US EPA RECORDS CENTER REGION 5
539639

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/4/94

SUBJECT: Review of Region V CLP Data
Received for Review on Dec 10, 1992

FROM: Charles T. Elly, Director (SL-10C)
Central Regional Laboratory MSP for CTE

TO: Data User: IEPA

We have reviewed the data for the following case.

SITE NAME: O'Hara Property (IL)

CASE and/or SAS NUMBER: 21170 SDG NUMBER: EX002

Number and Type of Samples: 13 water/soils

CLP Sample Numbers: EX002 - 12, 14, 15

CLP Laboratory: Encotec Hrs. for Review 14.5 + 1.5 = 16 wks

Following are our findings:

The data are acceptable for use with qualification.

Mumtaz Pasha
1/4/94

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualification.
( ) Data are preliminary, pending verification by laboratory.
( ) Data are unacceptable.

cc: Edward Kantor, EMSL-Las Vegas
Julie Frankel, VIAR & Co. (SMO)

NARRATIVE

Case 21170 consisted of ten (10) soil samples and three (3) water samples, labeled EXQ02 - 12, 14 and 15 collected November 2 and 3, 1993. ENCOTEC of Ann Arbor, Michigan received all thirteen (13) samples on November 4, 1993 intact and in good condition following CLP SOW OLM01.8 (8/91), except the VOA fraction of sample EXQ12. The jar containing the VOA fraction of sample EXQ12 was received broken. Eleven (11) samples in SDG EXQ02 were scheduled for full organic analyses. The remaining two (2) samples, EXQ14 and EXQ15 were scheduled for VOA analyses only.

Sample EXQ12 was used as the water low level spike sample for all three fractions. Sample EXQ02 was used as the soil low level spike sample for all three fractions. Soil sample EXQ03DL was used as the medium level spike for the VOA fraction only.

Samples EXQ14 and EXQ15 were identified as trip blanks. No samples in this case were identified as either field blanks or field duplicates.

All VOA samples were analyzed within the holding time of fourteen (14) days for both soil and preserved water samples, therefore the results are acceptable. The extractions for the water sample EXQ12, were conducted within the seven (7) day holding time and promptly analyzed, therefore the results are acceptable. All SV and PEST/PCB soil samples were extracted within the holding time of fourteen (14) days and analyzed within 40 days.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Allison C. Harvey_____ Lockheed/ESAT
Date: December 22, 1993

NARRATIVE

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1. HOLDING TIME.

ENCOTEC of Ann Arbor, Michigan received ten (10) soil samples and three (3) water samples (labeled EXQ02 - 12, 14 and 15) for low level organic analyses on November 4, 1993. All samples for SMO Case 21170, except the VOA fraction of sample EXQ12, were received intact and in good condition following CLP SOW OLM01.8 (8/91). The jar containing the VOA fraction of sample EXQ12 was received broken but still full enough to carry out the requested analysis. Eleven (11) samples of sample delivery group (SDG) EXQ02 were analyzed for full organics. The remaining two (2) samples, EXQ14 and EXQ15 were scheduled for VOA analysis only.

Soil samples were collected November 2 and the water samples were collected November 3, 1993. All VOA samples including EXQ03DL, were analyzed between November 11 and 13, 1993 well within the 14-day holding time for both preserved water and soil samples, therefore all data is acceptable. Extractions for both the SV and PEST/PCB fractions were conducted on November 11, 1993 well within the 14-day holding times for unpreserved soil samples and analyzed within 40 days, therefore the results are acceptable. Extractions for the water sample were conducted on November 5 and 8, 1993 well within the 7-day holding time, therefore the results are acceptable.

2. GC/MS TUNING AND GC PERFORMANCE.

All VOA BFB (Bromofluorobenzene) tune checks met the required mass list (normalized to m/z 95) and ion abundance criteria. All samples were analyzed within the twelve (12) hour periods for instrument performance; therefore results are acceptable.

The SV DFTPP (Decafluorotriphenylphosphine) tune check performed on 12/01/93 (18:17) failed to meet the required ion abundance criteria (5.0-9.0%) for m/z 199 (4.69). The m/z ratios for 198/199 and 442/443 are critical as these ratios are based on the natural abundances of carbon 12 and 13 and should always be met. Therefore detected semi-volatiles should be qualified as estimated, "J" and non-detects as "UJ".

Reviewed by: Allison C. Harvey_____ Lockheed/ESAT
Date: December 22, 1993

Pesticide Performance Evaluation Mixtures were conducted at the appropriate frequency and met the requirements for retention times (RT), percent (%) breakdown and relative percent difference (%RPD). In the Pesticide Resolution Check Mixture, the % resolution was not calculated for the compound Decachlorobiphenyl, therefore the reviewer is unable to determined if the percent (%) resolution criteria were met.

The Florisil Cartridge Check and the Pesticide GPC calibration met the required QC criteria and therefore, the results are acceptable.

3. CALIBRATION.

Initial and continuing calibrations of VOA, SV, and PEST/PCB standards were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

All volatile and semi-volatile target compounds are qualified by using the following criteria: If the %RSD is greater than (>) 30.0% and all initial calibration RRFs were greater than or equal to (≥) 0.05, positive results are qualified as estimated "J". If the %D is outside the ± 25.0% criteria and the continuing calibration RRFs are ≥ 0.05, positive results are qualified "J" and non-detects are "UJ".

4. METHOD BLANK.

VOA: VBLKMZ is the low level water method blank. VBLKKZ and VBLKLZ are the two (2) low level soil method blanks and VBLKNZ and VBLK2Z are the two (2) medium level soil method blanks. VBLKKZ and VBLKLZ reported two (2) TCLs - Methylene Chloride and 2-Butanone, and no TICs. VBLKMZ reported two (2) TCLs - Methylene Chloride and Acetone, and no TICs. VBLKNZ and VBLK2Z reported three (3) TCLs - Methylene Chloride, Acetone, and 2-Butanone, and no TICs. The presence of the common laboratory contaminants, Methylene Chloride, Acetone, and/or 2-Butanone is qualified as non-detected "U" when the sample concentration is less than or equal to (≤) ten times (10x) the blank result.

SV: SBLK01 is the low level water method blank and SBLK02 is the low level soil method blank. SBLK01 reported two (2) TCLs - Diethylphthalate, and bis(2-Ethylhexyl)phthalate and eleven

(11) TICs. SBLK02 reported no TCLs and two (2) TICs. The presence of the common laboratory contaminants (i.e. the phthalate compounds) is qualified as non-detected "U" when the concentration in the associated sample is less than or equal to (≤) ten times (10x) the blank result. The presence of the TICs is qualified as non-detected "U" when the concentration in the associated sample is less than or equal to (≤) five times (5x) the blank result.

PEST: PBLKW1 is the water method blank and PBLKL1 is the soil method blank. No target compounds were detected in either method blank or any of the eight (8) instrument blanks.

Please refer to Form-IVs for a list of the samples associated with each blank.

5. SURROGATE (SYSTEM MONITORING COMPOUND) RECOVERY.

Surrogate recoveries for all VOA samples were within QC limits, therefore the results are acceptable.

SV water: S5 (2FP) = 2-Fluorophenol of the acid fraction reported %recoveries high outside QC limits (21-110%) for samples EXQ12MSD (119) and method blank SBLK01 (137). As data are not qualified unless two or more (2+) surrogates within the same fraction are outside QC limits, no qualification of the results with regard to surrogate recovery is necessary.

SV soil: Sample EXQ03 was analyzed at a dilution of 1:50, and subsequently all surrogates reported zero %recovery. Therefore, detected semi-volatile target compounds are qualified as estimated, "J" and non-detects as unusable, "R".

PEST water: DCB = Decachlorobiphenyl reported %recoveries low outside QC limits (60-150%) on both G.C. columns for method blank PBLKW1 (56,56). The low surrogate recoveries (i.e., between 10 and 60 percent) may indicate a low bias in the sample results, therefore associated detected compounds should be qualified as estimated, "J" and non-detects as "UJ".

PEST soil: TCX = Tetrachloro-m-xylene and DCB = Decachlorobiphenyl reported %recoveries low outside QC limits (60-150%) for the following samples:

NARRATIVE

CONTRACTOR: ENCOTEC
CASE: 21170
SITE: O'HARA PROPERTY (IL)

SDG.: EXQ02

Sample	TCX %recovery DB-1701	TCX %recovery DB-17	DCB %recovery DB-1701	DCB %recovery DB-17
EXQ02	41	46	44	49
EXQ03	32	35		
EXQ04	43	49	22	27
EXQ05	34	41	34	42
EXQ06	34	38	24	29
EXQ07	38	48	18	
EXQ08	42	48	15	40
EXQ09	46	55	20	26
EXQ10	41	46	21	29
EXQ11	45	55	21	40
EXQ02MS	34	40		
EXQ02MSD	58			
PBLKL1	0	4	43	44

DCB reported %recoveries high outside QC limits on both G.C. columns for sample EXQ03 (438,538). The high recoveries (i.e. greater than 150%) observed in sample EXQ03 may be an indication of a high bias due to co-eluting interferences. Therefore all associated detected compounds should be qualified as estimated, "J". For the above mentioned samples the low recoveries (i.e. between 10 and 60%) may be an indication of a low bias in the sample results and associated detected compounds should be qualified as estimated, "J" and non-detects as "UJ". Method blank PBLKL1 reported % recovery between 0 and 10%, therfore detected compounds should be qualified as estimated, "J" and non-detects as unusable "R". The poor recoveries observed for the method blank and the samples indicate that there may have been a fundamental problem with the analytical process.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

Sample EXQ12 was used as the low level water spike sample for all three fractions. Sample EXQ02 was used as the low level soil spike sample for all three fractions. Soil sample EXQ03DL was used as the medium level spike for the VOA fraction only.

The MS/MSD %recoveries and %RPD values for all VOA and the water PEST/PCB fractions were well within the required QC limits; therefore the results are acceptable.

Reviewed by: Allison C. Harvey_____ Lockheed/ESAT
Date: December 22, 1993

SV water: The MS/MSD %recovery reported high outside QC limits for the following compounds; 4-Chloro-3-methylphenol (99), 4-Nitrophenol (99,91), 2,4-Dinitrotoluene (100) and Pentachlorophenol (112,109). The presence of Pentachlorophenol in the unspiked sample should be qualified as estimated, "J" and non-detects as "UJ". The presence of 4-chloro-3-methylphenol, 4-Nitrophenol and 2,4-Dinitrotoluene are not qualified because even though the %recovery was high it was still less than or equal to 100%. Therefore the Laboratory is commended for having performed an excellent job.

SV soil: The MS/MSD %recoveries were low outside QC limits for N-Nitroso-di-n-propylamine (34,37) and 1,2,4-Trichlorobenzene (37). The presence of these compounds in the unspiked sample should be qualified as estimated, "J" and non-detects as "UJ".

PEST soil: The MS/MSD %recoveries reported high outside QC limits (23-134%) for the compound 4,4'-DDT (185,136). The MS %recovery was low outside QC limits (46-127%) for the compound gamma-BHC (Lindane) (44). The %RPD values were high outside QC for the compounds Heptachlor (54) and Aldrin (47). Therefore the presence of the above mentioned compounds in the unspiked sample should be qualified as estimated, "J" and non-detects as "UJ".

7. FIELD BLANK AND FIELD DUPLICATE.

Samples EXQ14 and EXQ15 were identified as trip blanks. Sample EXQ14 reported one (1) TCL - 2-Butanone and no TICs for the VOA fraction. Sample EXQ15 reported no TCLs and no TICs for the VOA fraction. No samples were identified as field blanks or field duplicates.

8. INTERNAL STANDARDS.

The internal standard retention times and area counts for the VOA fraction were all within the required QC limits; therefore the results are acceptable.

SV: IS5 (CRY) = Chrysene-d12 reported area counts low outside QC limits for sample EXQ07 (22100). IS6 (PRY) = Perylene-d12 reported area counts low outside QC limits for samples EXQ07 (11098), EXQ10 (10584), EXQ10RE (25308), EXQ02MS (25834) and EXQ02MSD (24252). Positive detects for compounds

quantitated using these internal standards should be qualified as estimated, "J" and non-detects as "UJ".

Please refer to Table 4 for a list of affected compounds.

9. COMPOUND IDENTIFICATION.

Target compounds and TICs were identified by "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS.

VOA, SV, and Pest/PCB Target Compounds (TCLs) and Tentatively Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE.

GC/MS baseline indicated acceptable performance.

GC baseline counts indicated acceptable performance.

12. OVERALL CASE ASSESSMENT.

The table below summarizes the number of target compounds (TCLs) outside the Contract Required Quantitation Limit (CRQL) and the number of tentatively identified compounds (TICs) associated with these samples.

Two samples, EXQ14 and EXQ15 were not originally listed on the Traffic report. The samplers notified the Laboratory on November 8, 1993 as to the proper identification of the samples. A copy of the appropriate telephone log and memos are attached to the Laboratory's narrative.

VOA: The compounds Ethylbenzene and Xylene exceeded the instrument calibration range in sample EXQ03. The sample was re-analyzed at a 1:5 dilution. The results of the re-analyzed sample, EXQ03DL were accordingly used for validating the data.

SV: The compounds Phenanthrene, Fluoranthene, and Pyrene exceeded the instrument calibration range in sample EXQ07. The sample was re-analyzed at a 1:2 dilution. The results of the re-

analyzed sample, EXQ07DL were accordingly used for validating this data.

Samples EXQ07 and EXQ10 failed to meet the Internal Standards QC criteria and were therefore re-analyzed. The results from the re-analyzed samples, EXQ07DL and EXQ10RE were subsequently used for validating this data.

PEST: The "X" flag is used to indicate the lack of confidence of a reported analyte whose retention times are within required windows on both columns, and the lower concentration exceeds CRQL's.

Sample ID #	# of Hits				
	VOA		SV		Pest/PCB
	TCL	TIC	TCL	TIC	TCL
EXQ02	4	10	1	5	1
EXQ03	5	10	3	20	6
EXQ03DL	3	8	-	-	-
EXQ04	0	0	9	11	3
EXQ05	0	0	3	13	3
EXQ06	0	0	5	14	2
EXQ07	0	0	15	20	3
EXQ07DL	-	-	15	20	-
EXQ08	0	0	16	20	4
EXQ09	1	0	8	7	3
EXQ10	0	0	10	17	4
EXQ10RE	-	-	11	13	-
EXQ11	0	0	17	20	4
EXQ12	0	0	0	0	0
EXQ14	1	0	-	-	-
EXQ15	0	0	-	-	-

(-) No analysis was performed.
(RE) Results from reanalysis.
(DL) Sample analyzed at secondary dilution.

Reviewed by: Allison C. Harvey_____ Lockheed/ESAT
Date: December 22, 1993

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21170
COLUMN: CAP Heated Purge

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY (IL)

Instrument# 026		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/11/93 0911			11/11/93 1015			11/11/93 1333			11/12/93 0917					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:

VBLKKZ	VBLKLZ
EXQ02-03	EXQ04
EXQ02MS	
EXQ02MSD	
EXQ05-11	

Reviewer's Init/Date: ~~acH~~ / 12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21170 CONTRACTOR: ENCOTEC

COLUMN: CAP Unheated Purge SITE NAME: O'HARA PROPERTY (IL

Instrument# 026		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/13/93 0725			11/13/93 1041											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10	1.072			1.366	27.4	J									
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.296	33.3	J	0.267											
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:

VBLKNZ
VBLKMZ
EXQ14
EXQ12
EXQ12MS
EXQ12MSD
EXQ15
EXQ03DL

Reviewer's Init/Date: acH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21170
COLUMN: CAP Unheated Purge

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY (IL)

Instrument# 026		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/24/93 0928			11/28/93 1128											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10	1.340			1.679	25.3	J									
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.345	36.5	J	0.378											
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:
VBLK2Z
EXQ03MS
EXQ03MSD

Reviewer's Init/Date: ACH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 21170
COLUMN:

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY

Instrument# 025		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/20/93 1247			11/24/93 1141											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	0.315			0.198	37.1	J									
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01	0.250			0.157	38.9	J									
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:
SBLK01
EXQ12
EXQ12MS
EXQ12MSD

Reviewer's Init/Date: ACH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 21170
COLUMN:

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY

Instrument# 025		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/20/93 1247			11/24/93 1141											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01	0.969	53.7	J	1.318	36.0	J									
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01	1.223			0.793	35.2	J									
Di-n-octyl phthalate	0.01	2.658			1.223	54.0	J									
Benzo(b)fluoranthene	0.70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50	0.652			0.826	26.7	J									
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60	1.711			1.251	26.9	J									
2,4,6-Tribromophenol	0.01	0.137			0.183	33.6	J									
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: aCH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 21170
COLUMN:

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY

Instrument# 001		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/30/93 1058			12/01/93 1817			12/02/93 1213			12/03/93 1616					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.167			0.112	32.9	J	0.119	28.7	J	0.102	38.9	J			
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLK02	EXQ04	EXQ03
EXQ02	EXQ08-09	
EXQ05-07	EXQ10RE	
EXQ10	EXQ07DL	
	EXQ11	
	EXQ02MS	
	EXQ02MSD	

Reviewer's Init/Date: acA / 12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 21170
COLUMN:

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY

Instrument# 001		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/30/93 1058			12/01/93 1817			12/02/93 1213			12/03/93 1616					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05	0.142			0.110			0.095	33.1	J	0.095	33.1	J			
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01	2.040			2.261			2.631	29.0	J	2.111					
Benzo(b)fluoranthene	0.70	1.506			1.681			1.927	28.0	J	1.664					
Benzo(k)fpuoranthene	0.70	0.979			1.002			0.874			0.704	28.1	J			
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: ACH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21170
COLUMN: DB-1701

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY (IL)

Instrument# 3400-A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/22/93 - 11/23			11/23/93 0904			11/24/94 1524			11/29/93 2058					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PBLKW1
EXQ12
EXQ12MS
EXQ12MSD
PBLKL1
EXQ02
EXQ02MS
EXQ02MSD
EXQ03-11

Reviewer's Init/Date: ACH/12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21170
COLUMN: DB-17

CONTRACTOR: ENCOTEC
SITE NAME: O'HARA PROPERTY (4

Instrument# 3400-B		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/22/93 - 11/23			11/23/93 0904			11/24/93 1524			11/29/93 2059					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

			PBLKW1	
			EXQ12	
			EXQ12MS	
			EXQ12MSD	
			PBLKL1	
			EXQ02	
			EXQ02MS	
			EXQ02MSD	
			EXQ03-11	

Reviewer's Init/Date: ACH / 12-20-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

DATA REPORTING QUALIFIERS
(page 1)

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

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

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

and df = dilution factor

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

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

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume, this fact be accounted for in reporting the Sample Quantitation Limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit bur greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it is as 3J. The Sample Quantitation Limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds. Where the identification is based on a mass spectral library search. It is applied to all TIC results.

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

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

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

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B" and "D" flags for some sample. The laboratory-defined are limited to letters "X", "Y" and "Z".

TABLE 4

(Multi-Media, Multi-Concentration and Low Concentration Water)

VOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Difluorobenzene	Chlorobenzene-d_5	1,4-Dichlorobenzene-d_4
Chloromethane	Toluene	Bromoform
Bromomethane	1,1,1-Trichloroethane	1,2-Dibromo-3-chloropropane*
Vinyl chloride	Carbon tetrachloride	1,2-Dichlorobenzene*
Chloroethane	Bromodichloromethane	1,3-Dichlorobenzene*
Methylene chloride	1,2-Dichloropropane	1,4-Dichlorobenzene*
Acetone	trans-1,3-Dichloropropene	
Carbon disulfide	Trichloroethene	
1,1-Dichloroethene	Dibromochloromethane	
1,1-Dichloroethane	1,1,2-Trichloroethane	
2-Butanone	Benzene	
Chloroform	cis-1,3-Dichloropropene	
1,2-Dichloroethane	Chlorobenzene	
4-Bromofluorobenzene(surr)	Ethylbenzene	
2-Butanone	Styrene	
Bromomethane*	Xylenes(total)	
cis-1,2-Dichloroethene**	4-Methyl-2-pentanone	
trans-1,2-Dichloroethene**	2-Hexanone	
	Tetrachloroethane	
	1,1,2,2-Tetrachloroethane	
	1,2-Dibromoethane*	

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}	Perylene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	Carbazole	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benzo(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Naphthalene	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
2,2'-Oxybis-(1-chloropropane)	bis(2-Chloroethoxy)methane	Dimethylphthalate	Pentachlorophenol	Chrysene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d_{14}(surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
1,2-Dichlorobenzene-d_4(surr)	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol(surr)	Nitrobenzene-d_5(surr)	2,4-Dinitrotoluene			
Phenol-d_5(surr)		2,6-Dinitrotoluene			
2-Chlorobenzene-d_4(surr)		Diethyl phthalate			
		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl(surr)			
		2,4,6-Tribromophenol(surr)			

(Surr) - surrogate

* Compounds not on Multi-Media, Multi-Concentration

** Compounds on Multi-Media, Multi-Conc. TCL as total 1,2-DCE

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: V
Sampling Co.: IEPA

Sampler (Name): Scott R Davis

Sampler Signature: [signature]

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped: 11-3-93
Carrier: FEDERAL EXPRESS

Airbill Number: 0715180664

6. Ship To: Encotec
3965 Research Triangle
Park Drive
Ann Arbor, Michigan
ATTN: [illegible] 48108

7. Date Received -- Received by: 11-04-93 RTEC

Laboratory Contract Number: 68-D2-0012
Unit Price: 685.00

8. Transfer to
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ 02	5	L	G	N	X				5-191202-3	X 106	11/2/93/11:05	SD	MEWN07	OK	11/4		
EXQ 02	5	L	G	N		X	X		5-191204	X 106	11/2/93/11:05	SD	MEWN07		[illegible]		
EXQ 03	5	L	G	N		X	X		5-191208	X 105	11/2/93/11:30	SD	MEWN03				
EXQ 03	5	L	G	N	X				5-191206-7	X 105	11/2/93/11:30	SD	MEWN03				
EXQ 04	5	L	G	N		X	X		5-191211	X 104	11/2/93/12:40	SD	MEWN04				
EXQ 04	5	L	G	N	X				5-191209-10	X 104	11/2/93/12:40	SD	MEWN04				
EXQ 05	5	L	G	N	X				5-191214-5	X 101	11/2/93/13:50	SD	MEWN05				
EXQ 05	5	L	G	N		X	X		5-191216	X 101	11/2/93/13:50	SD	MEWN05				
EXQ 06	5	L	G	N	X				5-191218-9	X 102	11/2/93/13:50	SD	MEWN06				
EXQ 06	5	L	G	N		X	X		5-191220	X 102	11/2/93/13:50	SD	MEWN06				

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate

Additional Sampler Signatures: First Sample: EXQ02 Last Sample: EXQ06

Chain of Custody Seal Number: 112205 / 112206

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	11-3-93 16:15	[signature]	SDG: EXQ02		[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature) 11/4/93
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) RTEC	Date / Time 11-04-93 0835	Remarks	Is custody seal intact? Y/N/none

Split Samples ☐ Accepted (Signature)
☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

0 353821

Org-2

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO_3
   3. $NaHSO_4$
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: II

Sampling Co.: IEPA

Sampler (Name): Scott R Davis

Sampler Signature: Scott Davis

4. Type of Activity

	Lead	Pre-Remedial		Remedial		Removal
SF			RIFS		CLEM	
PRP		PA	RD		REMA	
ST		SSI	RA		REM	
FED		LSI	O&M		OIL	
			NPLD		UST	

5. Date Shipped: 11-3-93

Carrier: FEDERAL EXPRESS

Airbill Number: 0715180664

6. Ship To: Enviro-tec, 3985 Research Triangle Park Drive, Ann Arbor, Michigan 48108

ATTN: Kathy Moore 313 [illegible]

7. Date Received -- Received by: 11-04-93 RECA

Laboratory Contract Number: 68-D2-0012

Unit Price: 685.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/ PCB	High ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ 07	5	L	G	N	X				5-191222-3	X201	11/2/93 13:20	SD	MEWN07	OK	1/4		
EXQ 07	5	L	G	N		X	X		5-191224	X201	11/2/93 13:20	SD	MEWN07		TC		
EXQ 08	5	L	G	N	X				5-191002-3	X202	11/2/93 14:45	SD	MEW08				
EXQ 08	5	L	G	N		X	X		5-191004	X202	11/2/93 14:45	SD	MEW08				
EXQ 09	5	L	G	N	X				5-191006-7	X203	11/2/93 15:00	SD	MEWN09				
EXQ 09	5	L	G	N		X	X		5-191008	X203	11/2/93 15:00	SD	MEWN09				
EXQ 10	5	L	G	N	X				5-191010-1	X204	11/2/93 15:30	SD	MEWN10				
EXQ 10	5	L	G	N		X	X		5-191012	X204	11/2/93 15:30	SD	MEWN10				
EXQ 11	5	L	G	N	X				5-191014-5	X205	11/2/93 16:10	SD	MEWN11				
EXQ 11	5	L	G	N		X	X		5-191016	X205	11/2/93 16:10	SD	MEWN11				

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate

Additional Sampler Signatures: First Sample: EXQ07 Last Sample: EXQ11

Chain of Custody Seal Number: [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11-3-93 16:15	[illegible]		SDG: EXQ02 Thru 11/4/93	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		RECA	11-04-93 0835		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353620

Org-2

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO_3
   3. $NaHSO_4$
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: IV

Sampling Co.: IEPA

Sampler (Name): Brad Taylor

Sampler Signature: Brad Taylor

4. Type of Activity (Remedial / Removal)

Lead	Pre-Remedial	Remedial	Removal
SF		RIFS	CLEM
PRP	PA	RD	REMA
ST	SSI ☒	RA	REM
FED	LSI	O&M	OIL
		NPLD	UST

5. Date Shipped: 11-3-93

Carrier: FEDERAL EXPRESS

Airbill Number: 0715189664

6. Ship To: Encotec, 3485 Research Triangle Park Blvd, Ann Arbor, Michigan 48108

ATTN: [illegible]

7. Date Received -- Received by: 11-04-93 [illegible]

Laboratory Contract Number: 68-D2-0012

Unit Price: 685.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ12	2	L	G	1	X				5-191017	G 202	11/3/93 / 9:20	BT	MEWNI2	OK	1/4	1 VOA	
EXQ12	2	L	G	N		X			5-191016-1	G 202	11/3/93/9:20	BT	MEWNI2			BROKEN	
EXQ12	2	L	G	N			X		5-191020-1	G 202	11/3/93/9:20	BT	MEWNI2				
									First & Last Sample EXQ12								
									SDG: EXQ02								
										TAM	11/4/93						

Shipment for Case complete? (Y/N): Y

Page 1 of 1

Sample used for a spike and/or duplicate:

Additional Sampler Signatures:

Chain of Custody Seal Number: 142203, 142204

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11-3-93 16:15	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[illegible]	11-04-93 0835	TWO TRIPBLANKS RECEIVED NO ID EXQ14 EXQ15 11/10	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353622

Org-2

Organic Sample Collection Requirements

"This form replaces both the Individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

     Required information:

     Case (and/or SAS) Number
     Date shipped
     Number of samples by concentration and matrix
     Carrier and airbill number
     Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

NARRATIVE

CASE 21170

A total of thirteen samples were received by ENCOTEC on November 4, 1993, and were scheduled for Organics Analysis under Contract #68-D2-0012, first bid lot. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EXQ02

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	13	6	1	20
Semivolatile Analyses	11	4	2	17
Pesticide/PCB Analyses	11	4	0	15

Total Billable Analyses: 15 FULL + 2 BNA + 5 VOA

This Deliverables Package is assembled in accordance with instructions in Section B, OLM01.8 revision of the Contract Laboratory Program - Statement of Work. A copy of this deliverable has been distributed to the Sample Management Office (SMO), EMSL-LV and Region V. In addition a sample Summary Data Package has been sent to SMO.

The following is a detailed description of quality control, shipment, and/or analytical problems that were encountered in the processing of these samples.

21170 SAMPLE CUSTODY

SDG# EXQ02

Client E.P.A (RAS)

Case # 21170

SDG # EXQ02

Sample Login

ENCOTEC received thirteen samples from Federal Express on November 4, 1993. Standard Chain of Custody procedures were followed. Two samples, EXQ14 and EXQ15, were not originally listed on the traffic report. Please see phone logs depicting the problem and resolution. The samples were stored at 4°C and/or chemically preserved as required by EPA protocol. The samples were scheduled for Full Organic Analysis.

21170 VOLATILES

SDG# EXQ02

Client E.P.A (RAS)

Case # 21170

SDG # EXQ02

Sample Analysis - Volatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLM01.8. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM'S II VOA-2 for results.

- The method blanks contained Methylene Chloride, Acetone and 2-Butanone as target analytes near or below the CRQL. No Tentatively Identified Compounds (TICs) were detected. Please see method blank Forms I VOA for results.

-Matrix spikes and matrix spike duplicates were analyzed on samples EXQ02, EXQ03 and EXQ12. Please see Forms III VOA-1 and VOA-2.

- All EICP areas and retention times were within QA/QC windows. Please see FORM's VIII VOA for results.

Summary

The samples revealed multiple positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the samples. Sample EXQ03 required reanalysis at a secondary dilution due to concentrations of positively detected analytes exceeding the range established by the calibration standards. Please see FORM's I VOA for results.

CASE 21170 EXTRACTIONS

SDG# EXQ02

Client E.P.A (RAS)
Case # 21170
SDG # EXQ02

Sample Extraction

Water samples were extracted for Semivolatiles by continuous liquid-liquid extraction on November 8, 1993. Samples were separatory funnel extracted for Pesticide/PCBs on November 5, 1993. All extracts were processed according to CLP protocol without incident. Final extracts were given to the GC/MS group on November 9, 1993 and to the GC group on November 12, 1993.

Soil samples were sonication extracted on November 11, 1993 for Pesticide/PCBs and Semivolatiles. All soil samples were screened by GC(FID), sample EXQ03 was determined require medium level extraction while all other samples were found to be low level extracts. Sample EXQ03 was medium level extracted on November 13, 1993. All samples were processed according to CLP protocol without incident. Final extracts were given to the GC group for analysis on November 29, 1993 and to the GC/MS group on November 24, 1993.

21170 SEMIVOLATILES

SDG# EXQ02

Client E.P.A (RAS)

Case # 21170

SDG # EXQ02

Sample Analysis - Semivolatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLM01.8. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM'S II BNA-2 for results.

- The method blank revealed only two target Compounds. Diethylphthalate and Bis(2-Ethylhexyl) phthalate were detected at concentrations less than the CRQL. Several TICs were identified. Please see method blank FORM's I SV-1, SV-2, and SV-TIC for results.

-Matrix spikes and matrix spike duplicates were analyzed on samples EXQ02 and EXQ12. Please see Forms III SV-1 and SV-2.

-All EICP areas and retention times were within QA/QC windows except for samples EXQ02, EXQ07 and EXQ10. These samples were reanalyzed to verify possible matrix interferences. The reanalyses of these samples exhibited similar EICP outliers. Please see FORM's VIII SV-1 and SV-2 for results.

Summary

The samples revealed multiple Target compounds. Several TIC's were detected in the samples. Sample EXQ03 was extracted at both low and medium level. The sample was analyzed at low level. Sample EXQ07 required reanalysis at a secondary dilution due to concentrations of positively detected analytes exceeding the range established by the calibration standards. Please see FORM's I SV-1, SV-2, and SV-TIC for results.

21170 PESTICIDE/PCB

SDG# EXQ02

Client E.P.A (RAS)
Case # 21170
SDG # EXQ02

Sample Analysis - Pesticide/PCB

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLM01.8. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II PEST-1, and PEST-2 for results.

- The method blanks did not contain any target analytes at or above the CRQL.

- Matrix spikes and matrix spike duplicates were analyzed on samples EXQ12, and EXQ02 . Please see FORM III PEST-1 and PEST-2 respectively, for results.

- The "E" flag indicates an analyte was present at levels which exceeded instrument linearity, the sample is then reanalyzed at the appropriate dilution.

- The "X" flag is used to indicate the lack of confidence of a reported analyte, whose retention times are within required windows on both columns, and the lower concentration exceeds CRQL's.

Summary

The following samples contained target analytes at or above CRQL's. EXQ02, EXQ03, EXQ04, EXQ05, EXQ06, EXQ07, EXQ08, EXQ09, EXQ10, and EXQ11.

Any technical questions regarding the data present in this deliverable should be addressed to the individual whose name appears at the end of this case narrative. Please note that the "Run Logs" contained in the miscellaneous data section may be copies. The location of the original documents, along with any other corresponding original documents, are listed on the "Run Logs".

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

Thomas H. Marshall

Thomas H. Marshall
CLP Project Manager
THM
75100

O'Hara Property

In Reference to Case No(s):
21170

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

Date of Call: 11-18-93

Laboratory Name: ENCOTEC

Lab Contact: ROB MURRY

Region: V

Regional Contact: JANE VON HOFEN

Call Initiated By: X Laboratory ____ Region

In reference to data for the following sample number(s):

EXQ14
EXQ15

Summary of Questions/Issues Discussed:

* SAMPLES WERE RECEIVED AS TRIPBLANKS
* NOT LISTED ON TR.
* NO TAGS ON SAMPLES

Summary of Resolution:

* SAMPLER SENT LETTER TO GIVE TRIPBLANKS ID'S
* SMO SENT M16 TO INFORM THAT [illegible] SAMPLES WERE NOT ON TR

RECEIVED
NOV 29 1993
U.S. EPA, CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

RSC
Signature

11-18-93
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

SMO ID	SAMPLE DESCRIPTION	CONCENTRATION	ANALYSIS	TAG #'S	SAMPLE DATE
EXQ14	RINSATE	LOW	VOA	NONE	NONE
EXQ15	RINSATE	LOW	VOA	NONE	NONE

REGION V
CASE 21170
REC'D 11-4-93

SEE M16 FOR OTHER RELAVENT INFORMATION

NOV 10 1993

Date: November 8, 1993
To: ENCOTEC Labs
From: Peter Sorensen
Re: assignment of sample numbers to organic trip blanks

On our sampling event on November 2 and 3 at the O'Hara Property (Case # 21170) we omitted giving the trip blanks a sampling number. On November 8, we assigned the trip blanks sampling numbers and reported them to Jane VonHoffen. The organic trip blank numbers assigned were EXQ14 and EXQ15.

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EXQ12	106	102	108	0	0
02	EXQ14	105	103	114	0	0
03	EXQ15	104	98	107	0	0
04	EXQ12MS	102	99	109	0	0
05	EXQ12MSD	102	99	108	0	0
06	VBLKMZ	107	101	104	0	0

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EXQ02	103	82	93	0	0
02	EXQ03	121	93	94	0	0
03	EXQ04	97	89	99	0	0
04	EXQ05	112	72	93	0	0
05	EXQ06	105	74	96	0	0
06	EXQ07	93	86	94	0	0
07	EXQ08	101	88	95	0	0
08	EXQ09	95	86	90	0	0
09	EXQ10	102	80	93	0	0
10	EXQ11	99	88	93	0	0
11	EXQ02MS	114	82	98	0	0
12	EXQ02MSD	116	78	94	0	0
13	VBLKKZ	99	90	92	0	0
14	VBLKLZ	101	95	97	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EXQ03DL	97	108	107	0	0
02	EXQ03MS	98	103	98	0	0
03	EXQ03MSD	104	94	94	0	0
04	VBLKNZ	107	102	102	0	0
05	VBLK2Z	113	87	100	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ12

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	46.53	93	61-145
Trichloroethene	50.00	0	46.78	94	71-120
Benzene	50.00	0	49.58	99	76-127
Toluene	50.00	0	48.24	96	76-125
Chlorobenzene	50.00	0	48.24	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	45.54	91	2	14	61-145
Trichloroethene	50.00	46.07	92	2	14	71-120
Benzene	50.00	48.69	97	2	11	76-127
Toluene	50.00	48.38	97	1	13	76-125
Chlorobenzene	50.00	47.85	96	0	13	75-130

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

* Values outside of QC limits

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

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ02 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	63.30	0	63.86	101	59-172
Trichloroethene	63.30	0	58.34	92	62-137
Benzene	63.30	0	64.67	102	66-142
Toluene	63.30	0	66.49	105	59-139
Chlorobenzene	63.30	0	58.70	93	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	63.30	61.57	97	4	22	59-172
Trichloroethene	63.30	57.09	90	2	24	62-137
Benzene	63.30	65.66	104	2	21	66-142
Toluene	63.30	69.01	109	4	21	59-139
Chlorobenzene	63.30	58.38	92	1	21	60-133

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

* Values outside of QC limits

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

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ03DL Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	31600	0	33420	106	59-172
Trichloroethene	31600	0	29760	94	62-137
Benzene	31600	0	30350	96	66-142
Toluene	31600	1160	35190	108	59-139
Chlorobenzene	31600	0	31780	101	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	7910	7271	92	14	22	59-172
Trichloroethene	7910	7199	91	3	24	62-137
Benzene	7910	7464	94	2	21	66-142
Toluene	7910	9165	101	7	21	59-139
Chlorobenzene	7910	7763	98	3	21	60-133

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

* Values outside of QC limits

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

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKKZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: VSB1111Z Lab Sample ID: VSB1111Z

Date Analyzed: 11/11/93 Time Analyzed: 1447

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

Instrument ID: 026

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXQ02	EXQ02V	EXQ02V	1553
02	EXQ03	EXQ03V	EXQ03V	1732
03	EXQ05	EXQ05V	EXQ05V	1839
04	EXQ06	EXQ06V	EXQ06V	1911
05	EXQ07	EXQ07V	EXQ07V	1945
06	EXQ08	EXQ08V	EXQ08V	2018
07	EXQ09	EXQ09V	EXQ09V	2051
08	EXQ10	EXQ10V	EXQ10V	2125
09	EXQ11	EXQ11V	EXQ11V	2158
10	EXQ02MS	EXQ02VM	EXQ02VM	1626
11	EXQ02MSD	EXQ02VD	EXQ02VD	1659

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKLZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: VSB1112Z Lab Sample ID: VSB1112Z

Date Analyzed: 11/12/93 Time Analyzed: 1022

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

Instrument ID: 026

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXQ04	EXQ04VR	EXQ04VR	1054

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKNZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: VMB1113Z Lab Sample ID: VMB1113Z

Date Analyzed: 11/13/93 Time Analyzed: 1115

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: 026

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXQ03DL	EXQ03VR	EXQ03VR	2047

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKMZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: VWB1113Z Lab Sample ID: VWB1113Z

Date Analyzed: 11/13/93 Time Analyzed: 1147

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: 026

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXQ12	EXQ12V	EXQ12V	1810
02	EXQ14	EXQ14V	EXQ14V	1738
03	EXQ15	EXQ15V	EXQ15V	1944
04	EXQ12MS	EXQ12VM	EXQ12VM	1841
05	EXQ12MSD	EXQ12VD	EXQ12VD	1913

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2Z

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: VMB1128Z Lab Sample ID: VMB1128Z

Date Analyzed: 11/28/93 Time Analyzed: 1233

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: 026

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXQ03MS	EXQ03VM	EXQ03VM	1305
02	EXQ03MSD	EXQ03VD	EXQ03VD	1337

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VSB1111Z

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VSB1111Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKKZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VSB1111Z

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VSB1111Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKLZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VSB1112Z

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VSB1112Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/12/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKLZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VSB1112Z

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VSB1112Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/12/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKMZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: VWB1113Z

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VWB1113Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKMZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: VWB1113Z

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VWB1113Z

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKNZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VMB1113Z

Sample wt/vol: 4.0 (g/mL) G Lab File ID: VMB1113Z

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	330	J
67-64-1	Acetone	940	J
75-15-0	Carbon Disulfide	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	1200	U
540-59-0	1,2-Dichloroethene (total)	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	680	J
71-55-6	1,1,1-Trichloroethane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	1200	U
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
100-42-5	Styrene	1200	U
1330-20-7	Xylene (total)	1200	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKNZ

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VMB1113Z

Sample wt/vol: 4.0 (g/mL) G Lab File ID: VMB1113Z

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2Z

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VMB1128Z

Sample wt/vol: 4.0 (g/mL) G Lab File ID: VMB1128Z

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/28/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	410	J
67-64-1	Acetone	2100	
75-15-0	Carbon Disulfide	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	1200	U
540-59-0	1,2-Dichloroethene (total)	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	1200	
71-55-6	1,1,1-Trichloroethane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	1200	U
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
100-42-5	Styrene	1200	U
1330-20-7	Xylene (total)	1200	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2Z

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: VMB1128Z

Sample wt/vol: 4.0 (g/mL) G Lab File ID: VMB1128Z

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/28/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ02V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~4~~	BJ u
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13 ~~5~~	BJ u
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	9	J
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	3	J
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	29	

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ02V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRIMETHYL CYCLOHEXANE ISOMER	13.37	9	J
2.	UNKNOWN	13.90	6	J
3.	UNKNOWN	15.23	7	J
4.	UNKNOWN	15.87	9	J
5.	UNKNOWN	16.42	17	J
6.	UNKNOWN	16.63	7	J
7.	UNKNOWN ALKANE	16.75	17	J
8.	UNKNOWN	17.68	32	J
9.	UNKNOWN SILOXANE	18.07	18	J
10.	UNKNOWN ALKYL BENZENE	18.22	11	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03V

Sample wt/vol: 2.5 (g/mL) G Lab File ID: EXQ03V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	15	BJ
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	25 ~~9~~	BJu
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	180	
108-90-7	Chlorobenzene	35	
100-41-4	Ethylbenzene	2100	E
100-42-5	Styrene	25	U
1330-20-7	Xylene (total)	11000	E

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03V

Sample wt/vol: 2.5 (g/mL) G Lab File ID: EXQ03V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRIMETHYL CYCLOHEXANE ISOMER	13.38	310	J
2.	UNKNOWN ALKANE	16.43	520	J
3.	UNKNOWN	16.65	400	J
4.	UNKNOWN ALKANE	16.77	340	J
5.	UNKNOWN ALKYL BENZENE	16.95	500	J
6.	UNKNOWN ALKANE	17.18	400	J
7.	UNKNOWN ALKANE	17.42	510	J
8.	UNKNOWN	17.68	720	J
9. 103-65-1	PROPYL BENZENE	17.98	790	JN
10.	UNKNOWN ALKYL BENZENE	18.23	5000	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03DL

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03VR

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EXQ03VR

Level: (low/med) MED Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	7600	U
74-83-9	Bromomethane	7600	U
75-01-4	Vinyl Chloride	7600	U
75-00-3	Chloroethane	7600	U
75-09-2	Methylene Chloride	10000	BD u
67-64-1	Acetone	7600	U
75-15-0	Carbon Disulfide	7600	U
75-35-4	1,1-Dichloroethene	7600	U
75-34-3	1,1-Dichloroethane	7600	U
540-59-0	1,2-Dichloroethene (total)	7600	U
67-66-3	Chloroform	7600	U
107-06-2	1,2-Dichloroethane	7600	U
78-93-3	2-Butanone	7600 ~~7200~~	BDJ u
71-55-6	1,1,1-Trichloroethane	7600	U
56-23-5	Carbon Tetrachloride	7600	U
75-27-4	Bromodichloromethane	7600	U
78-87-5	1,2-Dichloropropane	7600	U
10061-01-5	cis-1,3-Dichloropropene	7600	U
79-01-6	Trichloroethene	7600	U
124-48-1	Dibromochloromethane	7600	U
79-00-5	1,1,2-Trichloroethane	7600	U
71-43-2	Benzene	7600	U
10061-02-6	trans-1,3-Dichloropropene	7600	U
75-25-2	Bromoform	7600	U
108-10-1	4-Methyl-2-Pentanone	7600	U
591-78-6	2-Hexanone	7600	U
127-18-4	Tetrachloroethene	7600	U
79-34-5	1,1,2,2-Tetrachloroethane	7600	U
108-88-3	Toluene	1200	DJ
108-90-7	Chlorobenzene	7600	U
100-41-4	Ethylbenzene	21000	D
100-42-5	Styrene	7600	U
1330-20-7	Xylene (total)	240000	D

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ03DL

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03VR

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EXQ03VR

Level: (low/med) MED Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	DIMETHYL CYCLOHEXANE ISOMER	11.97	4300	J
2.	TRIMETHYL CYCLOHEXANE ISOMER	13.38	6000	J
3.	UNKNOWN ALKANE	16.45	9200	J
4.	UNKNOWN	16.67	10000	J
5.	UNKNOWN ALKYL BENZENE	16.97	8900	J
6. 6783-92-2	1,1,2,3-TETRAMETHYL CYCLOHEX	17.72	24000	JN
7. 103-65-1	PROPYL BENZENE	18.00	19000	JN
8.	UNKNOWN ALKYL BENZENE	18.25	210000	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ04VR

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ04VR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 25 Date Analyzed: 11/12/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~7~~	BJ ~~U~~ ACH 12-20-93
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ04VR

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ04VR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 25 Date Analyzed: 11/12/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ05V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ05V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 19 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ05V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ05V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 19 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ06V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ06V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 24 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~4~~	BJ u
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ06V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ06V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 24 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ07V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 9 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~2~~	BJ u
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ07V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 9 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ08V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ08V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~3~~	BJ u
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ08V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ08V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ09V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ09V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 10 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~2~~	BJ u
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	6	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ09V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ09V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 10 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ10V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 9 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~3~~	BJ u
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ10V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 9 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ11V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ11V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 13 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~2~~	BJ μ
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ11V

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ11V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 13 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ12V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	13	B u
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ12V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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EPA SAMPLE NO.

EXQ14

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ14V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ14V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
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EPA SAMPLE NO.

EXQ14

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ14V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ14V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ15

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ15V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ15V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

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

acH 12-20-93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ15

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ15V

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ15V

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EXQ12	75	70	96	72	98	85	66	61	0
02	EXQ12MS	95	88	97	90	90	96	82	76	0
03	EXQ12MSD	92	83	97	90	119 *	89	82	72	1
04	SBLK01	86	77	96	83	137 *	94	76	65	1

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EXQ02	35	36	33	31	31	32	30	34	0
02	EXQ03	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
03	EXQ04	34	35	36	33	30	33	31	32	0
04	EXQ05	40	39	36	35	36	34	34	39	0
05	EXQ06	36	37	33	30	32	35	30	35	0
06	EXQ07	35	35	55	30	31	28	29	33	0
07	EXQ07DL	30	33	43	30	28	31	29	33	0
08	EXQ08	36	38	55	34	32	38	32	34	0
09	EXQ09	35	37	40	34	32	34	32	34	0
10	EXQ10	42	41	59	38	38	34	35	40	0
11	EXQ10RE	37	41	46	37	35	39	36	40	0
12	EXQ11	38	39	55	35	35	38	35	38	0
13	EXQ02MS	38	40	53	35	35	40	35	39	0
14	EXQ02MSD	40	42	63	41	38	41	39	41	0
15	SBLK02	31	36	32	31	31	33	30	33	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

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

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ12

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	62.40	83	12-110
2-Chlorophenol	75.00	0	69.10	92	27-123
1,4-Dichlorobenzene	50.00	0	40.64	81	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0	41.74	83	41-116
1,2,4-Trichlorobenzene	50.00	0	42.97	86	39- 98
4-Chloro-3-methylphenol	75.00	0	74.45	99 *	23- 97
Acenaphthene	50.00	0	47.36	95	46-118
4-Nitrophenol	75.00	0	74.45	99 *	10- 80
2,4-Dinitrotoluene	50.00	0	50.05	100 *	24- 96
Pentachlorophenol	75.00	0	84.05	112 *	9-103
Pyrene	50.00	0	49.87	100	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	61.60	82	1	42	12-110
2-Chlorophenol	75.00	70.35	94	2	40	27-123
1,4-Dichlorobenzene	50.00	39.38	79	2	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	41.85	84	1	38	41-116
1,2,4-Trichlorobenzene	50.00	40.22	80	7	28	39- 98
4-Chloro-3-methylphenol	75.00	72.20	96	3	42	23- 97
Acenaphthene	50.00	45.56	91	4	31	46-118
4-Nitrophenol	75.00	67.90	91 *	8	50	10- 80
2,4-Dinitrotoluene	50.00	46.32	93	7	38	24- 96
Pentachlorophenol	75.00	81.55	109 *	3	50	9-103
Pyrene	50.00	50.50	101	1	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 6 out of 22 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ02 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3170	0	1255	40	26- 90
2-Chlorophenol	3170	0	1305	41	25-102
1,4-Dichlorobenzene	2110	0	759.7	36	28-104
N-Nitroso-di-n-prop.(1)	2110	0	726.3	34 *	41-126
1,2,4-Trichlorobenzene	2110	0	783.0	37 *	38-107
4-Chloro-3-methylphenol	3170	0	1263	40	26-103
Acenaphthene	2110	0	843.2	40	31-137
4-Nitrophenol	3170	0	1354	43	11-114
2,4-Dinitrotoluene	2110	0	855.3	41	28- 89
Pentachlorophenol	3170	0	1737	55	17-109
Pyrene	2110	0	1283	61	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3170	1397	44	10	35	26- 90
2-Chlorophenol	3170	1402	44	7	50	25-102
1,4-Dichlorobenzene	2110	837.9	40	11	27	28-104
N-Nitroso-di-n-prop.(1)	2110	788.3	37 *	8	38	41-126
1,2,4-Trichlorobenzene	2110	835.4	40	8	23	38-107
4-Chloro-3-methylphenol	3170	1376	43	7	33	26-103
Acenaphthene	2110	863.3	41	2	19	31-137
4-Nitrophenol	3170	1519	48	11	50	11-114
2,4-Dinitrotoluene	2110	890.0	42	2	47	28- 89
Pentachlorophenol	3170	1205	38	37	47	17-109
Pyrene	2110	1570	74	19	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: LWB1108 Lab Sample ID: LWB1108

Instrument ID: 025 Date Extracted: 11/08/93

Matrix: (soil/water) WATER Date Analyzed: 11/24/93

Level:(low/med) LOW Time Analyzed: 1728

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EXQ12	EXQ12B	EXQ12B	11/24/93
02	EXQ12MS	EXQ12BM	EXQ12BM	11/24/93
03	EXQ12MSD	EXQ12BD	EXQ12BD	11/24/93

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: LSB1111A Lab Sample ID: LSB1111A

Instrument ID: 001 Date Extracted: 11/11/93

Matrix: (soil/water) SOIL Date Analyzed: 12/01/93

Level:(low/med) LOW Time Analyzed: 1903

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EXQ02	EXQ02B	EXQ02B	12/01/93
02	EXQ03	EXQ03B	EXQ03B	12/03/93
03	EXQ04	EXQ04BR	EXQ04BR	12/02/93
04	EXQ05	EXQ05B	EXQ05B	12/01/93
05	EXQ06	EXQ06B	EXQ06B	12/01/93
06	EXQ07	EXQ07B	EXQ07B	12/02/93
07	EXQ07DL	EXQ07BR	EXQ07BR	12/02/93
08	EXQ08	EXQ08BR	EXQ08BR	12/02/93
09	EXQ09	EXQ09BR	EXQ09BR	12/02/93
10	EXQ10	EXQ10B	EXQ10B	12/02/93
11	EXQ10RE	EXQ10BR	EXQ10BR	12/02/93
12	EXQ11	EXQ11BR	EXQ11BR	12/02/93
13	EXQ02MS	EXQ02BMR	EXQ02BMR	12/02/93
14	EXQ02MSD	EXQ02BDR	EXQ02BDR	12/02/93

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: LWB1108

Sample wt/vol: 1000 (g/mL) ML Lab File ID: LWB1108

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: LWB1108

Sample wt/vol: 1000 (g/mL) ML Lab File ID: LWB1108

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	1	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octylphthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: LWB1108

Sample wt/vol: 1000 (g/mL) ML Lab File ID: LWB1108

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	18.63	3	J
2. 4130-42-1	2,-BIS(1,1-DIMETHYLETHYL)-4-	19.58	4	JN
3. 80-07-9	1,1'-SULFONYLBIS[4-CHLORO-BE	28.35	73	JN
4. 791-28-6	TRIPHENYLPHOSPHINE OXIDE	30.98	35	JN
5. 2959-74-2	DIPHENYL(PHENYLMETHYL)-PHOSP	31.53	14	JN
6.	UNKNOWN ALKANE	31.62	3	J
7.	UNKNOWN ALKANE	32.40	3	J
8.	UNKNOWN ALKANE	33.15	3	J
9.	UNKNOWN ALKANE	33.88	3	J
10.	UNKNOWN ALKANE	34.58	2	J
11.	UNKNOWN ALKANE	35.25	2	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: LSB1111A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: LSB1111A

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: LSB1111A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: LSB1111A

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(A) anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octylphthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: LSB1111A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: LSB1111A

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.67	370	J
2.	UNKNOWN	27.85	110	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A) anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	39	J
117-84-0	Di-n-Octylphthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.75	620	J
2.	UNKNOWN	6.85	130	J
3.	UNKNOWN ORGANIC ACID	22.92	210	J
4.	UNKNOWN	24.95	140	J
5.	UNKNOWN	25.03	190	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ03B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/03/93

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	21000	U
111-44-4	bis(2-Chloroethyl)Ether	21000	U
95-57-8	2-Chlorophenol	21000	U
541-73-1	1,3-Dichlorobenzene	21000	U
106-46-7	1,4-Dichlorobenzene	21000	U
95-50-1	1,2-Dichlorobenzene	21000	U
95-48-7	2-Methylphenol	21000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	21000	U
106-44-5	4-Methylphenol	21000	U
621-64-7	N-Nitroso-Di-n-Propylamine	21000	U
67-72-1	Hexachloroethane	21000	U
98-95-3	Nitrobenzene	21000	U
78-59-1	Isophorone	21000	U
88-75-5	2-Nitrophenol	21000	U
105-67-9	2,4-Dimethylphenol	21000	U
111-91-1	bis(2-Chloroethoxy)Methane	21000	U
120-83-2	2,4-Dichlorophenol	21000	U
120-82-1	1,2,4-Trichlorobenzene	21000	U
91-20-3	Naphthalene	5200	J
106-47-8	4-Chloroaniline	21000	U
87-68-3	Hexachlorobutadiene	21000	U
59-50-7	4-Chloro-3-Methylphenol	21000	U
91-57-6	2-Methylnaphthalene	1300	J
77-47-4	Hexachlorocyclopentadiene	21000	U
88-06-2	2,4,6-Trichlorophenol	21000	U
95-95-4	2,4,5-Trichlorophenol	51000	U
91-58-7	2-Chloronaphthalene	21000	U
88-74-4	2-Nitroaniline	51000	U
131-11-3	Dimethylphthalate	21000	U
208-96-8	Acenaphthylene	21000	U
606-20-2	2,6-Dinitrotoluene	21000	U
99-09-2	3-Nitroaniline	51000	U
83-32-9	Acenaphthene	21000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ03B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/03/93

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	51000	U
100-02-7	4-Nitrophenol	51000	U
132-64-9	Dibenzofuran	21000	U
121-14-2	2,4-Dinitrotoluene	21000	U
84-66-2	Diethylphthalate	21000	U
7005-72-3	4-Chlorophenyl-phenylether	21000	U
86-73-7	Fluorene	21000	U
100-01-6	4-Nitroaniline	51000	U
534-52-1	4,6-Dinitro-2-Methylphenol	51000	U
86-30-6	N-Nitrosodiphenylamine (1)	21000	U
101-55-3	4-Bromophenyl-phenylether	21000	U
118-74-1	Hexachlorobenzene	21000	U
87-86-5	Pentachlorophenol	51000	U
85-01-8	Phenanthrene	21000	U
120-12-7	Anthracene	21000	U
86-74-8	Carbazole	21000	U
84-74-2	Di-n-Butylphthalate	66000	
206-44-0	Fluoranthene	21000	U
129-00-0	Pyrene	21000	U
85-68-7	Butylbenzylphthalate	21000	U
91-94-1	3,3'-Dichlorobenzidine	21000	U
56-55-3	Benzo(A) anthracene	21000	U
218-01-9	Chrysene	21000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	21000	U
117-84-0	Di-n-Octylphthalate	21000	U
205-99-2	Benzo(b)Fluoranthene	21000	U
207-08-9	Benzo(k)Fluoranthene	21000	U
50-32-8	Benzo(a)Pyrene	21000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	21000	U
53-70-3	Dibenz(a,h)Anthracene	21000	U
191-24-2	Benzo(g,h,i)Perylene	21000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ03B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/03/93

Injection Volume: 2.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKYL BENZENE	5.80	34000	J
2.	UNKNOWN ALKYL BENZENE	5.98	28000	J
3.	UNKNOWN ALKYL BENZENE	6.25	23000	J
4.	UNKNOWN ALKYL BENZENE	6.60	80000	J
5.	UNKNOWN ALKYL BENZENE	7.28	35000	J
6.	UNKNOWN ALKYL BENZENE	8.20	13000	J
7.	UNKNOWN	8.35	8900	J
8.	UNKNOWN ALKYL BENZENE	8.62	13000	J
9.	UNKNOWN ALKYL BENZENE	8.77	14000	J
10.	UNKNOWN ALKANE	9.25	8000	J
11.	UNKNOWN ALKYL BENZENE	9.42	7500	J
12.	UNKNOWN ALKYL BENZENE	9.50	12000	J
13. 85-44-9	1,3-ISOBENZOFURANDIONE	13.17	9100	JN
14.	UNKNOWN ORGANIC ACID	20.28	7200	J
15.	UNKNOWN	22.12	8500	J
16.	UNKNOWN ORGANIC ACID	23.00	50000	J
17.	UNKNOWN	23.98	13000	J
18.	UNKNOWN	25.10	30000	J
19.	UNKNOWN ORGANIC ACID	25.37	11000	J
20.	UNKNOWN ALKANE	30.00	7300	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ04BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ04BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-Di-n-Propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)Methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ04BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ04BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-Methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	53	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-Butylphthalate	31	J
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(A) anthracene	53	J
218-01-9	Chrysene	90	J
117-81-7	bis(2-Ethylhexyl)Phthalate	39	J
117-84-0	Di-n-Octylphthalate	440	U
205-99-2	Benzo(b)Fluoranthene	120	J
207-08-9	Benzo(k)Fluoranthene	440	U
50-32-8	Benzo(a)Pyrene	55	J
193-39-5	Indeno(1,2,3-cd)Pyrene	440	U
53-70-3	Dibenz(a,h)Anthracene	440	U
191-24-2	Benzo(g,h,i)Perylene	440	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ04BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ04BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.72	880	J
2.	UNKNOWN	6.80	160	J
3.	UNKNOWN SILOXANE	7.20	640	J
4.	UNKNOWN SILOXANE	13.75	460	J
5.	UNKNOWN SILOXANE	16.53	250	J
6.	UNKNOWN SILOXANE	19.03	140	J
7.	UNKNOWN SILOXANE	21.22	110	J
8.	UNKNOWN ORGANIC ACID	22.83	140	J
9.	UNKNOWN SILOXANE	24.98	87	J
10.	UNKNOWN POLYNUCLEAR AROMATIC	32.13	120	J
11.	UNKNOWN	33.45	330	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ05B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ05B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	990	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ05B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ05B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-Methylphenol	990	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-Butylphthalate	410	U
206-44-0	Fluoranthene	41	J
129-00-0	Pyrene	34	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(A) anthracene	410	U
218-01-9	Chrysene	30	J
117-81-7	bis(2-Ethylhexyl)Phthalate	410	U
117-84-0	Di-n-Octylphthalate	410	U
205-99-2	Benzo(b)Fluoranthene	410	U
207-08-9	Benzo(k)Fluoranthene	410	U
50-32-8	Benzo(a)Pyrene	410	U
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3	Dibenz(a,h)Anthracene	410	U
191-24-2	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ05B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ05B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.82	1100	J
2.	UNKNOWN	6.85	110	J
3.	UNKNOWN	21.15	170	J
4.	UNKNOWN	21.25	130	J
5.	UNKNOWN	22.65	140	J
6.	UNKNOWN	22.75	85	J
7.	UNKNOWN ORGANIC ACID	22.90	240	J
8.	UNKNOWN	23.45	150	J
9.	UNKNOWN	25.05	100	J
10.	UNKNOWN ALKANE	31.08	440	J
11.	UNKNOWN	32.60	160	J
12.	UNKNOWN	33.45	650	J
13.	UNKNOWN	36.62	170	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ06B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ06B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ06B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ06B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-Methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-Butylphthalate	36	J
206-44-0	Fluoranthene	46	J
129-00-0	Pyrene	35	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(A) anthracene	430	U
218-01-9	Chrysene	37	J
117-81-7	bis(2-Ethylhexyl)Phthalate	29	J
117-84-0	Di-n-Octylphthalate	430	U
205-99-2	Benzo(b)Fluoranthene	430	U
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ06B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ06B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.73	560	J
2.	UNKNOWN	6.83	100	J
3.	UNKNOWN	21.15	170	J
4.	UNKNOWN	21.25	120	J
5.	UNKNOWN	22.65	180	J
6.	UNKNOWN	22.75	110	J
7.	UNKNOWN ORGANIC ACID	22.92	290	J
8.	UNKNOWN	23.45	140	J
9.	UNKNOWN	28.85	93	J
10.	UNKNOWN ALKANE	31.08	720	J
11.	UNKNOWN ALKANE	32.18	120	J
12.	UNKNOWN	32.60	190	J
13.	UNKNOWN ALKANE	33.45	890	J
14.	UNKNOWN	36.57	210	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	120	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	76	J
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	170	J
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-Methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	1800	E
120-12-7	Anthracene	340	J
86-74-8	Carbazole	210	J
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	2200	E
129-00-0	Pyrene	3500	E
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(A) anthracene	960	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)Phthalate	140	J
117-84-0	Di-n-Octylphthalate	360	U
205-99-2	Benzo(b)Fluoranthene	1400	
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	790	
193-39-5	Indeno(1,2,3-cd)Pyrene	470	
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	700	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.75	450	J
2.	UNKNOWN	5.67	180	J
3. 85-44-9	1,3-ISOBIENZOFURANDIONE	13.23	320	JN
4. 132-65-0	DIBENZOTHIOPHENE	19.97	83	JN
5.	UNKNOWN PHTHALATE	21.35	190	J
6.	UNKNOWN POLYNUCLEAR AROMATIC	21.87	130	J
7.	UNKNOWN POLYNUCLEAR AROMATIC	21.93	160	J
8.	UNKNOWN POLYNUCLEAR AROMATIC	22.13	340	J
9.	UNKNOWN POLYNUCLEAR AROMATIC	22.25	92	J
10.	UNKNOWN POLYNUCLEAR AROMATIC	22.85	220	J
11.	UNKNOWN	24.65	480	J
12.	UNKNOWN	25.02	220	J
13.	UNKNOWN POLYNUCLEAR AROMATIC	25.68	340	J
14.	UNKNOWN POLYNUCLEAR AROMATIC	25.88	260	J
15.	UNKNOWN POLYNUCLEAR AROMATIC	26.05	79	J
16.	UNKNOWN POLYNUCLEAR AROMATIC	26.18	75	J
17.	UNKNOWN POLYNUCLEAR AROMATIC	27.63	150	J
18.	UNKNOWN POLYNUCLEAR AROMATIC	28.58	170	J
19.	UNKNOWN	31.05	610	J
20.	UNKNOWN POLYNUCLEAR AROMATIC	32.27	1000	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07DL

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	730	U
111-44-4	bis(2-Chloroethyl)Ether	730	U
95-57-8	2-Chlorophenol	730	U
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
95-48-7	2-Methylphenol	730	U
108-60-1	2,2'-oxybis(1-Chloropropane)	730	U
106-44-5	4-Methylphenol	730	U
621-64-7	N-Nitroso-Di-n-Propylamine	730	U
67-72-1	Hexachloroethane	730	U
98-95-3	Nitrobenzene	730	U
78-59-1	Isophorone	730	U
88-75-5	2-Nitrophenol	730	U
105-67-9	2,4-Dimethylphenol	730	U
111-91-1	bis(2-Chloroethoxy)Methane	730	U
120-83-2	2,4-Dichlorophenol	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U
91-20-3	Naphthalene	730	U
106-47-8	4-Chloroaniline	730	U
87-68-3	Hexachlorobutadiene	730	U
59-50-7	4-Chloro-3-Methylphenol	730	U
91-57-6	2-Methylnaphthalene	730	U
77-47-4	Hexachlorocyclopentadiene	730	U
88-06-2	2,4,6-Trichlorophenol	730	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	730	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	730	U
208-96-8	Acenaphthylene	730	U
606-20-2	2,6-Dinitrotoluene	730	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	110	DJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07DL

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	69	DJ
121-14-2	2,4-Dinitrotoluene	730	U
84-66-2	Diethylphthalate	730	U
7005-72-3	4-Chlorophenyl-phenylether	730	U
86-73-7	Fluorene	160	DJ
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	730	U
101-55-3	4-Bromophenyl-phenylether	730	U
118-74-1	Hexachlorobenzene	730	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	2000	D
120-12-7	Anthracene	380	DJ
86-74-8	Carbazole	250	DJ
84-74-2	Di-n-Butylphthalate	730	U
206-44-0	Fluoranthene	2800	D
129-00-0	Pyrene	2800	D
85-68-7	Butylbenzylphthalate	730	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(A) anthracene	960	D
218-01-9	Chrysene	1300	D
117-81-7	bis(2-Ethylhexyl)Phthalate	120	DJ
117-84-0	Di-n-Octylphthalate	730	U
205-99-2	Benzo(b)Fluoranthene	1200	D
207-08-9	Benzo(k)Fluoranthene	730	U
50-32-8	Benzo(a)Pyrene	740	D
193-39-5	Indeno(1,2,3-cd)Pyrene	460	DJ
53-70-3	Dibenz(a,h)Anthracene	730	U
191-24-2	Benzo(g,h,i)Perylene	530	DJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ07DL

