParB

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	95	2	4352064	bb	5.1311	100 Perfluorobenzene
2	100	60	91	3	4277304	bb	6.1311	114 1,4-Difluorobenzene
3	93	87	82	1	3195160	bb	10.1311	117 Chlorobenzene, etc
4	13	22	33	1	1347450	bb	13.1312	152 1,3-Difluorobenzene, etc
5	100	66	95	0	1437257	bb	5.1321	113 Dibromodifluoromethane
6	100	81	74	0	3231232	bb	8.1021	98 Fluorine, etc
7	70	44	68	1	1115221	bb	12.1321	95 4-Bromodifluorobenzene
8	70	44	68	1	1115221	bb	12.1321	95 1,3-Dibromobenzene
9	0	0	0	0	0		0.1300	106 Methyl bromide
10	24	35	35	4	531176	bb	5.1300	71 MFBF
11	100	96	96	2	1705504	bb	1.1400	57 methanol
12	100	96	96	2	1705504	bb	1.1400	57 1,2-Epoxyethanol
13	100	96	96	2	1705504	bb	1.1400	57 1,2-Epoxyethanol
14	100	96	96	2	1705504	bb	1.1400	57 1,2-Epoxyethanol

SD RUB

SD RUB

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SD RUB

24-Aug-98 13:52

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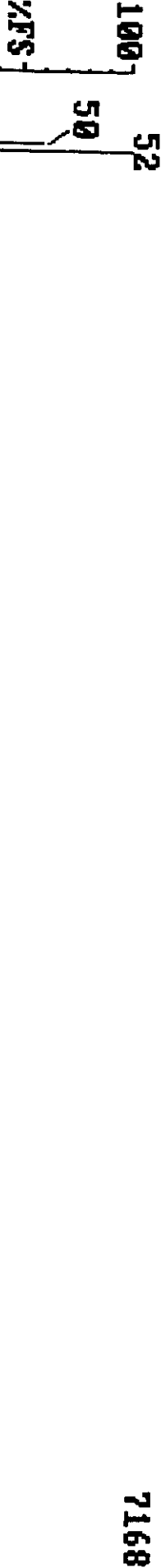
Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL1#46323

Instrument F

FX981 109 (1.090)



FX981 109 (1.091) REFINE



8260 9 (1.230) Chloromethane



8260 9 (1.230) FIND

24-Aug-98 13:52

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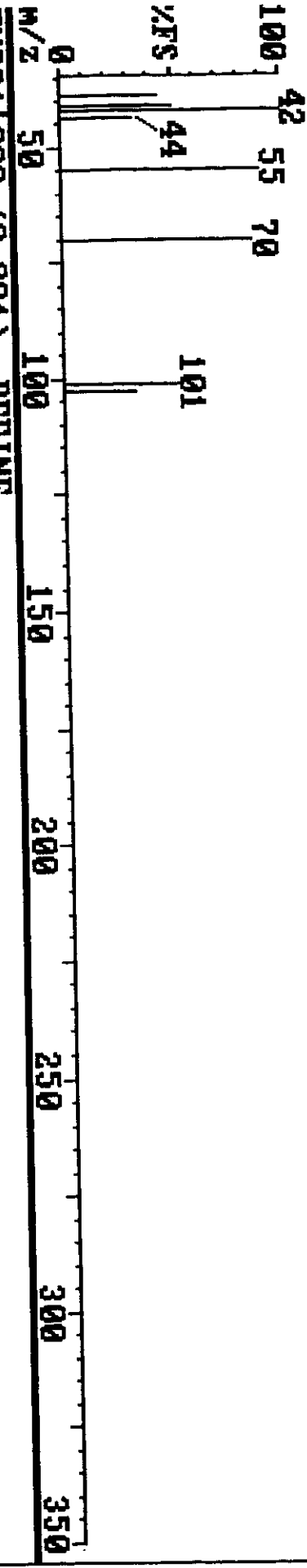
(919) 544-5729

Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL#46323

Instrument F

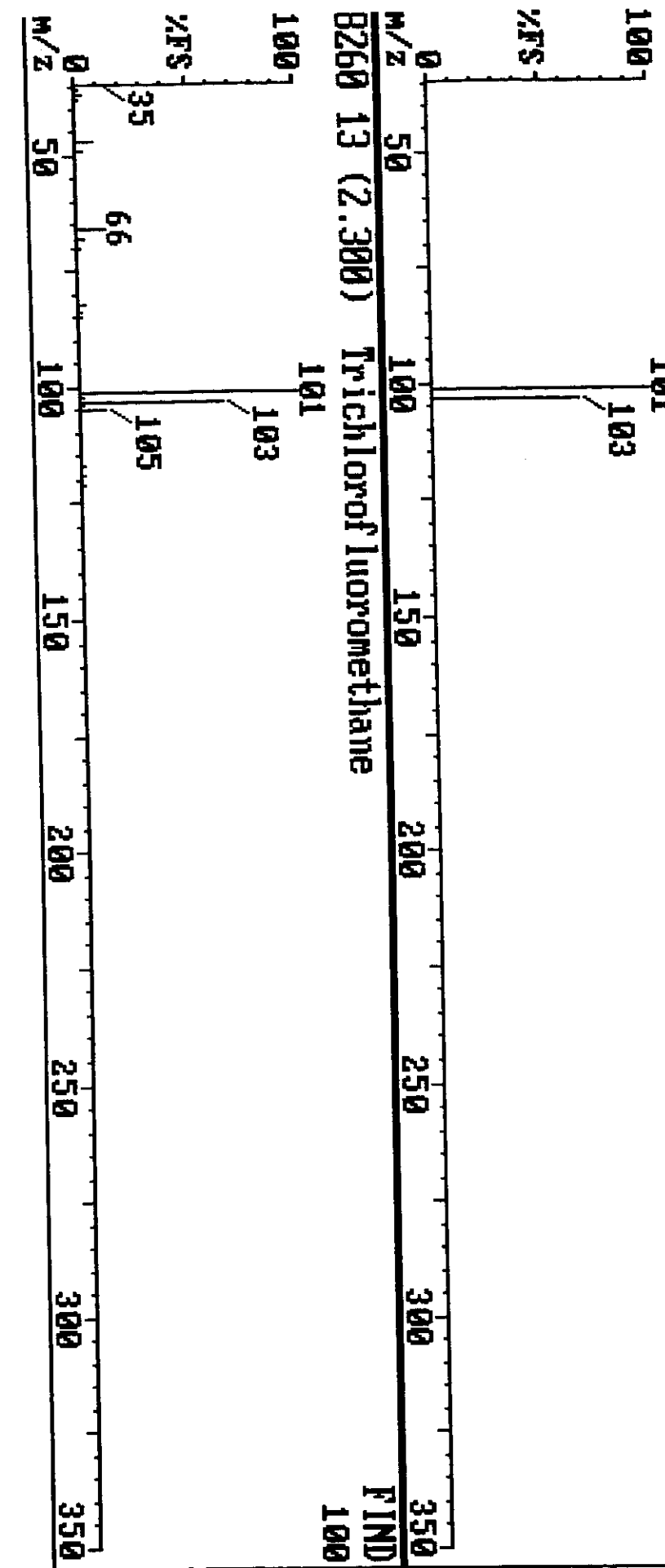
FX981 208 (2.080)

26368



FX981 208 (2.081) REFINE

13632



B260 13 (2.300) Trichlorofluoromethane

FIND 100

24-May-90 13:00

Sample: I-4-3-300

600 541-5723

FX801 279 (2.790)

Instrument: P

51200

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24-Aug-98 13:52

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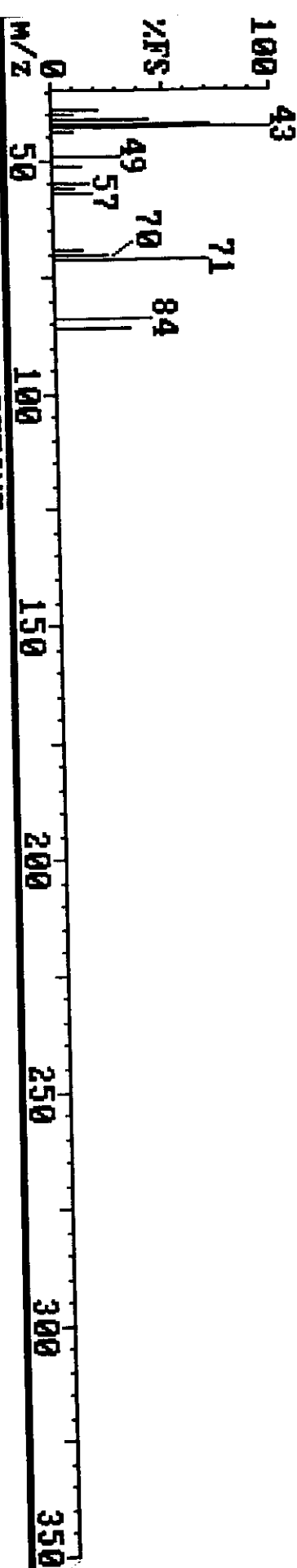
(919) 544-5729

Sample: T-U-3-3-A, B T/TC 214-27-18A, B TL#46323

Instrument F

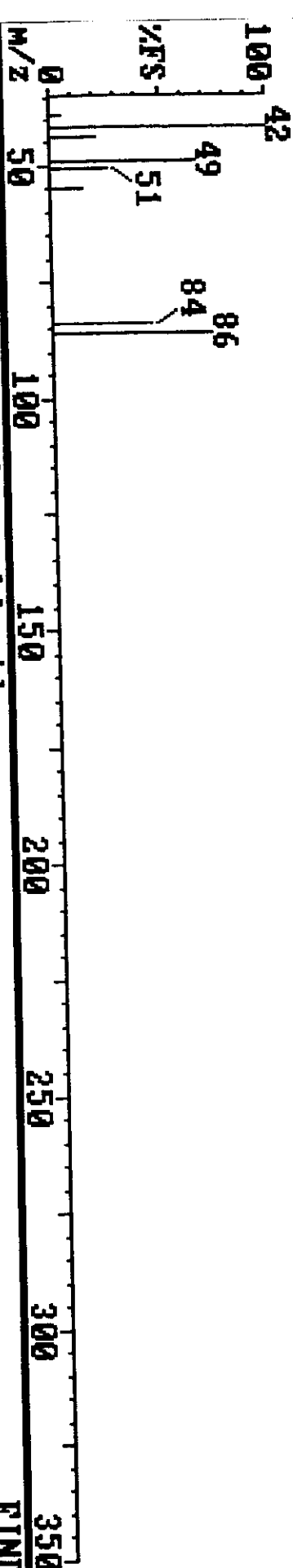
FX981 328 (3.280)

84992



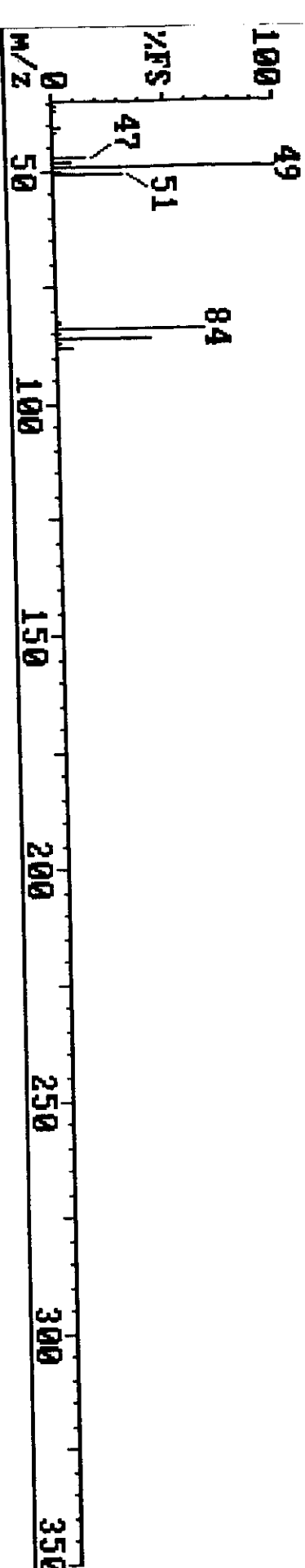
FX981 328 (3.281) REFINE

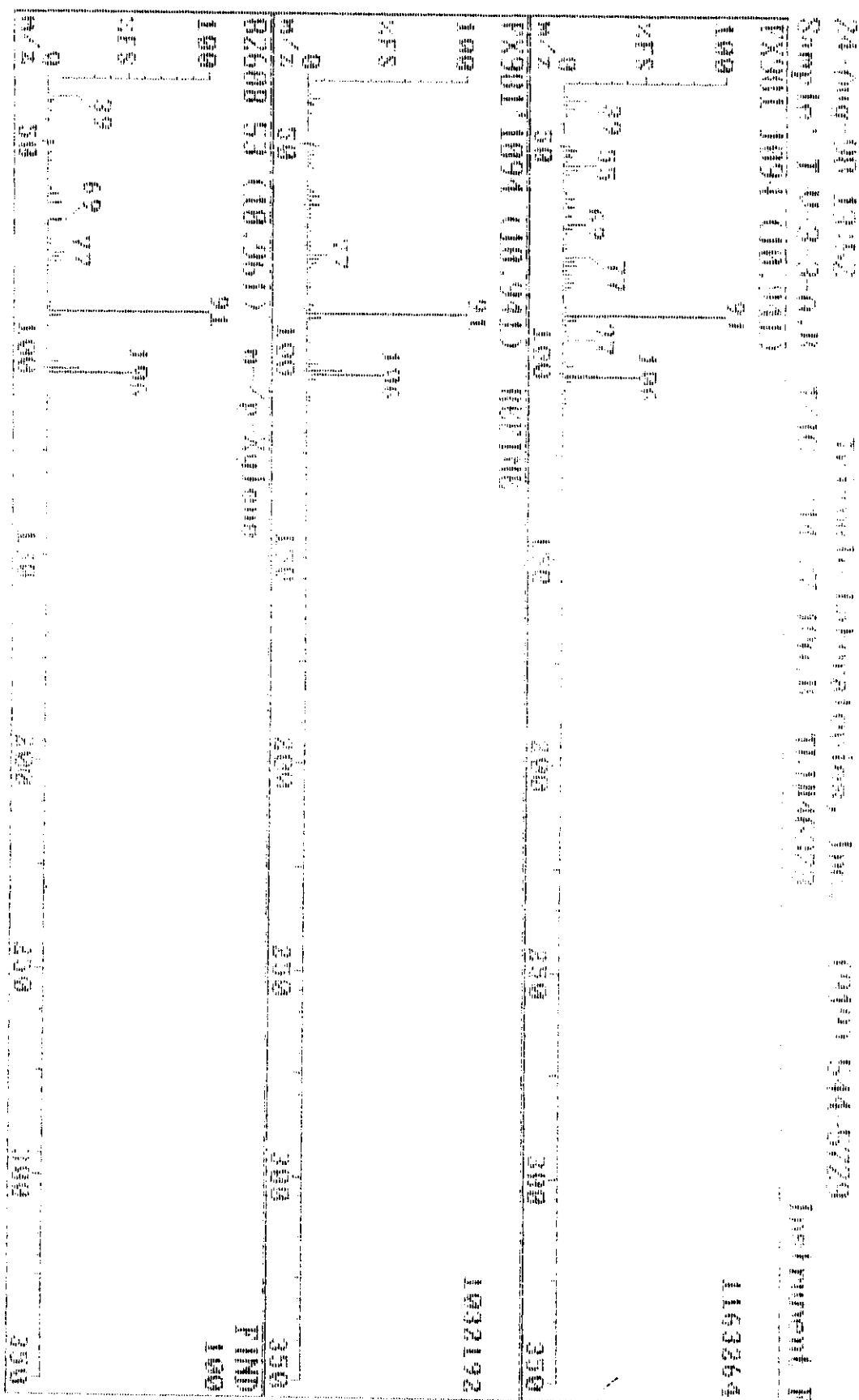
40192



8260 15 (3.550) Methylene chloride

FIND 100





14-Aug-98 13:52

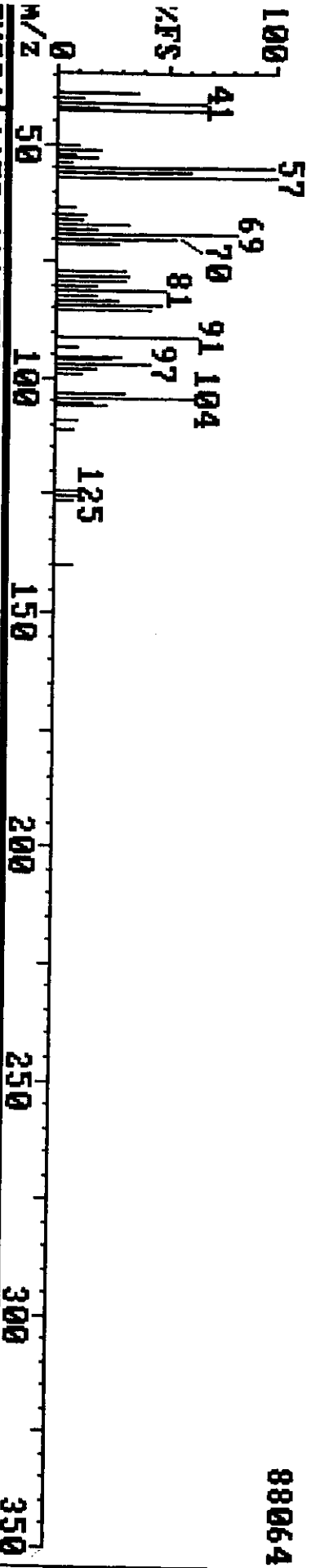
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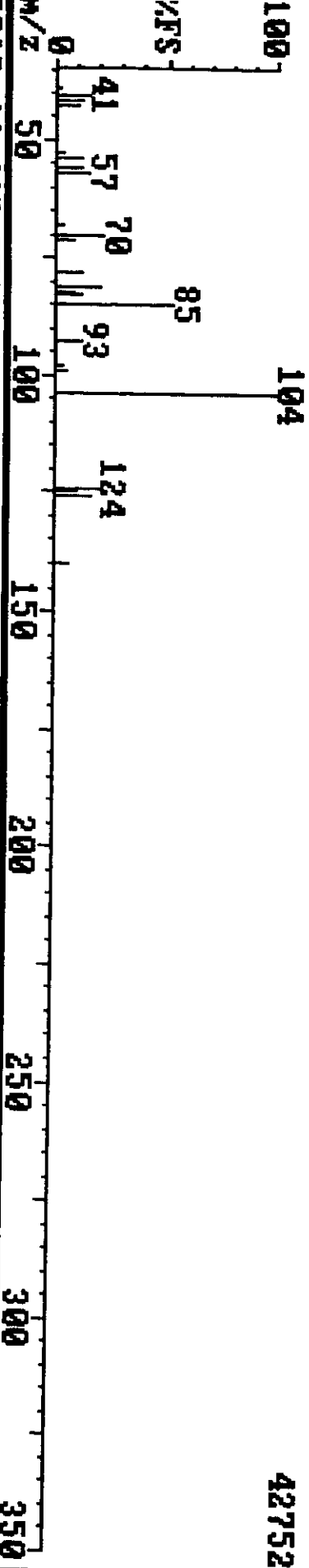
Sample: T-U-3-3-A,B T/TC 214-27-18A,B TL#46323

Instrument F

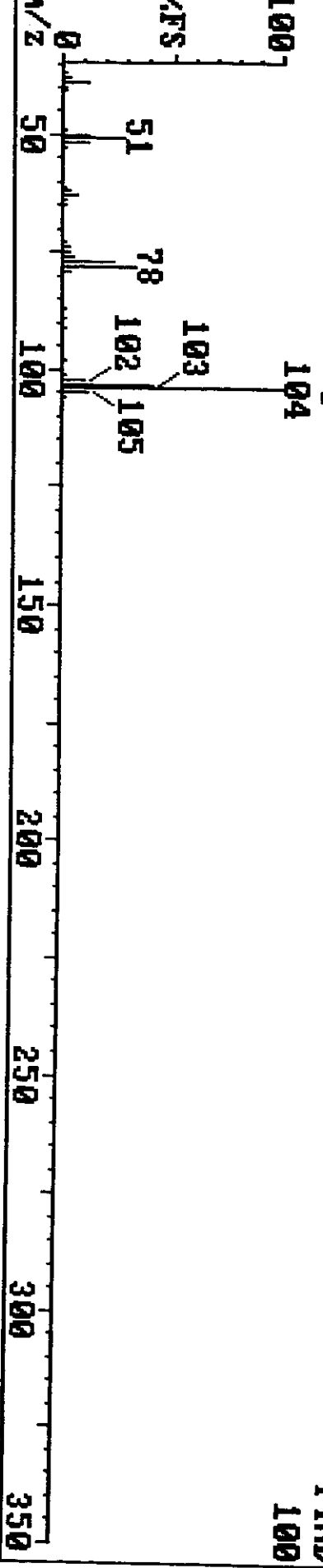
FX981 1173 (11.731)



FX981 1173 (11.731) REFINE



8260 44 (12.371) Styrene



FIND

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

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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
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 ₅		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 ₄		IS 4	15.07		
Cumene		U		0.001	0.05
1,1,1,2-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.

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402

Savar v3.7

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

Response File: ICALH809

Date Analyzed : 08/09/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.262	4.91	1	105
Toluene-d ₈	0.282	7.60	2	113
4-Bromofluorobenzene	0.384	12.24	2	154

Reviewed by

PAB

Date

8/10/98

100 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

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Printed: 16:11 08/10/1998

200

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: ICAH809

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 QAS 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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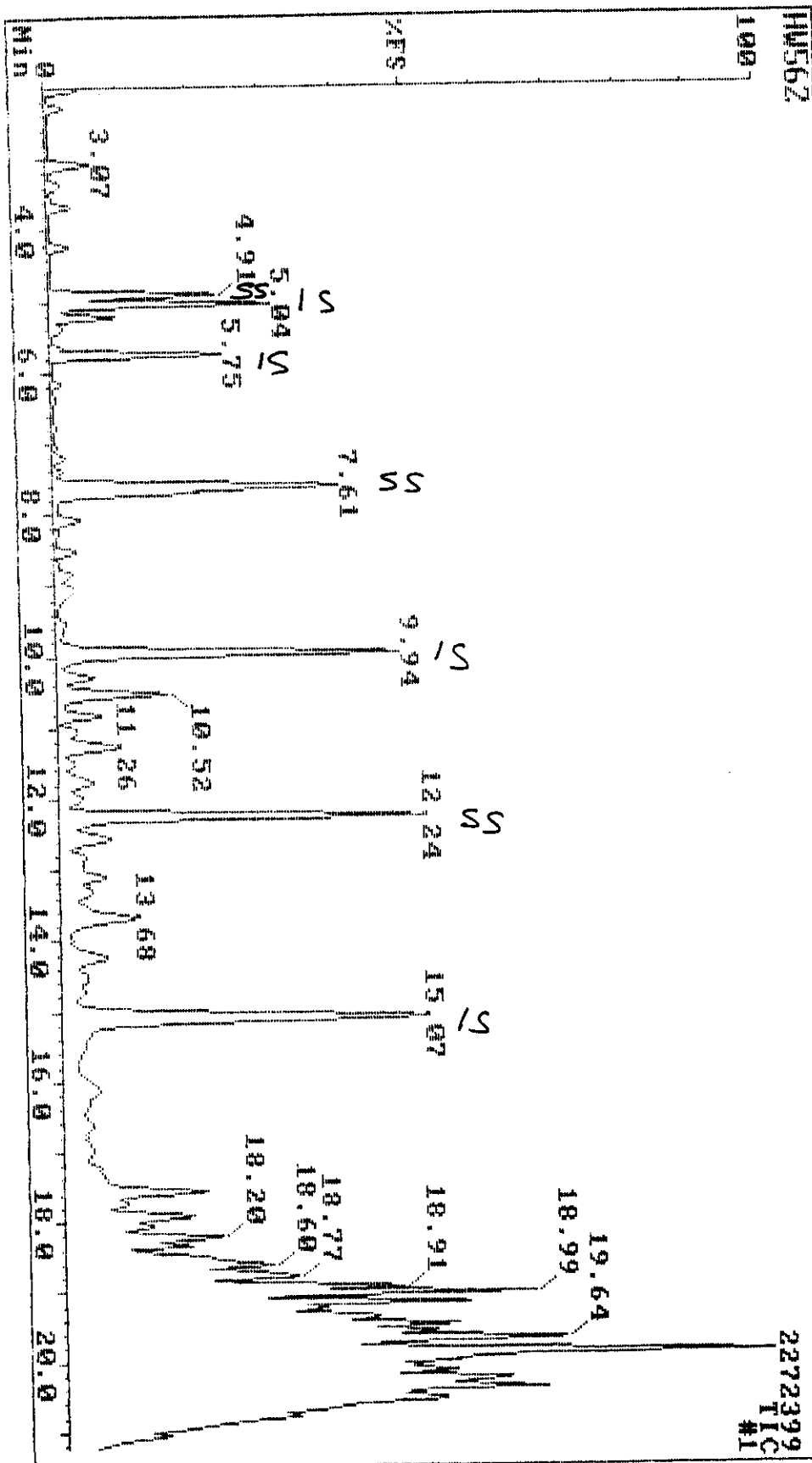
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Savar v3.7

Printed: 16:48 08/10/1998

201

08-09-98 18:37 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-V-4-1-A T 214-27-20A TL#46323 Instrument H



Data Review: *Gar*
 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	34 Methylene chloride
20	9	1	16	5	368	bc	3.35	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	50	2	73	1	38864	bv	7.61	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	34	15	50	-11	52172	vv	8.86	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: GAB

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

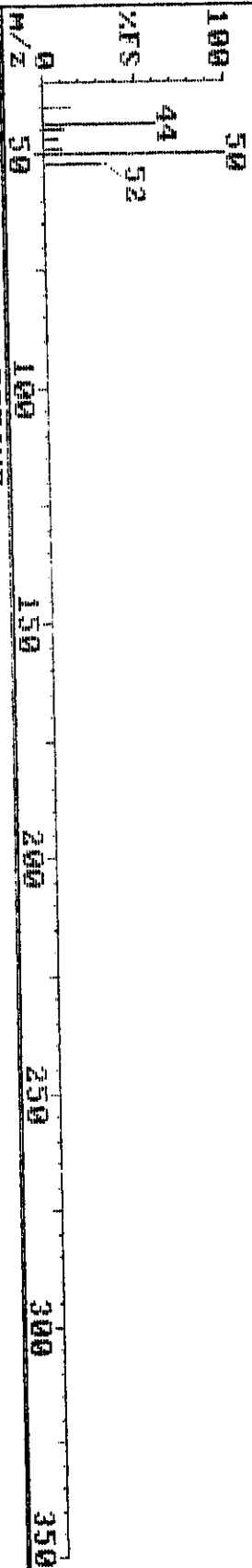
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM	Name
1	100	84	99	-1	1824832	bb	5.03	168	Pentafluorobenzene
2	100	97	98	0	1672116	bv	5.75	114	1,4-Difluorobenzene
3	100	94	95	2	3173136	bv	9.94	117	Chlorobenzene-d5
4	100	75	99	5	2324848	bv	15.07	152	1,4-Dichlorobenzene-d4
5	100	94	100	2	1018220	bv	4.91	113	Dibromofluoromethane
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	75	43	77	2	55292	A	1.08	39	1,3-Butadiene
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	62	44	57	2	33192	bb	4.22	42	1,2-Epoxybutane
13	100	84	87	0	137300	bv	5.38	57	Iso-Octane
14	49	33	55	15	48472	bb	6.17	55	Ethyl acrylate

Data Review: *PaB*
Date: 8/10/98

08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-A T 214-27-204 TL1#46323 Instrument H

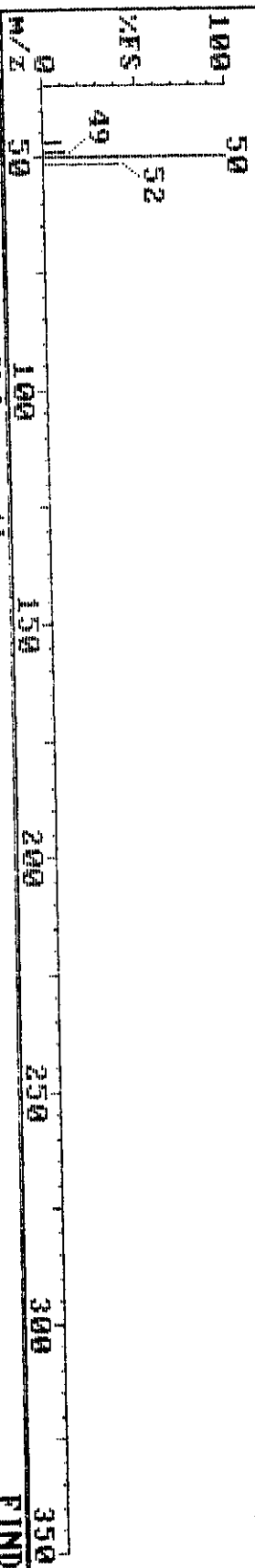
HM562 97 (0.970)

4864



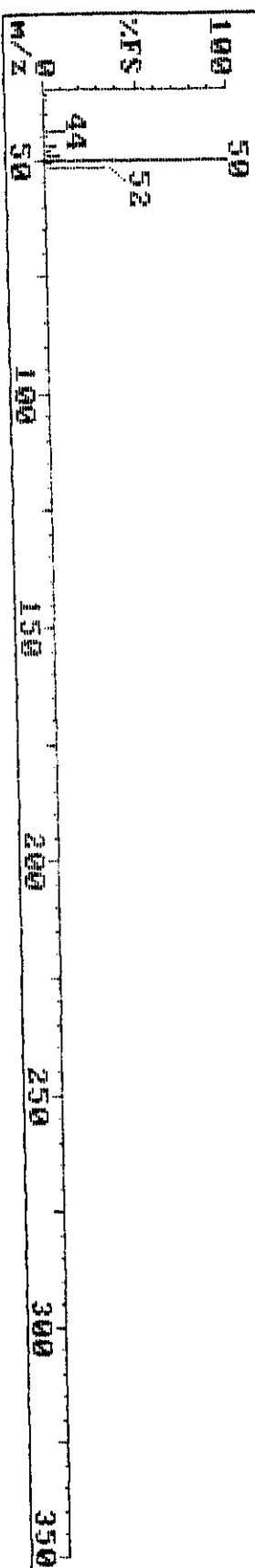
HM562 97 (0.971) REFINE

4288

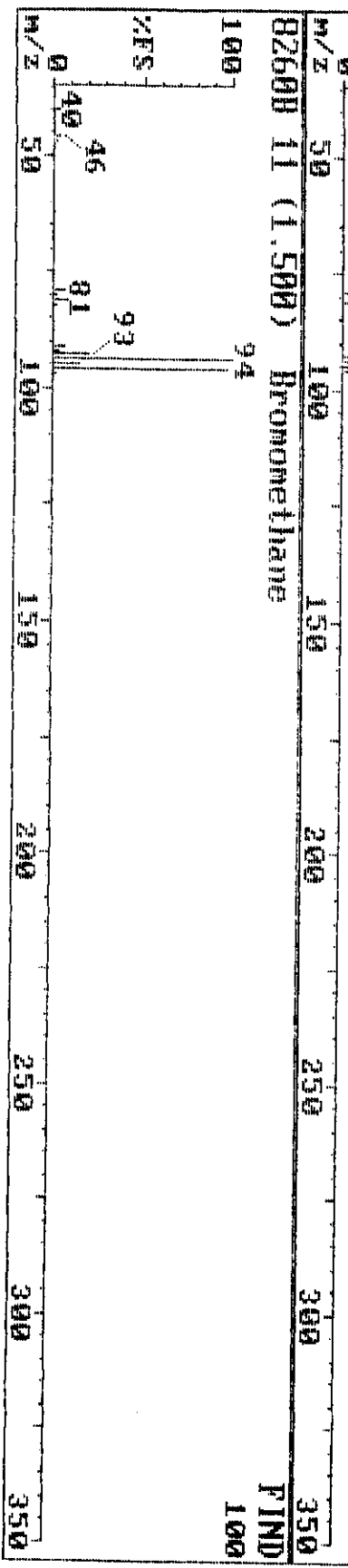
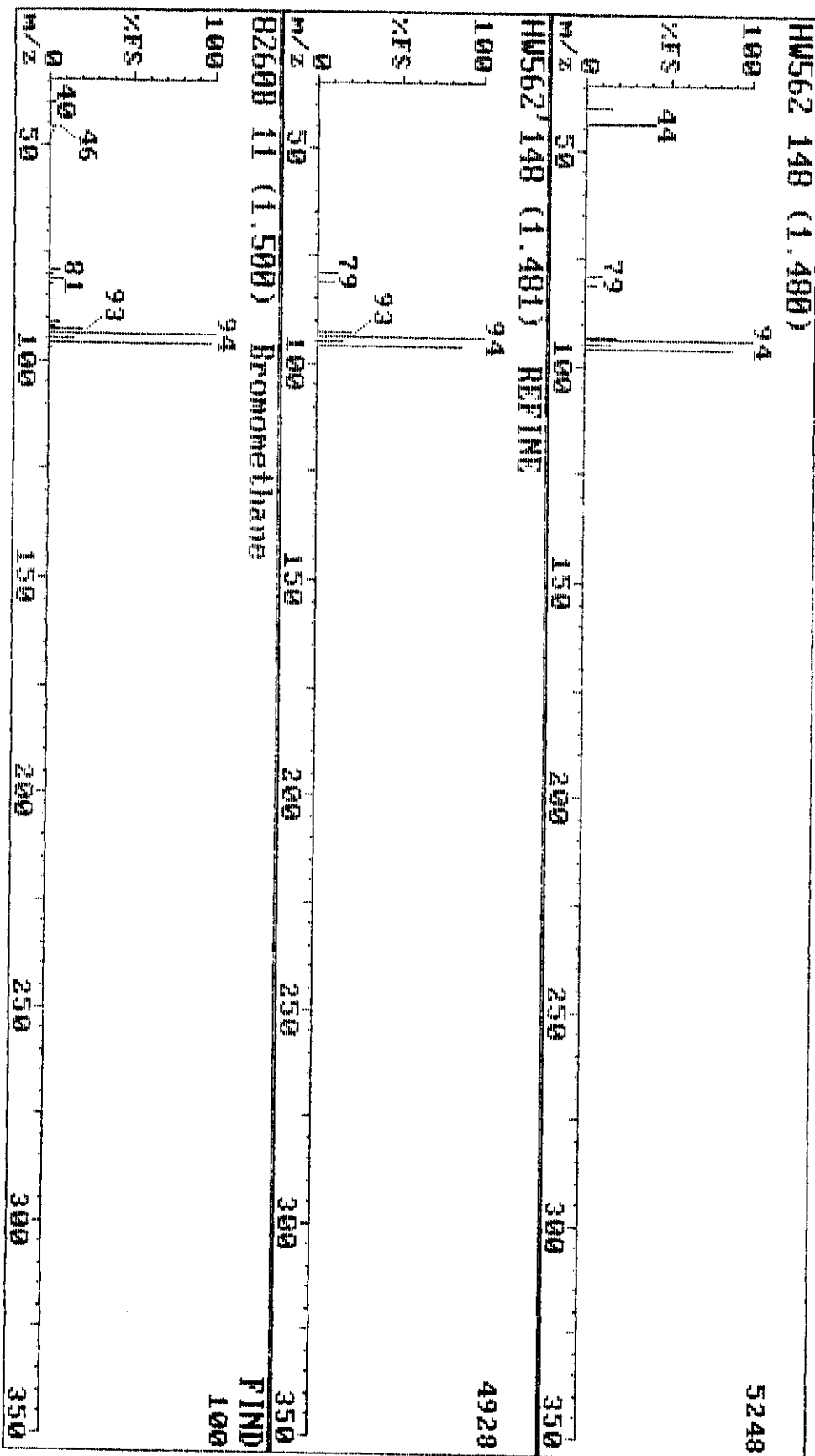


02608 9 (0.990) Chloromethane

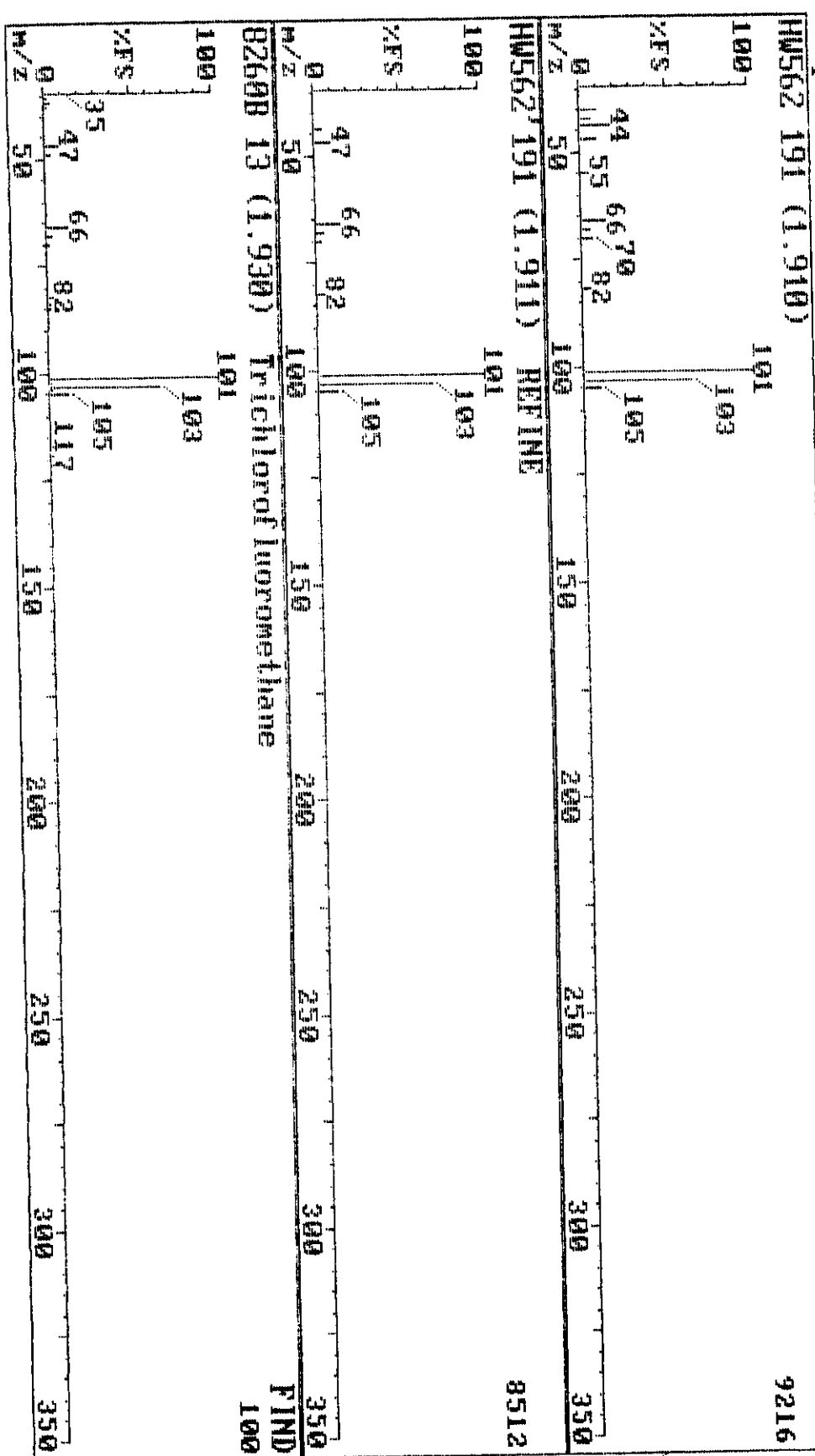
FIND 100



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

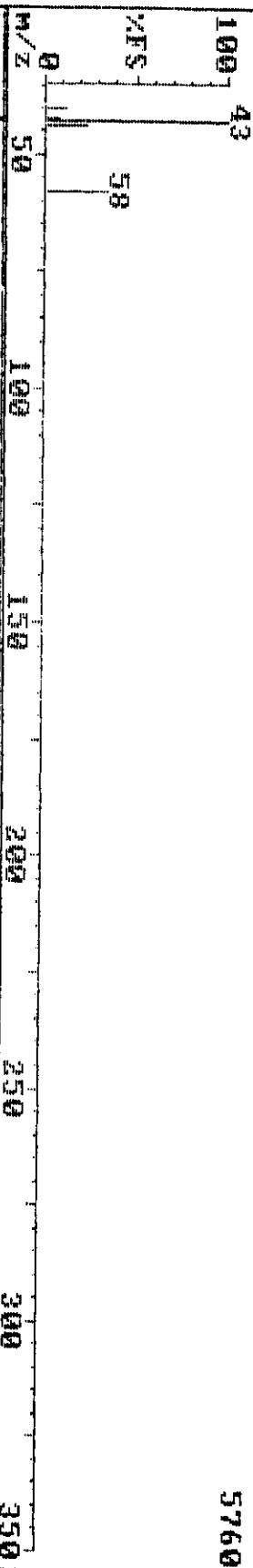


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-1-A T 214-27-28A TL1446323 Instrument H