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ07BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ07BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.62	420	J
2.	UNKNOWN	5.57	190	J
3.	UNKNOWN SILOXANE	7.20	320	J
4.	UNKNOWN SILOXANE	13.75	280	J
5.	UNKNOWN SILOXANE	16.53	180	J
6.	UNKNOWN SILOXANE	19.03	160	J
7.	UNKNOWN SILOXANE	21.22	150	J
8.	UNKNOWN POLYNUCLEAR AROMATIC	21.85	170	J
9.	UNKNOWN POLYNUCLEAR AROMATIC	22.03	340	J
10.	UNKNOWN	22.73	240	J
11.	UNKNOWN	24.53	460	J
12.	UNKNOWN	24.92	200	J
13.	UNKNOWN POLYNUCLEAR AROMATIC	25.58	360	J
14.	UNKNOWN POLYNUCLEAR AROMATIC	25.78	270	J
15.	UNKNOWN POLYNUCLEAR AROMATIC	27.53	190	J
16.	UNKNOWN POLYNUCLEAR AROMATIC	28.48	190	J
17.	UNKNOWN	31.08	220	J
18.	UNKNOWN POLYNUCLEAR AROMATIC	31.70	180	J
19.	UNKNOWN POLYNUCLEAR AROMATIC	32.17	770	J
20.	UNKNOWN	33.52	150	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ08BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ08BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	32	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ08BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ08BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	43	J
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	740	
120-12-7	Anthracene	140	J
86-74-8	Carbazole	86	J
84-74-2	Di-n-Butylphthalate	36	J
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	43	J
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A) anthracene	520	
218-01-9	Chrysene	820	
117-81-7	bis(2-Ethylhexyl)Phthalate	130	J
117-84-0	Di-n-Octylphthalate	420	U
205-99-2	Benzo(b)Fluoranthene	960	
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	500	
193-39-5	Indeno(1,2,3-cd)Pyrene	690	
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	410	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ08BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ08BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.67	550	J
2.	UNKNOWN	5.58	120	J
3.	UNKNOWN	6.82	180	J
4.	UNKNOWN SILOXANE	7.22	490	J
5.	UNKNOWN SILOXANE	13.77	360	J
6.	UNKNOWN SILOXANE	16.55	190	J
7.	UNKNOWN SILOXANE	19.05	110	J
8.	UNKNOWN POLYNUCLEAR AROMATIC	22.05	140	J
9.	UNKNOWN	22.62	140	J
10. 84-65-1	9,10-ANTHRACEDIONE	22.75	130	JN
11.	UNKNOWN ORGANIC ACID	22.88	220	J
12.	UNKNOWN	24.57	290	J
13.	UNKNOWN	24.97	170	J
14.	UNKNOWN POLYNUCLEAR AROMATIC	25.62	190	J
15.	UNKNOWN POLYNUCLEAR AROMATIC	25.82	140	J
16.	UNKNOWN SILOXANE	26.67	110	J
17.	UNKNOWN POLYNUCLEAR AROMATIC	27.57	120	J
18.	UNKNOWN POLYNUCLEAR AROMATIC	28.33	630	J
19.	UNKNOWN POLYNUCLEAR AROMATIC	28.52	120	J
20.	UNKNOWN POLYNUCLEAR AROMATIC	32.22	670	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ09BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ09BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 10 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ09BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ09BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 10 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	890	U
534-52-1	4,6-Dinitro-2-Methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	42	J
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	97	J
129-00-0	Pyrene	92	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(A) anthracene	37	J
218-01-9	Chrysene	62	J
117-81-7	bis(2-Ethylhexyl)Phthalate	41	J
117-84-0	Di-n-Octylphthalate	370	U
205-99-2	Benzo(b)Fluoranthene	73	J
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	36	J
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ09BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ09BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 10 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.60	500	J
2.	UNKNOWN	5.55	110	J
3.	UNKNOWN	6.77	110	J
4.	UNKNOWN SILOXANE	7.18	180	J
5.	UNKNOWN SILOXANE	13.75	110	J
6.	UNKNOWN SILOXANE	16.53	78	J
7.	UNKNOWN	31.05	100	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-Methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	21	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	300	J
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(A) anthracene	97	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)Phthalate	58	J
117-84-0	Di-n-Octylphthalate	360	U
205-99-2	Benzo(b)Fluoranthene	230	J
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	110	J
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.75	540	J
2.	UNKNOWN	5.67	120	J
3.	UNKNOWN	6.88	190	J
4. 85-44-9	1,3-ISOBENZOFURANDIONE	13.27	380	JN
5.	UNKNOWN PHTHALATE	21.37	220	J
6.	UNKNOWN	24.38	83	J
7.	UNKNOWN ALKANE	24.58	77	J
8.	UNKNOWN ALKANE	25.73	82	J
9.	UNKNOWN ALKANE	26.85	110	J
10.	UNKNOWN	27.92	260	J
11.	UNKNOWN ALKANE	29.00	82	J
12.	UNKNOWN	29.20	92	J
13.	UNKNOWN ALKANE	30.07	76	J
14.	UNKNOWN	30.72	230	J
15.	UNKNOWN	31.03	570	J
16.	UNKNOWN POLYNUCLEAR AROMATIC	32.23	240	J
17.	UNKNOWN	33.52	140	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10RE

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	31	J
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10RE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-Methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	25	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	280	J
206-44-0	Fluoranthene	290	J
129-00-0	Pyrene	290	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(A) anthracene	110	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)Phthalate	42	J
117-84-0	Di-n-Octylphthalate	360	U
205-99-2	Benzo(b)Fluoranthene	230	J
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	130	J
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ10RE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ10BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ10BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.62	530	J
2.	UNKNOWN	5.55	120	J
3.	UNKNOWN	6.78	160	J
4.	UNKNOWN SILOXANE	7.18	420	J
5.	UNKNOWN SILOXANE	13.75	280	J
6.	UNKNOWN SILOXANE	16.53	170	J
7.	UNKNOWN SILOXANE	19.03	120	J
8.	UNKNOWN SILOXANE	21.20	85	J
9.	UNKNOWN ALKANE	27.82	130	J
10.	UNKNOWN	28.82	100	J
11.	UNKNOWN ALKANE	31.07	220	J
12.	UNKNOWN POLYNUCLEAR AROMATIC	32.13	170	J
13.	UNKNOWN	33.50	82	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ11BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ11BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	920	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	110	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ11BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ11BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	65	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	150	J
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-Methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	1600	
120-12-7	Anthracene	300	J
86-74-8	Carbazole	230	J
84-74-2	Di-n-Butylphthalate	21	J
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	2600	
85-68-7	Butylbenzylphthalate	18	J
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(A) anthracene	870	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)Phthalate	97	J
117-84-0	Di-n-Octylphthalate	380	U
205-99-2	Benzo(b)Fluoranthene	1200	
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	610	
193-39-5	Indeno(1,2,3-cd)Pyrene	640	
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	480	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ11BR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ11BR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.67	570	J
2.	UNKNOWN	6.80	120	J
3.	UNKNOWN SILOXANE	7.20	430	J
4.	UNKNOWN SILOXANE	13.75	340	J
5.	UNKNOWN SILOXANE	16.53	170	J
6.	UNKNOWN SILOXANE	19.05	98	J
7.	UNKNOWN SILOXANE	21.22	83	J
8.	UNKNOWN POLYNUCLEAR AROMATIC	21.87	120	J
9.	UNKNOWN POLYNUCLEAR AROMATIC	22.05	260	J
10.	UNKNOWN	22.62	130	J
11.	UNKNOWN ORGANIC ACID	22.90	250	J
12.	UNKNOWN	24.57	360	J
13.	UNKNOWN	24.95	190	J
14.	UNKNOWN POLYNUCLEAR AROMATIC	25.62	230	J
15.	UNKNOWN POLYNUCLEAR AROMATIC	25.82	170	J
16.	UNKNOWN POLYNUCLEAR AROMATIC	27.43	970	J
17.	UNKNOWN POLYNUCLEAR AROMATIC	27.57	1800	J
18.	UNKNOWN	27.83	1900	J
19.	UNKNOWN POLYNUCLEAR AROMATIC	28.52	1500	J
20.	UNKNOWN POLYNUCLEAR AROMATIC	32.20	890	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~2~~	BJ u
117-84-0	Di-n-Octylphthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

acH 12-20-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12B

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKW1	77	88	56*	56*			2
02	EXQ12	78	84	63	64			0
03	EXQ12MS	84	90	68	68			0
04	EXQ12MSD	80	86	70	68			0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKL1	0*	4*	43*	44*			4
02	EXQ02	41*	46*	44*	49*			4
03	EXQ03	32*	35*	438*	538*			4
04	EXQ04	43*	49*	22*	27*			4
05	EXQ05	34*	41*	34*	42*			4
06	EXQ06	34*	38*	24*	29*			4
07	EXQ07	38*	48*	18*	61			3
08	EXQ08	42*	48*	15*	40*			4
09	EXQ09	46*	55*	20*	26*			4
10	EXQ10	41*	46*	21*	29*			4
11	EXQ11	45*	55*	21*	40*			4
12	EXQ02MS	34*	40*	89	100			2
13	EXQ02MSD	58*	66	72	86			1

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)
DCB = Decachlorobiphenyl (60-150)

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

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ12

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.535	107	56-123
Heptachlor	0.500	0	0.519	104	40-131
Aldrin	0.500	0	0.567	113	40-120
Dieldrin	1.000	0	1.16	116	52-126
Endrin	1.000	0	1.06	106	56-121
4,4'-DDT	1.000	0	1.13	113	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.512	102	5	15	56-123
Heptachlor	0.500	0.494	99	5	20	40-131
Aldrin	0.500	0.543	109	4	22	40-120
Dieldrin	1.000	1.14	114	2	18	52-126
Endrin	1.000	1.04	104	2	21	56-121
4,4'-DDT	1.000	1.13	113	0	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix Spike - EPA Sample No.: EXQ02

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.100	0	9.23	44 *	46-127
Heptachlor	21.100	0	8.96	42	35-130
Aldrin	21.100	0	10.8	51	34-132
Dieldrin	42.200	0	21.5	51	31-134
Endrin	42.200	0	22.7	54	42-139
4,4'-DDT	42.200	0	77.9	185 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	21.100	15.5	73	50	50	46-127
Heptachlor	21.100	15.3	73	54 *	31	35-130
Aldrin	21.100	17.4	82	47 *	43	34-132
Dieldrin	42.200	30.4	72	34	38	31-134
Endrin	42.200	31.3	74	31	45	42-139
4,4'-DDT	42.200	57.3	136 *	31	50	23-134

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

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 3 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW1

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID: MB110593-1 Lab File ID:

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 11/05/93

Date Analyzed (1): 11/29/93 Date Analyzed (2): 11/29/93

Time Analyzed (1): 2220 Time Analyzed (2): 2220

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column (1): DB-1701 ID: 0.32 (mm) GC Column (2): DB-17 ID: 0.32 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EXQ12	23955	11/29/93	11/29/93
02	EXQ12MS	23955MS	11/29/93	11/29/93
03	EXQ12MSD	23955MSD	11/29/93	11/29/93

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKL1

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID: MB111193-1 Lab File ID:

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 11/11/93

Date Analyzed (1): 11/30/93 Date Analyzed (2): 11/30/93

Time Analyzed (1): 0008 Time Analyzed (2): 0008

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column (1): DB-1701 ID: 0.32 (mm) GC Column (2): DB-17 ID: 0.32 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EXQ02	23944	11/30/93	11/30/93
02	EXQ03	23945	11/30/93	11/30/93
03	EXQ04	23946	11/30/93	11/30/93
04	EXQ05	23947	11/30/93	11/30/93
05	EXQ06	23948	11/30/93	11/30/93
06	EXQ07	23949	11/30/93	11/30/93
07	EXQ08	23950	11/30/93	11/30/93
08	EXQ09	23951	11/30/93	11/30/93
09	EXQ10	23952	11/30/93	11/30/93
10	EXQ11	23953	11/30/93	11/30/93
11	EXQ02MS	23944MS	11/30/93	11/30/93
12	EXQ02MSD	23944MSD	11/30/93	11/30/93

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: MB110593-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKL1

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: MB111193-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23944

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	250	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23945

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	3.0	PX
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	8.3	P
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	5.6	PX
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.6	
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	470	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23946

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 25 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	2.8	JP
72-55-9	4,4'-DDE	8.8	
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	40	
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23947

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	12	
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	11	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	2.7	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23948

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	12	
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	12	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23949

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	11	
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	5.2	PX
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	13	P
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23950

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.7	
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	5.3	
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	10	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	1.9	JP
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23951

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 10 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	P
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	2.6	J
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	1.6	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23952

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	1.5	JP
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	2.9	J
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	4.5	PX
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	0.79	JP
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23953

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 13 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.4	PX
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	4.7	PX
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	7.3	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	2.5	JP
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: 23955

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (IU)

Case No. 21170 Site Name Location: O'Hara Property

Contractor or EPA Lab: Enrotec Data User: IEPA

No. of Samples: ~~14~~ 13 Date Samples or Data Received: 12-10-93

Have Chain-of-Custody records been received? YES ✓ NO____
Have traffic reports or packing lists been received? YES ✓ NO____
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? YES ✓ NO____
No. of samples claimed: ~~14~~ 13 No. of samples received: ~~14~~ 13

Received by: A D Harris Date: 12-10-93

Received by LSSS: Dorothy M. May Date: 12/13/93

Review started: 12/20/93 Reviewer Signature: Allison C Harvey

Total time spent on review: 14.5 hr Date review completed:_____

Copied by: Freddie Hopkins Date: 1/5/94

Mailed to user by: A D Harris Date: 1-6-94

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ESCRL

Data received by:_____ Date:_____

Data review received by:_____ Date:_____
Inorganic Data Complete( ] Suitable for Intended Purpose( ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose( ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose( ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose( ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____
_____

Received by Data Mgmt. Coordinator for Files Date:_____

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 21170 SDG No. EX402 SDG Nos. To Follow _____ _____ _____ SAS No. _____ Date Recvd 12/10/93

EPA Lab ID: Encotec

Lab Location: Ann Arbor MI

Region: ___ Audit No.: _____

Re-Submitted CSF? Yes ___ No ___

Box No(s): _____

COMMENTS:

1+2 Custody Seals were present.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	✓		
2. Intact upon receipt?	✓		
FORM DC-2			
3. Numbering scheme accurate?	✓		
4. Are enclosed documents listed?	✓		
5. Are listed documents enclosed?	✓		
FORM DC-1			
6. Present?	✓		
7. Complete?	✓		
8. Accurate?	✓		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	✓		
10. Dated?	✓		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	✓		
12. Dated?	✓		
AIRBILLS/AIRBILL STICKER			
13. Present?	✓		
14. Signed?	✓		
15. Dated?	✓		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	✓		
17. Present?	✓		
OTHER DOCUMENTS			
18. Complete?	✓		
19. Legible?	✓		
20. Original?	✓		
20a. If "NO," does the copy indicate where original documents are located?			

Received by: A D Harris — A D Harris / Data Coord — Date 12/10/93

Audited by: Allison C. Harvey — Allison C Harvey / Organic Data Reviewer — Date 12/20/93

Audited by: _____ — _____ — Date __/__/__

Signature — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ___/___/___ Date Entered: ___/___/___ Date Reviewed: ___/___/___

Entered by: _____ _____

Reviewed by: _____ _____

Signature — Printed Name/Title

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME ENCOTEC
CITY STATE Ann Arbor MI
CASE NO. 21170 SDG NO. EX602 SDG NOS. TO FOLLOW NA
NA NA SAS NO. NA
CONTRACT NO. 68-D2-0012
SOW NO. OLM01.8

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B. SECTION II and SECTION III.)

	PAGE NOs FROM	TO	CHECK LAB	EPA
1 INVENTORY SHEET (Form DC-2) (Do not number)	NA	NA	T Nun 12/8/93	
2 SDG CASE NARRATIVE	1	6		
3 TRAFFIC REPORT	7	9		✓
4 VOLATILES DATA				✓
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	10	13		
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	14	16		✓
Method Blank Summary (Form IV VOA)	17	21		✓
GC/MS Instrument Performance Check (Form V VOA)	22	28		✓
Internal Standard Area and RT Summary (Form VIII VOA)	29	32		✓
b. Sample Data	33	240		✓
TCL Results - (Form I VOA)				✓
Tentatively Identified Compounds (Form I VOA-TIC)				✓
Reconstructed total ion chromatograms (RIC) for each sample or sample extract				✓
For each sample:				✓
Raw spectra and background-subtracted mass spectra of target compounds identified				
Mass spectra of all reported TICs with three best library matches				✓
c. Standards Data (All Instruments)				✓
Initial Calibration Data (Form VI VOA)	241	244		
RICs and Quan Reports for all Standards	245	304		✓
Continuing Calibration (Form VII VOA)	305	309		✓
RICs and Quan Reports for all Standards	310	325		✓
d. Raw QC Data				✓
BFB	326	347		
Blank Data	348	~~4~~ 391		✓
Matrix Spike Data	392 ~~4~~	400		✓
Matrix Spike Duplicate Data	401	409		✓
				✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 21170 SDG NO. EX602 SDG NOS. TO FOLLOW NA
NA NA SAS NO. NA

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5 Semivolatiles Data				
a. QC Summary			TKM 12/8/93	
Surrogate Percent Recovery Summary (Form II SV)	410	412		✓
MS/MSD Summary (Form III SV)	413	414		✓
Method Blank Summary (Form IV SV)	415	416		✓
GC/MS Instrument Performance Check (Form V SV)	417	422		✓
Internal Standard Area and RT Summary (Form VIII SV)	423	428		✓
b. Sample Data	429	1293		✓
TCL Results (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-TIC)				✓
Reconstructed total ion chromatograms (RIC) for each sample, sample extract, standard blank, and spiked sample				✓
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds				✓
Mass spectra of TICs with three best library matches				✓
GPC chromatograms (if GPC performed)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)	1294	1298		✓
RICs and Quan Reports for all Standards	1299	1362		✓
Continuing Calibration (Form VII SV-1, SV-2)	1363	1370		✓
RICs and Quan Reports for all Standards	1371	1396 4		✓
Semivolatiles GPC Calibration Data-UV detector traces	1397 5	NA		✓
d. Raw QC Data				
DFTPP	1396	1414		✓
Blank Data	1415	1471		✓
Matrix Spike Data	1472	1476 81		✓
Matrix Spike Duplicate Data	1477 82	1492		✓
6 Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	1493	1495		✓
MS/MSD Duplicate Summary (Form III PEST)	1496	1497		✓
Method Blank Summary (Form IV PEST)	1498	1499		✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 21170 SDG NO. EKQ02 SDG NOS. TO FOLLOW NA
NA NA SAS NO. NA

	PAGE NOs FROM	TO	CHECK LAB	EPA
6 Pesticides (cont.)				
b. Sample Data	1500	1583	TKM 12/8/93	✓
TCL Results - Organic Analysis Data Sheet (Form I PEST)				✓
Chromatograms (Primary Column)				✓
Chromatograms from second GC column confirmation				✓
GC integration report or data system printout				✓
Manual work sheets				✓
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				✓
c. Standards Data				
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)	1584	1588		✓
Initial Calibration of Multicomponent Analytes (Form VI, PEST-3)	1589	1590 ~~1601~~		✓
Analyte Resolution Summary (Form VI PEST-4) 1591	~~1602~~	NA		✓
Calibration Verification Summary (Form VII PEST-1) 1592	~~1602~~	1601		✓
Calibration Verification Summary (Form VII PEST-2)	1602	1607		✓
Analytical Sequence (Form VIII PEST)	1608	1611		✓
Florisil Cartridge Check (Form IX PEST-1)	1612	NA		✓
Pesticide GPC Calibration (Form IX PEST-2)	1613	NA		✓
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)	1614	1626		✓
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)	1627	1630		✓
Chromatograms and data system printouts	1631	1748		✓
A print of retention times and corresponding peak areas or peak heights				
Pesticide GPC calibration data - UV detector traces	1749	NA		✓
d. Raw QC Data				
Blank Data	1750	1801		✓
Matrix Spike Data * 1802 - 1808	1802	1827	1818-1822	✓
Matrix Spike Duplicate Data 1809 - 1817	NA	NA	1823-27	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 21170 SDG NO. EX001 SDG NOS. TO FOLLOW NA
NA NA SAS NO. NA

	PAGE NOs FROM	TO	LAB	CHECK EPA
7 Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1828	1852	THM 12/8/93	✓
Internal sample and sample extract transfer chain-of-custody records	1853	1855		✓
Screening records	1856	1883		✓
All instrment output, including strip chats from screen activities (describe or list)	1884	1890		✓
	NA	NA		
	NA	NA		
8 EPA Shipping/Receiving Documents				
Airgill (No. of Shipments 1)	1891	1893		✓
Chain-of-custody records	1894	1900		✓
Sample Tags	1901	1918		✓
Sample Log-in Sheet (Lab & DC1)	1919	1921		✓
SDG Cover Sheet	1922	NA		✓
Miscellaneous Shipping/Receiving Records (describe or list)				
Misc. Login	1923	1926		✓
	NA	NA		
9 Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
# Other Records (describe or list)				
Telephone Communication Log	1927	1930		✓
	NA	NA		
	NA	NA		

Comments: NA = Not Applicable
* Combined Together

Completed by: Thomas H. Marshall (Signature) — Thomas H. Marshall / CLP Proj. Manager (Printed Name/Title) — 12/8/93 (Date)
(CLP Lab)

Audited by: Allison C. Harvey (Signature) — Allison C Harvey / Organic Data Reviewer (Printed Name/Title) — 12-20-93 (Date)
(EPA)

Form DC-2-4

Sample	Collect	Receipt	VOA Anal ok	SV Ext ok	SV Anal	Pest / PCB Ext ok	Pest / PCB Anal
S- EXQ02	11-2	11-4	11-11	11-11	12-1	11-11	11-30
S- EXQ03	11-2	11-4	11-11	11-11	12-3	11-11	11-30
S- EXQ04	11-2	11-4	11-12	11-11	12-2	11-11	11-30
S duplicate? EXQ05	11-2	11-4	11-11	11-11	12-1	11-11	11-30
S- EXQ06	11-2	11-4	11-11	11-11	12-1	11-11	11-30
S- EXQ07	11-2	11-4	11-11	11-11	12-2	11-11	11-30
S- EXQ08	11-2	11-4	11-11	11-11	12-2	11-11	11-30
S- EXQ09	11-2	11-4	11-11	11-11	12-2	11-11	11-30
S- EXQ10	11-2	11-4	11-11	11-11	12-2	11-11	11-30
S- EXQ11	11-2	11-4	11-11	11-11	12-2	11-11	11-30
W- EXQ12	11-3	11-4	11-13	11-8	11-24	11-5	11-29
W- EXQ14 TB		11-4	11-13				
W- EXQ15 TB		11-4	11-13				
EXQ03DL		1	11-13				
EXQ07DL				11-11	12-2		
EXQΦORE				11-11	12-2		

EXQ12 VOA sample broken

Unpreserved

MARCH 1993
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

APRIL 1993
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

MAY 1993
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31

JUNE 1993
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30

JULY 1993
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

AUGUST 1993
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

SEPTEMBER 1993
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

OCTOBER 1993
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

NOVEMBER 1993
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

ENVIRONMENTAL
CONTROL
TECHNOLOGY
CORPORATION

3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48108
313.761-1389

December 7, 1993

Ms. Linda Boynton
U.S. EPA Contract Laboratory Program
Sample Management Office (SMO)
300 N. Lee Street
Suite 200
Alexandria, Virginia 22314

RE: Case 21170 - SDG EXQ02, Diskette and Data Package Deliverable

Dear Ms. Boynton,

Please find the enclosed diskette and data package deliverable for Case 21170. Additional copies of the data package are being sent to EMSL-LV and Region V.

If you have any questions about this or any other matter, please feel free to contact me.

Very truly yours,

ENVIRONMENTAL CONTROL TECHNOLOGY CORPORATION

Thomas H. Marshall

Thomas H. Marshall
CLP Project Manager

THM/rej

Enclosure

cc: Region V
EMSL-LV

#75100

RECEIVED
DEC 10 1993
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

II. VOLATILE QC SUMMARY

CASE # 21170
SDG # EXQ02

US EPA [illegible] REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1111Z BFB Injection Date: 11/11/93

Instrument ID: 026 BFB Injection Time: 0843

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.38
75	30.0 - 66.0% of mass 95	54.92
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.350
173	Less than 2.0% of mass 174	0.0 (0)1
174	50.0 - 120.0% of mass 95	93.44
175	4.0 - 9.0% of mass 174	5.7 (6.100)1
176	93.0 - 101.0% of mass 174	90.9 (97.29)1
177	5.0 - 9.0% of mass 176	5.3 (5.880)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	200VZ1111	200VZ1111	11/11/93	0911
02	VSTD100	100VZ1111	100VZ1111	11/11/93	0943
03	VSTD050	50VZ1111	50VZ1111	11/11/93	1015
04	VSTD020	20VZ1111	20VZ1111	11/11/93	1048
05	VSTD010	10VZ1111	10VZ1111	11/11/93	1125

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1111Z1 BFB Injection Date: 11/11/93

Instrument ID: 026 BFB Injection Time: 1327

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.43
75	30.0 - 66.0% of mass 95	58.72
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.030
173	Less than 2.0% of mass 174	0.0 (0)1
174	50.0 - 120.0% of mass 95	82.46
175	4.0 - 9.0% of mass 174	5.1 (6.190)1
176	93.0 - 101.0% of mass 174	79.9 (96.95)1
177	5.0 - 9.0% of mass 176	4.8 (6.050)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50VZ1111Z	50VZ1111Z	11/11/93	1333
02	VBLKKZ	VSB1111Z	VSB1111Z	11/11/93	1447
03	EXQ02	EXQ02V	EXQ02V	11/11/93	1553
04	EXQ02MS	EXQ02VM	EXQ02VM	11/11/93	1626
05	EXQ02MSD	EXQ02VD	EXQ02VD	11/11/93	1659
06	EXQ03	EXQ03V	EXQ03V	11/11/93	1732
07	EXQ05	EXQ05V	EXQ05V	11/11/93	1839
08	EXQ06	EXQ06V	EXQ06V	11/11/93	1911
09	EXQ07	EXQ07V	EXQ07V	11/11/93	1945
10	EXQ08	EXQ08V	EXQ08V	11/11/93	2018
11	EXQ09	EXQ09V	EXQ09V	11/11/93	2051
12	EXQ10	EXQ10V	EXQ10V	11/11/93	2125
13	EXQ11	EXQ11V	EXQ11V	11/11/93	2158

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1112Z BFB Injection Date: 11/12/93

Instrument ID: 026 BFB Injection Time: 0904

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.57
75	30.0 - 66.0% of mass 95	56.19
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.200
173	Less than 2.0% of mass 174	0.0 (0)1
174	50.0 - 120.0% of mass 95	90.19
175	4.0 - 9.0% of mass 174	5.9 (6.490)1
176	93.0 - 101.0% of mass 174	90.3 (100.1)1
177	5.0 - 9.0% of mass 176	5.5 (6.120)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50VZ1112	50VZ1112	11/12/93	0917
02	VBLKLZ	VSB1112Z	VSB1112Z	11/12/93	1022
03	EXQ04	EXQ04VR	EXQ04VR	11/12/93	1054

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1113Z BFB Injection Date: 11/13/93

Instrument ID: 026 BFB Injection Time: 0701

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.85
75	30.0 - 66.0% of mass 95	37.37
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.620
173	Less than 2.0% of mass 174	1.1 (1.330)1
174	50.0 - 120.0% of mass 95	82.57
175	4.0 - 9.0% of mass 174	6.3 (7.620)1
176	93.0 - 101.0% of mass 174	81.0 (98.10)1
177	5.0 - 9.0% of mass 176	6.2 (7.640)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	200VZ1113	200VZ1113	11/13/93	0725
02	VSTD100	100VZ1113	100VZ1113	11/13/93	0757
03	VSTD050	50VZ1113	50VZ1113	11/13/93	0830
04	VSTD020	20VZ1113	20VZ1113	11/13/93	0901
05	VSTD010	10VZ1113	10VZ1113	11/13/93	0933

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1113Z1 BFB Injection Date: 11/13/93

Instrument ID: 026 BFB Injection Time: 1034

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.07
75	30.0 - 66.0% of mass 95	44.28
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.950
173	Less than 2.0% of mass 174	0.2 (0.220)1
174	50.0 - 120.0% of mass 95	83.63
175	4.0 - 9.0% of mass 174	6.3 (7.590)1
176	93.0 - 101.0% of mass 174	82.3 (98.37)1
177	5.0 - 9.0% of mass 176	6.1 (7.400)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50VZ1113Z	50VZ1113Z	11/13/93	1041
02	VBLKNZ	VMB1113Z	VMB1113Z	11/13/93	1115
03	VBLKMZ	VWB1113Z	VWB1113Z	11/13/93	1147
06	EXQ14	EXQ14V	EXQ14V	11/13/93	1738
04	EXQ12	EXQ12V	EXQ12V	11/13/93	1810
05	EXQ12MS	EXQ12VM	EXQ12VM	11/13/93	1841
06	EXQ12MSD	EXQ12VD	EXQ12VD	11/13/93	1913
07	EXQ15	EXQ15V	EXQ15V	11/13/93	1944
08	EXQ03DL	EXQ03VR	EXQ03VR	11/13/93	2047

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1124Z BFB Injection Date: 11/24/93

Instrument ID: 026 BFB Injection Time: 0847

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.90
75	30.0 - 66.0% of mass 95	49.61
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.570
173	Less than 2.0% of mass 174	0.5 (0.510)1
174	50.0 - 120.0% of mass 95	92.33
175	4.0 - 9.0% of mass 174	7.2 (7.850)1
176	93.0 - 101.0% of mass 174	88.2 (95.53)1
177	5.0 - 9.0% of mass 176	6.4 (7.270)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	200VZ1124	200VZ1124	11/24/93	0928
02	VSTD100	100VZ1124	100VZ1124	11/24/93	1000
03	VSTD050	50VZ1124	50VZ1124	11/24/93	1041
04	VSTD020	20VZ1124	20VZ1124	11/24/93	1108
05	VSTD010	10VZ1124	10VZ1124	11/24/93	1140

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID: BFB1128Z BFB Injection Date: 11/28/93

Instrument ID: 026 BFB Injection Time: 1101

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.94
75	30.0 - 66.0% of mass 95	53.28
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.760
173	Less than 2.0% of mass 174	0.2 (0.180)1
174	50.0 - 120.0% of mass 95	103.2
175	4.0 - 9.0% of mass 174	7.4 (7.160)1
176	93.0 - 101.0% of mass 174	101.6 (98.49)1
177	5.0 - 9.0% of mass 176	7.2 (7.100)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50VZ1128	50VZ1128	11/28/93	1128
02	VBLK2Z	VMB1128Z	VMB1128Z	11/28/93	1233
03	EXQ03MS	EXQ03VM	EXQ03VM	11/28/93	1305
04	EXQ03MSD	EXQ03VD	EXQ03VD	11/28/93	1337

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50VZ1111Z Date Analyzed: 11/11/93

Instrument ID: 026 Time Analyzed: 1333

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	20247	6.70	104512	8.45	98557	14.45
	UPPER LIMIT	40494	7.20	209024	8.95	197114	14.95
	LOWER LIMIT	10124	6.20	52256	7.95	49278	13.95
	EPA SAMPLE NO.						
01	EXQ02	25688	6.68	115370	8.44	96249	14.44
02	EXQ03	25446	6.70	111754	8.44	83960	14.45
03	EXQ05	22589	6.70	90161	8.45	60608	14.45
04	EXQ06	17729	6.67	73727	8.42	53692	14.42
05	EXQ07	21179	6.68	97810	8.44	81549	14.45
06	EXQ08	18260	6.67	79476	8.40	68875	14.40
07	EXQ09	21414	6.68	98412	8.44	87337	14.44
08	EXQ10	19088	6.67	79160	8.40	60916	14.40
09	EXQ11	22639	6.67	104343	8.42	91988	14.42
10	EXQ02MS	28612	6.67	125604	8.42	101156	14.42
11	EXQ02MSD	25930	6.67	109240	8.42	81006	14.42
12	VBLKKZ	29050	6.70	142357	8.44	139817	14.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50VZ1112 Date Analyzed: 11/12/93

Instrument ID: 026 Time Analyzed: 0917

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	36487	6.70	184787	8.44	175210	14.44
	UPPER LIMIT	72974	7.20	369574	8.94	350420	14.94
	LOWER LIMIT	18244	6.20	92394	7.93	87605	13.94
	EPA SAMPLE NO.						
01	EXQ04	27227	6.68	125480	8.42	112122	14.44
02	VBLKLZ	37386	6.68	179488	8.42	169631	14.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50VZ1113Z Date Analyzed: 11/13/93

Instrument ID: 026 Time Analyzed: 1041

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	23789	6.70	116946	8.45	107587	14.45
	UPPER LIMIT	47578	7.20	233892	8.95	215174	14.95
	LOWER LIMIT	11894	6.20	58473	7.95	53794	13.95
	EPA SAMPLE NO.						
01	EXQ03DL	21621	6.70	100397	8.44	98302	14.47
02	EXQ12	22071	6.70	104246	8.44	94058	14.45
03	EXQ14	20607	6.70	99744	8.44	91450	14.45
04	EXQ15	22387	6.72	108075	8.45	98243	14.49
05	EXQ12MS	20823	6.70	101995	8.45	93177	14.47
06	EXQ12MSD	21618	6.70	107296	8.45	95899	14.47
07	VBLKNZ	25354	6.72	126592	8.45	107675	14.47
08	VBLKMZ	25634	6.70	125296	8.45	109997	14.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50VZ1128 Date Analyzed: 11/28/93

Instrument ID: 026 Time Analyzed: 1128

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	23959	6.63	118220	8.37	126656	14.37
	UPPER LIMIT	47918	7.13	236440	8.87	253312	14.87
	LOWER LIMIT	11980	6.13	59110	7.87	63328	13.87
	EPA SAMPLE NO.						
01	EXQ03MS	22697	6.68	109111	8.42	113595	14.44
02	EXQ03MSD	33531	6.65	166514	8.40	159612	14.40
03	VBLK2Z	27000	6.65	131531	8.40	118027	14.40

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

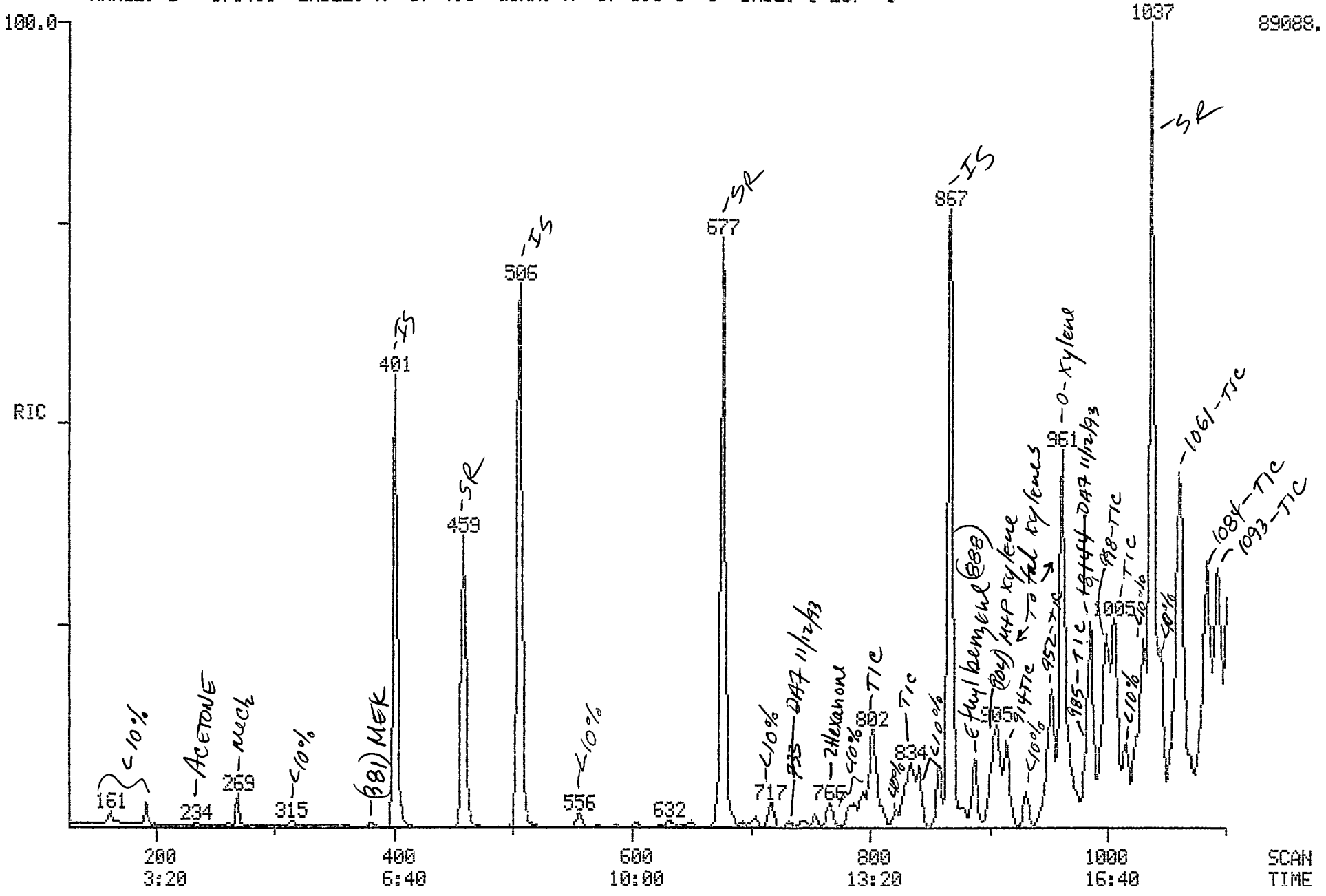
III. VOLATILE SAMPLE DATA

CASE # 21170
SDG # EXQ02

RIC
11/11/93 15:53:00
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ02V #1
CALI: EXQ02V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ02V

Data: EXQ02V.TI
11/11/93 15:53:00
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C035 ACETONE
9	C110 2-BUTANONE
10	C210 2-HEXANONE
11	C240 ETHYLBENZENE
12	C250 TOTAL XYLENES

XI

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	25688.	50.000	NG/ML	15.08
2	114	506	8:26	2	1.000	A BB	115370.	50.000	NG/ML	15.08
3	117	866	14:26	3	1.000	A BB	96249.	50.000	NG/ML	15.08
4	65	459	7:39	1	1.145	A BB	56841.	46.481	NG/ML	14.02
5	98	677	11:17	3	0.782	A BB	102346.	51.668	NG/ML	15.58
6	95	1037	17:17	3	1.197	A BB	68904.	41.042	NG/UL	12.38
7	84	269	4:29	1	0.671	A BB	2250.	2.784	NG/ML	0.84
8	43	235	3:55	1	0.586	A BB	697.	3.091	NG/ML	0.93
9	43	381	6:21	1	0.950	A BB	1614.	3.747	NG/ML	1.13
10	43	766	12:46	3	0.885	A BB	4153.	6.922	NG/ML	2.09
11	106	888	14:48	3	1.025	A BB	2826.	2.719	NG/ML	0.82
12	106	961	16:01	3	1.110	M XX	32978.	23.161	NG/ML	6.98

DAT. 11/12/93

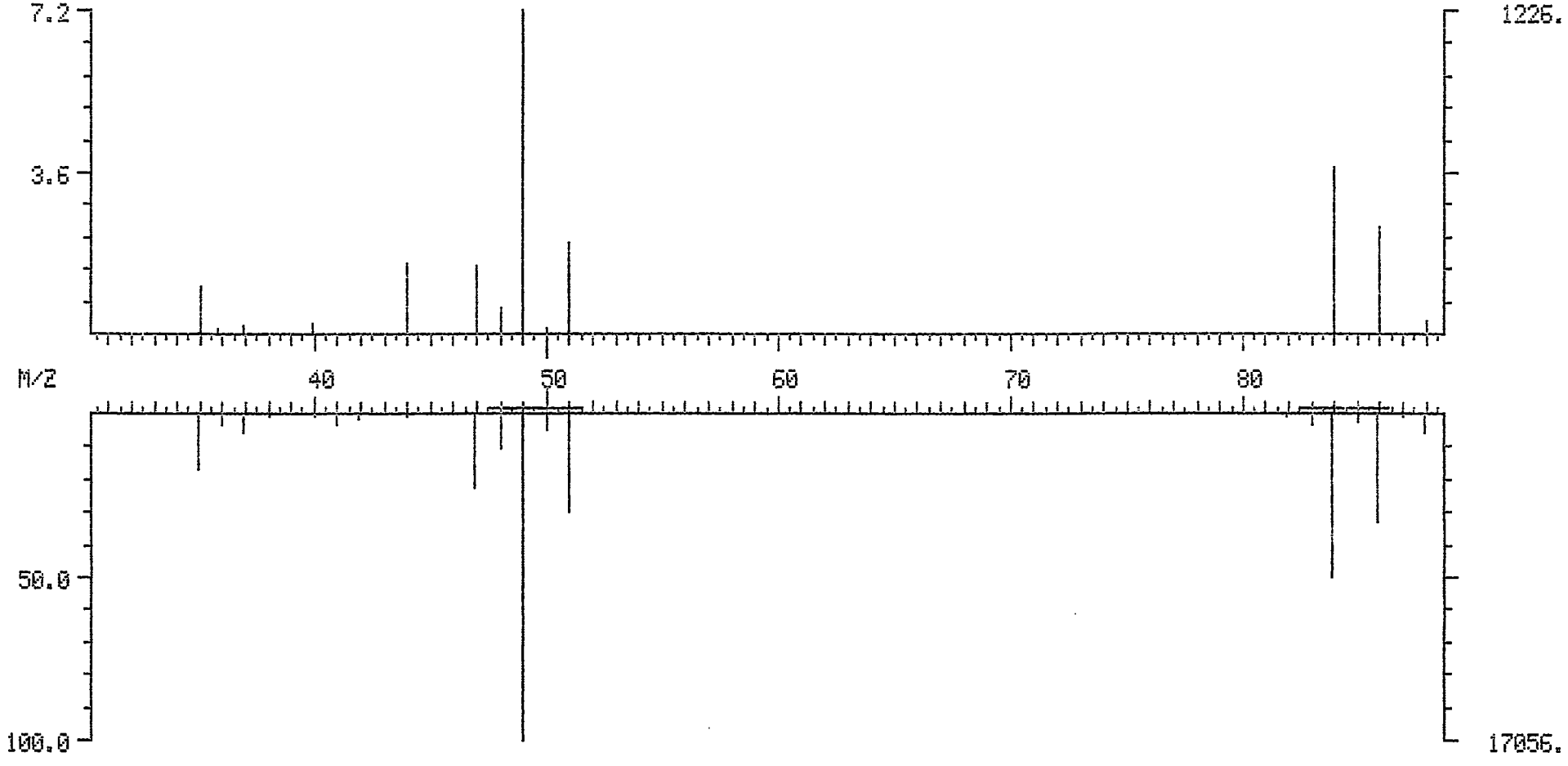
Scan	Ht
802	9,552
834	6,784
914	7,568
952	9,168
985	18,144
998	7,696
1005	17,888
1061	33,728
1084	19,360
1093	12,192

I.S. Ht.
67,584

DUAL MASS SPECTRUM
11/11/93 15:53:00 + 4:29
SECOND SPECTRUM
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ02V #269
CALI: EXQ02V #3
DATA: 50VZ1111Z #270

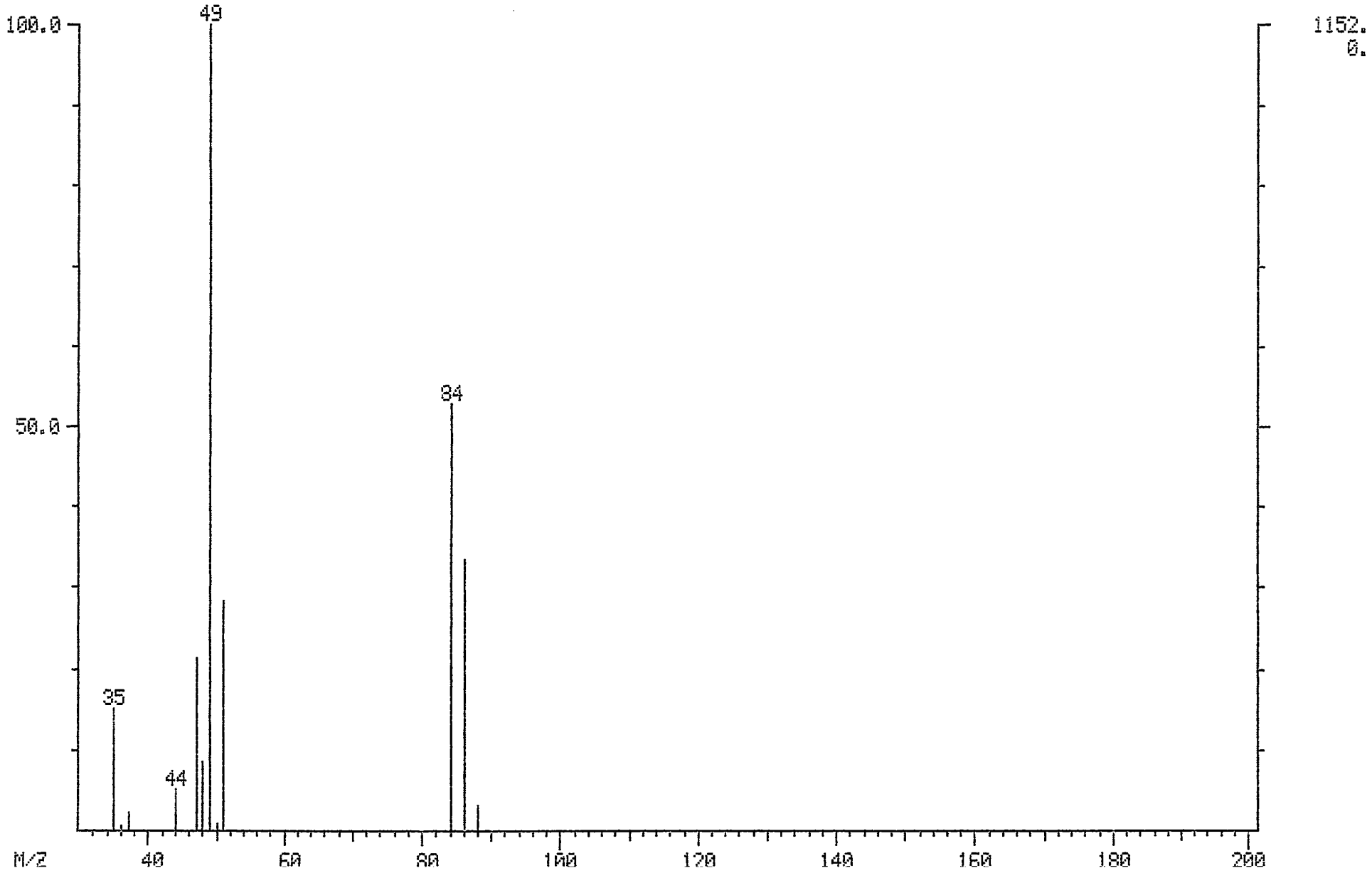
BASE M/Z: 49/ 49
RIC: 3584./ 50560.



MASS SPECTRUM
11/11/93 15:53:00 + 4:29
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ02V #269
CALI: EXQ02V #3

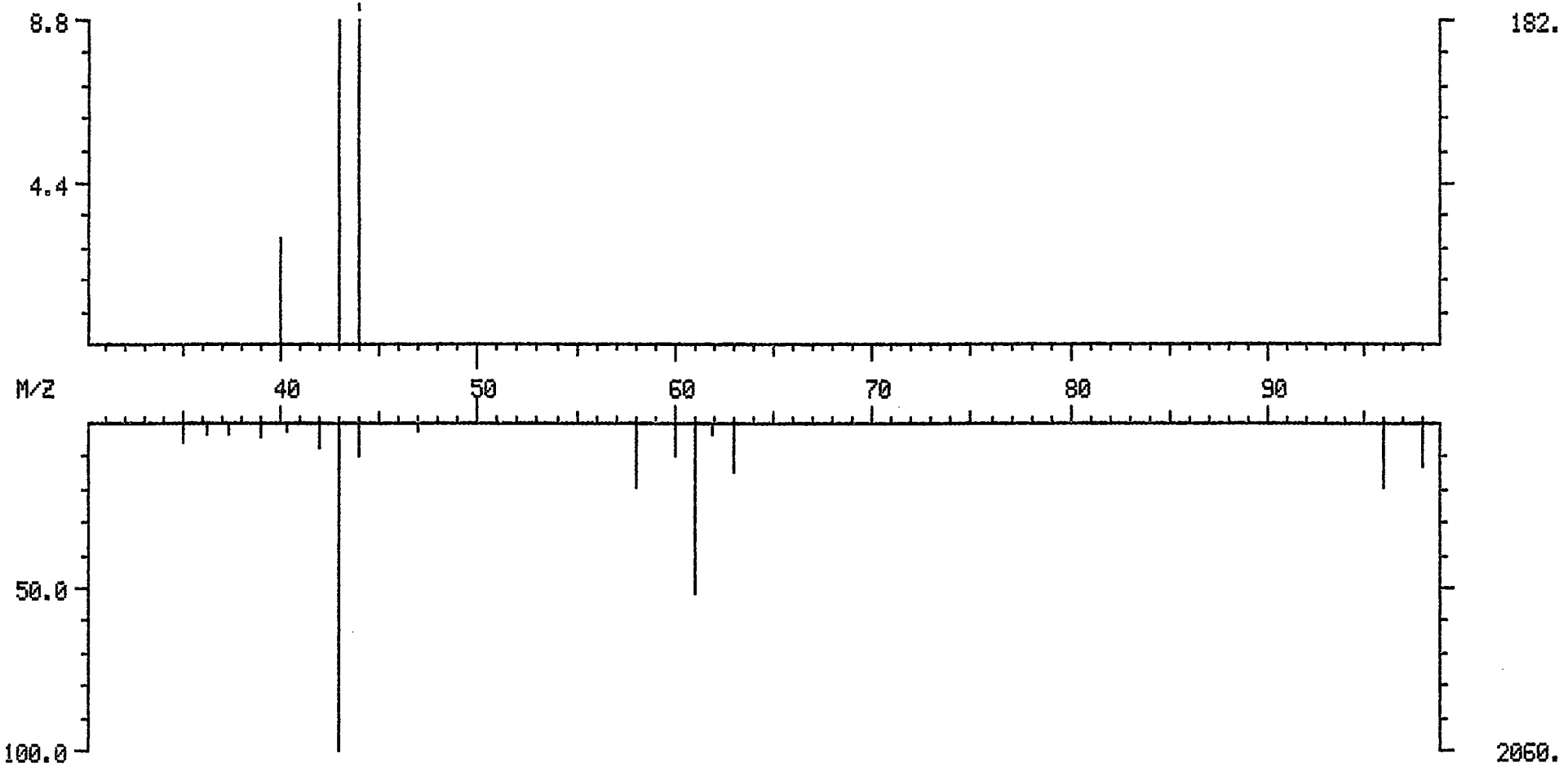
BASE M/Z: 49
RIC: 3132.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 3:55
SECOND SPECTRUM
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: EX002V #235
CALI: EX002V #3
DATA: 50VZ1111Z #236

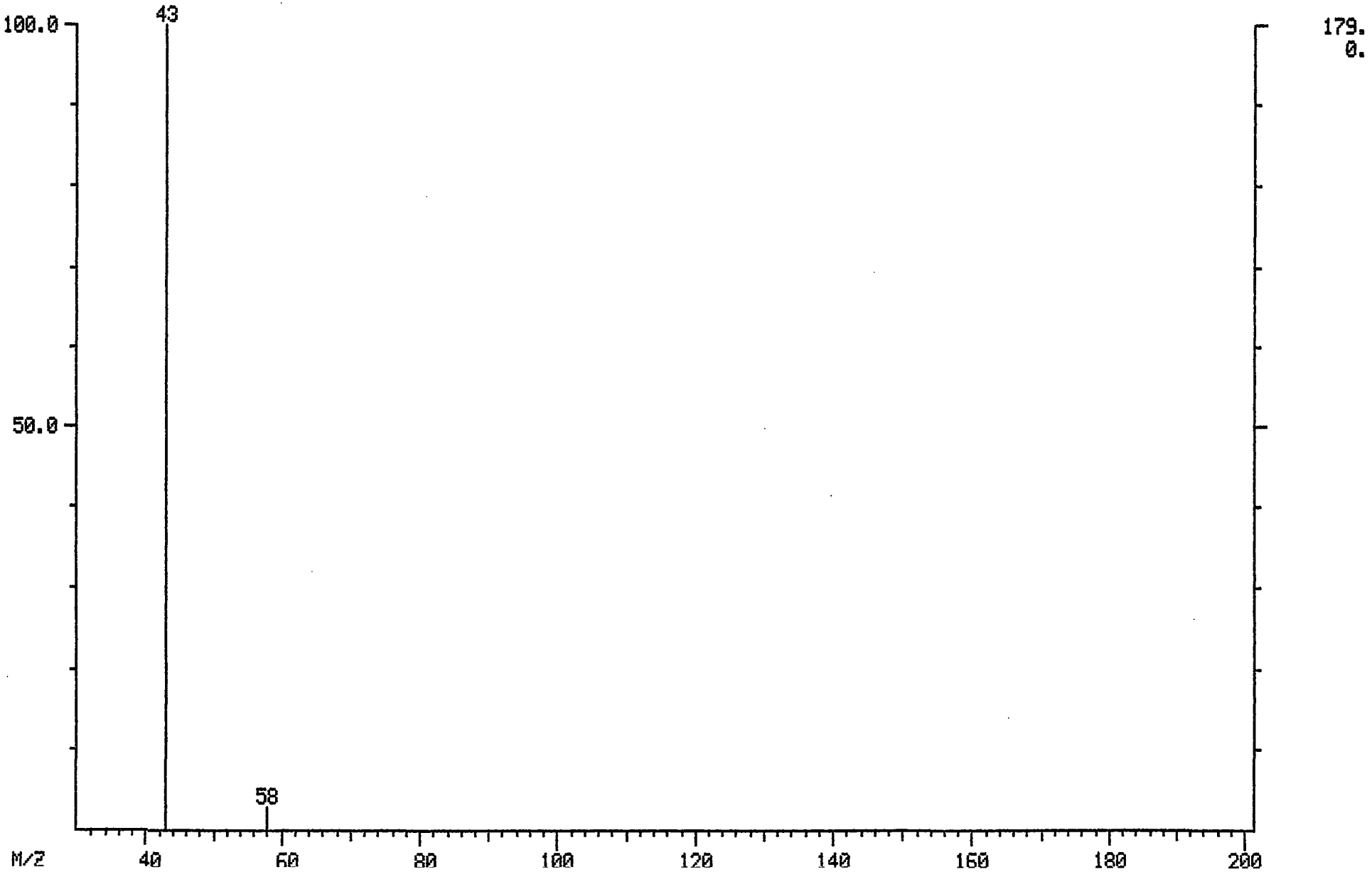
BASE M/Z: 44/ 43
RIC: 475./ 5544.



MASS SPECTRUM
11/11/93 15:53:00 + 3:55
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: EXQ02V #235
CALI: EXQ02V #3

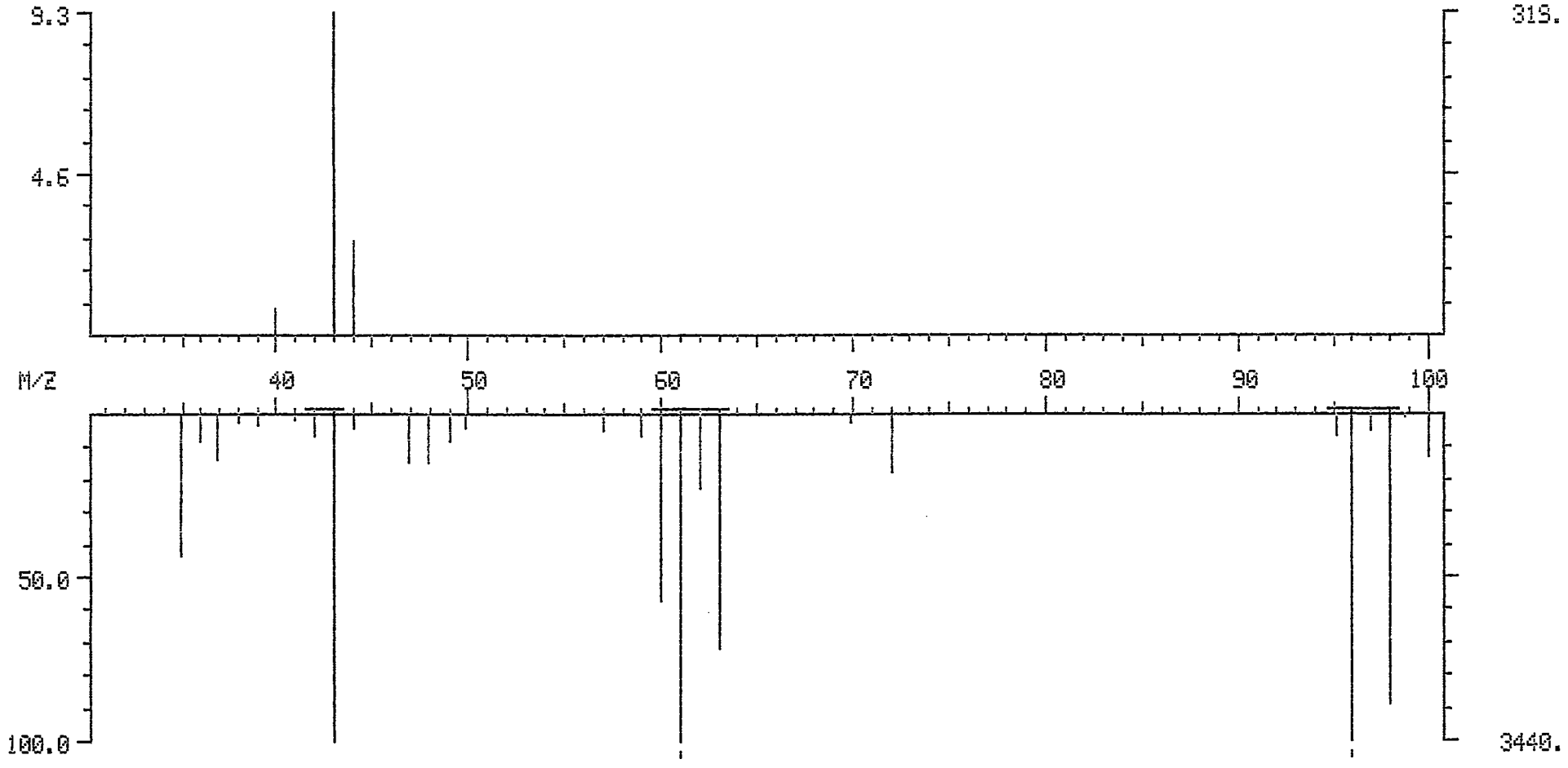
BASE M/Z: 43
RIC: 184.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 6:21
SECOND SPECTRUM
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
NAME: C110 2-BUTANONE

DATA: EXQ02V #381
CALI: EXQ02V #3
DATA: 50VZ1111Z #382

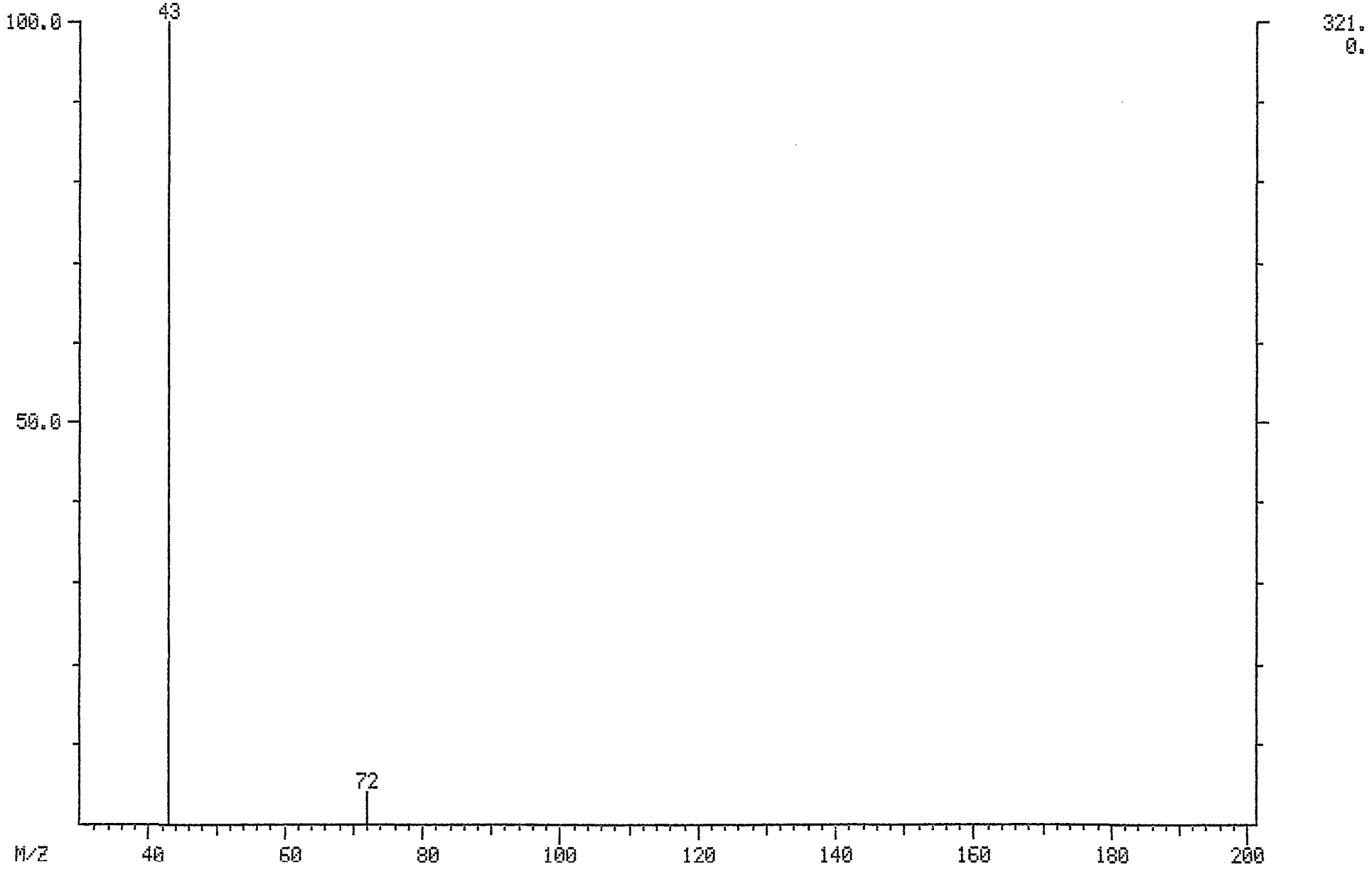
BASE M/Z: 43/ 61
RIC: 437./ 30528.