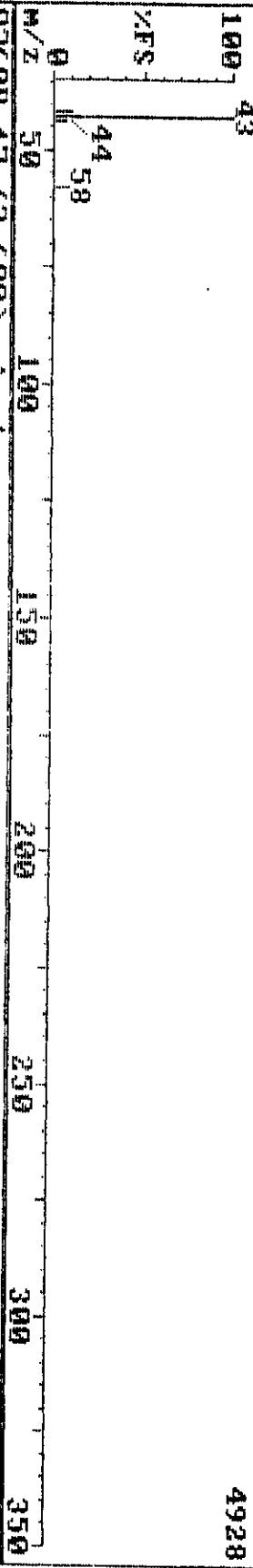


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-V-4-1-A T 214-27-280 TL1#46323 Instrument H

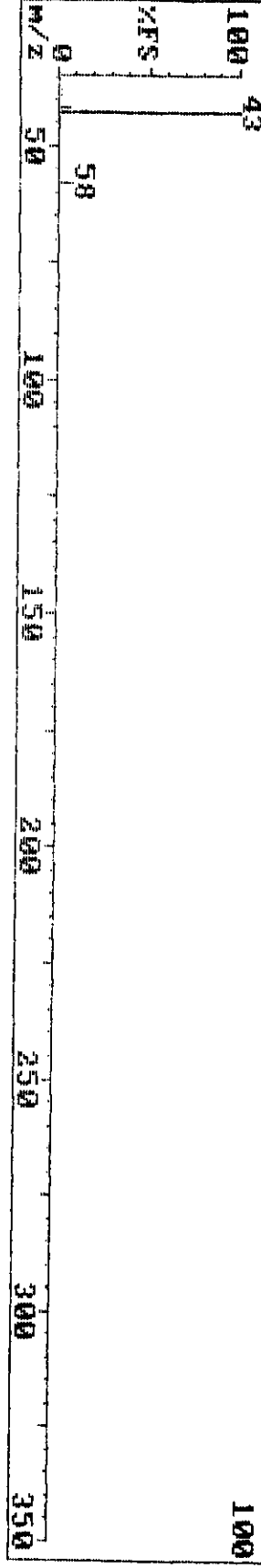
HM562 274 (2.740)



HM562 274 (2.741) REFINE

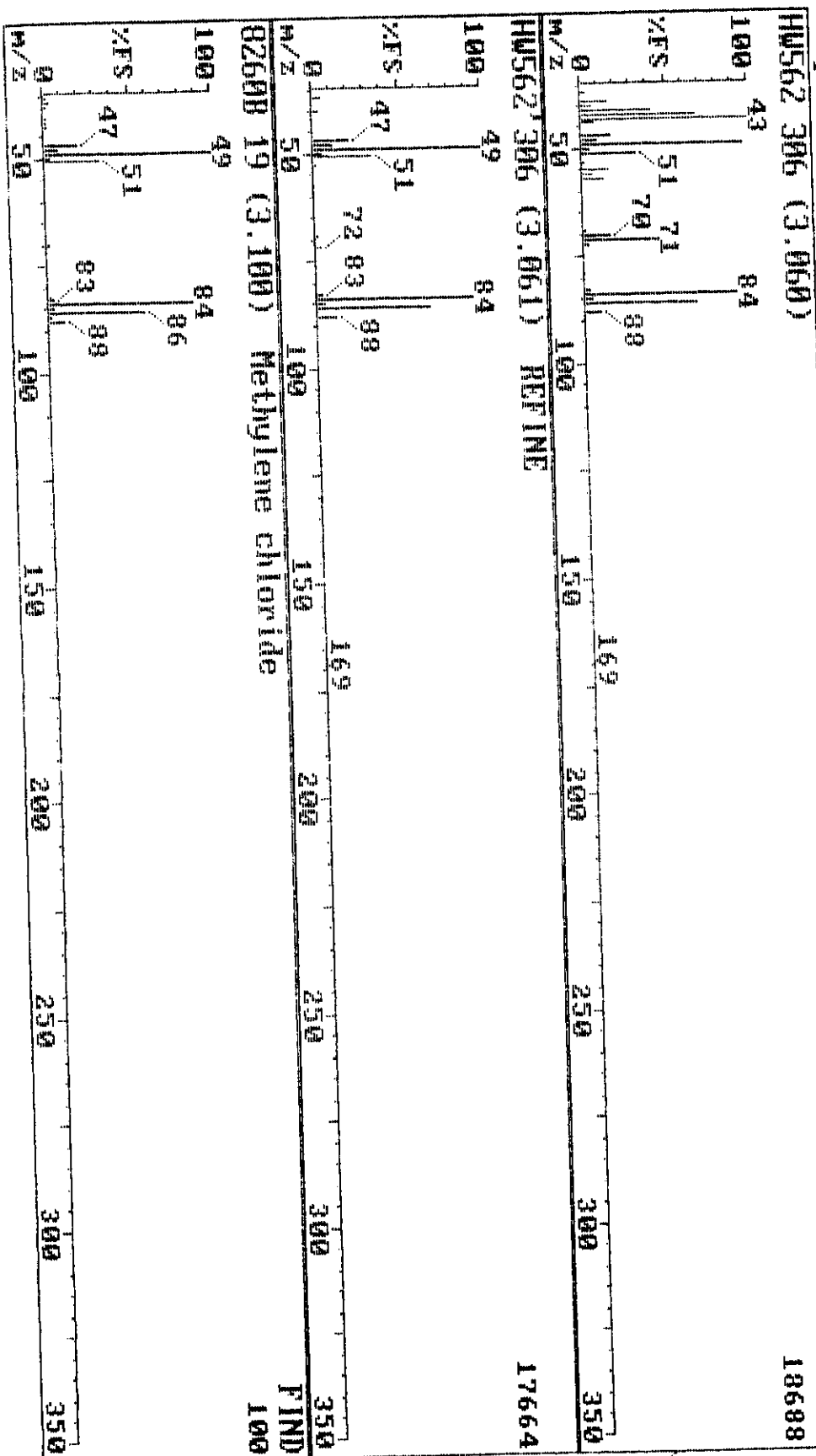


82608 17 (2.690) Acetone



FIND 100

08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-A T 214-27-200 TL1W46323 Instrument H



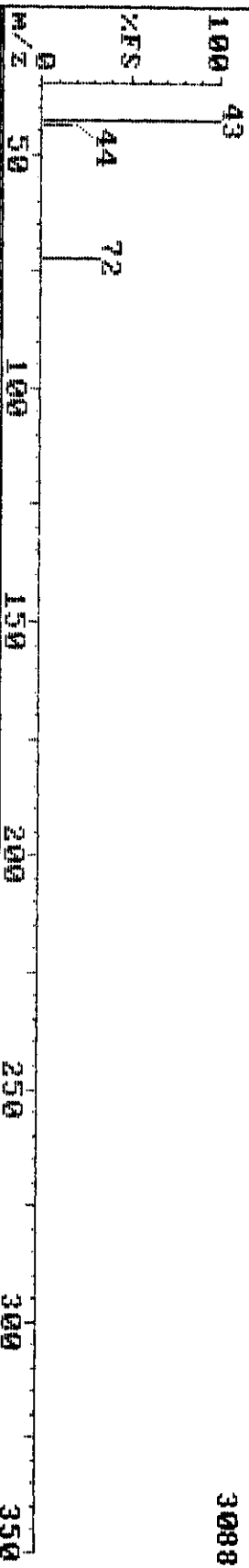
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Triangle Laboratories, Inc. (919) 544-5729

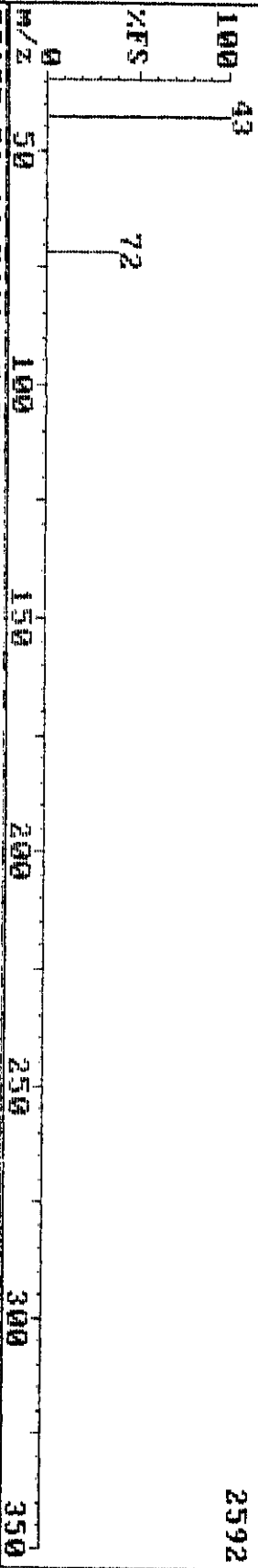
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Instrument H

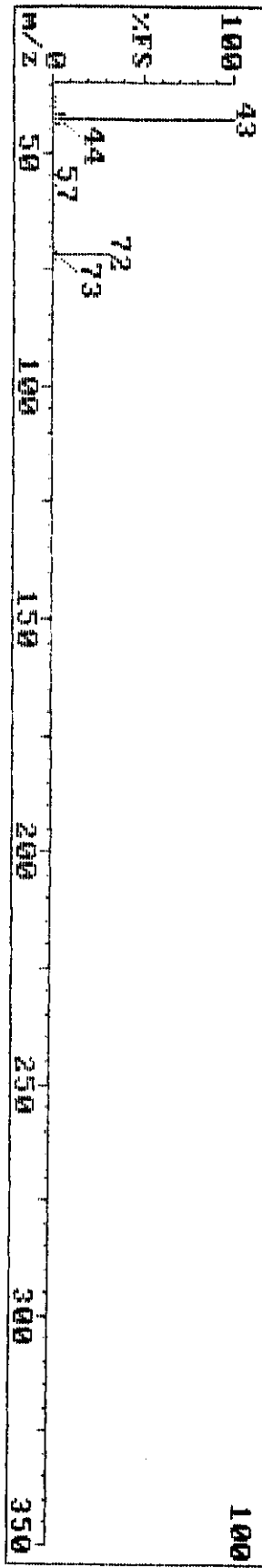
HM562 451 (4.510)



HM562 451 (4.511) REFINE



B260B 26 (4.541) 2-Butanone

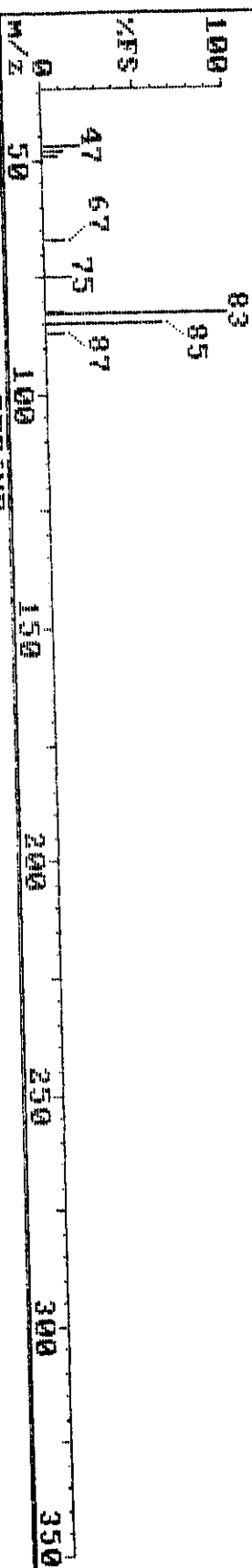


FIND 100

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

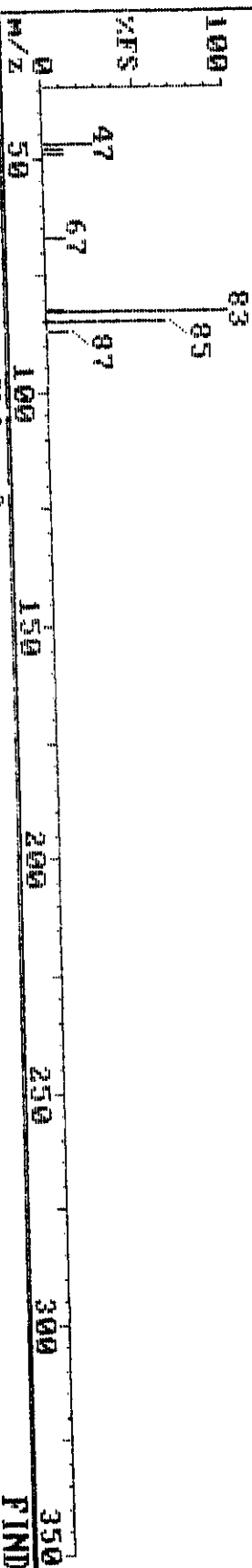
HM562 475 (4.751)

4992



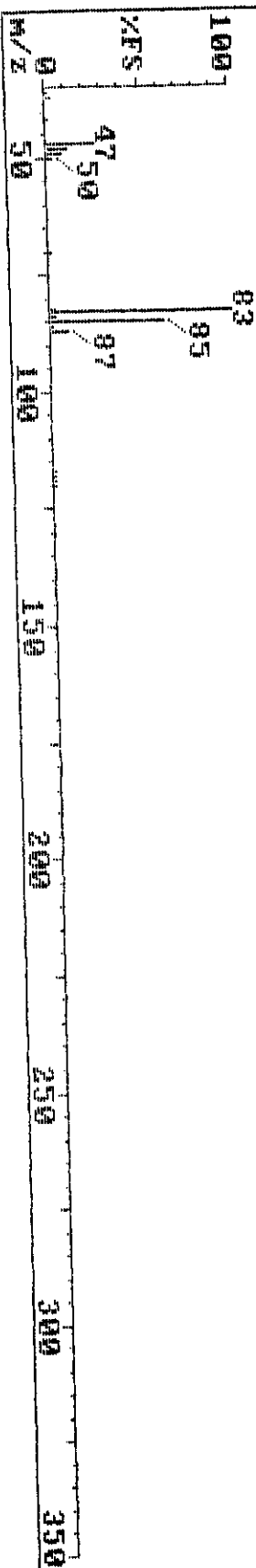
HM562 475 (4.751) REFINE

4800



8260B 27 (4.811) Chloroform

FIND 100



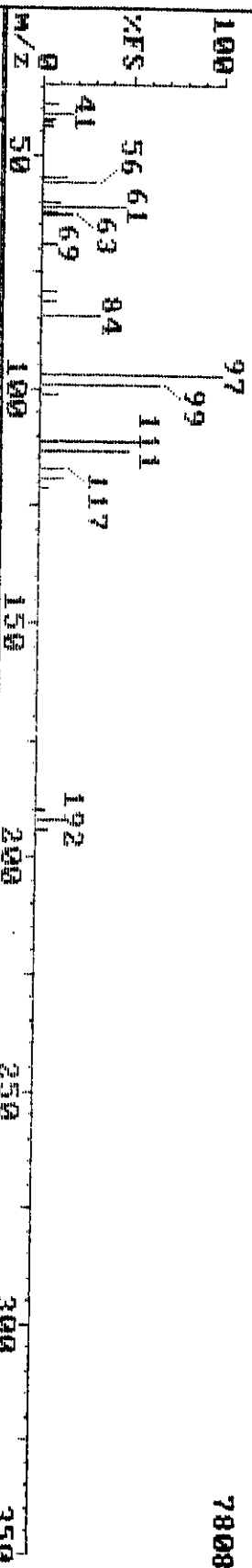
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Triangle Laboratories, Inc. (919) 544-5729

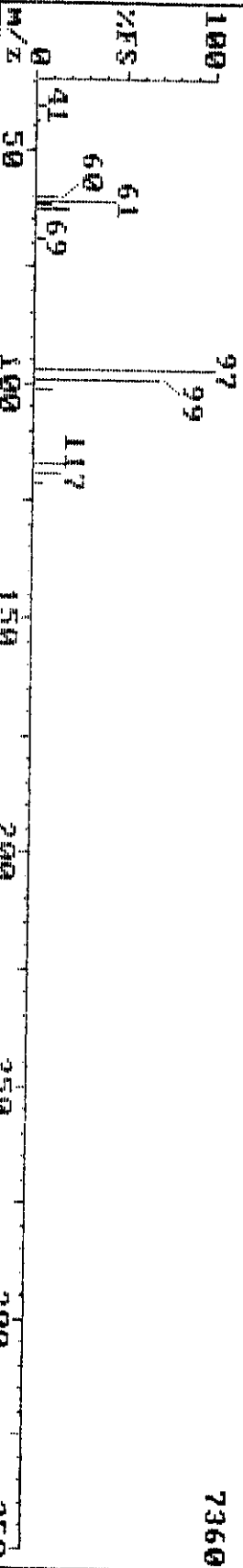
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Instrument H

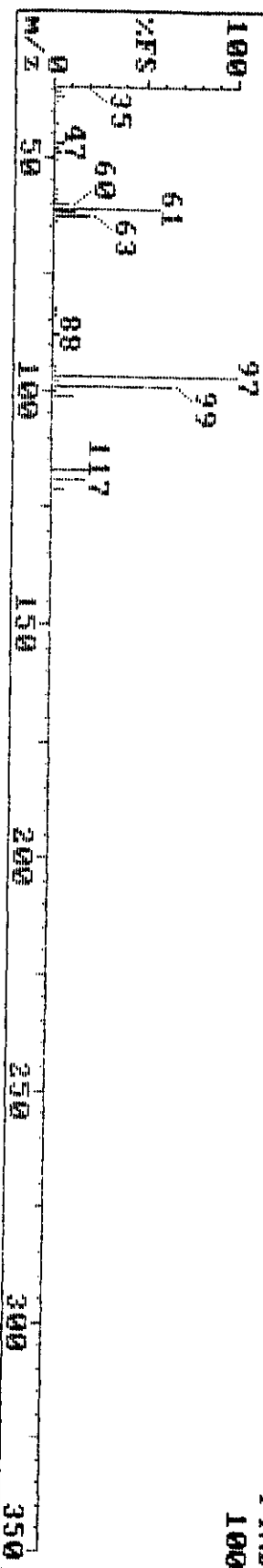
HM562 484 (4.841)



HM562 484 (4.841) REFINE



B260B 29 (4.911) 1,1,1-Trichloroethane



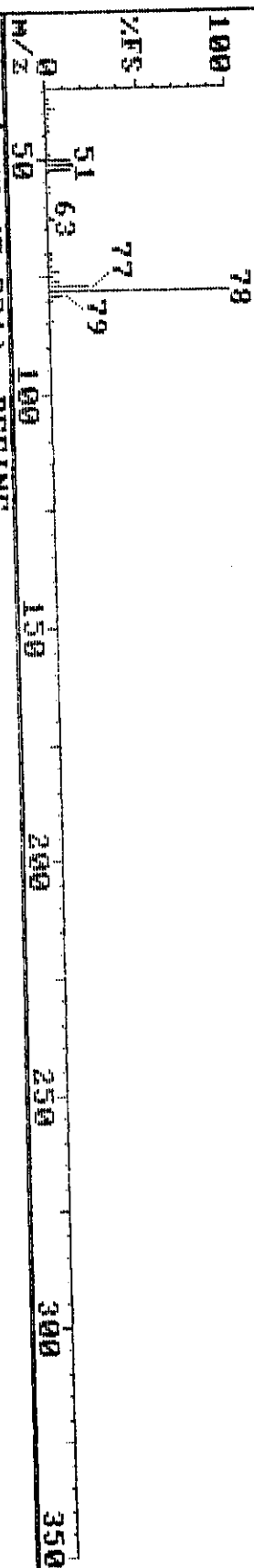
FIND

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Sample: T-U-4-1-A T 214-27-20A TL146323 Instrument H

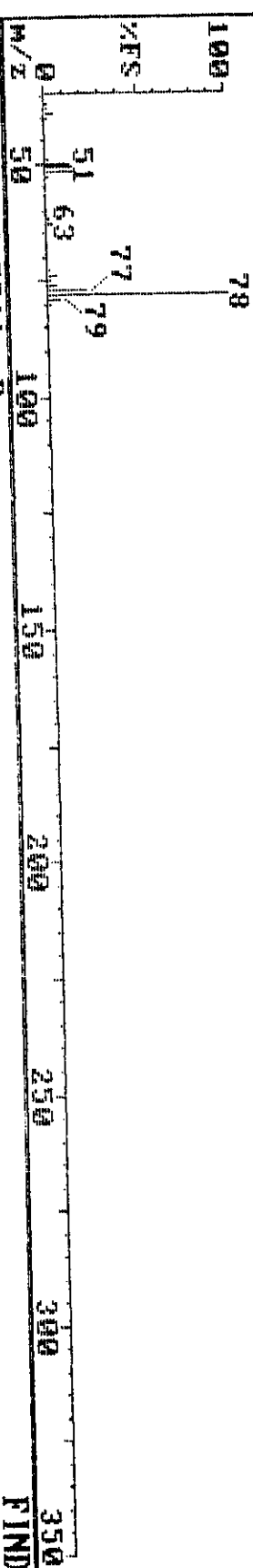
HW562 522 (5.221)

104448



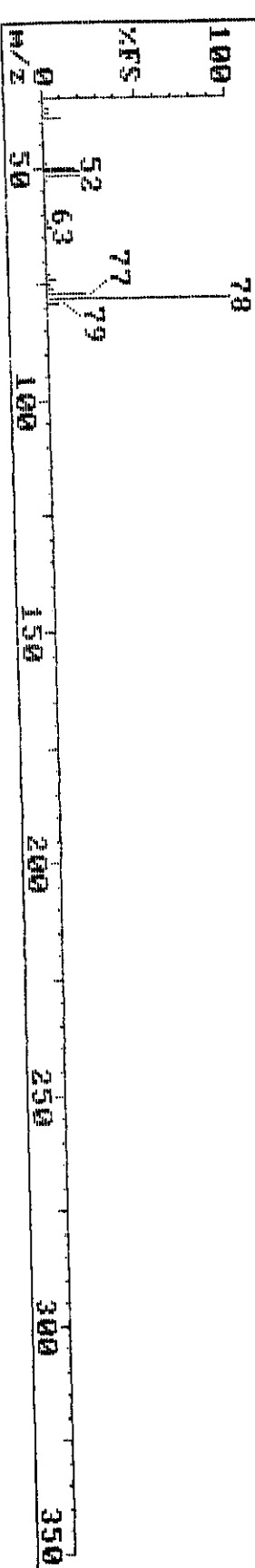
HW562 522 (5.221) REFINE

99328



82608 32 (5.291) Benzene

FIND
100



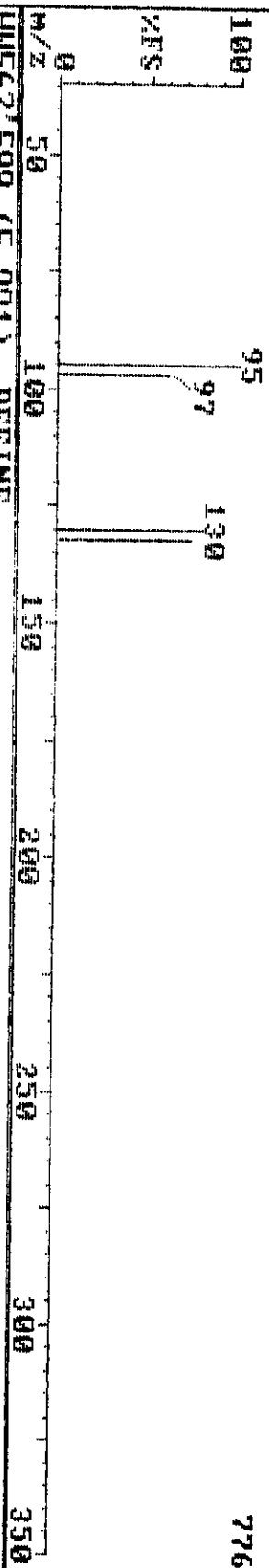
08-09-98 10:37

Triangle Laboratories, Inc. (919) 544-5729

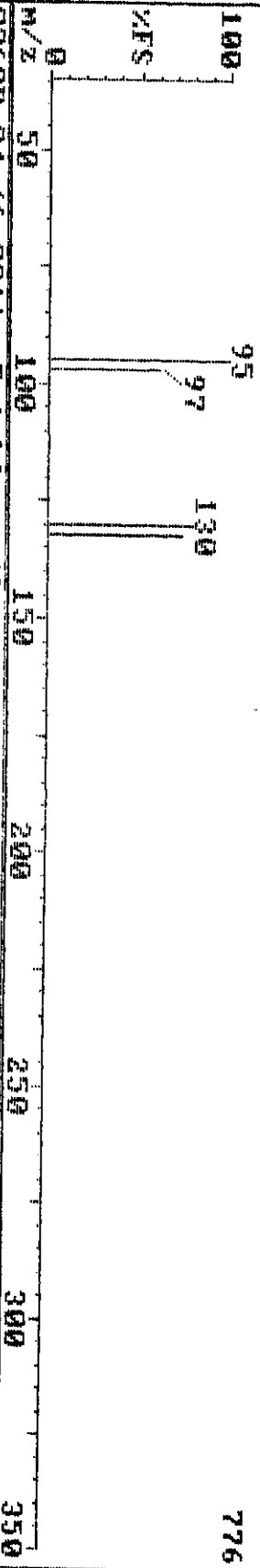
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Instrument H

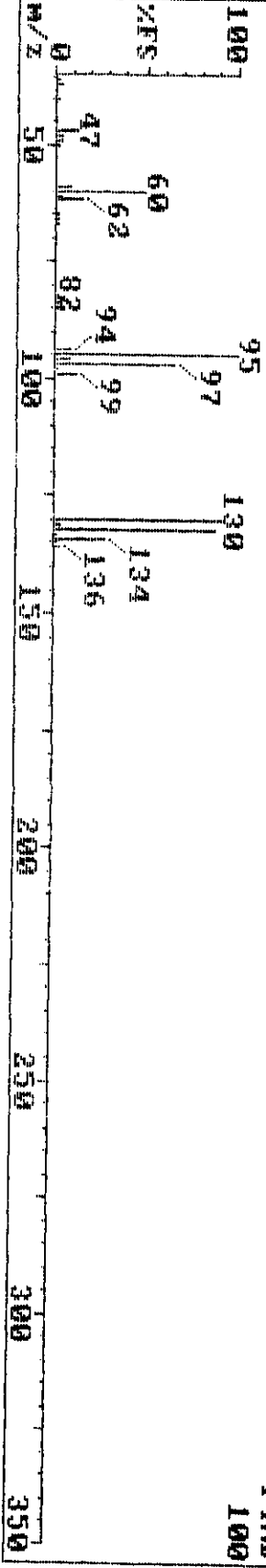
HM562 599 (5.991)



HM562 599 (5.991) REFINE



82608 34 (6.081) Trichloroethene



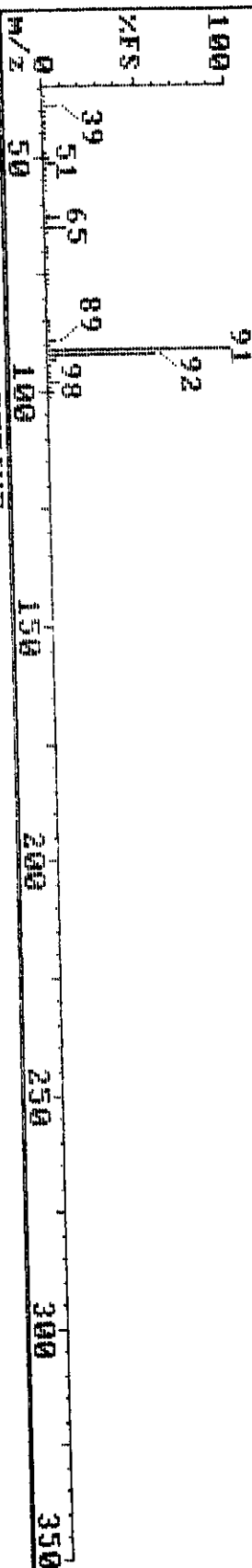
FIND

100

08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
Sample: T-U-4-1-A T 214-27-200 TL1#46323

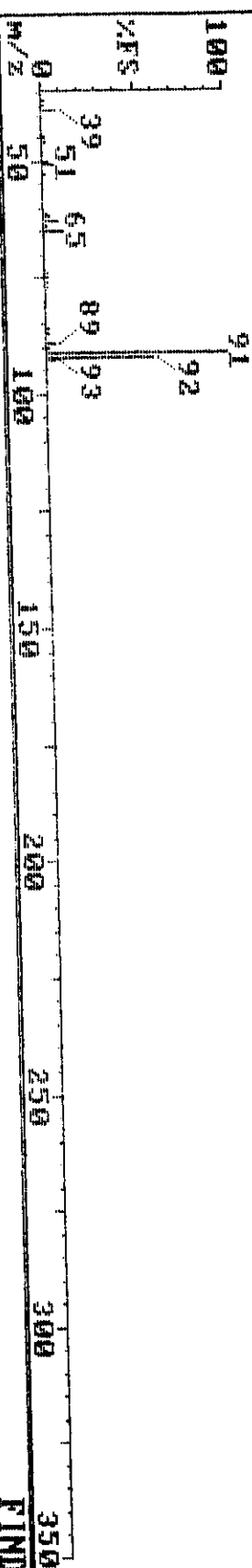
HM562 770 (7.701)

182272



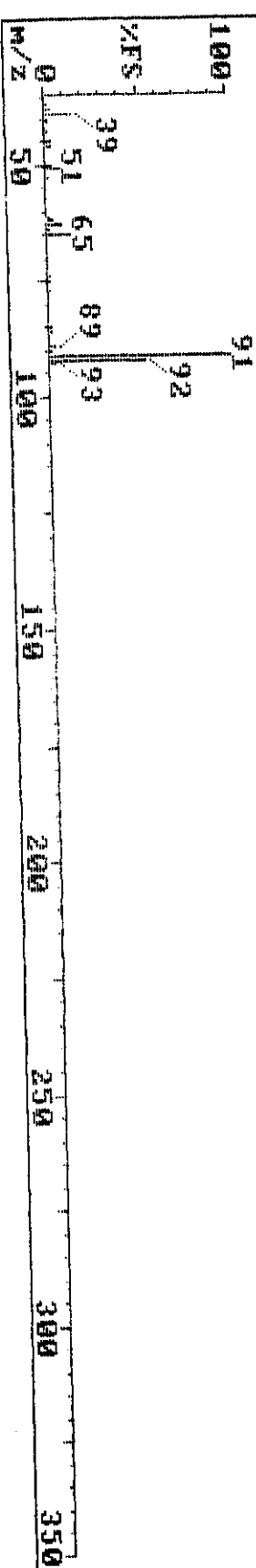
HM562 770 (7.701) REFINE

162816



82608 41 (7.811) Toluene

FIND 100



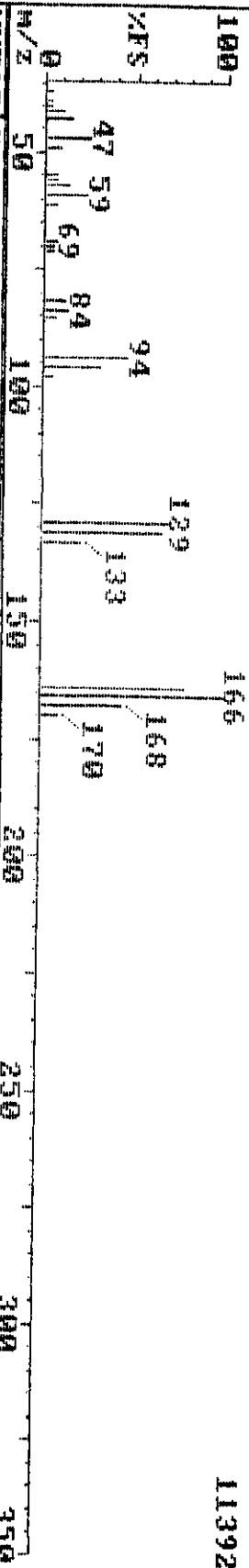
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Triangle Laboratories, Inc. (919) 544-5729

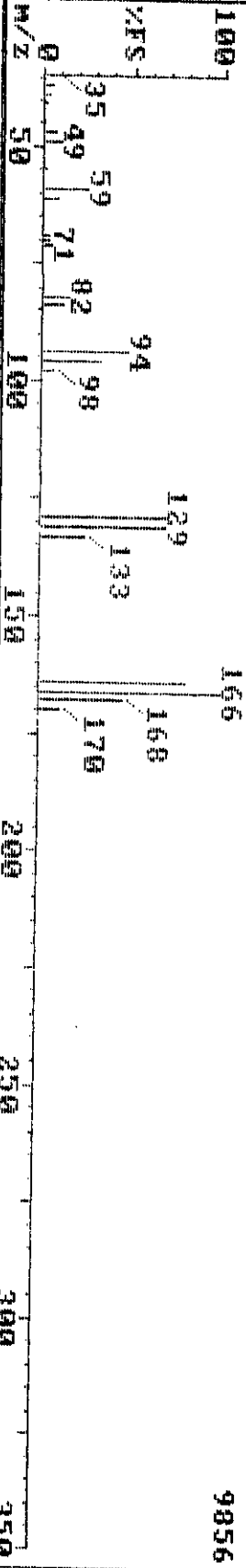
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Instrument H

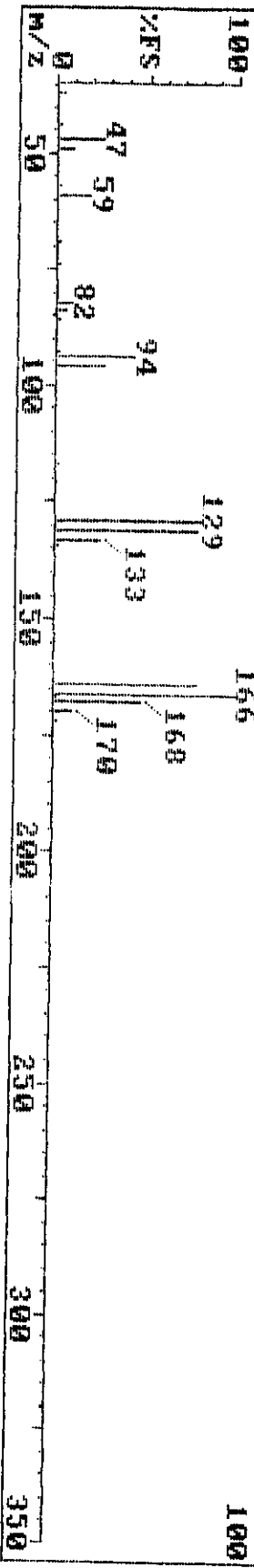
HM562 853 (8.531)



HM562 853 (8.531) REFINE



82608 45 (8.641) Tetrachloroethene

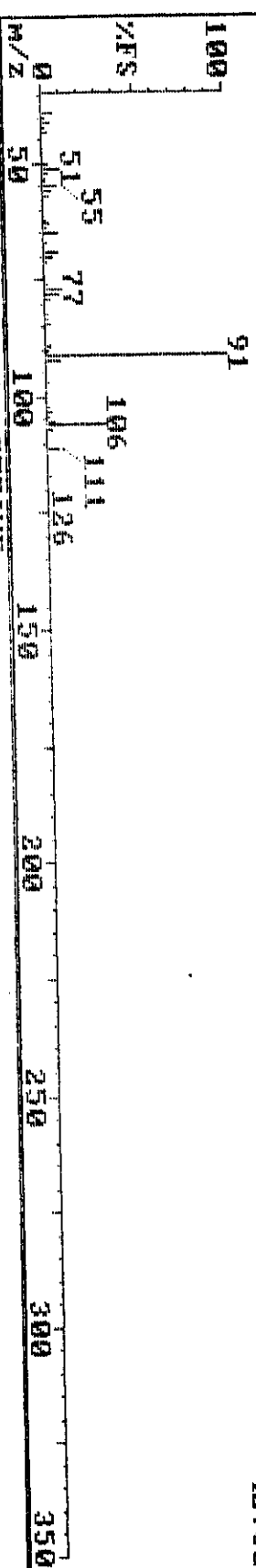


FIND

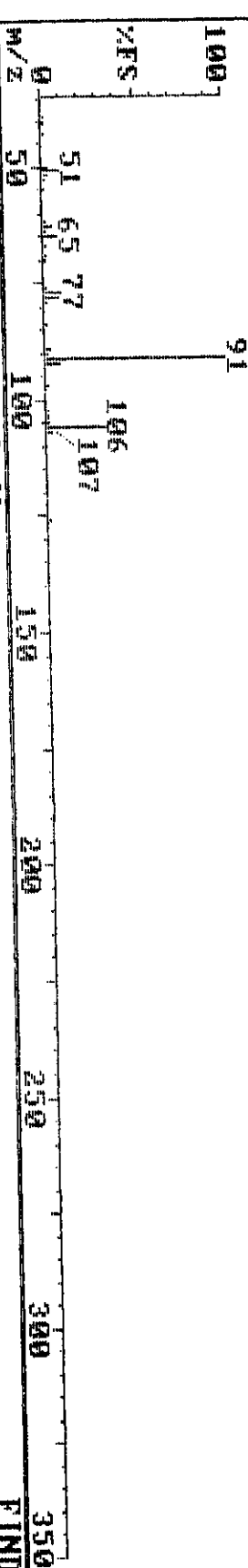
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08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-A T 214-27-200 TL146323 Instrument H

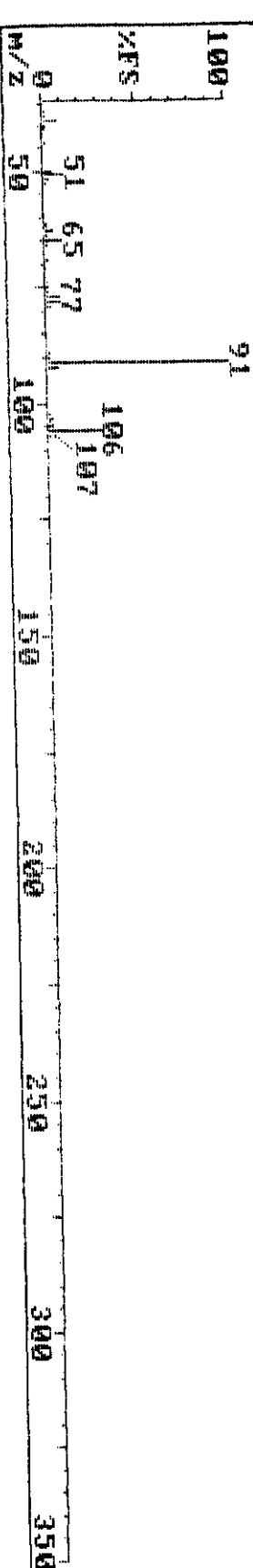
HW562 1028 (10.281) 42752



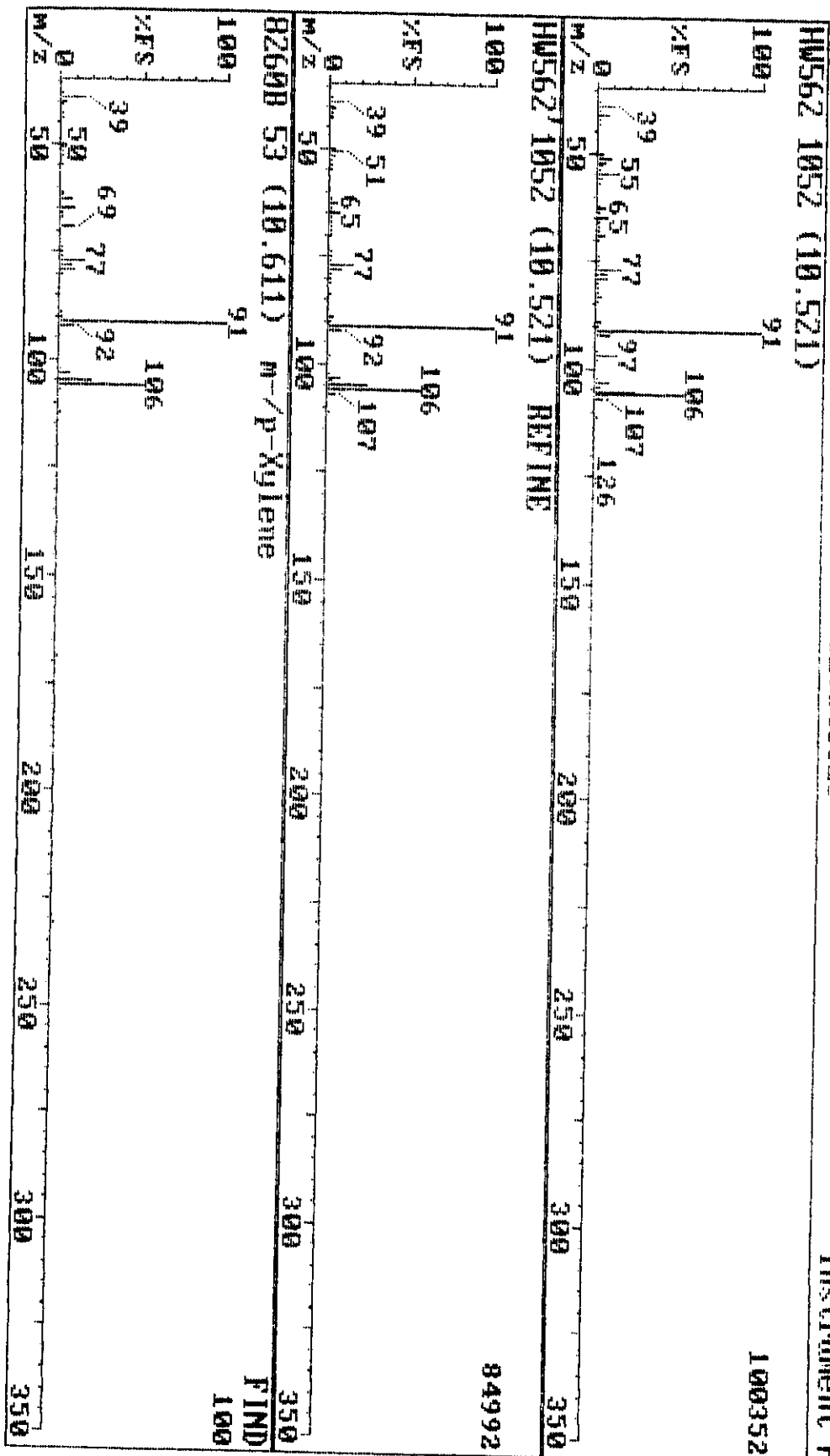
HW562 1028 (10.281) REFINE 36096



02608 52 (10.381) Ethylbenzene 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



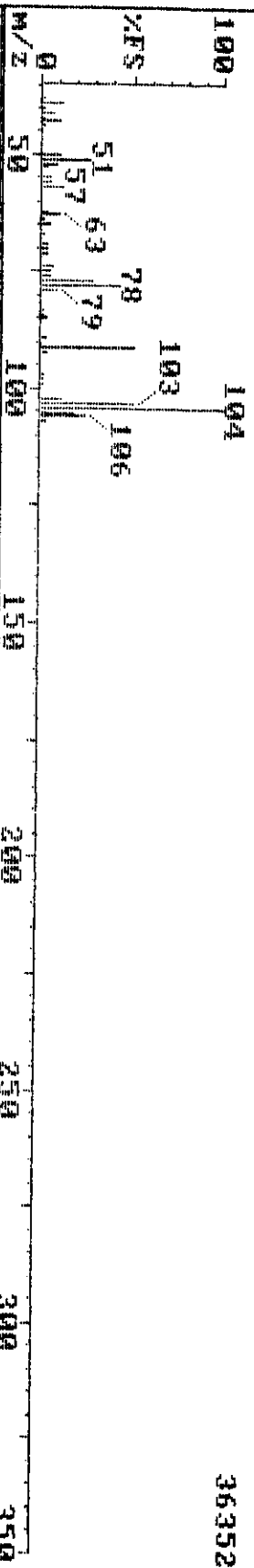
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Triangle Laboratories, Inc. (919) 544-5729

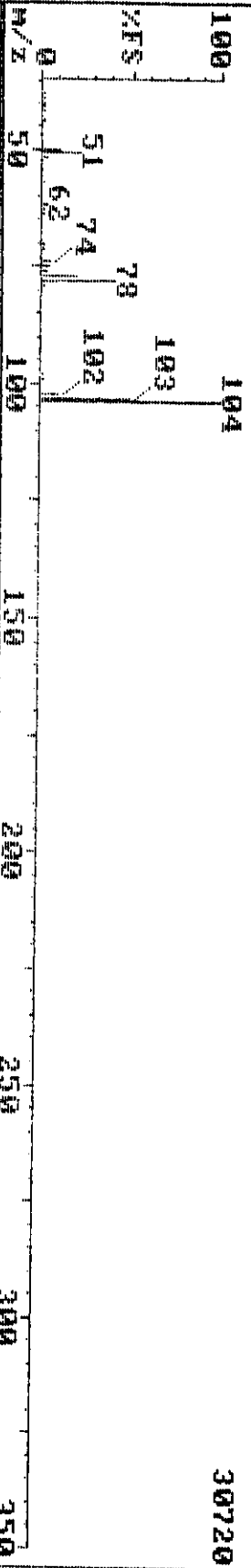
Sample: T-V-4-1-A T 214-27-200 TL1#46323

Instrument H

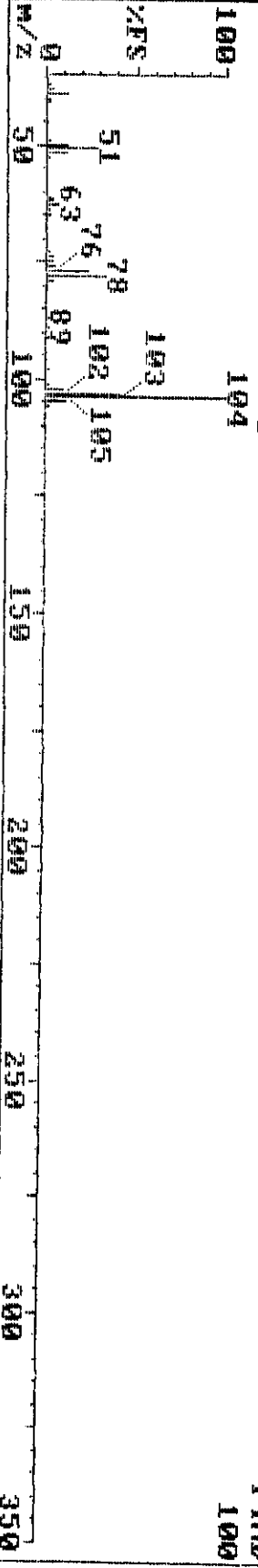
HM562 1128 (11.281)



HM562 1128 (11.281) REFINE



82608 55 (11.381) Styrene



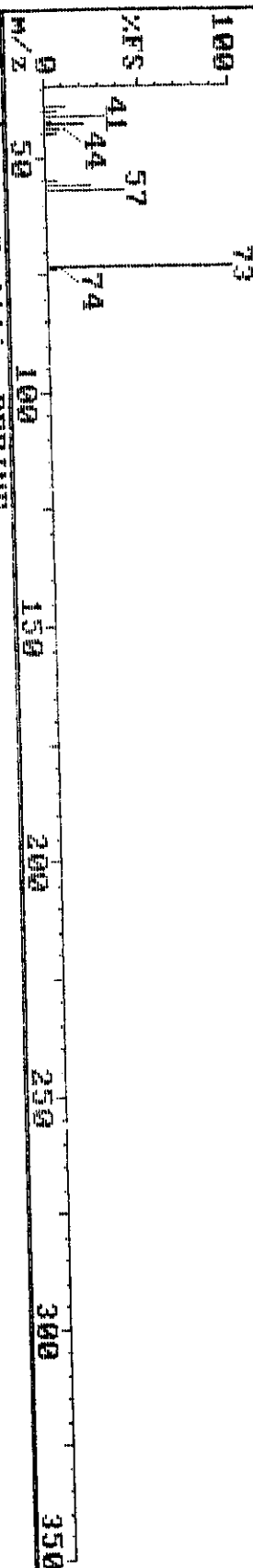
FIND

100

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

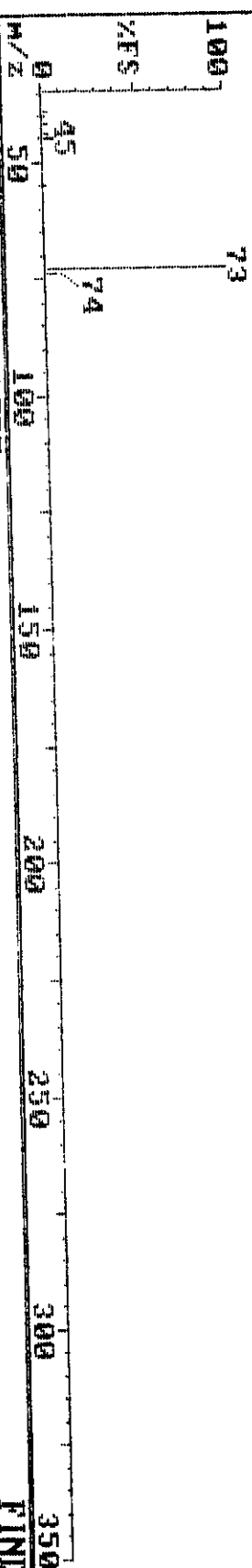
HW562 341 (3.410)

11008



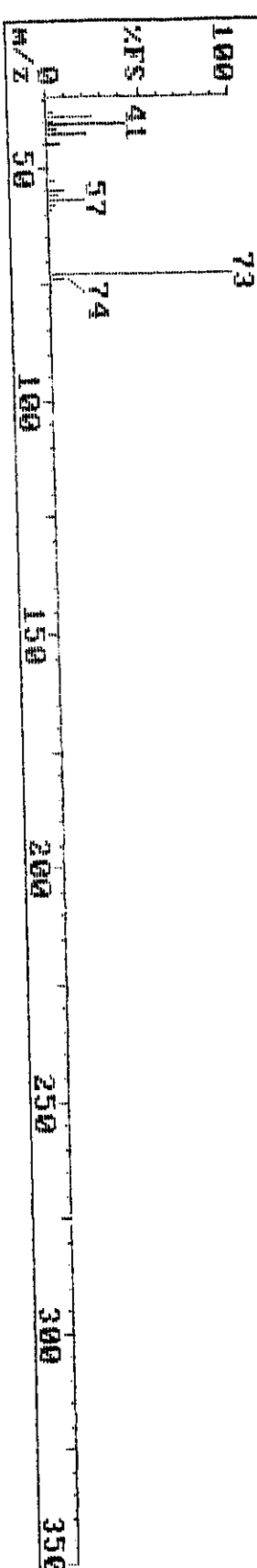
HW562 341 (3.411) REFINE

9088

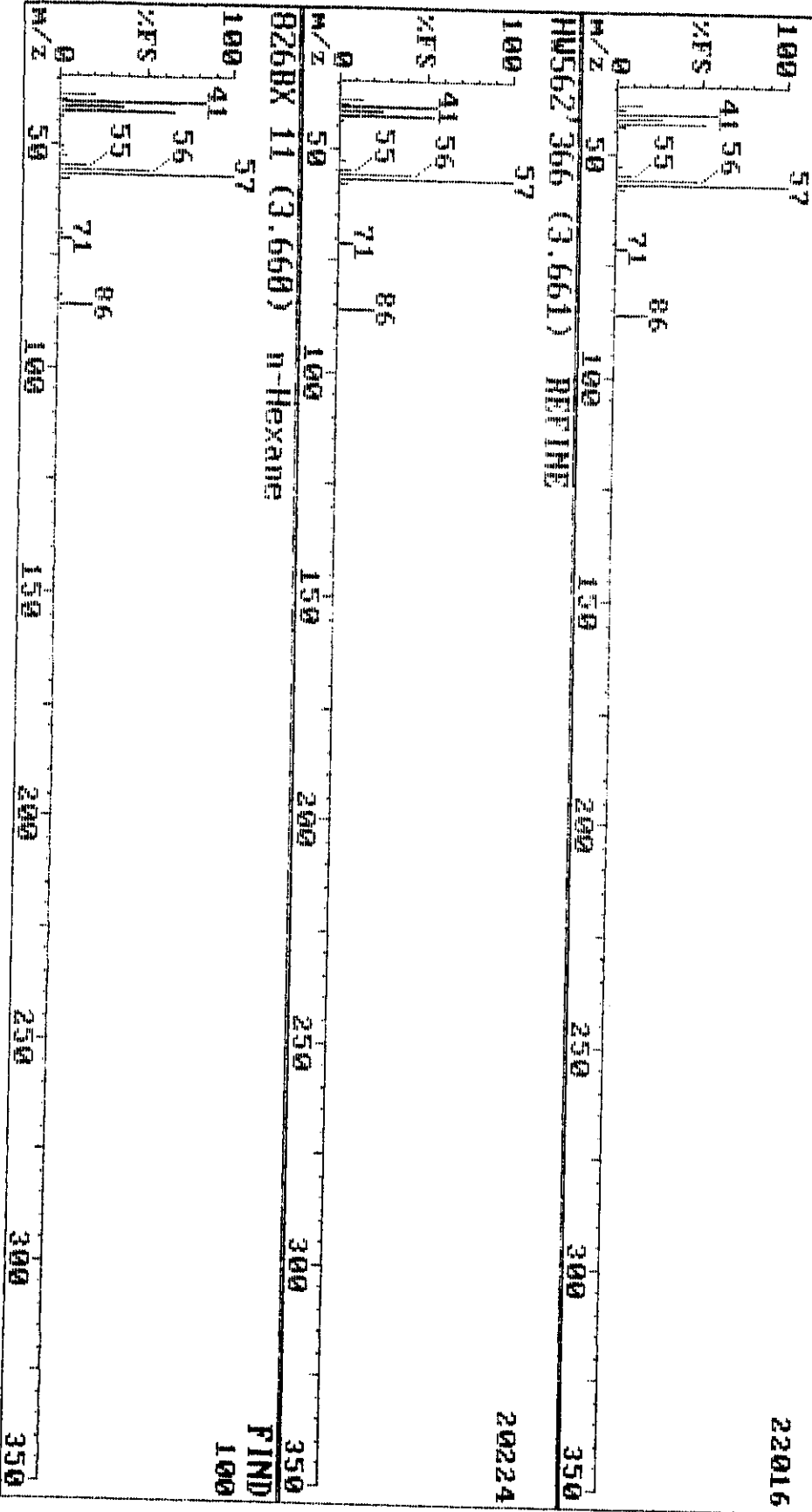


826HX 10 (3.400) MTBE

FIND 100

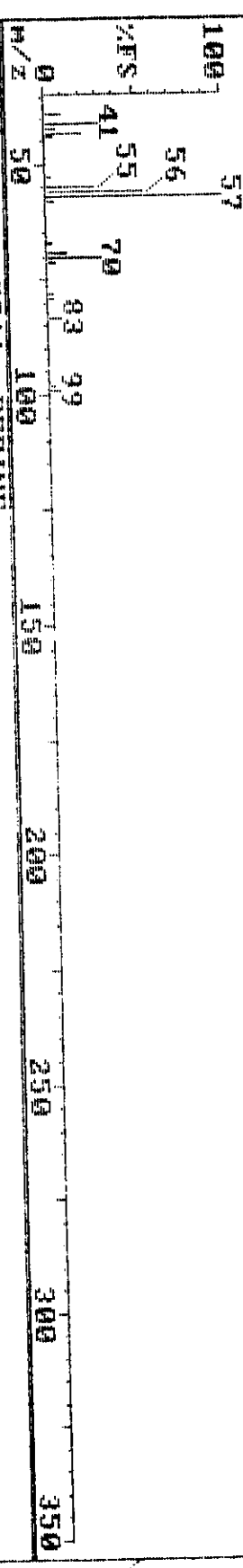


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-1-A T 214-27-200 T11#46323 Instrument H

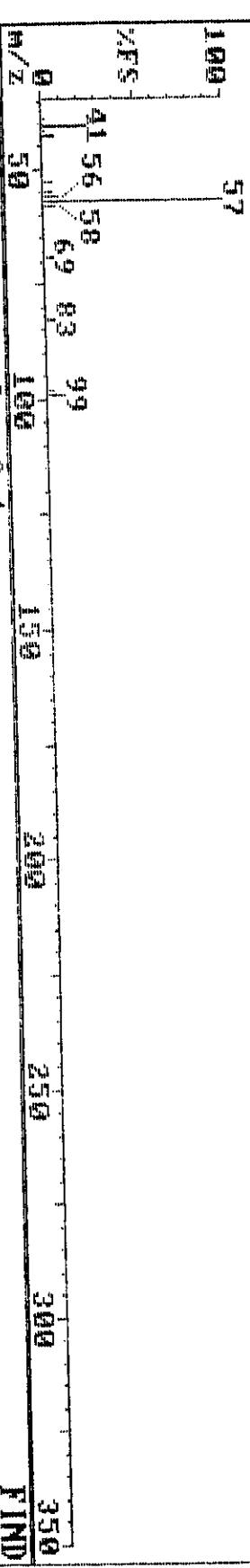


08-09-98 10:37 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
Sample: T-U-4-1-A T 214-27-200 TI#46323

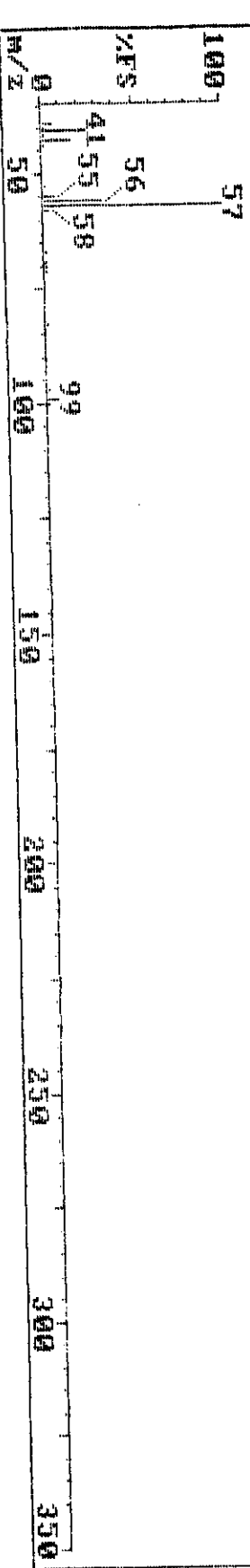
HM562 538 (5.381) 13184



HM562 538 (5.381) REFINE 9984



826BX 13 (5.391) Iso-Octane FIND 100



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: ICAH809

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		
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

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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 ₅		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 ₄		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

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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: ICAH809

Date Analyzed: 08/09/98

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.257	4.91	1	103
Toluene-d ₈	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

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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: 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 *GarB* Date 8/10/98

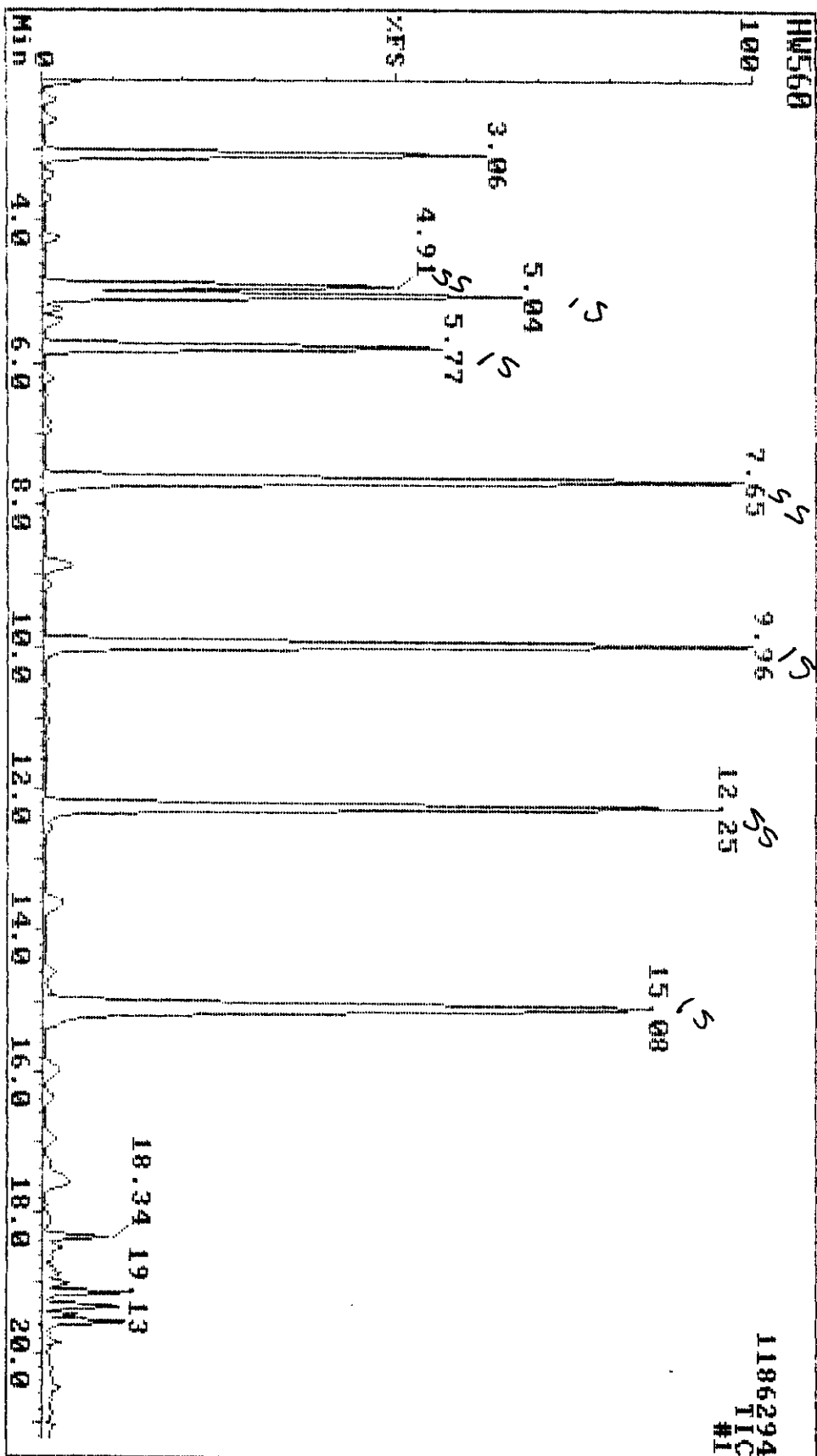
NA- Not Applicable; Det. Limit: Detection Limit; Quan. Limit: Quantitation Limit

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

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 Printed: 16:39 08/10/1998

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 Allyl 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	57	49	49	3	3284	bb	4.53	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	45	4	70	1	20568	A	7.64	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	23	10	40	11	11248	A	9.13	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

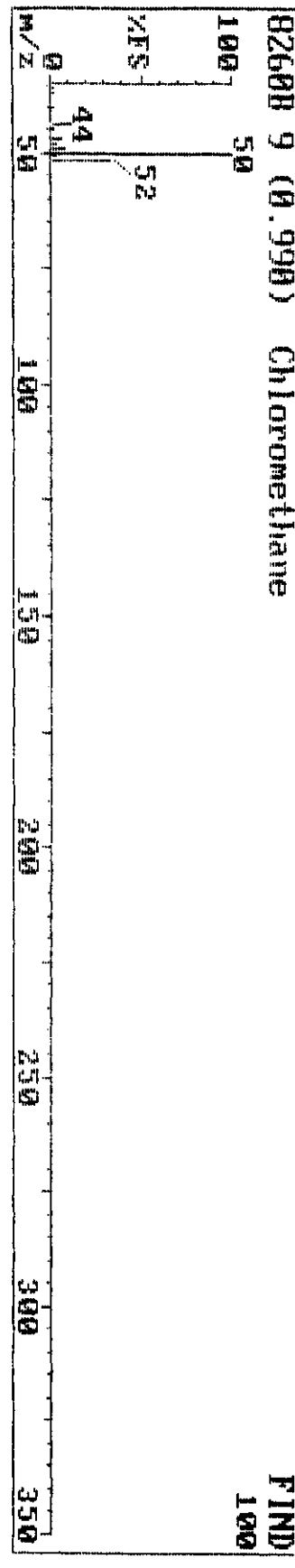
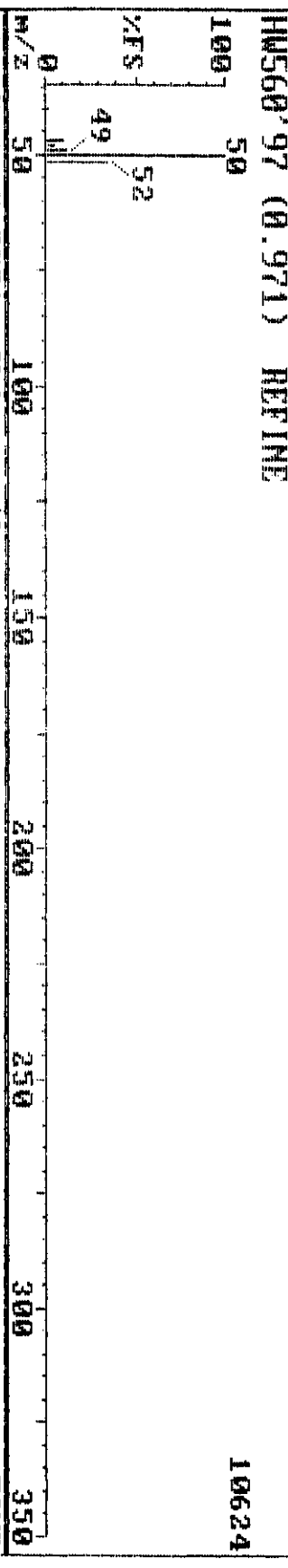
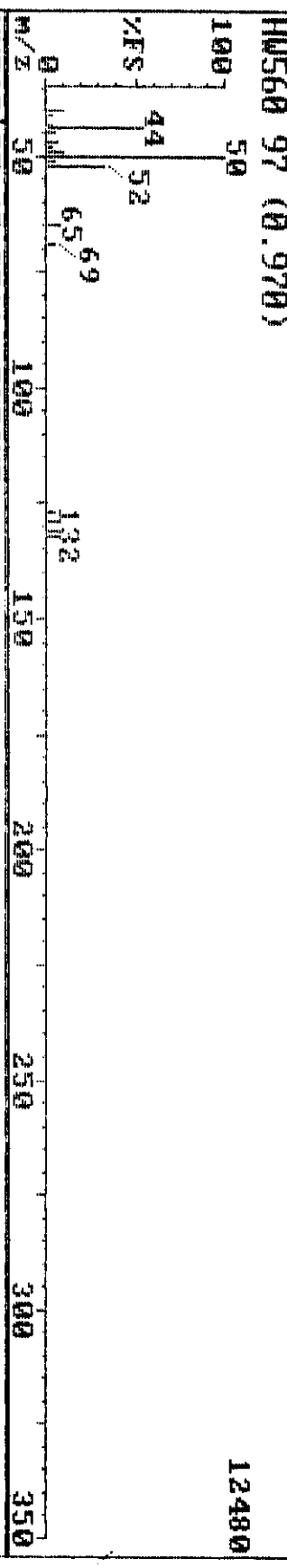
Data Review: PAB
Date: 8/10/98

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	45	44	44	7	4404	bb	12.04	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	61	57	57	3	7204	A	13.34	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

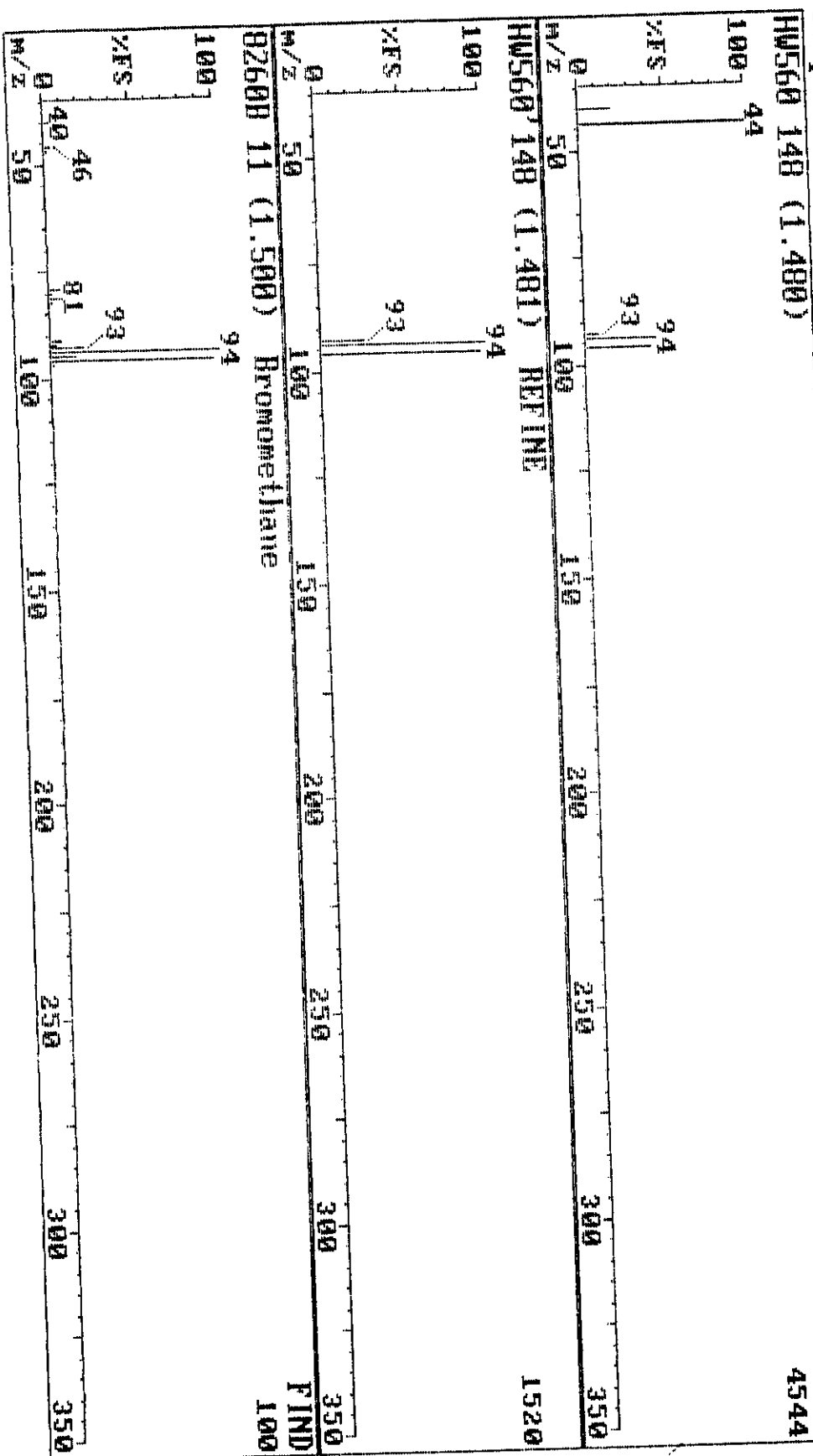
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	85	99	0	2171720	bb	5.04	168 Pentafluorobenzene
2	100	97	98	1	2135508	bv	5.77	114 1,4-Difluorobenzene
3	100	95	95	0	3400236	bv	9.96	117 Chlorobenzene-d5
4	100	81	99	3	2191016	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	97	100	1	1187804	bv	4.91	113 Dibromofluoromethane
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	74	55	65	1	15396	bb	4.24	42 1,2-Epoxybutane
13	100	91	92	1	133384	bb	5.40	57 Iso-Octane
14	35	26	53	13	30256	n	6.19	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 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 214-27-20B TL1#46323



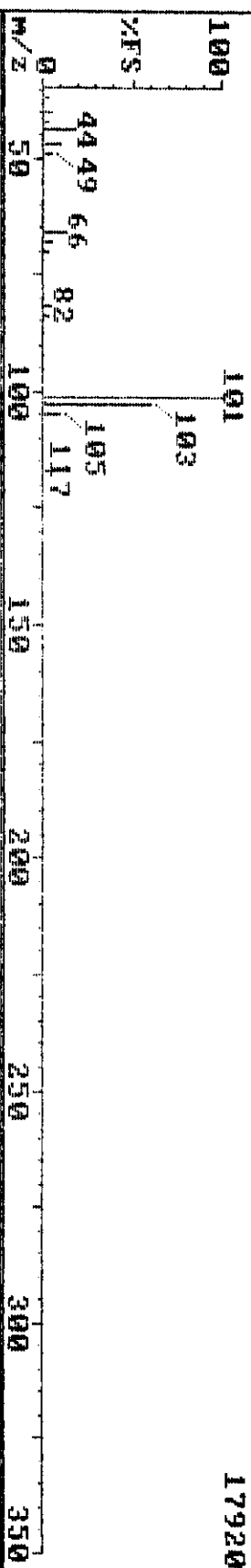
08-09-98 09:11

Triangle Laboratories, Inc. (919) 544-5729

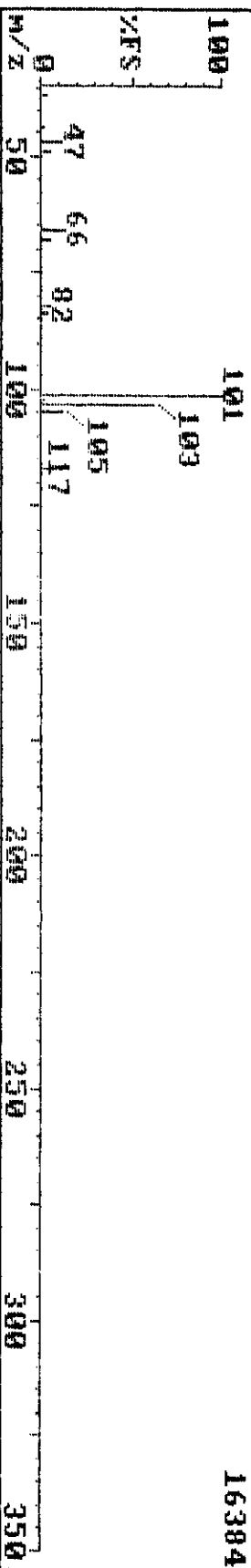
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Instrument H

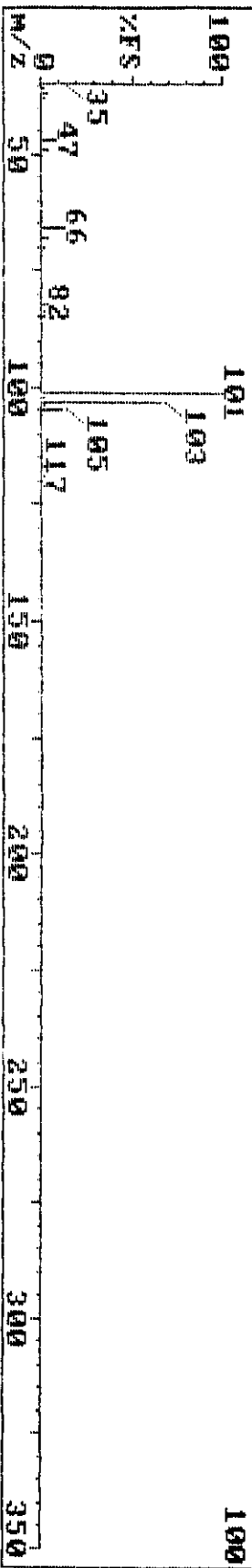
HM560 190 (1.900)



HM560 190 (1.901) REFINE



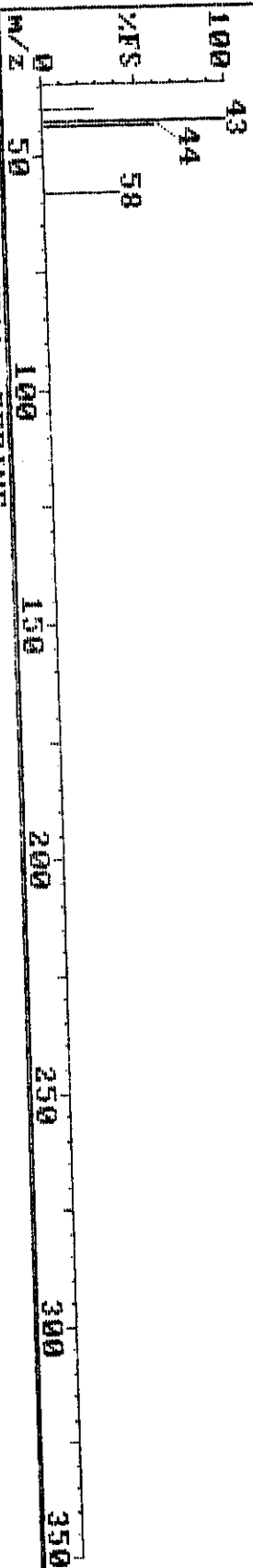
8260B 13 (1.930) Trichlorofluoromethane



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

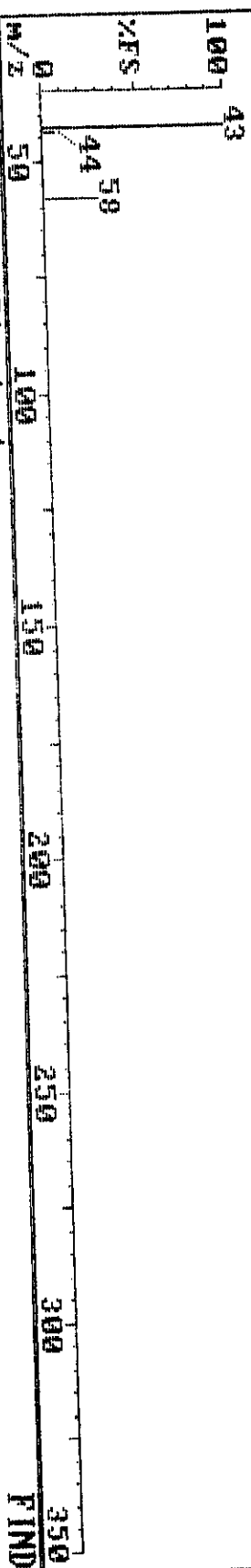
HW560 277 (2.770)