MASS SPECTRUM
11/11/93 15:53:00 + 6:21
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: EX002V #381
CALI: EX002V #3

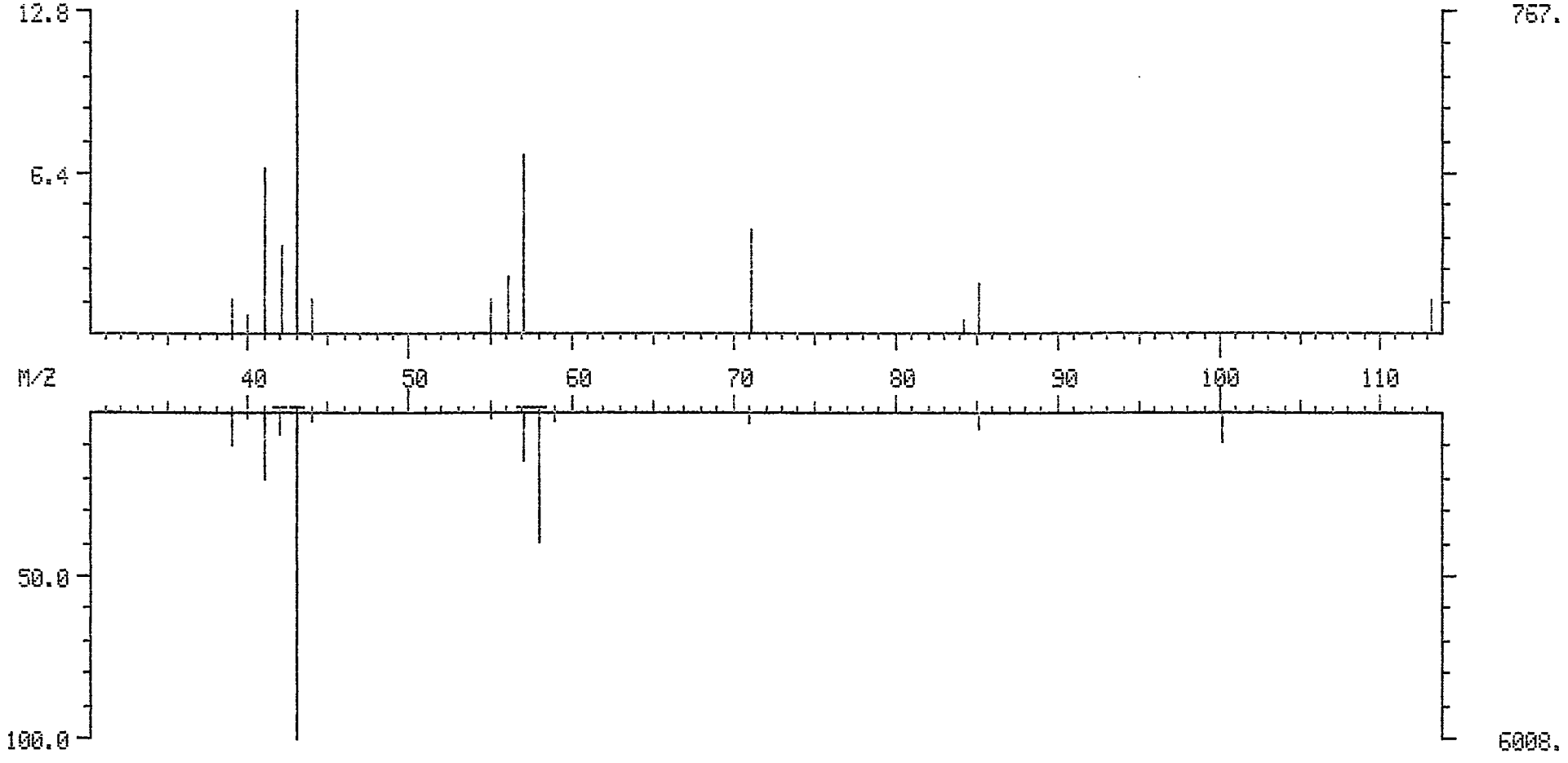
BASE M/Z: 43
RIC: 334.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 12:46
SECOND SPECTRUM
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 103 DEG. C
NAME: C210 2-HEXANONE

DATA: EX002V #766
CALI: EX002V #3
DATA: 50VZ1111Z #773

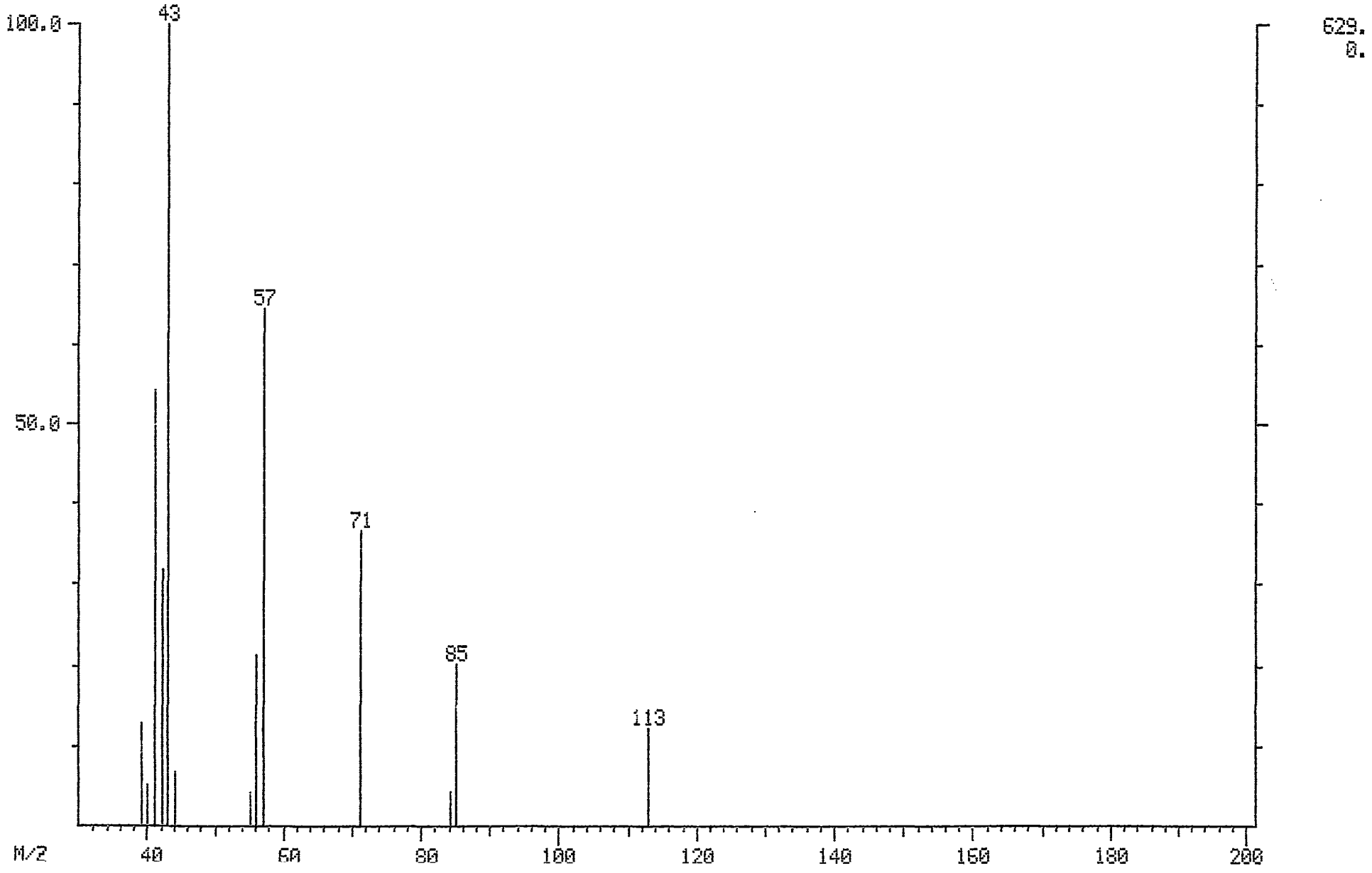
BASE M/Z: 43/ 43
RIC: 2700./ 13008.



MASS SPECTRUM
11/11/93 15:53:00 + 12:46
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 103 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C210 2-HEXANONE

DATA: EXQ02V #766
CALI: EXQ02V #3

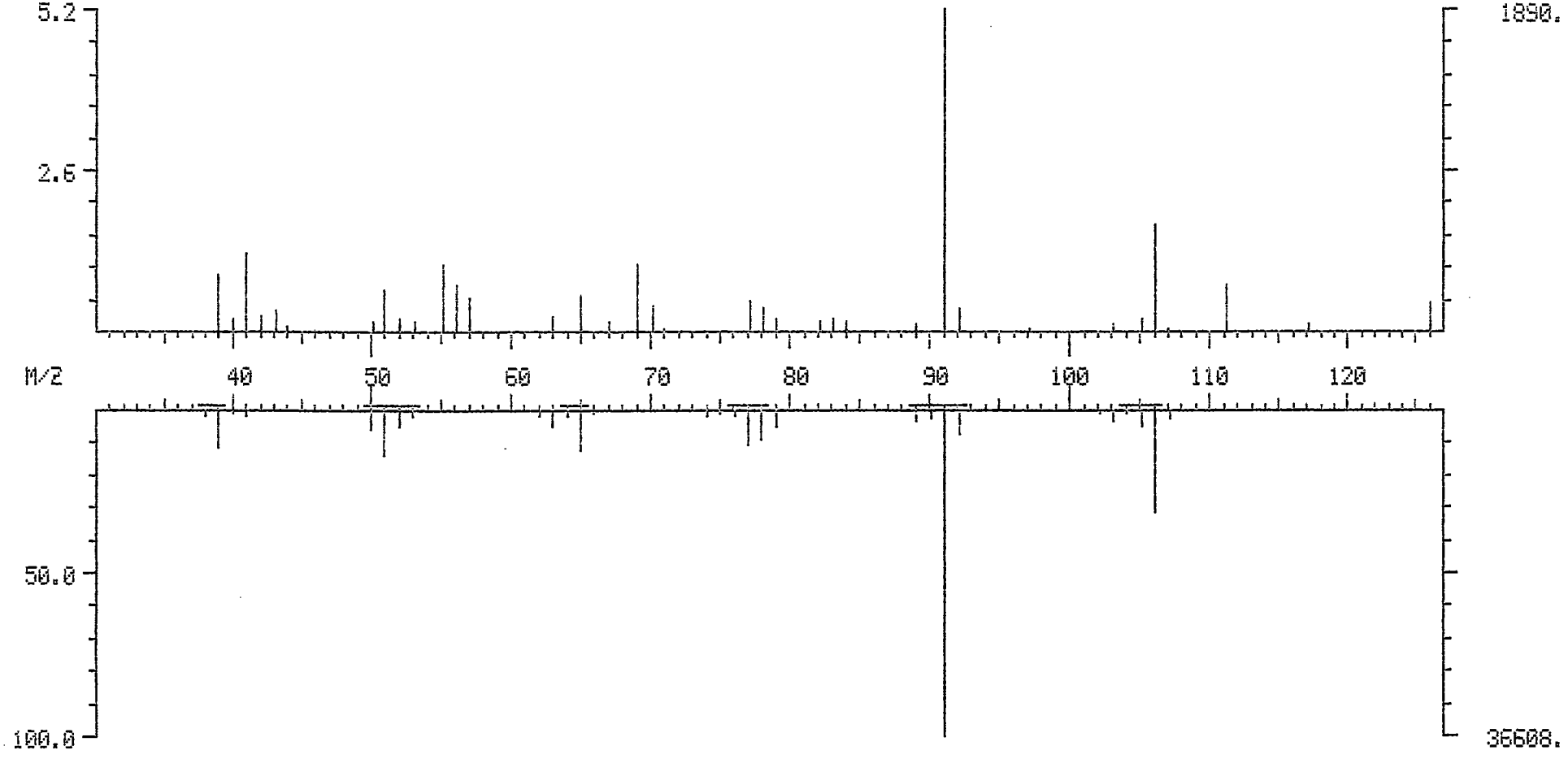
BASE M/Z: 43
RIC: 2360.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 14:48
SECOND SPECTRUM
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 115 DEG. C
NAME: C240 ETHYLBENZENE

DATA: EX002V #888
CALI: EX002V #3
DATA: 50VZ1111Z #888

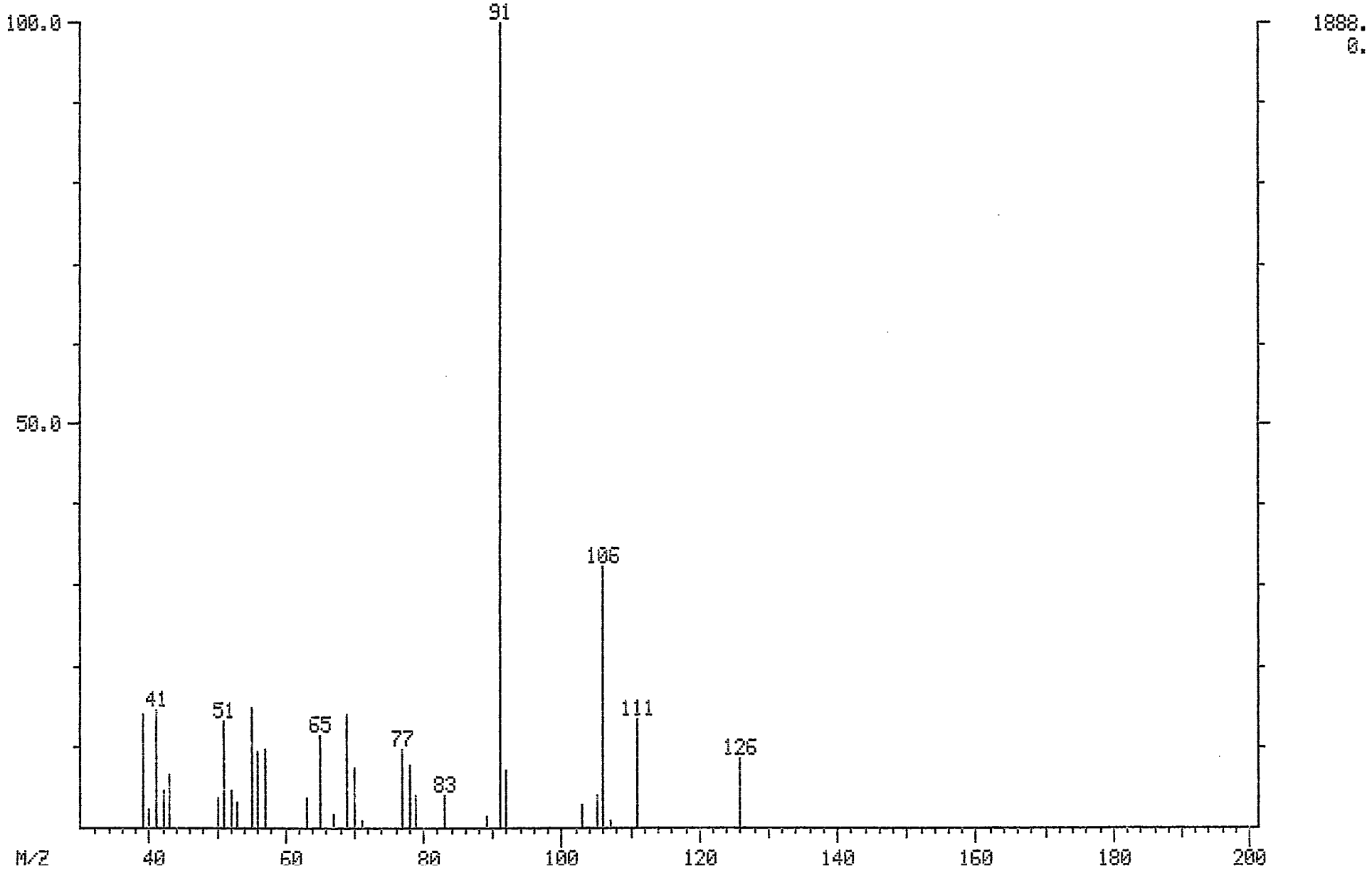
BASE M/Z: 91/ 91
RIC: 7328./ 90880.



MASS SPECTRUM
11/11/93 15:53:00 ÷ 14:48
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C240 ETHYLBENZENE

DATA: EXQ02V #888
CALI: EXQ02V #3

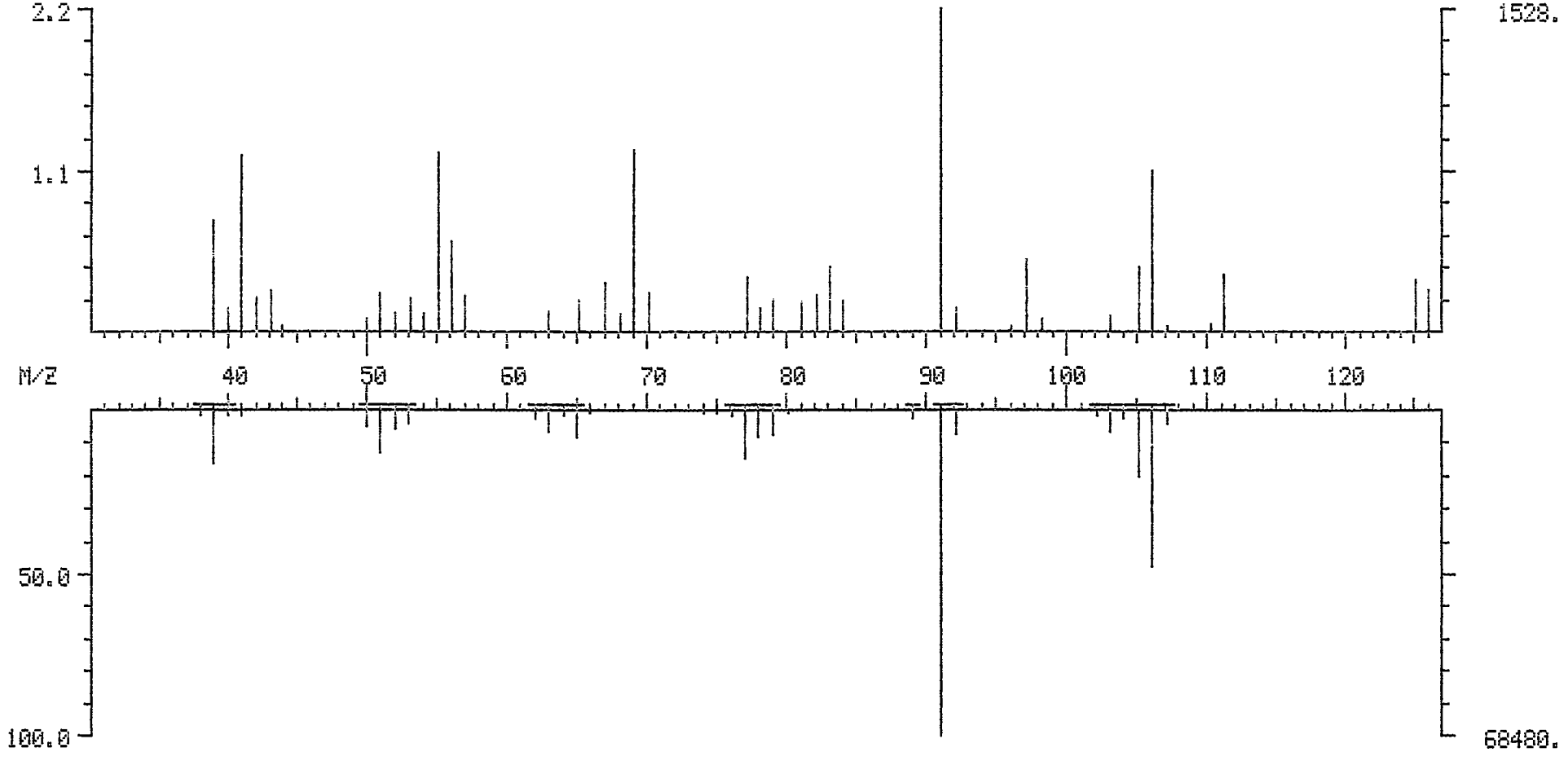
BASE M/Z: 91
RIC: 6344.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 15:04
SECOND SPECTRUM
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EX002V #904
CALI: EX002V #3
DATA: 50VZ1111Z #905

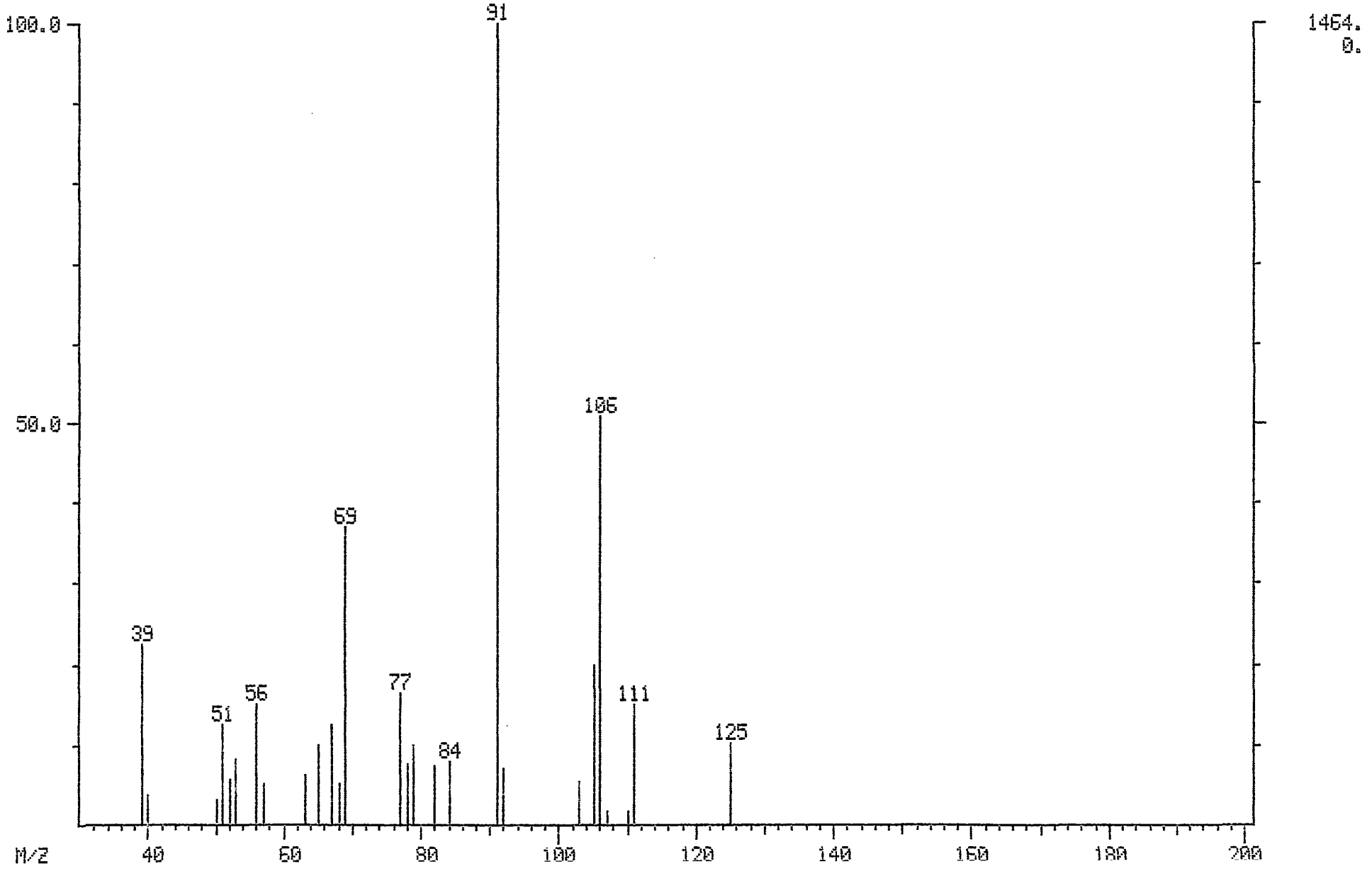
BASE M/Z: 91/ 91
RIC: 10784./ 202752.



MASS SPECTRUM
11/11/93 15:53:00 + 15:04
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EXQ02V #904
CALI: EXQ02V #3

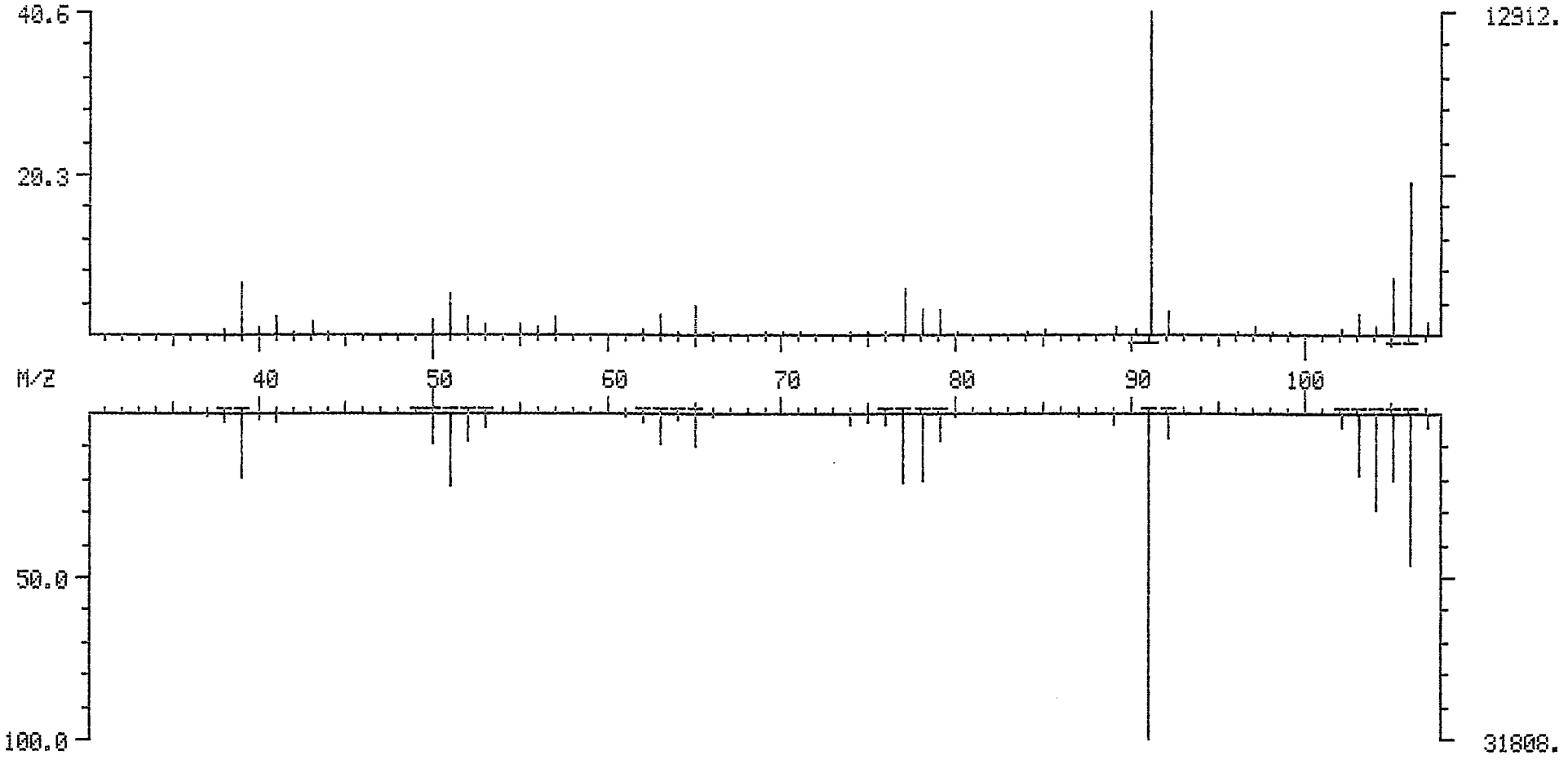
BASE M/Z: 91
RIC: 5984.



DUAL MASS SPECTRUM
11/11/93 15:53:00 + 16:01
SECOND SPECTRUM
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 122 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EXQ02V #961
CALI: EXQ02V #3
DATA: 50VZ1111Z #961

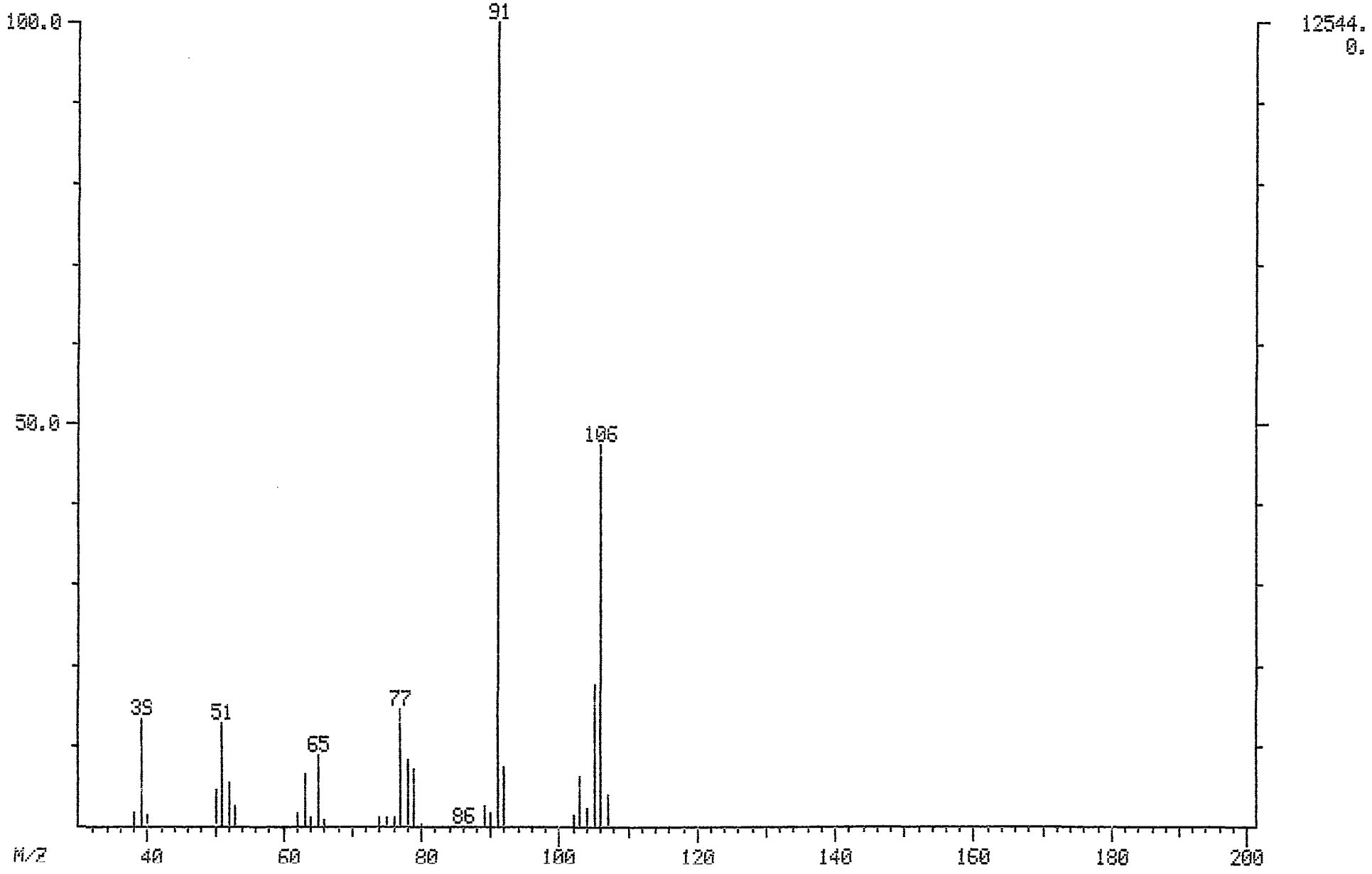
BASE M/Z: 91/ 91
RIC: 41600./ 123136.



MASS SPECTRUM
11/11/93 15:53:00 + 16:01
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 122 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EXQ02V #961
CALI: EXQ02V #3

BASE M/Z: 91
RIC: 35776.



Library Search Data: EXQ02V # 802 Base m/z: 111
11/11/93 15:53:00 + 13:22 Cali: EXQ02V # 3 RIC: 7928.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
106 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4059	CYCLOHEXANE, 1,1,2-TRIMETHYL-
2	12285	CYCLOOCTANE, BUTYL-
3	1195	CYCLOPENTANE, 1,1-DIMETHYL-
4	4016	CYCLOHEXANE, 1,3,5-TRIMETHYL-
5	2405	1-HEXENE, 3,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	943	952	984
2	C12.H24	168	111	827	898	912
3	C7.H14	98	56	461	888	475
4	C9.H18	126	111	855	886	918
5	C8.H16	112	41	452	878	478

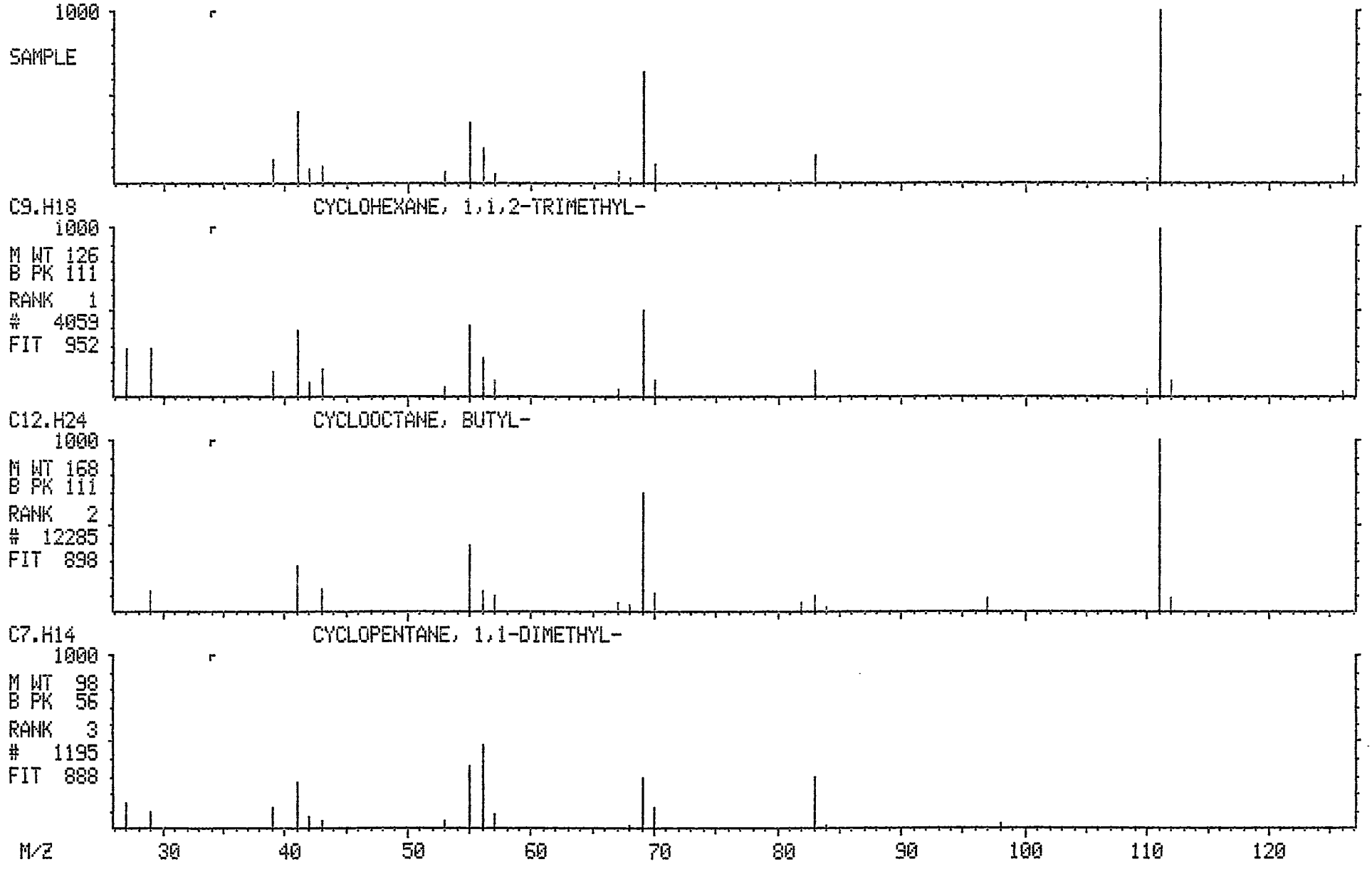
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	7094-26-0
2	___	___	___	___	16538-93-5
3	___	___	___	___	1638-26-2
4	___	___	___	___	1839-63-0
5	___	___	___	___	3404-77-1

Mass	Inten	1	2	3	4	5
27		280		140		
28					117	
29		274	125	91		
39	135	142		121	95	
41	407	388	266	261	263	590
42	74	76		61	95	46
43	96	160	137	38	104	81
51						41
53	62	52		39		131
54						20
55	347	406	392	364	457	350
56	200	222	125	481	159	82
57	55	86	90	83	48	13
67	62	36	50		34	87
68	28		34	20		47
69	642	511	694	291	719	515
70	110	86	111	117	82	136
81	4					
82			55			
83	159	150	93	296	73	25
84			31	18	32	17
97			77		43	21
98				23		
110	31	46				
111	999	982	999		758	
112		94	78		73	
126	38	29			183	
127					16	

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 13:22
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V # 802
CALI: EXQ02V # 3

BASE M/Z: 111
RIC: 7928.



Library Search Data: EXQ02V # 834 Base m/z: 111
11/11/93 15:53:00 + 13:54 Cali: EXQ02V # 3 RIC: 3408.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
249 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1204	2-PENTENE, 3-ETHYL-
2	1189	2-HEXENE, 3-METHYL-, (Z)-
3	4048	CYCLOHEXANE, 1,3,5-TRIMETHYL-, (1.ALPHA.,3.ALPHA.,5.ALPHA.)-
4	4046	CYCLOHEXANE, 1,3,5-TRIMETHYL-, (1.ALPHA.,3.ALPHA.,5.BETA.)-
5	1205	1-PENTENE, 3-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H14	98	69	498	941	512
2	C7.H14	98	69	486	937	498
3	C9.H18	126	111	888	936	923
4	C9.H18	126	111	886	933	932
5	C7.H14	98	69	479	927	496

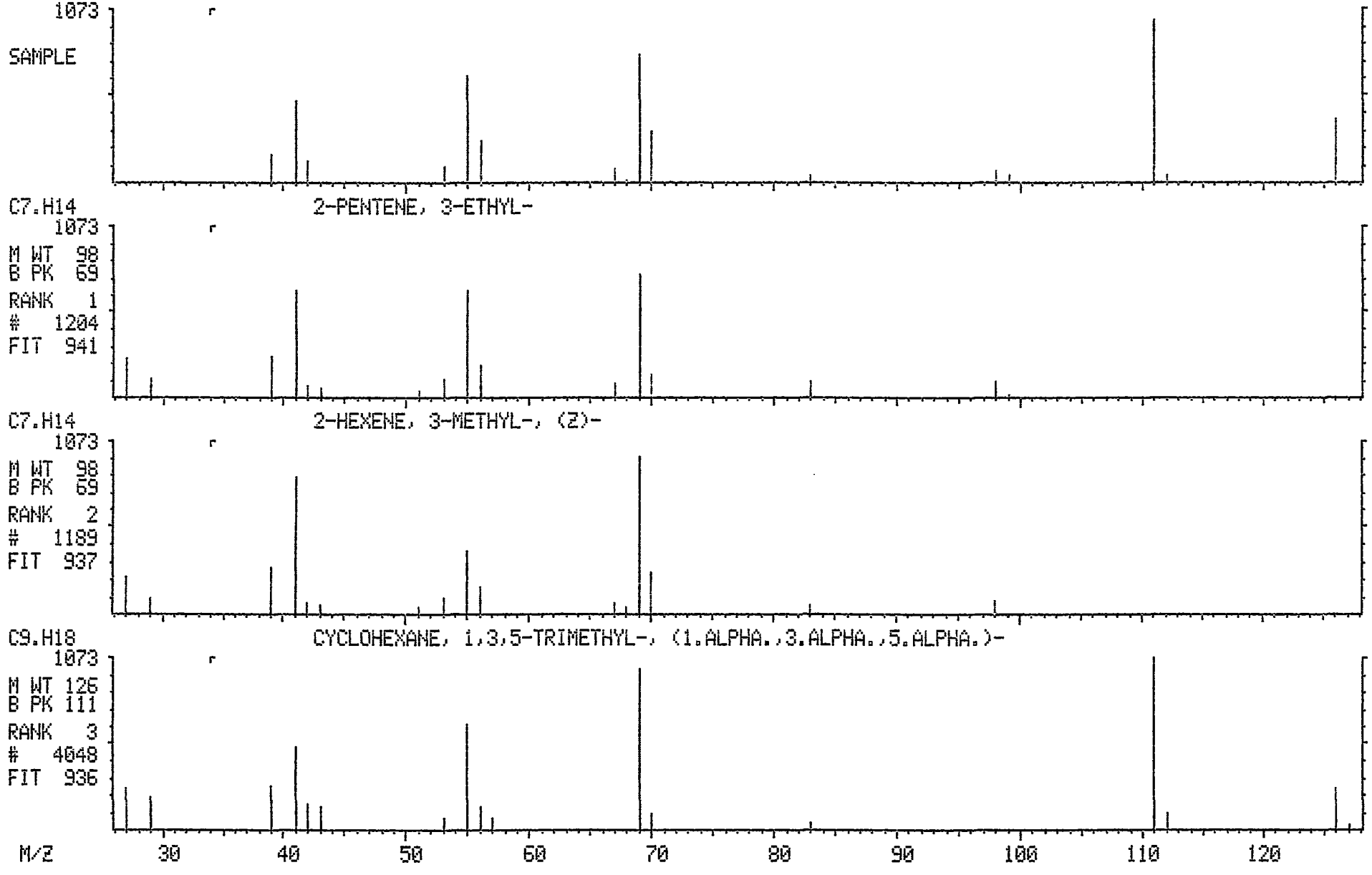
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	816-79-5
2	___	___	___	___	10574-36-4
3	___	___	___	___	1795-27-3
4	___	___	___	___	1795-26-2
5	___	___	___	___	4038-04-4

Mass	Inten	1	2	3	4	5
27		246	228	256	320	331
29		117	105	195	246	145
39	173	257	287	271	308	280
40						44
41	501	668	836	512	500	882
42	121	70	74	161	195	112
43		64	58	137	122	52
51		47	45			
53	101	107	106	75	82	91
54						43
55	665	671	383	658	619	306
56	258	205	171	142	208	195
57				65		
67	90	85	65			75
68	6		44			
69	785	772	971	996	902	956
70	307	141	256	105	127	260
83	48	104	61	47	82	77
84					57	
98	69	94	85			77
99	44	7				
110					31	
111	999			1073	1020	
112	42			94	85	
126	388			253	323	
127				24	30	

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 13:54
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX002V # 834
CALI: EX002V # 3

BASE M/Z: 111
RIC: 3408.



Library Search Data: EXQ02V # 914 Base m/z: 43
11/11/93 15:53:00 + 15:14 Cali: EXQ02V # 3 RIC: 6272.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
422 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4758	1-PENTANOL, 3,3,4-TRIMETHYL-
2	6438	1-OCTENE, 3-ETHYL-
3	2712	PENTANE, 2,3,3-TRIMETHYL-
4	2719	HEXANE, 3,3-DIMETHYL-
5	12345	1-NONENE, 4,6,8-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H18.O	130	43	583	917	589
2	C10.H20	140	43	510	914	527
3	C8.H18	114	43	735	908	741
4	C8.H18	114	43	697	907	720
5	C12.H24	168	43	704	903	740

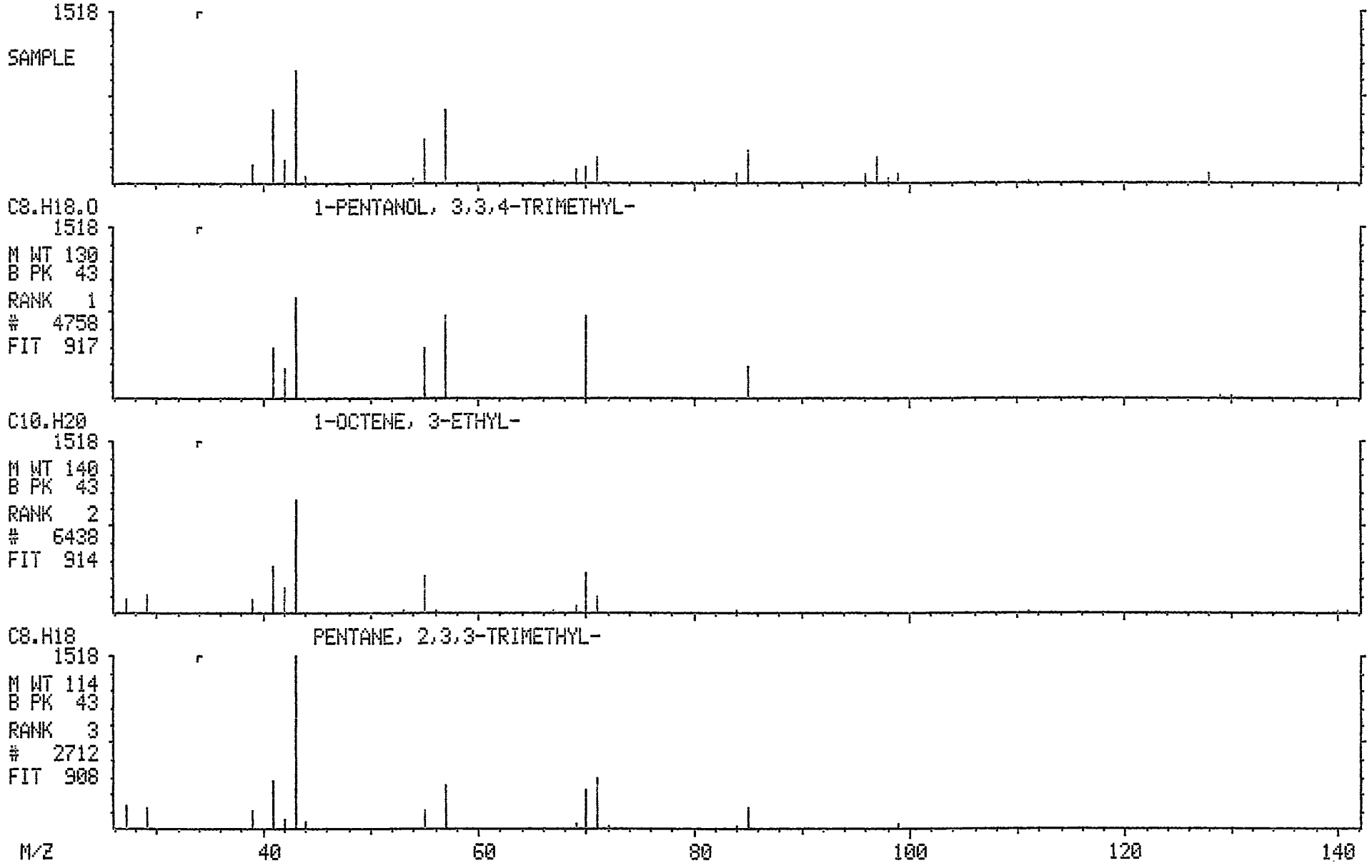
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	65502-58-1
2	___	___	___	___	74630-08-3
3	___	___	___	___	560-21-4
4	___	___	___	___	563-16-6
5	___	___	___	___	54410-98-9

Mass	Inten	1	2	3	4	5
27			128	200	221	185
29			170	177	244	169
39	151		129	160	152	233
41	646	447	400	433	424	708
42	199	256	224	80		137
43	999	893	982	1517	1444	1018
44	63			51		
53			28			
54	40					
55	383	452	332	165	132	210
56			27		59	
57	647	737		380	456	503
67	21		21			
69	115		63	33	33	240
70	150	719	338	342	166	62
71	214		144	438	457	462
72				22	24	
81	16					
83						75
84	76		6	26	57	36
85	285	286		185	274	161
86					17	
96	81					
97	223					
98	39					
99	82			47	45	
111	27		27			27
125						14
126						5
127						8
128	75					

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 15:14
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V # 914
CALI: EXQ02V # 3

BASE M/Z: 43
RIC: 6272.



Library Search Data: EXQ02V # 952 Base m/z: 55
11/11/93 15:53:00 + 15:52 Cali: EXQ02V # 3 RIC: 10496.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
78 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4033	CYCLOHEXANE, 1-ETHYL-2-METHYL-, CIS-
2	4050	2-HEXENE, 3,4,4-TRIMETHYL-
3	1400	OXETANE, 2-ETHYL-3-METHYL-
4	4035	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-
5	1348	FURAN, TETRAHYDRO-2,4-DIMETHYL-, TRANS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	55	756	954	768
2	C9.H18	126	55	715	944	732
3	C6.H12.O	100	41	504	932	512
4	C9.H18	126	55	681	932	697
5	C6.H12.O	100	41	490	926	500

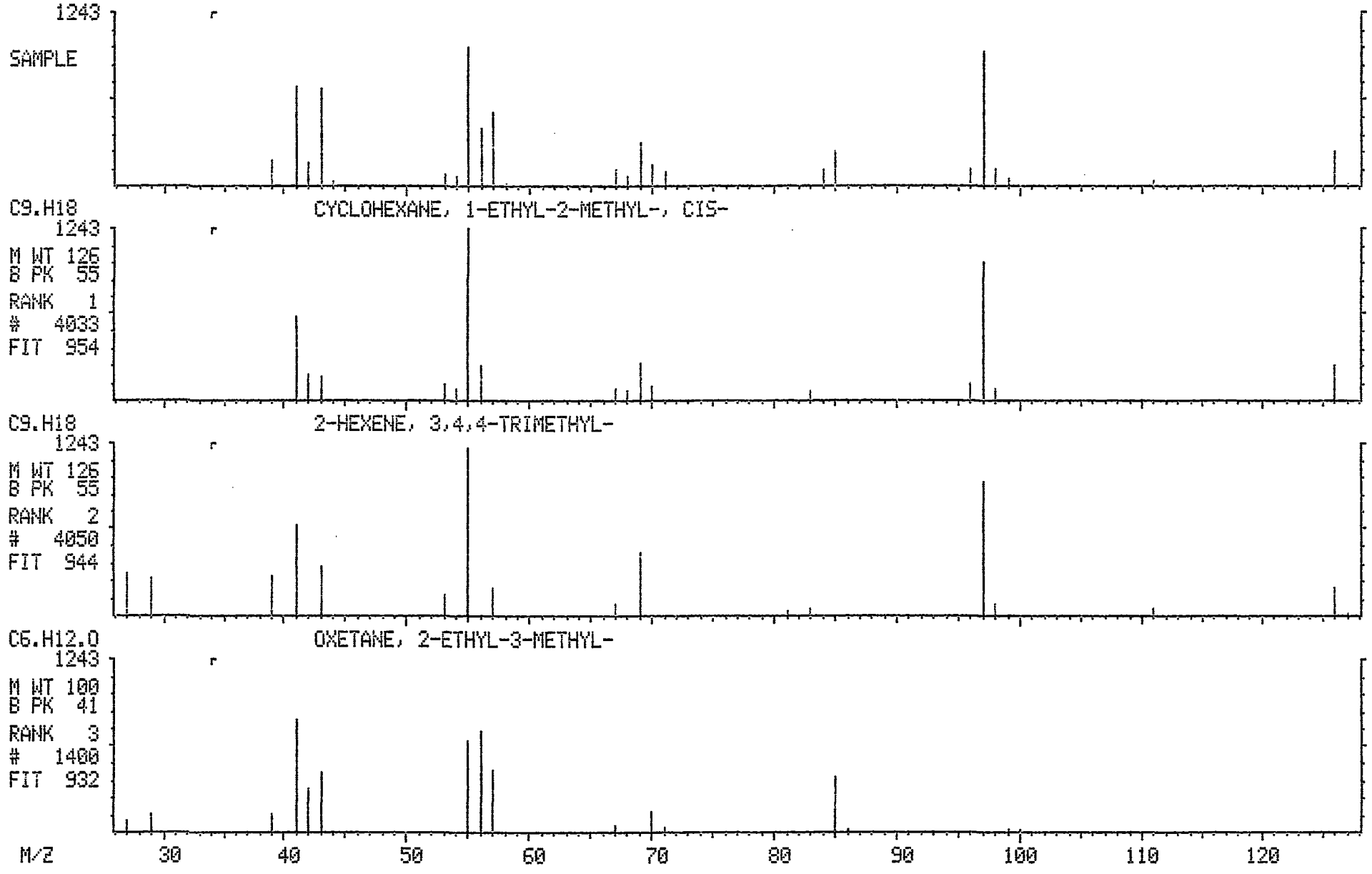
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	4923-77-7
2	___	___	___	___	53941-19-8
3	___	___	___	___	53778-62-4
4	___	___	___	___	4923-78-8
5	___	___	___	___	39168-02-0

Mass	Inten	1	2	3	4	5
27			298	86		78
29			270	125		106
39	183		289	140	309	265
41	707	599	654	810	558	749
42	173	189		321	165	323
43	692	168	339	432	151	420
44	38					79
53	74	112	141		111	
54	60	78				
55	999	1243	1211	658	1237	709
56	412	252		727	214	714
57	534		202	448		290
58	12					
67	121	84	78	49	86	45
68	62	58			64	
69	312	268	448		270	
70	144	100		151	83	161
71	95			38		
81			41		45	
83		61	50		39	
84	114					
85	249			389		356
86				16		14
96	123	116			57	
97	955	987	955		1027	
98	110	82	83		87	
99	50			6		8
100				20		30
111	32		55			
126	244	244	207			
127	23		20			

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 15:52
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX002V # 952
CALI: EX002V # 3

BASE M/Z: 55
RIC: 10496.



Library Search Data: EXQ02V # 985 Base m/z: 57
11/11/93 15:53:00 + 16:25 Cali: EXQ02V # 3 RIC: 16048.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
210 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6843	NONANE, 3-METHYL-
2	3726	PENTALENE, OCTAHYDRO-2-METHYL-
3	3693	1H-INDENE, OCTAHYDRO-, CIS-
4	9732	OCTANE, 2,3,7-TRIMETHYL-
5	6874	OCTANE, 3,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	591	977	599
2	C9.H16	124	81	448	964	453
3	C9.H16	124	67	440	957	440
4	C11.H24	156	57	544	949	551
5	C10.H22	142	57	560	948	574

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	5911-04-6
2	___	___	___	___	3868-64-2
3	___	___	___	___	4551-51-3
4	___	___	___	___	62016-34-6
5	___	___	___	___	15869-94-0

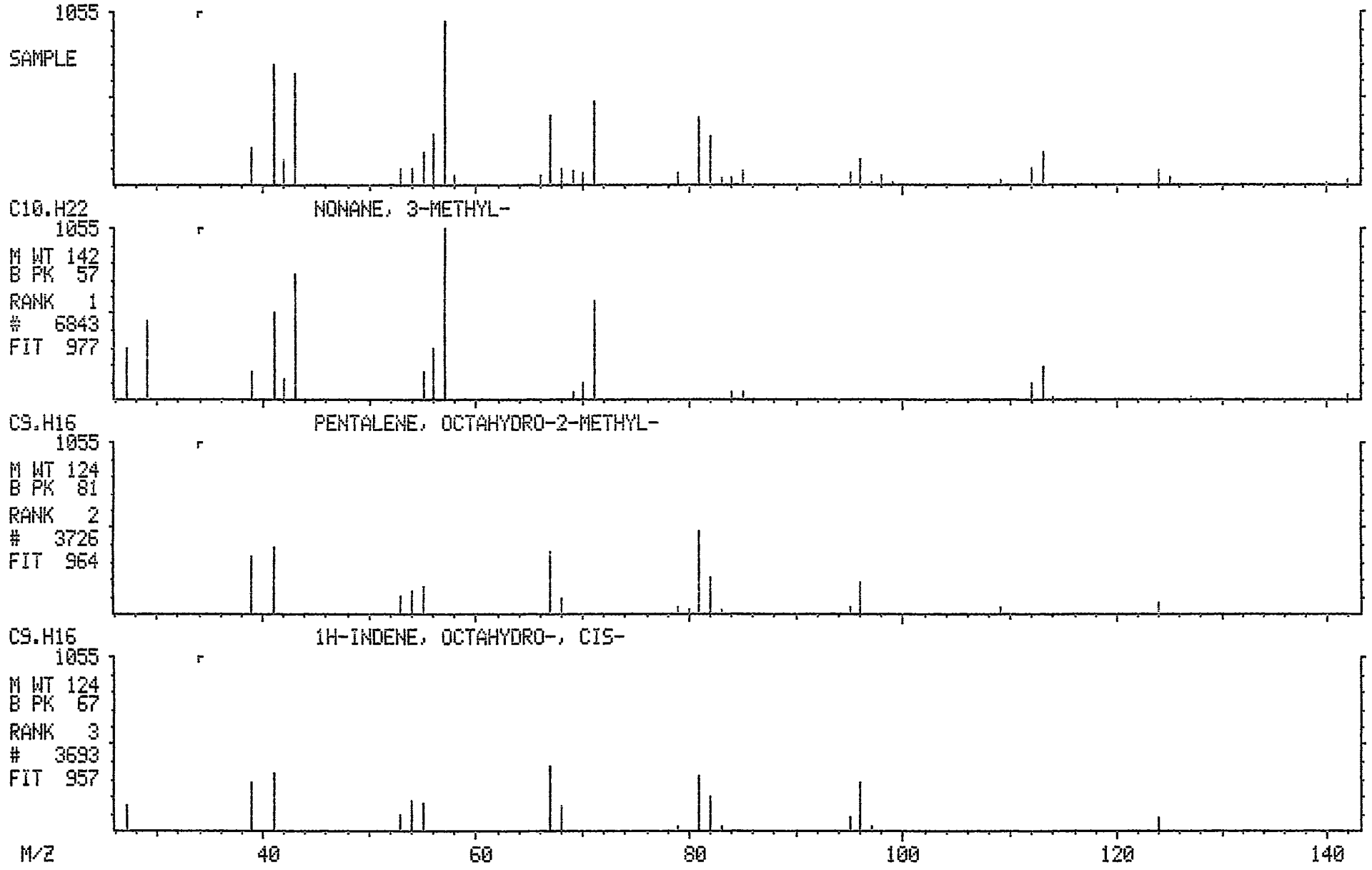
Mass	Inten	1	2	3	4	5
27		314		152	99	115
29		471			125	335
39	227	162	356	292		83
41	729	536	411	353	317	406
42	157	122			93	
43	676	769			978	664
53	102		110	92		
54	94		146	183		
55	198	161	173	171	116	101
56	314	305			182	294
57	999	1054			986	1225
58	51					53
66	58					
67	416		377	400		
68	96		96	159		
69	88	38			69	29
70	64	93			98	54
71	511	607			707	618
72					39	37
79	69		40	30		
80			28			
81	402		512	335		
82	295		229	212		
83	49		26	25		
84	36	35			35	
85	79	44			42	47
95	66		45	80		
96	154		194	289		
97	12			22		
98	53					
99	7					

112	97	92			141	72
113	195	200			143	217
114		17				17
124	77		65	77		
125	43					
127		8				9
140	5					0
142	31	31				31

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 16:25
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V # 985
CALI: EXQ02V # 3

BASE M/Z: 57
RIC: 16048.



Library Search Data: EXQ02V # 998 Base m/z: 55
11/11/93 15:53:00 + 16:38 Cali: EXQ02V # 3 RIC: 9840.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
339 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3710	CYCLOPENTANE, 1-METHYL-2-(2-PROPENYL)-, TRANS-
2	3694	CYCLOHEXANE, 1-PROPENYL-
3	2676	CYCLOHEXANEMETHANOL
4	3702	CYCLOHEXANE, 2-PROPENYL-
5	22948	CYCLOHEXANEMETHYL DICHLOROACETATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H16	124	83	654	964	666
2	C9.H16	124	83	590	934	623
3	C7.H14.O	114	55	604	928	623
4	C9.H16	124	83	597	927	628
5	C9.H14.O2.CL2	224	55	490	915	492

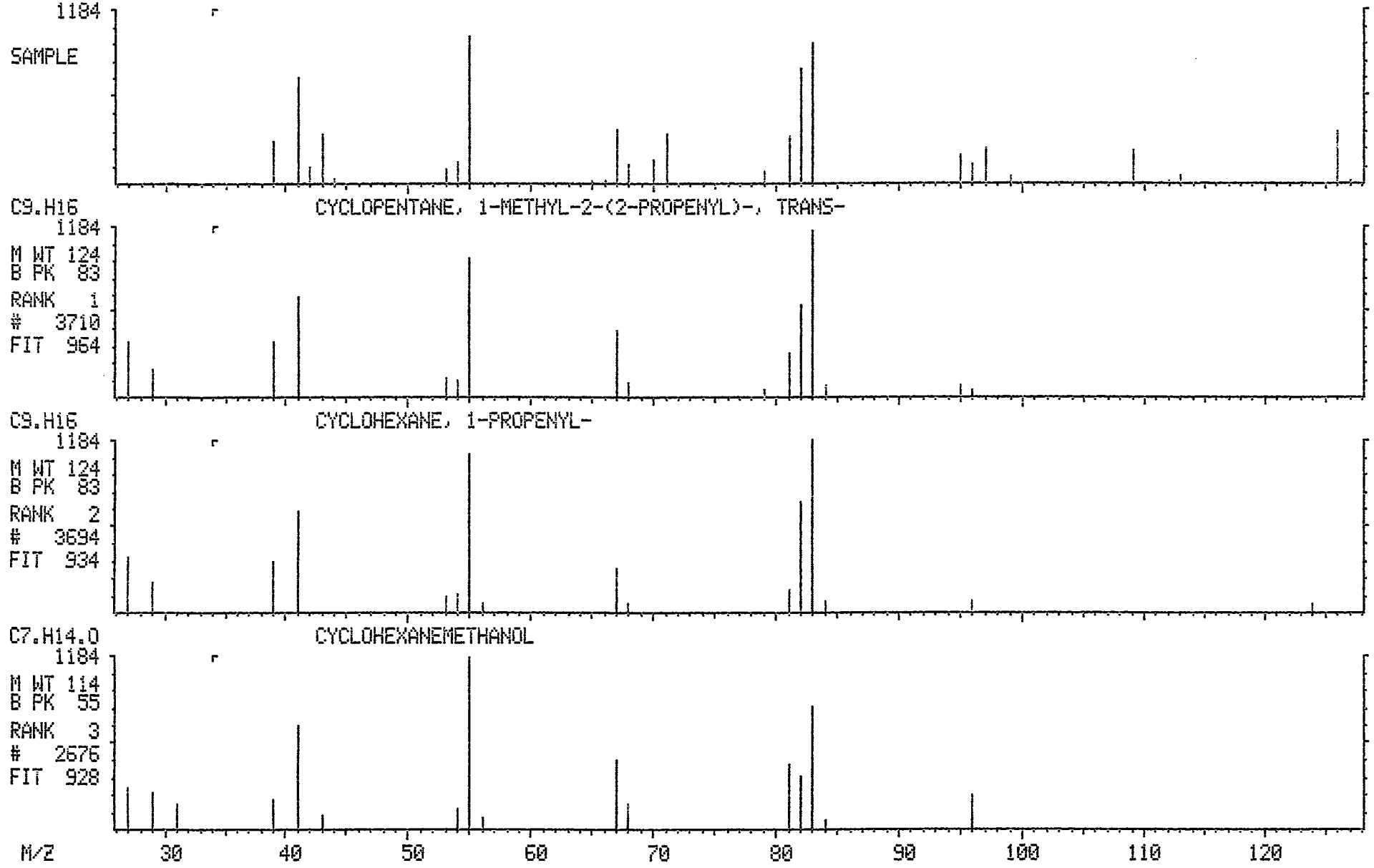
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	50746-53-7
2	___	___	___	___	5364-83-0
3	___	___	___	___	100-49-2
4	___	___	___	___	2114-42-3
5	___	___	___	___	86338-70-7

Mass	Inten	1	2	3	4	5
27		375	371	287	253	
29		193	198	253	134	
31				166		
39	287	378	354	200	315	
41	714	692	692	704	627	404
42	115					
43	334			88		210
44	27					
53	98	133	115		111	
54	148	103	119	138	114	
55	999	963	1086	1163	1191	1109
56			64	80		
65	23					
66	13					
67	361	458	296	479	259	383
68	128	89	67	179	56	208
70	162					
71	333					
79	72	53			42	
81	315	303	161	442	145	503
82	765	636	759	360	727	
83	953	1158	1183	837	1278	314
84		74	76	64	87	
95	185	77				
96	123	54	72	228	79	249
97	243					319
99	41					
109	225					
111						10
112	18					
113	49					

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 16:38
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V # 998
CALI: EXQ02V # 3

BASE M/Z: 55
RIC: 9840.



343
16

126
127

Library Search Data: EXQ02V #1005 Base m/z: 57
11/11/93 15:53:00 + 16:45 Cali: EXQ02V # 3 RIC: 14144.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
229 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6848	HEPTANE, 3-ETHYL-2-METHYL-
2	4458	PENTANE, 2,2,3,4-TETRAMETHYL-
3	4058	1-HEXENE, 3,5,5-TRIMETHYL-
4	15587	UNDECANE, 5,6-DIMETHYL-
5	4454	HEXANE, 3-ETHYL-2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	867	943	897
2	C9.H20	128	57	663	929	669
3	C9.H18	126	57	614	909	631
4	C13.H28	184	57	821	905	849
5	C9.H20	128	43	622	899	632

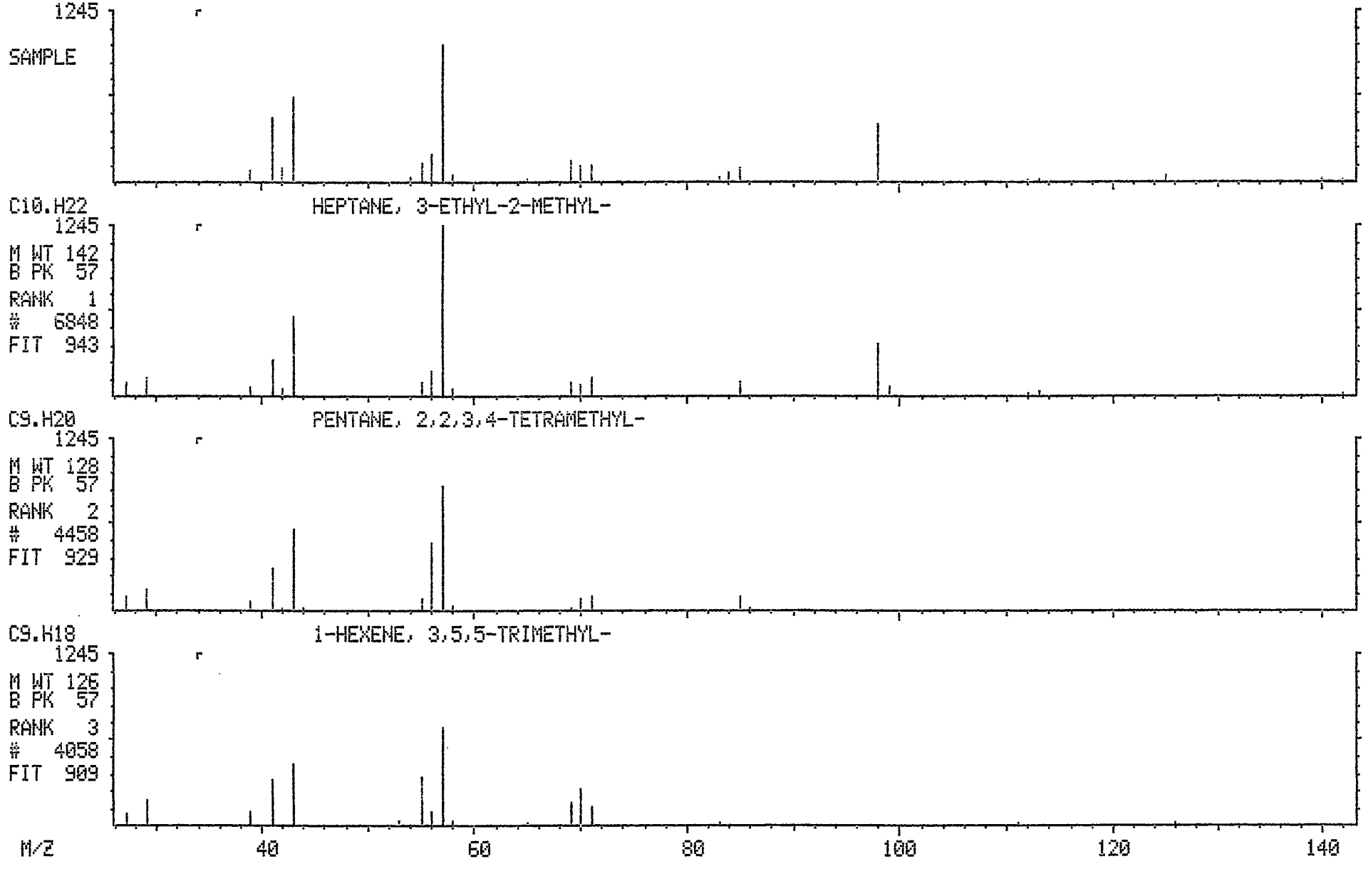
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	----	----	----	----	14676-29-0
2	----	----	----	----	1186-53-4
3	----	----	----	----	4316-65-8
4	----	----	----	----	17615-91-7
5	----	----	----	----	16789-46-1

Mass	Inten	1	2	3	4	5
27		97	95	87		92
29		129	143	184	158	85
39	81	63	68	101		87
41	469	271	292	335	228	287
42	94	53	19		82	111
43	617	575	586	449	757	1216
44			18			36
53				29		
54	27					
55	124	105	77	349	122	166
56	206	176	481	106	271	176
57	999	1245	891	708	948	498
58	42	51	24	31		
65	0			22		
69	154	94	20	158	92	88
70	118	83	82	265	86	
71	107	134	102	132	147	32
83	37			10		
84	66				197	134
85	95	101	94		151	119
86			5			6
98	419	390			165	
99		71			32	4
111				19		
112	19	10			11	
113	12	26			39	
125	49					
126				1	2	
127					19	
140	16					
141					0	

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 16:45
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX002V #1005
CALI: EX002V # 3

BASE M/Z: 57
RIC: 14144.



1 2

155
184

Library Search Data: EXQ02V #1061 Base m/z: 69
11/11/93 15:53:00 + 17:41 Cali: EXQ02V # 3 RIC: 27552.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
163 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6433	CYCLOHEXANE, 1,1,2,3-TETRAMETHYL-
2	6439	3-NONENE, 2-METHYL-
3	6432	3-OCTENE, 2,6-DIMETHYL-
4	4057	1-HEXENE, 3,3,5-TRIMETHYL-
5	4059	CYCLOHEXANE, 1,1,2-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20	140	69	848	982	848
2	C10.H20	140	69	630	966	630
3	C10.H20	140	55	696	959	696
4	C9.H18	126	69	646	957	646
5	C9.H18	126	69	646	957	646

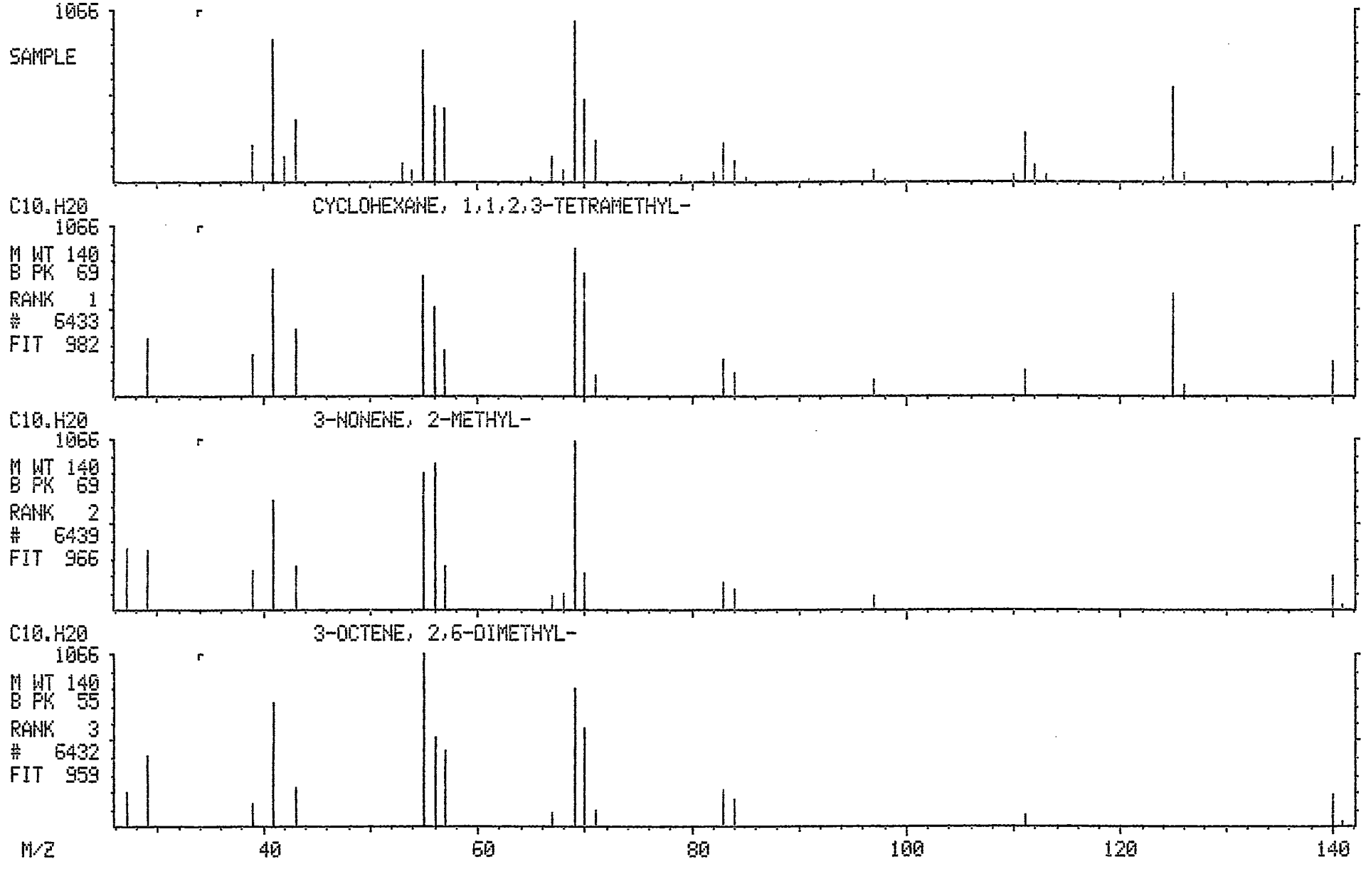
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	6783-92-2
2	___	___	___	___	53966-53-3
3	___	___	___	___	6874-28-8
4	___	___	___	___	13427-43-5
5	___	___	___	___	7094-26-0

Mass	Inten	1	2	3	4	5
27			381	207	188	425
29		353	370	443	163	420
39	223	250	237	144	194	361
41	875	799	689	761	1163	987
42	158				122	193
43	390	408	276	241	313	406
53	112				69	121
54	65					
55	812	755	848	1066	624	937
56	470	557	916	559	409	514
57	451	288	272	473	300	200
65	25					
67	154		92	86	80	83
68	66		97		107	
69	999	921	1047	855	1373	1119
70	517	771	227	604	540	190
71	262	129		101		
79	39					
82	60					
83	235	233	164	225	174	278
84	129	148	128	176	89	
85	30					
91	6					
97	75	94	85			
98	21					
110	36					18
111	296	149		63	70	385
112	102					37
113	41					
124	32					
125	580	632				

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 17:41
SAMPLE: EX002
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX002V #1061
CALI: EX002V # 3

BASE M/Z: 69
RIC: 27552.



206 24
208 22
211
209 21
140
141

Library Search Data: EXQ02V #1084 Base m/z: 281
11/11/93 15:53:00 + 18:04 Cali: EXQ02V # 3 RIC: 17824.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
88 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	33218	CYCLOTETRASILOXANE, OCTAMETHYL-
2	38132	1,1,1,3,5,7,9,9,9-NONAMETHYLPENTASILOXANE
3	40286	3-BUTOXY-1,1,1,5,5,5-HEXAMETHYL-3-(TRIMETHYLSILOXY)TRISILOXANE
4	39176	3-ISOPROPOXY-1,1,1,5,5,5-HEXAMETHYL-3-(TRIMETHYLSILOXY)TRISILOXANE
5	40284	1,3,5-TRIETHYL-1-(ETHYLBUTOXYSILOXY)CYCLOTRISILOXANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H24.O4.SI4	296	281	770	944	797
2	C9.H30.O4.SI5	342	281	664	933	686
3	C13.H36.O4.SI4	368	281	734	894	773
4	C12.H34.O4.SI4	354	281	686	888	728
5	C12.H32.O5.SI4	368	281	463	797	530

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	556-67-2
2	___	___	___	___	94409-41-6
3	___	___	___	___	87867-97-8
4	___	___	___	___	72182-11-7
5	___	___	___	___	73420-25-4

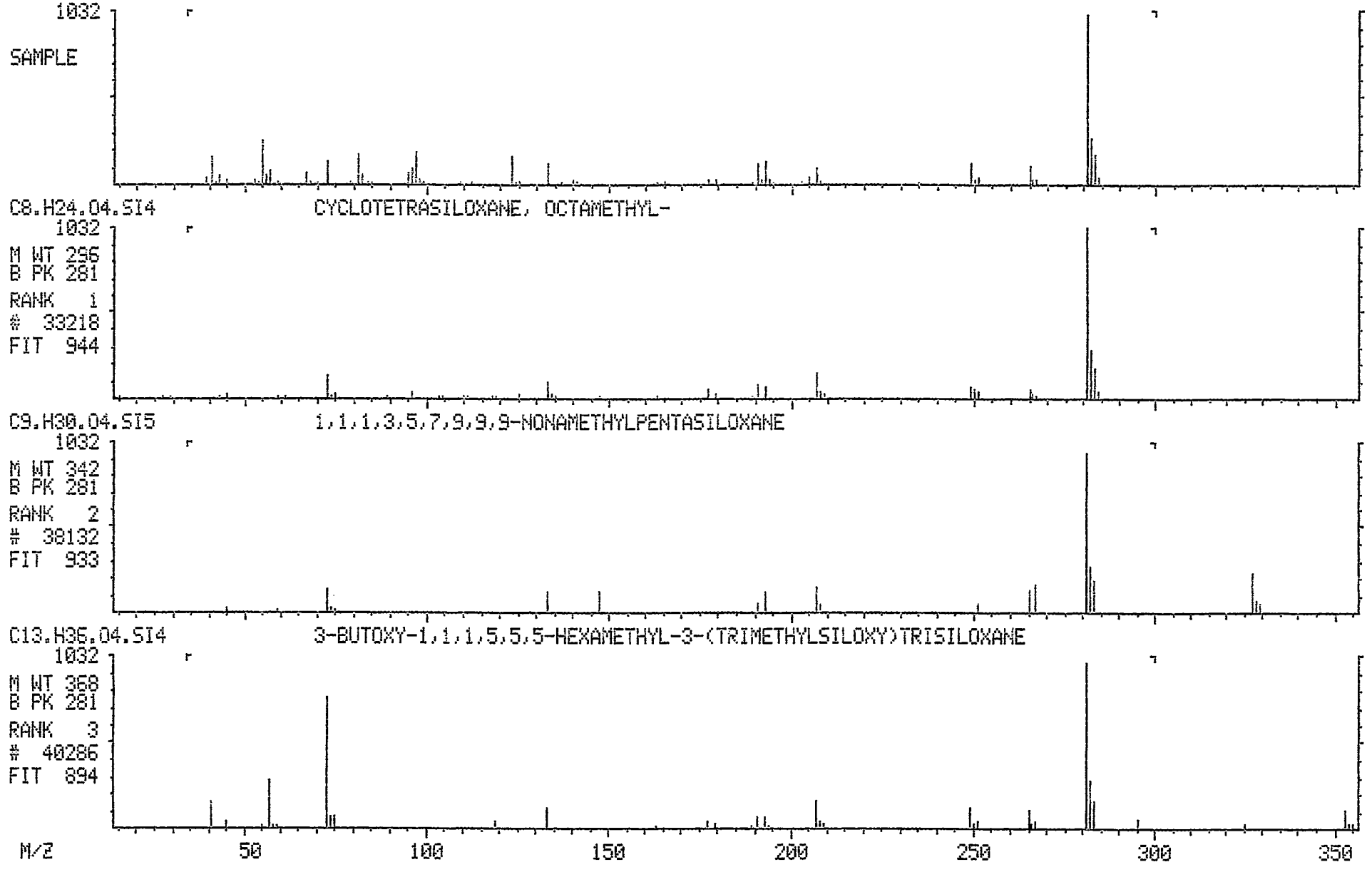
Mass	Inten	1	2	3	4	5
15		20				
27		4				
29		6				
39	37					
41	170			171		
42	20					
43	59	5			428	
45	23	22	23	37	150	
53	22					
54	19					
55	261			15		
56	56					
57	86			291		540
58				14		89
59	13	18	18	17	61	65
61		11				
67	68					
68	15					
70	17					
73	143	138	143	786	782	
74		15	22	73	73	
75		27	18	64	63	
79	11					
81	179					
82	60					
83						22
84	10					10
85	9					25
89		15				
95	61					
96	99	44				

98	32					
99	5					
103		8				
104		2				
109	15					
110		5				
111		5				
112	7					
118		11				
119		12		46	49	
123	161					
124	14					
125	12	25				
126						9
133	116	101	116	116	116	23
134		22				16
135		7				18
137	6					
140	31					
141	2					
147		9	116			
163	8	14		13	17	
165	7					
177	34	49		38	35	
179	27	31		32	26	
183						23
185						18
186						2
189	1	10		12		
190					55	
191	120	77	61	66		
192	20				18	
193	144	69	130	67	49	
194	22			11		
195	11					
203	12					
205	45				19	
207	95	157	147	171	173	
208	15	35	39	36	42	
209		31		26	19	
235	7					
249	118	73		128	120	
250	27	51		32	32	
251	44	44	60	34	35	44
253						136
254						12
265	111	60	132	106	108	
266	25	27		30	30	
267	25	20	167	37	29	
281	999	1032	962	988	1018	630
282	279	292	280	288	272	359
283	178	183	191	166	162	351
284	42	37				75
285						23
295				49		
297					32	
325				20		136
326						60
327			240			26
328			73			
329			60			
339					242	49
340					74	11
341					37	
353				110		

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 18:04
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V #1084
CALI: EXQ02V # 3

BASE M/Z: 281
RIC: 17824.



Library Search Data: EXQ02V #1093 Base m/z: 105
11/11/93 15:53:00 + 18:13 Cali: EXQ02V # 3 RIC: 16448.
Sample: EXQ02
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
428 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3292	BENZENE, 1-ETHYL-3-METHYL-
2	5952	BICYCLO[3.1.0]HEXAN-2-ONE, 5-(1-METHYLETHYL)-
3	3288	BENZENE, 1-ETHYL-2-METHYL-
4	3293	BENZENE, 1-ETHYL-4-METHYL-
5	996	PENTADIENAL, 2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	105	544	967	559
2	C9.H14.O	138	81	356	963	356
3	C9.H12	120	105	533	959	553
4	C9.H12	120	105	530	954	551
5	C6.H8.O	96	96	174	942	174

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	620-14-4
2	___	___	___	___	513-20-2
3	___	___	___	___	611-14-3
4	___	___	___	___	622-96-8
5	___	___	___	___	3937-51-7

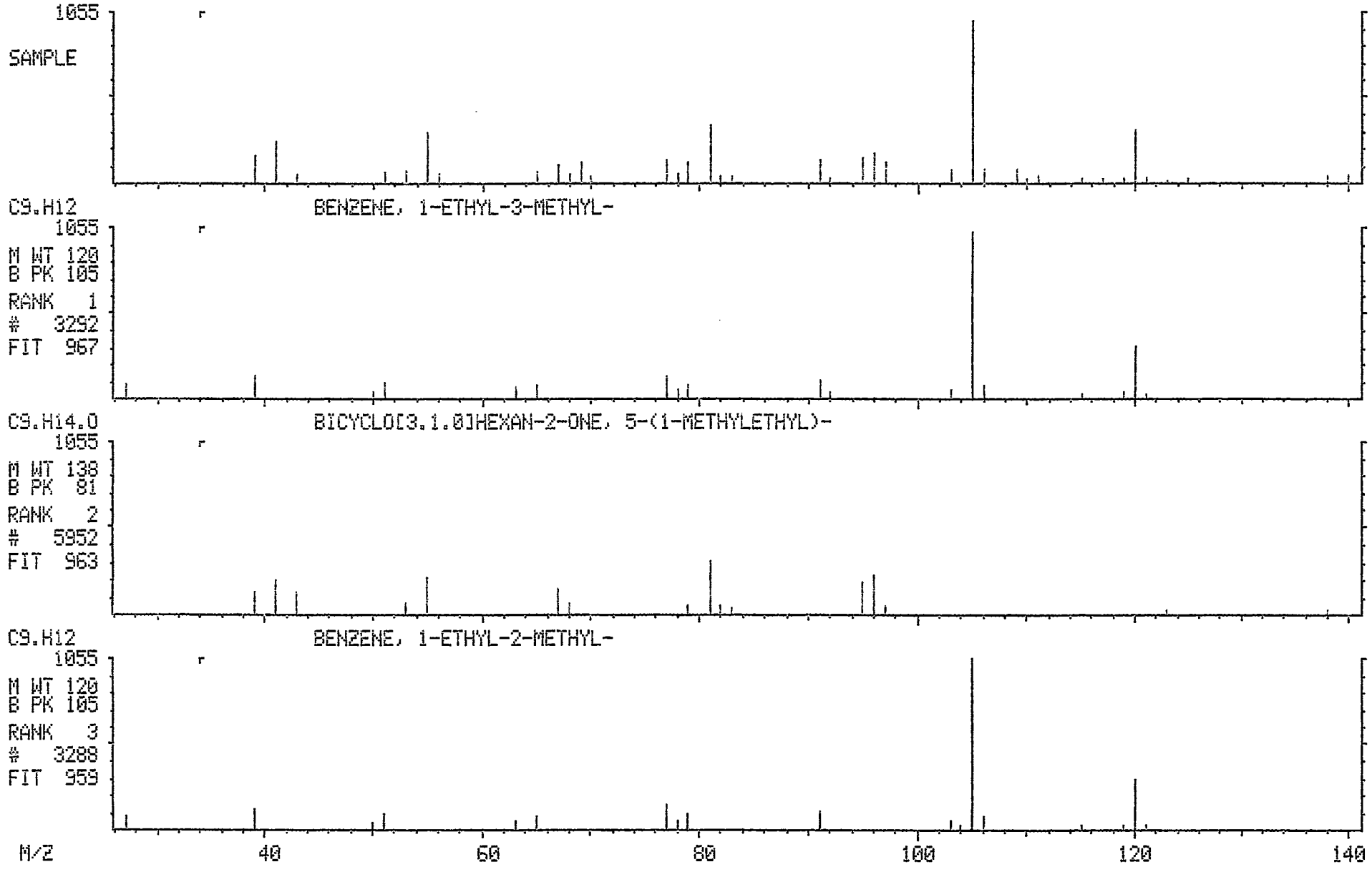
Mass	Inten	1	2	3	4	5
27		84		85	82	
39	162	136	136	132	130	
41	259		212			157
43	53		137			
50		39		38	41	
51	69	92		95	95	
53	66		70			126
55	313		224			
56	59					
63		66		61	66	
65	76	80		78	80	
67	119		150			
68	54		71			
69	123					
70	43					
77	135	143		148	154	
78	61	52		51	56	
79	123	83	51	99	89	
81	350		317			194
82	48		60			
83	45		47			
91	134	115		115	101	
92	34	44				
95	149		194			130
96	183		243			298
97	126		54			
103	86	50		53	50	
104				25	27	
105	999	1026		1054	1067	
106	88	87		90	91	
109	78					

111	37				
115	29	21		24	21
117	25				
119	21	38		22	31
120	318	324		311	304
121	31	30		30	29
123	16		27		
125	27				
138	38		27		
140	37				

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 15:53:00 + 18:13
SAMPLE: EXQ02
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ02V #1093
CALI: EXQ02V # 3

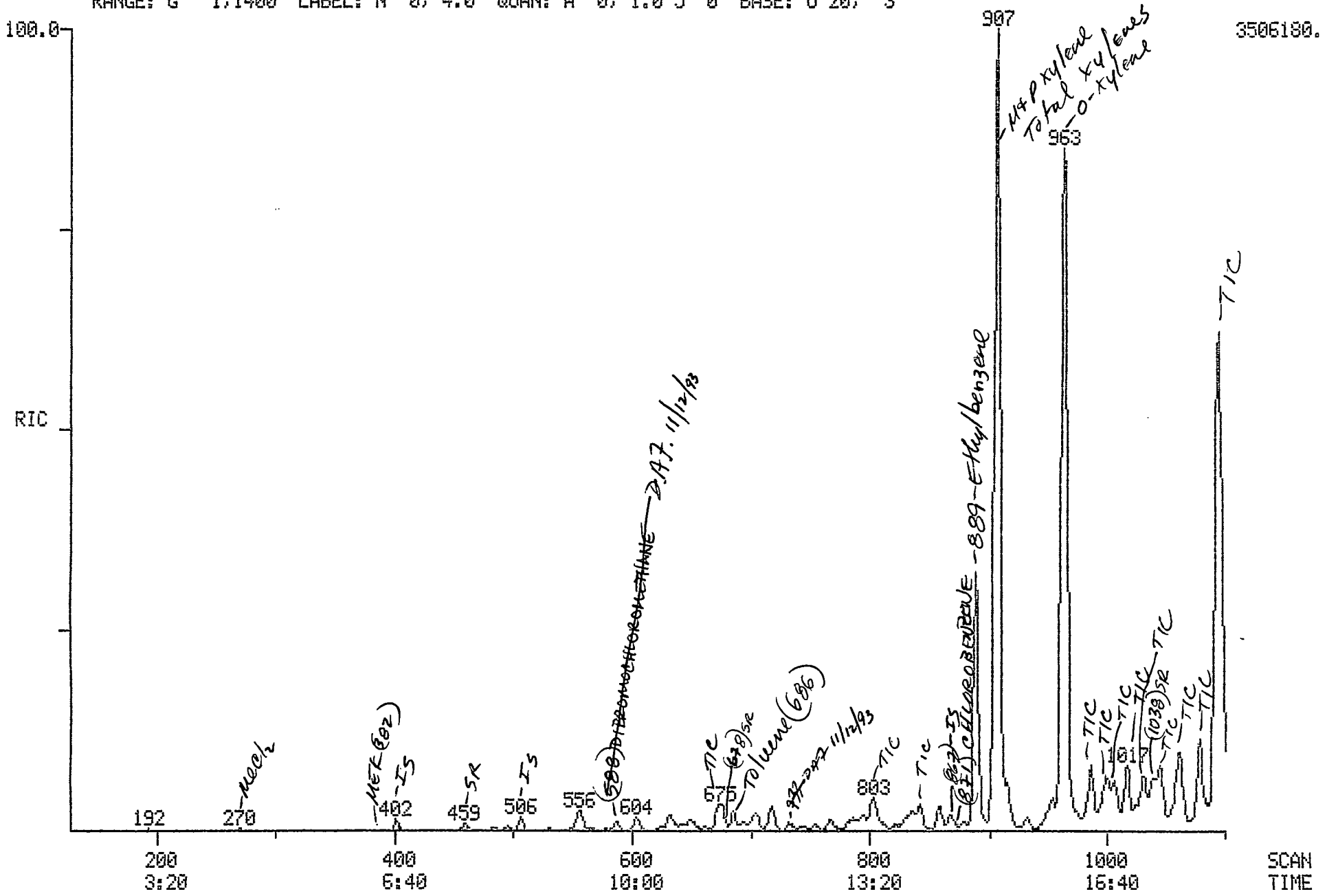
BASE M/Z: 105
RIC: 16448.



RIC
11/11/93 17:32:00
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ03V #1
CALI: EXQ03V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ03V

Data: EXQ03V.TI
11/11/93 17:32:00
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1 X2

DAT. 11/12/93 RR 1.625

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C110 2-BUTANONE
9	C230 TOLUENE
10	C235 CHLOROBENZENE
11	C240 ETHYLBENZENE
12	C250 TOTAL XYLENES

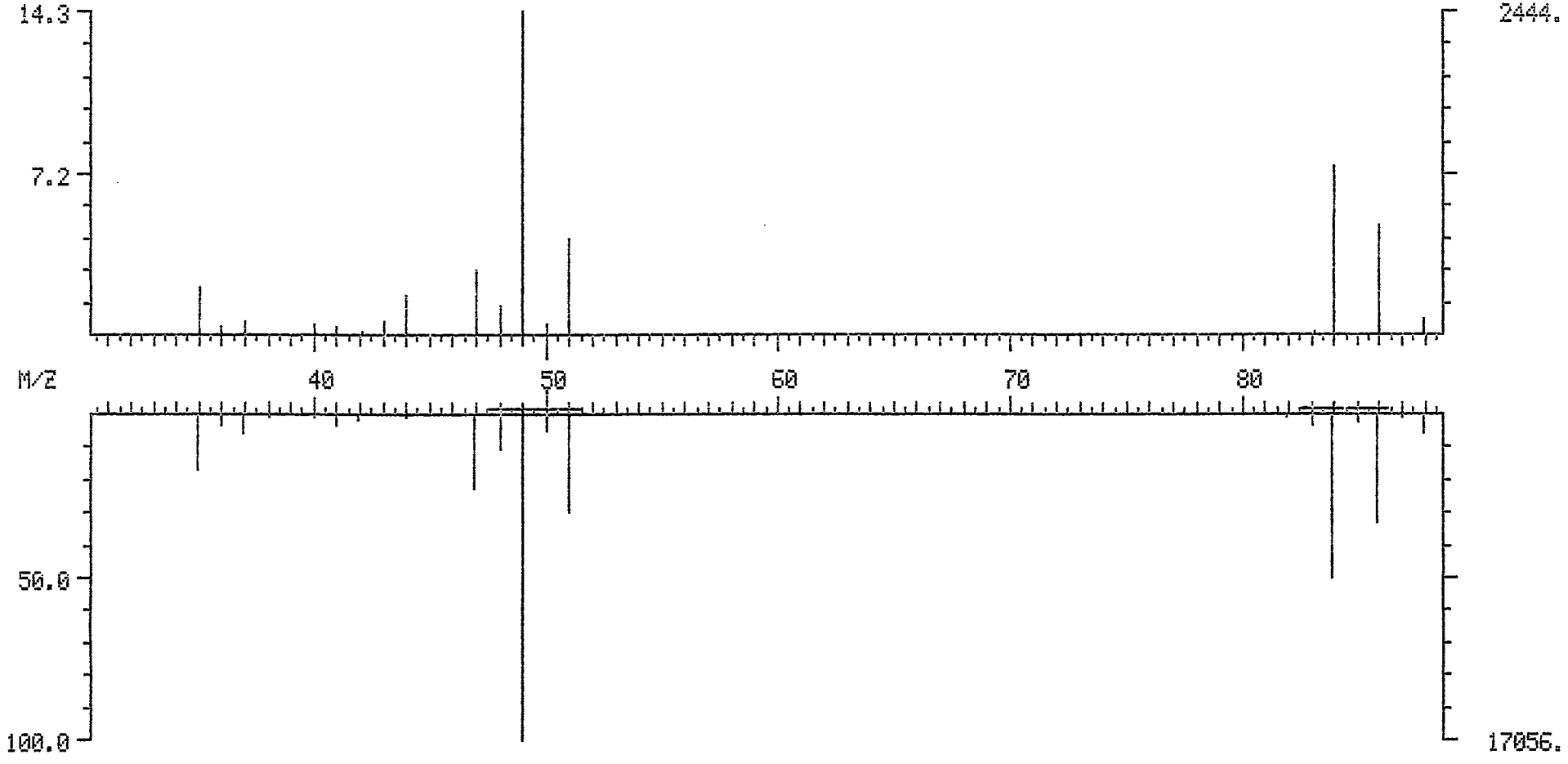
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	25446.	50.000	NG/ML	0.90
2	114	506	8:26	2	1.000	A BB	111754.	50.000	NG/ML	0.90
3	117	867	14:27	3	1.000	A BB	83960.	50.000	NG/ML	0.90
4	65	459	7:39	1	1.142	A BB	57000.	47.055	NG/ML	0.84
5	98	678	11:18	3	0.782	A BB	104721.	60.605	NG/ML	1.09
6	95	1038	17:18	3	1.197	A VV	68132.	46.521	NG/UL	0.83
7	84	270	4:30	1	0.672	A BB	4650.	5.809	NG/ML	0.10
8	43	382	6:22	1	0.950	A BB	1458.	3.418	NG/ML	0.06
9	91	686	11:26	3	0.791	A BB	146558.	69.815	NG/ML	1.25
10	112	871	14:31	3	1.005	A BB	25289.	13.834	NG/ML	0.25
11	106	889	14:49	3	1.025	A BB	737083.	813.113	NG/ML	14.58
12	106	907	15:07	3	1.046	M XX	5425040.	4367.720	NG/ML	78.30

DAT 11/12/93

DUAL MASS SPECTRUM
11/11/93 17:32:00 + 4:30
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ03V #270
CALI: EXQ03V #3
DATA: 50VZ1111Z #270

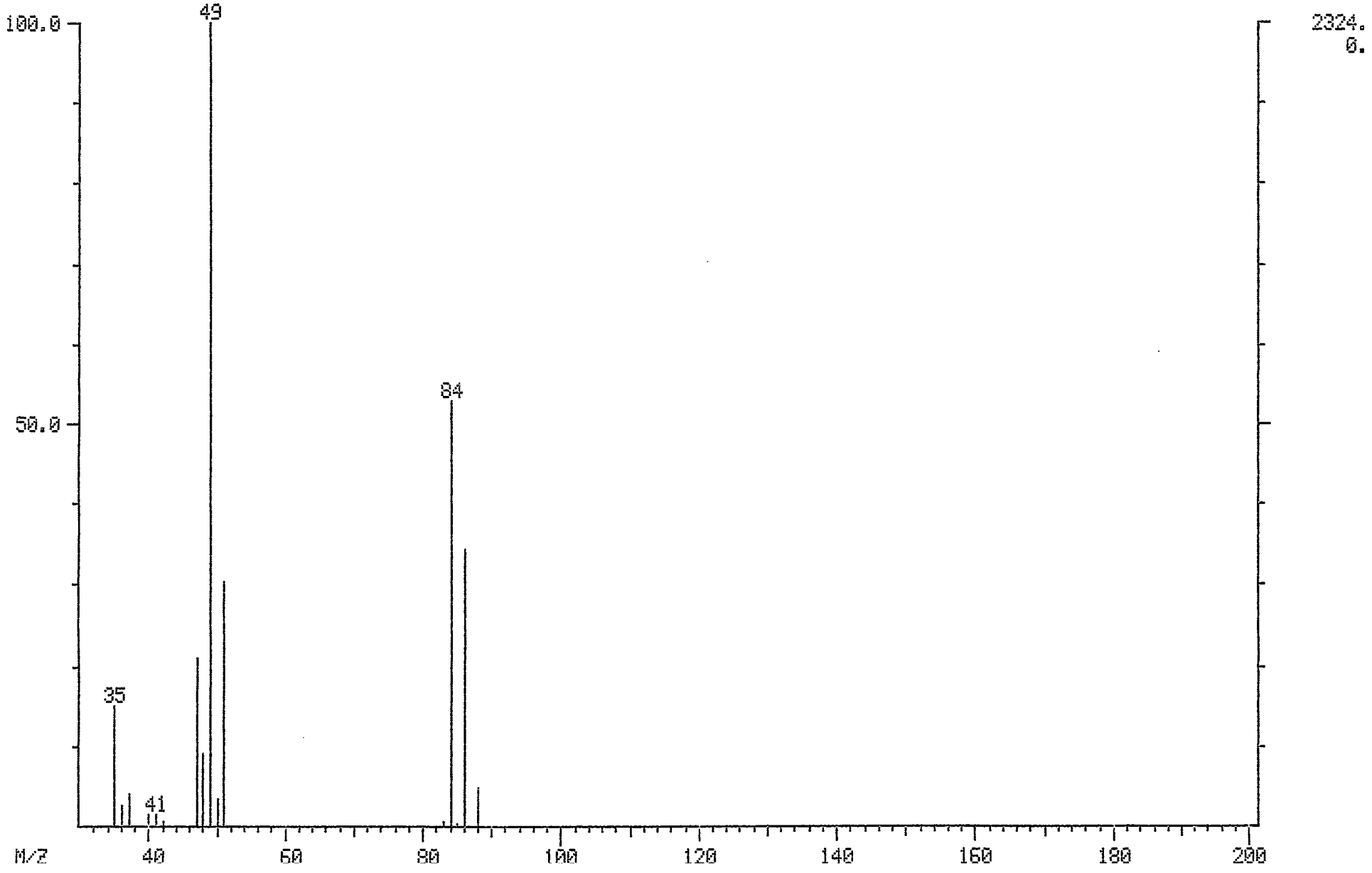
BASE M/Z: 49/ 49
RIC: 7264./ 50560.



MASS SPECTRUM
11/11/93 17:32:00 + 4:30
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ03V #270
CALI: EXQ03V #3

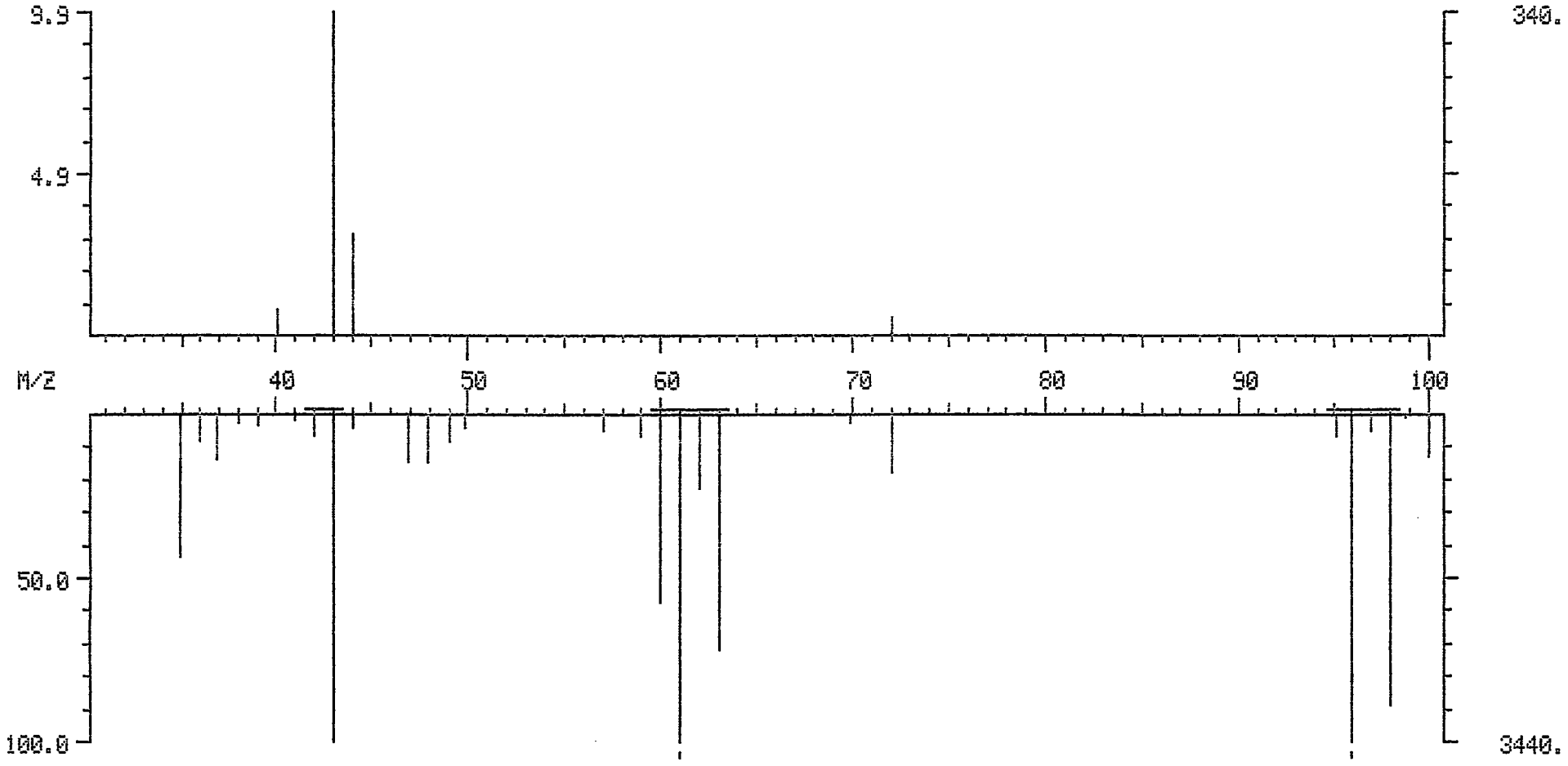
BASE M/Z: 49
RIC: 6552.



DUAL MASS SPECTRUM
11/11/93 17:32:00 + 6:22
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
NAME: C110 2-BUTANONE

DATA: EXQ03V #382
CALI: EXQ03V #3
DATA: 50VZ1111Z #382

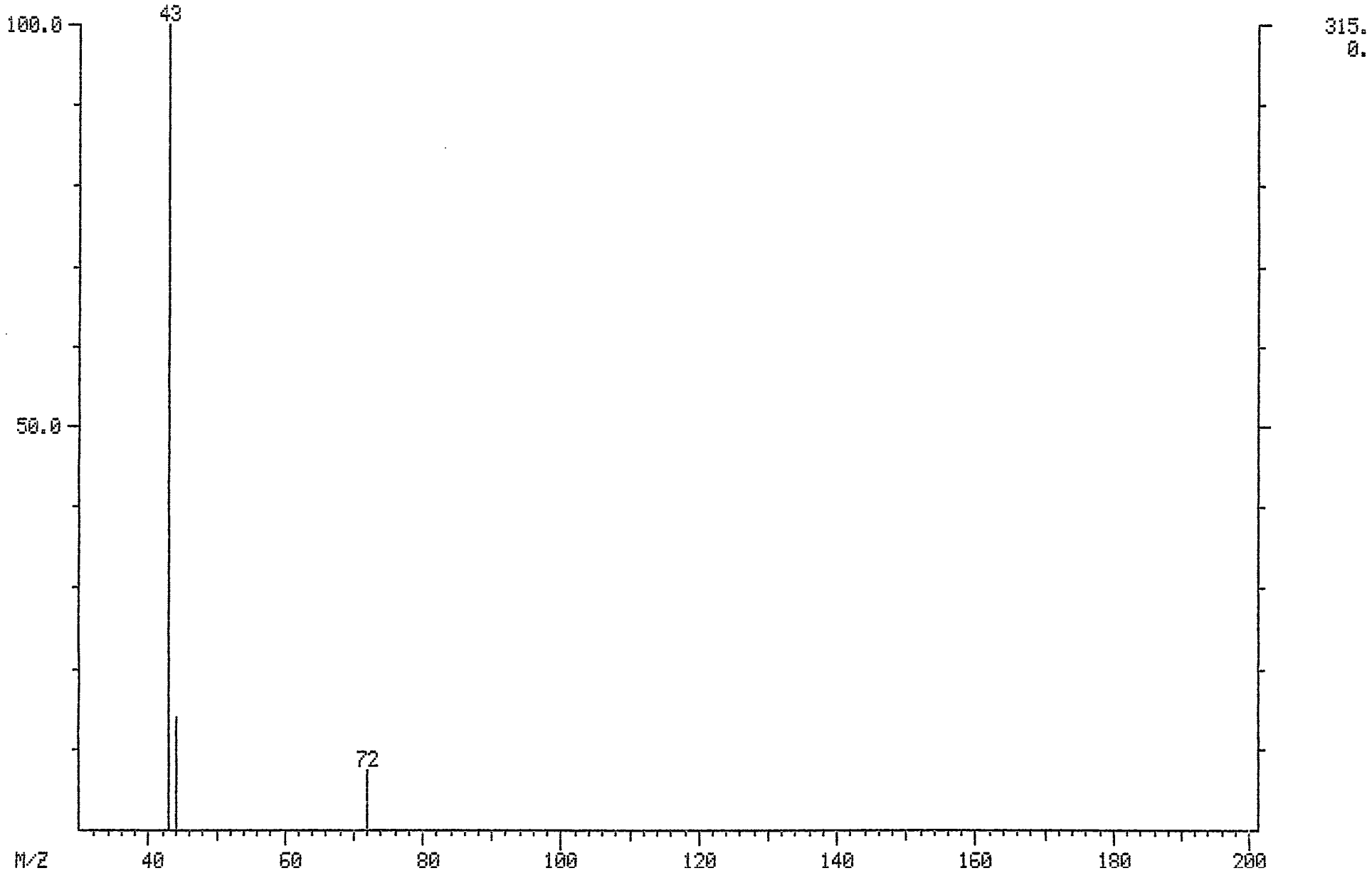
BASE M/Z: 43/ 61
RIC: 492./ 30528.



MASS SPECTRUM
11/11/93 17:32:00 + 6:22
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: EXQ03V #382
CALI: EXQ03V #3

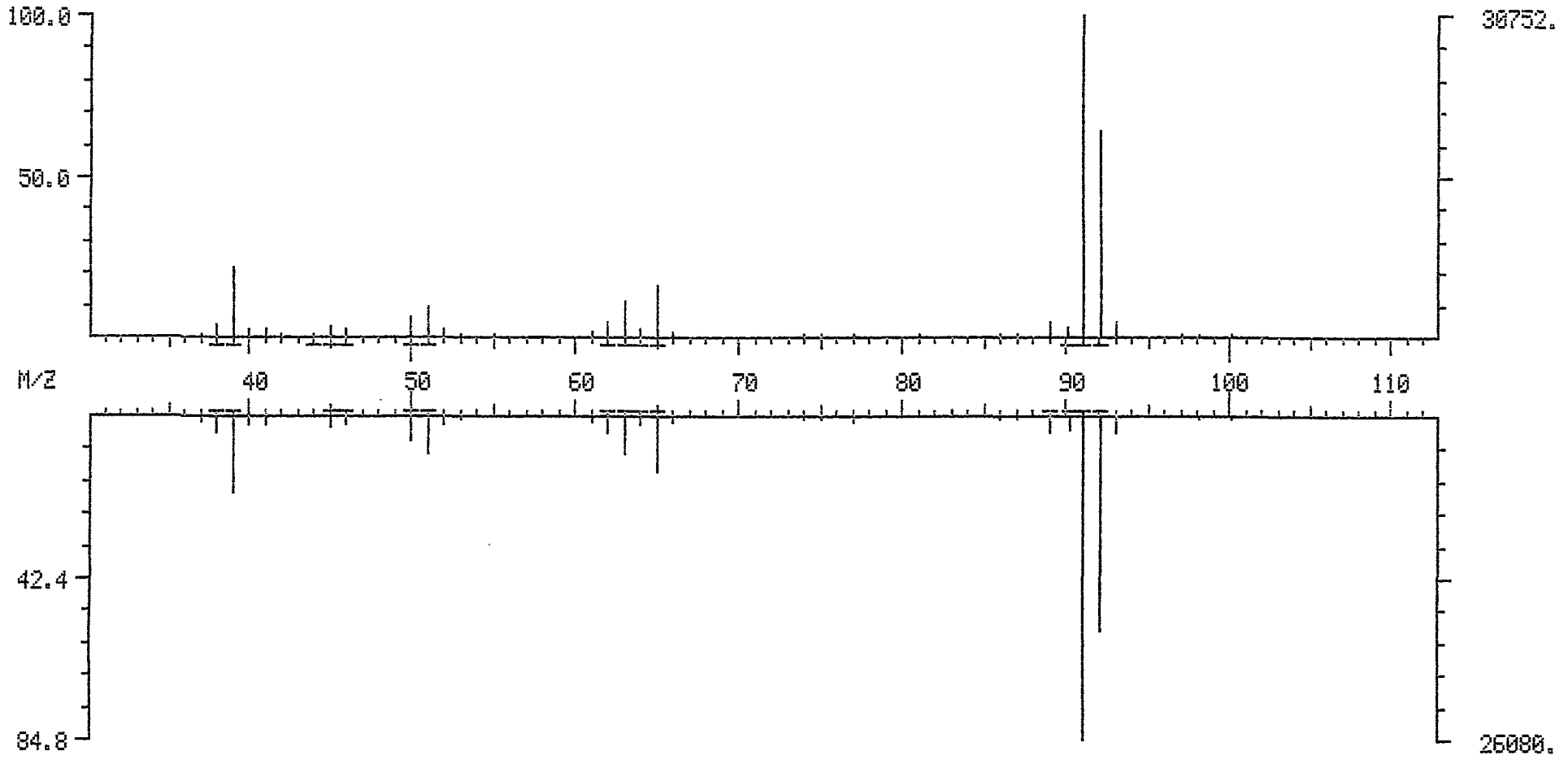
BASE M/Z: 43
RIC: 382.



DUAL MASS SPECTRUM
11/11/93 17:32:00 + 11:26
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 95 DEG. C
NAME: C230 TOLUENE

DATA: EXQ03V #686
CALI: EXQ03V #3
DATA: 50VZ1111Z #686

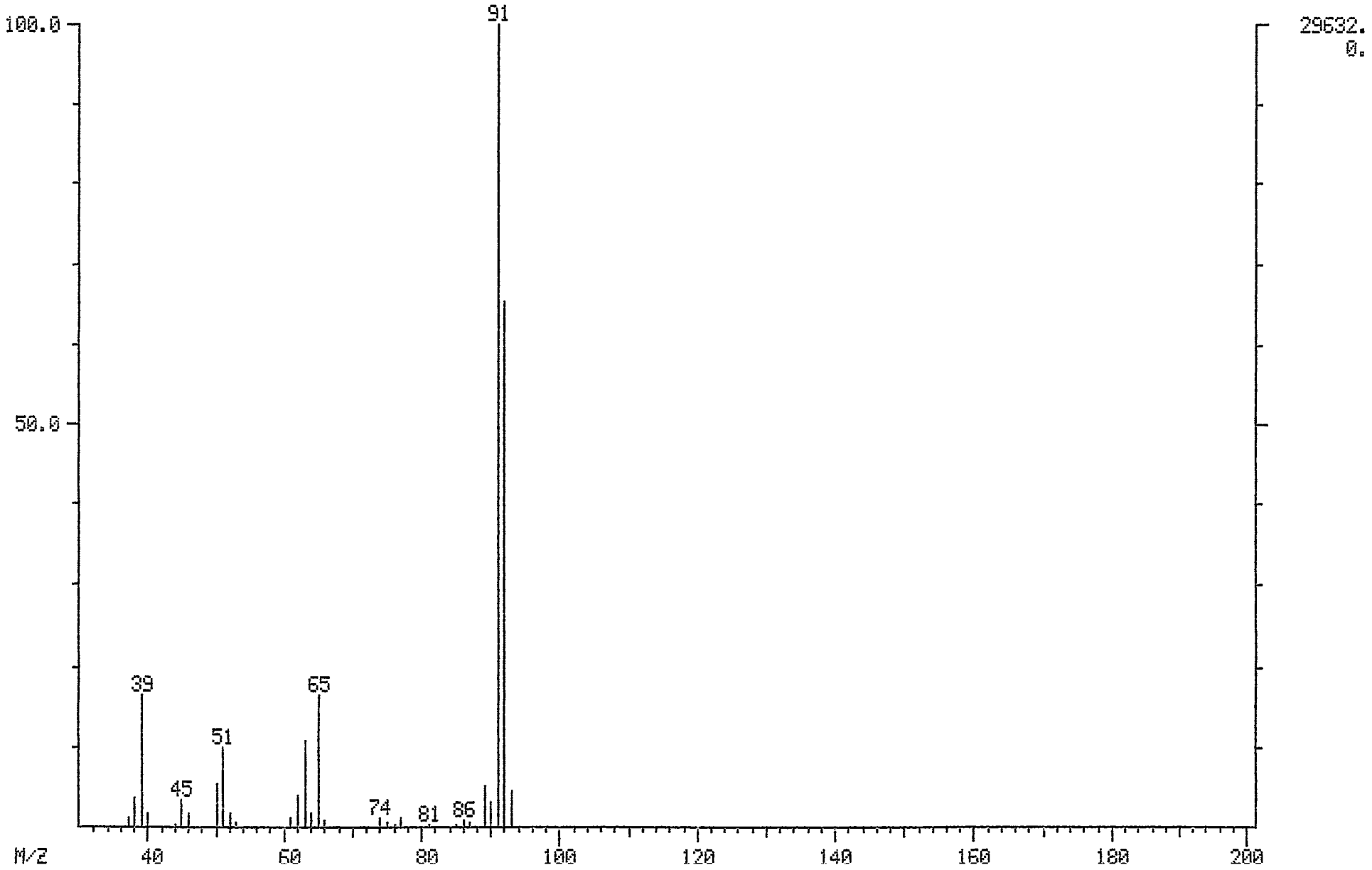
BASE M/Z: 91/ 91
RIC: 87168./ 75264.



MASS SPECTRUM
11/11/93 17:32:00 + 11:26
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 95 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C230 TOLUENE

DATA: EXQ03V #686
CALI: EXQ03V #3

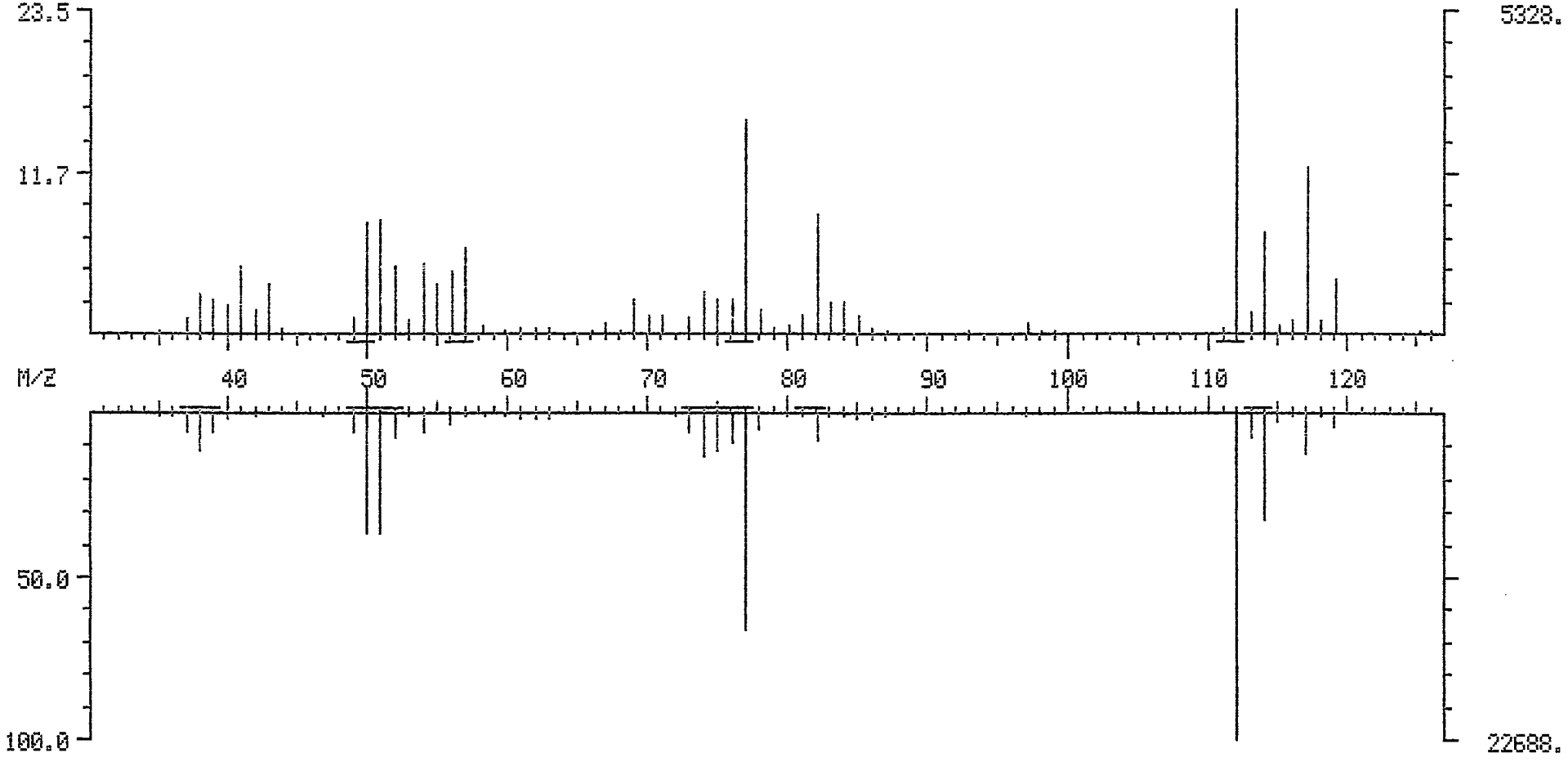
BASE M/Z: 91
RIC: 78336.



DUAL MASS SPECTRUM
11/11/93 17:32:00 + 14:31
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 114 DEG. C
NAME: C235 CHLOROBENZENE

DATA: EXQ03V #871
CALI: EXQ03V #3
DATA: 50VZ1111Z #871

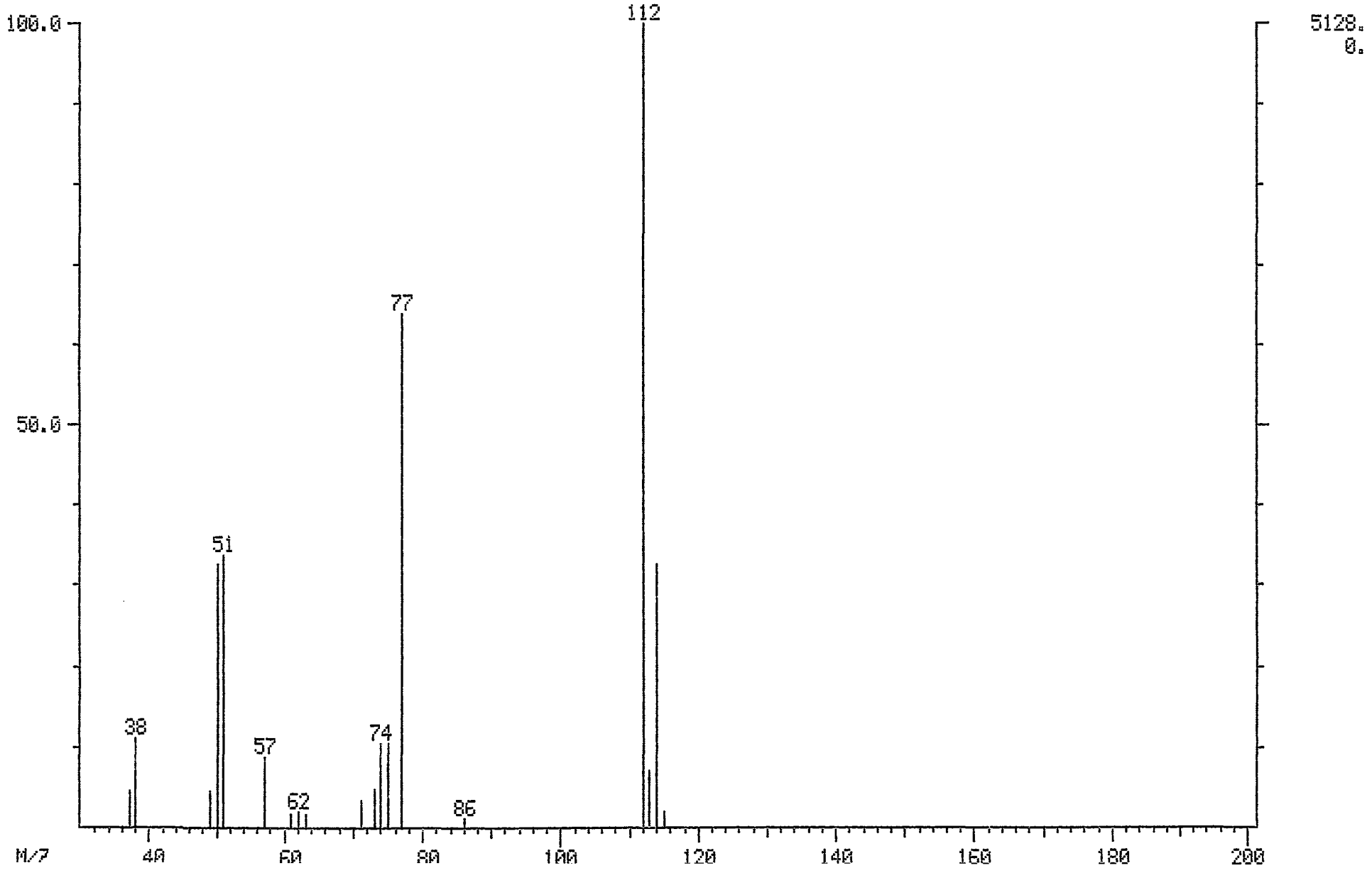
BASE M/Z: 112/ 112
RIC: 37760./ 94464.



MASS SPECTRUM
11/11/93 17:32:00 + 14:31
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 114 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C235 CHLOROBENZENE

DATA: EXQ03V #871
CALI: EXQ03V #3

BASE M/Z: 112
RIC: 17280.

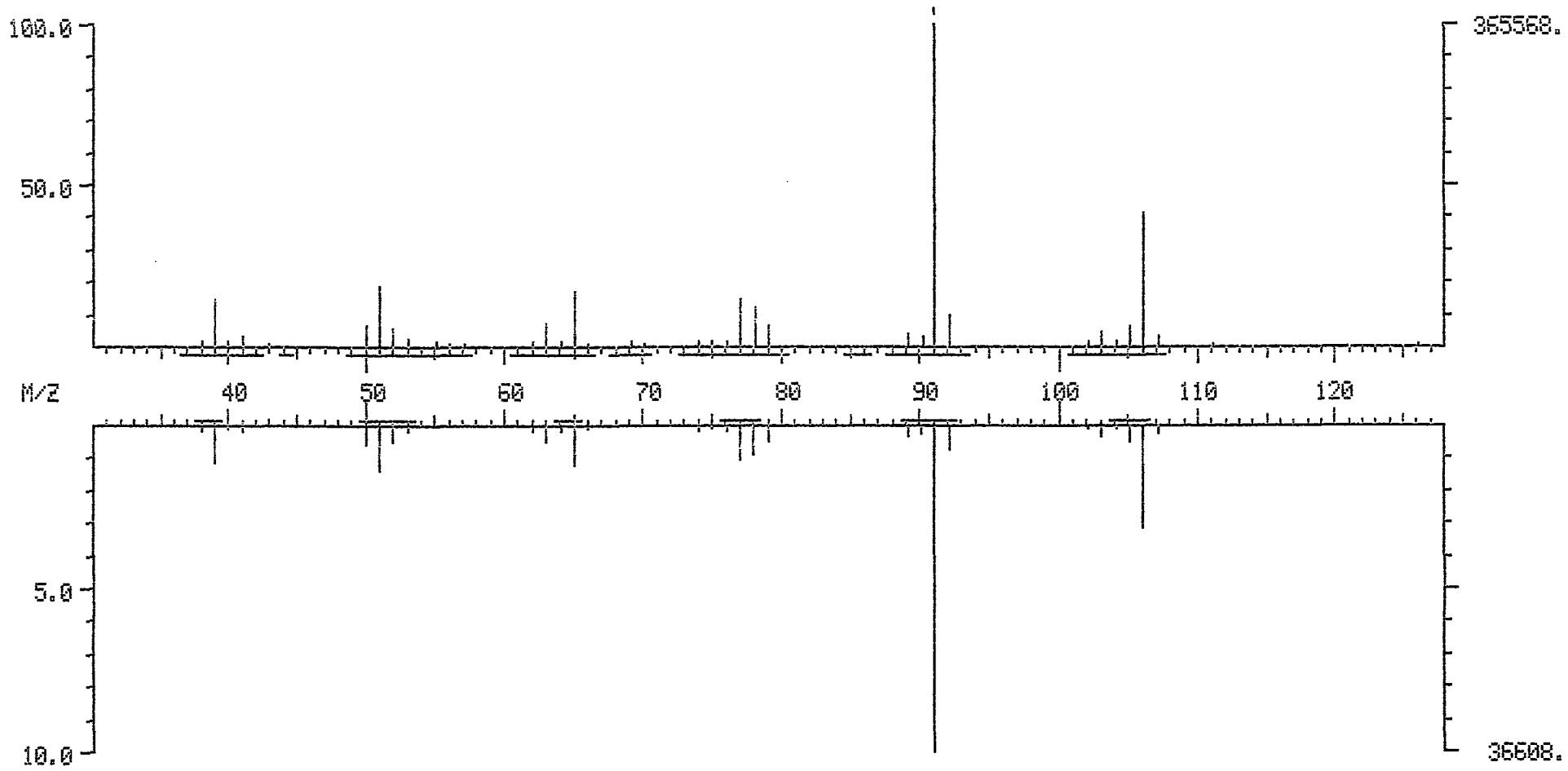


87

DUAL MASS SPECTRUM
11/11/93 17:32:00 + 14:49
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 025):
TEMP: 115 DEG. C
NAME: C240 ETHYLBENZENE

DATA: EXQ03V #889
CALI: EXQ03V #3
DATA: 50VZ1111Z #888

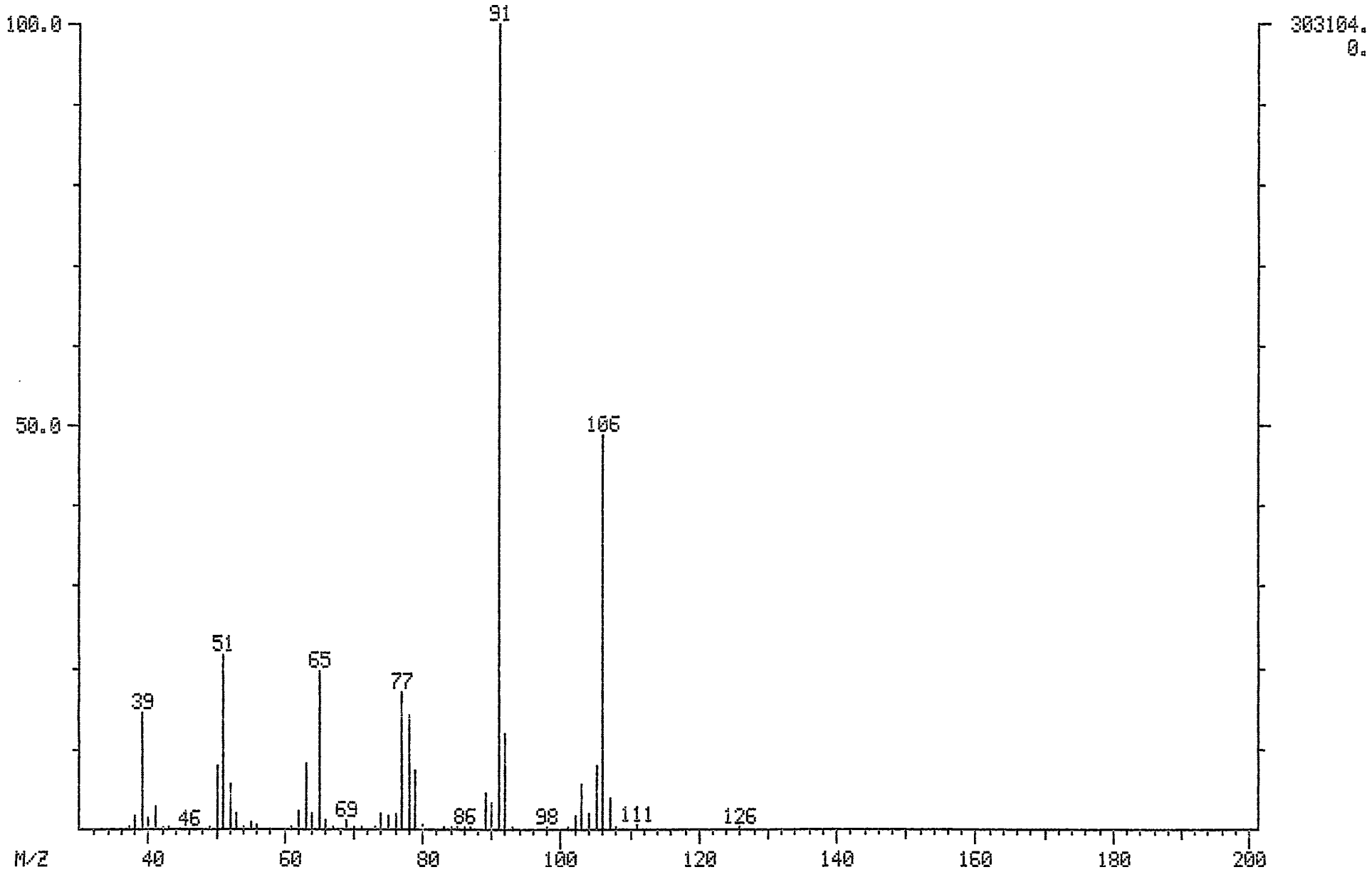
BASE M/Z: 91/ 91
RIC: 1128450./ 90880.