2720



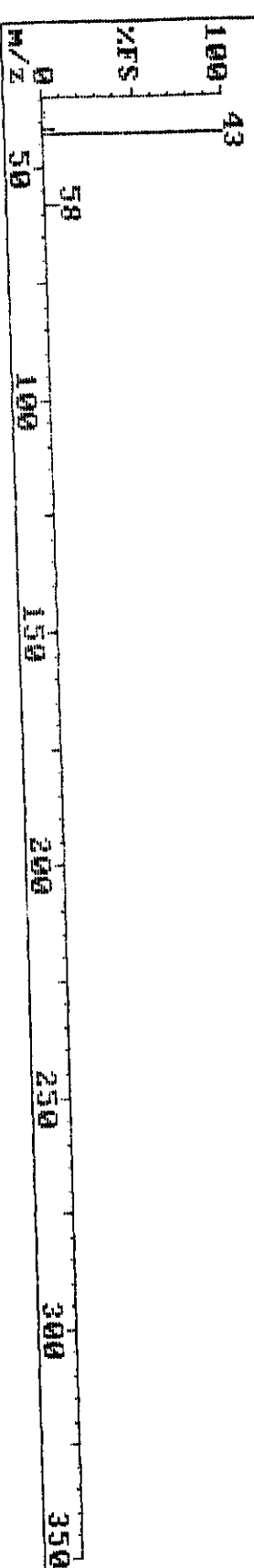
HW560 277 (2.771) REFINE

1472



0260B 17 (2.690) Acetone

FIND 100



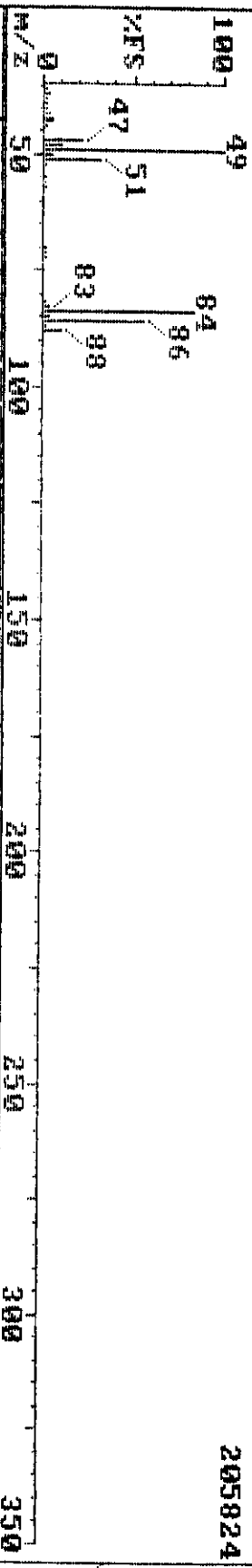
08-09-98 09:11

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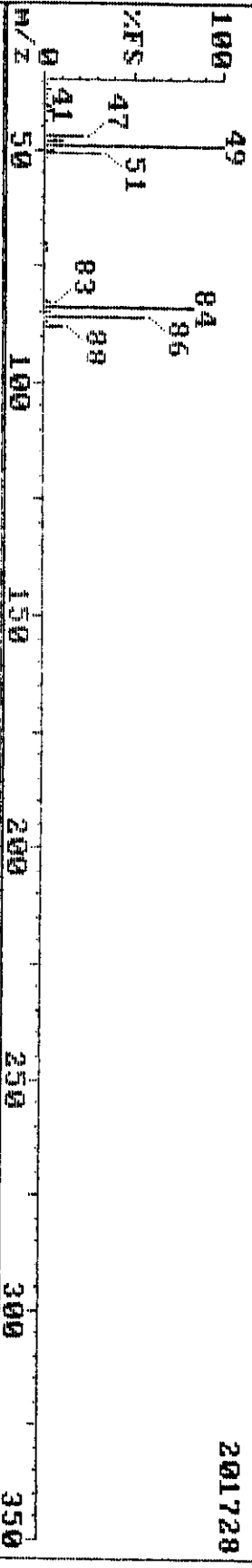
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Instrument H

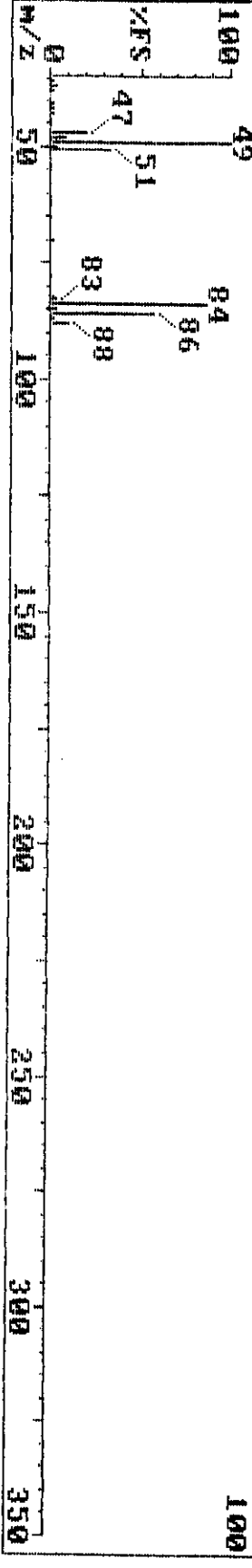
HW560 306 (3.066)



HW560 306 (3.061) REFINE

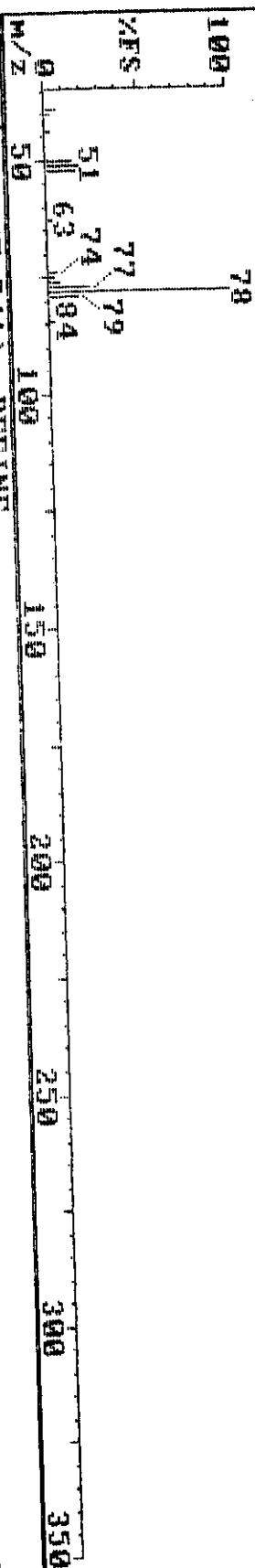


8260B 19 (3.100) Methylene chloride

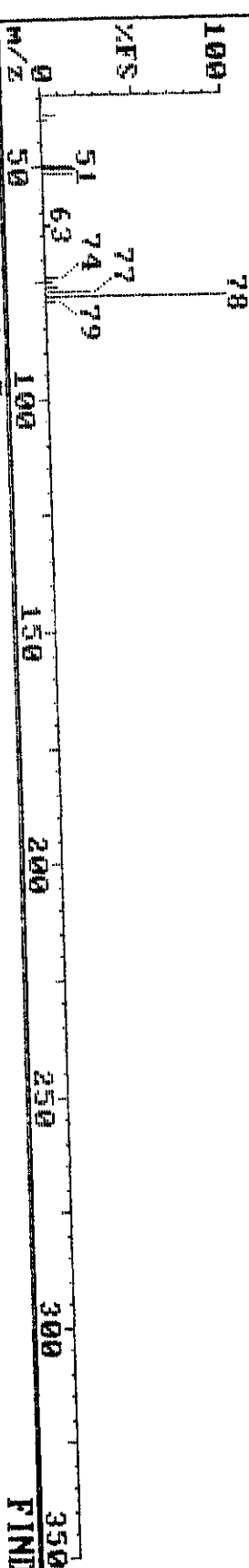


00-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
 Sample: T-U-4-1-B T/C 214-27-200 TL1046323

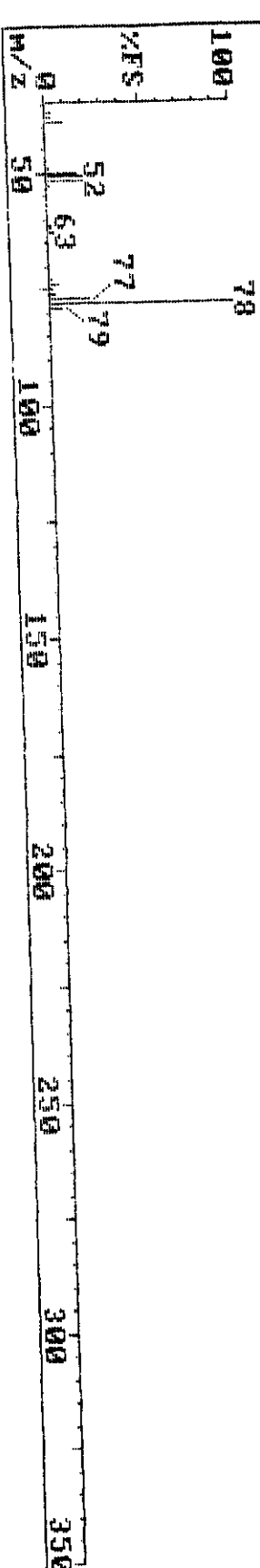
HM560 524 (5.241) 14912



HM560 524 (5.241) REFINE 14144



8260B 32 (5.291) Benzene FIND 100



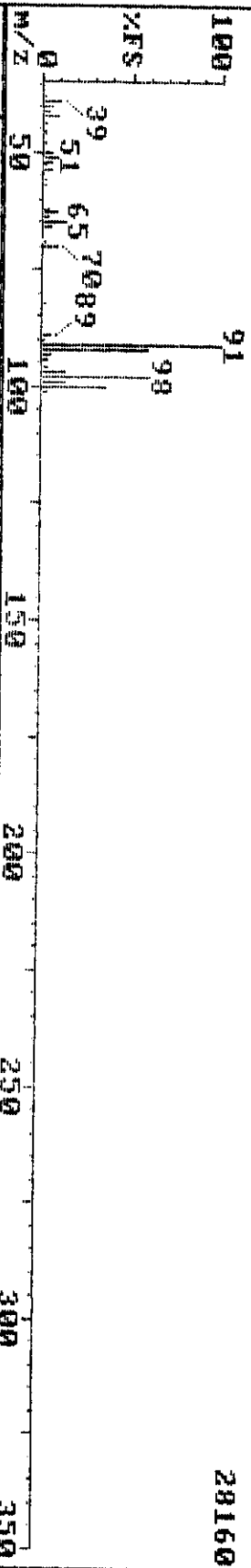
08-09-98 09:11

Triangle Laboratories, Inc. (919) 544-5729

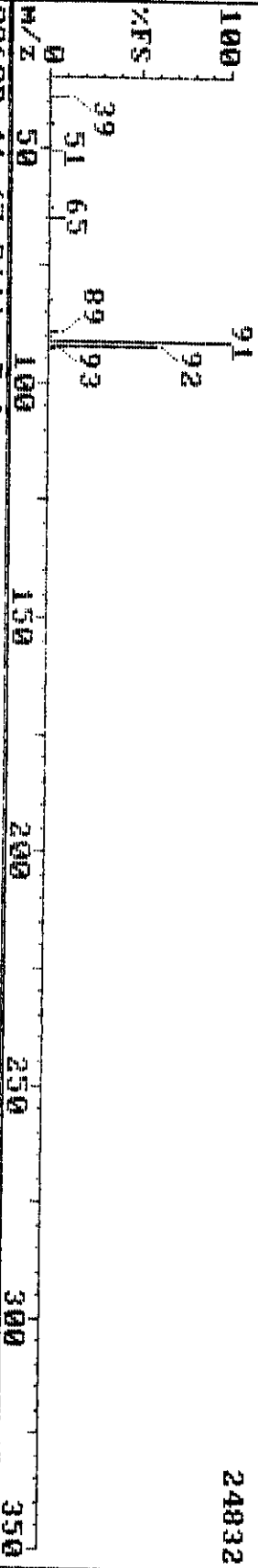
Sample: T-U-4-1-B T/C 214-27-20B TL1#46323

Instrument H

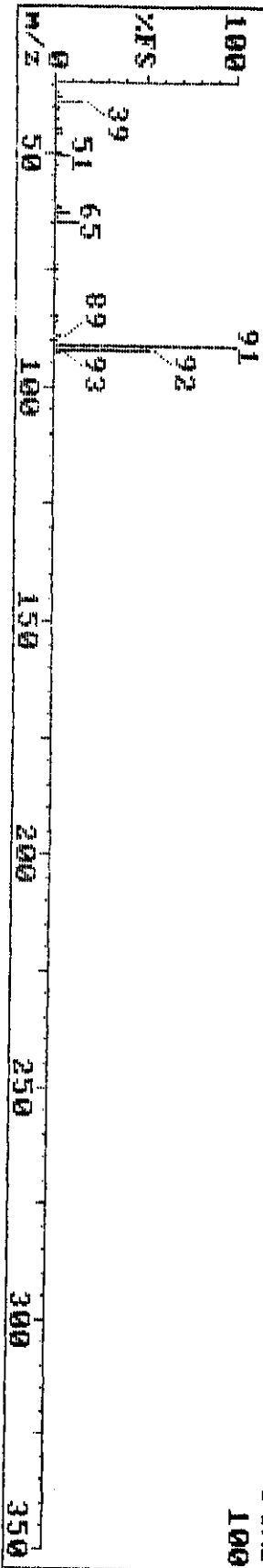
HM560 774 (7.741)



HM560 774 (7.741) REFINE



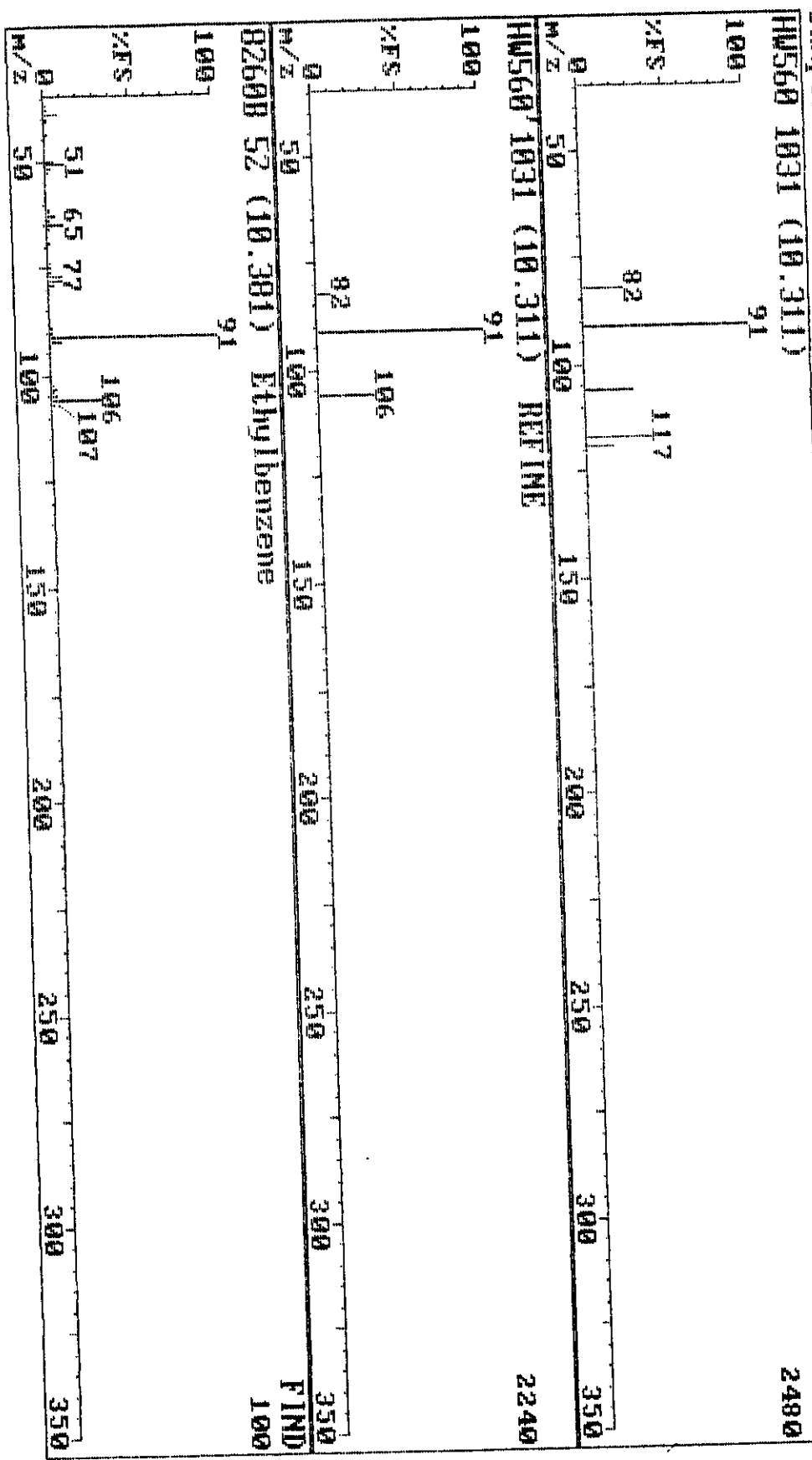
8260B 41 (7.811) Toluene



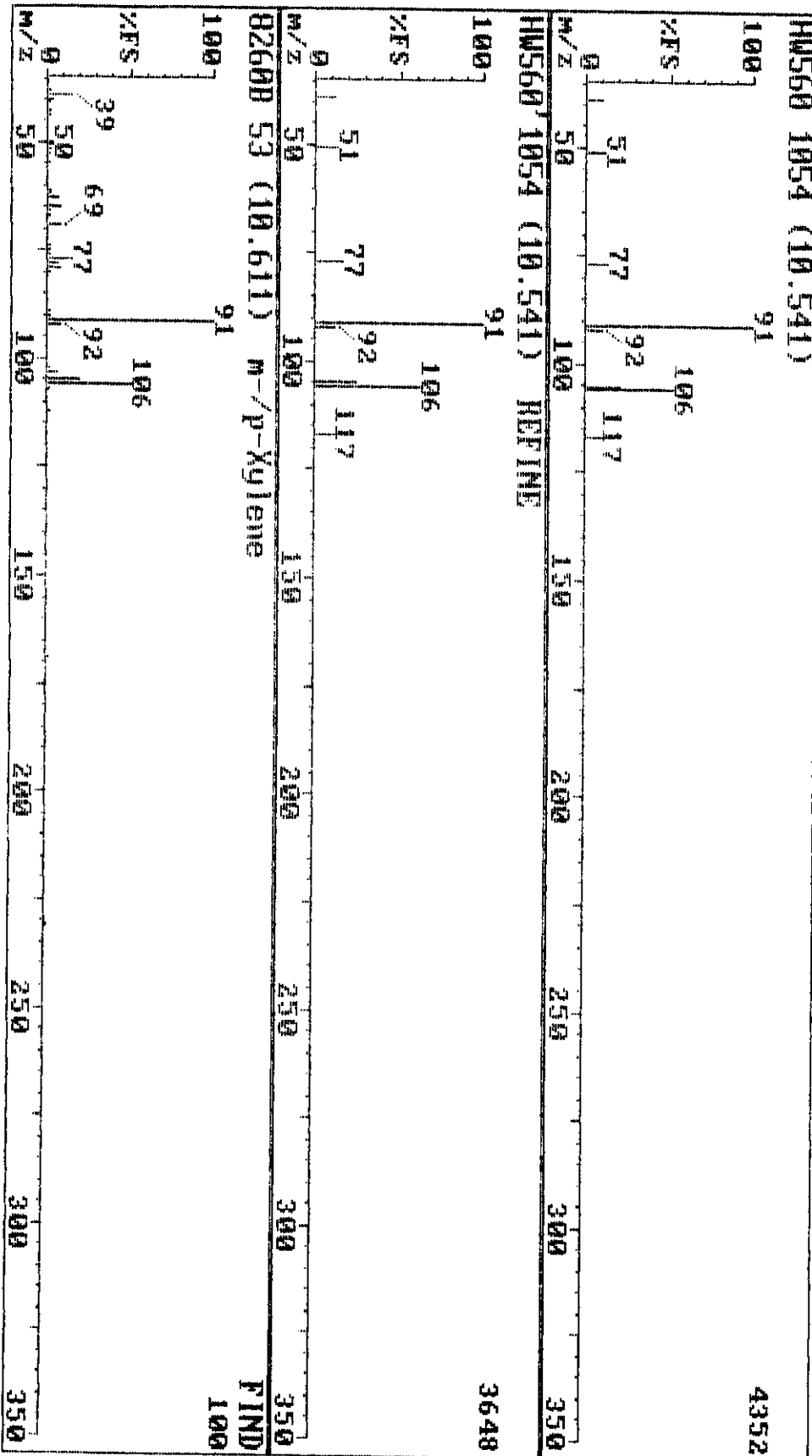
FIND

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

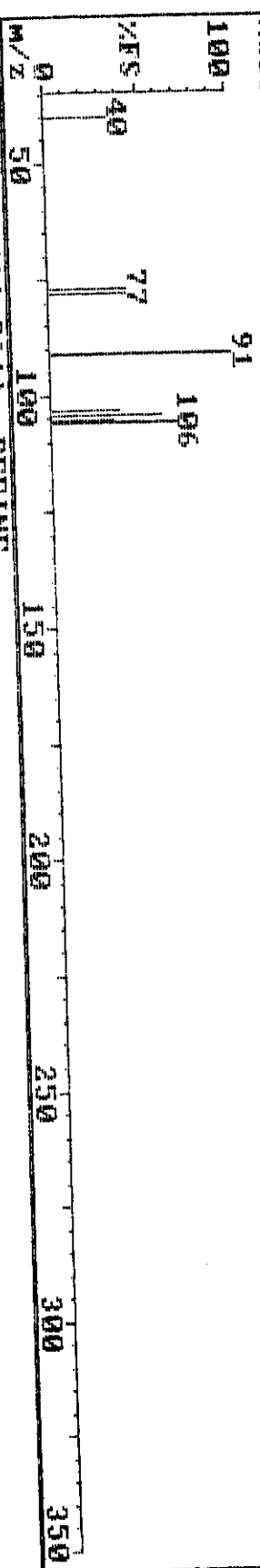


08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-B T/C 214-27-20B TL1#46323 Instrument H

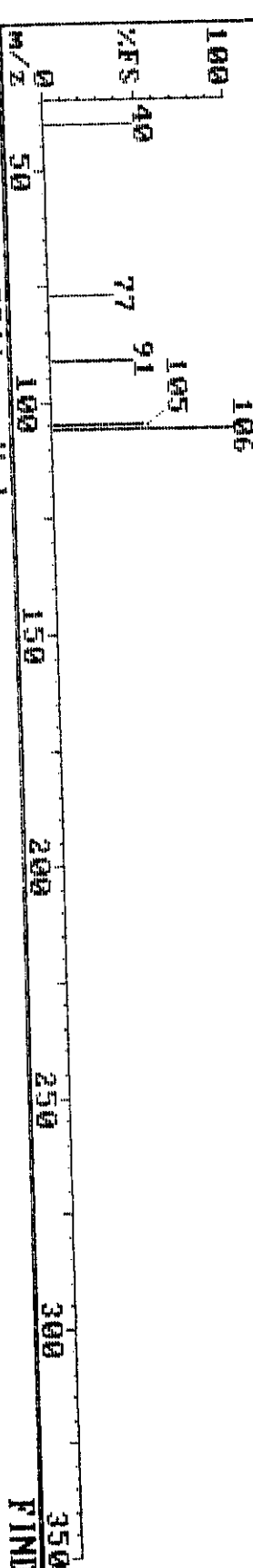


08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-B T/C 214-27-280 TL1#46323 Instrument H

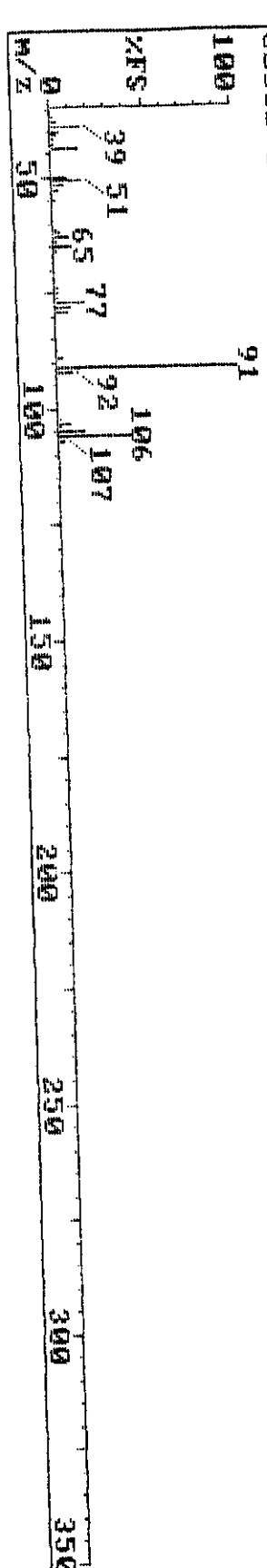
HM560 1126 (11.261) 1280



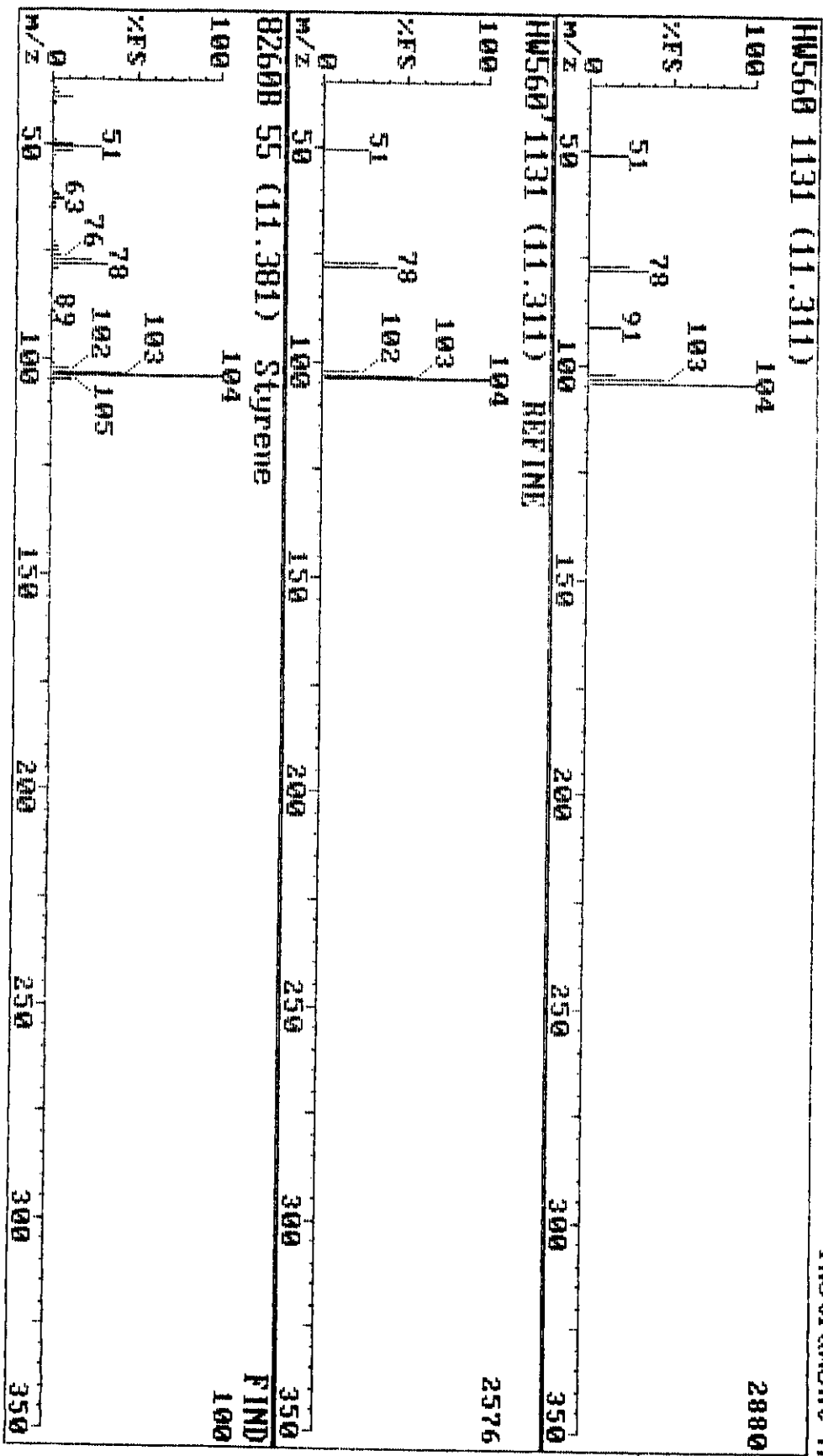
HM560 1126 (11.261) REFINE 872



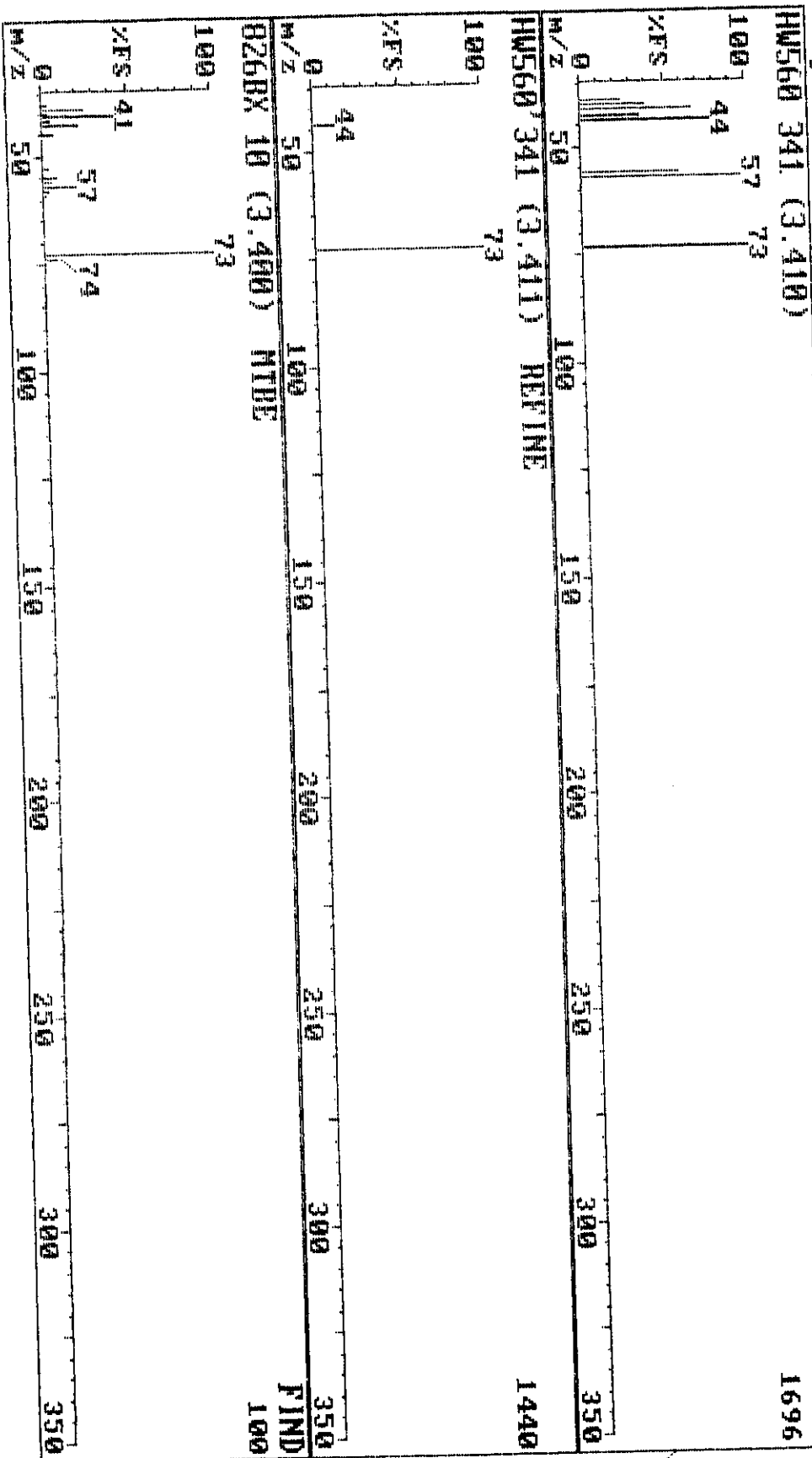
82608 54 (11.331) o-Xylene FIND 100



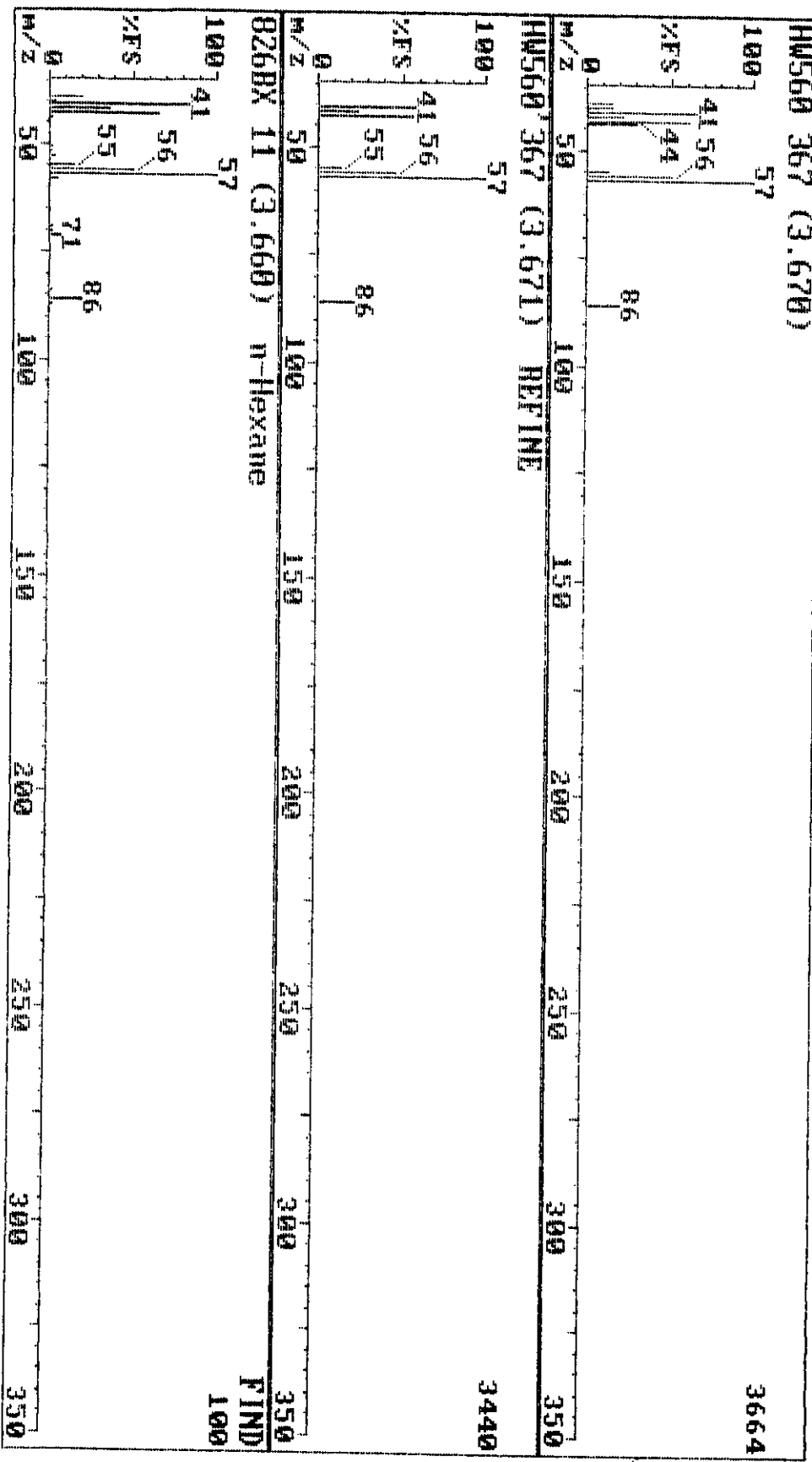
08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-1-B T/C 214-27-20B TL1#46323 Instrument H



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-1-B T/C 214-27-20H TLH46323 Instrument H



08-09-98 09:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-1-B T/C 214-27-20H TL1#46323 Instrument H



08-09-98 09:11

Sample: T-V-4-1-B

T/C

Triangle Laboratories, Inc.

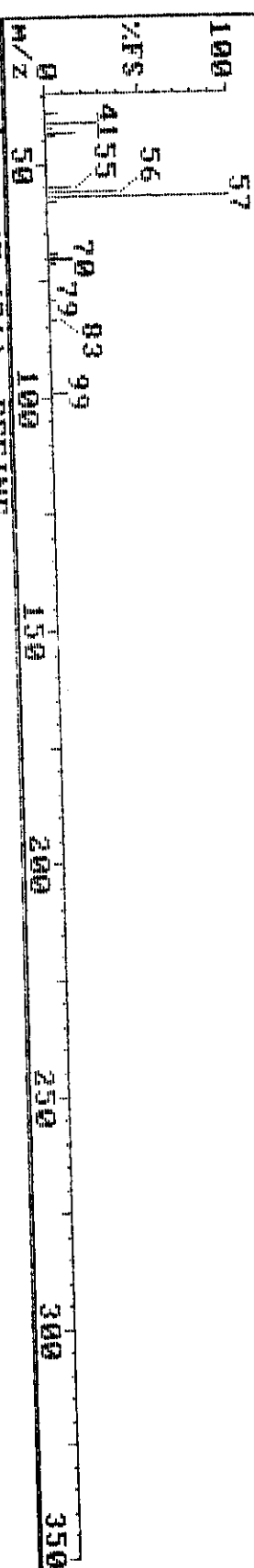
214-27-200

(919) 544-5729

Instrument H

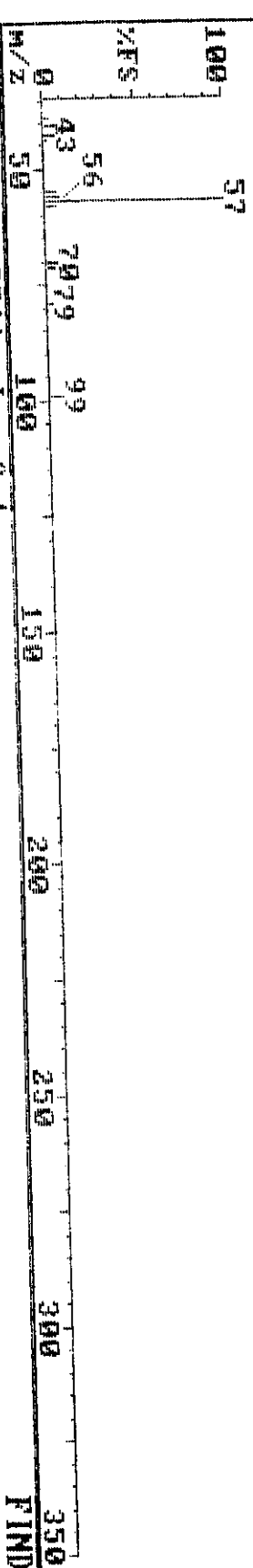
HM560 540 (5.401)

13056



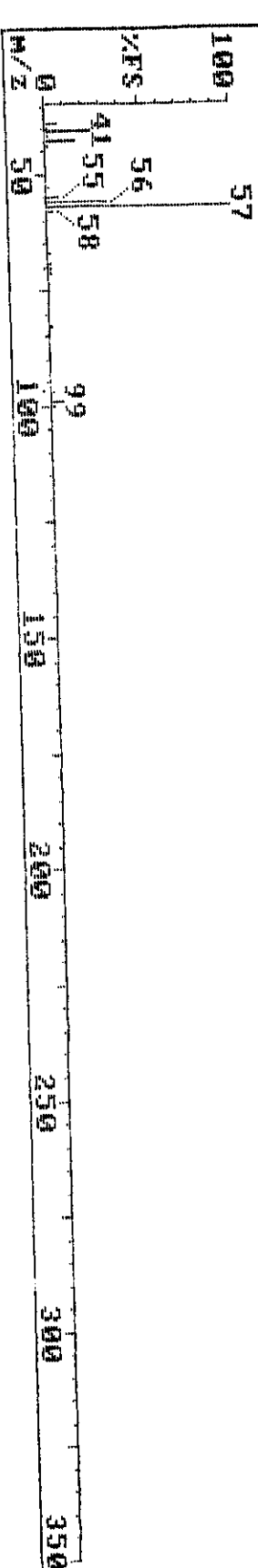
HM560 540 (5.401) REFINE

9792



826BX 13 (5.391) Iso-Octane

FIND 100



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: ICAH809

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.