MASS SPECTRUM
11/11/93 17:32:00 + 14:49
SAMPLE: EX003
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C240 ETHYLBENZENE

DATA: EX003V #889
CALI: EX003V #3

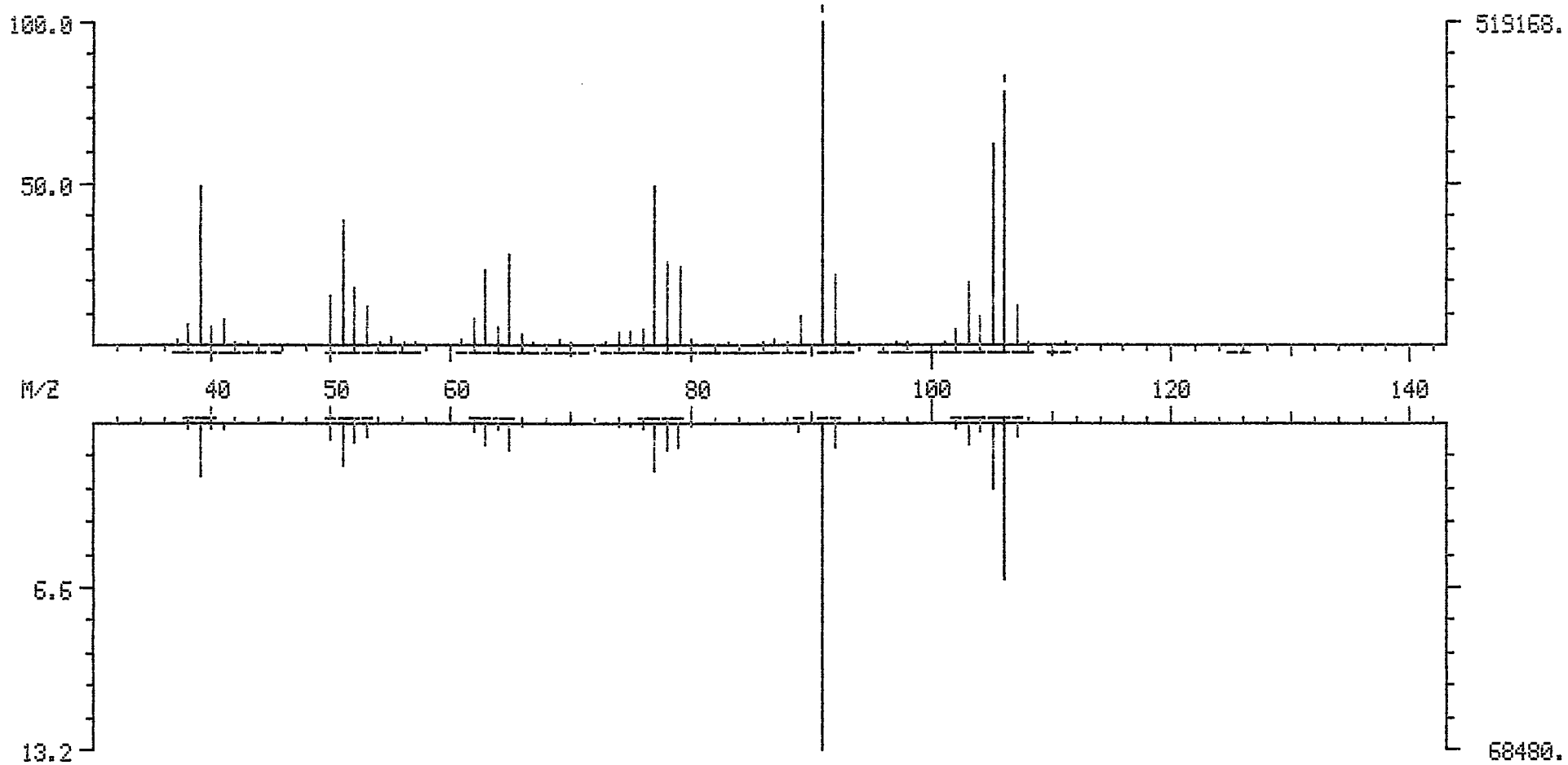
BASE M/Z: 91
RIC: 1015810.



DUAL MASS SPECTRUM
11/11/93 17:32:00 + 15:07
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EXQ03V #907
CALI: EXQ03V #3
DATA: 50VZ1111Z #905

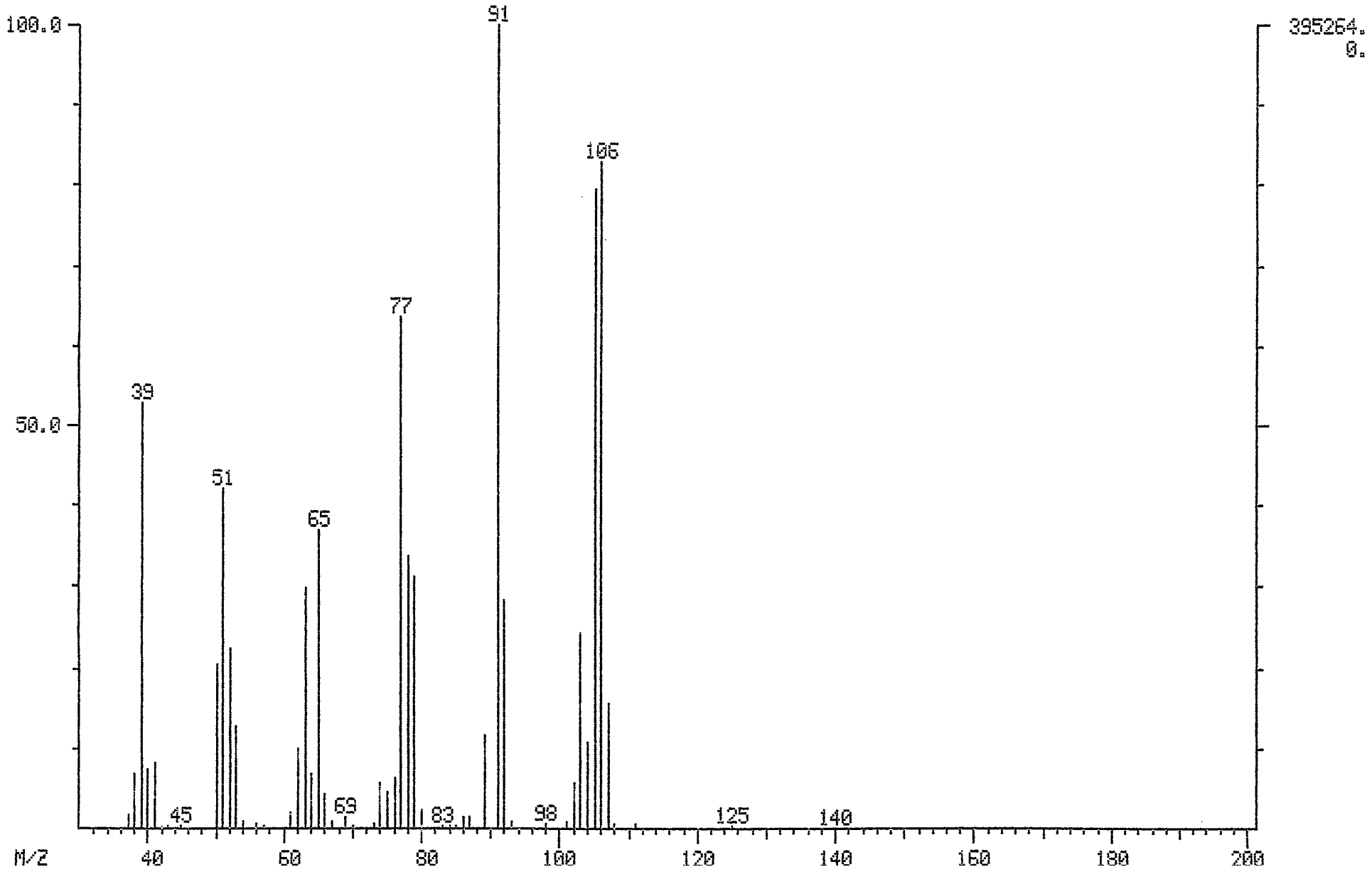
BASE M/Z: 91/ 91
RIC: 3510270./ 202752.



MASS SPECTRUM
11/11/93 17:32:00 + 15:07
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EXQ03V #907
CALI: EXQ03V #3

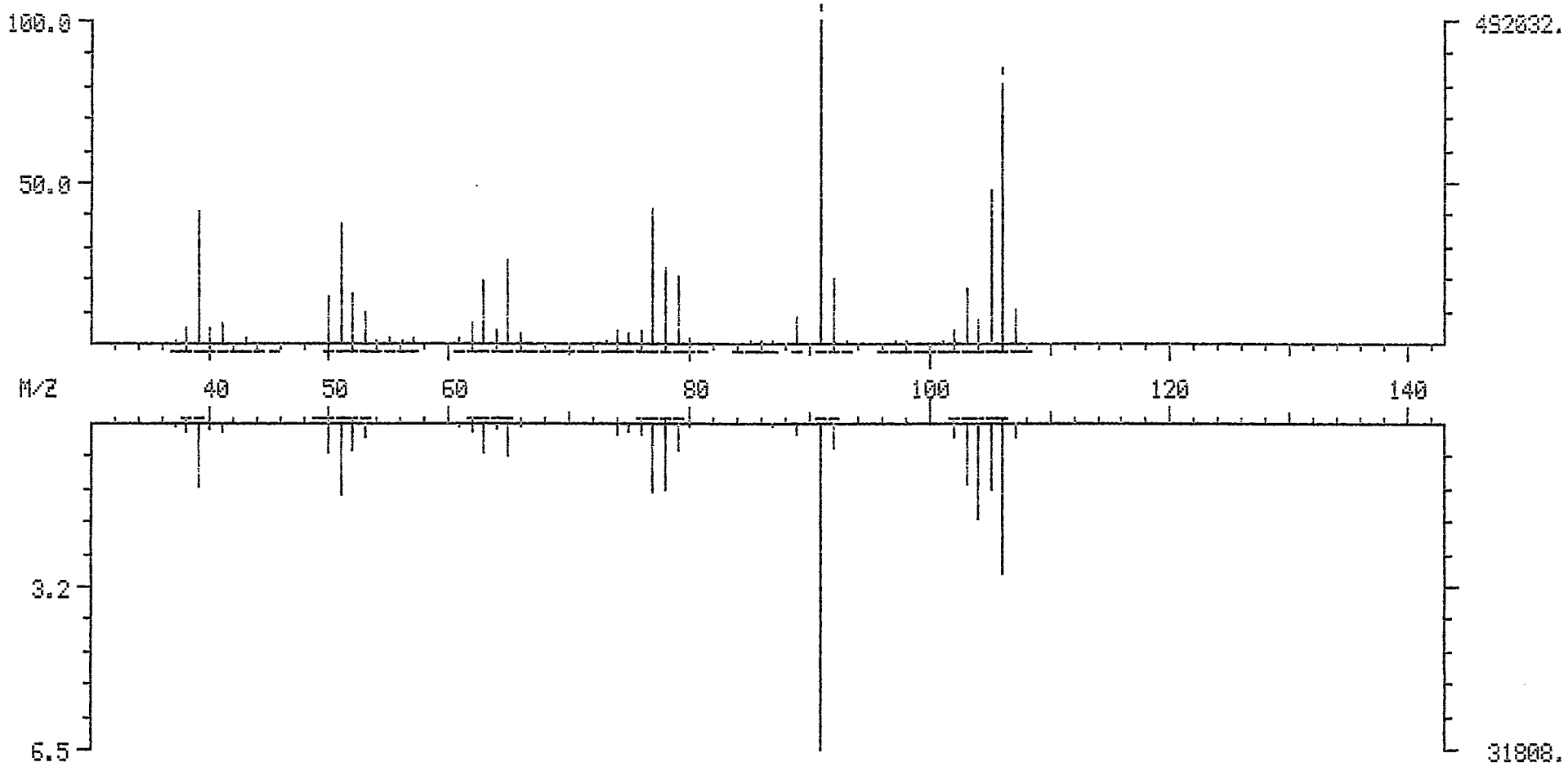
BASE M/Z: 91
RIC: 3112960.



DUAL MASS SPECTRUM
11/11/93 17:32:00 + 16:03
SECOND SPECTRUM
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 123 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EXQ03V #963
CALI: EXQ03V #3
DATA: 50VZ1111Z #961

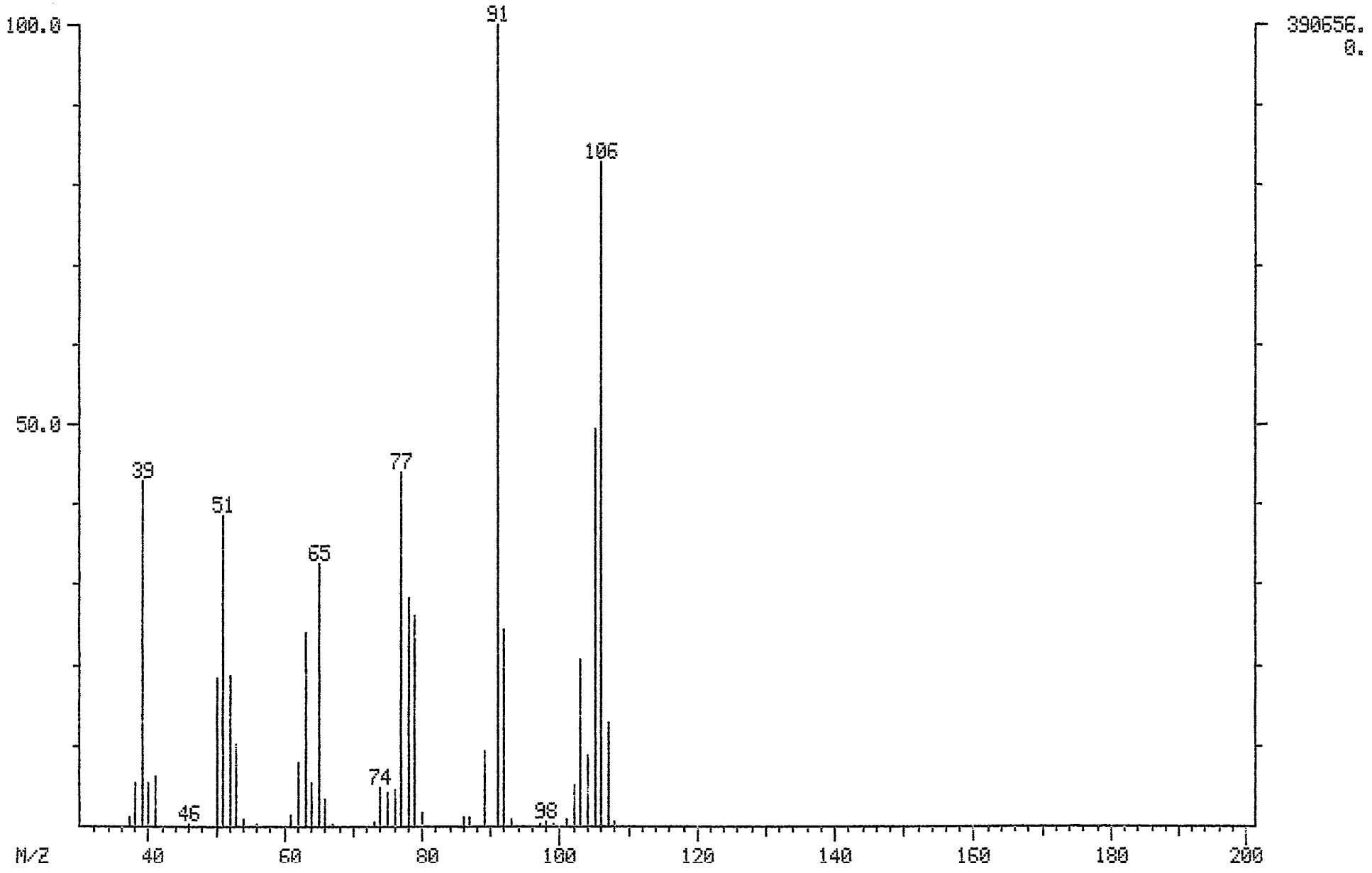
BASE M/Z: 91/ 91
RIC: 2981890./ 123136.



MASS SPECTRUM
11/11/93 17:32:00 + 16:03
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 123 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EXQ03V #963
CALI: EXQ03V #3

BASE M/Z: 91
RIC: 2572290.



Library Search Data: EXQ03V # 803 Base m/z: 111
11/11/93 17:32:00 + 13:23 Cali: EXQ03V # 3 RIC: 100480.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
123 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4032	CYCLOHEXANE, 1,1,3-TRIMETHYL-
2	4059	CYCLOHEXANE, 1,1,2-TRIMETHYL-
3	2404	3-HEXENE, 2,5-DIMETHYL-, (E)-
4	4048	CYCLOHEXANE, 1,3,5-TRIMETHYL-, (1.ALPHA.,3.ALPHA.,5.ALPHA.)-
5	4016	CYCLOHEXANE, 1,3,5-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	943	993	943
2	C9.H18	126	111	942	991	942
3	C8.H16	112	69	507	983	510
4	C9.H18	126	69	877	953	877
5	C9.H18	126	69	883	948	897

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	3073-66-3
2	___	___	___	___	7094-26-0
3	___	___	___	___	692-70-6
4	___	___	___	___	1795-27-3
5	___	___	___	___	1839-63-0

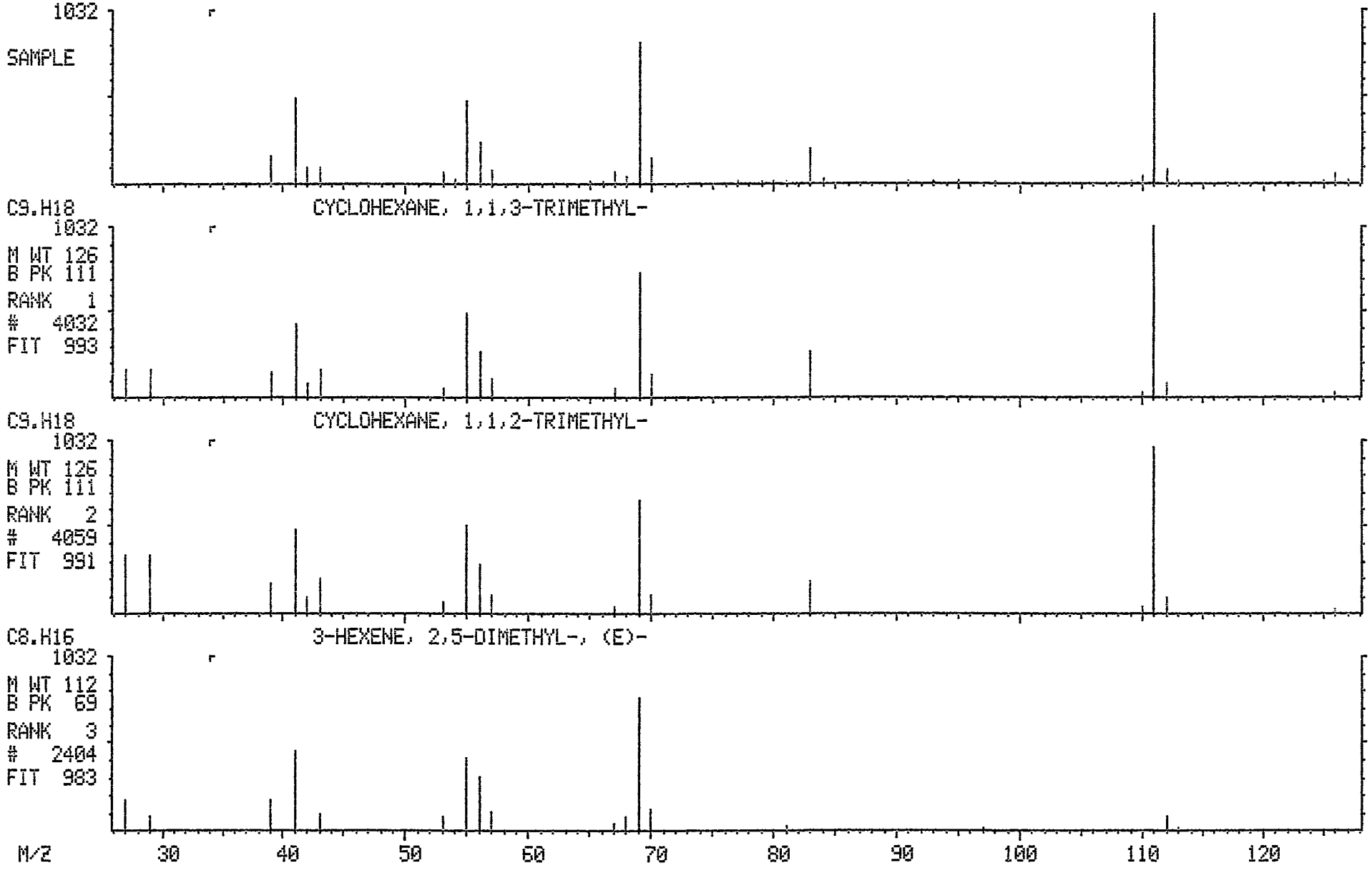
Mass	Inten	1	2	3	4	5
27		166	340	181	215	
28						138
29		160	337	88	164	
39	166	153	182	176	231	123
41	515	446	495	470	435	341
42	92	80	96		137	123
43	101	160	203	101	117	135
53	66	61	67	77	67	
54	21					
55	491	514	522	419	588	595
56	243	271	286	312	126	208
57	77	103	112	107	58	63
65	14					
66	4					
67	72	52	47	44		44
68	37			81		
69	833	759	669	779	878	941
70	154	132	113	125	93	108
77	17					
79	16					
80	4					
81	13			26		
83	204	272	194		45	94
84	25					41
91	7					
93	2					
95	18					
97				8		43
98	8					
109	4					
110	47	26	46			

74
69
78
94
6
88
78
187
184
16
2
17
29
0
24
53
5

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 13:23
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V # 803
CALI: EXQ03V # 3

BASE M/Z: 111
RIC: 100480.



Library Search Data: EXQ03V # 986 Base m/z: 57
11/11/93 17:32:00 + 16:26 Cali: EXQ03V # 3 RIC: 190976.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
175 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6843	NONANE, 3-METHYL-
2	6874	OCTANE, 3,6-DIMETHYL-
3	9732	OCTANE, 2,3,7-TRIMETHYL-
4	15641	UNDECANE, 6,6-DIMETHYL-
5	16860	OCTANE, 2-BROMO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	740	994	740
2	C10.H22	142	57	728	985	728
3	C11.H24	156	57	692	972	692
4	C13.H28	184	57	686	962	690
5	C8.H17.BR	192	57	656	960	663

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	5911-04-6
2	___	___	___	___	15869-94-0
3	___	___	___	___	62016-34-6
4	___	___	___	___	17312-76-4
5	___	___	___	___	557-35-7

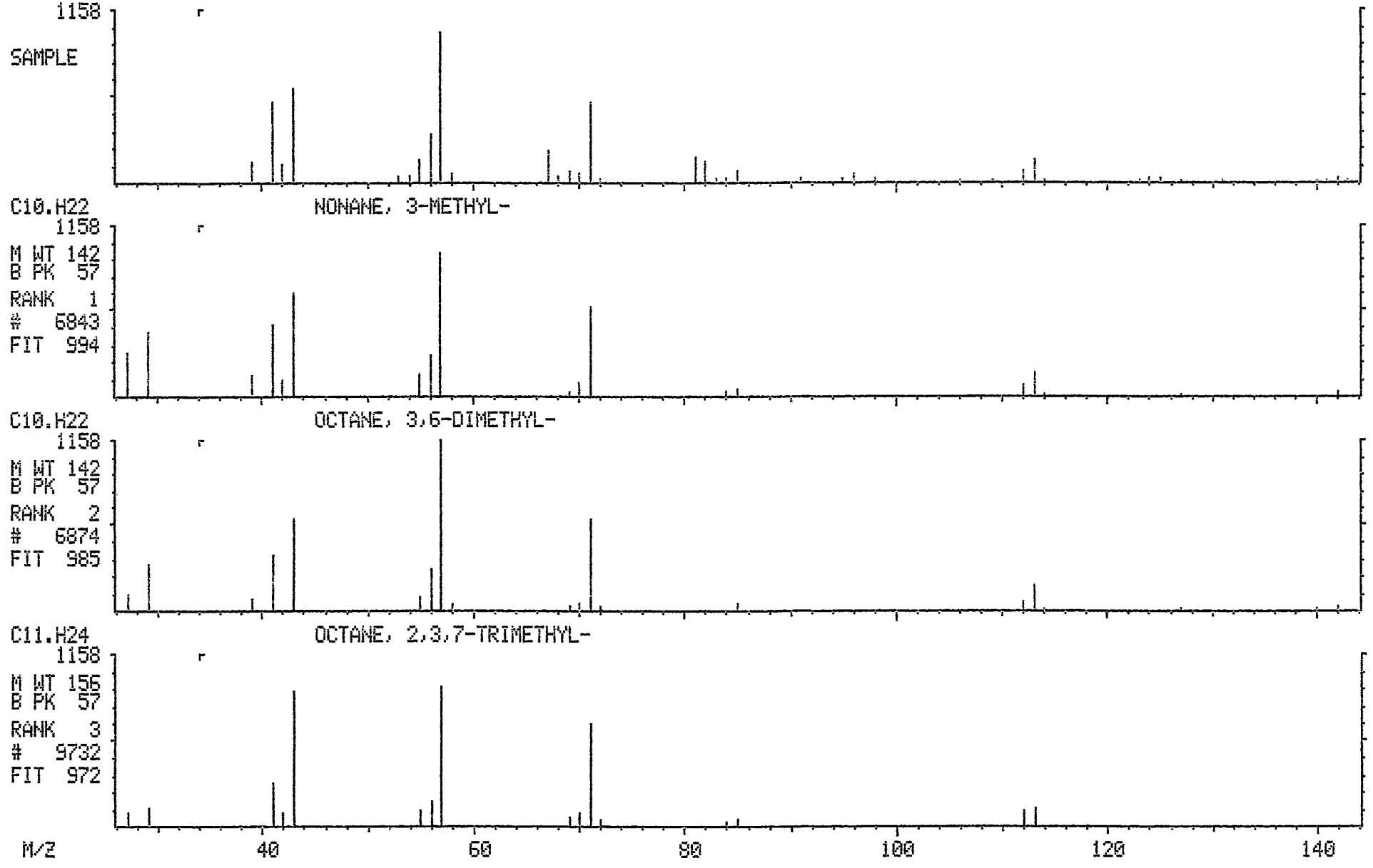
Mass	Inten	1	2	3	4	5
27		289	106	93		94
29		434	312	117	154	125
39	132	145	77			106
41	545	482	375	294	258	387
42	122	110		86		112
43	628	694	612	906	566	566
53	49					
54	38					
55	147	149	95	110	77	196
56	330	283	278	173	175	83
57	999	980	1157	935	1144	863
58	55		51		52	
67	220					
68	45					
69	69	37	29	68	49	67
70	58	93	54	96	31	54
71	540	600	616	695	733	697
72	30		37	38	35	39
81	176					
82	146					
83	27					21
84	34	35		35	24	
85	72	44	47	42	24	
91	24					
95	24					
96	64					
97					8	
98	26					
106	8					
107						7
109	11					

113	153	161	173	116	167	154
114	15	13	14		12	14
123	0					2
124	25					
125	24					
127	4	7	7		1	
131	1					
135						4
137						4
140	6		0			
141	1					
142	33	26	26			
143	3					
168					0	
170					1	

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 16:26
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V # 986
CALI: EXQ03V # 3

BASE M/Z: 57
RIC: 190976.



Library Search Data: EXQ03V # 999 Base m/z: 55
11/11/93 17:32:00 + 16:39 Cali: EXQ03V # 3 RIC: 96128.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
310 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3710	CYCLOPENTANE, 1-METHYL-2-(2-PROPENYL)-, TRANS-
2	22948	CYCLOHEXANEMETHYL DICHLOROACETATE
3	2676	CYCLOHEXANEMETHANOL
4	3694	CYCLOHEXANE, 1-PROPENYL-
5	3702	CYCLOHEXANE, 2-PROPENYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H16	124	55	609	943	619
2	C9.H14.O2.CL2	224	55	489	940	491
3	C7.H14.O	114	55	566	938	584
4	C9.H16	124	55	538	923	567
5	C9.H16	124	55	543	917	571

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	50746-53-7
2	___	___	___	___	86338-70-7
3	___	___	___	___	100-49-2
4	___	___	___	___	5364-83-0
5	___	___	___	___	2114-42-3

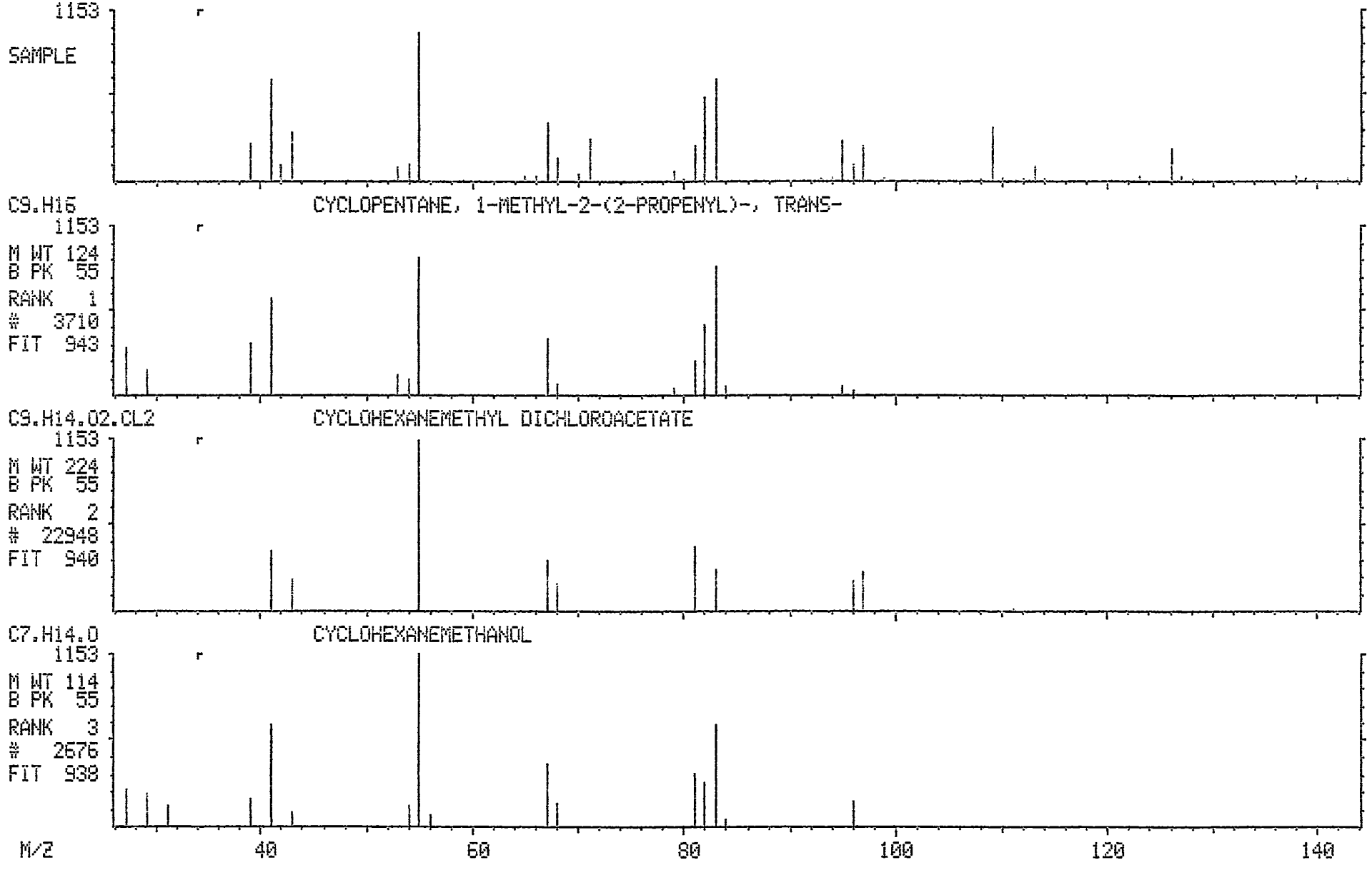
Mass	Inten	1	2	3	4	5
27		321		247	311	210
29		165		219	166	112
31				142		
39	247	357		190	335	299
41	673	656	398	670	655	596
42	103					
43	327		215	87		
53	92	131			112	108
54	108	101		136	116	110
55	999	939	1138	1153	1062	1157
56				76	61	
65	27					
66	26					
67	390	379	339	407	244	212
68	157	73	185	153	55	46
70	42					
71	273					
79	54	42				34
80	19					
81	237	229	434	356	125	112
82	558	481		290	590	561
83	669	875	270	676	920	988
84		56		51	59	67
93	10					
94	10					
95	259	53				
96	113	37	199	169	52	57
97	232		255			
99	23					
108	2					
109	351					

111		10		
112	22			
113	90			
114	8			
123	30			
124			50	68
126	209			
127	24			
128	2			
138	24			
139	0			
143	1			

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 16:39
SAMPLE: EX003
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003V # 999
CALI: EX003V # 3

BASE M/Z: 55
RIC: 96128.



Library Search Data: EXQ03V #1006 Base m/z: 57
11/11/93 17:32:00 + 16:46 Cali: EXQ03V # 3 RIC: 122240.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
262 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6848	HEPTANE, 3-ETHYL-2-METHYL-
2	6852	HEPTANE, 4-(1-METHYLETHYL)-
3	6853	OCTANE, 2,3-DIMETHYL-
4	6847	HEPTANE, 4-PROPYL-
5	6871	HEXANE, 2,2,3,3-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	871	976	871
2	C10.H22	142	57	853	969	854
3	C10.H22	142	57	848	964	850
4	C10.H22	142	57	827	960	837
5	C10.H22	142	57	709	943	721

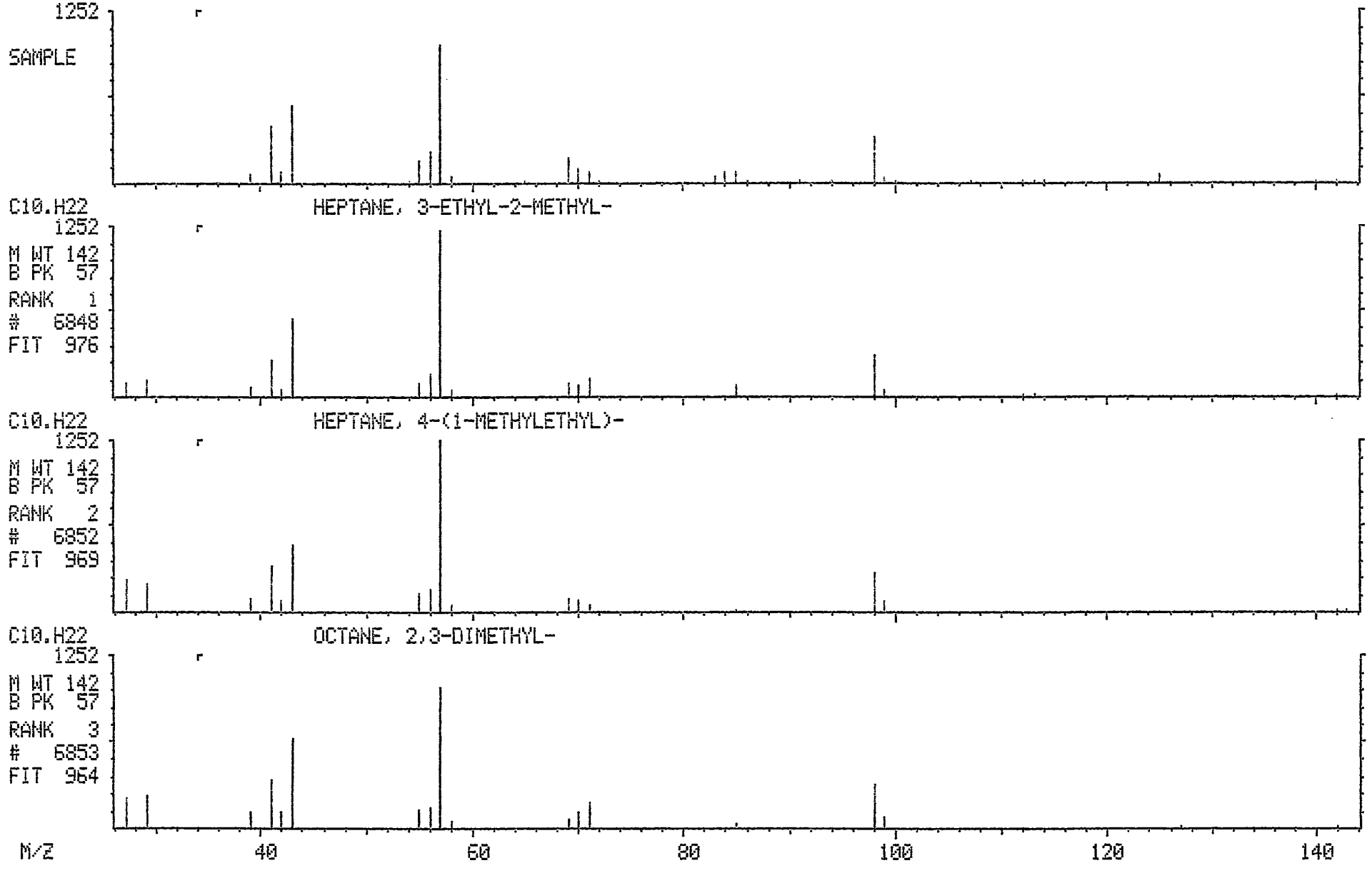
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	14676-29-0
2	___	___	___	___	52896-87-4
3	___	___	___	___	7146-60-3
4	___	___	___	___	3178-29-8
5	___	___	___	___	13475-81-5

Mass	Inten	1	2	3	4	5
27		92	236	221		
29		121	203	227		
39	71	63	104	112	162	179
41	416	270	339	344	432	461
42	82	53	82	110	122	36
43	569	572	491	645	499	769
53					36	37
54	8					
55	173	104	134	132	174	114
56	236	172	166	144	120	158
57	999	1225	1252	1024	1092	868
58	42	50	57	45	67	39
65	3					
69	182	94	97	71	71	72
70	102	84	81	115	80	
71	81	135	48	189	65	104
72	9					
83	56					22
84	86					77
85	84	84	18	27		177
86	5					11
91	4					
94	0					
98	331	303	280	311	281	
99	38	55	79	84	83	33
100	3					
107	1					
112	9	8			11	
113	15	20			6	
114	1					
125	62					

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 16:46
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V #1006
CALI: EXQ03V # 3

BASE M/Z: 57
RIC: 122240.



Library Search Data: EXQ03V #1017 Base m/z: 105
11/11/93 17:32:00 + 16:57 Cali: EXQ03V # 3 RIC: 216320.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
98 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3286	BENZENE, (1-METHYLETHYL)-
2	8413	BENZENE, (1-NITROETHYL)-
3	3288	BENZENE, 1-ETHYL-2-METHYL-
4	3293	BENZENE, 1-ETHYL-4-METHYL-
5	3292	BENZENE, 1-ETHYL-3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	105	901	996	901
2	C8.H9.O2.N	151	105	735	990	735
3	C9.H12	120	105	883	975	883
4	C9.H12	120	105	883	974	883
5	C9.H12	120	105	857	963	857

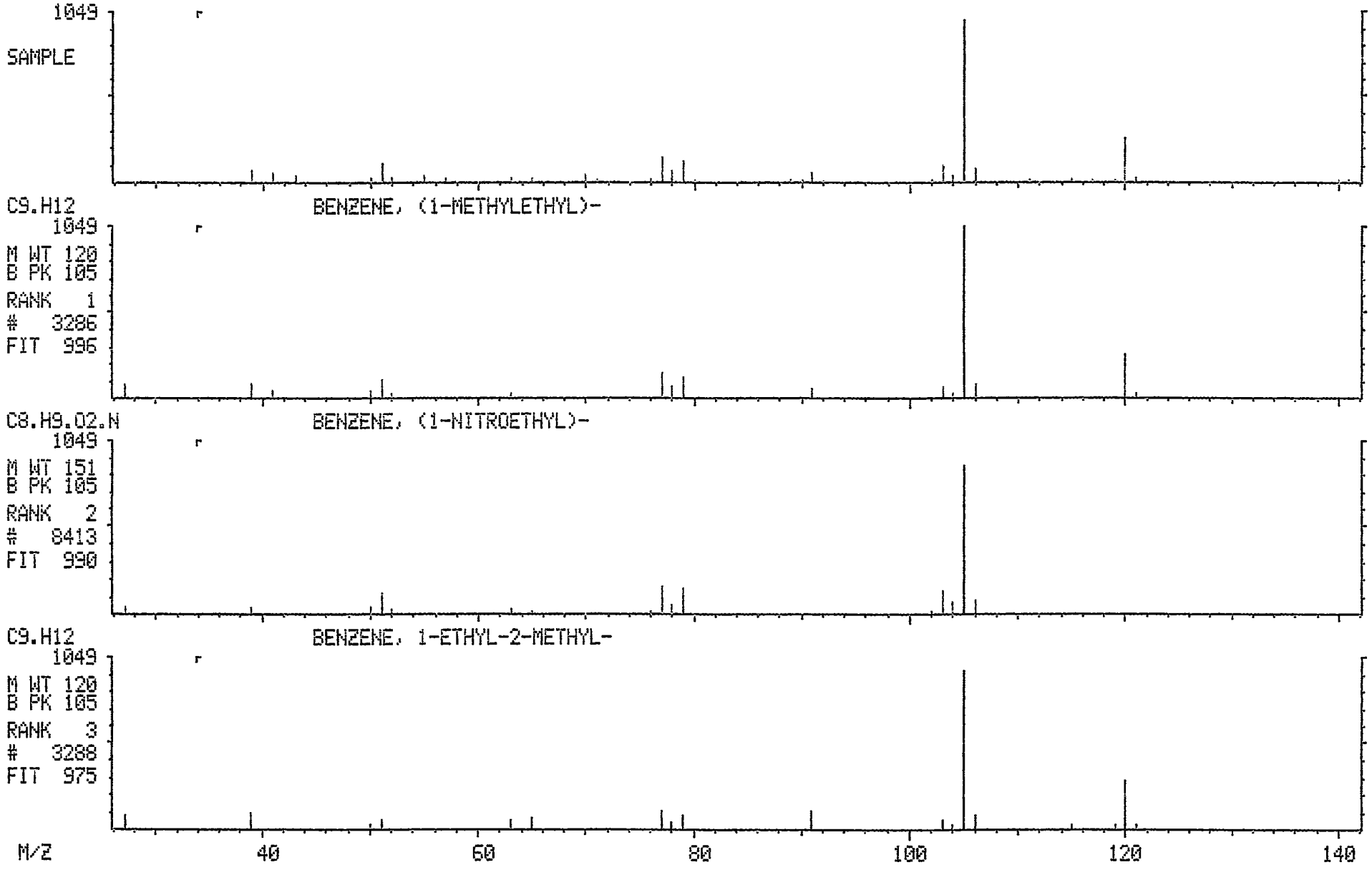
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	98-82-8
2	___	___	___	___	7214-61-1
3	___	___	___	___	611-14-3
4	___	___	___	___	622-96-8
5	___	___	___	___	620-14-4

Mass	Inten	1	2	3	4	5
27		81	41	77	75	74
39	70	81	45	102	98	102
41	55	38				
43	40					
50	30	41	45	25	26	25
51	115	112	119	62	60	59
52	33	32	20			
55	39					
57	22					
63	27	31	24	52	55	55
65	29		12	72	73	73
70	41					
71	15					
76	15		12			
77	147	155	169	106	109	106
78	74	67	53	39	42	42
79	124	121	146	78	70	66
80	7					
89	11					
90	2					
91	52	55		110	97	110
92	7					42
102	16		15			
103	99	64	142	48	46	46
104	41	23	67	23	24	
105	999	1048	898	960	972	950
106	85	89	89	82	83	81
111	15					
115	12			22	19	20
117	5					
119	8			21	29	37

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 16:57
SAMPLE: EX003
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003V #1017
CALI: EX003V # 3

BASE M/Z: 105
RIC: 216320.



Library Search Data: EXQ03V #1031 Base m/z: 57
11/11/93 17:32:00 + 17:11 Cali: EXQ03V # 3 RIC: 132096.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
108 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6853	OCTANE, 2,3-DIMETHYL-
2	6846	OCTANE, 2,7-DIMETHYL-
3	15610	DECANE, 2,6,7-TRIMETHYL-
4	6862	HEPTANE, 2,3,6-TRIMETHYL-
5	4452	HEXANE, 4-ETHYL-2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	829	975	832
2	C10.H22	142	43	736	970	742
3	C13.H28	184	57	812	966	819
4	C10.H22	142	57	812	955	812
5	C9.H20	128	57	797	954	803

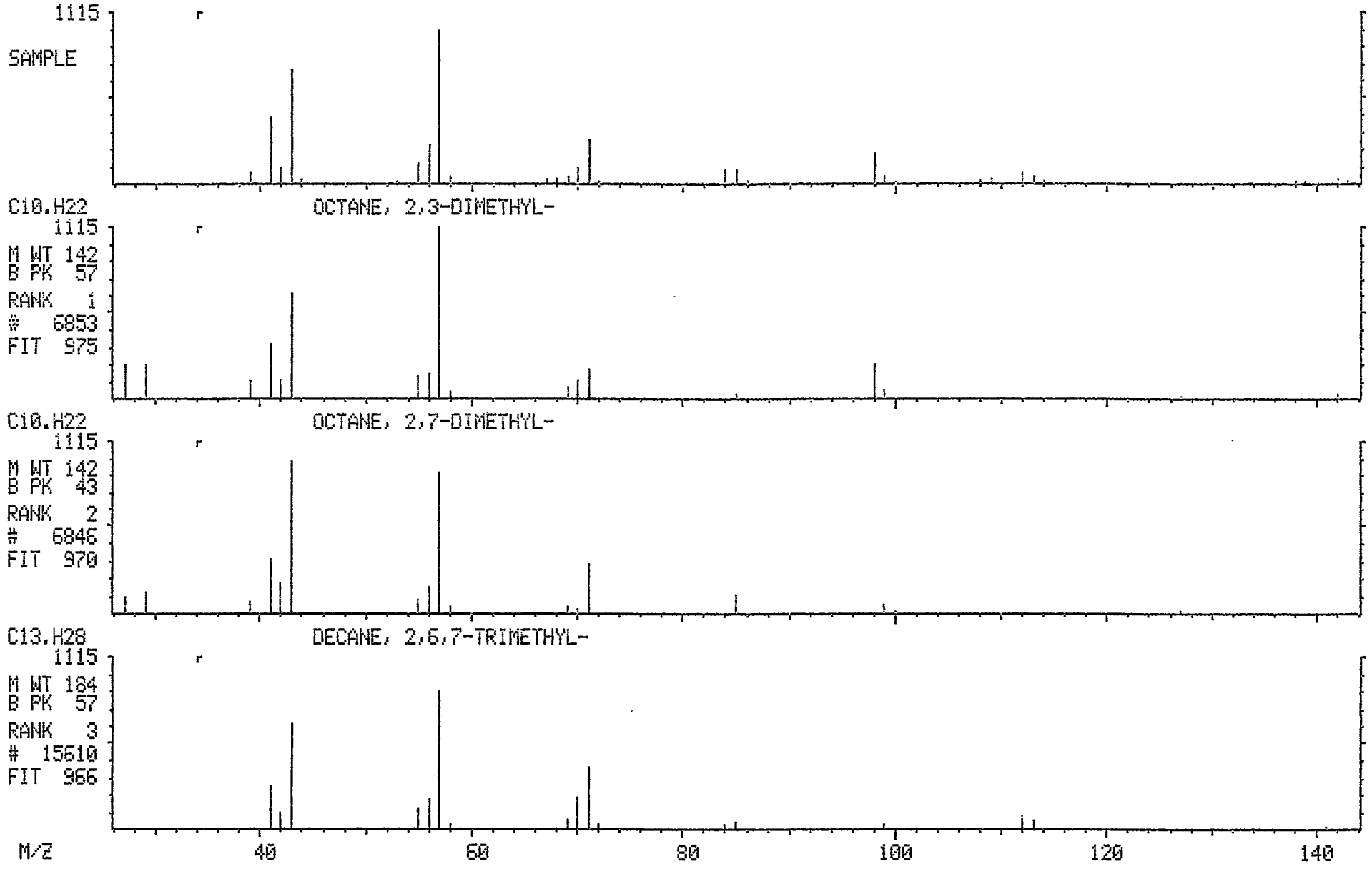
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	7146-60-3
2	___	___	___	___	1072-16-8
3	___	___	___	___	62108-25-2
4	___	___	___	___	4032-93-3
5	___	___	___	___	3074-75-7

Mass	Inten	1	2	3	4	5
27		222	104		100	290
29		228	126		123	283
39	72	118	80		63	144
41	434	364	336	277	260	370
42	99	116	200	101	48	71
43	741	683	982	681	687	794
44	26					
53	13					
55	134	144	84	135	89	148
56	251	157	166	186	193	119
57	999	1115	912	887	1288	1077
58	42	49	38	36	42	47
67	23					
68	27					
69	39	74	45	56	47	57
70	96	120	33	201	140	151
71	276	198	315	396	154	167
72	14			26		
84	82			33		
85	93	24	112	51	36	48
86	4					
98	190	219			131	98
99	49	59	65	33	115	136
100	3		5			
108	1					
109	33					
112	81			82		
113	49			62		
114	4					
127		5	11			
128						9

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 17:11
SAMPLE: EX003
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003V #1031
CALI: EX003V # 3

BASE M/Z: 57
RIC: 132096.



Library Search Data: EXQ03V #1045 Base m/z: 57
11/11/93 17:32:00 + 17:25 Cali: EXQ03V # 3 RIC: 170240.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
297 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6846	OCTANE, 2,7-DIMETHYL-
2	6859	NONANE, 2-METHYL-
3	23451	(E)-2-(6-NONENOXY)-TETRAHYDROPYRAN
4	25308	2H-PYRAN, 2-(9-DECYNYLOXY)TETRAHYDRO-
5	23453	(Z)-2-(6-NONENOXY)-TETRAHYDROPYRAN

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	43	683	966	691
2	C10.H22	142	43	731	962	750
3	C14.H26.O2	226	55	270	958	270
4	C15.H26.O2	238	41	298	955	298
5	C14.H26.O2	226	41	267	947	267

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	1072-16-8
2	___	___	___	___	871-83-0
3	___	___	___	___	55305-36-7
4	___	___	___	___	19754-58-6
5	___	___	___	___	87298-22-4

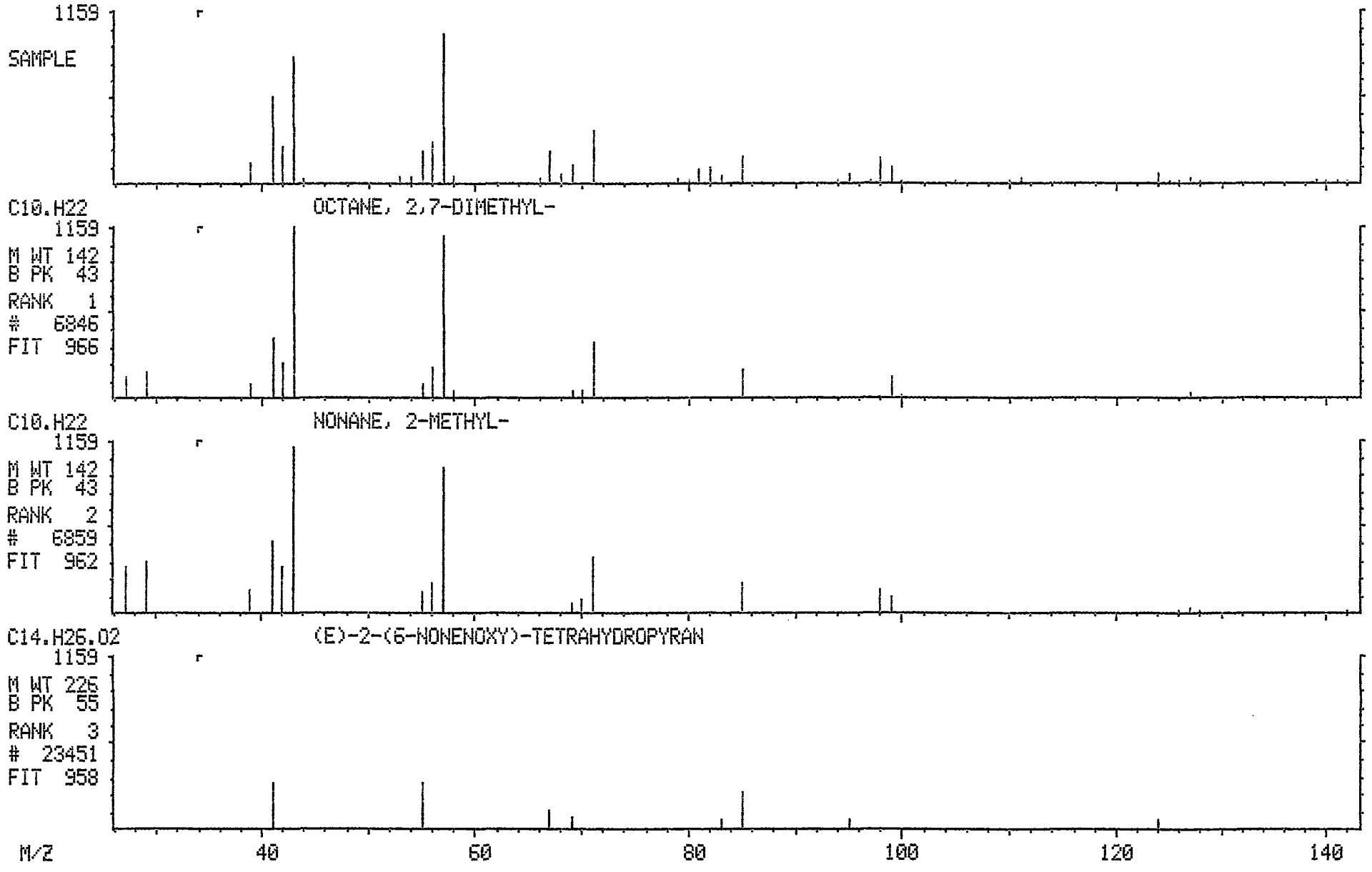
Mass	Inten	1	2	3	4	5
27		134	306			
29		163	338			
39	138	95	153		141	
41	583	396	477	311	405	320
42	243	235	312			
43	844	1158	1114			
44	24					
53	46					
54	46					
55	217	100	140	312	373	303
56	282	198	194		162	
57	999	1089	974			
58	42	46				
66	29					
67	210			122	122	108
68	56					
69	125	53	62	84		73
70		40	88			
71	351	373	375			
79	23					
80	8					
81	95				100	
82	109					
83	46			55		46
85	179	178	206	254	263	286
94	8					
95	65			55	45	42
97	19					
98	173		154			
99	112	137	112			
100	10	12				

110	11					
111	25					
124	55			55		55
125	13					
126	11		8			
127	27	27	33			
128	2		3			
139	1					
140	12					
141	5					
142	14		8			
238					0	

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 17:25
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V #1045
CALI: EXQ03V # 3

BASE M/Z: 57
RIC: 170240.



Library Search Data: EXQ03V #1061 Base m/z: 57
11/11/93 17:32:00 + 17:41 Cali: EXQ03V # 3 RIC: 245248.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
176 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	12317	CYCLOPROPANE, 1-(2-METHYLBUTYL)-1-(1-METHYLPROPYL)-
2	7234	1-PENTANOL, 4-METHYL-2-PROPYL-
3	10123	1-OCTANOL, DIMETHYL-
4	6458	CYCLOOCTANE, 1,4-DIMETHYL-, CIS-
5	4737	ISOOCTANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H24	168	57	774	954	775
2	C9.H20.O	144	57	735	953	735
3	C10.H22.O	158	55	745	949	745
4	C10.H20	140	55	765	944	765
5	C8.H18.O	130	55	653	942	653

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	64723-36-0
2	___	___	___	___	54004-41-0
3	___	___	___	___	1333-49-9
4	___	___	___	___	13151-99-0
5	___	___	___	___	26952-21-6

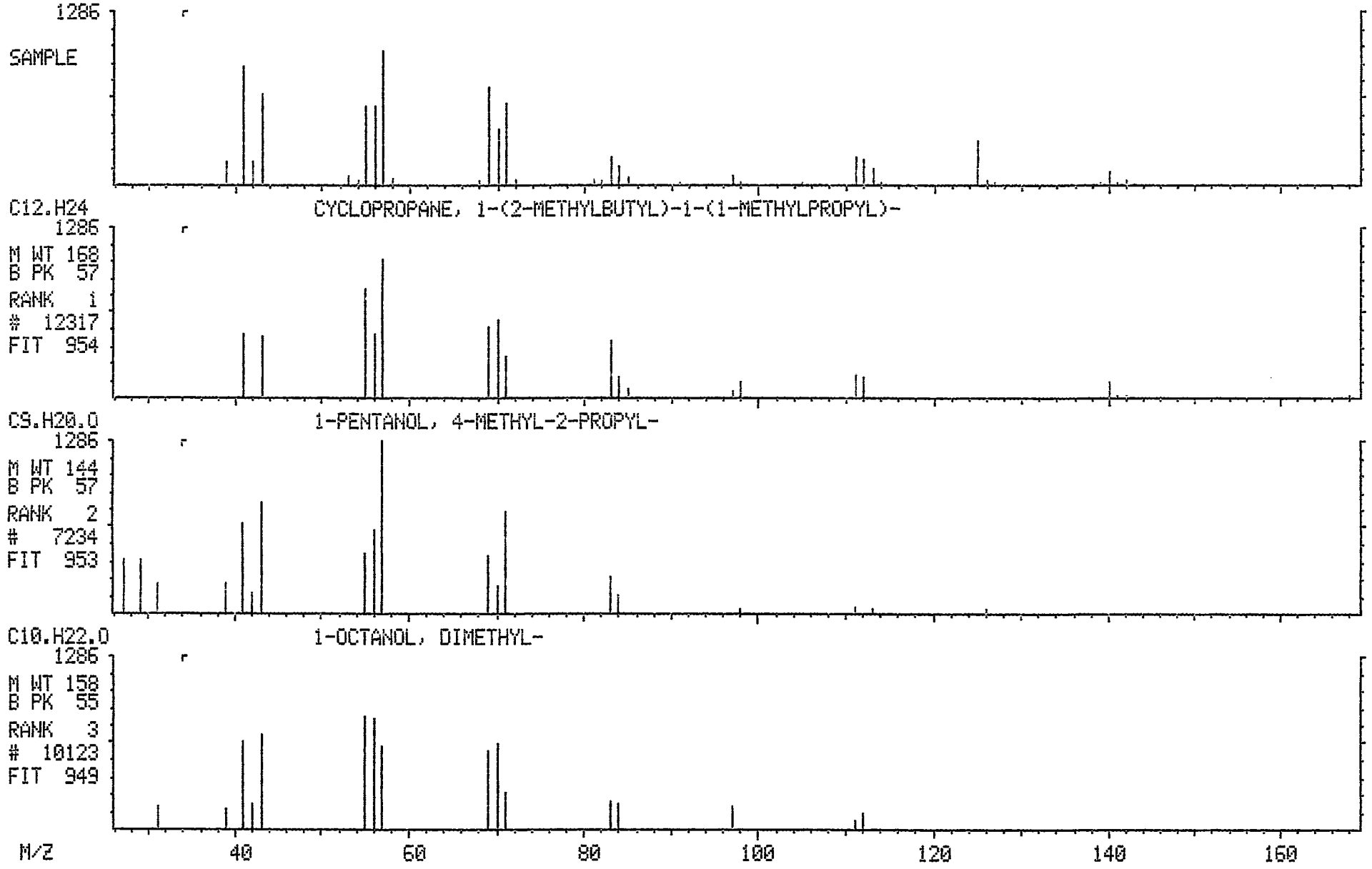
Mass	Inten	1	2	3	4	5
27			392			213
29			396		303	311
31			218	174		194
39	178		218	162	224	
41	882	482	677	648	771	714
42	164		146	186	234	212
43	666	459	821	710	396	804
53	74					
54	37					
55	591	817	443	837	1023	813
56	588	480	616	815	701	636
57	999	1050	1285	617	314	729
58	42					
68	41					
69	717	523	429	588	599	596
70	405	586	201	627	444	340
71	593	311	750	268		100
72	35					
81	26					
82	41					
83	199	421	281	201	301	217
84	133	158	133	180	114	284
85	53	65				59
91	5					
97	62	59		174	126	41
98	19	114	28			
105	2					
111	204	171	46	63	169	
112	192	150		128	170	
113	122		31			
114	8					

126	40		40	
127	6			
139	4			
140	103	119		35
141	13	12		
142	31	12		
168		2		

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 17:41
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V #1061
CALI: EXQ03V # 3

BASE M/Z: 57
RIC: 245248.