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Printed: 16:11 08/10/1998

450

247

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 ₃		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 ₄		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

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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

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.242	4.89	1	97
Toluene-d ₈	0.244	7.62	2	98
4-Bromofluorobenzene	0.271	12.25	2	108

Reviewed by GarB 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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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 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

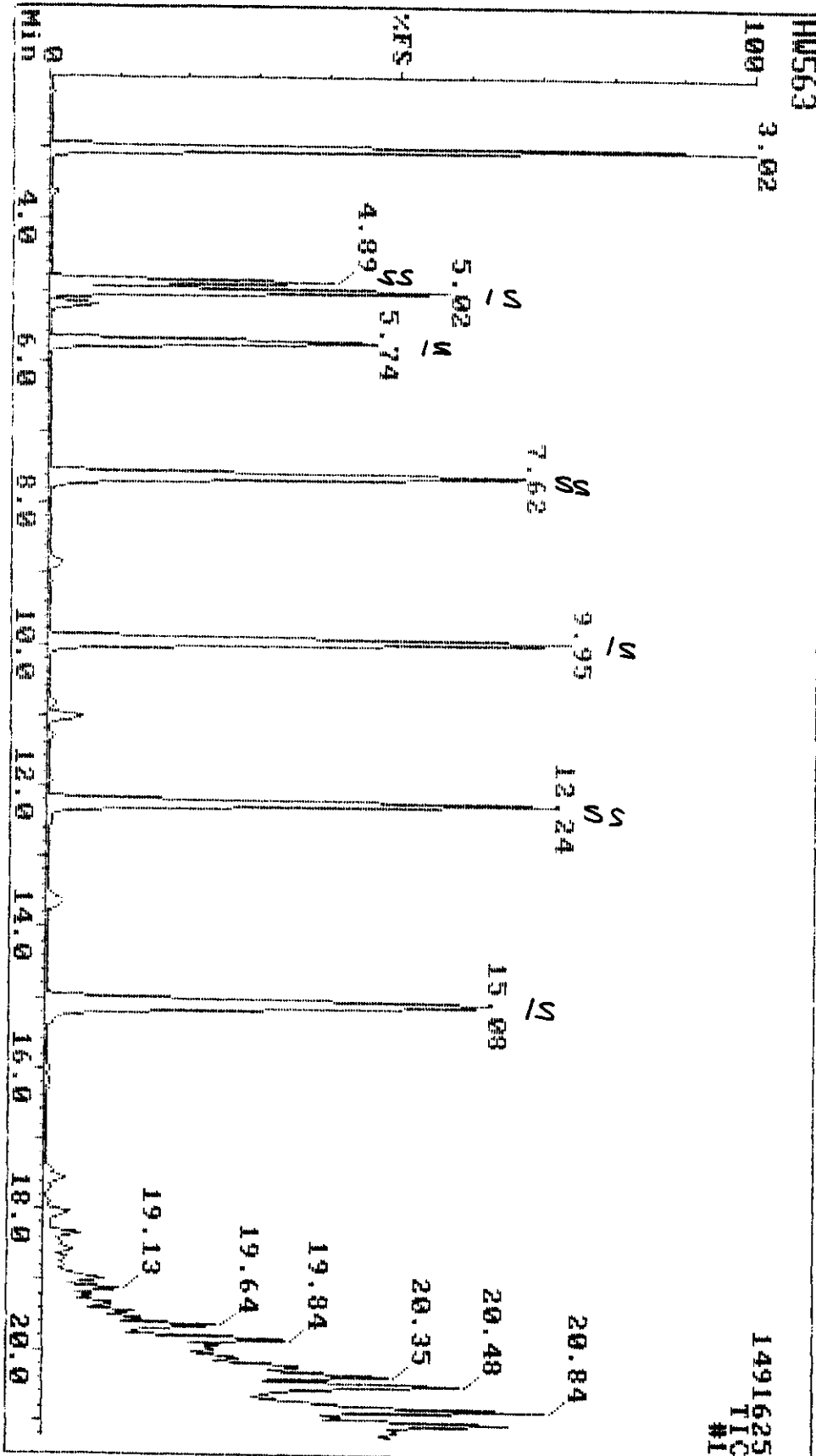
Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
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Savar v3.7
Printed: 16:39 08/10/1998

453

250

08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-2-A T 214-27-21A TLH46323 Instrument H



Data Review: *ParB*
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	59	42	52	0	3036	bb	2.58	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	70	50	50	0	3592	A	4.40	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	44	1	73	2	20292	A	7.61	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	51	51	51	5	14988	A	7.11	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		
52	29	53	53	24	2628	bb	10.53		131 1,1,1,2-Tetrachloroethan
53	63	52	52	1	2628	bb	10.53		106 Ethylbenzene
54	0	0	0	0	0		0.00		106 m-/p-Xylene
55	98	78	85	2	39804	bb	11.30		106 o-Xylene
56	0	0	0	0	0		0.00		104 Styrene
57	0	0	0	0	0		0.00		173 Bromoform
58	0	0	0	0	0		0.00		105 Cumene
59	0	0	0	0	0		0.00		83 1,1,2,2-Tetrachloroethan
60	0	0	0	0	0		0.00		156 Bromobenzene
61	0	0	0	0	0		0.00		75 1,2,3-Trichloropropane
62	23	10	46	-23	932608	A	12.25		120 n-Propylbenzene
63	0	0	0	0	0		0.00		75 trans-1,4-Dichloro-2-but
64	0	0	0	0	0		0.00		126 2-Chlorotoluene
65	30	39	39	-16	880	bb	13.13		126 4-Chlorotoluene
66	0	0	0	0	0		0.00		105 1,3,5-Trimethylbenzene
67	54	39	50	2	28548	A	14.21		119 tert-Butylbenzene
68	0	0	0	0	0		0.00		105 1,2,4-Trimethylbenzene
69	0	0	0	0	0		0.00		105 sec-Butylbenzene
70	0	0	0	0	0		0.00		119 p-Cymene
71	0	0	0	0	0		0.00		146 1,3-Dichlorobenzene
72	0	0	0	0	0		0.00		146 1,4-Dichlorobenzene
73	0	0	0	0	0		0.00		91 Benzyl chloride
74	0	0	0	0	0		0.00		91 n-Butylbenzene
75	0	0	0	0	0		0.00		146 1,2-Dichlorobenzene
76	0	0	0	0	0		0.00		75 1,2-Dibromo-3-chloroprop
77	0	0	0	0	0		0.00		180 1,2,4-Trichlorobenzene
78	41	31	73	16	101048	bv	19.32		225 Hexachlorobutadiene
79	0	0	0	0	0		0.00		128 Naphthalene
									180 1,2,3-Trichlorobenzene

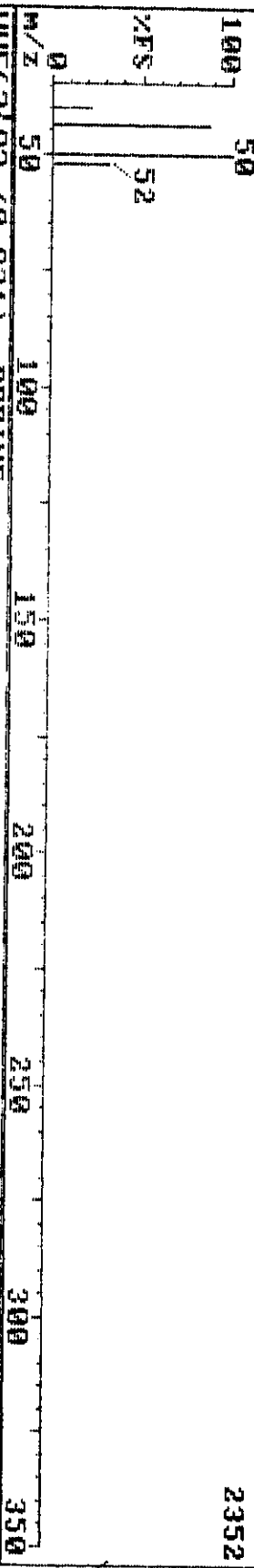
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	-2	2423308	bv	5.02	168 Pentafluorobenzene
2	100	97	98	0	2207752	bb	5.74	114 1,4-Difluorobenzene
3	100	94	94	4	3233076	bv	9.95	117 Chlorobenzene-d5
4	100	82	98	4	2122609	bv	15.08	152 1,4-Dichlorobenzene-d4
5	100	98	100	1	1249872	bv	4.89	113 Dibromofluoromethane
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

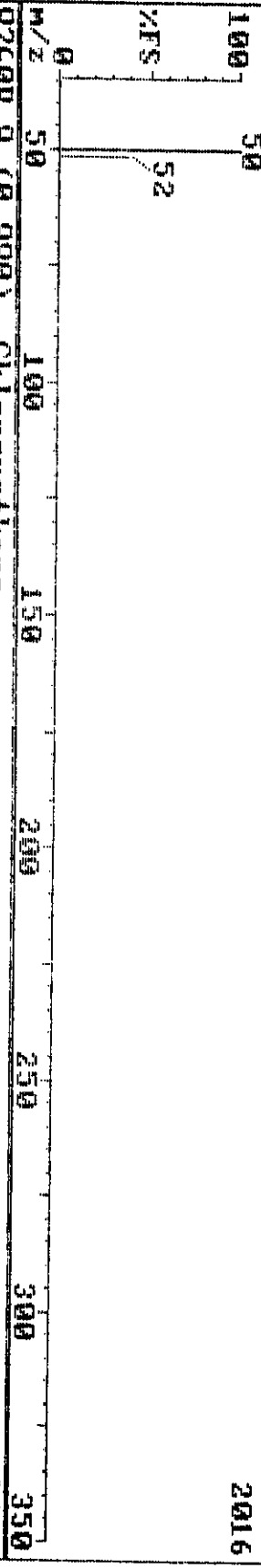
08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-2-A T 214-27-210 TLH46323

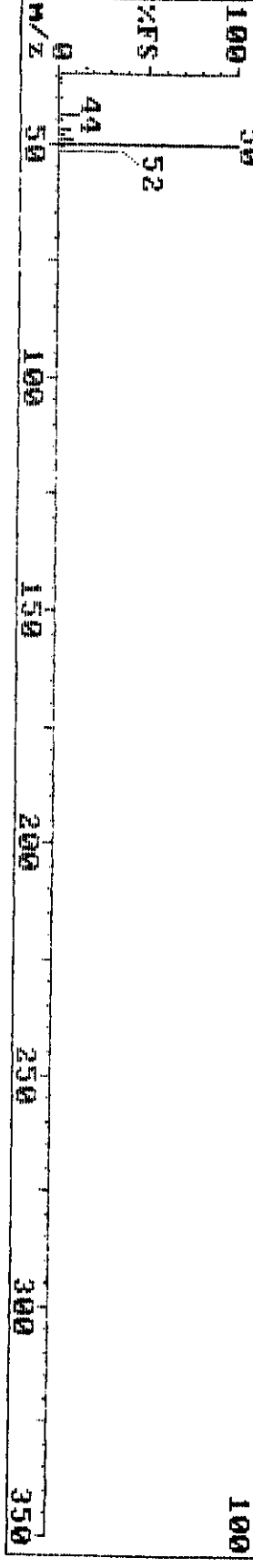
HM563 93 (0.930)



HM563 93 (0.931) REFINE

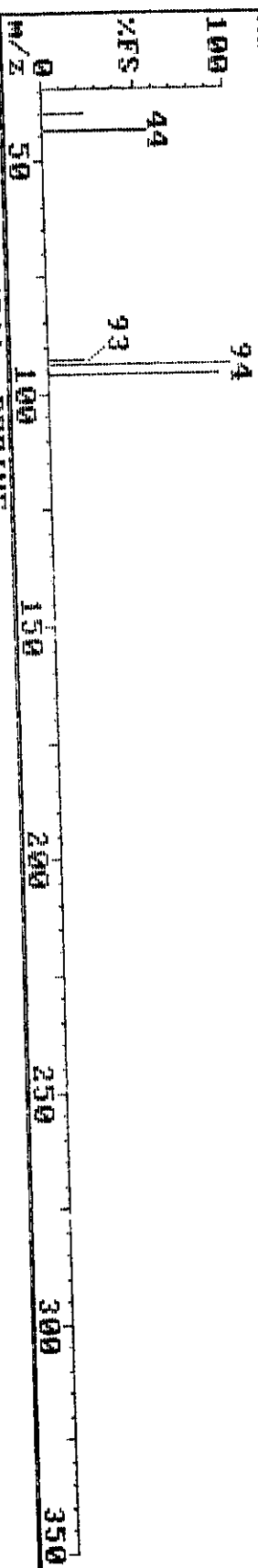


82608 9 (0.990) Chloromethane

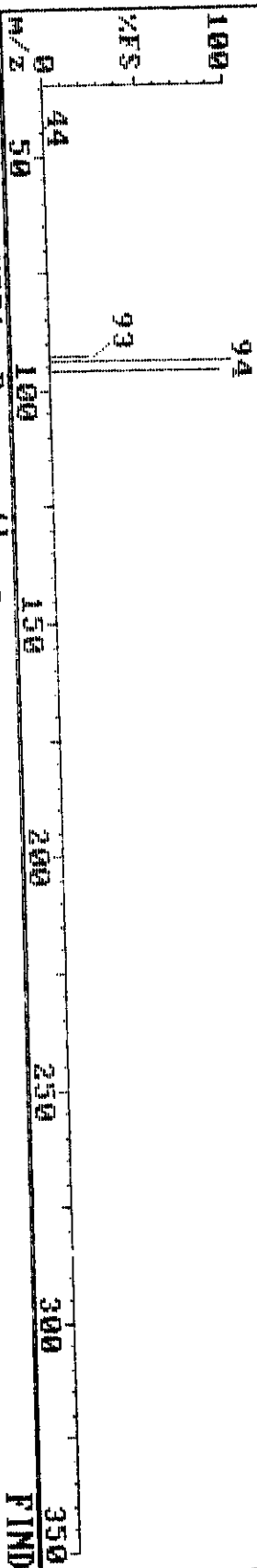


08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
 Sample: T-U-4-Z-A T 214-27-21A TL#46323

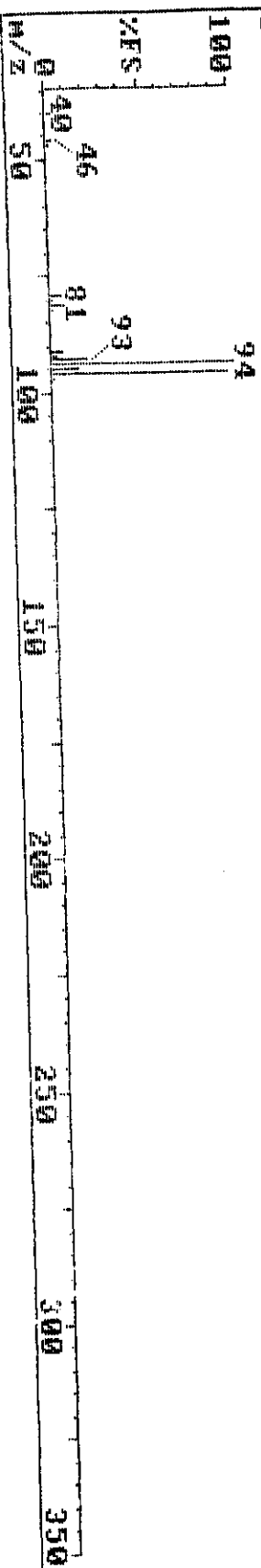
HW563 143 (1.430)



HW563 143 (1.431) REFINE



8260B 11 (1.500) Bromomethane

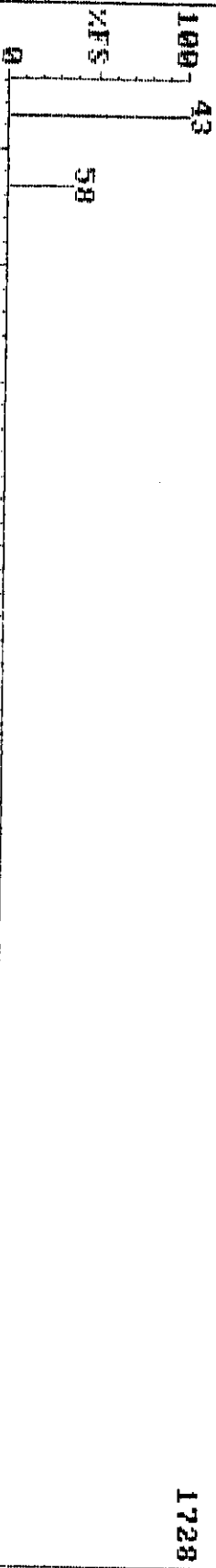


08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-2-A T 214-27-21A TLH46323 Instrument H

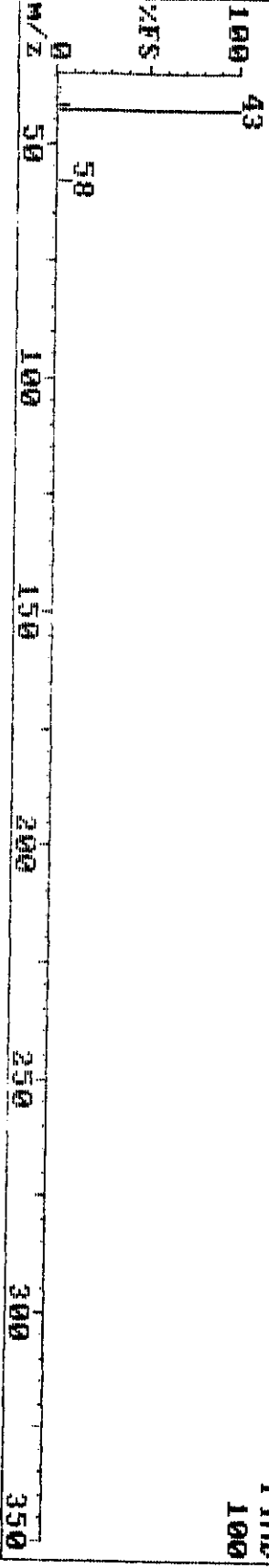
HM563 269 (2.690)



HM563 269 (2.691) REFINE



8260B 17 (2.690) Acetone



08-09-98 11:11

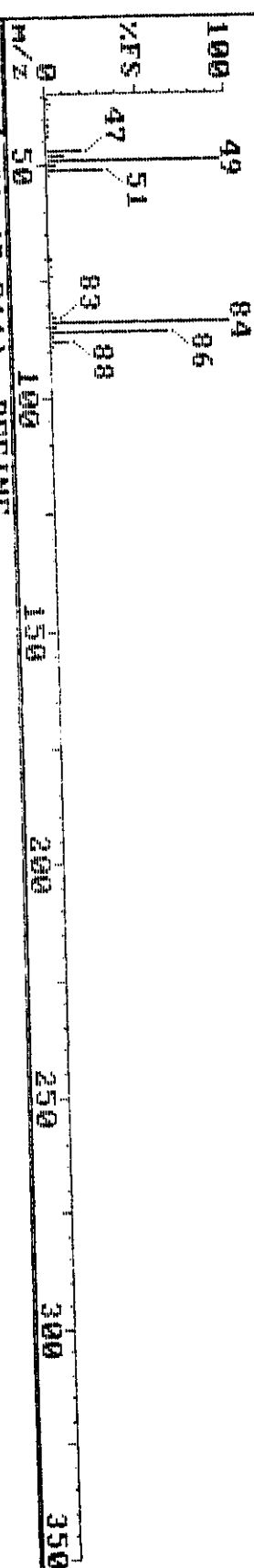
Triangle Laboratories, Inc. (919) 544-5729

Instrument H

Sample: T-U-4-2-A T 214-27-21A TL#46323

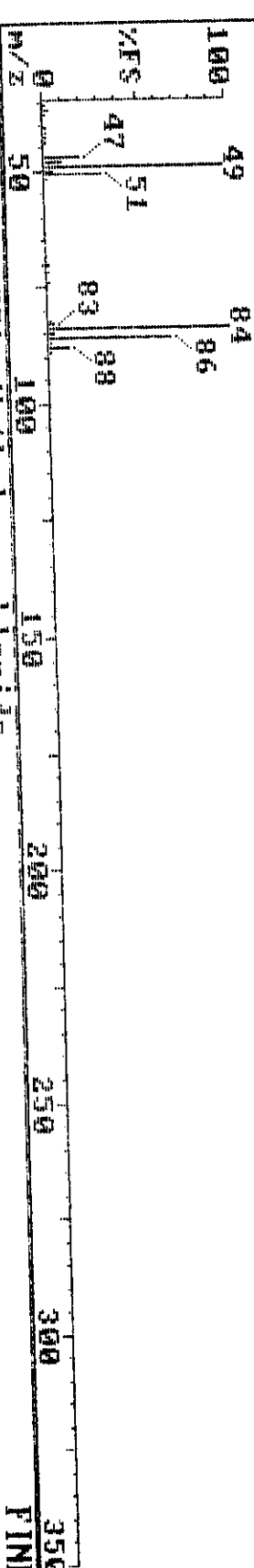
HM563 301 (3.010)

401408

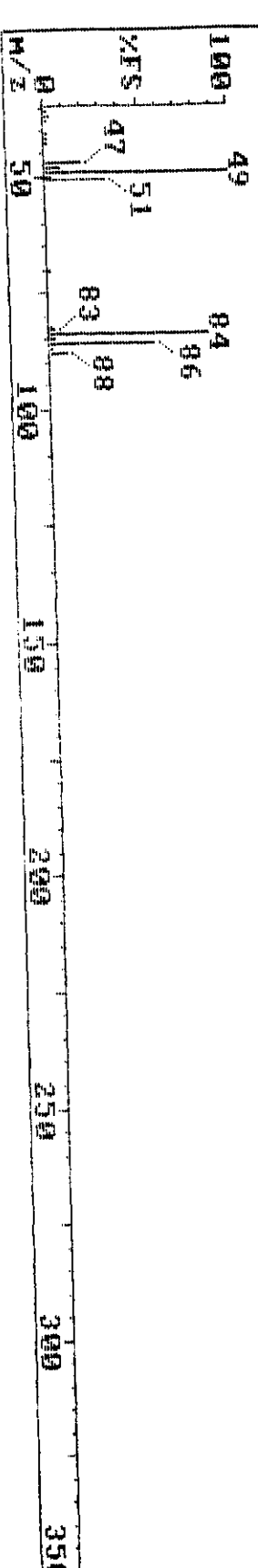


HM563 301 (3.011) REFINE

393216



82608 19 (3.100) Methylene chloride

FIND
100

08-09-98 11:11

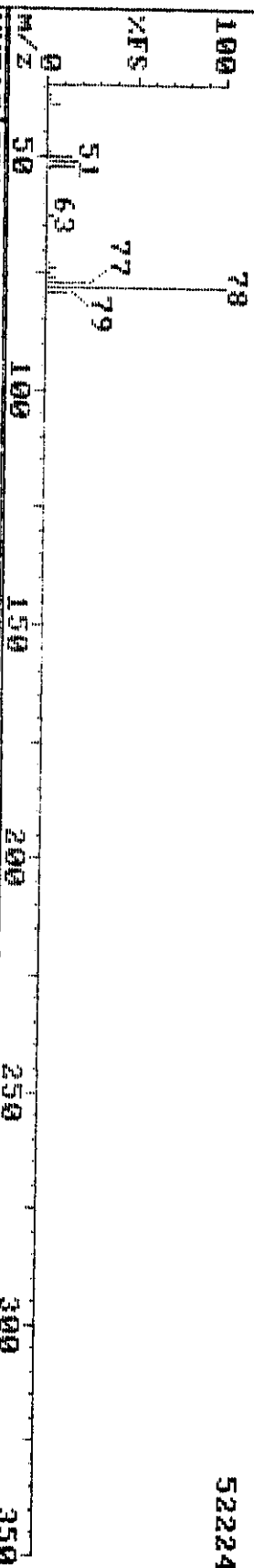
Triangyle Laboratories, Inc. (919) 544-5729

Sample: T-U-4-2-A T 214-27-21A TL#46323

Instrument H

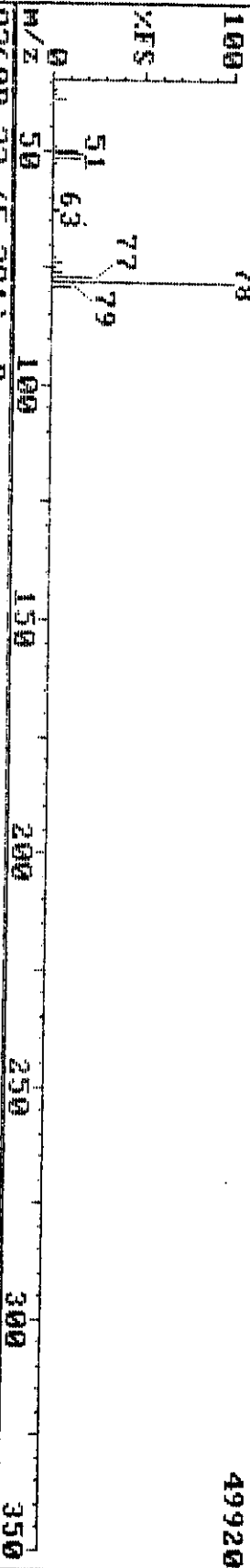
HM563 521 (5.211)

52224



HM563 521 (5.211) REFINE

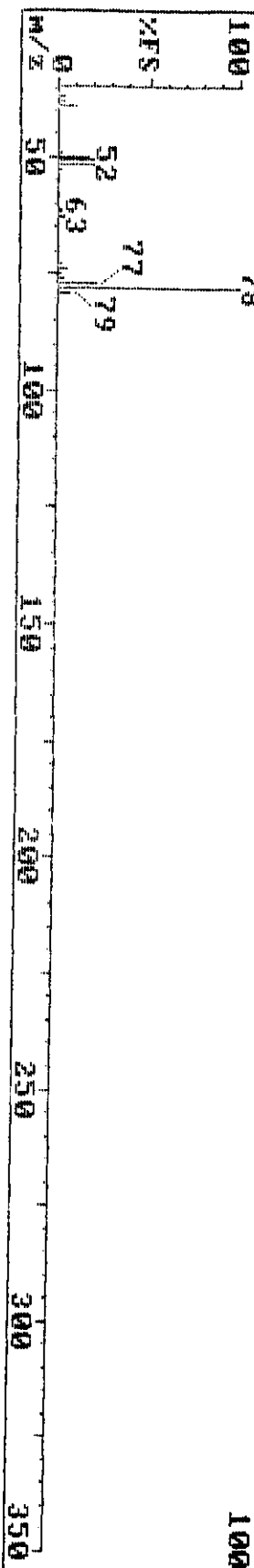
49920



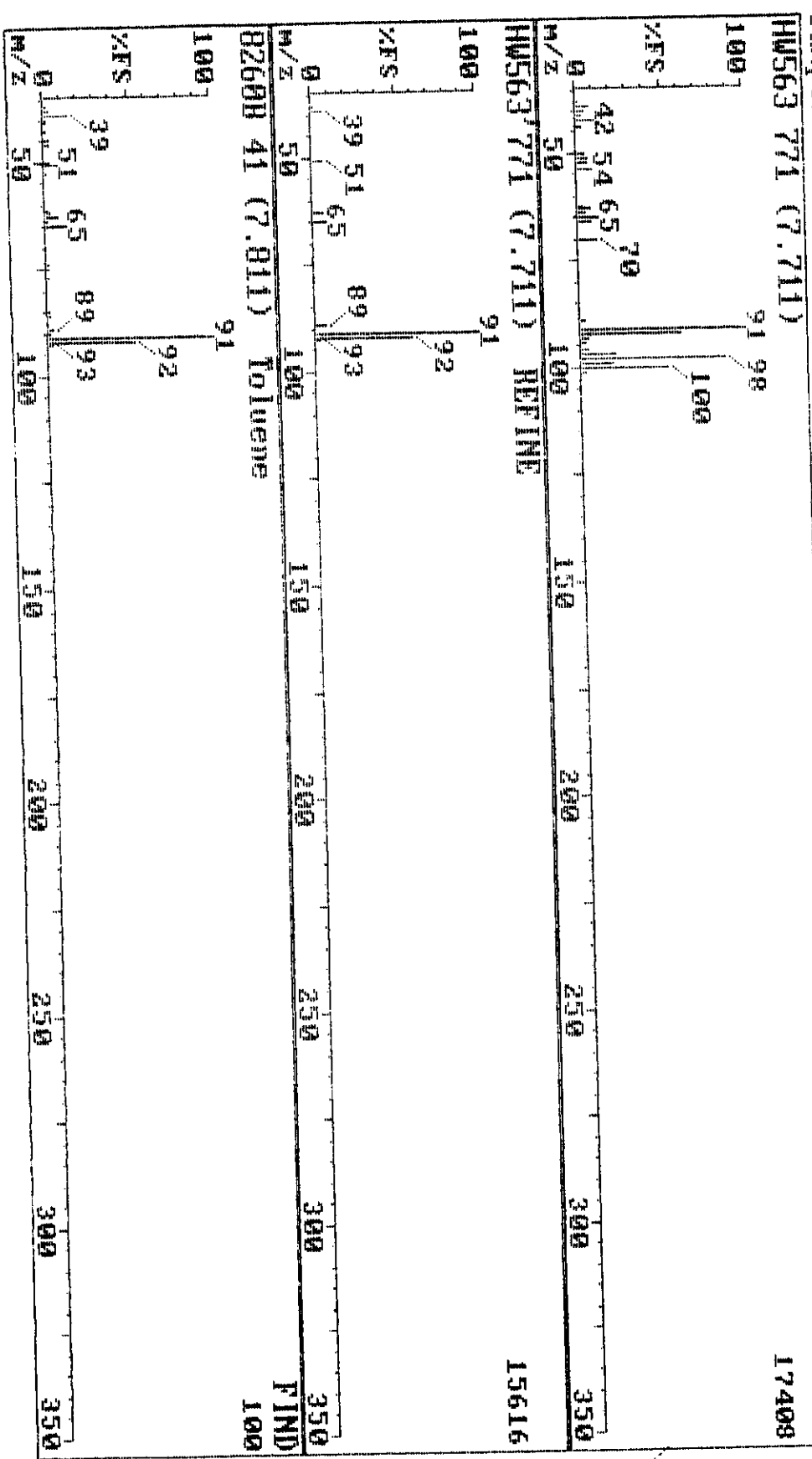
82608 32 (5.291) Benzene

FIND

100



08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-2-A T 214-27-210 TL#46323 Instrument H



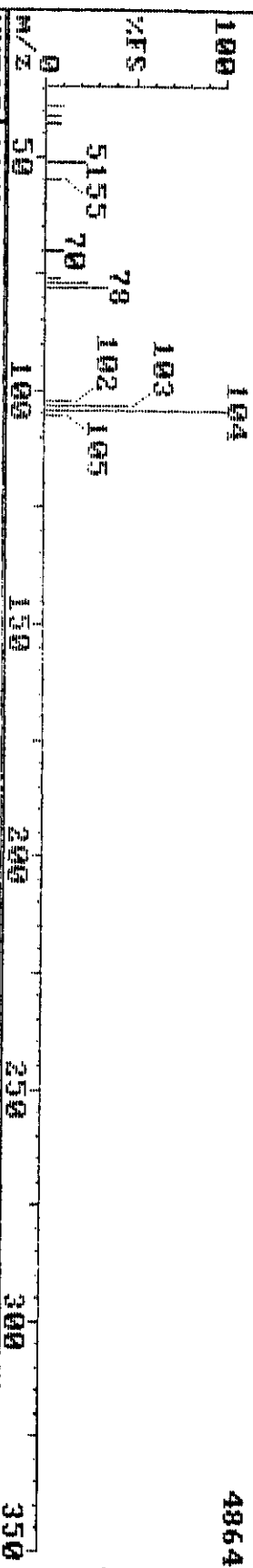
08-09-98 11:11

Triangle Laboratories, Inc. (919) 544-5729

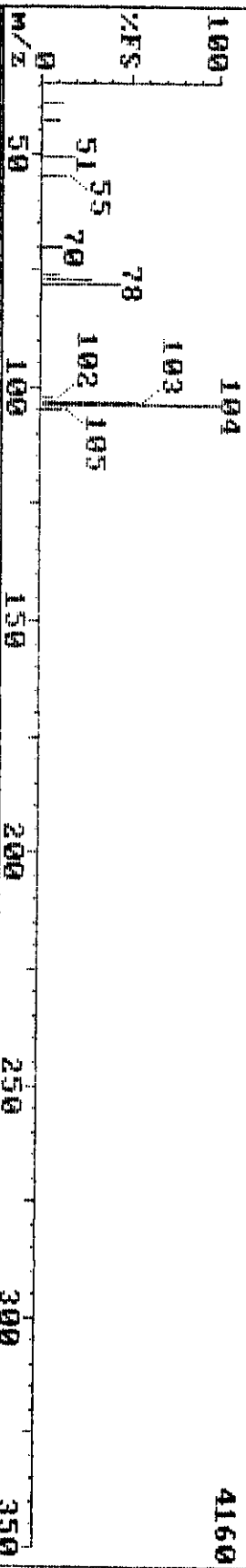
Sample: T-V-4-Z-A T 214-27-21A TL1H46323

Instrument H

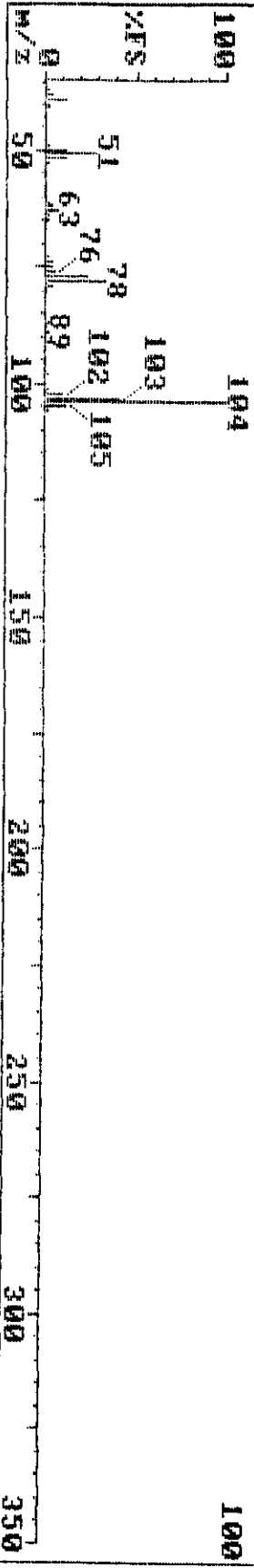
HM563 1130 (11.301)



HM563 1130 (11.301) REFINE



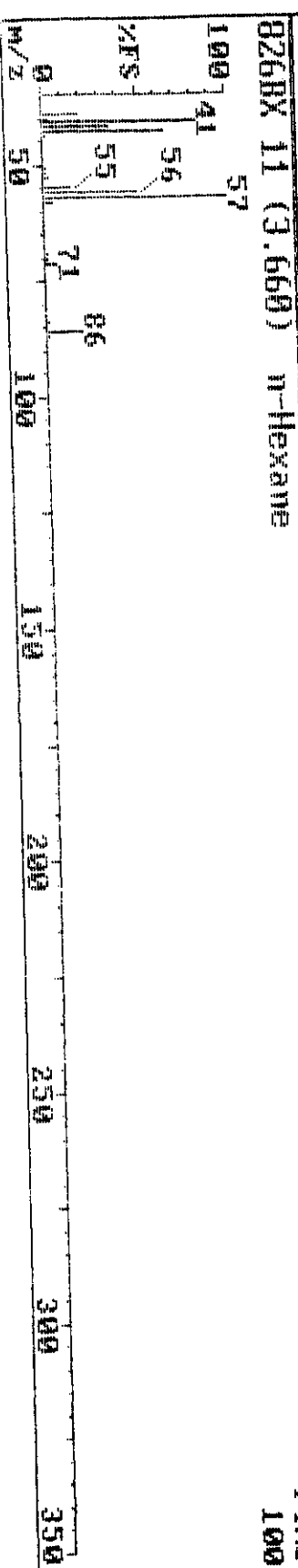
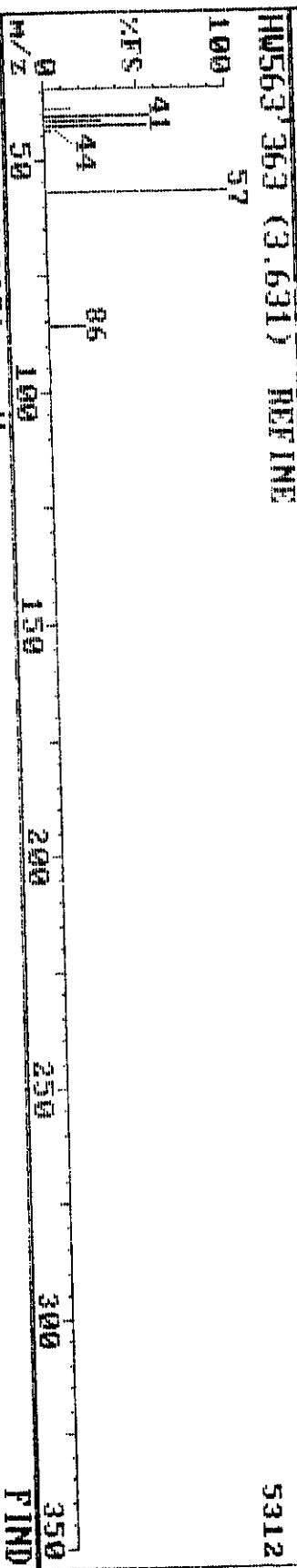
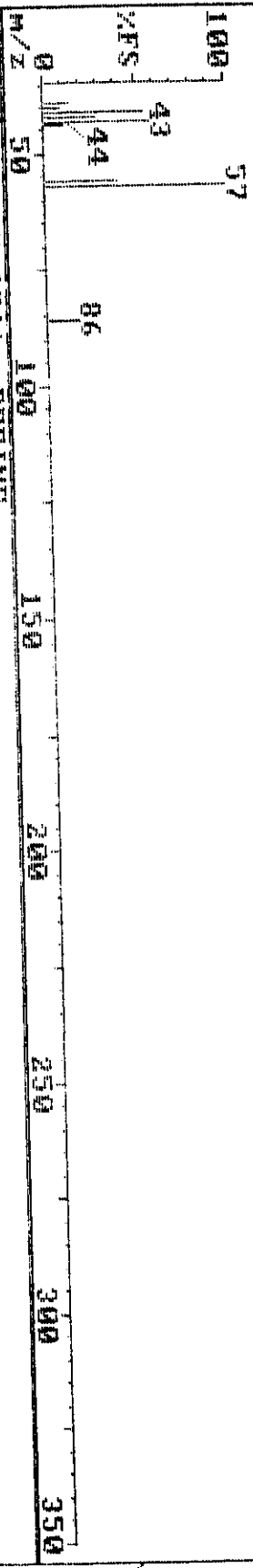
82608 55 (11.381) Styrene



FIND

100

08-09-98 11:11 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-2-A T 214-27-210 TL1H46323 Instrument H



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: ICALH809

TLI ID: 214-27-21B

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

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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 ₅		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 ₄		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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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: ICAH809

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 ₈	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

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Printed: 16:11 08/10/1998

468

265

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		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

Triangle Laboratories, Inc.
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Savar v3.7

Printed: 16:39 08/10/1998

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08-09-98 09:46

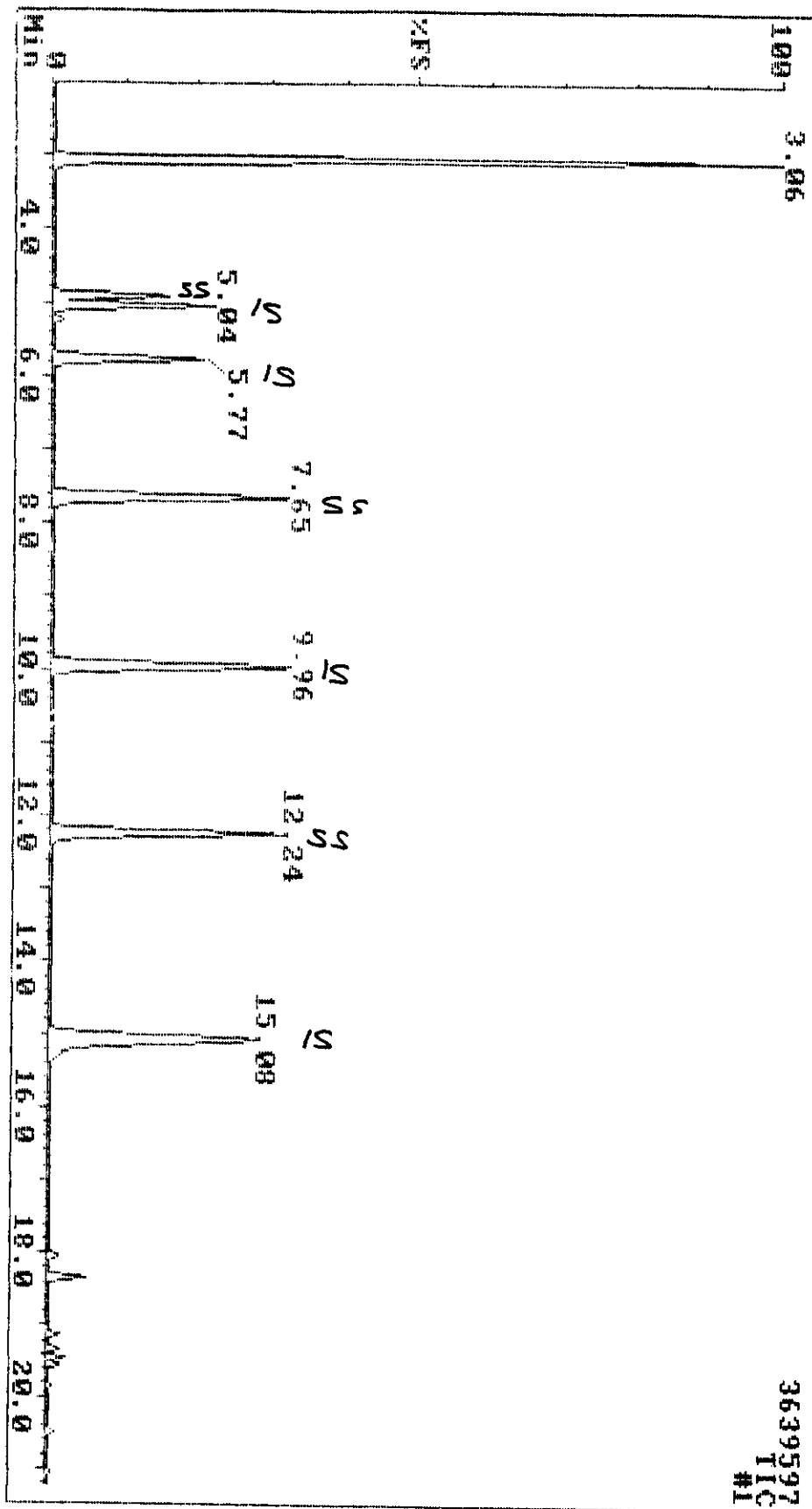
Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-2-B T/C 214-27-21B TL#46323

Instrument H

HW561



Data Review: *PaB*
Date: 8/10/98

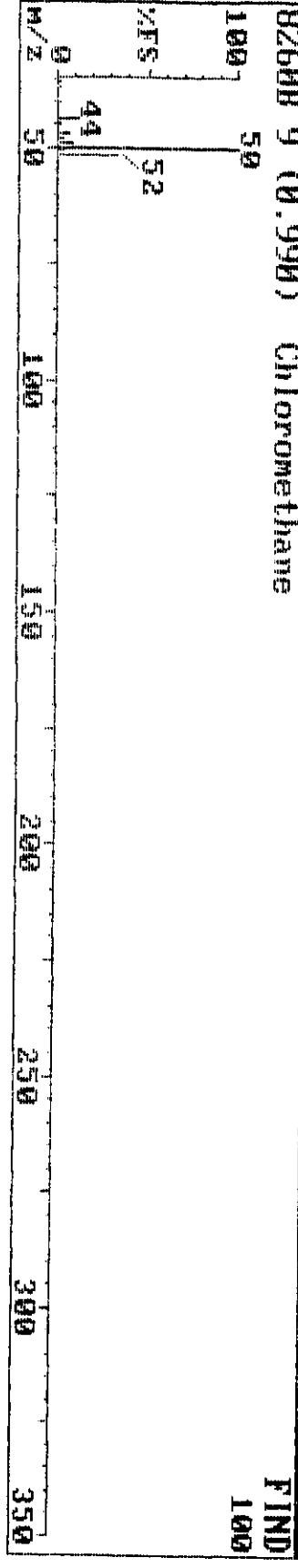
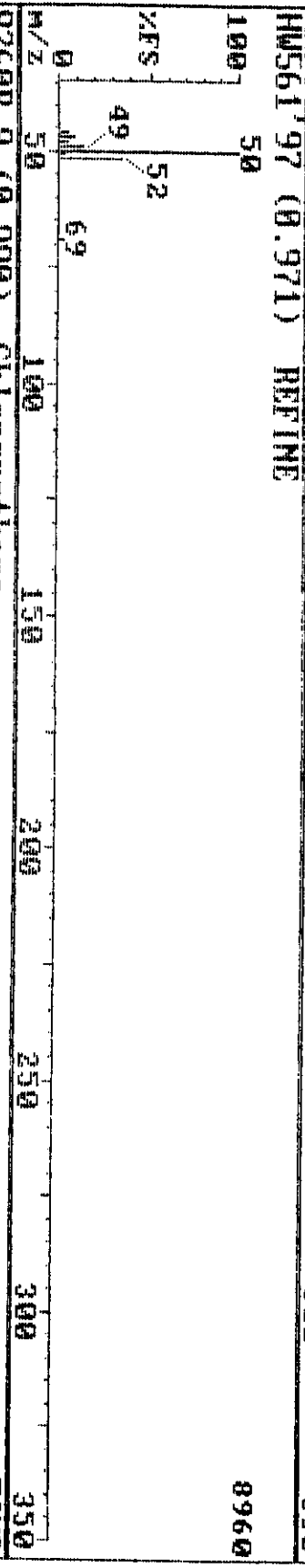
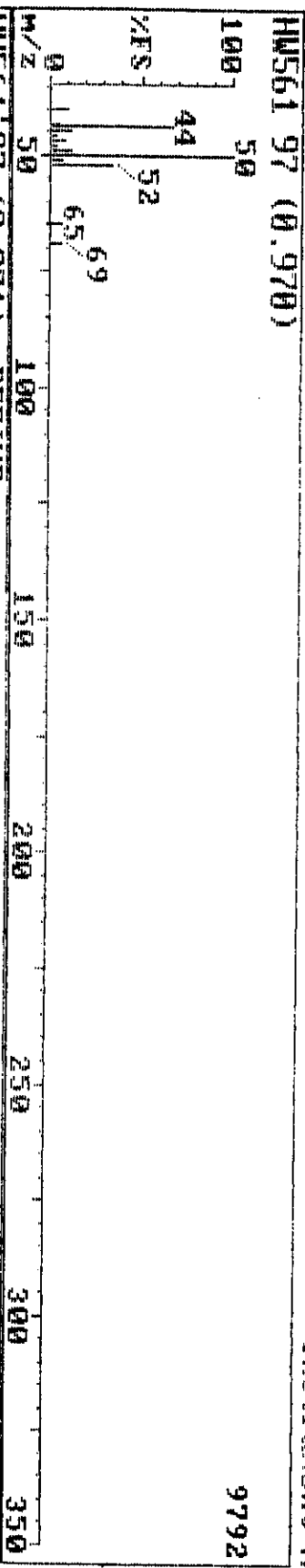
No.	MAT	FOR	REV	Delta	Area	P.Flags	RT	QM Name
1	100	86	98	-5	2231920	bv	5.04	168 Pentafluorobenzene
2	100	97	98	0	2360532	bv	5.77	114 1,4-Difluorobenzene
3	100	94	94	2	3394483	bv	9.96	117 Chlorobenzene-d5
4	100	82	98	-7	2297468	bv	15.07	152 1,4-Dichlorobenzene-d4
5	100	98	100	0	1196840	bv	4.91	113 Dibromofluoromethane
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	60	53	60	-1	17572	bv	2.53	76 Carbon disulfide
17	52	31	84	13	14906	bb	2.79	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	65	57	57	3	6092	bv	4.53	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	44	3	71	2	16480	bb	7.65	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	23	12	44	14	14352	bb	7.13	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: *PAR*
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	29	54	54	23	2152	A	10.52	106 Ethylbenzene
53	63	52	52	1	2152	A	10.52	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	13	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

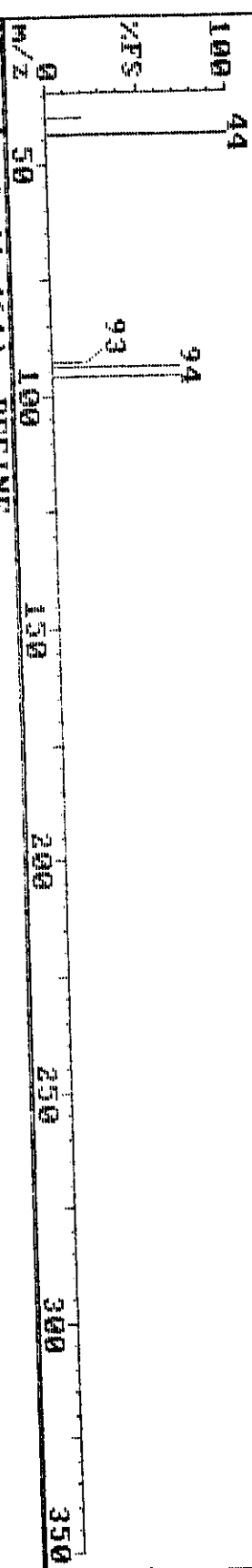
08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-2-B T/C 214-27-21D TL1#46323 Instrument H



08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
Sample: T-U-4-2-B T/C 214-27-21B TLH46323

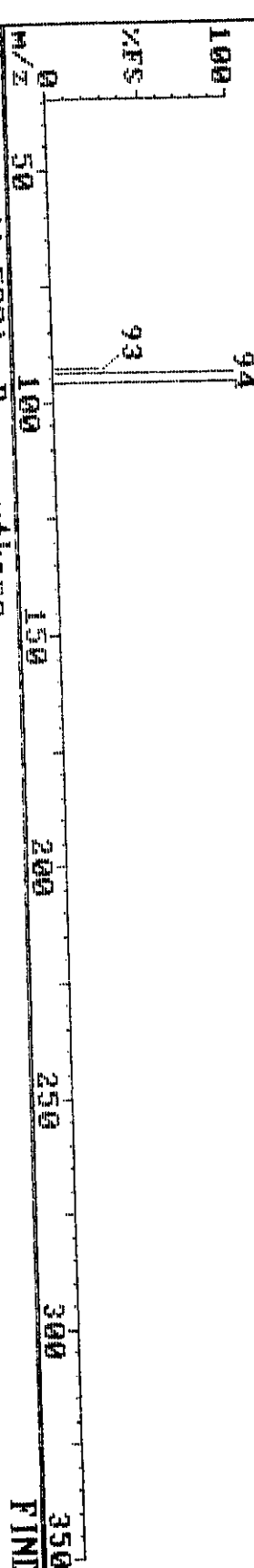
HW561 146 (1.460)

3328



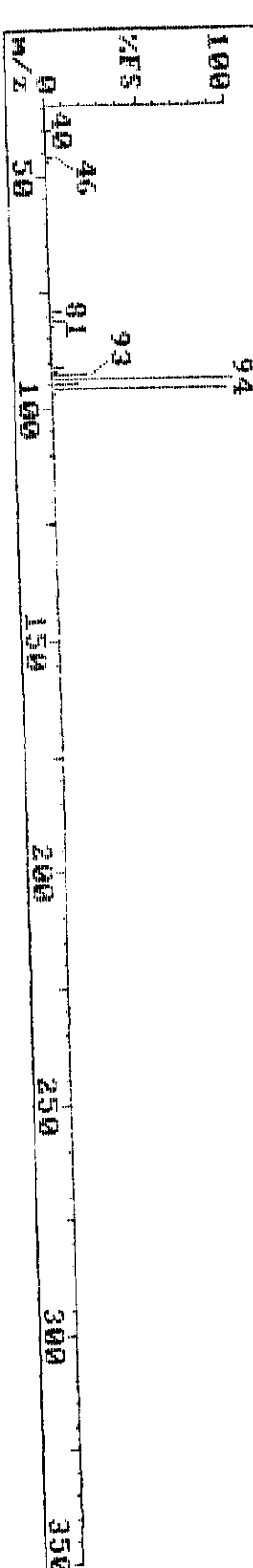
HW561 146 (1.461) REFINE

2176

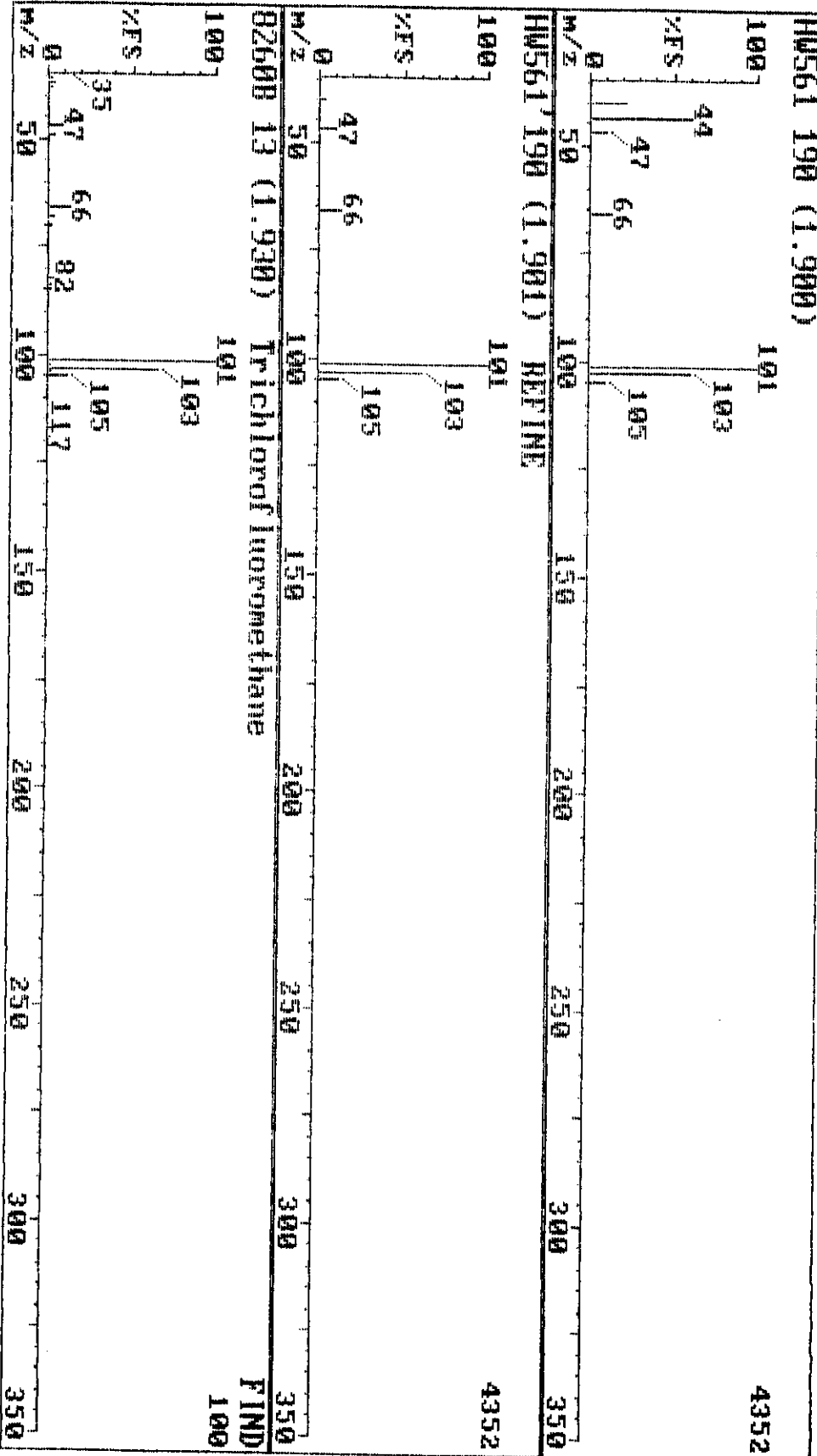


8260B 11 (1.500) Bromomethane

FIND 100



08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729
Sample: T-U-4-2-B T/C 214-27-21B TLH46323 Instrument H



09-Aug-98 09:46

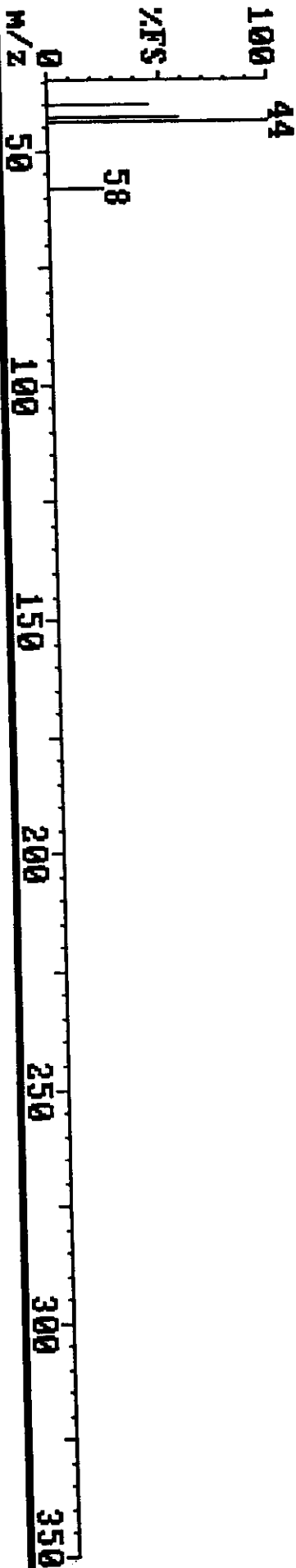
Triangle Laboratories, Inc. (919) 544-5729

Instrument H

Sample: T-U-4-2-B T/C 214-27-21B TL#46323

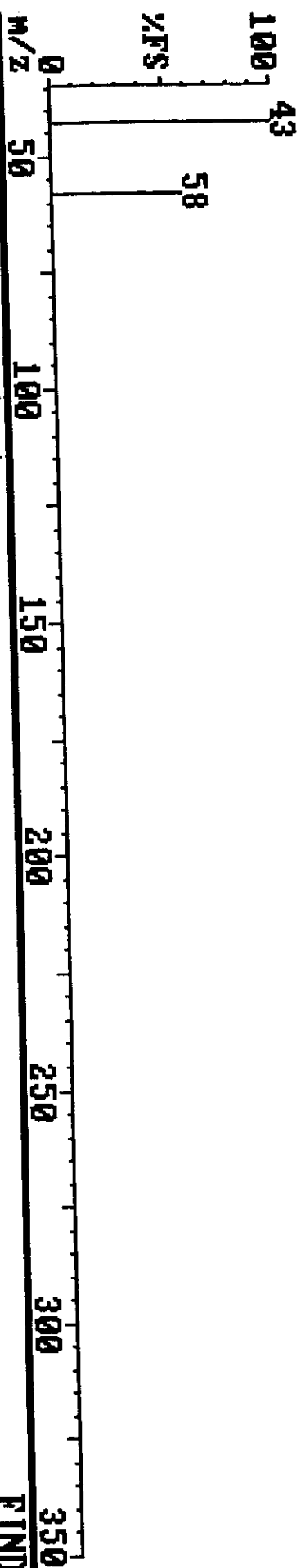
HM561 277 (2.770)

1600



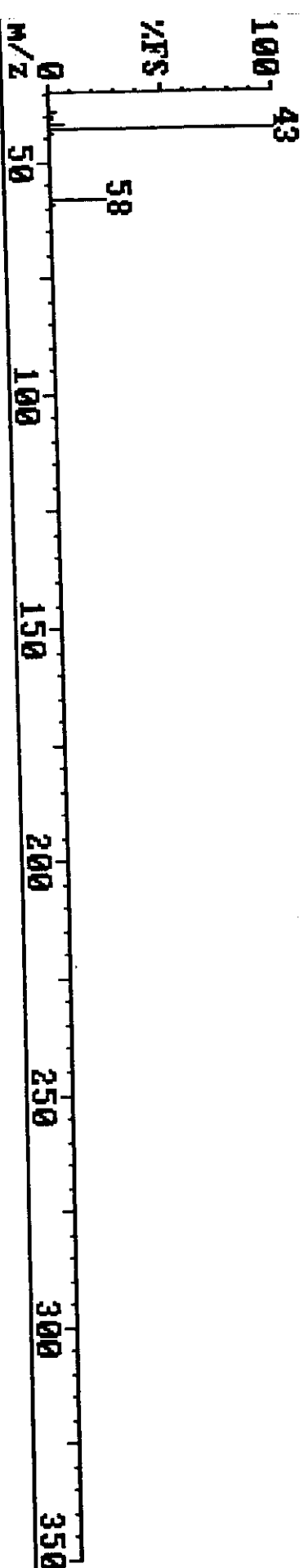
HM561 277 (2.771) REFINE

660

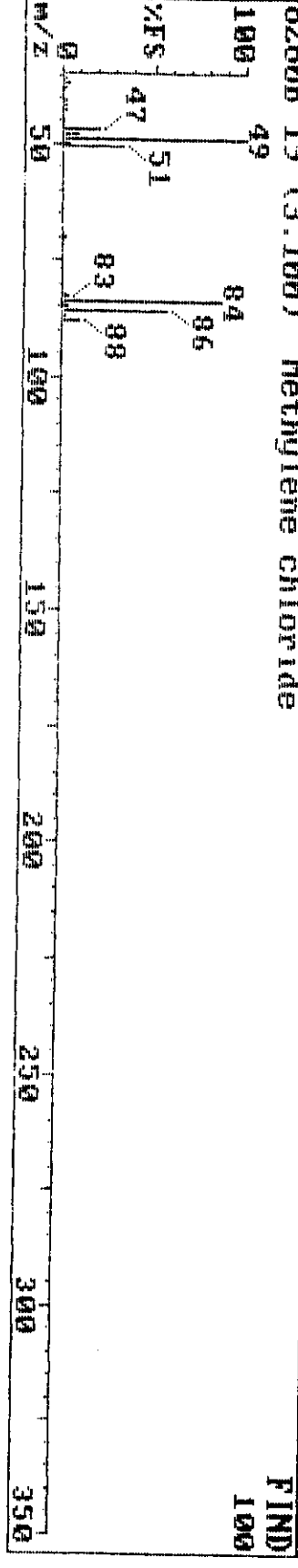
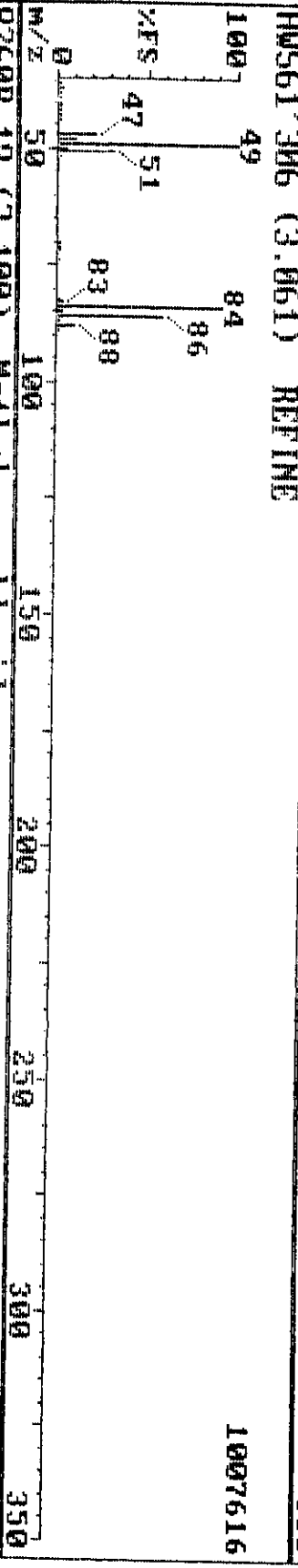
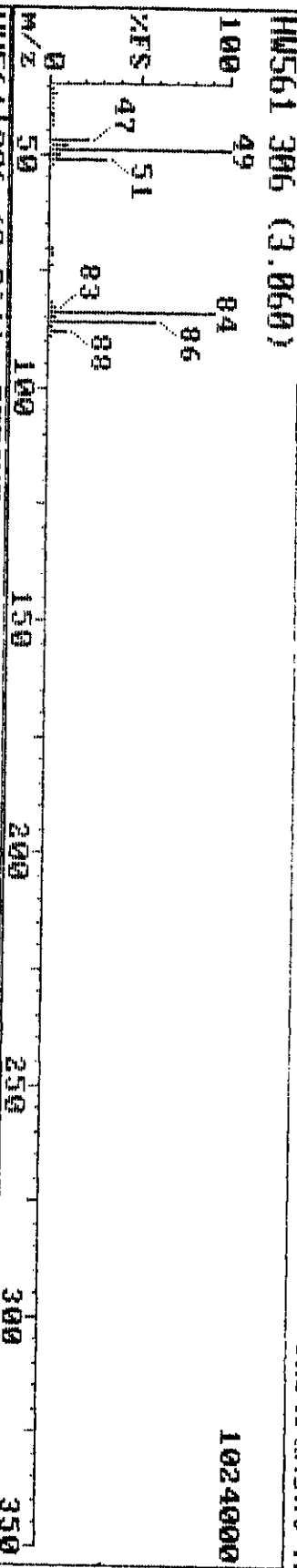


MASTER 20 (3.370) Acetone

FIND
100



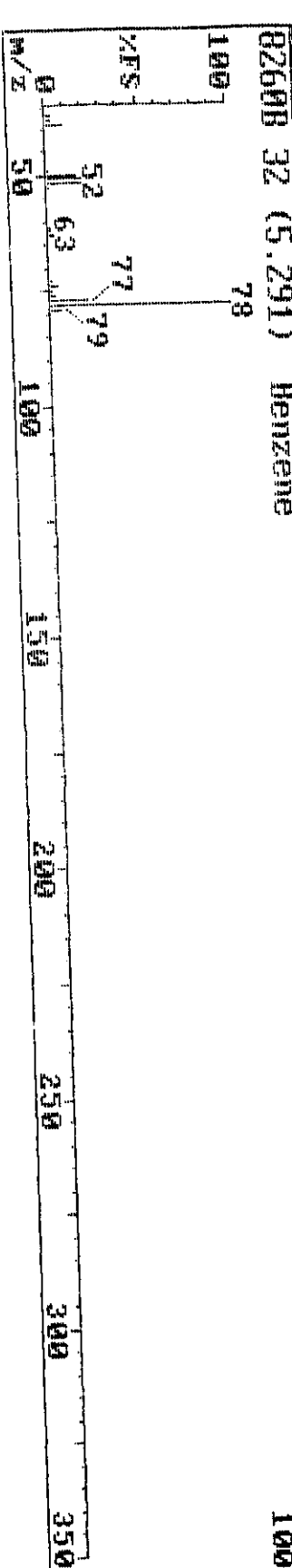
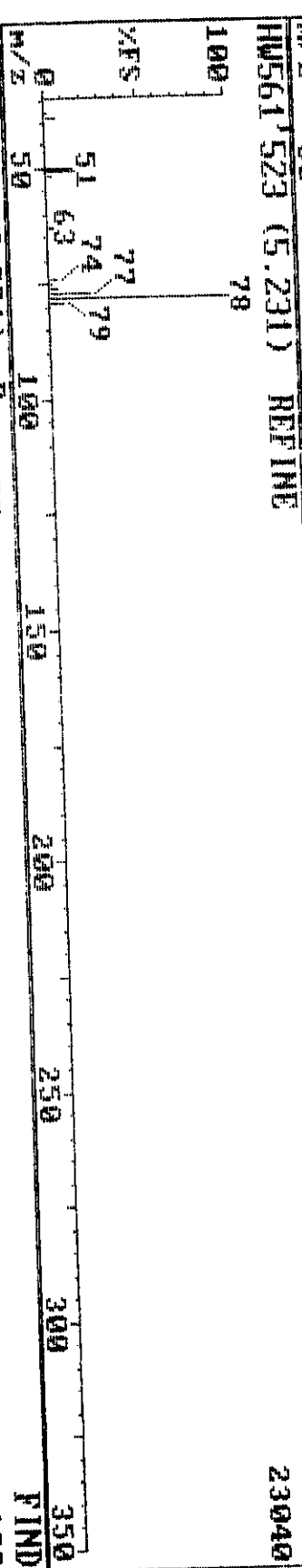
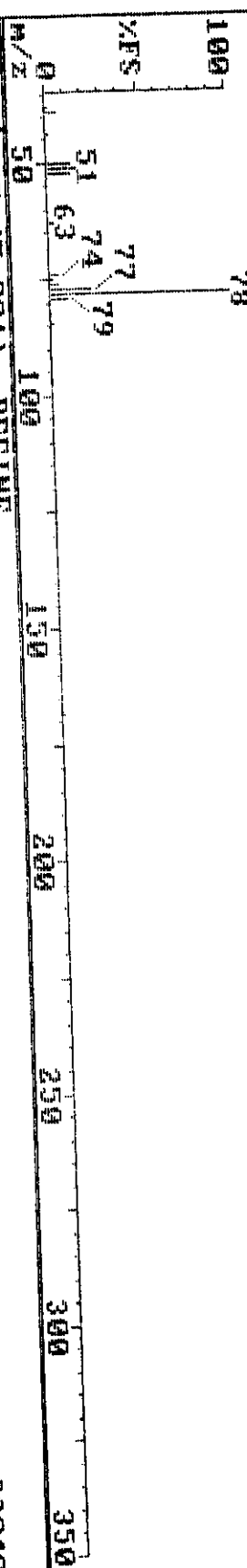
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Sample: T-V-4-2-B T/C 214-27-21B TL1#46323 Instrument H



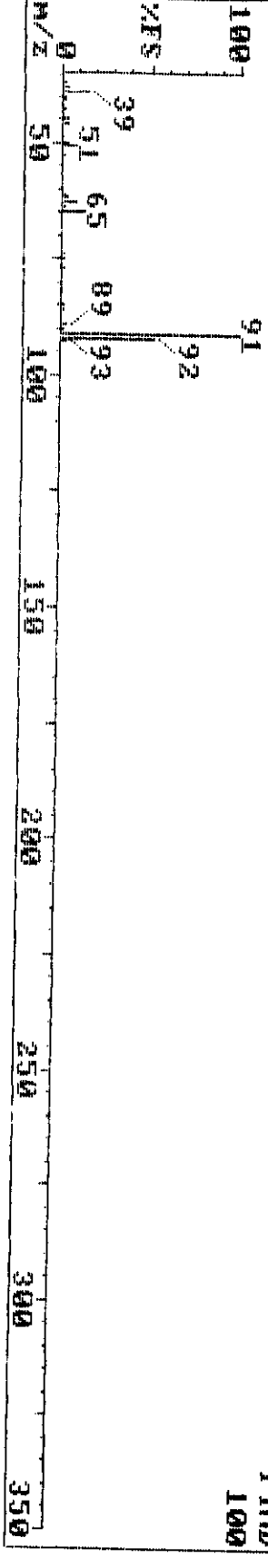
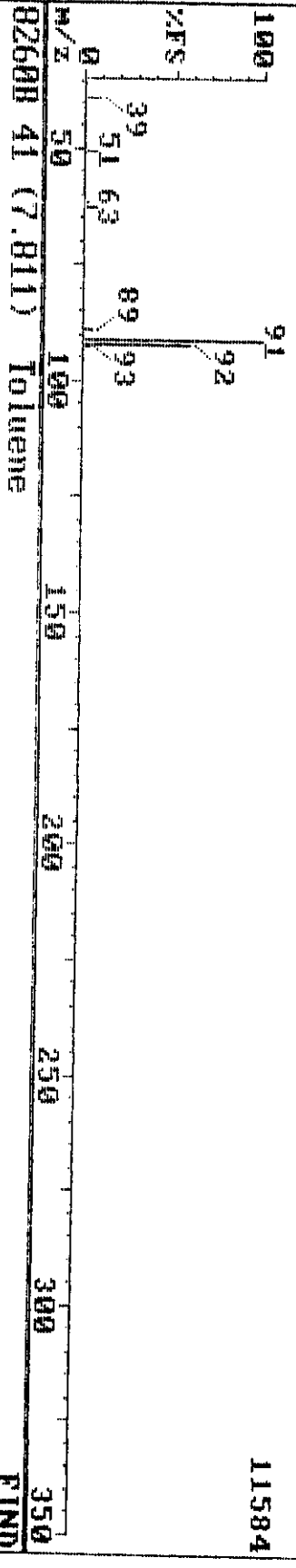
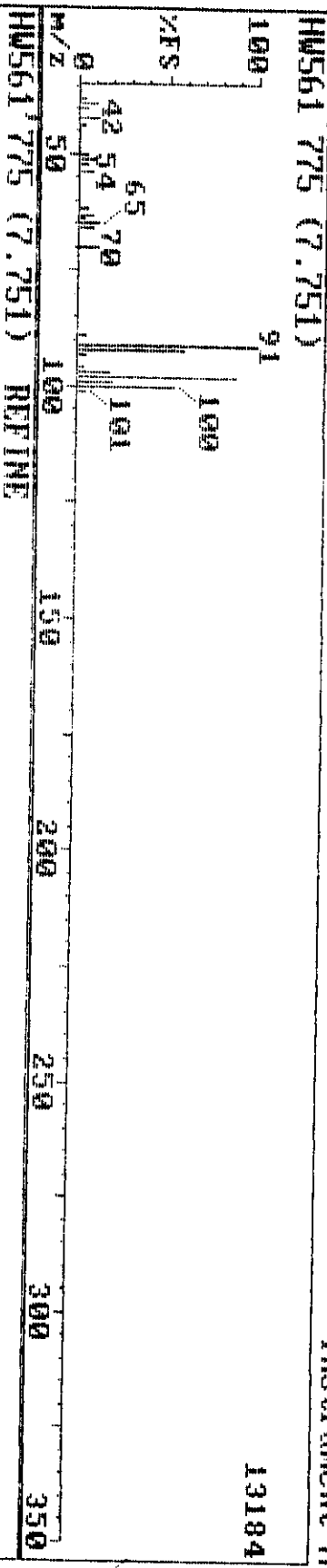
08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729 Instrument H

Sample: T-U-4-2-B T/C 214-27-21B TL1446323

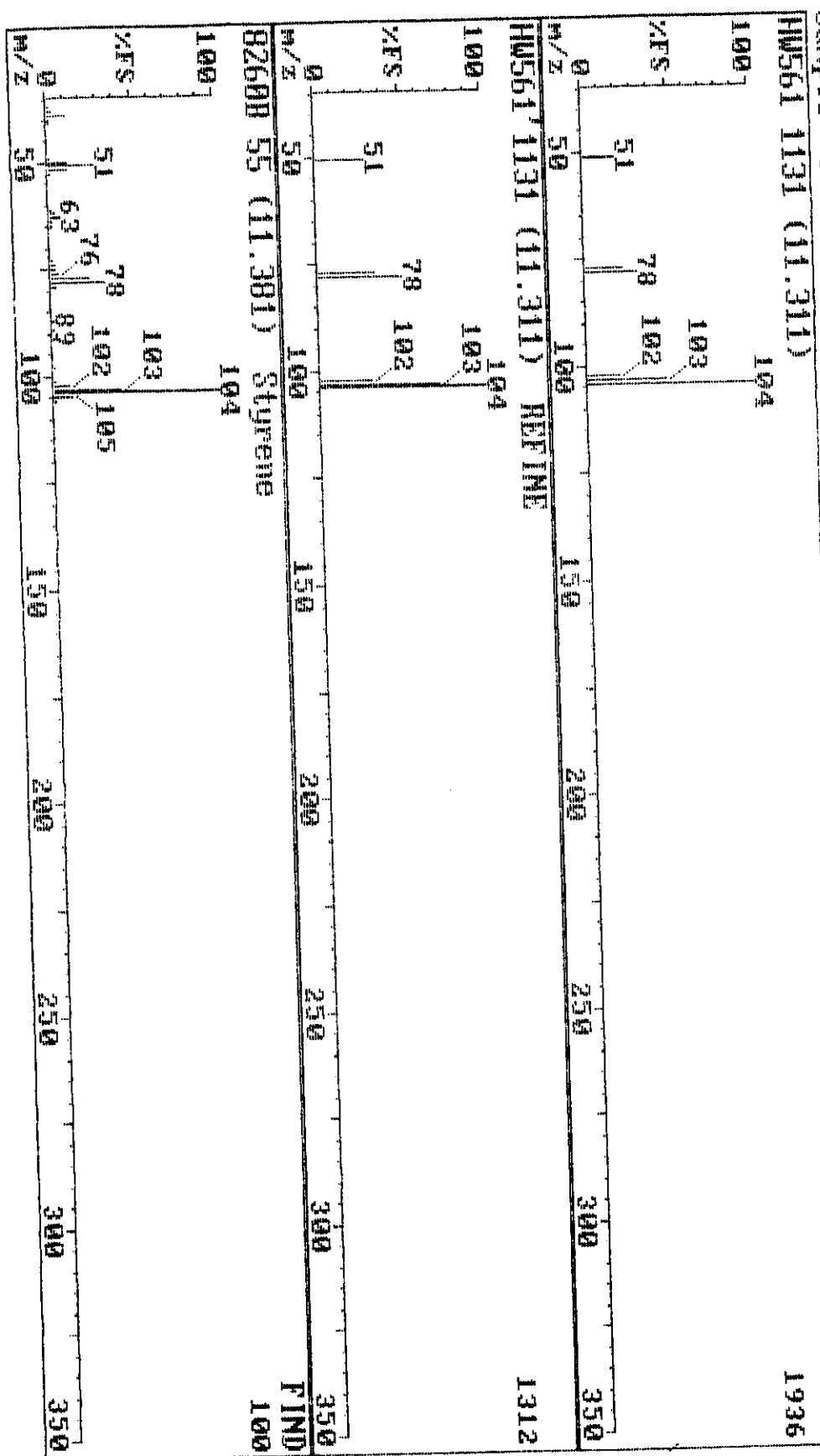
HM561 523 (5.231) 24320



08-09-98 09:46 Triangle Laboratories, Inc. (919) 544-5729
 Sample: T-U-4-2-B T/C 214-27-21H TL#46323 Instrument H