Library Search Data: EXQ03V #1079 Base m/z: 91
11/11/93 17:32:00 + 17:59 Cali: EXQ03V # 3 RIC: 336896.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
67 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3303	BENZENE, PROPYL-
2	8480	ETHANOL, 2-[(PHENYLMETHYL)AMINO]-
3	3280	BENZENEACETALDEHYDE
4	3323	BENZENE, 1-METHYL-4-NITROSO-
5	27726	2,3,5-TRIOXABICYCLO[2.1.0]PENTANE, 1,4-BIS(PHENYLMETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	91	904	987	904
2	C9.H13.O.N	151	91	869	965	892
3	C8.H8.O	120	91	837	944	855
4	C7.H7.O.N	121	91	679	942	684
5	C16.H14.O3	254	91	816	932	867

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	103-65-1
2	___	___	___	___	104-63-2
3	___	___	___	___	122-78-1
4	___	___	___	___	623-11-0
5	___	___	___	___	56247-48-4

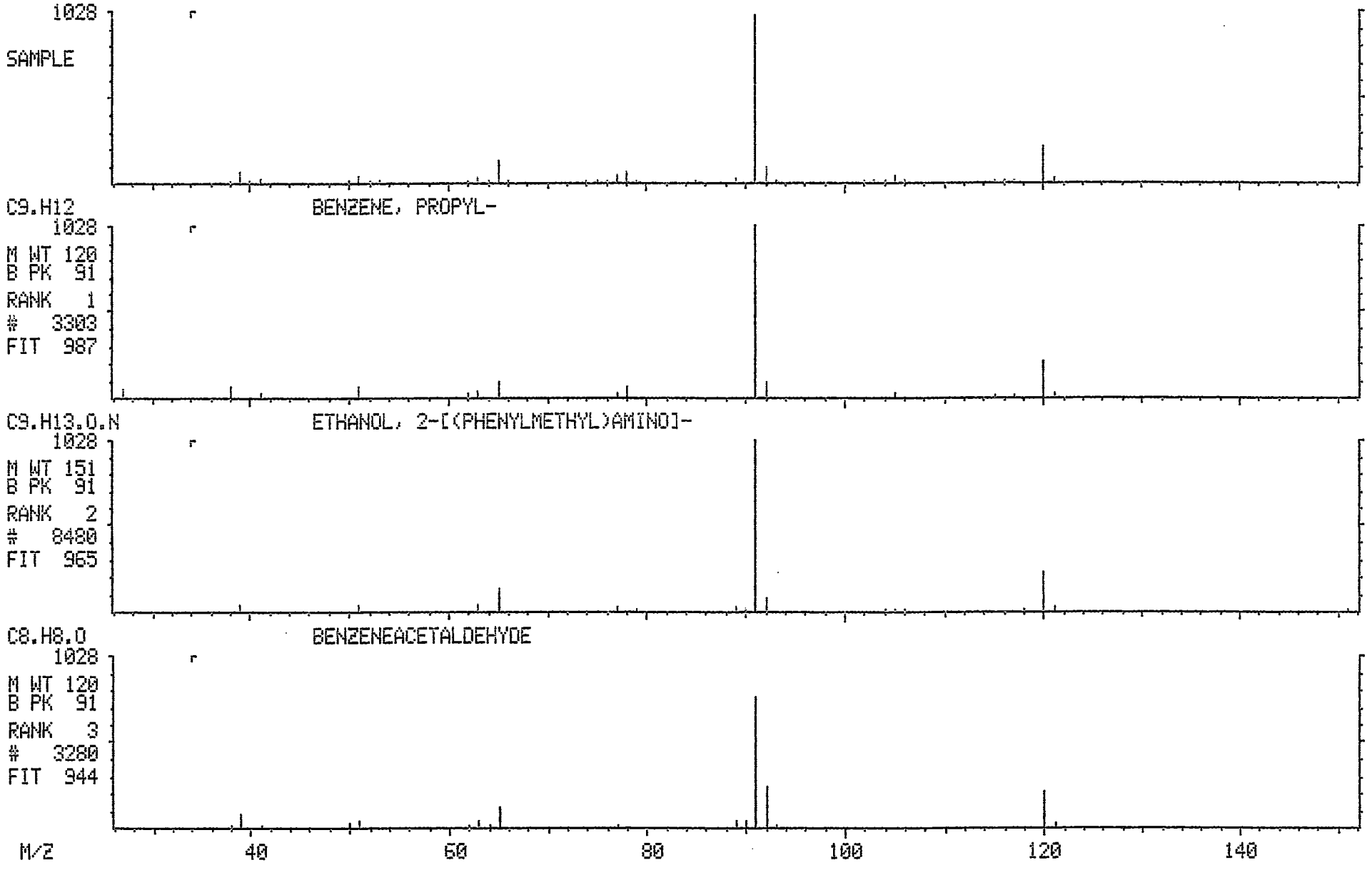
Mass	Inten	1	2	3	4	5
27		49				
28						91
29						91
38	5	71		11		
39	67		43	80	54	72
40	5					
41	26	29		20		
44						25
46						23
50	18			23	20	
51	47	61	37	43	24	38
52	13				11	
53	5					
62	6	21		18	12	19
63	31	42	37	42	34	41
64	9			11	12	
65	134	94	135	127	143	139
66	8				28	
74	3				29	
75	4					
76	6					
77	35	29	34	13		45
78	70	61				
79	15		14			
85	5					
89	25		32	43	64	69
90			14	36		42
91	999	1024	1028	779	829	908
92	102	101	83	249	82	107
93	4			15		
102	4					

104	6		9			
105	35	29	10			31
106	3		14		29	
115	15	10				
116	2					
117	7	10				
118			15			
119						28
120	218	222	232	216		214
121	21	20	22	23	69	
122					6	
151			6			

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 17:59
SAMPLE: EXQ03
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03V #1079
CALI: EXQ03V # 3

BASE M/Z: 91
RIC: 336896.



Library Search Data: EXQ03V #1094 Base m/z: 105
11/11/93 17:32:00 + 18:14 Cali: EXQ03V # 3 RIC: 1701890.
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
125 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3296	2,3-HEPTADIEN-5-YNE, 2,4-DIMETHYL-
2	3295	BENZENE, 1,2,3-TRIMETHYL-
3	3297	BENZENE, 1,2,4-TRIMETHYL-
4	3294	BENZENE, 1,3,5-TRIMETHYL-
5	3305	CYCLOHEXANE, 1,2,4-TRIS(METHYLENE)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	105	837	984	837
2	C9.H12	120	105	850	974	850
3	C9.H12	120	105	849	964	849
4	C9.H12	120	105	842	959	842
5	C9.H12	120	105	802	958	802

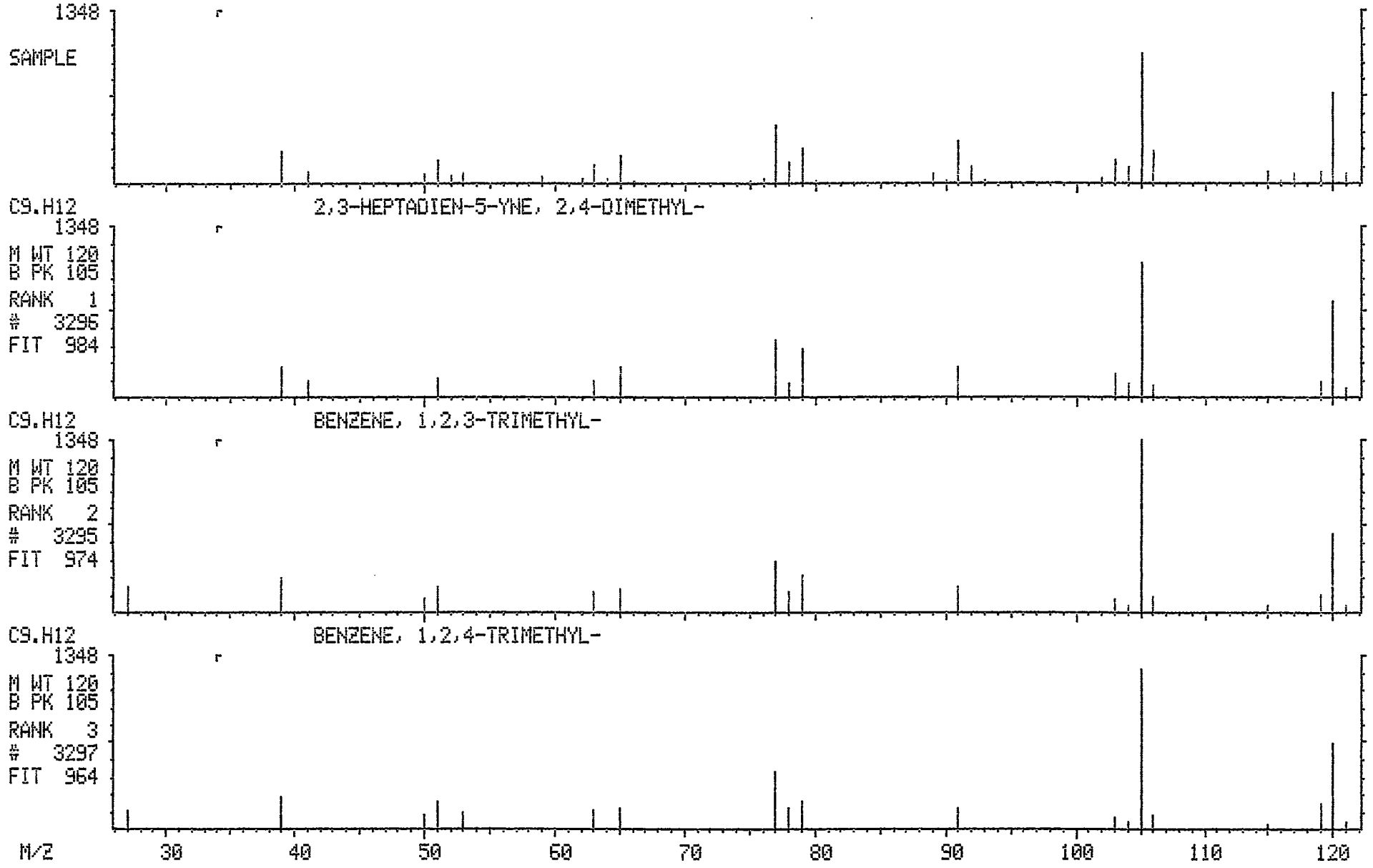
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	41898-89-9
2	___	___	___	___	526-73-8
3	___	___	___	___	95-63-6
4	___	___	___	___	108-67-8
5	___	___	___	___	14296-81-2

Mass	Inten	1	2	3	4	5
27			200	134		135
39	253	240	270	257	224	232
41	82	127			129	148
50	70		100	99		
51	174	150	202	212	191	155
52	60					
53	69			116	119	125
59	57					
62	36					
63	137	126	168	143		
64	33					
65	224	235	174	164	166	116
66	21					
75	23					
76	34					
77	443	457	399	450	469	242
78	169	104	159	168	160	106
79	261	384	283	219	226	328
80	18					
89	69					
90	24					
91	322	240	204	159	134	570
92	120					235
93	20					
102	43					
103	180	183	113	83	74	119
104	120	100	51	55	39	
105	999	1052	1347	1240	1218	826
106	246	95	124	109	107	84
115	90		45	38	41	
116	19					

MID LIBRARY SEARCH (LIBRARYNB)
11/11/93 17:32:00 + 18:14
SAMPLE: EX003
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003V #1094
CALI: EX003V # 3

BASE M/Z: 105
RIC: 1701890.



Quantitation Report File: TEMP1

Data: EXQ03V.TI
11/11/93 17:32:00
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	UNKNOWN
3	UNKNOWN
4	UNKNOWN
5	UNKNOWN
6	UNKNOWN
7	UNKNOWN
8	UNKNOWN
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46	UNKNOWN
47	UNKNOWN

No	Name
48	UNKNOWN
49	UNKNOWN
50	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	~~112~~	1:52	55	0.097	A BB	99547. *	2.605	0.36
2	RIC	~~192~~	3:12	55	0.166	A BB	5996. *	0.157	0.02
3	RIC	~~207~~	3:27	55	0.179	A BB	2691. *	0.070	0.01
4	RIC	~~262~~	4:22	55	0.226	A BV	3478. *	0.091	0.01
5	RIC	~~270~~	4:30	55	0.233	A VB	6847. *	0.179	0.02
6	RIC IS	402	6:42	55	0.347	A BB	47488. *	1.243	0.17
7	RIC	~~450~~	7:30	55	0.389	A BV	3360. *	0.088	0.01
8	RIC	~~459~~	7:39	55	0.396	A VB	31305. *	0.819	0.11
9	RIC	~~472~~	7:52	55	0.408	A BV	2488. *	0.065	0.01
10	RIC	~~484~~	8:04	55	0.418	A VB	10422. *	0.273	0.04
11	RIC	~~496~~	8:16	55	0.428	A BB	14172. *	0.371	0.05
12	RIC IS	506	8:26	55	0.437	A VB	55930. *	1.464	0.20
13	RIC	~~531~~	8:51	55	0.459	A BV	6829. *	0.179	0.02
14	RIC	~~556~~	9:16	55	0.480	A BB	83396. *	2.182	0.30
15	RIC	~~587~~	9:47	55	0.507	A BB	32902. *	0.861	0.12
16	RIC	~~604~~	10:04	55	0.522	A BB	52004. *	1.361	0.19
17	RIC	~~632~~	10:32	55	0.546	A BB	52869. *	1.383	0.19
18	RIC	~~650~~	10:50	55	0.561	A BB	32437. *	0.849	0.12
19	RIC	~~662~~	11:02	55	0.572	A BB	5360. *	0.140	0.02
20	RIC	674	11:14	55	0.582	A BB	102016. *	2.669	0.37
21	RIC	~~686~~	11:26	55	0.592	A BB	65472. *	1.713	0.24
22	RIC	~~694~~	11:34	55	0.599	A VV	26649. *	0.697	0.10
23	RIC	~~705~~	11:45	55	0.609	A VB	65332. *	1.710	0.23
24	RIC	~~716~~	11:58	55	0.620	A BB	93366. *	2.443	0.34
25	RIC	~~733~~	12:13	55	0.633	A BV	28230. *	0.739	0.10
26	RIC	~~744~~	12:24	55	0.642	A VV	12827. *	0.336	0.05
27	RIC	~~755~~	12:35	55	0.652	A BB	19328. *	0.506	0.07
28	RIC	~~767~~	12:47	55	0.662	A BB	40341. *	1.056	0.14
29	RIC	~~787~~	13:07	55	0.680	A BV	27072. *	0.708	0.10
30	RIC	~~795~~	13:15	55	0.687	A VV	56256. *	1.472	0.20
31	RIC	803	13:23	55	0.693	A VB	124800. *	3.266	0.45
32	RIC	~~822~~	13:42	55	0.710	A BB	5965. *	0.156	0.02
33	RIC	~~836~~	13:56	55	0.722	A BV	68480. *	1.792	0.25
34	RIC	842	14:02	55	0.727	A VB	104320. *	2.730	0.37
35	RIC	~~859~~	14:19	55	0.742	A BV	91617. *	2.397	0.33
36	RIC IS	867	14:27	55	0.749	A VB	51071. *	1.336	0.18
37	RIC	~~879~~	14:39	55	0.759	A BB	15392. *	0.403	0.06
38	RIC	~~889~~	14:49	55	0.768	A BB	1095680. *	28.671	3.94
39	RIC	~~907~~	15:07	55	0.783	A BB	3469310. *	90.782	12.47
40	RIC	~~932~~	15:32	55	0.805	A BB	41152. *	1.077	0.15
41	RIC	~~953~~	15:53	55	0.823	A BV	97152. *	2.542	0.35
42	RIC	~~963~~	16:03	55	0.832	A VB	2940930. *	76.956	10.57
43	RIC	986	16:26	55	0.851	A BB	210069. *	5.497	0.75
44	RIC	999	16:39	55	0.863	A VV	161536. *	4.227	0.58
45	RIC	1006	16:46	55	0.869	A VB	137068. *	3.587	0.49
46	RIC	1017	16:57	55	0.878	A BB	200889. *	5.257	0.72
47	RIC	1031	17:11	55	0.890	A BV	160512. *	4.200	0.58
48	RIC	~~1039~~	17:19	55	0.897	A VV	155648. *	4.073	0.56
49	RIC	1045	17:25	55	0.902	A VB	207616. *	5.433	0.75
50	RIC	1061	17:41	55	0.916	A BB	291234. *	7.621	1.05

Quantitation Report File: TEMP1

Data: EXQ03V.TI
11/11/93 17:32:00
Sample: EXQ03
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	UNKNOWN
52	UNKNOWN
53	UNKNOWN
54	UNKNOWN
55	UNKNOWN
56	UNKNOWN
57	UNKNOWN
58	UNKNOWN
59	UNKNOWN
60	UNKNOWN
61	UNKNOWN
62	UNKNOWN
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69	UNKNOWN
70	UNKNOWN
71	UNKNOWN
72	UNKNOWN
73	UNKNOWN
74	UNKNOWN
75	UNKNOWN
76	UNKNOWN
77	UNKNOWN
78	UNKNOWN
79	UNKNOWN
80	UNKNOWN
81	UNKNOWN
82	UNKNOWN

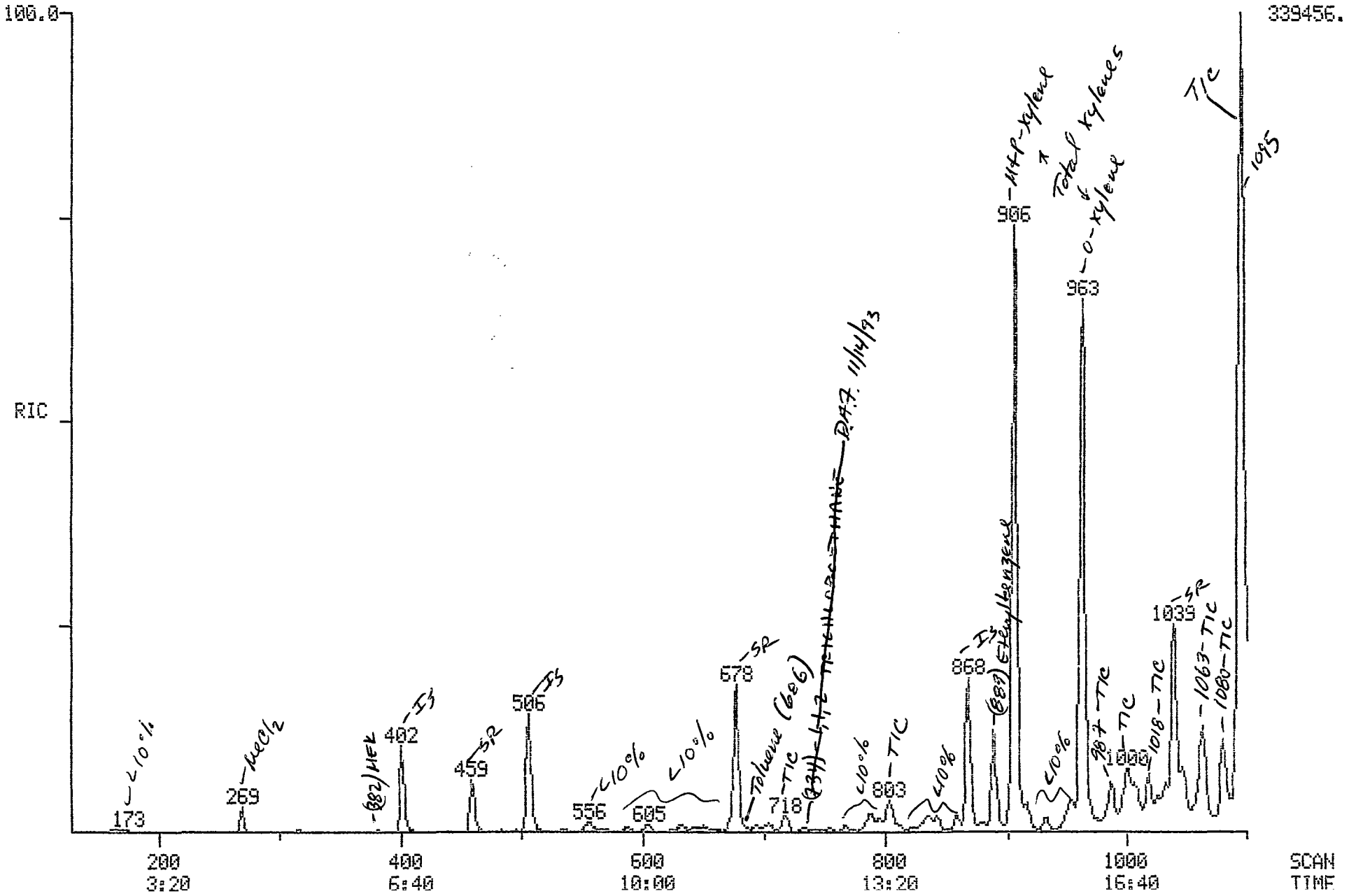
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	RIC	1079	17:59	55	0.932	A BB	318976. *	8.347	1.15
52	RIC	1094	18:14	55	0.945	A BB	2009090. *	52.572	7.22
53	RIC	1107	18:27	55	0.956	A VB	1718270. *	44.962	6.18
54	RIC	1134	18:54	55	0.979	A BB	1581980. *	41.396	5.69
55	RIC	1158	19:18	55	1.000	A BB	3821570. *	100.000	13.73
56	RIC	1175	19:35	55	1.015	A BV	79570. *	2.082	0.29
57	RIC	1179	19:39	55	1.018	A VB	78126. *	2.044	0.28
58	RIC	1175	19:35	55	1.015	A BV	81674. *	2.137	0.29
59	RIC	1179	19:39	55	1.018	A VV	81861. *	2.142	0.29
60	RIC	1193	19:53	55	1.030	A BV	143872. *	3.765	0.52
61	RIC	1199	19:59	55	1.035	A VB	47360. *	1.239	0.17

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	RIC	1210	20:10	55	1.045	A BB	2051830. *	53.691	7.37
63	RIC	1228	20:28	55	1.060	A BV	1136640. *	29.743	4.08
64	RIC	1238	20:38	55	1.069	A VV	307712. *	8.052	1.11
65	RIC	1246	20:46	55	1.076	A BB	570368. *	14.925	2.05
66	RIC	1257	20:57	55	1.085	A BV	67998. *	1.779	0.24
67	RIC	1264	21:04	55	1.092	A VB	269203. *	7.044	0.97
68	RIC	1278	21:18	55	1.104	A BV	369152. *	9.660	1.33
69	RIC	1286	21:26	55	1.111	A VB	529408. *	13.853	1.90
70	RIC	1298	21:38	55	1.121	A BB	125056. *	3.272	0.45
71	RIC	1312	21:52	55	1.133	A BV	51545. *	1.349	0.19
72	RIC	1318	21:58	55	1.138	A VB	156765. *	4.102	0.56
73	RIC	1328	22:08	55	1.147	A BV	344664. *	9.019	1.24
74	RIC	1333	22:13	55	1.151	A VB	519636. *	13.597	1.87
75	RIC	1347	22:27	55	1.163	A BV	50091. *	1.311	0.18
76	RIC	1359	22:39	55	1.174	A VB	121088. *	3.169	0.44
77	RIC	1366	22:46	55	1.180	A BV	28096. *	0.735	0.10
78	RIC	1374	22:54	55	1.187	A VV	346112. *	9.057	1.24
79	RIC	1386	23:06	55	1.197	A VV	24608. *	0.644	0.09
80	RIC	1390	23:10	55	1.200	A VB	30048. *	0.786	0.11
81	RIC	1386	23:06	55	1.197	A BV	19744. *	0.517	0.07
82	RIC	1390	23:10	55	1.200	A VB	27136. *	0.710	0.10

RIC
11/13/93 20:47:00
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX003VR #1
CALI: EX003VR #3

SCANS 125 TO 1100



Quantitation Report File: EXQ03VR

Data: EXQ03VR.TI
11/13/93 20:47:00
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X625

4g/10mls X 20µl/5000µl

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C110 2-BUTANONE
~~9~~	~~C160 1,1,2-TRICHLOROETHANE~~ ~~DAT~~ 12/7/93
10	C230 TOLUENE
11	C240 ETHYLBENZENE
12	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	21621.	50.000	NG/ML	7.55
2	114	506	8:26	2	1.000	A BB	100397.	50.000	NG/ML	7.55
3	117	868	14:28	3	1.000	A BB	98302.	50.000	NG/ML	7.55
4	65	459	7:39	1	1.142	A BB	33560.	53.630	NG/ML	8.10
5	98	678	11:18	3	0.781	A BB	99958.	48.281	NG/ML	7.29
6	95	1039	17:19	3	1.197	A BB	80972.	53.934	NG/UL	8.14
7	84	269	4:29	1	0.669	A BB	7554.	12.676	NG/ML	1.91
8	43	382	6:22	1	0.950	A BB	1786.	9.110	NG/ML	1.38
~~9~~	~~97~~	~~734~~	~~12:14~~	~~2~~	~~1.451~~	~~A BB~~	~~2487.~~	~~4.157~~	~~NG/ML~~	~~0.63~~ DAT 12/7/93
10	91	686	11:26	3	0.790	A BB	3458.	1.466	NG/ML	0.22
11	106	889	14:49	3	1.024	A BB	26133.	26.438	NG/ML	3.99
12	106	906	15:06	3	1.044	M XX	378026.	302.811	NG/ML	45.71

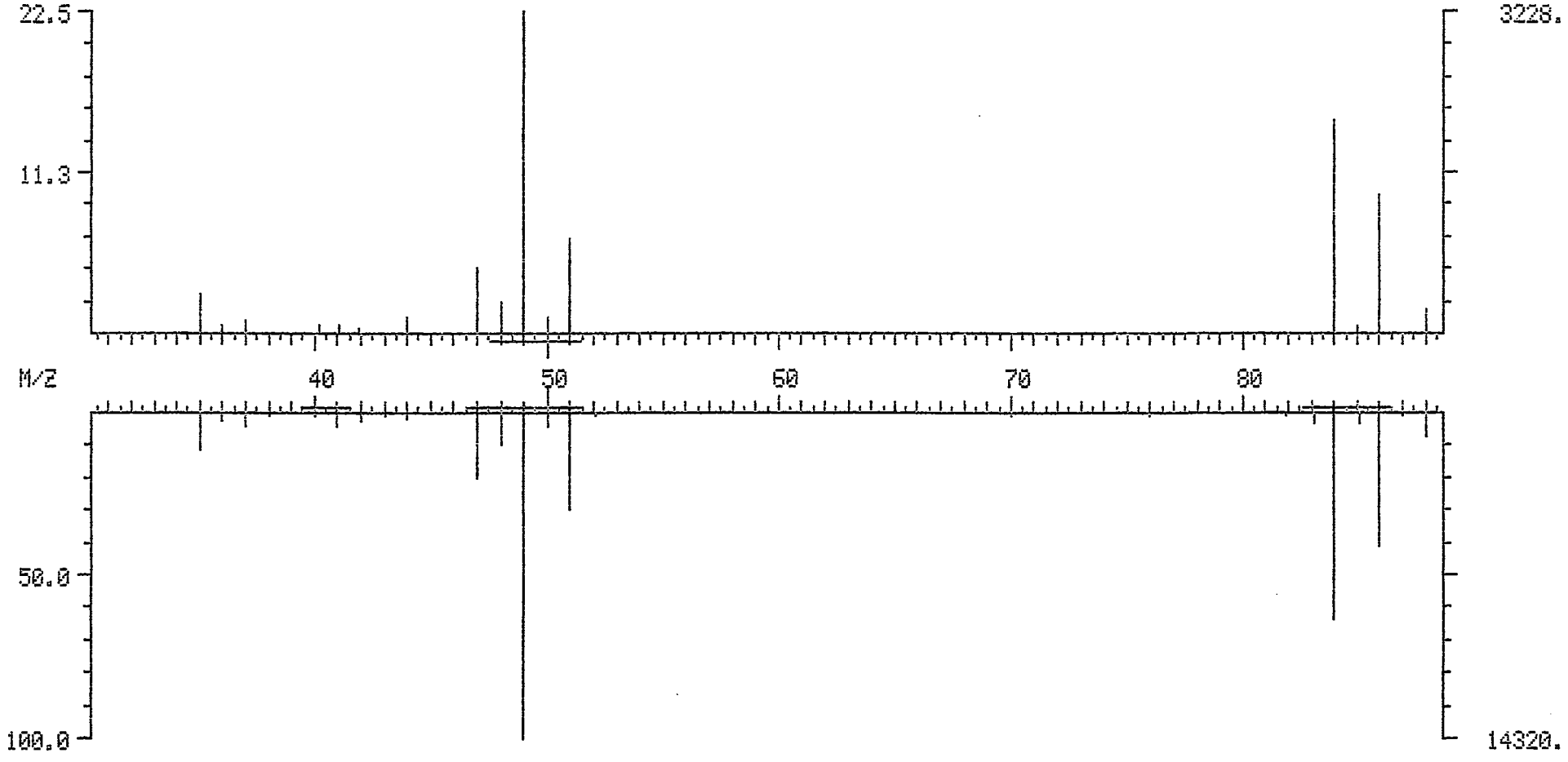
DAT 11/14/93

Scan	Ht.	I.S. Ht.
718	6,616	60,416
803	9,216	
987	14,000	
1000	15,968	
1018	13,616	
1063	36,096	
1080	28,416	
1095	315,904	

DUAL MASS SPECTRUM
11/13/93 20:47:00 + 4:29
SECOND SPECTRUM
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ03VR #269
CALI: EXQ03VR #3
DATA: 50VZ1113Z #270

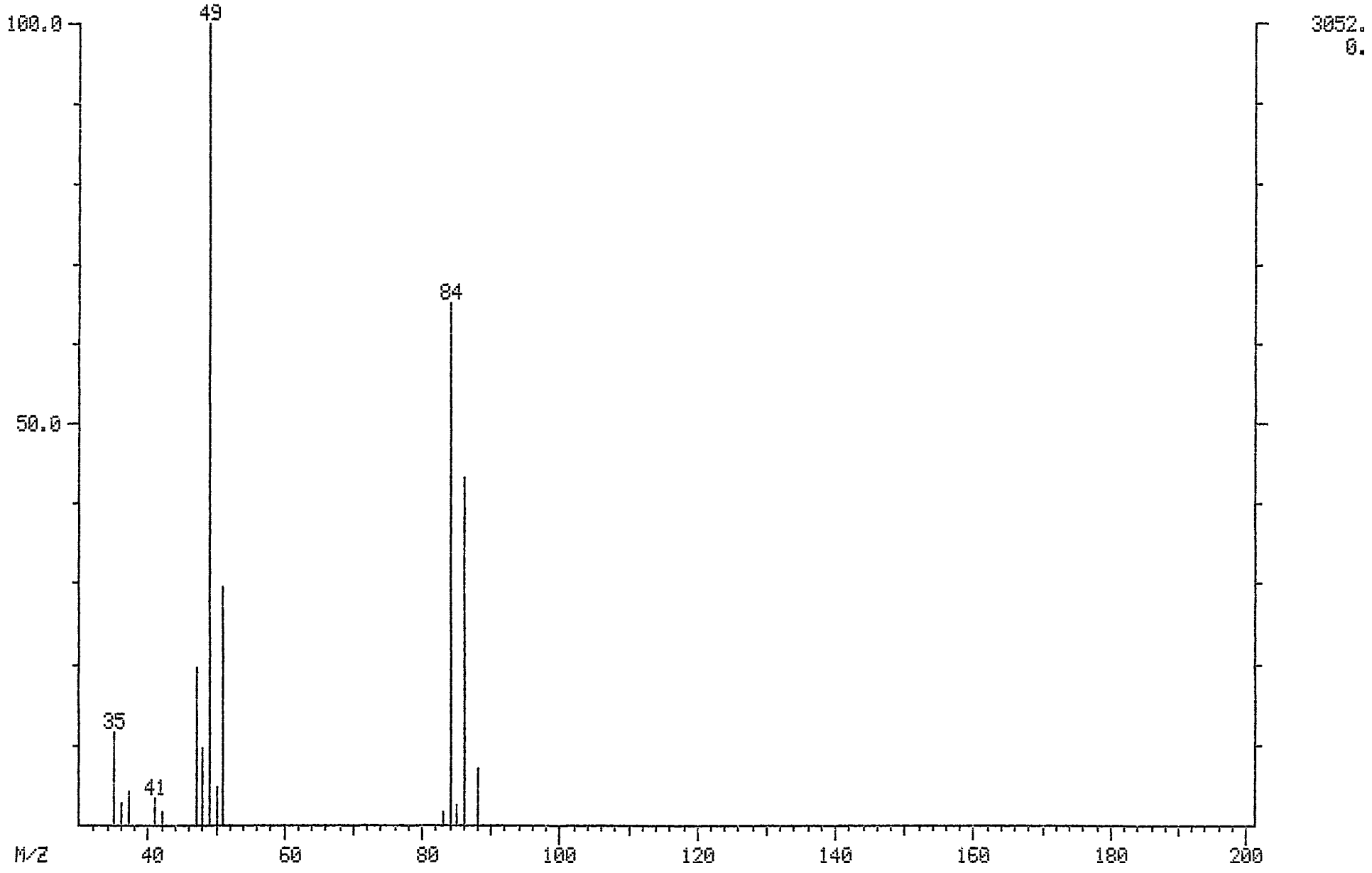
BASE M/Z: 49/ 49
RIC: 10096./ 44864.



MASS SPECTRUM
11/13/93 20:47:00 + 4:29
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EX003VR #269
CALI: EX003VR #3

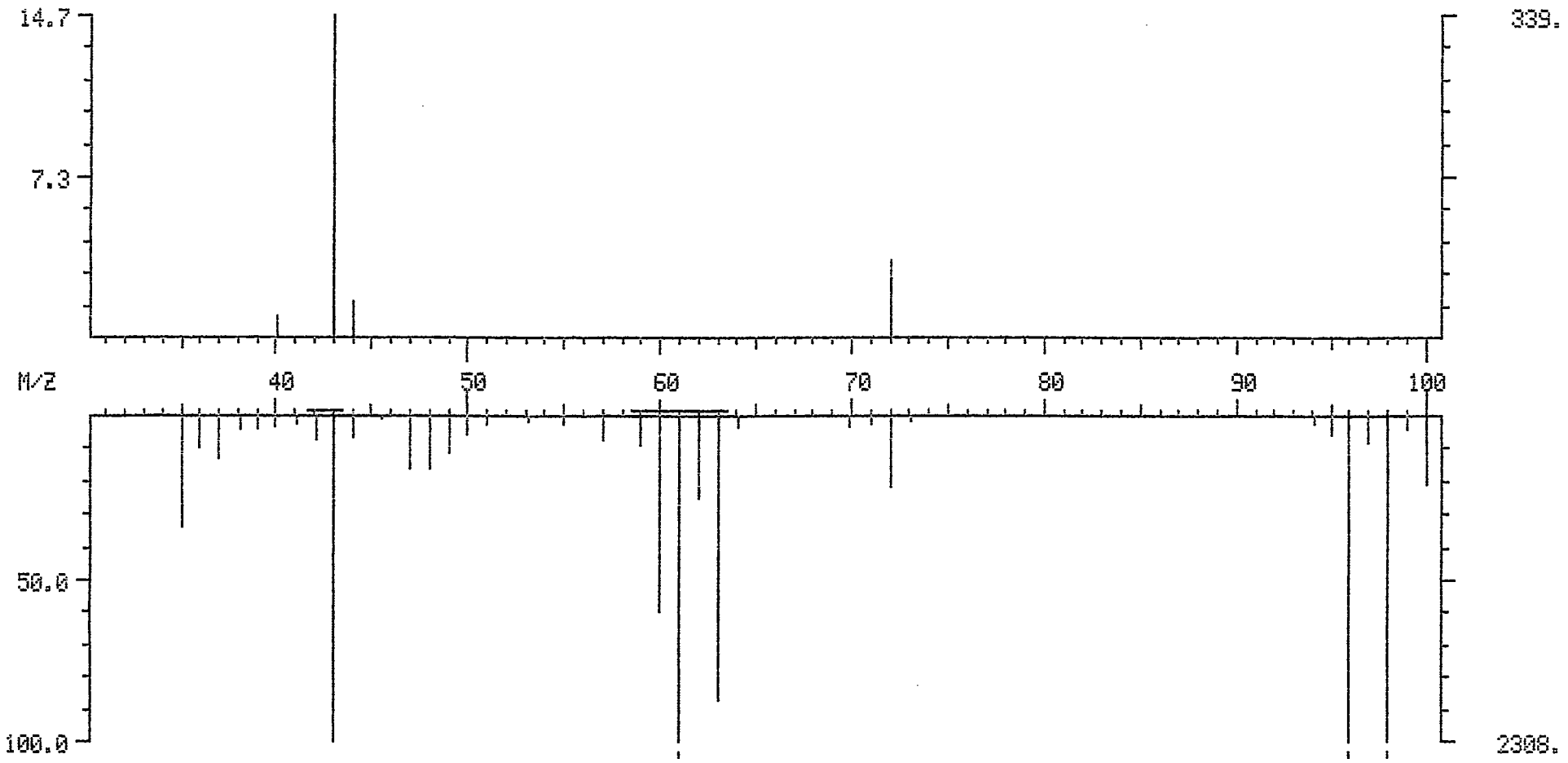
BASE M/Z: 49
RIC: 9392.



DUAL MASS SPECTRUM
11/13/93 20:47:00 + 6:22
SECOND SPECTRUM
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
NAME: C110 2-BUTANONE

DATA: EXQ03VR #382
CALI: EXQ03VR #3
DATA: 50VZ1113Z #382

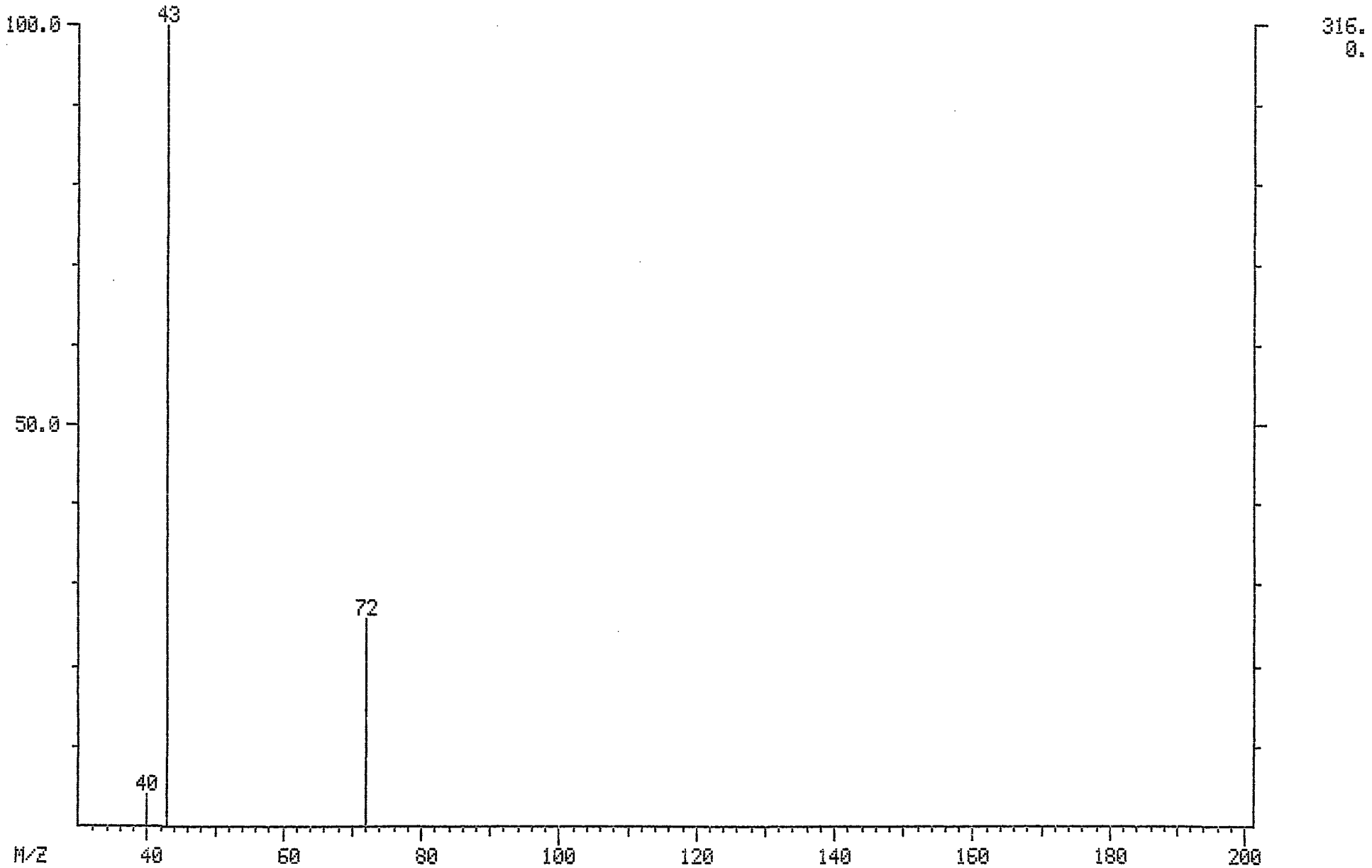
BASE M/Z: 43/ 61
RIC: 481./ 25344.



MASS SPECTRUM
11/13/93 20:47:00 + 6:22
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: EX003VR #382
CALI: EX003VR #3

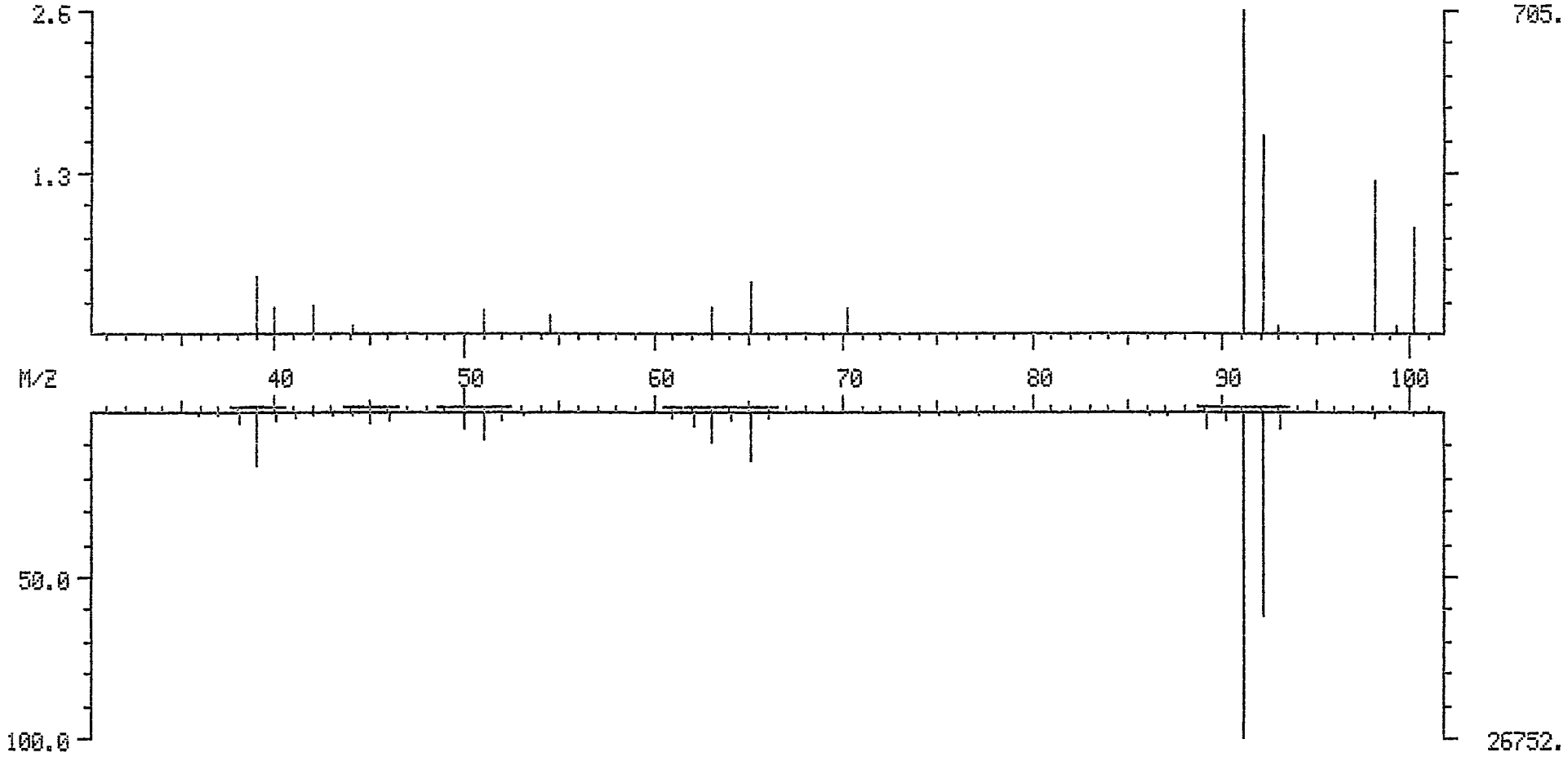
BASE M/Z: 43
RIC: 411.



DUAL MASS SPECTRUM
11/13/93 20:47:00 + 11:26
SECOND SPECTRUM
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 95 DEG. C
NAME: C230 TOLUENE

DATA: EX003VR #686
CALI: EX003VR #3
DATA: 50VZ1113Z #686

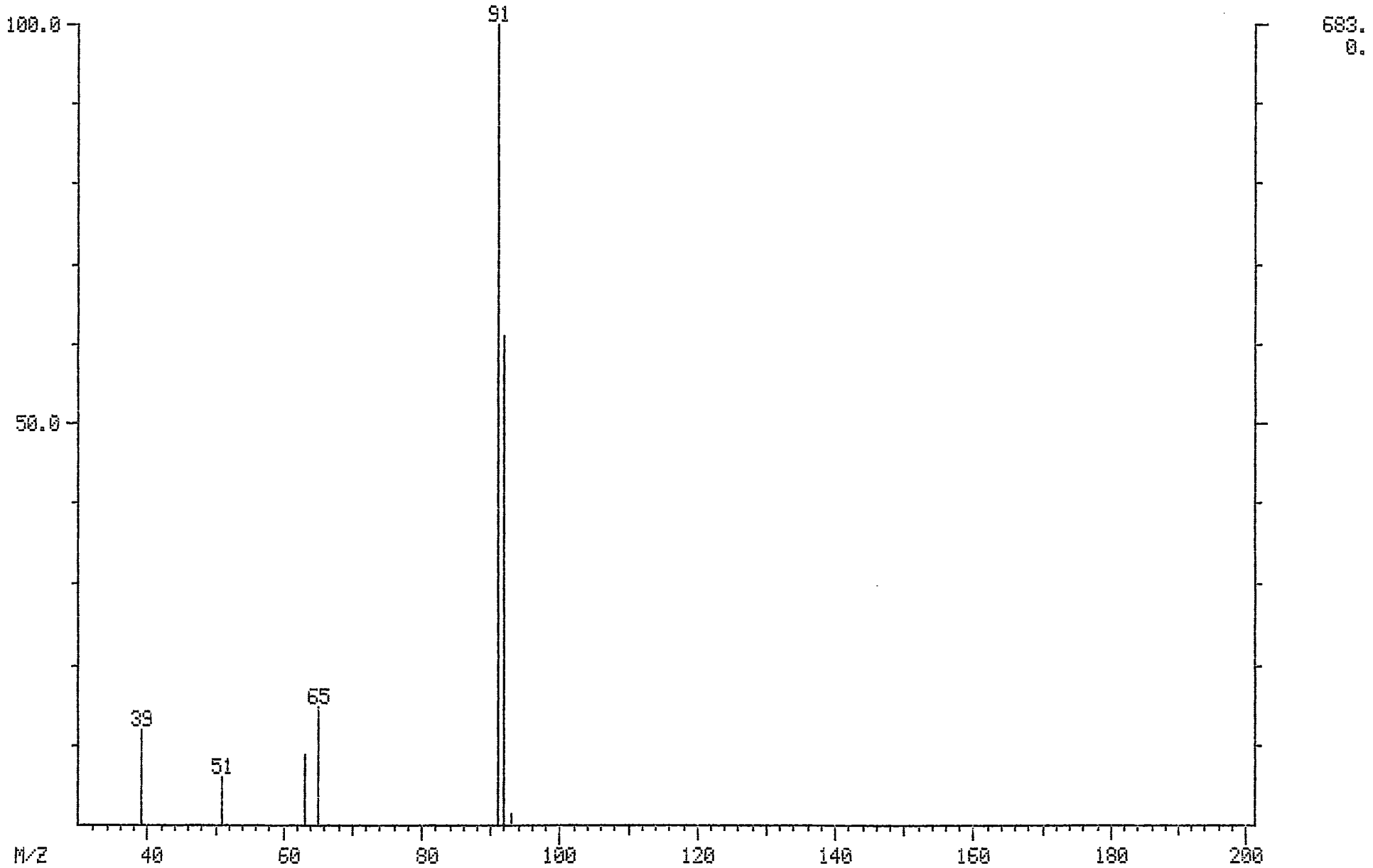
BASE M/Z: 91/ 91
RIC: 2320./ 70912.



MASS SPECTRUM
11/13/93 20:47:00 + 11:26
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 95 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C230 TOLUENE

DATA: EX003VR #686
CALI: EX003VR #3

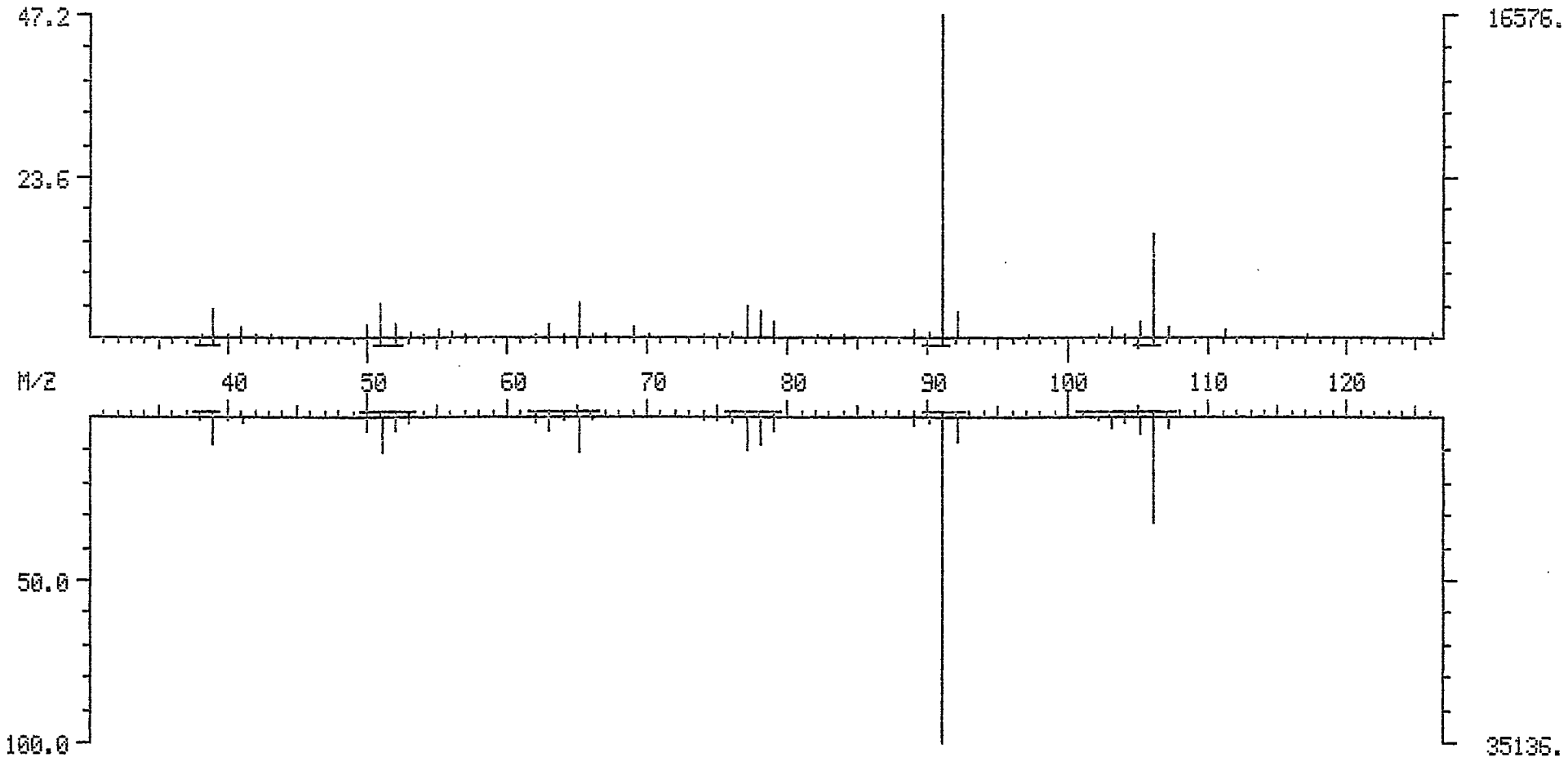
BASE M/Z: 91
RIC: 1394.



DUAL MASS SPECTRUM
11/13/93 20:47:00 + 14:49
SECOND SPECTRUM
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 115 DEG. C
NAME: C240 ETHYLBENZENE

DATA: EX003VR #889
CALI: EX003VR #3
DATA: 50VZ1113Z #889

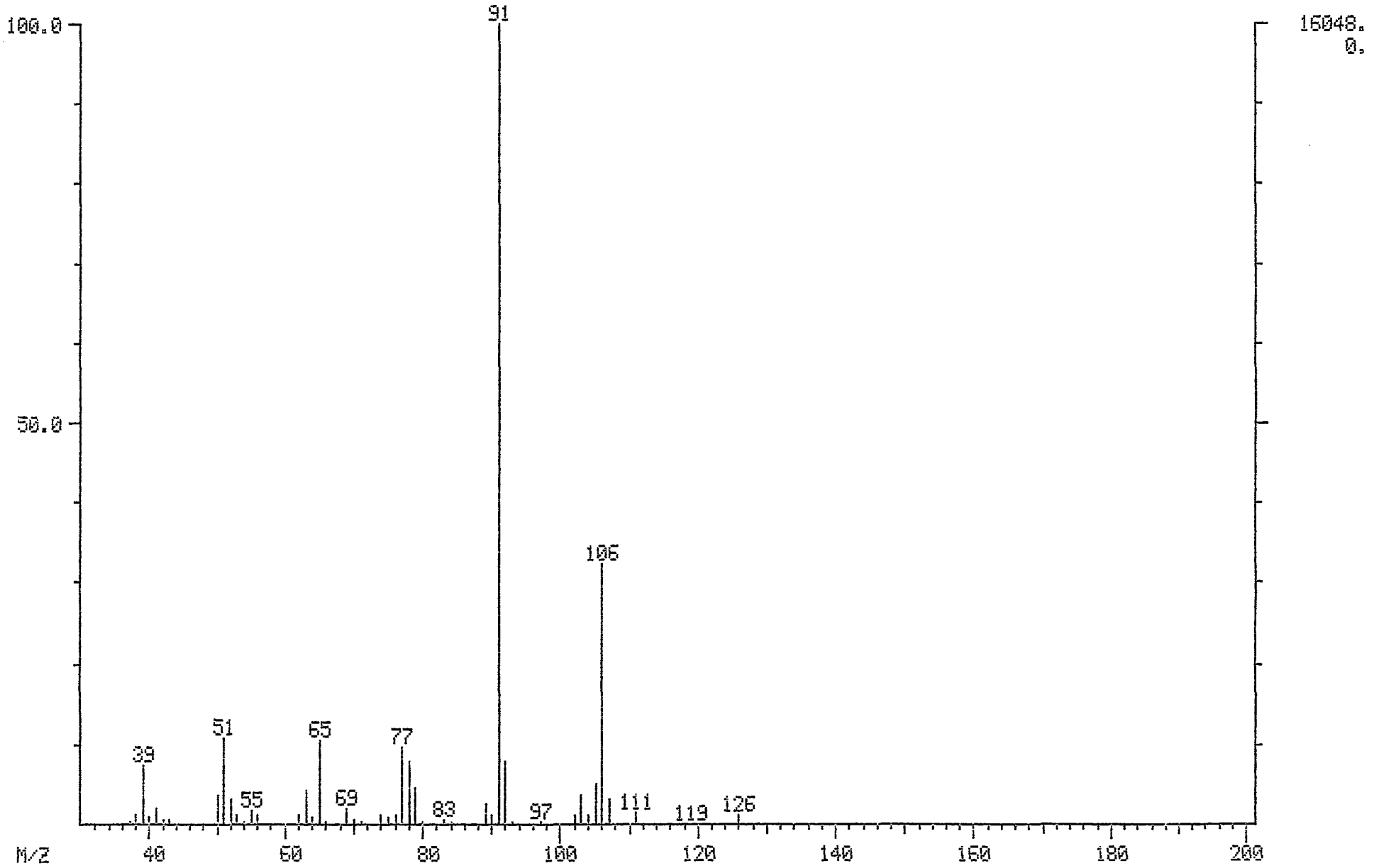
BASE M/Z: 91/ 91
RIC: 42240./ 83200.



MASS SPECTRUM
11/13/93 20:47:00 + 14:49
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C240 ETHYLBENZENE

DATA: EXQ03VR #889
CALI: EXQ03VR #3

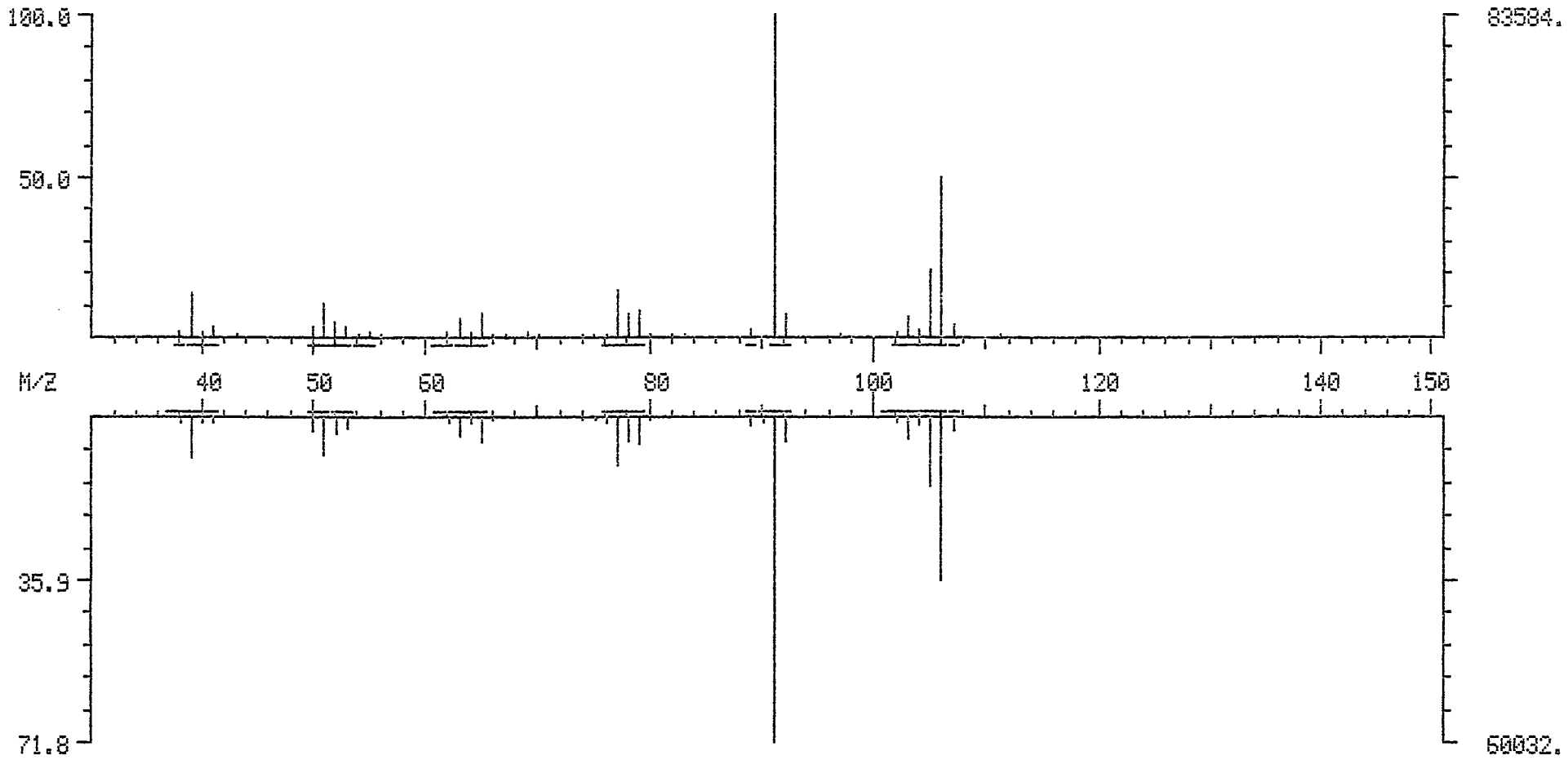
BASE M/Z: 91
RIC: 38976.



DUAL MASS SPECTRUM
11/13/93 20:47:00 + 15:06
SECOND SPECTRUM
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EX003VR #906
CALI: EX003VR #3
DATA: 50VZ11132 #906

BASE M/Z: 91/ 91
RIC: 253440./ 175872.

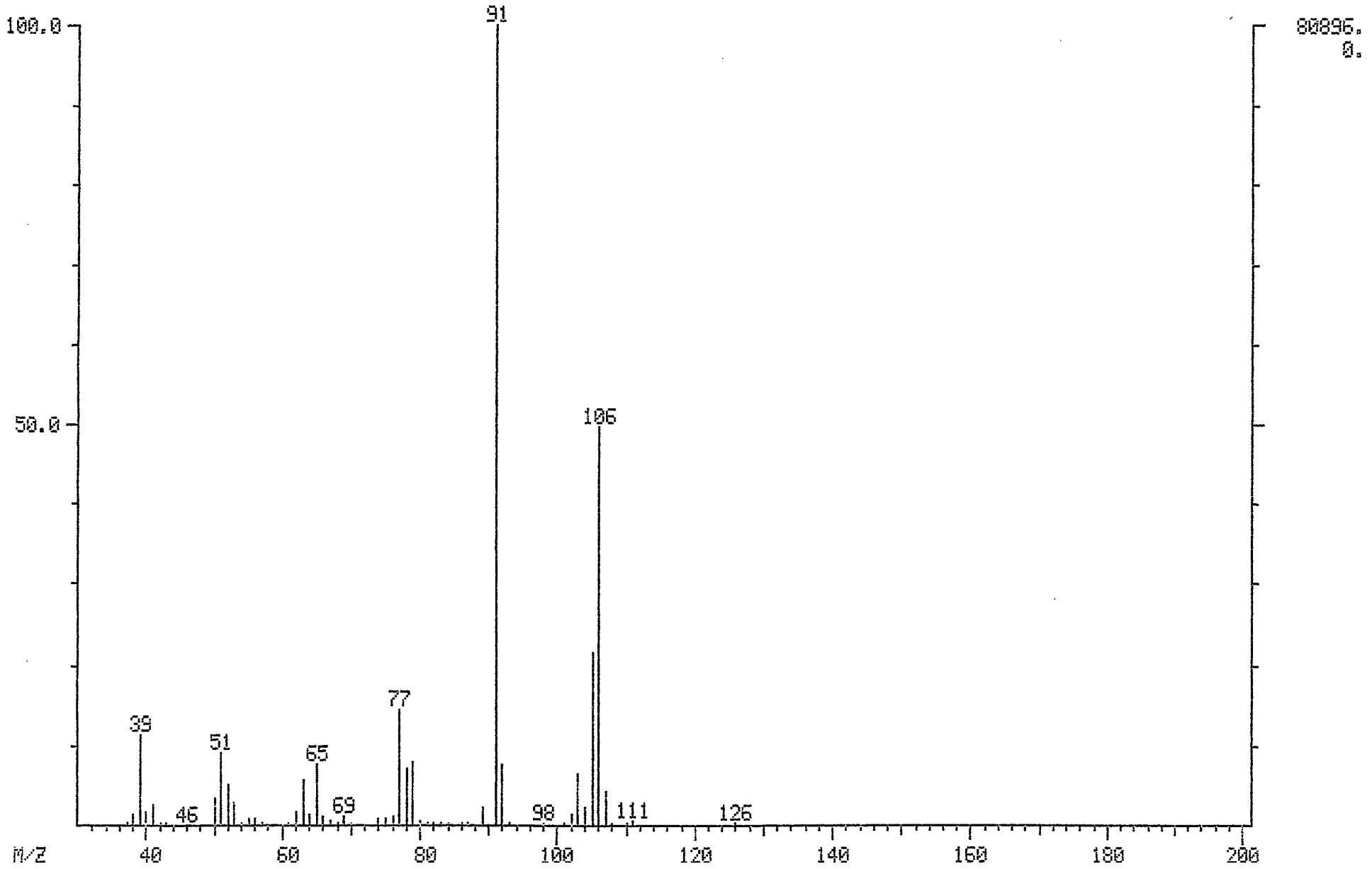


MASS SPECTRUM
11/13/93 20:47:00 + 15:06
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EX003VR #906
CALI: EX003VR #3

BASE M/Z: 91
RIC: 239104.