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



08-09-98 09:46

Triangle Laboratories, Inc. (919) 544-5729

Sample: T-V-4-2-B T/C 214-27-21H TLH46323

Instrument H

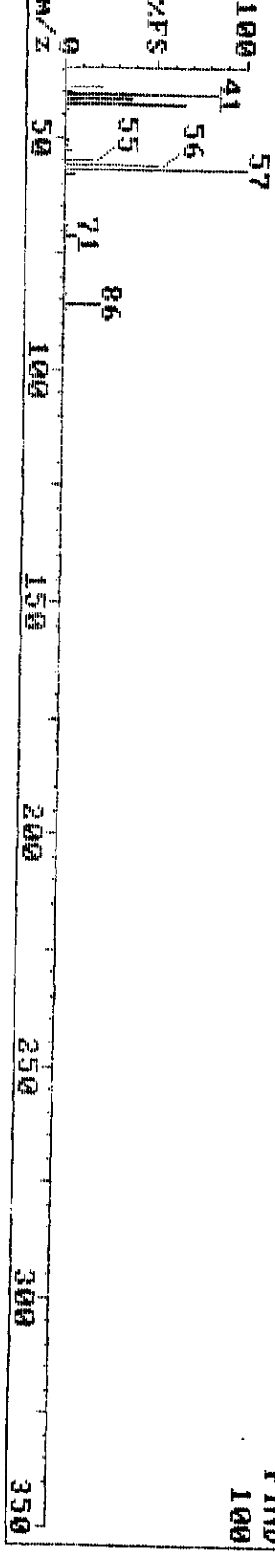
HW561 367 (3.670)



HW561 367 (3.671) REFINE



B26BX 11 (3.660) n-Hexane



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

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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

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 ₅		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 ₄		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

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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 ₈	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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Savar v3.7

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 6mC

Client Project: R012.001

Date Received: 07/29/98

Response File: ICALF824

TLI ID: 214-27-23A

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

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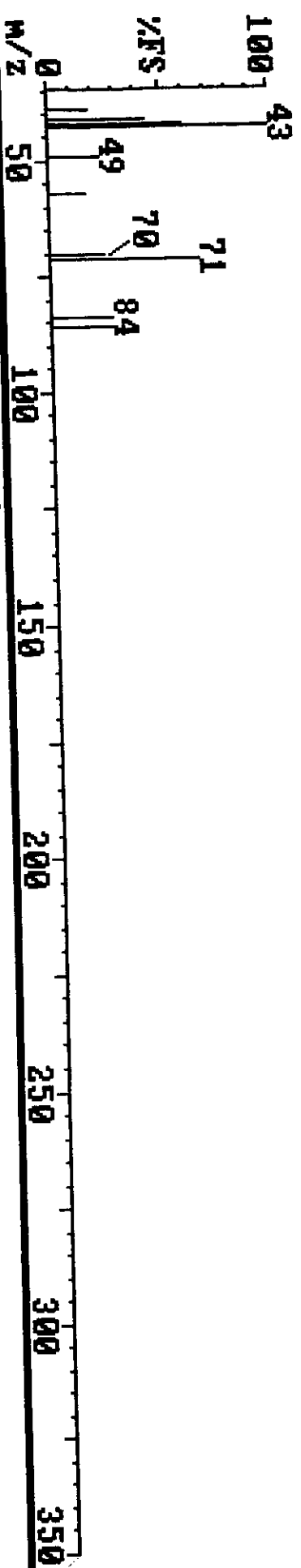
Instrument F

Sample: T-U-4-4-A,B T/TC 214-27-23A,B TL1#46323

FX983 328 (3.281)

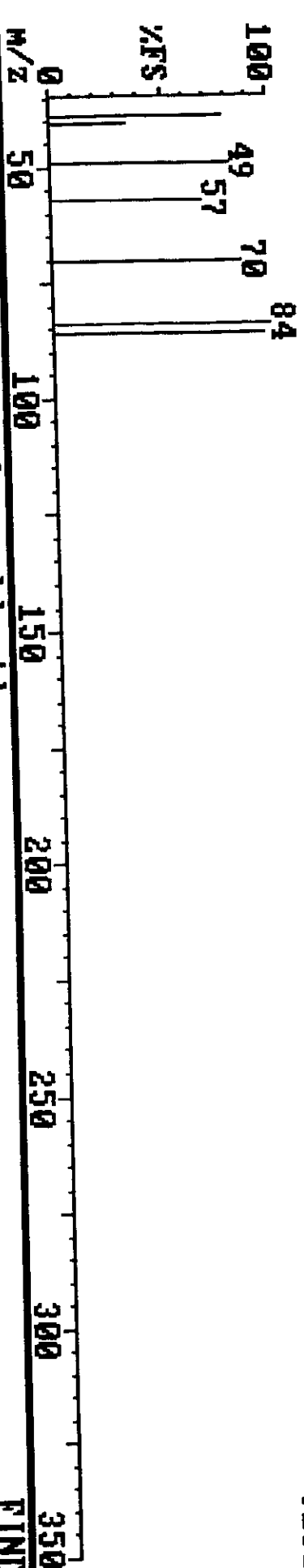
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FX983 328 (3.281) REFINE

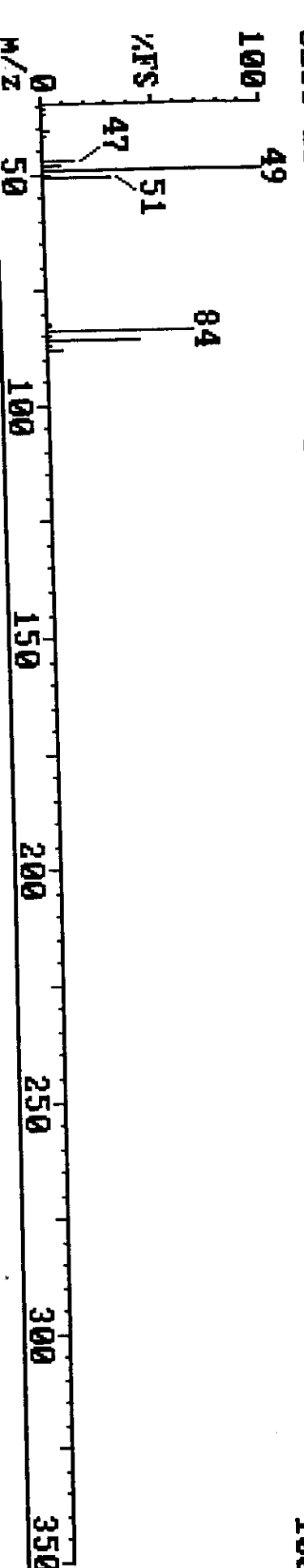
9280



8260 15 (3.550) Methylene chloride

FIND

100



492

(Faint vertical text, likely bleed-through from the reverse side)

[illegible]

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234

24-Aug-98 15:31

Triangle Laboratories, Inc.

(919) 544-5729

Sample: T-U-4-4-A, B

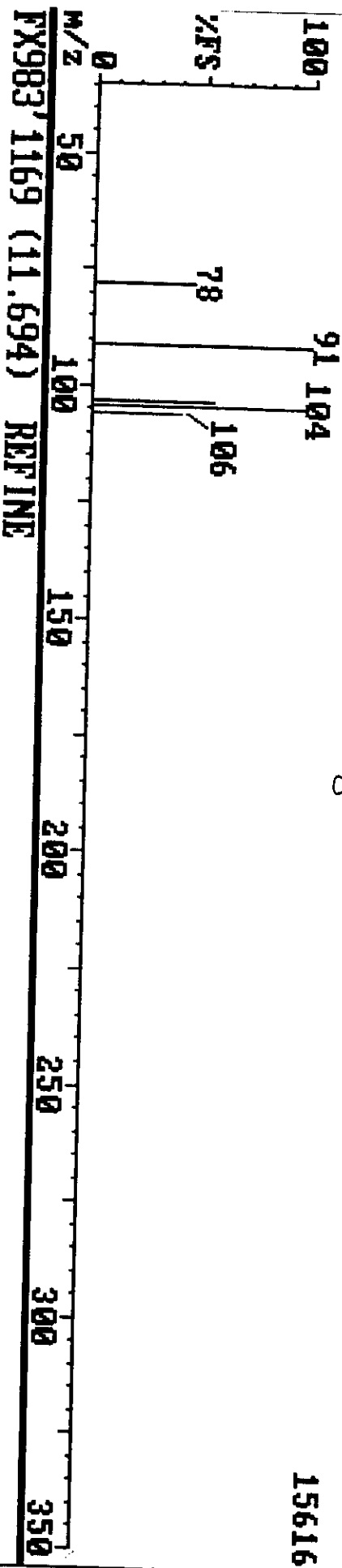
~~TTC~~ 214-27-23A, B

TL#46323

Instrument F

FX983 1169 (11.692)

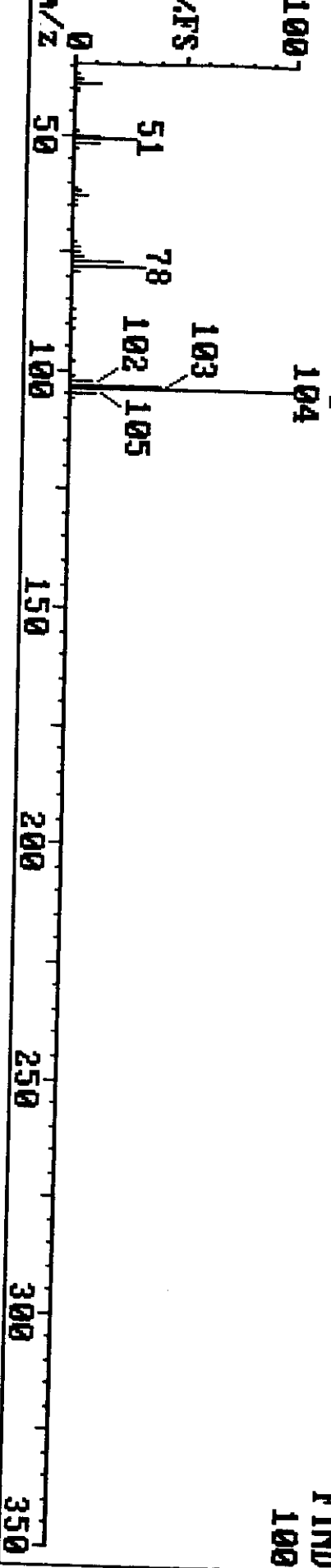
tenax only Pass 8/25/98



FX983' 1169 (11.694) REFINE



8260 44 (12.371) Styrene



FIND

100

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

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-9A,B

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		
trans-1,3-Dichloropropene		U		0.001	0.05
1,1,2-Trichloroethane		U		0.001	0.05
Chlorobenzene-d ₅		IS 3	10.36		
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		0.001	0.05
Bromoform		U		0.002	0.05
1,4-Dichlorobenzene-d ₄		IS 4	15.74		
Cumene		U		0.001	0.05
1,1,2,2-Tetrachloroethane		U		0.001	0.05

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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

Date Received: 07/29/98

Response File: ICALF821

TLI ID: 214-27-9A,B

Date Analyzed : 08/21/98

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.293	5.18	1	117
Toluene-d ₈	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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Printed: 16:48 08/25/1998

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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		
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		IS 2	6.07		
1,4-Difluorobenzene		U		0.004	0.25
Ethyl acrylate					

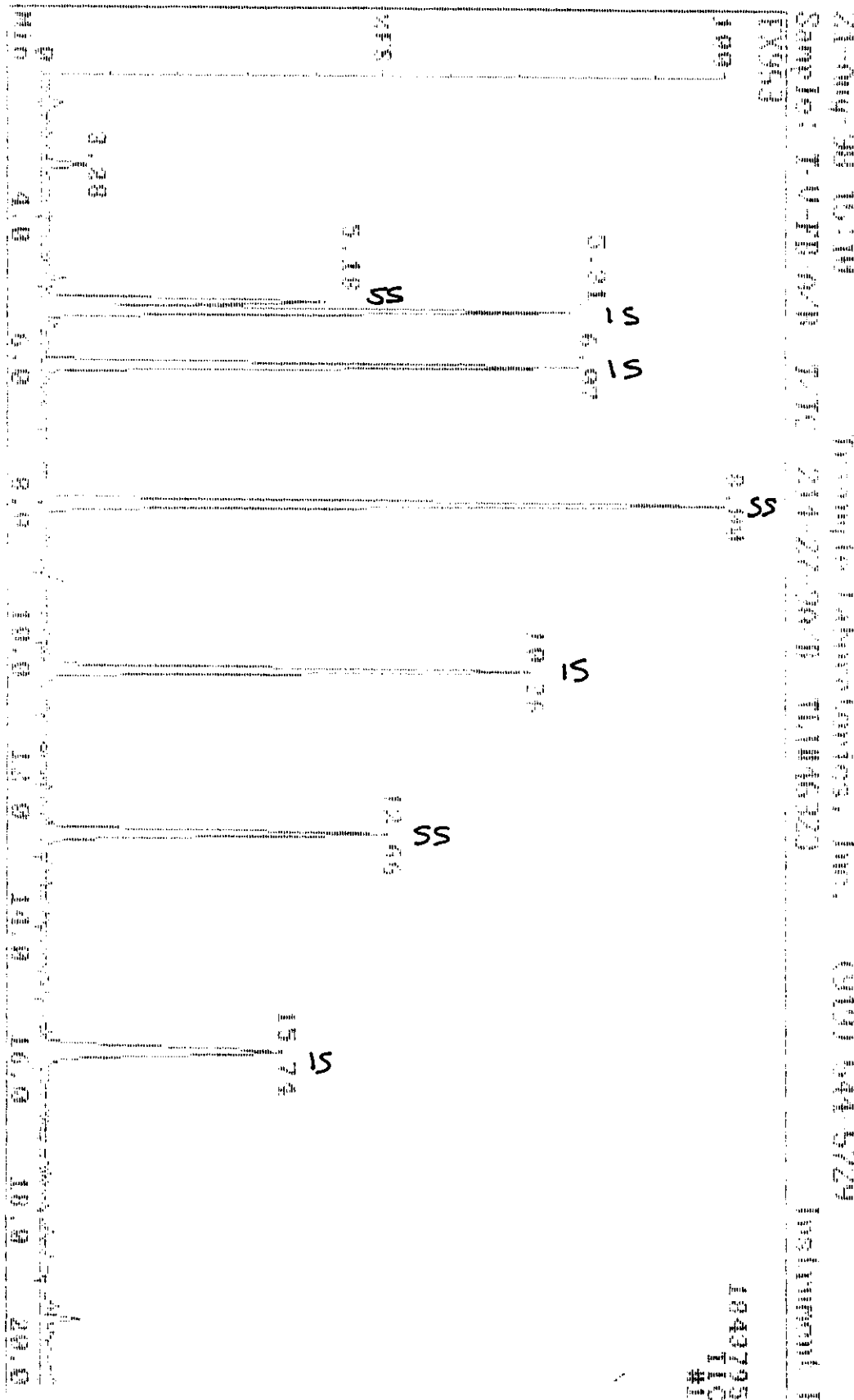
Reviewed by gab Date 8/25/98

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: 17:27 08/25/1998



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

No.	MAT	FOR	REV	Del	Unit	Flags	RT	QM	Name
1	100	85	99	-1	3726528	bv	5.301	100	108 Pentachlorobenzene
2	100	77	99	0	4217424	bv	1.071	100	112 1,1-Dichlorobenzene
3	100	90	99	0	3387624	bv	10.361	100	117 Chlorobenzene
4	100	78	99	0	1243742	bv	15.142	100	152 1,4-Dichlorobenzene
5	100	97	99	1	1563640	bv	5.181	100	117 1,1-Dichlorobenzene
6	100	93	97	0	1131630	bv	1.001	100	98 Toluene
7	100	91	94	2	1322174	bv	12.061	100	95 p-Chlorophenol
8	0	1	0	0	0	0	0.000	100	95 p-Chlorophenol
9	0	1	0	0	0	0	0.000	100	96 Chlorobenzene
10	0	0	0	0	0	0	0.000	100	92 vinyl acetate
11	0	0	0	0	0	0	0.001	100	94 p-Chlorophenol
12	0	0	0	0	0	0	0.000	100	94 p-Chlorophenol
13	0	0	0	0	0	0	0.000	100	101 1,1-Dichloroethane
14	0	0	0	0	0	0	0.000	100	96 p-Chlorophenol
15	0	0	0	0	0	0	0.000	100	102 1,1-Dichloroethane
16	0	0	0	0	0	0	0.000	100	101 1,1-Dichloroethane
17	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
18	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
19	100	0	0	0	1211110	bv	1.001	100	91 p-Chlorophenol
20	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
21	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
22	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
23	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
24	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
25	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
26	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
27	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
28	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
29	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
30	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
31	0	0	0	0	0	0	0.000	100	91 p-Chlorophenol
32	96	87	99	0	1156480	bv	2.121	100	92 1,1-Dichloroethane
33	0	0	0	0	0	0	0.000	100	100 p-Chlorophenol
34	0	0	0	0	0	0	0.000	100	93 1,2-Dichloroethane
35	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
36	0	0	0	0	0	0	0.000	100	94 p-Chlorophenol
37	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
38	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
39	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
40	0	0	0	0	0	0	0.000	100	93 p-Chlorophenol
41	81	50	75	2	338764	A	2.031	100	92 1,1-Dichloroethane
42	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
43	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
44	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
45	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
46	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
47	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
48	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
49	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane
50	0	0	0	0	0	0	0.000	100	92 1,1-Dichloroethane

Data Review: PAR
Date: 8/24/98

No	Hit	FOR	NEW	Delta	Project 2 Flags	RT	QM Name
51	0	0	0	0	0	0.000	101 1,1,1,1-tetrachlorobenzene
52	0	0	0	0	0	0.000	102 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 Toluene
56	0	0	0	0	0	0.000	173 Bromobenzene
57	0	0	0	0	0	0.000	105 Camphene
58	0	0	0	0	0	0.000	183 1,1,1,2,2-pentachlorobenzene
59	0	0	0	0	0	0.000	156 Bismethylnaphthalene
60	0	0	0	0	0	0.000	175 1,2,3-trichlorobenzene
61	0	0	0	0	0	0.000	110 m-Propylnaphthalene
62	0	0	0	0	0	0.000	175 1,4-dichlorobenzene
63	0	0	0	0	0	0.000	126 2-Methylnaphthalene
64	0	0	0	0	0	0.000	112 4-Methylnaphthalene
65	0	0	0	0	0	0.000	108 1,2,3-trimethylnaphthalene
66	0	0	0	0	0	0.000	113 6-Methylnaphthalene
67	0	0	0	0	0	0.000	102 1,2-dichlorobenzene
68	54	11	54	0	54% Hs	11.577	107 1,4-Dichlorobenzene
69	0	0	0	0	0	0.000	117 n-Heptane
70	0	0	0	0	0	0.000	102 1,2-dichlorobenzene
71	0	0	0	0	0	0.000	112 4-Methylnaphthalene
72	1	1	0	0	0	0.000	101 1,1,1,1-tetrachlorobenzene
73	65	14	65	0	65% Hs	14.577	111 1,4-Dichlorobenzene
74	0	0	0	0	0	0.000	153 1,2-Dichlorobenzene
75	0	0	0	0	0	0.000	173 1,2,3-trichlorobenzene
76	21	52	21	0	67% Hs	17.577	102 1,2-dichlorobenzene
77	91	50	91	0	75% Hs	19.577	173 1,2,3-trichlorobenzene
78	0	0	0	0	0	0.000	173 1,2,3-trichlorobenzene
79	61	41	62	0	1.5% Hs	19.577	180 1,2,3-trichlorobenzene

QUAN DB : EX993

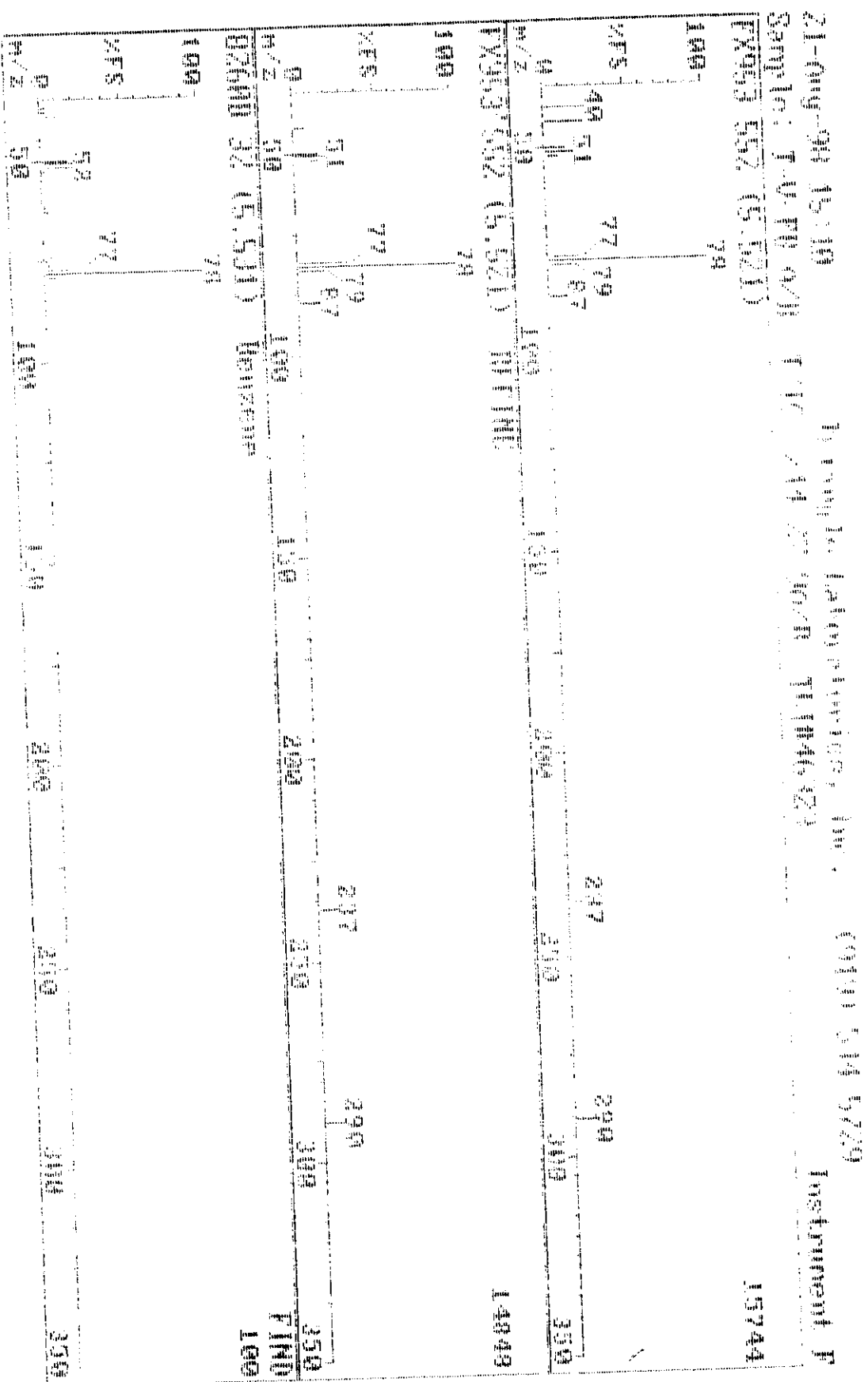
BASE QUAN

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01.17

No	MAF	FOR	REV	DELTA	Acid	W/F	Flags	RT	Qm	name
1	100	35	22	1	3396428	bw		5.301	153	pentafluorobenzene
2	100	27	22	0	4217424	bw		6.071	114	1,4-difluorobenzene
3	100	25	24	0	1071624	bw		10.561	117	chlorobenzonitrile
4	100	73	28	0	1243792	bw		15.742	152	1,4-dichlorobenzene-d4
5	100	27	29	0	1562540	bw		5.181	115	dibromofluoromethane
6	100	95	27	0	5131680	bw		8.001	98	Toluene-d8
7	100	91	24	0	1522176	bw		12.661	95	4-bromofluorobenzene
8	0	0	0	0	0			0.000	120	1,3-butadiene
9	0	0	0	0	0			0.000	106	Vinyl bromide
10	0	0	0	0	0			0.000	73	MTBE
11	0	0	0	0	0			0.000	57	n-hexane
12	0	0	0	0	0			0.000	42	1,2-epoxybutane
13	0	0	0	0	0			0.000	37	iso-octane
14	0	0	0	0	0			0.000	25	2-butyne

70 RUB
70 RUB
70 RUB



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: / /

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	0.003	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 ₃		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 ₄		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

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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

Surrogate Summary	Amount (ng)	RT	IS Ref	%REC
Dibromofluoromethane	0.247	4.92	1	99
Toluene-d ₈	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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Printed: 16:11 08/10/1998

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		
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

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516

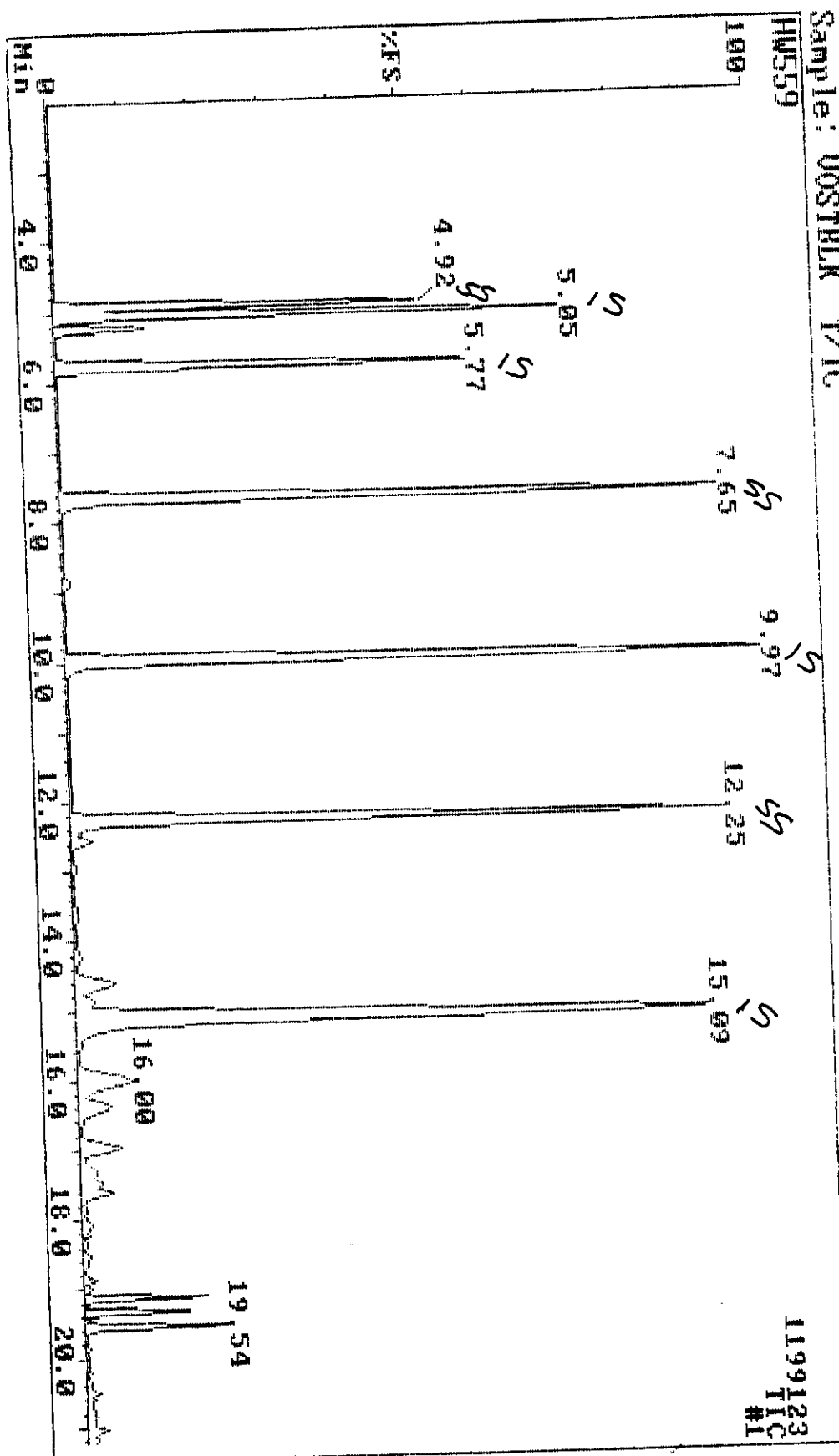
313

08-09-98 08:28

Sample: UOSTBLK T/TC

Triangle Laboratories, Inc. (919) 544-5729

Instrument H



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
* 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	64	47	60	2	6668	bb	2.59	142	Iodomethane -
✓ 16	0	0	0	0	0		0.00	76	Carbon disulfide -
✓ 17	59	32	33	8	3524	A	2.71	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 -
* 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	52	45	45	3	1483	bb	4.53	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	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
* 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	40	3	62	1	16648	bb	7.56	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
* 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

Data Review: GAB

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	47	44	44	6	864	bb	12.63	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	12	12	12	4	816	bb	12.63	75 trans-1,4-Dichloro-2-but
X63	0	0	0	0	0		0.00	126 2-Chlorotoluene
X64	45	30	34	8	1280	bb	13.21	126 4-Chlorotoluene
X65	65	57	57	4	5100	A	13.32	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	193788	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	89	71	71	1	3563 bv	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

Data Review: *PAB*
Date: 8/10/98

08-09-98 08:28
Sample: VOSTBLK T/TC

Triangle Laboratories, Inc. (919) 544-5729
Instrument H

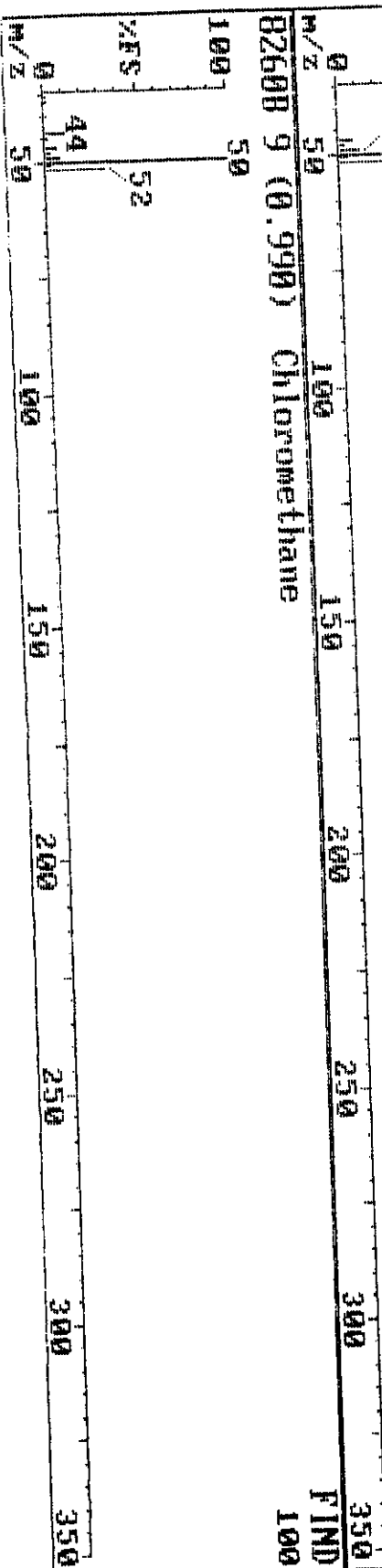
HM559 97 (0.970)

11456



11136

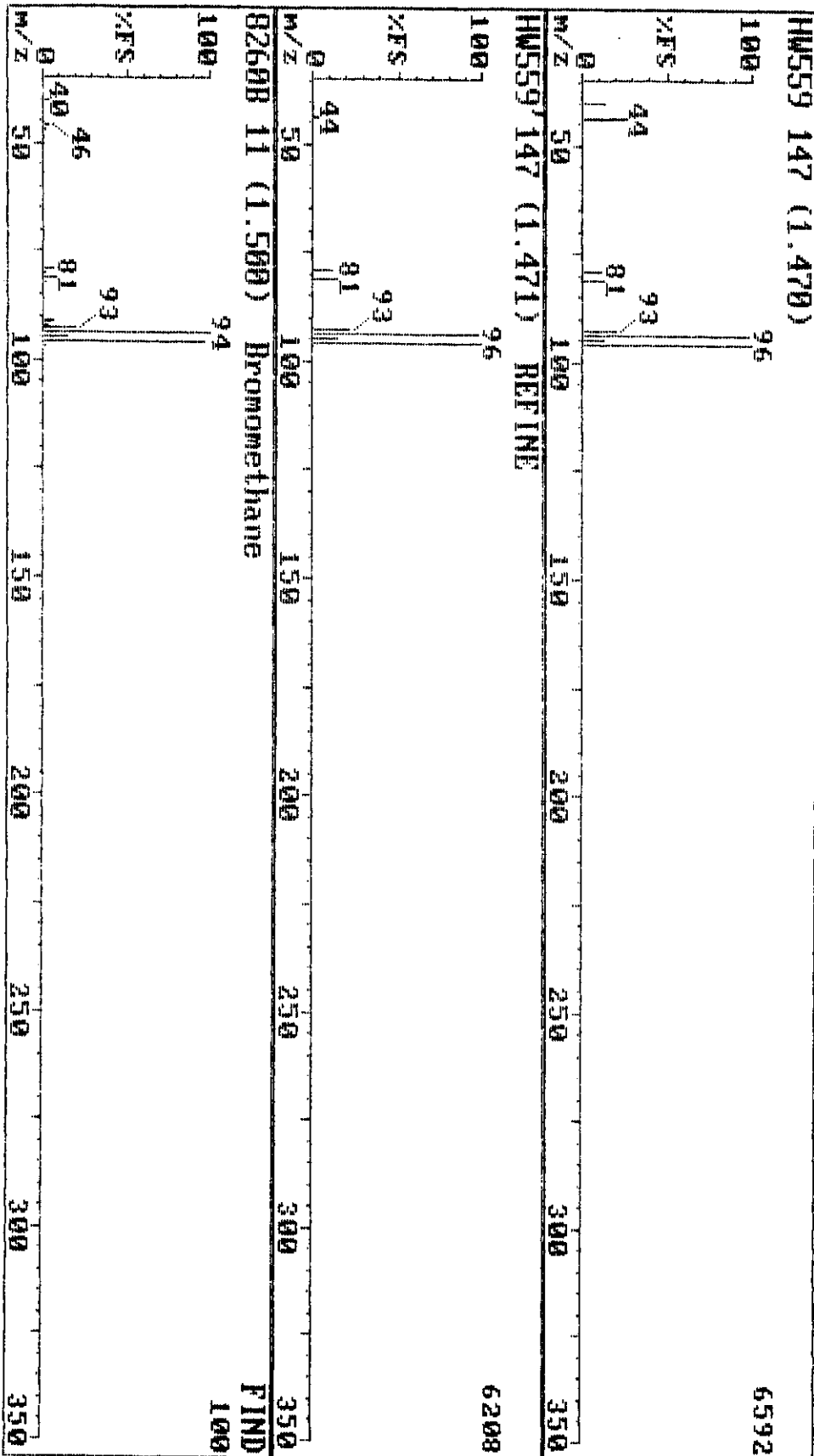
B2600 9 (0.990) Chloromethane



FIND

100

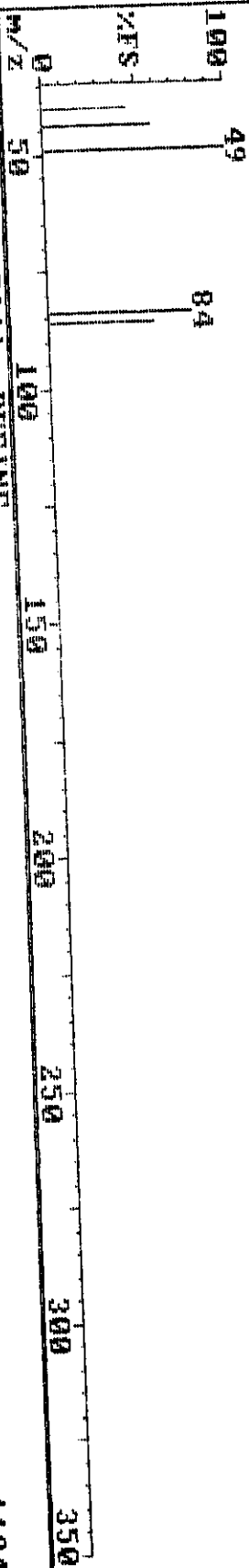
08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729
Sample: UOSTBLK T/TC Instrument H



08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729 Instrument H
 Sample: UOSTBLK T/TC

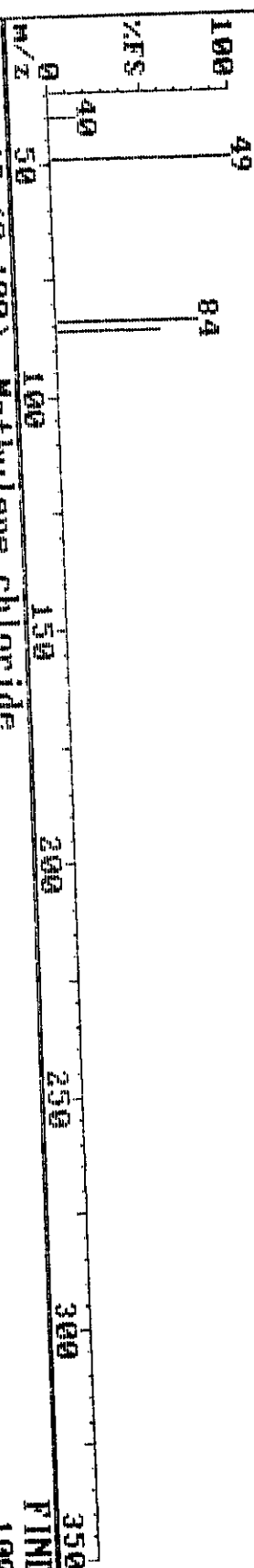
HM559 306 (3.060)

1184



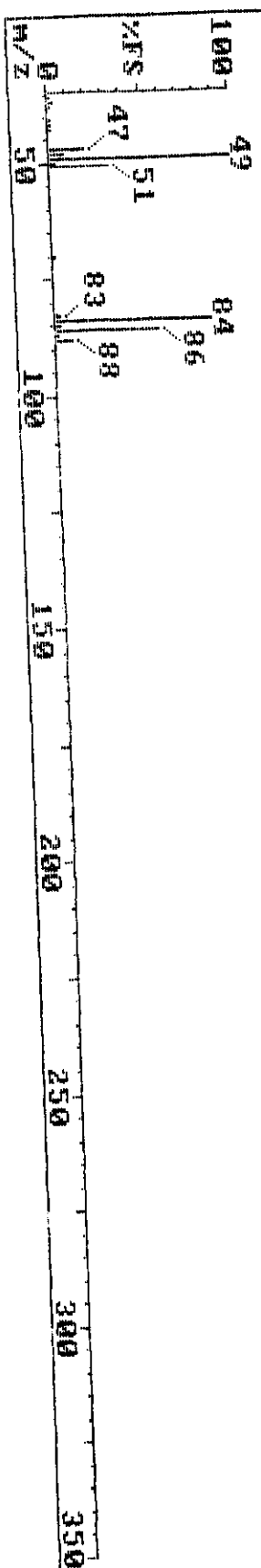
HM559 306 (3.061) REFINE

1184

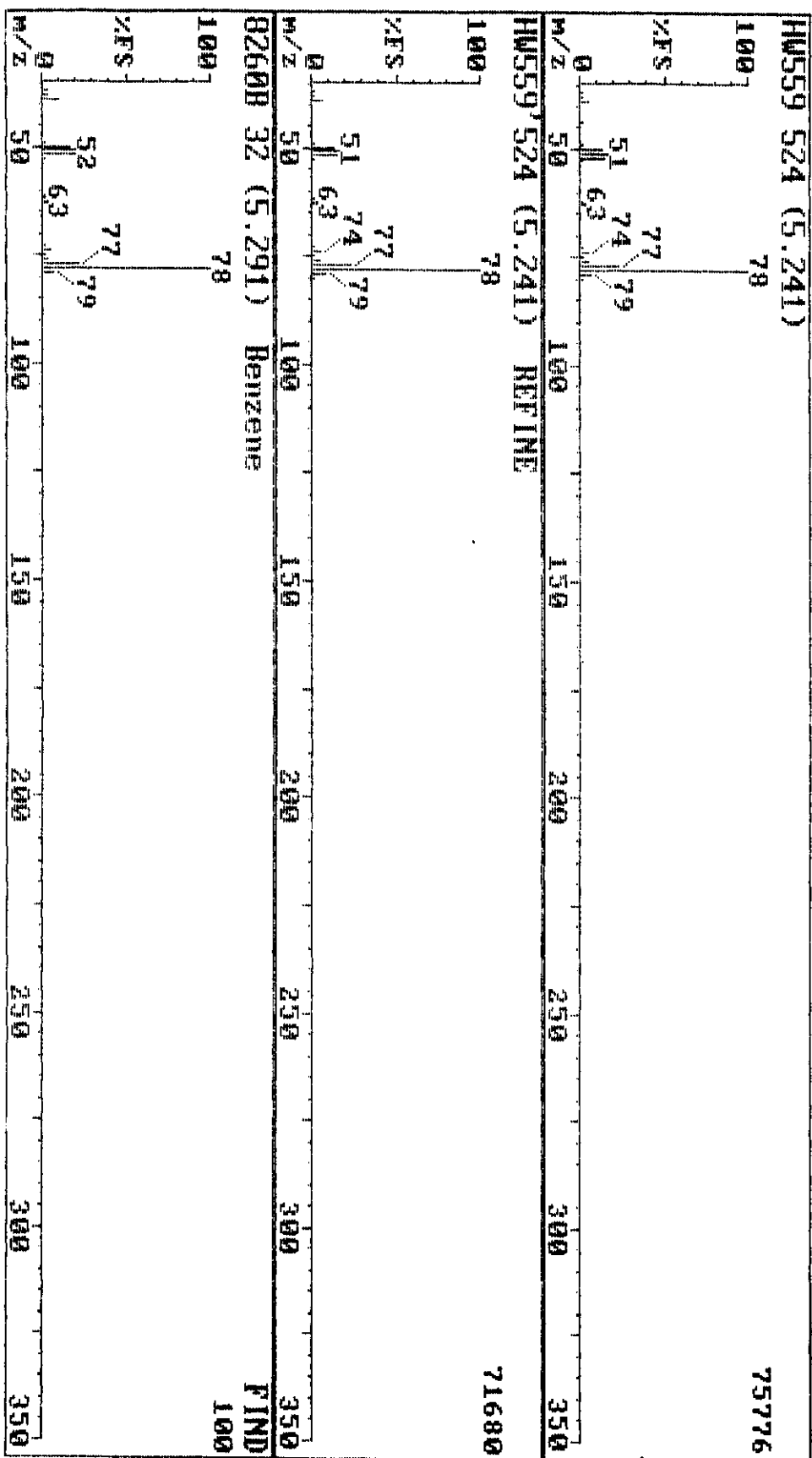


82608 19 (3.100) Methylene chloride

100



08-09-98 08:28 Triangle Laboratories, Inc. (919) 544-5729
Sample: UOSTBLK T/TC Instrument H



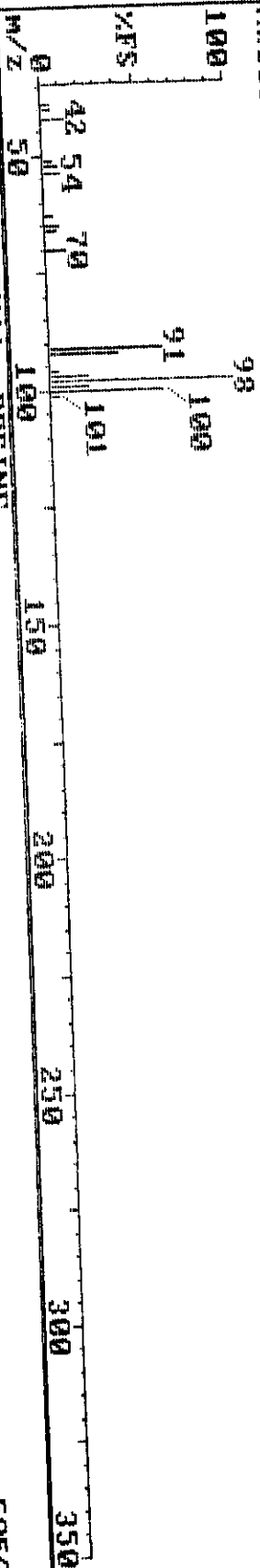
08-09-98 08:28

Sample: UOSTBLK T/TC

Triangle Laboratories, Inc. (919) 544-5729 Instrument H

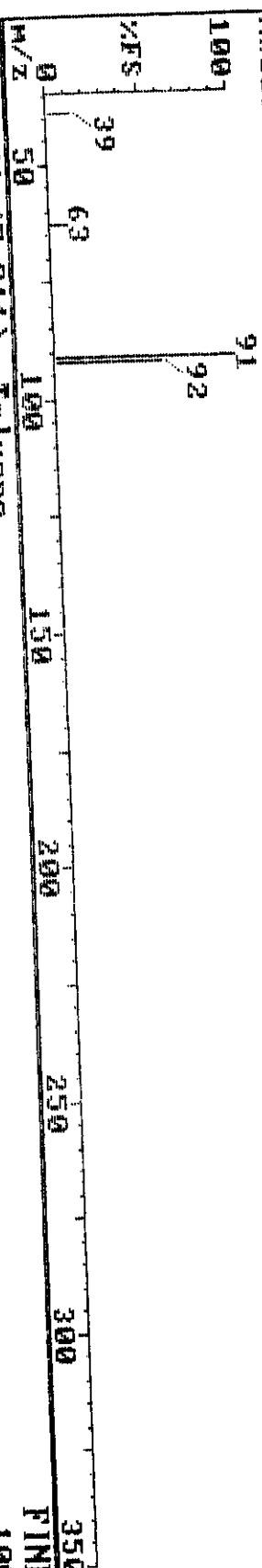
HM559 775 (7.751)

9536



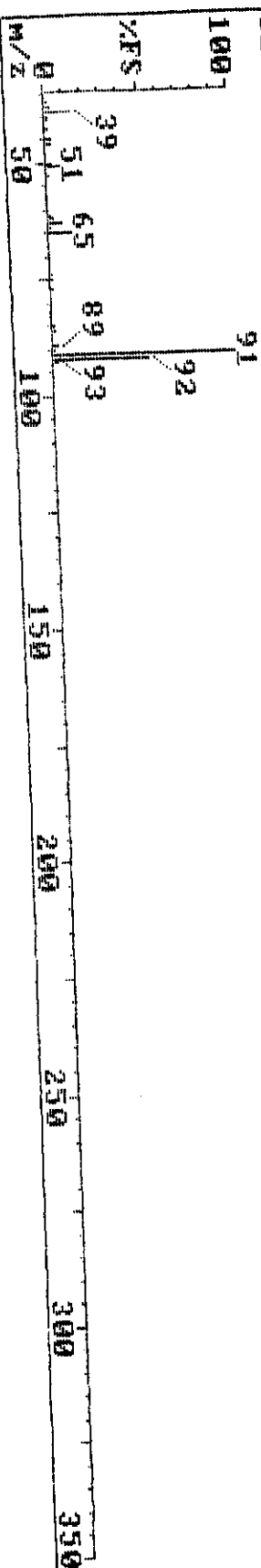
HM559 775 (7.751) REFINE

5056



B260B 41 (7.811) Toluene

FIND 100



08-09-98 08:28

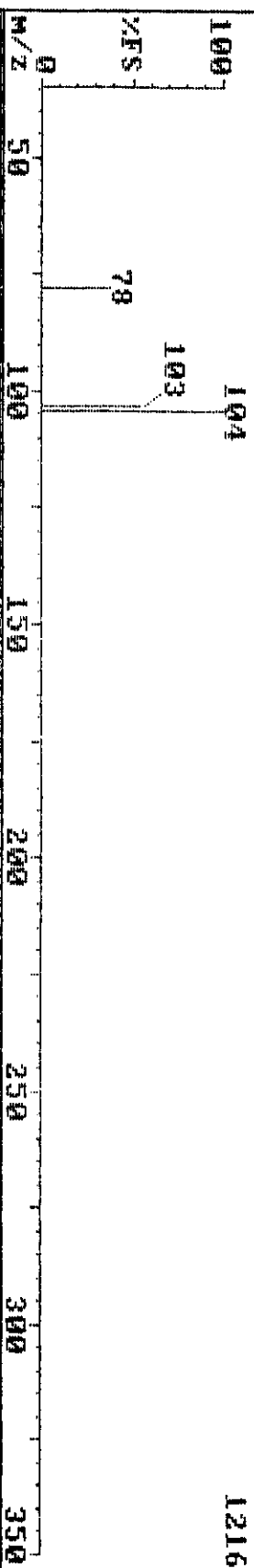
Triangle Laboratories, Inc.

(919) 544-5729

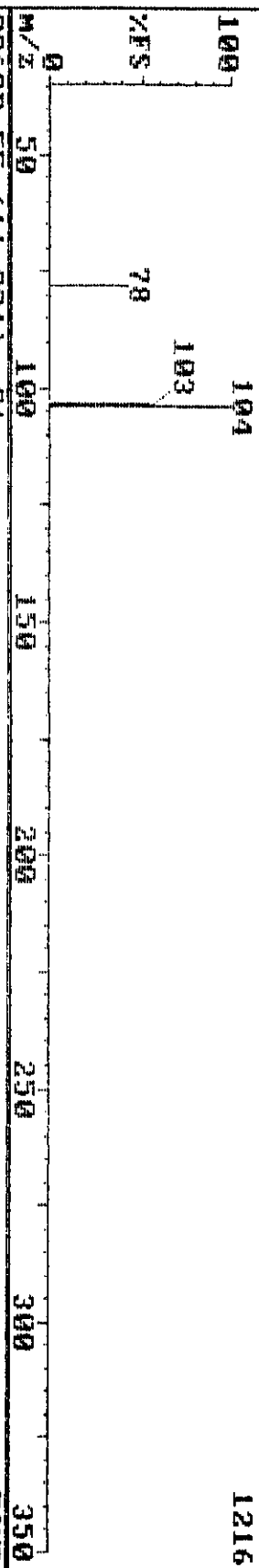
Sample: VOSTBLK T/TC

Instrument H

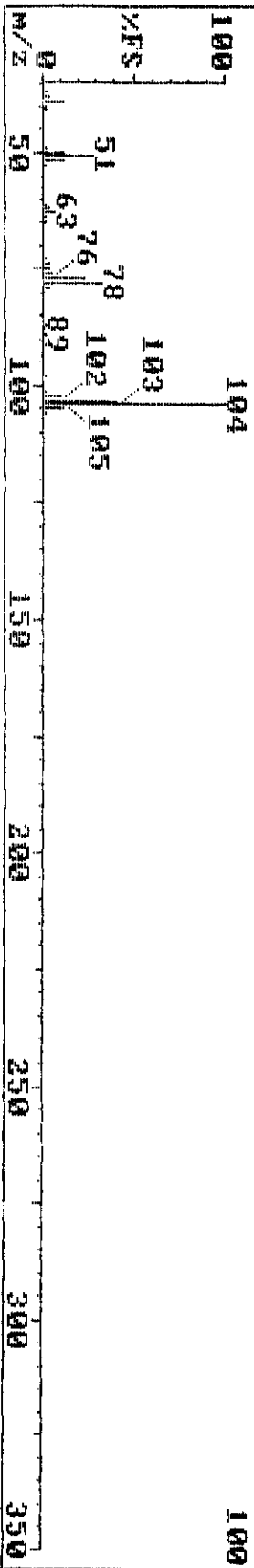
HM559 1132 (11.321)



HM559 1132 (11.321) REFINE



82608 55 (11.381) Styrene



FIND

100

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

Savar v3.7

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Printed: 12:31 08/25/1998

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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

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 ₅		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 ₄		IS 4 Low	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

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Printed: 12:31 08/25/1998

528

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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 ₈	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

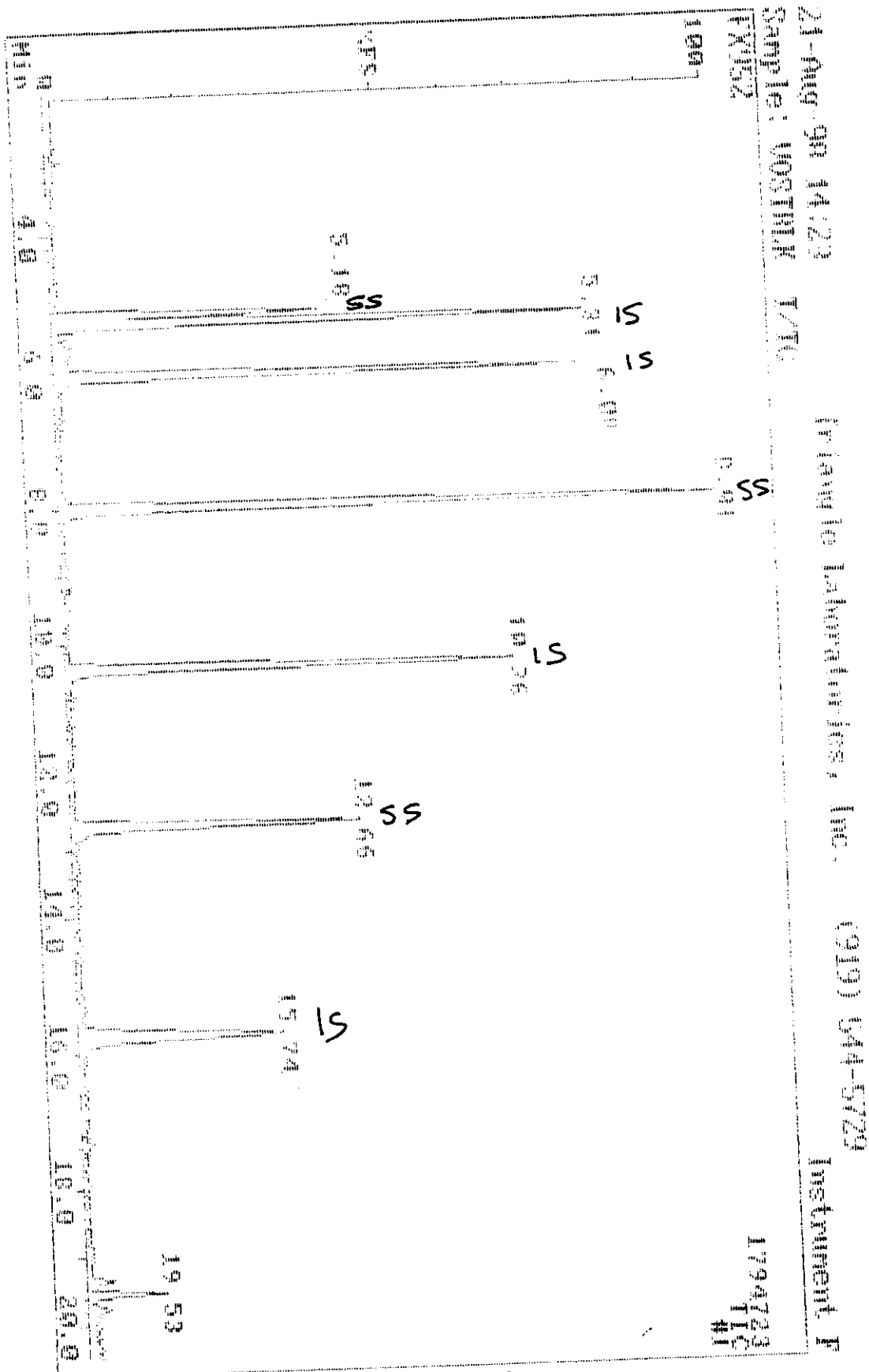
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Data Review: PAB
 Date: 8/24/98

NO.	NAME	CONC	UNIT	NO.	NAME	CONC	UNIT
1	100	15	22	0	10105000	bw	0.000
2	100	27	29	0	1114114	bw	0.000
3	100	25	25	0	13011300	bw	0.000
4	100	22	27	0	1412212	bw	0.000
5	100	27	29	0	15000500	bw	0.000
6	100	27	26	0	1907004	bw	0.000
7	100	21	27	0	1909000	bw	0.000
8	0	0	0	0	0		0.000
9	0	0	0	0	0		0.000
10	0	0	0	0	0		0.000
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107	0	0	0	0	0		0.000
108	0	0	0	0	0		0.000
109	0	0	0	0	0		0.000
110	0	0	0	0	0		0.000
111	0	0	0	0	0		0.000
112	0	0	0	0	0		0.000
113	0	0	0	0	0		0.000
114	0	0	0	0	0		0.000
115	0	0	0	0	0		0.000
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125	0	0	0	0	0		0.000
126	0	0	0	0	0		0.000
127	0	0	0	0	0		0.000
128	0	0	0	0	0		0.000
129	0	0	0	0	0		0.000
130	0	0	0	0	0		0.000
131	0	0	0	0	0		0.000
132	0	0	0	0	0		0.000
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134	0	0	0	0	0		0.000
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137	0	0	0	0	0		0.000
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139	0	0	0	0	0		0.000
140	0	0	0	0	0		0.000
141	0	0	0	0	0		0.000
142	0	0	0	0	0		0.000
143	0	0	0	0	0		0.000
144	0	0	0	0	0		0.000
145	0	0	0	0	0		0.000
146	0	0	0	0	0		0.000
147	0	0	0	0	0		0.000
148	0	0	0	0	0		0.000
149	0	0	0	0	0		0.000
150	0	0	0	0	0		0.000
151	0	0	0	0	0		0.000
152	0	0	0	0	0		0.000
153	0	0	0	0	0		0.000
154	0	0	0	0	0		0.000
155	0	0	0	0	0		0.000
156	0	0	0	0	0		0.000
157	0	0	0	0	0		0.000
158	0	0	0	0	0		0.000
159	0	0	0	0	0		0.000
160	0	0	0	0	0		0.000
161	0	0	0	0	0		0.000
162	0	0	0	0	0		0.000
163	0	0	0	0	0		0.000
164	0	0	0	0	0		0.000
165	0	0	0	0	0		0.000
166	0	0	0	0	0		0.000
167	0	0	0	0	0		0.000
168	0	0	0	0	0		0.000
169	0	0	0	0	0		0.000
170	0	0	0	0	0		0.000
171	0	0	0	0	0		0.000
172	0	0	0	0	0		0.000
173	0	0	0	0	0		0.000
174	0	0	0	0	0		0.000
175	0	0	0	0	0		0.000
176	0	0	0	0	0		0.000
177	0	0	0	0	0		0.000
178	0	0	0	0	0		0.000
179	0	0	0	0	0		0.000
180	0	0	0	0	0		0.000
181	0	0	0	0	0		0.000
182	0	0	0	0	0		0.000
183	0	0	0	0	0		0.000
184	0	0	0	0	0		0.000
185	0	0	0	0	0		0.000
186	0	0	0	0	0		0.000
187	0	0	0	0	0		0.000
188	0	0	0	0	0		0.000
189	0	0	0	0	0		0.000
190	0	0	0	0	0		0.000
191	0	0	0	0	0		0.000
192	0	0	0	0	0		0.000
193	0	0	0	0	0		0.000
194	0	0	0	0	0		0.000
195	0	0	0	0	0		0.000
196	0	0	0	0	0		0.000
197	0	0	0	0	0		0.000
198	0	0	0	0	0		0.000
199	0	0	0	0	0		0.000
200	0	0	0	0	0		0.000

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

No.	HAT FOR REF. DATA					Area P. FLAGS	RT	QID Name
51	0	0	0	0	0		0.000	151 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	175 Bromoform
57	0	0	0	0	0		0.000	105 Chloroac
58	0	0	0	0	0		0.000	33 1,1,2,2-Tetrachloroethane
59	0	0	0	0	0		0.000	136 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 Chloro-1,4-Dichloro-2-benzen
63	0	0	0	0	0		0.000	136 2-Chlorotoluene
64	0	0	0	0	0		0.000	128 n-Butylbenzene
65	0	0	0	0	0		0.000	105 n-Propylbenzene
66	0	0	0	0	0		0.000	112 n-Butylbenzene
67	0	0	0	0	0		0.000	105 n-Propylbenzene
68	58	17	49	1	0.040 A		11.567	145 n-Propylbenzene
69	0	0	0	0	0		0.000	112 n-Butylbenzene
70	10	25	57	5	1.297 A		13.507	145 n-Propylbenzene
71	0	0	0	0	0		0.000	112 n-Butylbenzene
72	0	0	0	0	0		0.000	112 n-Butylbenzene
73	44	48	61	2	10.020 A		12.567	145 n-Propylbenzene
74	0	0	0	0	0		0.000	112 n-Butylbenzene
75	0	0	0	0	0		0.000	112 n-Butylbenzene
76	25	67	83	1	10.667 A		19.542	105 1,2,3-Trichlorobenzene
77	31	66	84	2	10.607 A		19.532	105 1,2,3-Trichlorobenzene
78	50	80	91	0	19.590 A		19.579	105 1,2,3-Trichlorobenzene
79	71	49	75	3	10.790 A		19.551	105 1,2,3-Trichlorobenzene

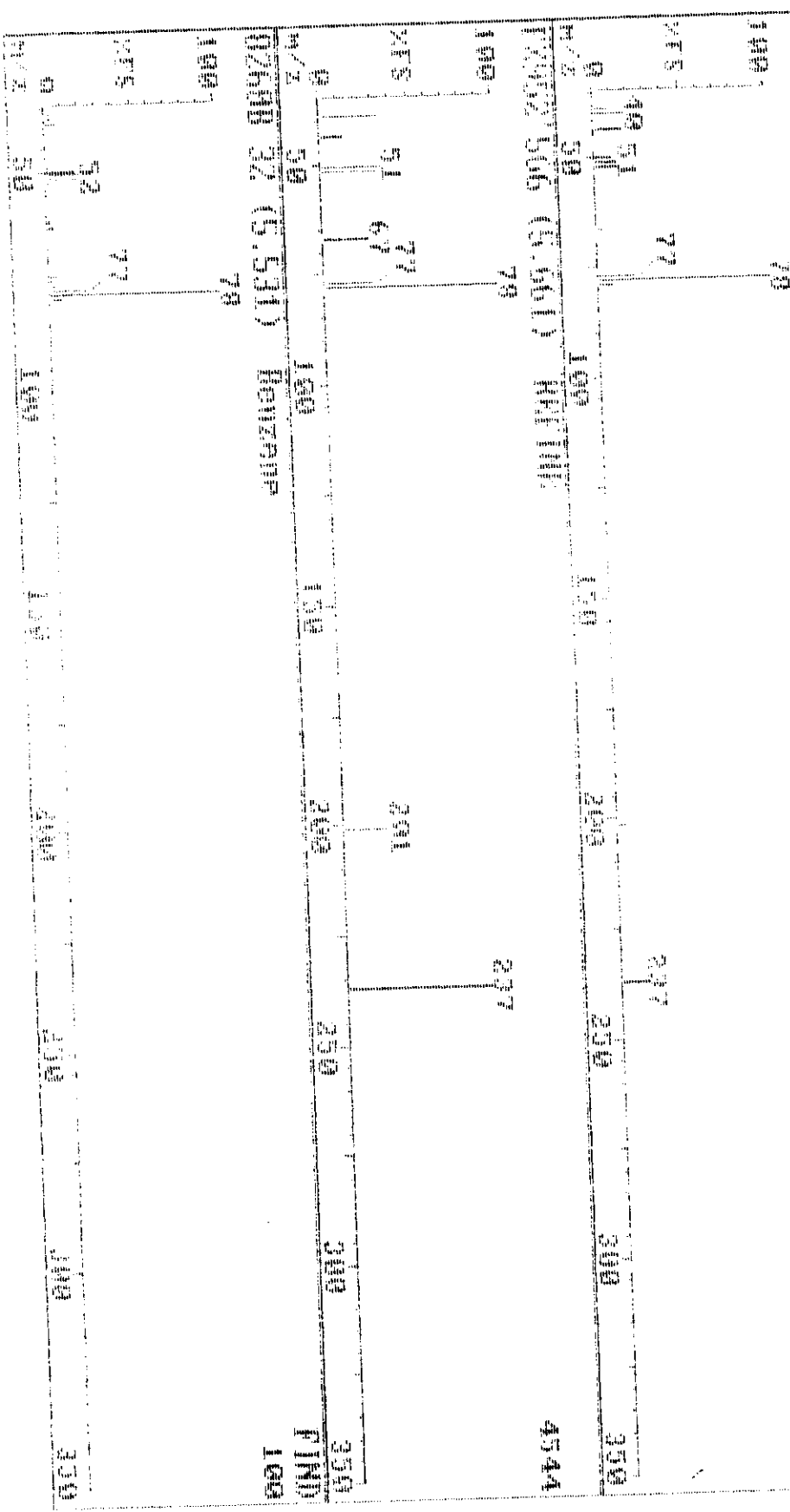
21 Aug 79 14:23

Instrument 1

Sample: UOSTM 7/10

17512 566 (5.661)

24576



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
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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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 ₅		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	0.10
m-/p-Xylene		U		0.001	0.05
o-Xylene		U		0.001	0.05
Styrene		U		0.001	0.05
Bromoform		U		0.003	0.05
1,4-Dichlorobenzene-d ₄		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

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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

Surrogate Summary	Amount (ug)	RT	IS Ref	%REC
Dibromofluoromethane	0.232	5.21	1	93
Toluene-d ₈	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

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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: ICALF824

Date Analyzed : 08/24/98

Analyte	Amount ug	FLAG	RT	Det. Limit ug	Quan. Limit ug
Pentafluorobenzene		IS 1	5.33		
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		
Ethyl acrylate		U		0.009	0.25

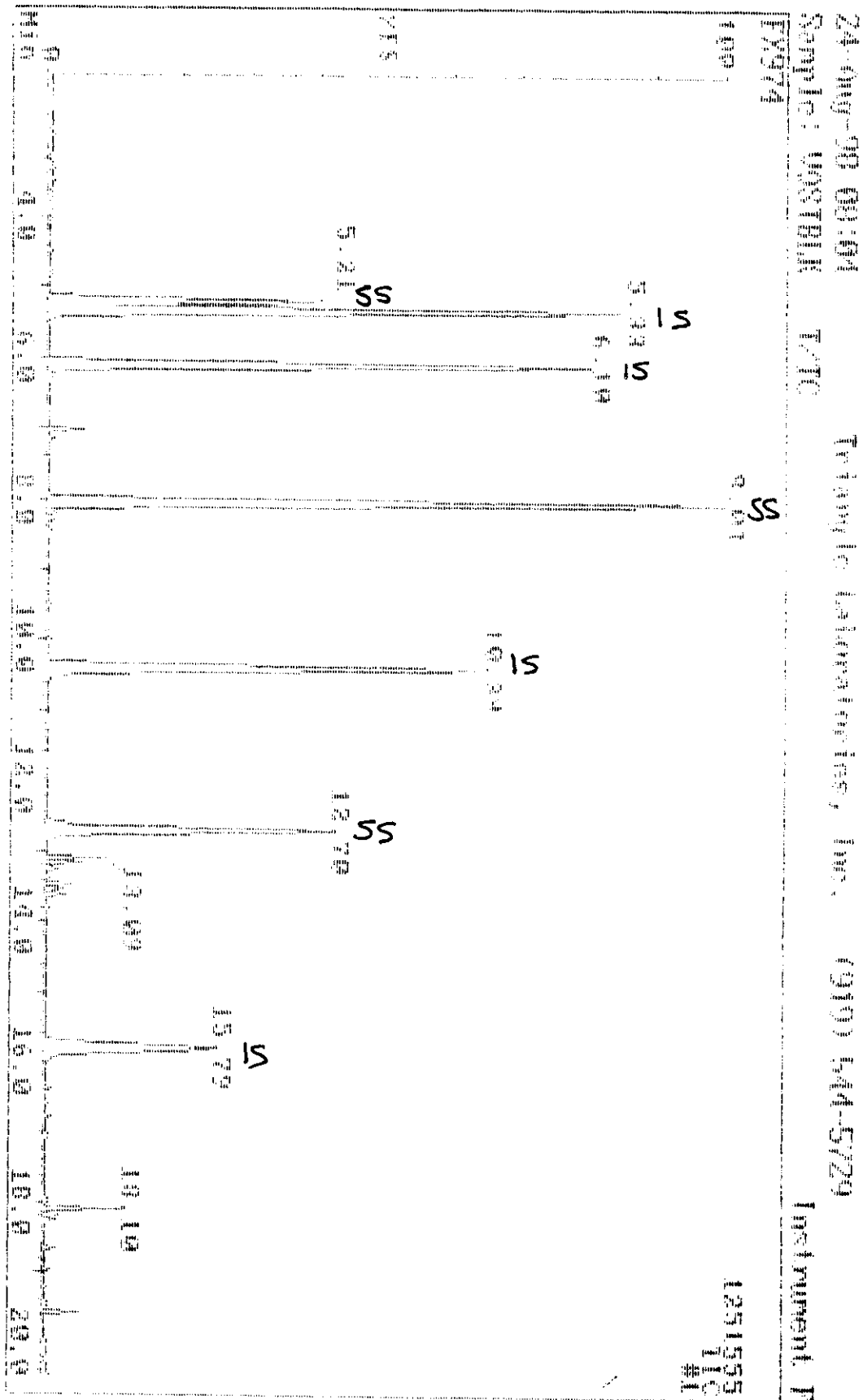
Reviewed by PAB Date 8/25/98

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



No	MAF	FOR	REF	Delta	new	Flag	RT	Chem
1	100	38	00	0	2847252	100	5.551	160 Pentachlorobenzene
2	100	27	27	0	3011331	100	5.101	114 1,1,1-trichloroethane
3	100	30	32	0	2132030	100	10.201	112 Dichlorodifluoromethane
4	100	35	33	1	746591	100	15.700	130 1,1,1-trichloroethane
5	100	36	37	1	1337024	100	3.011	113 Dichlorodifluoromethane
6	100	34	34	0	2565152	100	3.031	98 Toluene
7	100	32	32	-1	143726	100	12.601	94 1,1-dichloroethane
8	0	0	0	0	0		0.000	35 Fluorobenzene
9	0	0	0	0	0		0.000	50 Chlorobenzene
10	0	0	0	0	0		0.000	67 Methyl Chloride
11	0	0	0	0	0		0.000	94 Bromobenzene
12	0	0	0	0	0		0.000	20 Chloroacetylene
13	0	0	0	0	0		0.000	101 1,1,1-trichloroethane
14	0	0	0	0	0		0.000	36 1,1,1-trichloroethane
15	0	0	0	0	0		0.000	94 Toluene
16	0	0	0	0	0		0.000	20 Chloroacetylene
17	0	0	0	0	0		0.000	45 Benzene
18	0	0	0	0	0		0.000	45 Benzene
19	0	0	0	0	0		0.000	98 Toluene
20	0	0	0	0	0		0.000	98 Toluene
21	0	0	0	0	0		0.000	98 Toluene
22	0	0	0	0	0		0.000	98 Toluene
23	0	0	0	0	0		0.000	98 Toluene
24	0	0	0	0	0		0.000	98 Toluene
25	0	0	0	0	0		0.000	98 Toluene
26	0	0	0	0	0		0.000	98 Toluene
27	0	0	0	0	0		0.000	98 Toluene
28	0	0	0	0	0		0.000	98 Toluene
29	0	0	0	0	0		0.000	98 Toluene
30	0	0	0	0	0		0.000	98 Toluene
31	0	0	0	0	0		0.000	98 Toluene
32	0	0	0	0	0		0.000	98 Toluene
33	0	0	0	0	0		0.000	98 Toluene
34	0	0	0	0	0		0.000	98 Toluene
35	0	0	0	0	0		0.000	98 Toluene
36	0	0	0	0	0		0.000	98 Toluene
37	0	0	0	0	0		0.000	98 Toluene
38	0	0	0	0	0		0.000	98 Toluene
39	0	0	0	0	0		0.000	98 Toluene
40	0	0	0	0	0		0.000	98 Toluene
41	0	0	0	0	0		0.000	98 Toluene
42	0	0	0	0	0		0.000	98 Toluene
43	0	0	0	0	0		0.000	98 Toluene
44	0	0	0	0	0		0.000	98 Toluene
45	0	0	0	0	0		0.000	98 Toluene
46	0	0	0	0	0		0.000	98 Toluene
47	0	0	0	0	0		0.000	98 Toluene
48	0	0	0	0	0		0.000	98 Toluene
49	0	0	0	0	0		0.000	98 Toluene
50	0	0	0	0	0		0.000	98 Toluene

Data Review: PA13
Date: 8/24/98

No.	FOR REV. Decl. no.				Amount P/L/Share	ST	QST Name
51	0	0	0	0	0	0.000	101 1,1,1,2,2,2-trifluoroethane
52	0	0	0	0	0	0.000	102 Ethylbenzene
53	0	0	0	0	0	0.000	103 acetylene
54	0	0	0	0	0	0.000	104 ethylene
55	0	0	0	0	0	0.000	105 propyne
56	0	0	0	0	0	0.000	106 Propane
57	0	0	0	0	0	0.000	107 Butane
58	0	0	0	0	0	0.000	108 1,1,1,2,2,2-hexafluoroethane
59	0	0	0	0	0	0.000	109 Bromobenzene
60	0	0	0	0	0	0.000	110 1,1,2,2,3,3-hexafluoroethane
61	0	0	0	0	0	0.000	111 1,1,2,2,3,3-hexafluoroethane
62	0	0	0	0	0	0.000	112 1,1,2,2,3,3-hexafluoroethane
63	0	0	0	0	0	0.000	113 1,1,2,2,3,3-hexafluoroethane
64	0	0	0	0	0	0.000	114 1,1,2,2,3,3-hexafluoroethane
65	0	0	0	0	0	0.000	115 1,1,2,2,3,3-hexafluoroethane
66	0	0	0	0	0	0.000	116 1,1,2,2,3,3-hexafluoroethane
67	0	0	0	0	0	0.000	117 1,1,2,2,3,3-hexafluoroethane
68	0	0	0	0	0	0.000	118 1,1,2,2,3,3-hexafluoroethane
69	0	0	0	0	0	0.000	119 1,1,2,2,3,3-hexafluoroethane
70	0	0	0	0	0	0.000	120 1,1,2,2,3,3-hexafluoroethane
71	0	0	0	0	0	0.000	121 1,1,2,2,3,3-hexafluoroethane
72	0	0	0	0	0	0.000	122 1,1,2,2,3,3-hexafluoroethane
73	0	0	0	0	0	0.000	123 1,1,2,2,3,3-hexafluoroethane
74	0	0	0	0	0	0.000	124 1,1,2,2,3,3-hexafluoroethane
75	0	0	0	0	0	0.000	125 1,1,2,2,3,3-hexafluoroethane
76	0	0	0	0	0	0.000	126 1,1,2,2,3,3-hexafluoroethane
77	0	0	0	0	0	0.000	127 1,1,2,2,3,3-hexafluoroethane
78	0	0	0	0	0	0.000	128 1,1,2,2,3,3-hexafluoroethane
79	0	0	0	0	0	0.000	129 1,1,2,2,3,3-hexafluoroethane
80	0	0	0	0	0	0.000	130 1,1,2,2,3,3-hexafluoroethane
81	0	0	0	0	0	0.000	131 1,1,2,2,3,3-hexafluoroethane
82	0	0	0	0	0	0.000	132 1,1,2,2,3,3-hexafluoroethane
83	0	0	0	0	0	0.000	133 1,1,2,2,3,3-hexafluoroethane
84	0	0	0	0	0	0.000	134 1,1,2,2,3,3-hexafluoroethane
85	0	0	0	0	0	0.000	135 1,1,2,2,3,3-hexafluoroethane
86	0	0	0	0	0	0.000	136 1,1,2,2,3,3-hexafluoroethane
87	0	0	0	0	0	0.000	137 1,1,2,2,3,3-hexafluoroethane
88	0	0	0	0	0	0.000	138 1,1,2,2,3,3-hexafluoroethane
89	0	0	0	0	0	0.000	139 1,1,2,2,3,3-hexafluoroethane
90	0	0	0	0	0	0.000	140 1,1,2,2,3,3-hexafluoroethane
91	0	0	0	0	0	0.000	141 1,1,2,2,3,3-hexafluoroethane
92	0	0	0	0	0	0.000	142 1,1,2,2,3,3-hexafluoroethane
93	0	0	0	0	0	0.000	143 1,1,2,2,3,3-hexafluoroethane
94	0	0	0	0	0	0.000	144 1,1,2,2,3,3-hexafluoroethane
95	0	0	0	0	0	0.000	145 1,1,2,2,3,3-hexafluoroethane
96	0	0	0	0	0	0.000	146 1,1,2,2,3,3-hexafluoroethane
97	0	0	0	0	0	0.000	147 1,1,2,2,3,3-hexafluoroethane
98	0	0	0	0	0	0.000	148 1,1,2,2,3,3-hexafluoroethane
99	0	0	0	0	0	0.000	149 1,1,2,2,3,3-hexafluoroethane
100	0	0	0	0	0	0.000	150 1,1,2,2,3,3-hexafluoroethane

QUAN DB : FX974

133-PAGE QUAN

133-03

133-04

No. MAT FOR REV Delta						Delta P.Flags	RT	QM Name
1	100	88	99	4	2947952	bb	5.351	108 Pentachlorobenzene
2	100	97	77	-1	5010304	bb	6.101	114 1,4-dichlorobenzene
3	100	88	88	-2	2107932	bv	10.721	117 Chlorobenzene-95
4	100	85	94	0	748592	bv	15.722	152 1,4-dichlorobenzene-16
5	100	96	97	0	1052024	bb	5.211	113 Dichloromethane-100
6	100	94	96	-1	5565152	bb	8.031	98 Toluene-98
7	100	92	92	-2	947920	bb	12.621	95 4-Bromo Fluorobenzene
8	0	0	0	0	0		0.000	79 1,1-Dichloroethane
9	0	0	0	0	0		0.000	106 Vinyl Bromide
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	47 1,1,2,2-tetrachloroethane
13	0	0	0	0	0		0.000	17 1,2-dichloroethane
14	0	0	0	0	0		0.000	11 1,1,1-trichloroethane

CALIBRATION
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

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

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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

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Triangle Laboratories, Inc.
Continuing Calibration Curve

CCAL File: HW552
ICAL File: ICALH809

Date of Analysis :08/09/98

Analyte List: special

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

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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: PAR Date 8/26/98

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

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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	Date of Analysis :08/24/98	Analyte List: special
ICAL File: ICALF821		
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: PARS 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	0.446	0.446	0.0
1,3-Butadiene		0.502	0.502	0.0
Vinyl bromide		0.124	0.124	0.0
MTBE		0.692	0.692	0.0
n-Hexane		0.005	0.005	0.0 <<
1,2-Epoxybutane		1.536	1.536	0.0
Iso-Octane				
1,4-Difluorobenzene	I	0.230	0.230	0.0
Ethyl acrylate				0.0
Average %RSD				

Approved by: EAB Date 8/10/98

* - 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: HW557
ICAL File: ICALH809

Date of Analysis :08/09/98

Analyte List: short

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: Gar 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
RF0.50 FX950

Date of Analysis :08/21/98

Analyte List: short

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: Pub 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
RF0.50 FX972

Date of Analysis :08/24/98

Analyte List: short

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

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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: ParB 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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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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