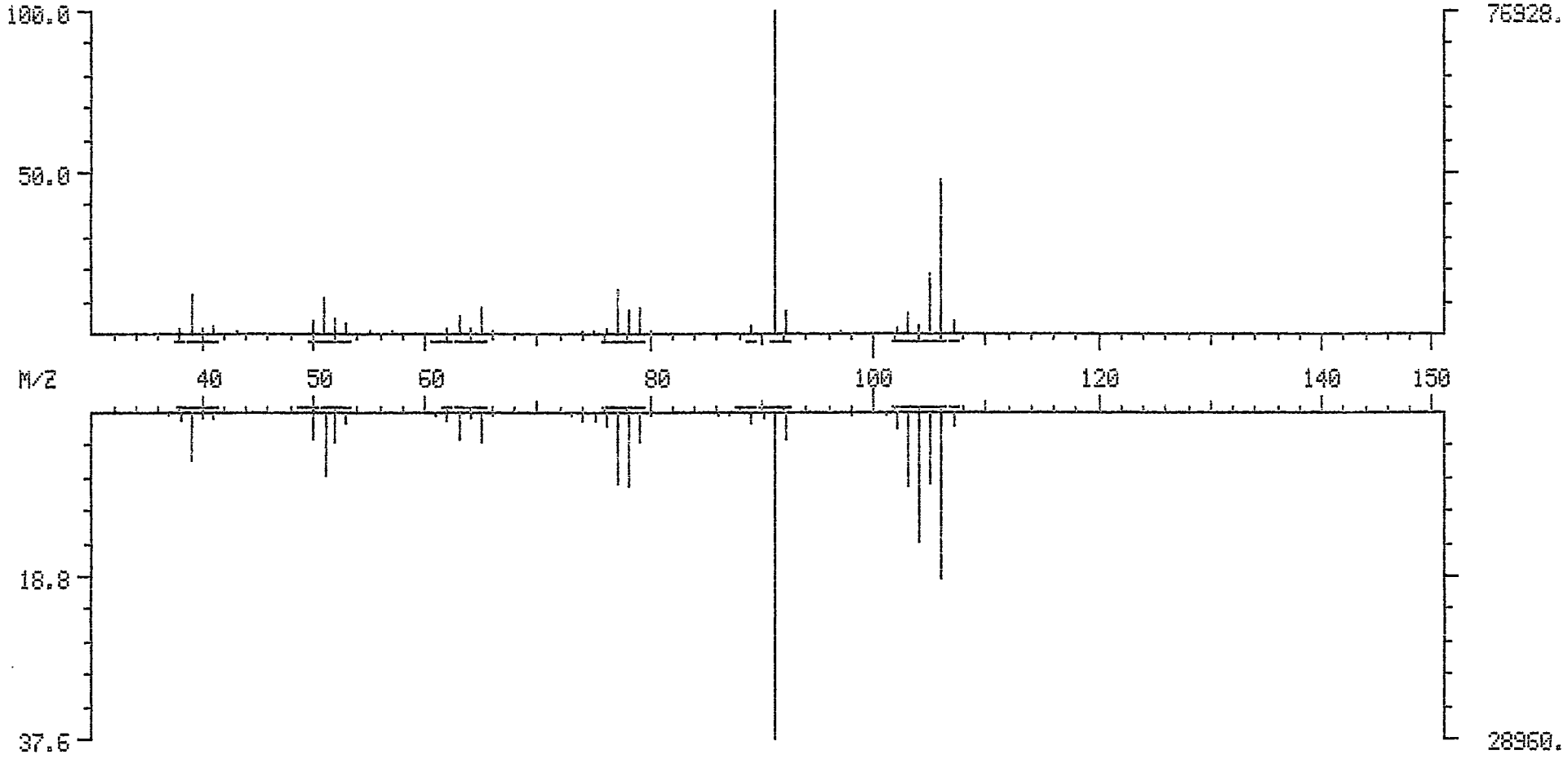
141



DUAL MASS SPECTRUM
11/13/93 20:47:00 + 16:03
SECOND SPECTRUM
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 123 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EX003VR #963
CALI: EX003VR #3
DATA: 50VZ1113Z #962

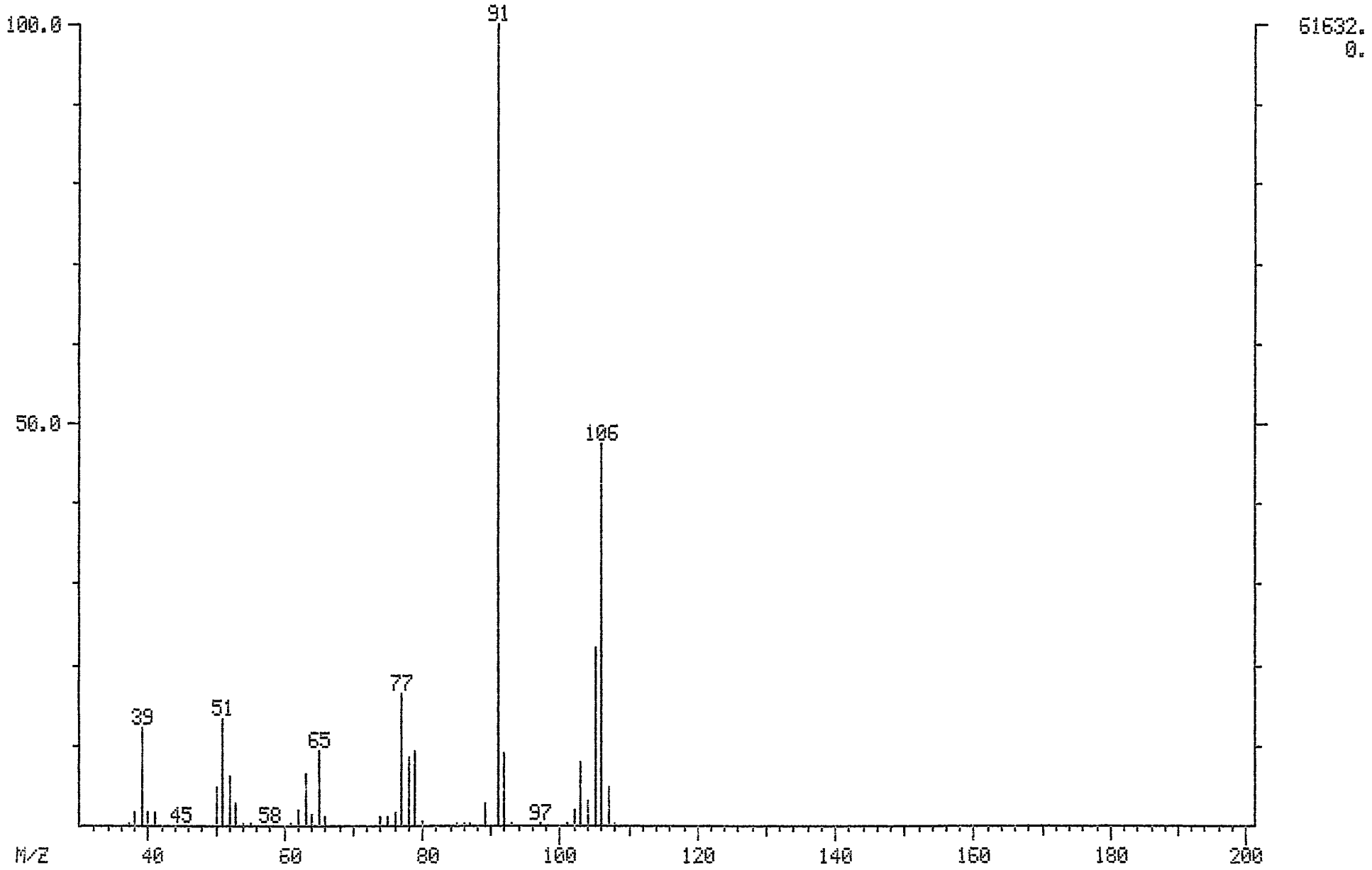
BASE M/Z: 91/ 91
RIC: 221696./ 118144.



MASS SPECTRUM
11/13/93 20:47:00 + 16:03
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 123 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EX003VR #963
CALI: EX003VR #3

BASE M/Z: 91
RIC: 189696.



Library Search Data: EXQ03VR # 718 Base m/z: 55
11/13/93 20:47:00 + 11:58 Cali: EXQ03VR # 3 RIC: 6128.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
71 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2372	CYCLOHEXANE, 1,2-DIMETHYL-, TRANS-
2	2355	4-OCTENE, (Z)-
3	2376	3-OCTENE, (E)-
4	2356	CYCLOOCTANE
5	2354	CYCLOHEXANE, 1,2-DIMETHYL-, CIS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H16	112	55	903	989	903
2	C8.H16	112	55	639	985	639
3	C8.H16	112	41	647	984	647
4	C8.H16	112	41	679	971	679
5	C8.H16	112	55	864	971	864

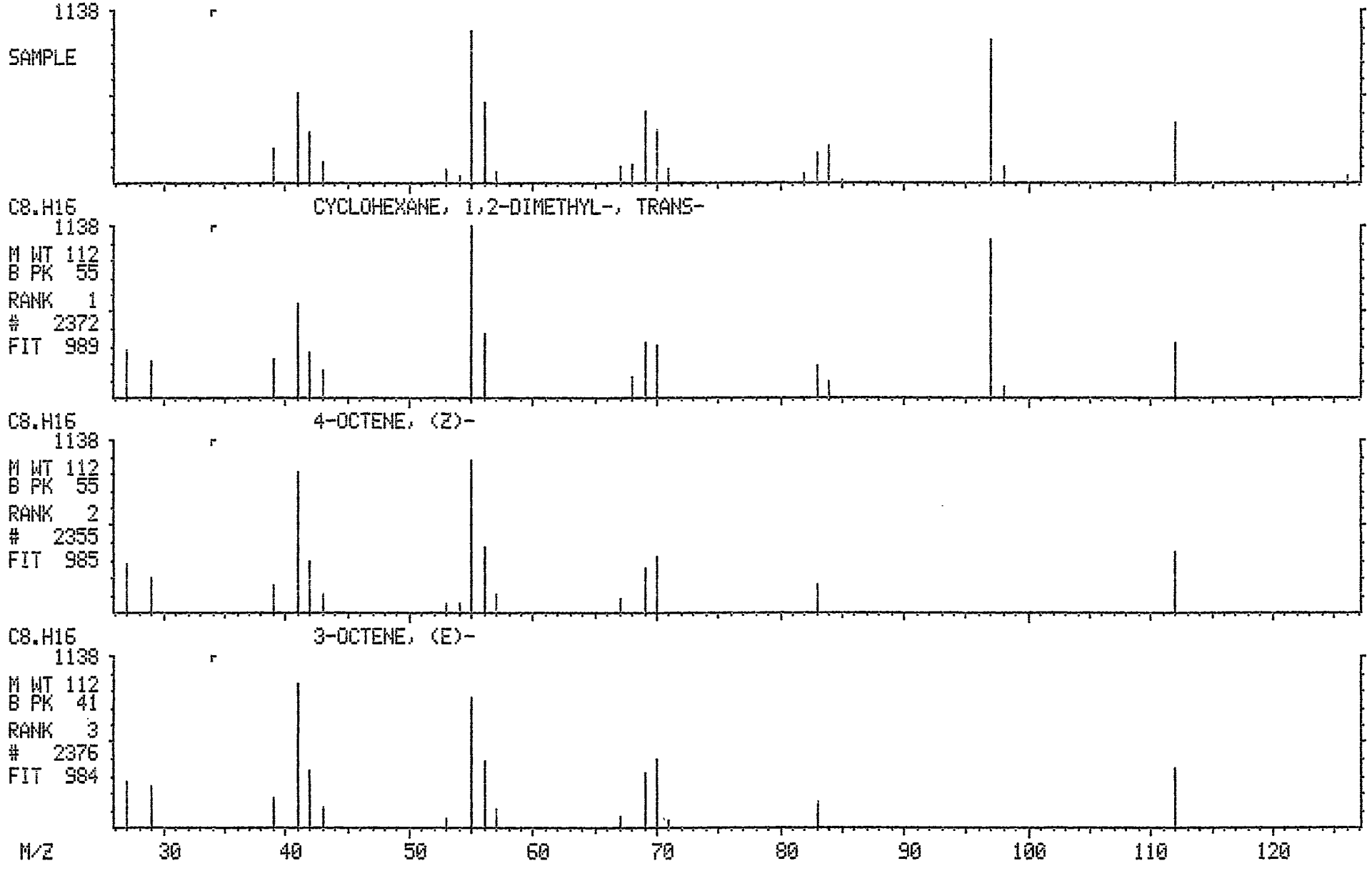
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	6876-23-9
2	___	___	___	___	7642-15-1
3	___	___	___	___	14919-01-8
4	___	___	___	___	292-64-8
5	___	___	___	___	2207-01-4

Mass	Inten	1	2	3	4	5
27		316	322	306	533	320
29		248	234	268	308	253
39	235	262	183	203	457	272
41	585	616	932	961	777	632
42	328	305	329	383	432	337
43	144	184	114	133	246	152
53	95		65	65		
54	47		66			
55	999	1138	999	858	526	1086
56	529	425	420	439	531	401
57	82		122	115	76	97
67	99		83	74	84	
68	123	138			129	
69	468	367	294	368	380	265
70	346	355	369	458	397	397
71	91			49		
82	53					104
83	194	217	185	165	288	447
84	249	109			201	122
85	7					
97	941	1053				739
98	104	78				
112	396	370	397	397	397	440
126	50					

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 11:58
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03VR # 718
CALI: EXQ03VR # 3

BASE M/Z: 55
RIC: 6128.



Library Search Data: EXQ03VR # 803 Base m/z: 111
11/13/93 20:47:00 + 13:23 Cali: EXQ03VR # 3 RIC: 8136.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
130 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4059	CYCLOHEXANE, 1,1,2-TRIMETHYL-
2	4032	CYCLOHEXANE, 1,1,3-TRIMETHYL-
3	2404	3-HEXENE, 2,5-DIMETHYL-, (E)-
4	6428	CYCLOHEXANE, 1-ETHYL-2,4-DIMETHYL-
5	6406	CYCLOHEXANE, 1-ETHYL-1,3-DIMETHYL-, CIS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	944	980	954
2	C9.H18	126	111	944	980	954
3	C8.H16	112	69	480	958	499
4	C10.H20	140	111	893	952	920
5	C10.H20	140	69	893	949	904

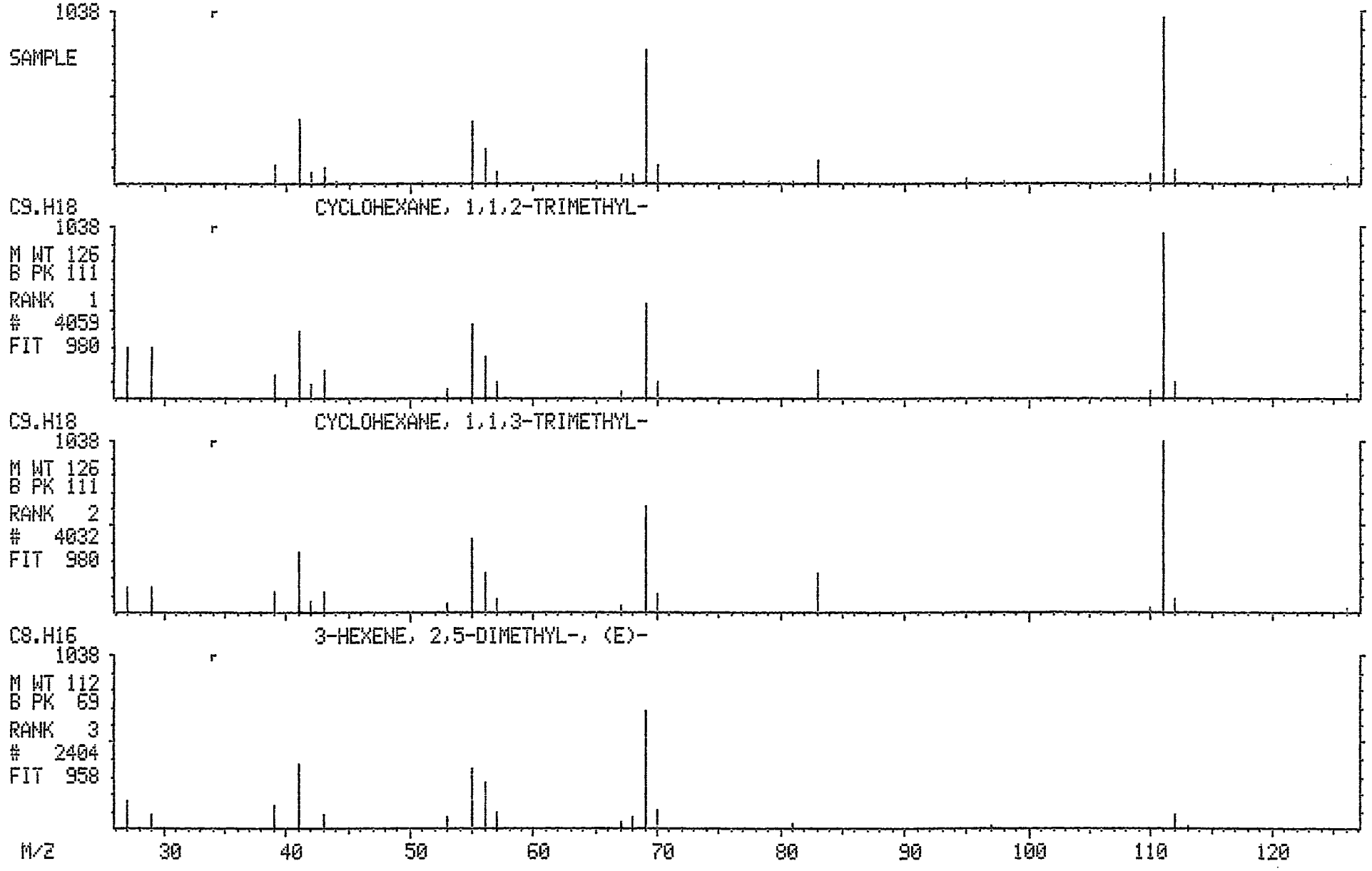
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	7094-26-0
2	___	___	___	___	3073-66-3
3	___	___	___	___	692-70-6
4	___	___	___	___	61142-69-6
5	___	___	___	___	62238-31-7

Mass	Inten	1	2	3	4	5
27		301	149	162		
29		297	145	79	95	154
39	116	145	121	142	71	102
41	383	395	356	380	243	316
42	73	77	65			
43	102	162	128	84	120	92
44	10					
51	4					
53		57	52	67		
55	378	443	438	366	502	508
56	213	242	230	272	117	48
57	76	95	88	94	65	71
65	3					
67	61	40	44	40	34	46
68	50			74		
69	795	571	640	704	885	907
70	111	97	111	113	96	54
77	6					37
79	15					
81	19			24		
83	136	167	232		54	49
95	23				40	65
97				10	34	
98	6					
110	49	47	27		100	107
111	999	994	1038		935	902
112	86	95	89	86	76	69
113				7		
125						26
126	47	29	24			

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 13:23
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003VR # 803
CALI: EX003VR # 3

BASE M/Z: 111
RIC: 8136.



Library Search Data: EXQ03VR # 987 Base m/z: 57
11/13/93 20:47:00 + 16:27 Cali: EXQ03VR # 3 RIC: 12816.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
286 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6843	NONANE, 3-METHYL-
2	6874	OCTANE, 3,6-DIMETHYL-
3	9732	OCTANE, 2,3,7-TRIMETHYL-
4	6782	TRANS-1,2-BIS(AMINOMETHYL)CYCLOHEXANE
5	3726	PENTALENE, OCTAHYDRO-2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	596	989	599
2	C10.H22	142	57	578	968	587
3	C11.H24	156	57	544	959	551
4	C8.H18.N2	142	30	490	953	490
5	C9.H16	124	81	407	953	412

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	5911-04-6
2	----	----	----	----	15869-94-0
3	----	----	----	----	62016-34-6
4	----	----	----	----	70795-46-9
5	----	----	----	----	3868-64-2

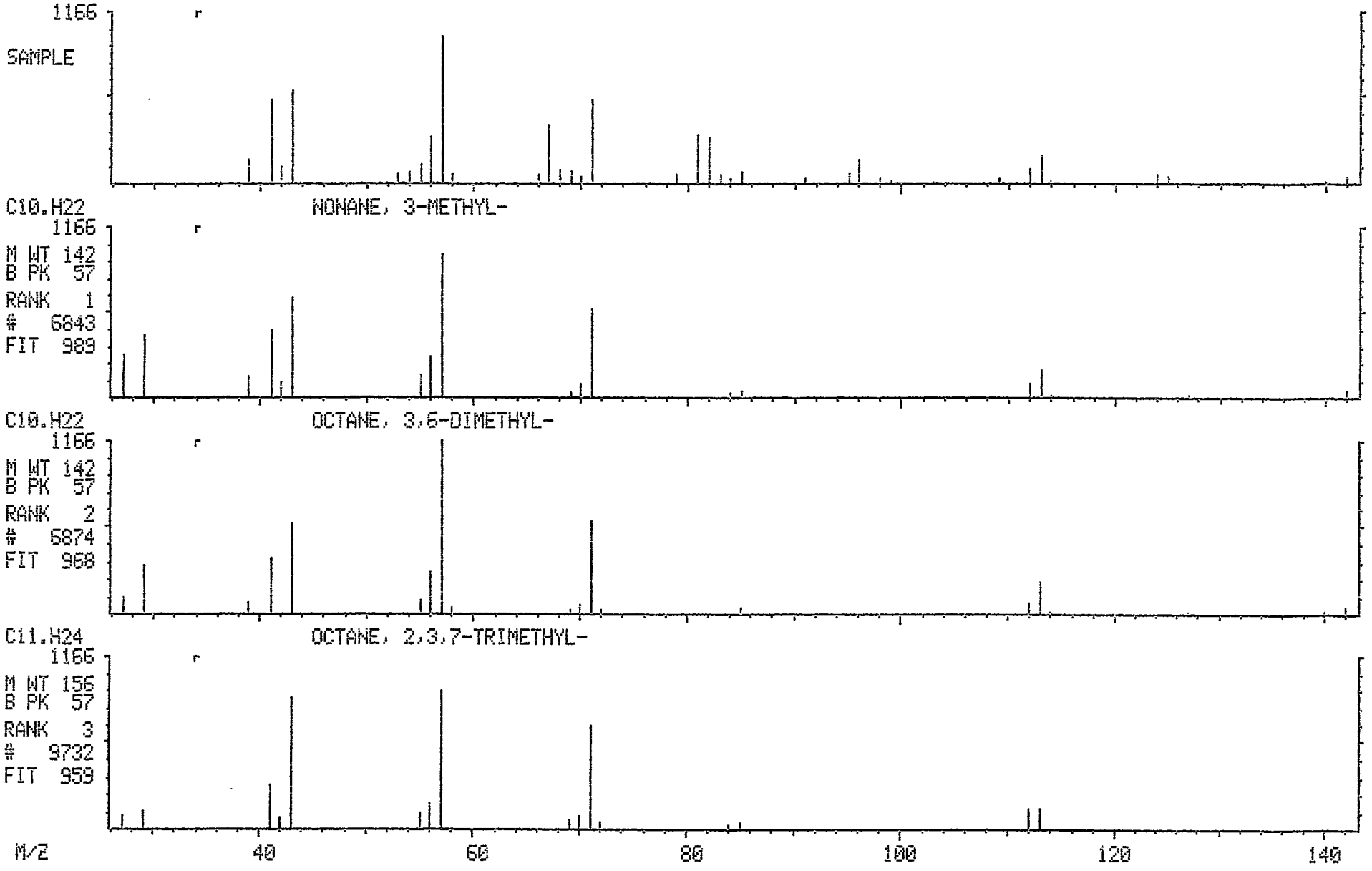
Mass	Inten	1	2	3	4	5
27		295	110	94		
29		443	322	119		
30					1123	
39	150	144	76			252
41	557	474	371	287	495	292
42	105	107		84		
43	619	681	607	884	250	
53	66					87
54	76				146	118
55	123	148	96	110	102	139
56	305	282	280	173	537	
57	999	974	1166	933		
58	66		51			
66	67					
67	391				334	333
68	93				165	85
69	75	37	29	68		
70	53	92	54	97		
71	564	599	618	701		
72			37	39		
79	64					36
80						25
81	332				244	478
82	306				163	214
83	63					25
84	37	37		37		
85	78	47	49	44		
91	32					
95	65					42
96	148				136	181

99	21					
109	29					34
112	88	88	70	134		
113	190	193	209	135	235	
114	19	16	17			
124	61					55
125	44					
127		8	8			
140	11		1			
142	40	40	40		40	

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 16:27
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003VR # 987
CALI: EX003VR # 3

BASE M/Z: 57
RIC: 12816.



Library Search Data: EXQ03VR #1000 Base m/z: 55
11/13/93 20:47:00 + 16:40 Cali: EXQ03VR # 3 RIC: 12224.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
339 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	22948	CYCLOHEXANEMETHYL DICHLOROACETATE
2	2676	CYCLOHEXANEMETHANOL
3	3710	CYCLOPENTANE, 1-METHYL-2-(2-PROPENYL)-, TRANS-
4	3694	CYCLOHEXANE, 1-PROPENYL-
5	3702	CYCLOHEXANE, 2-PROPENYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H14.O2.CL2	224	55	467	950	470
2	C7.H14.O	114	55	539	947	556
3	C9.H16	124	83	582	941	592
4	C9.H16	124	55	530	936	546
5	C9.H16	124	55	536	930	548

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	86338-70-7
2	___	___	___	___	100-49-2
3	___	___	___	___	50746-53-7
4	___	___	___	___	5364-83-0
5	___	___	___	___	2114-42-3

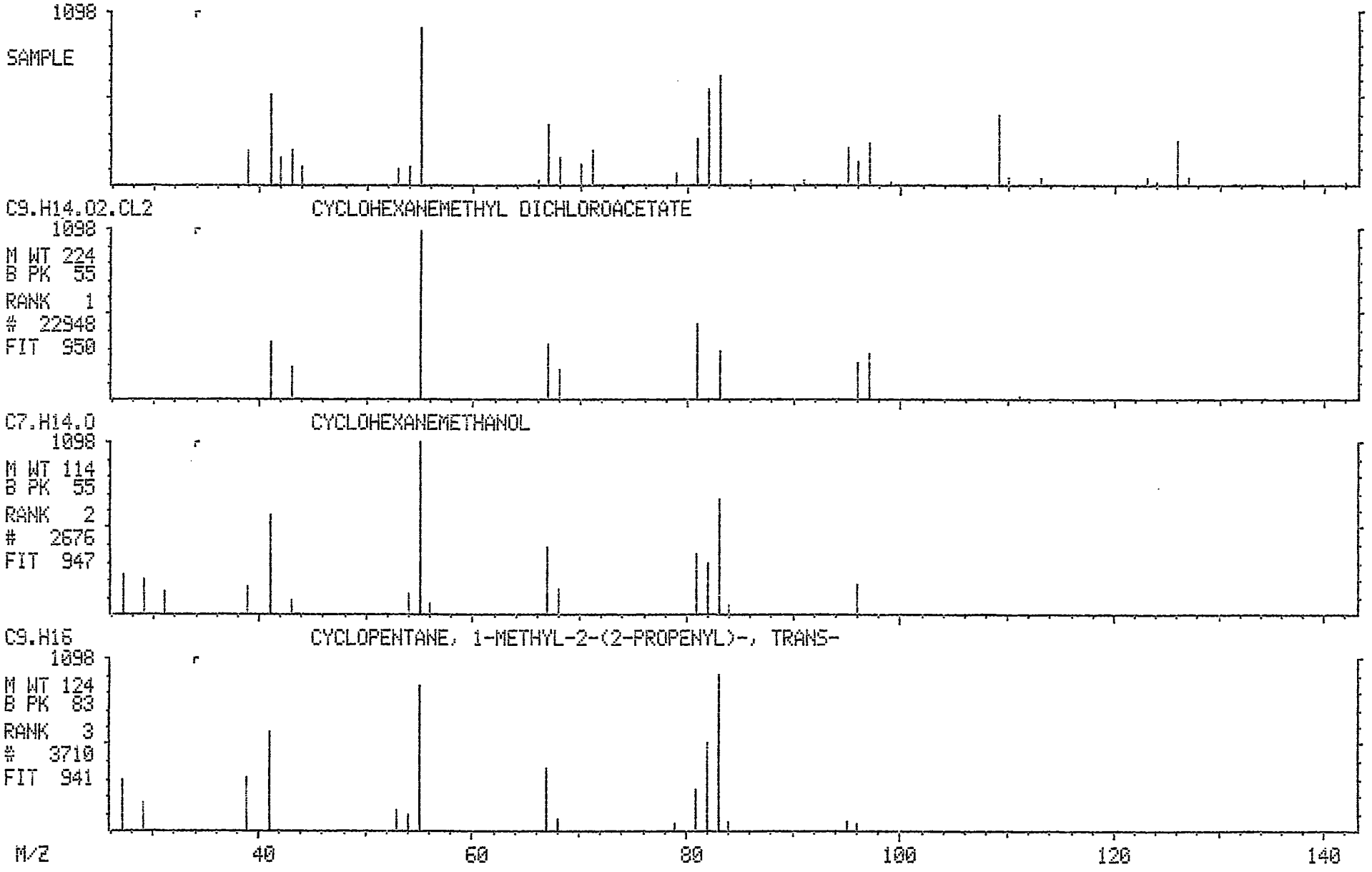
Mass	Inten	1	2	3	4	5
27			252	329	312	210
29			224	170	166	112
31			145			
39	221		178	342	320	287
41	564	365	624	628	628	571
42	171					
43	219	203	83			
44	123					
53	104			127	109	105
54	124		130	99	113	108
55	999	1078	1097	919	1028	1132
56			75		60	
66	33					
67	383	348	422	399	256	222
68	172	189	158	77	58	48
70	134					
71	221					
79	70			47		36
81	286	484	386	261	134	121
82	603		315	549	632	603
83	693	302	733	998	985	1063
84			56	64	63	72
86	31					
91	28					
95	240			63		
96	147	228	187	44	57	62
97	268	293				
99	21					
109	435					
110	36					

113	38		
123	45		
124	17	17	68
126	272		
127	37		
138	30		
142	8		

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 16:40
SAMPLE: EX003DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EX003VR #1000
CALI: EX003VR # 3

BASE M/Z: 55
RIC: 12224.



Library Search Data: EXQ03VR #1018 Base m/z: 105
11/13/93 20:47:00 + 16:58 Cali: EXQ03VR # 3 RIC: 15792.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
85 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3286	BENZENE, (1-METHYLETHYL)-
2	8413	BENZENE, (1-NITROETHYL)-
3	3288	BENZENE, 1-ETHYL-2-METHYL-
4	3293	BENZENE, 1-ETHYL-4-METHYL-
5	3292	BENZENE, 1-ETHYL-3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	105	882	992	882
2	C8.H9.O2.N	151	105	693	990	693
3	C9.H12	120	105	870	975	870
4	C9.H12	120	105	869	973	869
5	C9.H12	120	105	851	964	851

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	98-82-8
2	___	___	___	___	7214-61-1
3	___	___	___	___	611-14-3
4	___	___	___	___	622-96-8
5	___	___	___	___	620-14-4

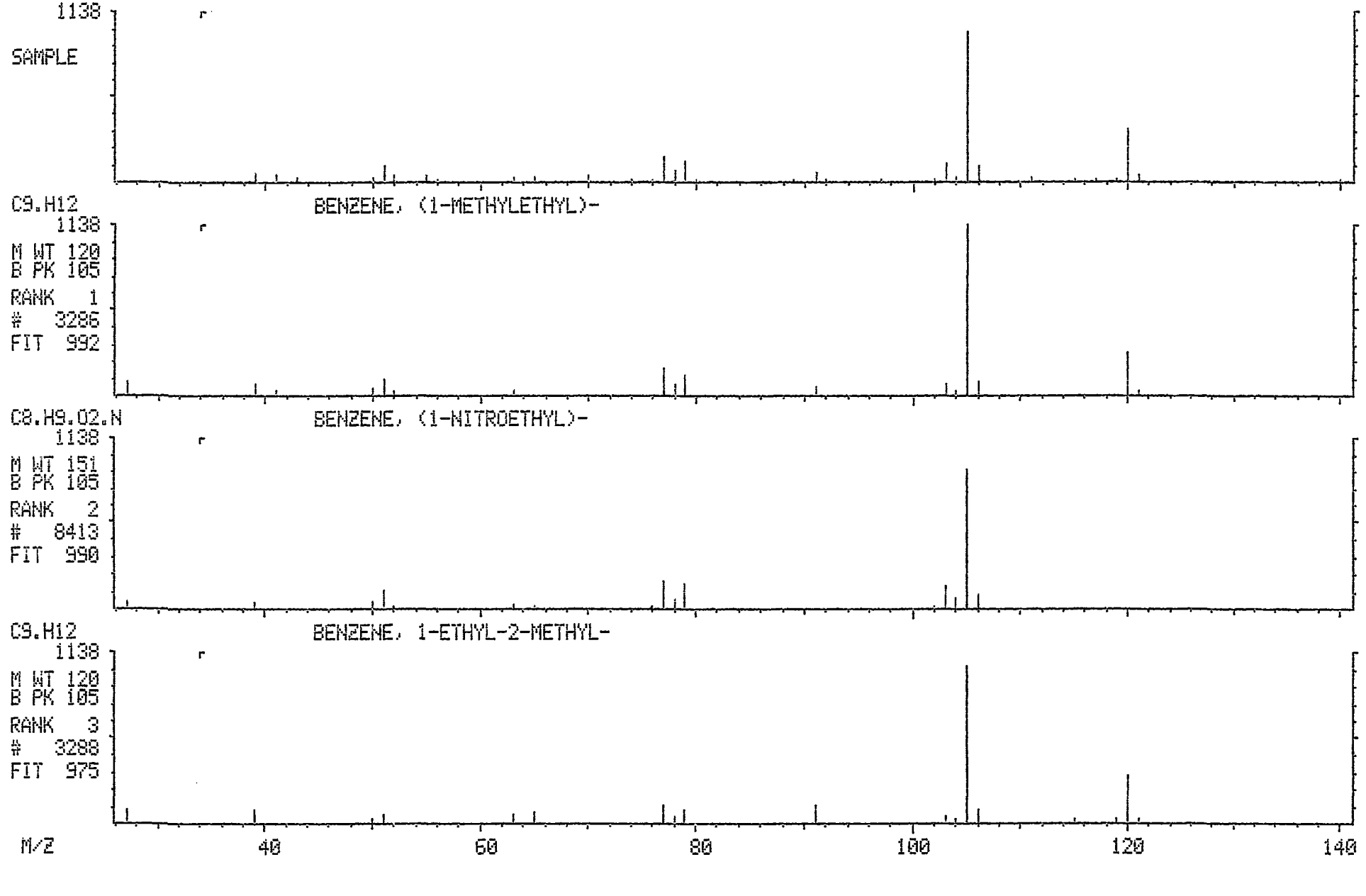
Mass	Inten	1	2	3	4	5
27		87	42	84	81	80
39	59	79	44	96	92	96
41	53	36				
43	31					
50	30	40	45	24	25	24
51	111	108	117	59	58	57
52	39	33	21			
55	46					
56	20					
63	28	33	26	54	58	58
65	30		13	78	78	78
70	51					
74	19					
76	16		13			
77	163	174	187	118	122	106
78	81	76	59	45	48	43
79	140	135	160	87	77	67
80	9					
89	15					
91	63	57		116	101	113
92	12					43
97	18					
102	18		16			
103	118	69	149	53	50	50
104	34	25	70	25	27	
105	999	1138	929	1050	1060	1024
106	112	97	92	89	90	87
111	25					
115	17			24	21	21
117	7					

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 16:58
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03VR #1018
CALI: EXQ03VR # 3

BASE M/Z: 105
RIC: 15792.

155



Library Search Data: EXQ03VR #1063 Base m/z: 69
11/13/93 20:47:00 + 17:43 Cali: EXQ03VR # 3 RIC: 31680.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
253 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	24425	2,5-PYRROLIDINEDIONE, 3-[1-(ETHYLSULFONYL)ETHYL]-4-METHYL-
2	6433	CYCLOHEXANE, 1,1,2,3-TETRAMETHYL-
3	6432	3-OCTENE, 2,6-DIMETHYL-
4	4031	CYCLOHEXANE, 1,2,3-TRIMETHYL-
5	6394	2-OCTENE, 2,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H15.O4.N.S	233	69	234	1000	234
2	C10.H20	140	69	844	979	844
3	C10.H20	140	55	689	976	689
4	C9.H18	126	55	556	968	556
5	C10.H20	140	69	693	967	693

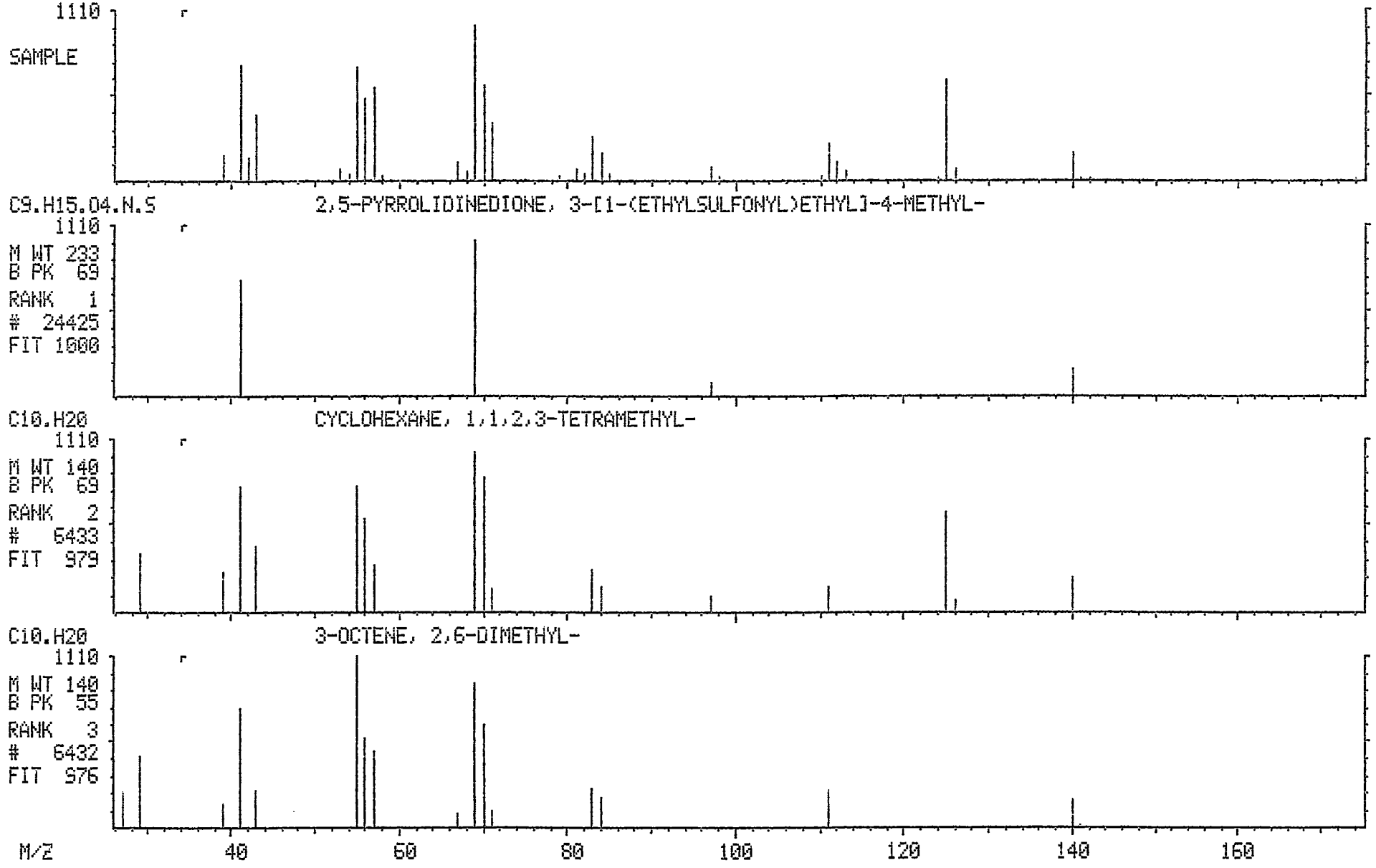
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	58467-34-8
2	___	___	___	___	6783-92-2
3	___	___	___	___	6874-28-8
4	___	___	___	___	1678-97-3
5	___	___	___	___	4057-42-5

Mass	Inten	1	2	3	4	5
27				215	450	
29			374	456	364	346
39	157		250	145	334	179
41	753	752	797	767	728	1063
42	143				280	147
43	433		408	240	197	429
53	76				155	
54	40					
55	733		794	1109	865	710
56	529		585	583	429	549
57	609		302	493		240
58	27					
67	124			94	155	94
68	59					
69	999	1000	1022	938	848	1256
70	624		856	662	509	808
71	367		144	111		132
79	36					
81	75					
82	45					
83	279		266	251	240	171
84	173		168	197		145
85	44					
97	86	86	103		164	
98	29					
110	31					
111	238		160	237	143	237
112	117					
113	63					
124	16					

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 17:43
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03VR #1063
CALI: EXQ03VR # 3

BASE M/Z: 69
RIC: 31680.



Library Search Data: EXQ03VR #1080 Base m/z: 91
11/13/93 20:47:00 + 18:00 Cali: EXQ03VR # 3 RIC: 29440.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
70 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3303	BENZENE, PROPYL-
2	3280	BENZENEACETALDEHYDE
3	8480	ETHANOL, 2-[(PHENYLMETHYL)AMINO]-
4	12518	CYCLOHEPTATRIENYLIUM, BROMIDE
5	21783	CYCLOHEPTATRIENYLIUM, IODIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	91	889	984	889
2	C8.H8.O	120	91	849	972	849
3	C9.H13.O.N	151	91	862	967	880
4	C7.H7.BR	170	91	546	967	546
5	C7.H7.I	218	91	670	950	674

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	103-65-1
2	___	___	___	___	122-78-1
3	___	___	___	___	104-63-2
4	___	___	___	___	5376-03-4
5	___	___	___	___	1316-80-9

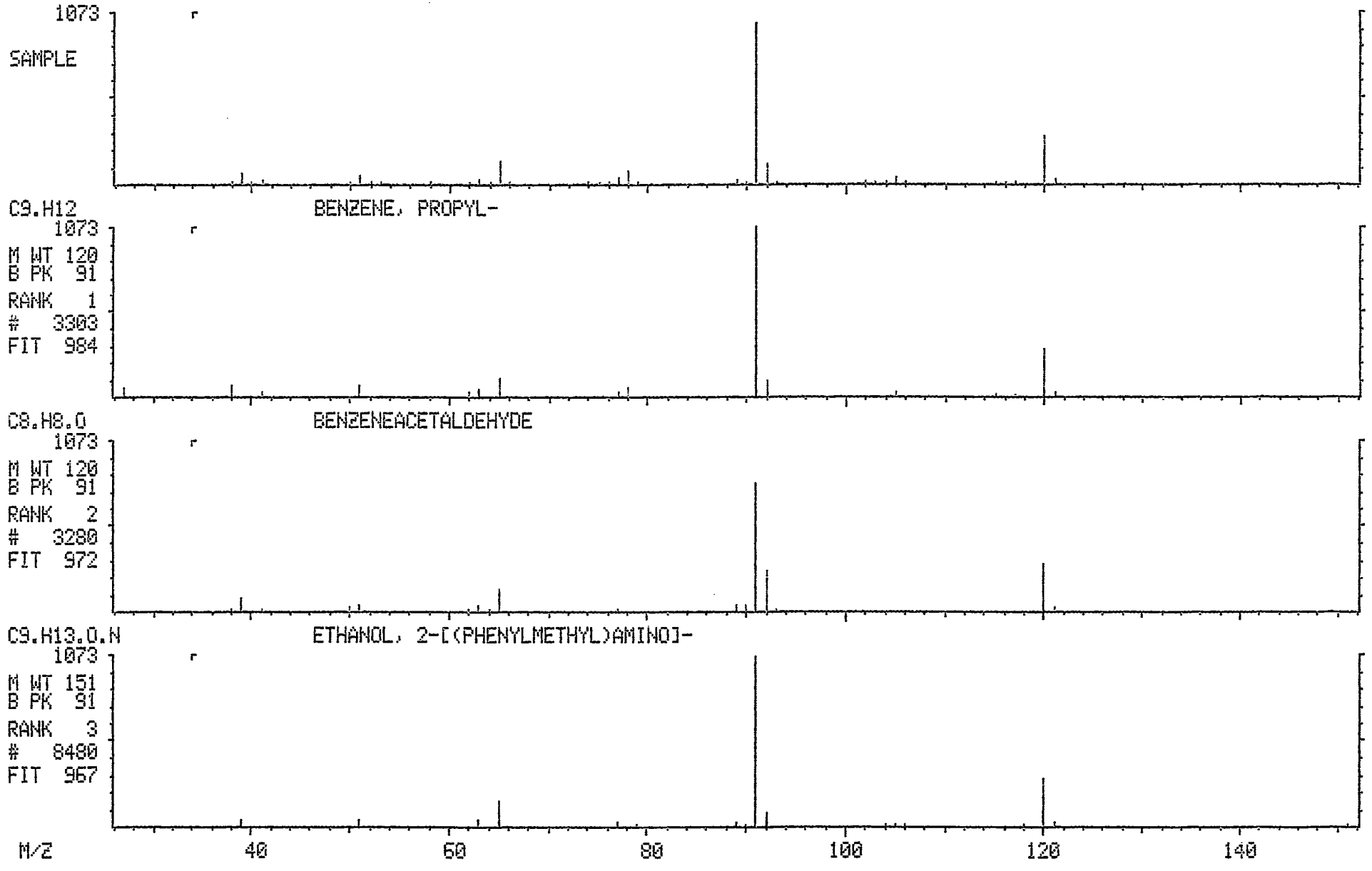
Mass	Inten	1	2	3	4	5
27		54				
38	8	78	12			
39	68		83	47		77
40	6					
41	26	31	21			
50	17		24		18	18
51	56	67	46	40	22	22
52	18					12
53	3					
58	7					
61						11
62	6	24	19			25
63	32	47	45	42	43	54
64	10		12			11
65	144	108	138	156	148	188
66	11					22
74	3					
75	5					
76	6					
77	49	31	14	35		17
78	82	63				35
79	18			15		
89	31		45	33	90	95
90	17		37	14	53	57
91	999	1073	801	1056	801	824
92	129	107	256	85		124
93	6		15			
102	6					
103	19					
104	8			10		

				15
	4			
	20	11		
	3			
	11	14		20
				301
	294	302	294	28
	31	28	31	7

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 + 18:00
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03VR #1080
CALI: EXQ03VR # 3

BASE M/Z: 91
RIC: 29440.



Library Search Data: EXQ03VR #1095 Base m/z: 105
11/13/93 20:47:00 + 18:15 Cali: EXQ03VR # 3 RIC: 267776.
Sample: EXQ03DL
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
133 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3292	BENZENE, 1-ETHYL-3-METHYL-
2	3288	BENZENE, 1-ETHYL-2-METHYL-
3	3293	BENZENE, 1-ETHYL-4-METHYL-
4	3286	BENZENE, (1-METHYLETHYL)-
5	3295	BENZENE, 1,2,3-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12	120	105	898	994	898
2	C9.H12	120	105	898	994	898
3	C9.H12	120	105	897	993	897
4	C9.H12	120	105	852	989	852
5	C9.H12	120	105	889	984	889

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	620-14-4
2	___	___	___	___	611-14-3
3	___	___	___	___	622-96-8
4	___	___	___	___	98-82-8
5	___	___	___	___	526-73-8

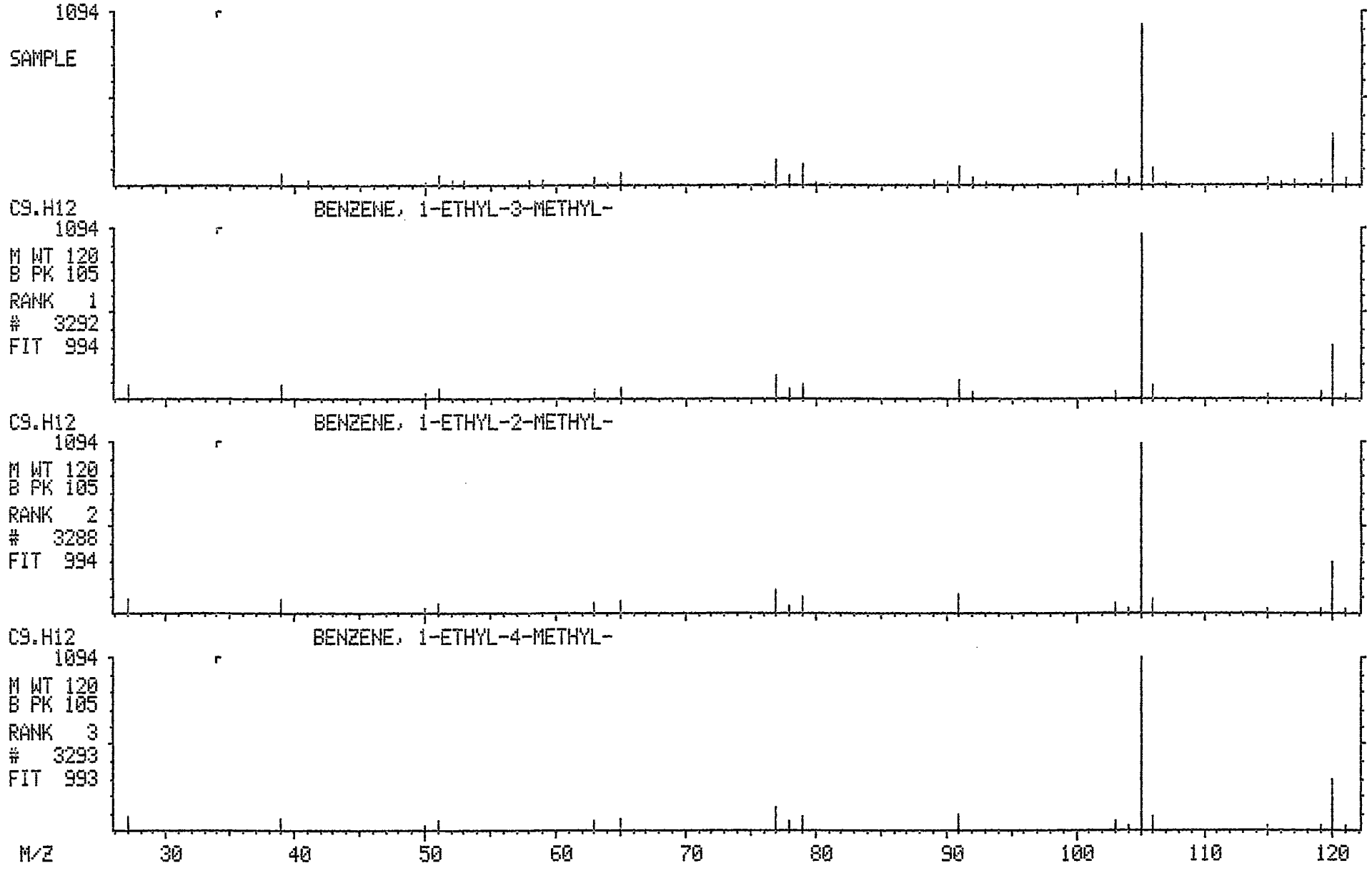
Mass	Inten	1	2	3	4	5
27		82	85	82	84	112
39	79	83	83	79	58	81
41	32				27	
50	19	26	26	27	29	30
51	54	62	65	63	80	62
52	23				27	
53	23					
58	29					
59	28					
63	39	55	52	55	27	58
64	9					
65	72	72	71	72		61
76	10					
77	157	138	140	145	174	144
78	54	51	49	53	74	60
79	123	81	95	85	131	106
80	7					
81	11					
89	23					
90	7					
91	117	118	118	102	56	135
92	43	45				
93	8					
102	15					
103	90	51	54	51	68	70
104	37		26	27	25	32
105	999	1050	1081	1094	1127	863
106	103	90	92	93	96	79
107	4					
115	38	22	25	22		29

117	34					
119	33	40	23	32		90
120	320	334	322	314	277	406
121	38	30	31	30	27	38

MID LIBRARY SEARCH (LIBRARYNB)
11/13/93 20:47:00 ÷ 18:15
SAMPLE: EXQ03DL
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ENHANCED (S 15B 2N 0T)

DATA: EXQ03VR #1095
CALI: EXQ03VR # 3

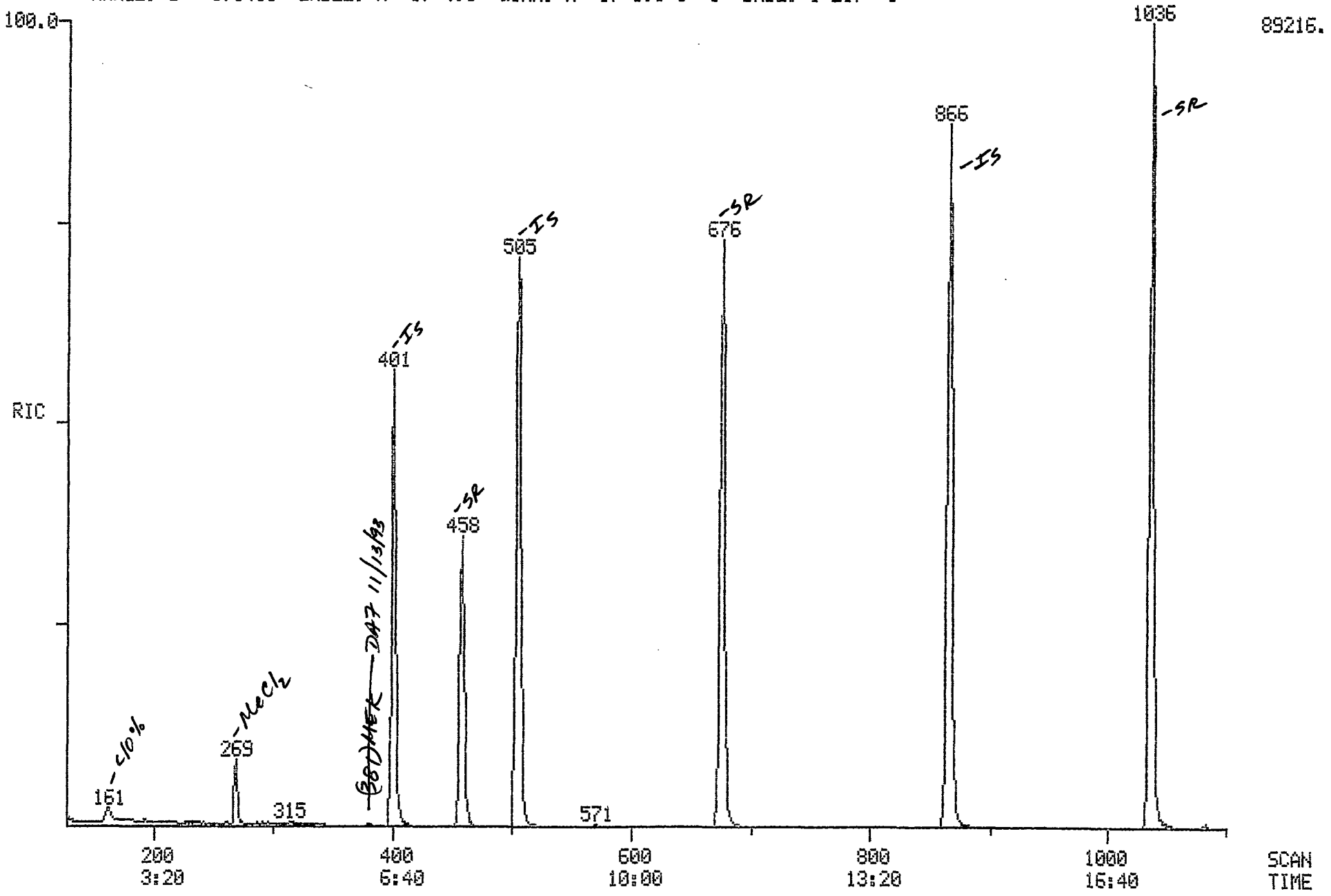
BASE M/Z: 105
RIC: 267776.



RIC
11/12/93 10:54:00
SAMPLE: EX004
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX004VR #1
CALI: EX004VR #3

SCANS 125 TO 1100



Quantitation Report File: EXQ04VR

Data: EXQ04VR.TI
11/12/93 10:54:00
Sample: EXQ04
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

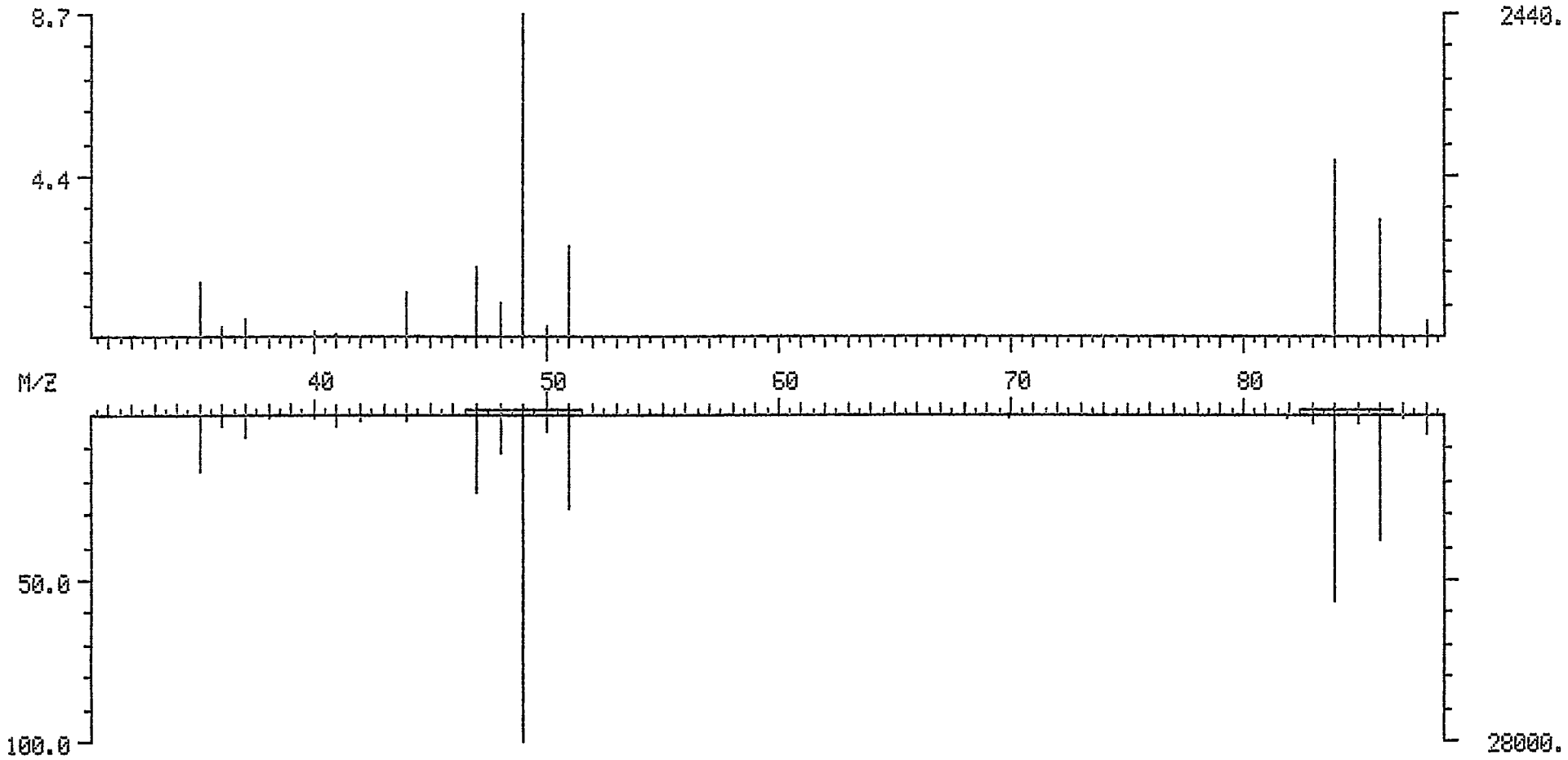
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	27227.	50.000	NG/ML	16.79
2	114	505	8:25	2	1.000	A BB	125480.	50.000	NG/ML	16.79
3	117	866	14:26	3	1.000	A BB	112122.	50.000	NG/ML	16.79
4	65	458	7:38	1	1.142	A BB	55872.	49.688	NG/ML	16.69
5	98	676	11:16	3	0.781	A BB	108841.	48.371	NG/ML	16.25
6	95	1036	17:16	3	1.196	A BB	79778.	44.450	NG/UL	14.93
7	84	269	4:29	1	0.671	A BB	4633.	5.214	NG/ML	1.75

DUAL MASS SPECTRUM
11/12/93 10:54:00 + 4:29
SECOND SPECTRUM
SAMPLE: EXQ04
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ04VR #269
CALI: EXQ04VR #3
DATA: 50VZ1112 #269

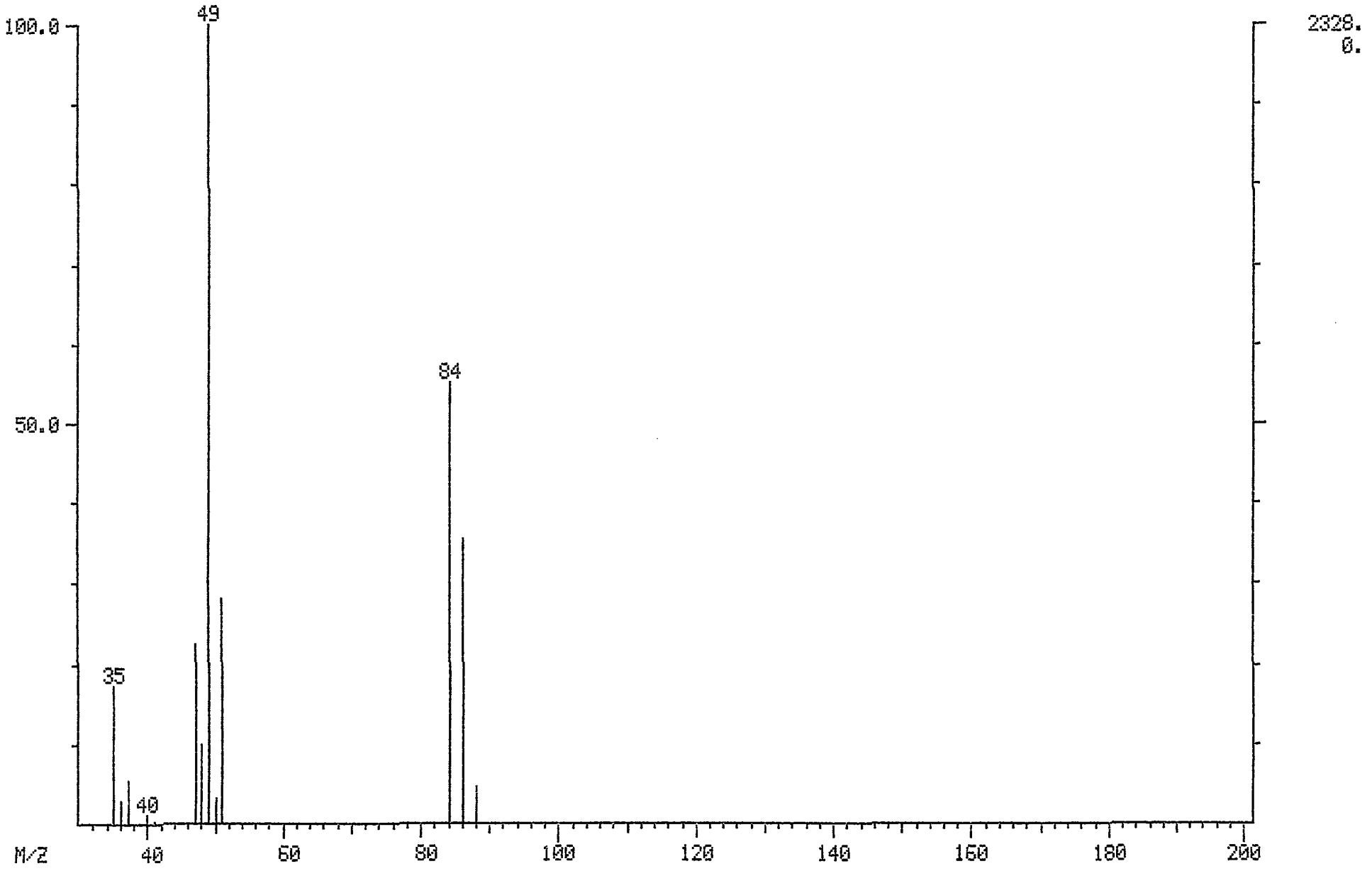
BASE M/Z: 49/ 49
RIC: 7328./ 86400.



MASS SPECTRUM
11/12/93 10:54:00 + 4:29
SAMPLE: EXQ04
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ04VR #269
CALI: EXQ04VR #3

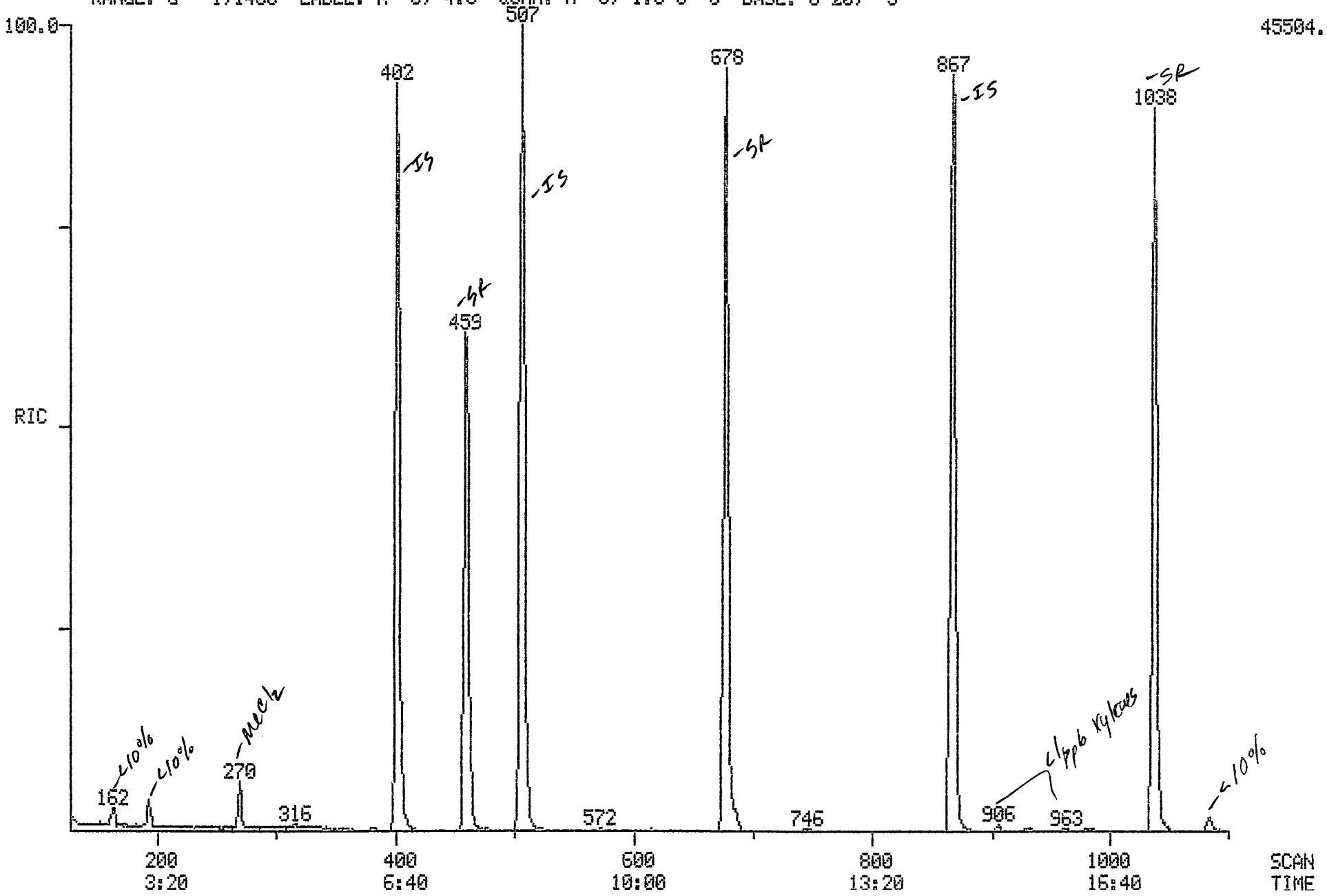
BASE M/Z: 49
RIC: 6648.



RIC
11/11/93 18:39:00
SAMPLE: EXQ05
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ05V #1
CALI: EXQ05V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ05V

Data: EXQ05V.TI
11/11/93 18:39:00
Sample: EXQ05
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

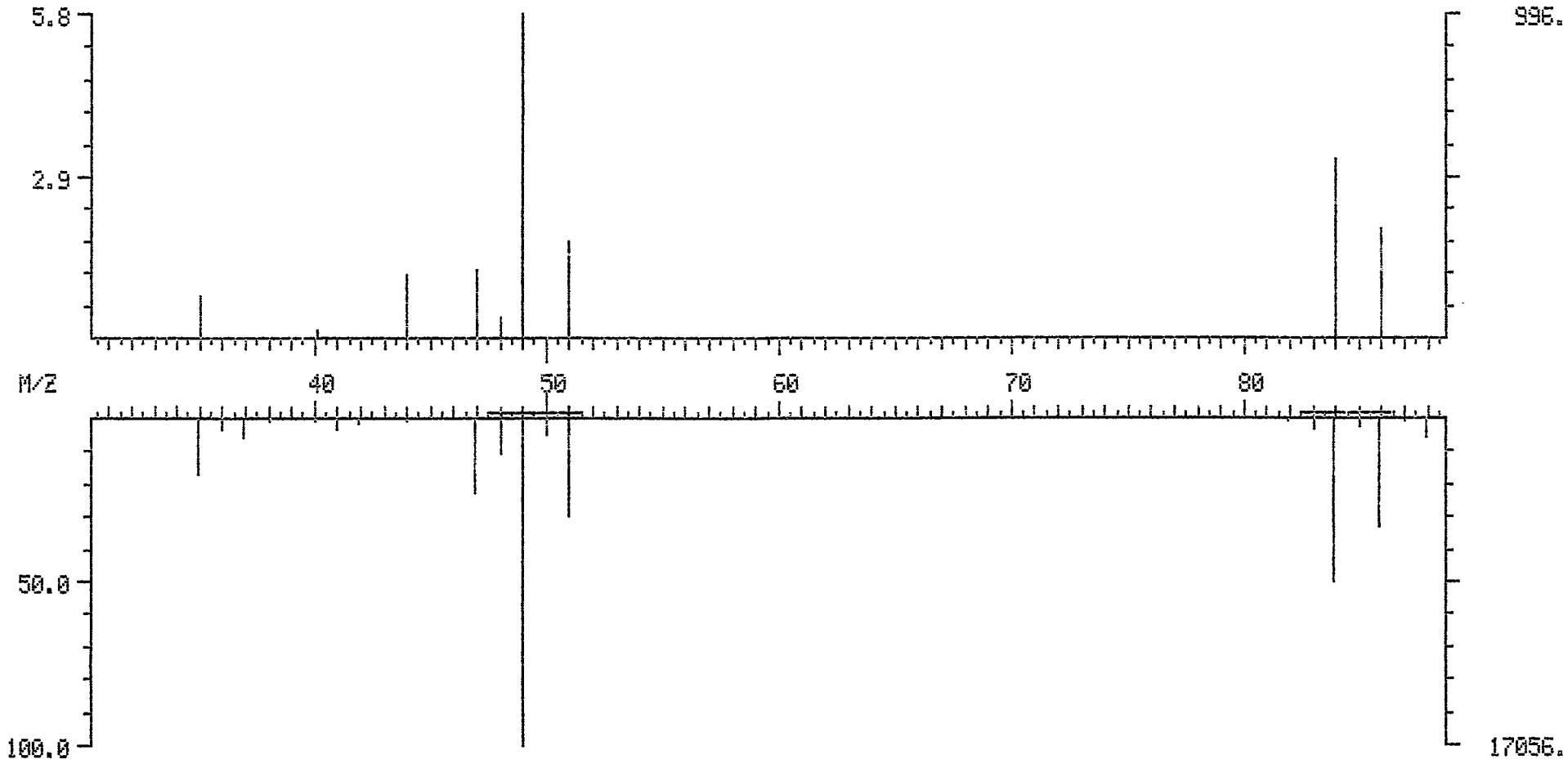
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	22589.	50.000	NG/ML	17.15
2	114	507	8:27	2	1.000	A BB	90161.	50.000	NG/ML	17.15
3	117	867	14:27	3	1.000	A BB	60608.	50.000	NG/ML	17.15
4	65	460	7:40	1	1.144	A BB	50087.	46.578	NG/ML	15.98
5	98	678	11:18	3	0.782	A BB	69979.	56.102	NG/ML	19.24
6	95	1038	17:18	3	1.197	A BB	38198.	36.131	NG/UL	12.39
7	84	270	4:30	1	0.672	A BB	1932.	2.719	NG/ML	0.93

DUAL MASS SPECTRUM
11/11/93 18:39:00 + 4:30
SECOND SPECTRUM
SAMPLE: EXQ05
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ05V #270
CALI: EXQ05V #3
DATA: 50VZ1111Z #270

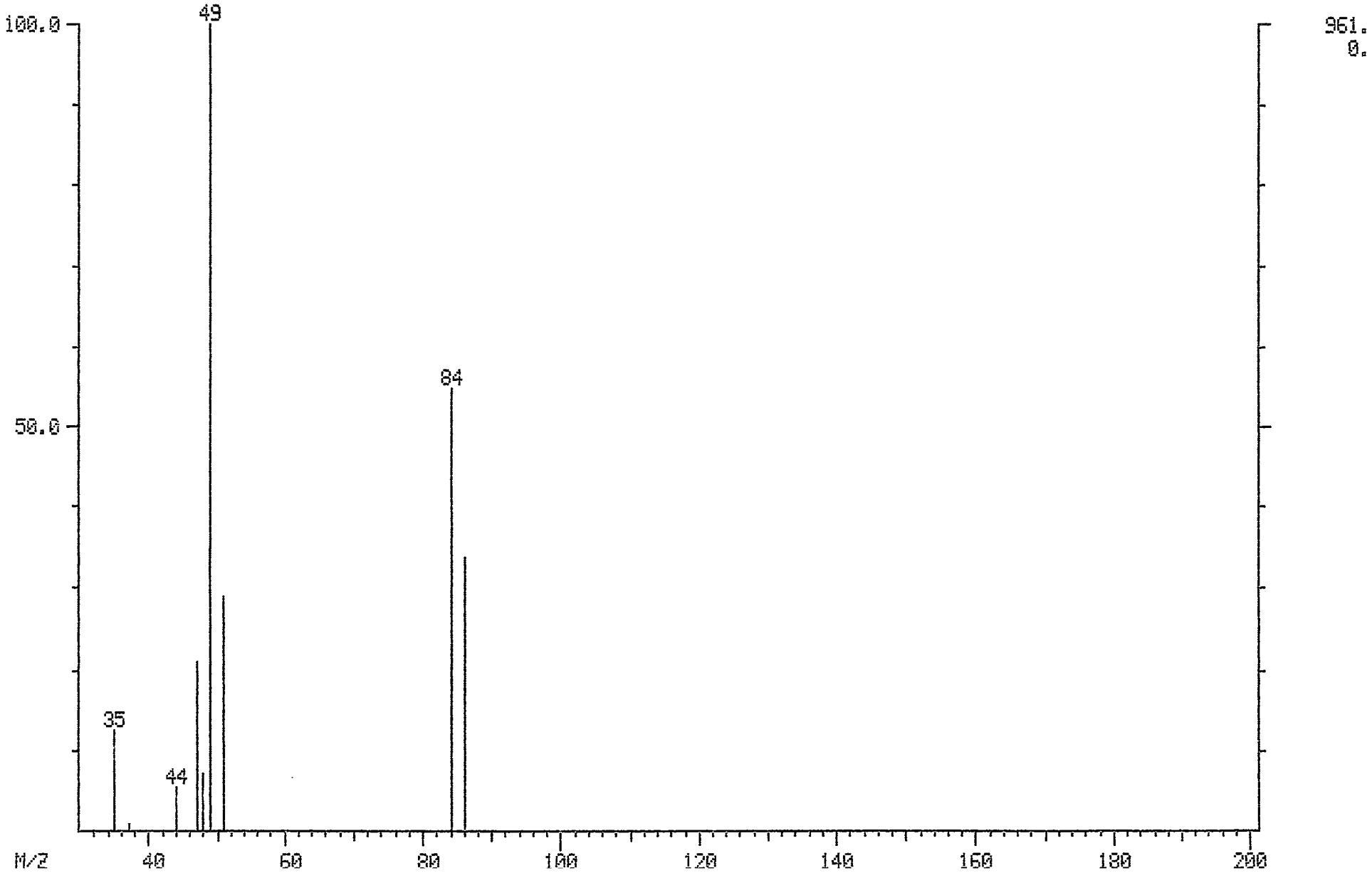
BASE M/Z: 49/ 49
RIC: 2812./ 50560.



MASS SPECTRUM
11/11/93 18:39:00 + 4:30
SAMPLE: EXQ05
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ05V #270
CALI: EXQ05V #3

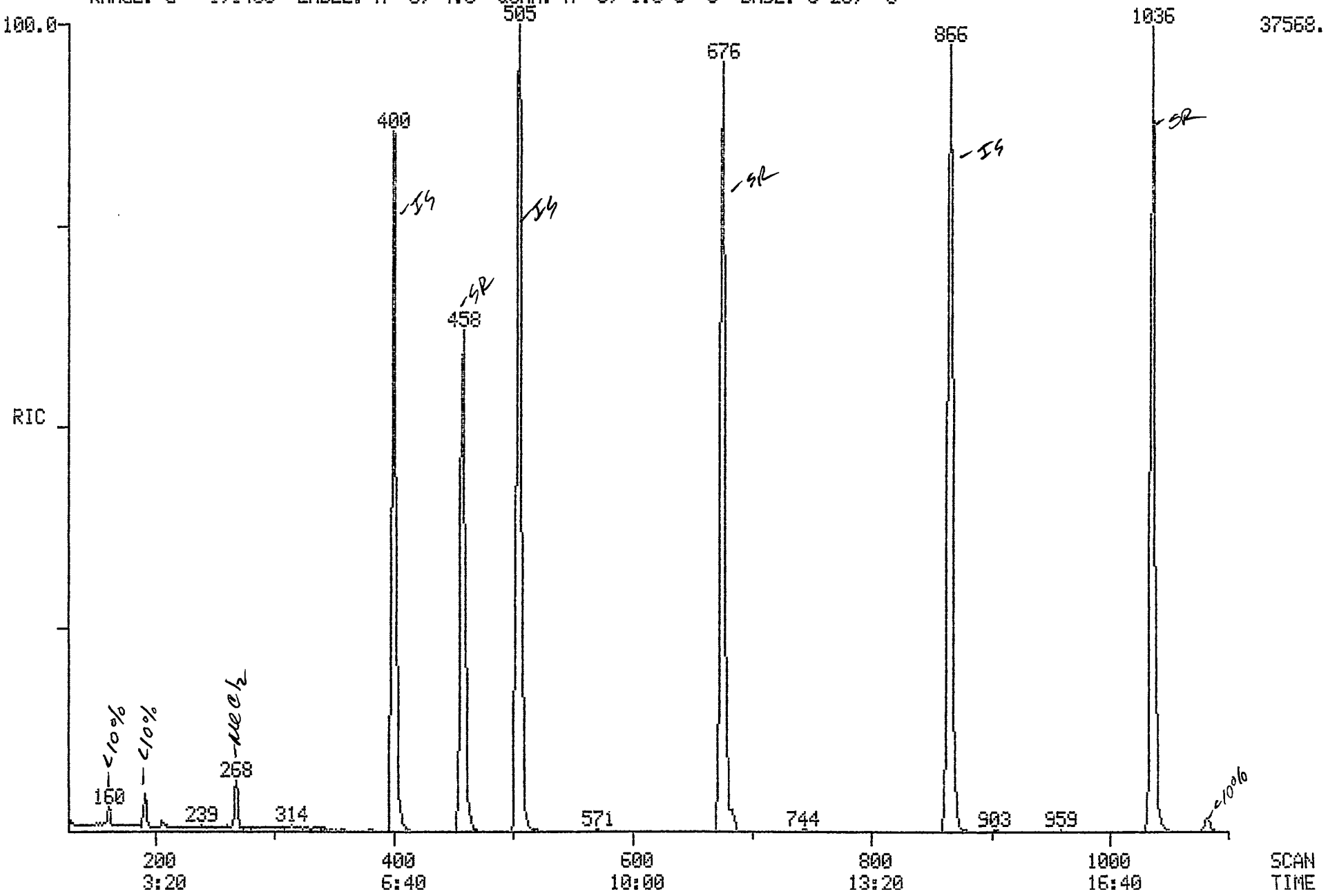
BASE M/Z: 49
RIC: 2540.



RIC
11/11/93 19:11:00
SAMPLE: EXQ06
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ06V #1
CALI: EXQ06V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ06V

Data: EXQ06V.TI
11/11/93 19:11:00
Sample: EXQ06
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

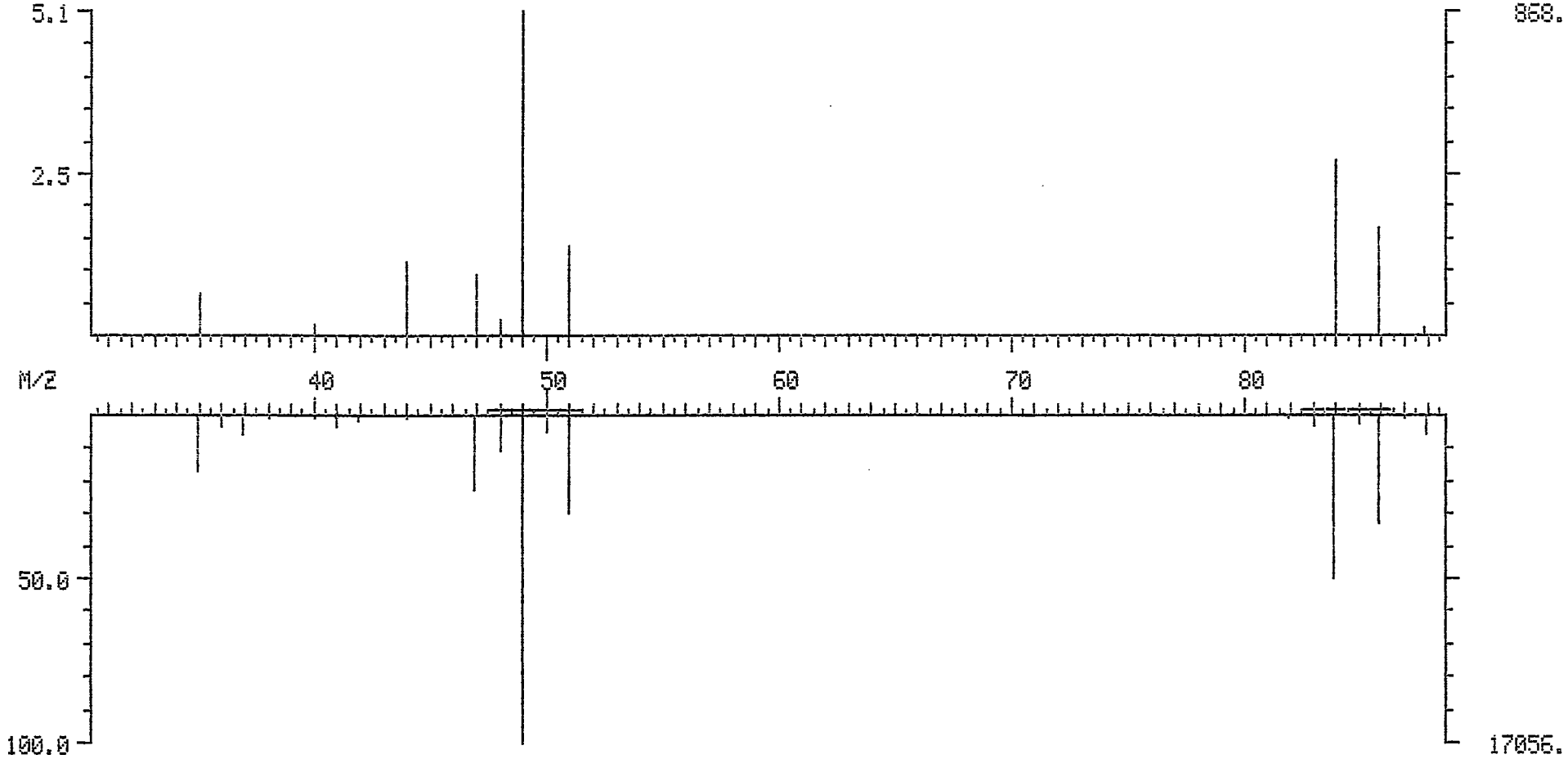
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	17729.	50.000	NG/ML	17.23
2	114	505	8:25	2	1.000	A BB	73727.	50.000	NG/ML	17.23
3	117	865	14:25	3	1.000	A BB	53692.	50.000	NG/ML	17.23
4	65	458	7:38	1	1.145	A BB	40433.	47.907	NG/ML	16.51
5	98	676	11:16	3	0.782	A BB	58164.	52.637	NG/ML	18.14
6	95	1036	17:16	3	1.198	A BB	34580.	36.922	NG/UL	12.73
7	84	268	4:28	1	0.670	A BB	1484.	2.661	NG/ML	0.92

DUAL MASS SPECTRUM
11/11/93 19:11:00 + 4:28
SECOND SPECTRUM
SAMPLE: EX006
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EX006V #268
CALI: EX006V #3
DATA: 50VZ1111Z #270

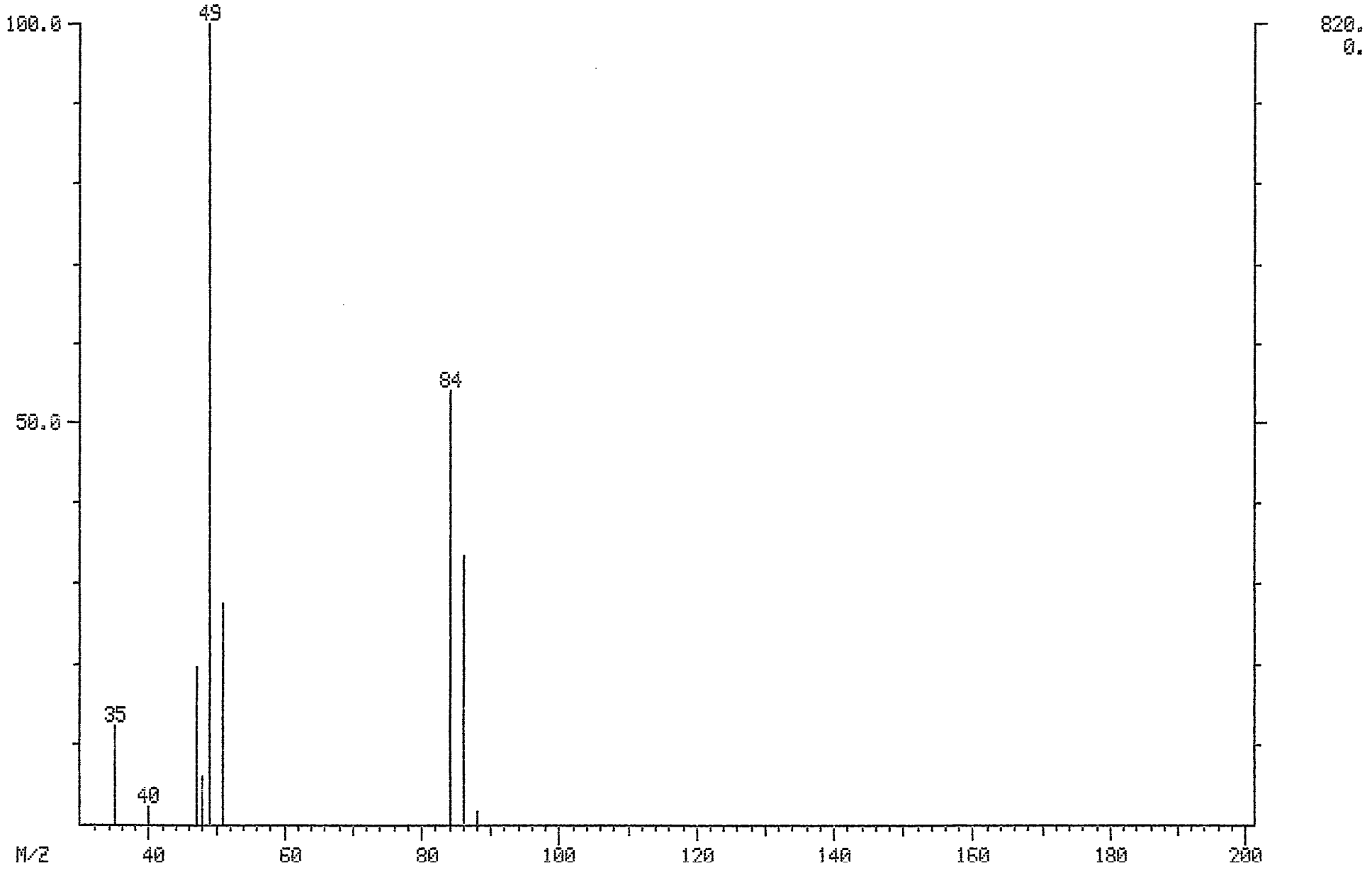
BASE M/Z: 49/ 49
RIC: 2424./ 50560.



MASS SPECTRUM
11/11/93 19:11:00 + 4:28
SAMPLE: EXQ06
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ06V #268
CALI: EXQ06V #3

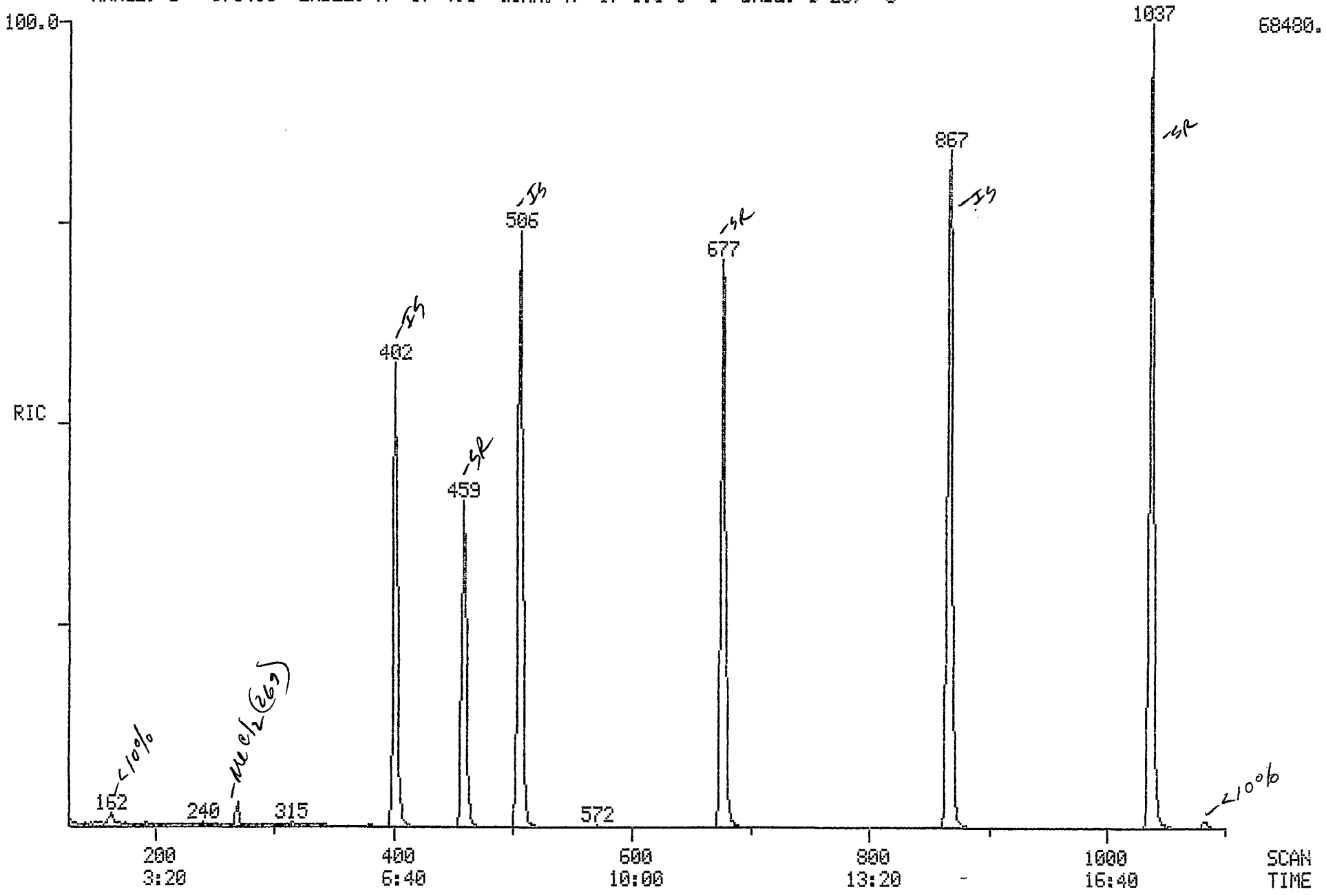
BASE M/Z: 49
RIC: 2112.



RIC
11/11/93 19:45:00
SAMPLE: EXQ07
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ07V #1
CALI: EXQ07V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ07V

Data: EXQ07V.TI
11/11/93 19:45:00
Sample: EXQ07
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

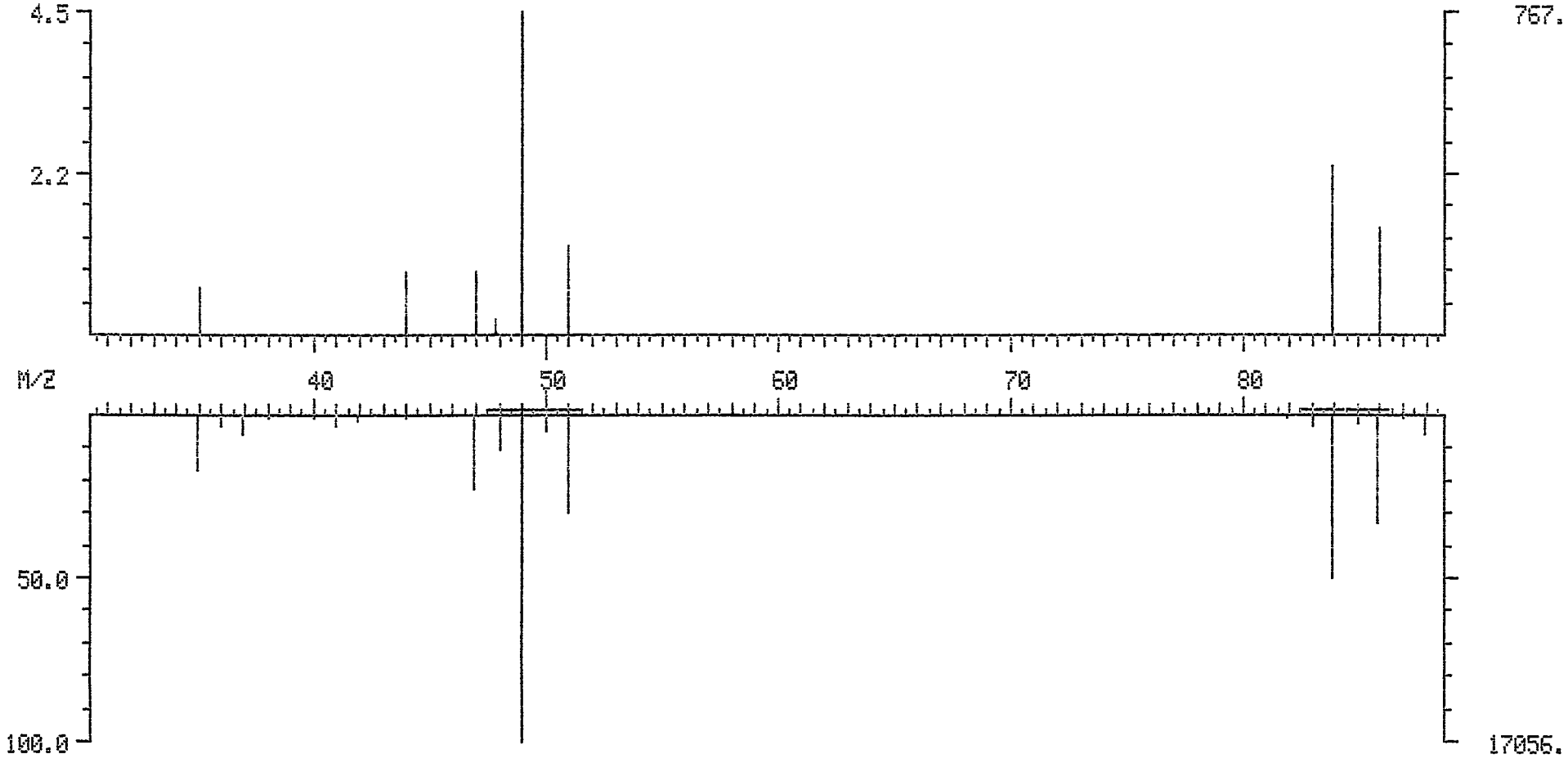
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	21179.	50.000	NG/ML	17.33
2	114	506	8:26	2	1.000	A BB	97810.	50.000	NG/ML	17.33
3	117	867	14:27	3	1.000	A BB	81549.	50.000	NG/ML	17.33
4	65	459	7:39	1	1.145	A BB	47343.	46.956	NG/ML	16.27
5	98	677	11:17	3	0.781	A BB	78414.	46.722	NG/ML	16.19
6	95	1037	17:17	3	1.196	A BB	61111.	42.961	NG/UL	14.89
7	84	269	4:29	1	0.671	A BB	1289.	1.935	NG/ML	0.67

DUAL MASS SPECTRUM
11/11/93 19:45:00 + 4:29
SECOND SPECTRUM
SAMPLE: EXQ07
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ07V #269
CALI: EXQ07V #3
DATA: 50VZ1111Z #270

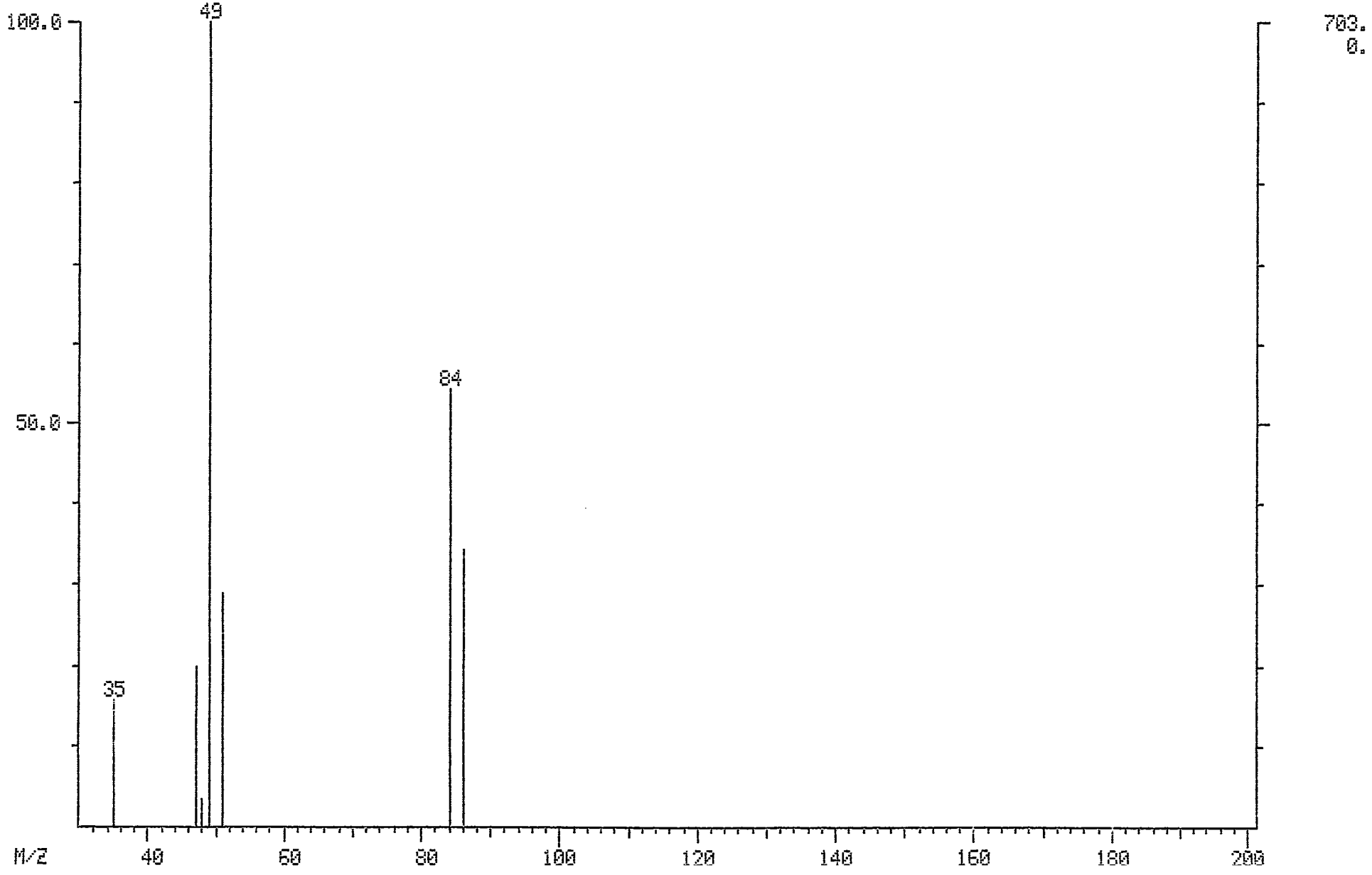
BASE M/Z: 49/ 49
RIC: 2080./ 50560.



MASS SPECTRUM
11/11/93 19:45:00 + 4:29
SAMPLE: EXQ07
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ07V #269
CALI: EXQ07V #3

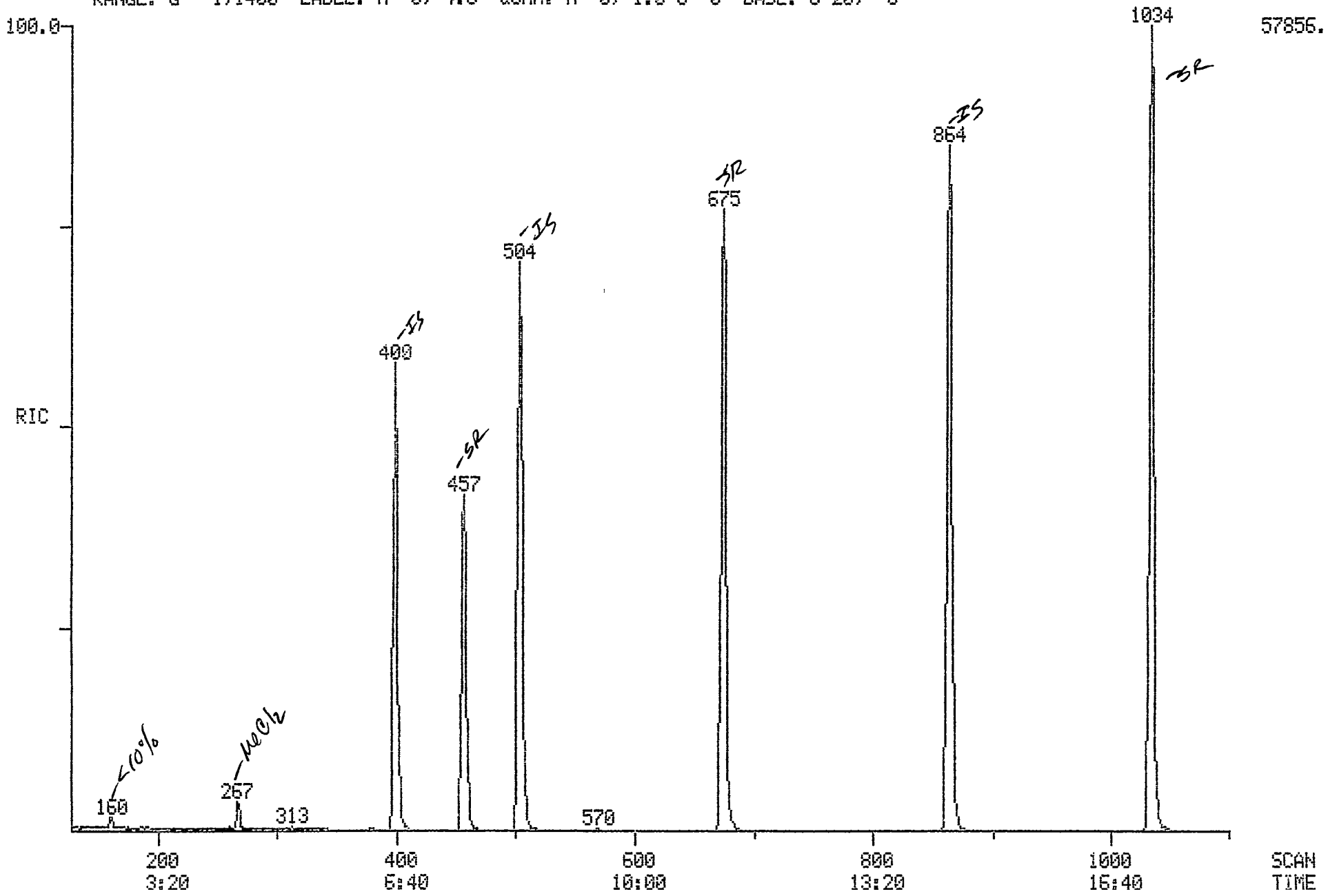
BASE M/Z: 49
RIC: 1802.



RIC
11/11/93 20:18:00
SAMPLE: EXQ08
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ08V #1
CALI: EXQ08V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ08V

Data: EXQ08V.TI
11/11/93 20:18:00
Sample: EXQ08
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

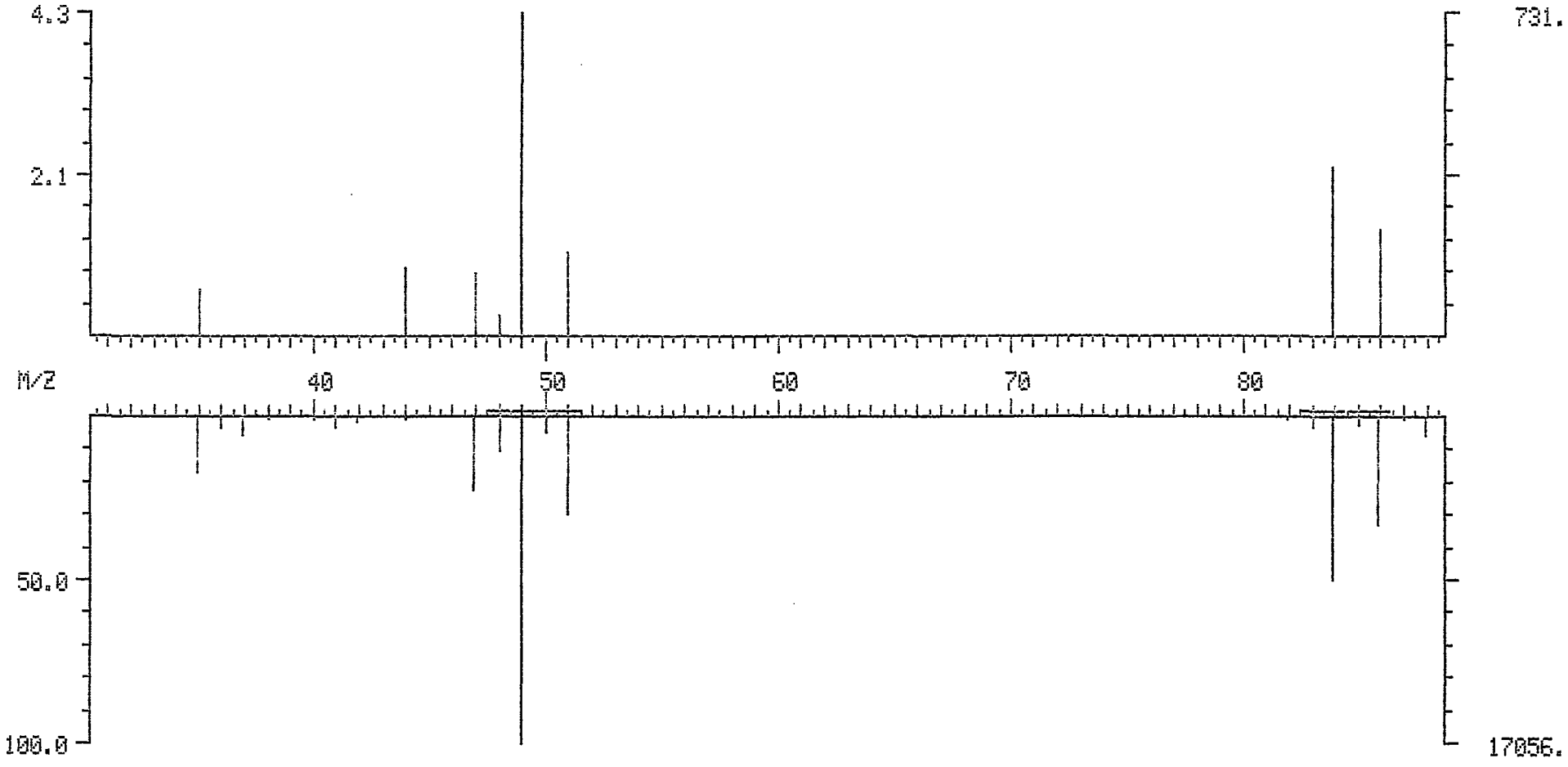
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	18260.	50.000	NG/ML	16.98
2	114	504	8:24	2	1.000	A BB	79476.	50.000	NG/ML	16.98
3	117	864	14:24	3	1.000	A BB	68875.	50.000	NG/ML	16.98
4	65	457	7:37	1	1.142	A BB	41413.	47.641	NG/ML	16.18
5	98	675	11:15	3	0.781	A BB	71773.	50.634	NG/ML	17.20
6	95	1034	17:14	3	1.197	A BB	52763.	43.918	NG/UL	14.92
7	84	267	4:27	1	0.667	A BB	1283.	2.233	NG/ML	0.76

DUAL MASS SPECTRUM
11/11/93 20:18:00 + 4:27
SECOND SPECTRUM
SAMPLE: EX008
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EX008V #267
CALI: EX008V #3
DATA: 50VZ1111Z #270

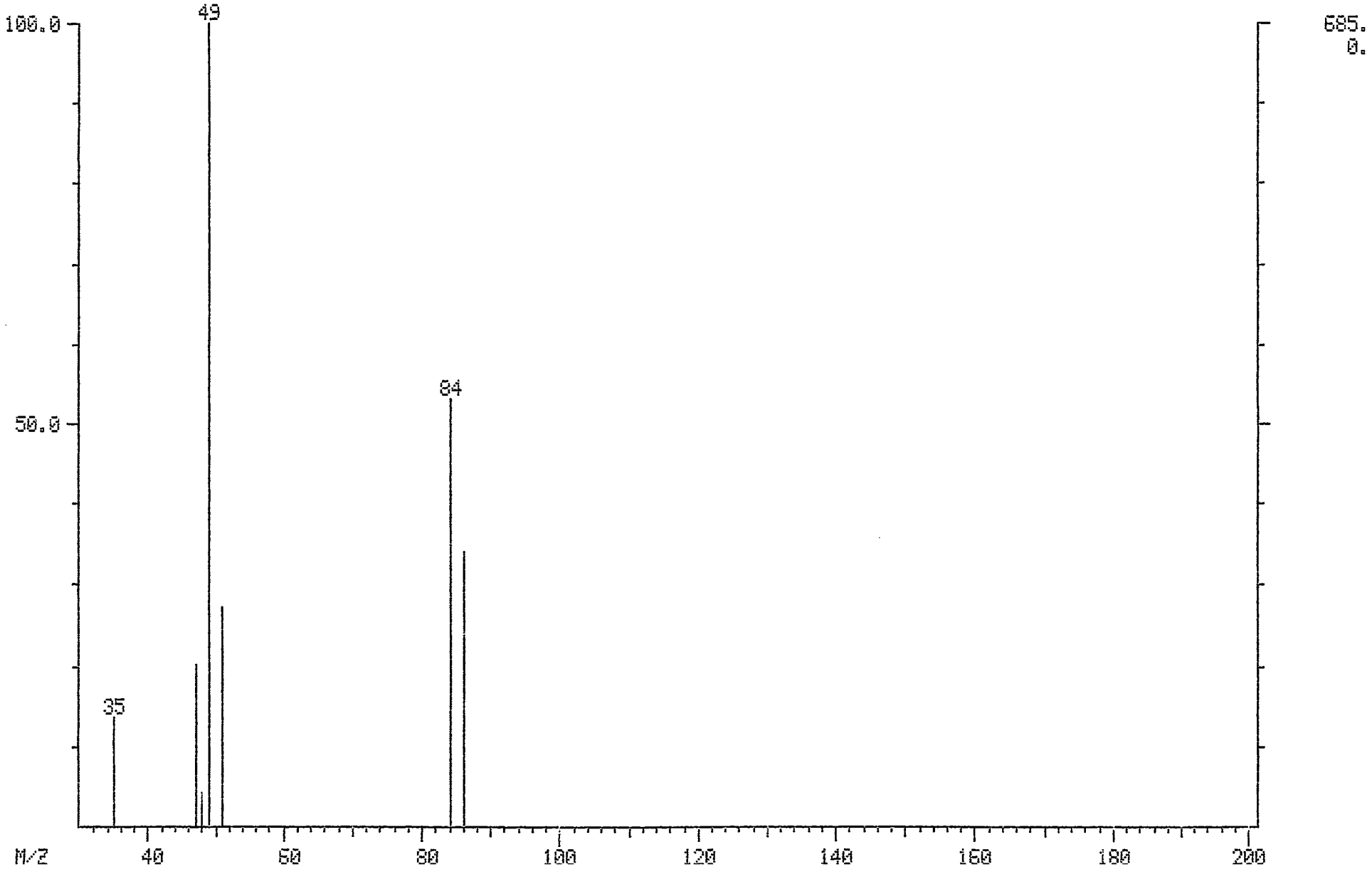
BASE M/Z: 49/ 49
RIC: 2002./ 50560.



MASS SPECTRUM
11/11/93 20:18:00 + 4:27
SAMPLE: EXQ08
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ08V #267
CALI: EXQ08V #3

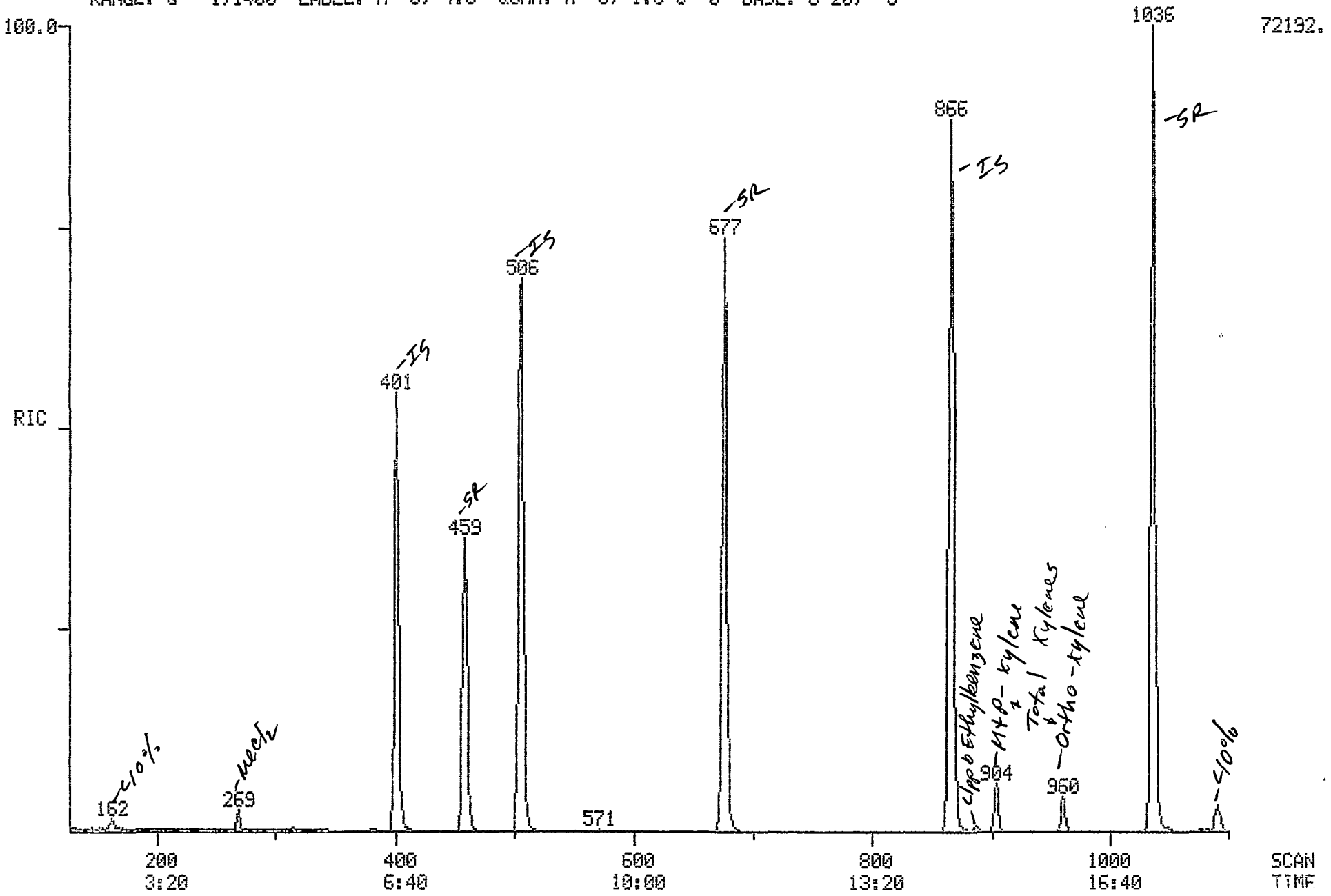
BASE M/Z: 49
RIC: 1732.



RIC
11/11/93 20:51:00
SAMPLE: EX009
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX009V #1
CALI: EX009V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ09V

Data: EXQ09V.TI
11/11/93 20:51:00
Sample: EXQ09
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C250 TOTAL XYLENES

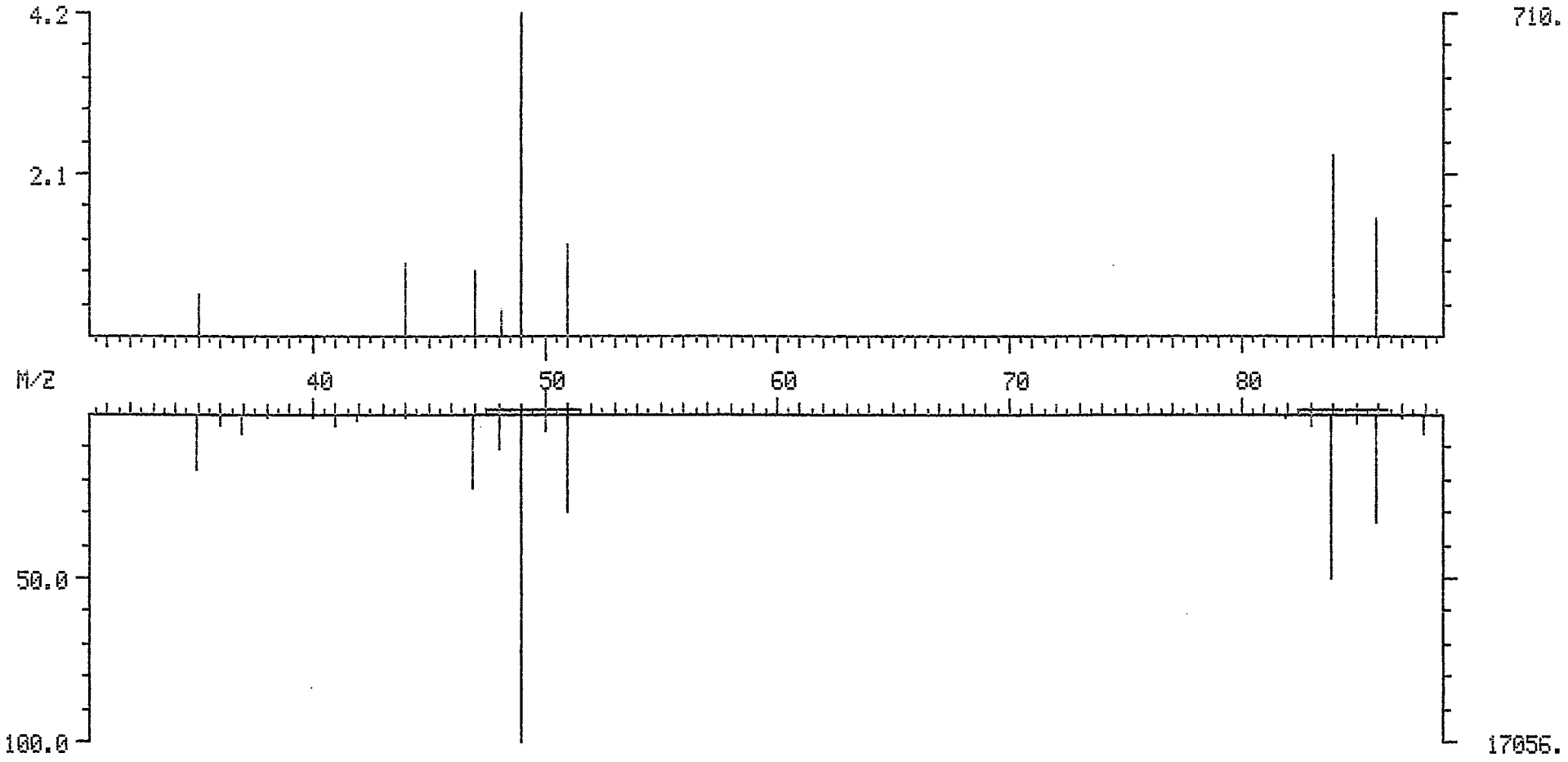
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	21414.	50.000	NG/ML	17.09
2	114	506	8:26	2	1.000	A BB	98412.	50.000	NG/ML	17.09
3	117	866	14:26	3	1.000	A BB	87337.	50.000	NG/ML	17.09
4	65	459	7:39	1	1.145	A BB	45718.	44.847	NG/ML	15.33
5	98	677	11:17	3	0.782	A BB	85534.	47.587	NG/ML	16.27
6	95	1036	17:16	3	1.196	A BB	65549.	43.027	NG/UL	14.71
7	84	269	4:29	1	0.671	A BB	1243.	1.845	NG/ML	0.63
8	106	904	15:04	3	1.044	M XX	6711.	5.194	NG/ML	1.78

DAF
11/12/93

DUAL MASS SPECTRUM
11/11/93 20:51:00 + 4:29
SECOND SPECTRUM
SAMPLE: EXQ09
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ09V #269
CALI: EXQ09V #3
DATA: 50VZ1111Z #270

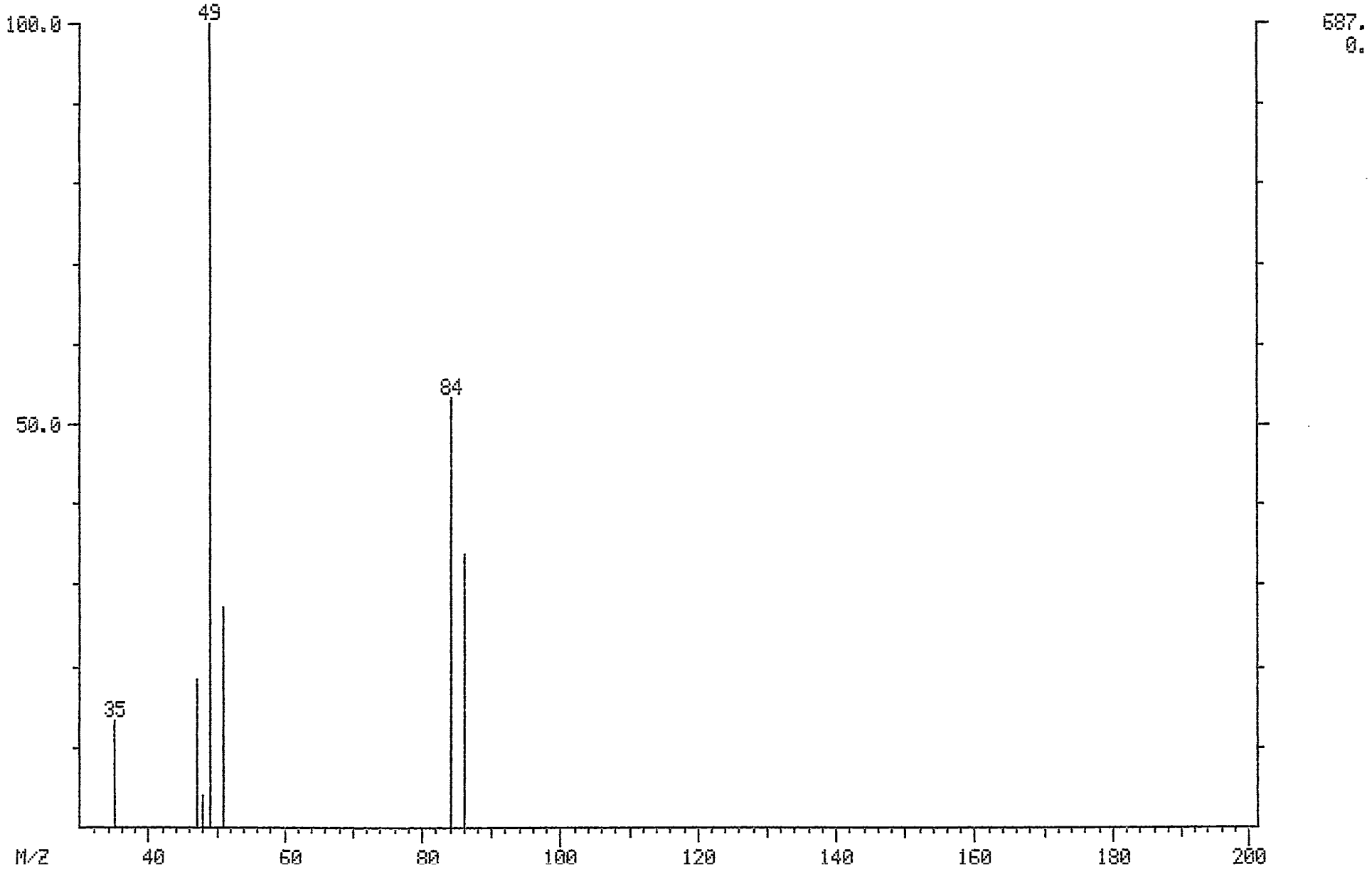
BASE M/Z: 49/ 49
RIC: 2014./ 50560.



MASS SPECTRUM
11/11/93 20:51:00 + 4:29
SAMPLE: EX009
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EX009V #269
CALI: EX009V #3

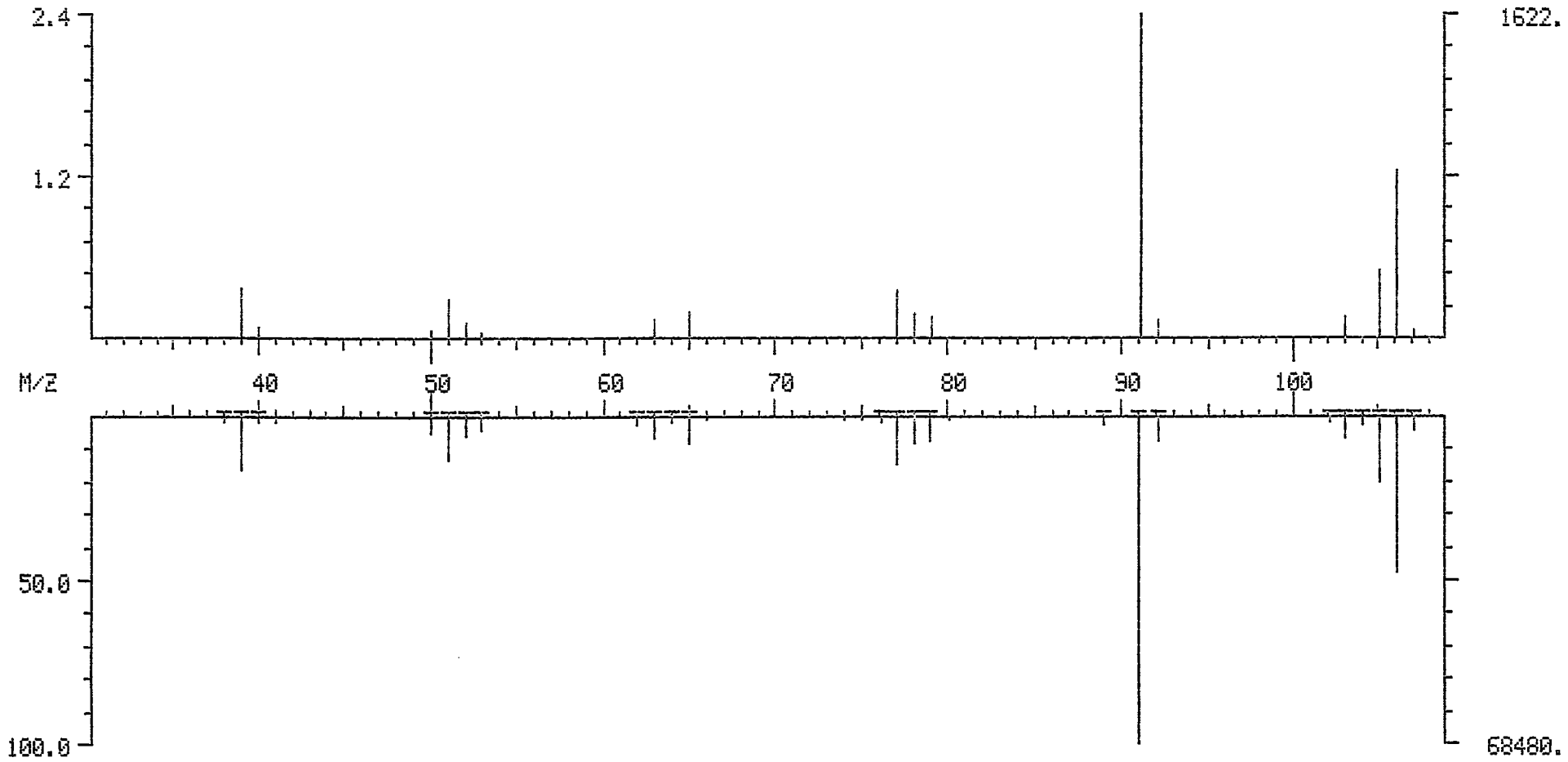
BASE M/Z: 49
RIC: 1722.



DUAL MASS SPECTRUM
11/11/93 20:51:00 + 15:04
SECOND SPECTRUM
SAMPLE: EXQ09
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 117 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EX009V #904
CALI: EX009V #3
DATA: 50VZ1111Z #905

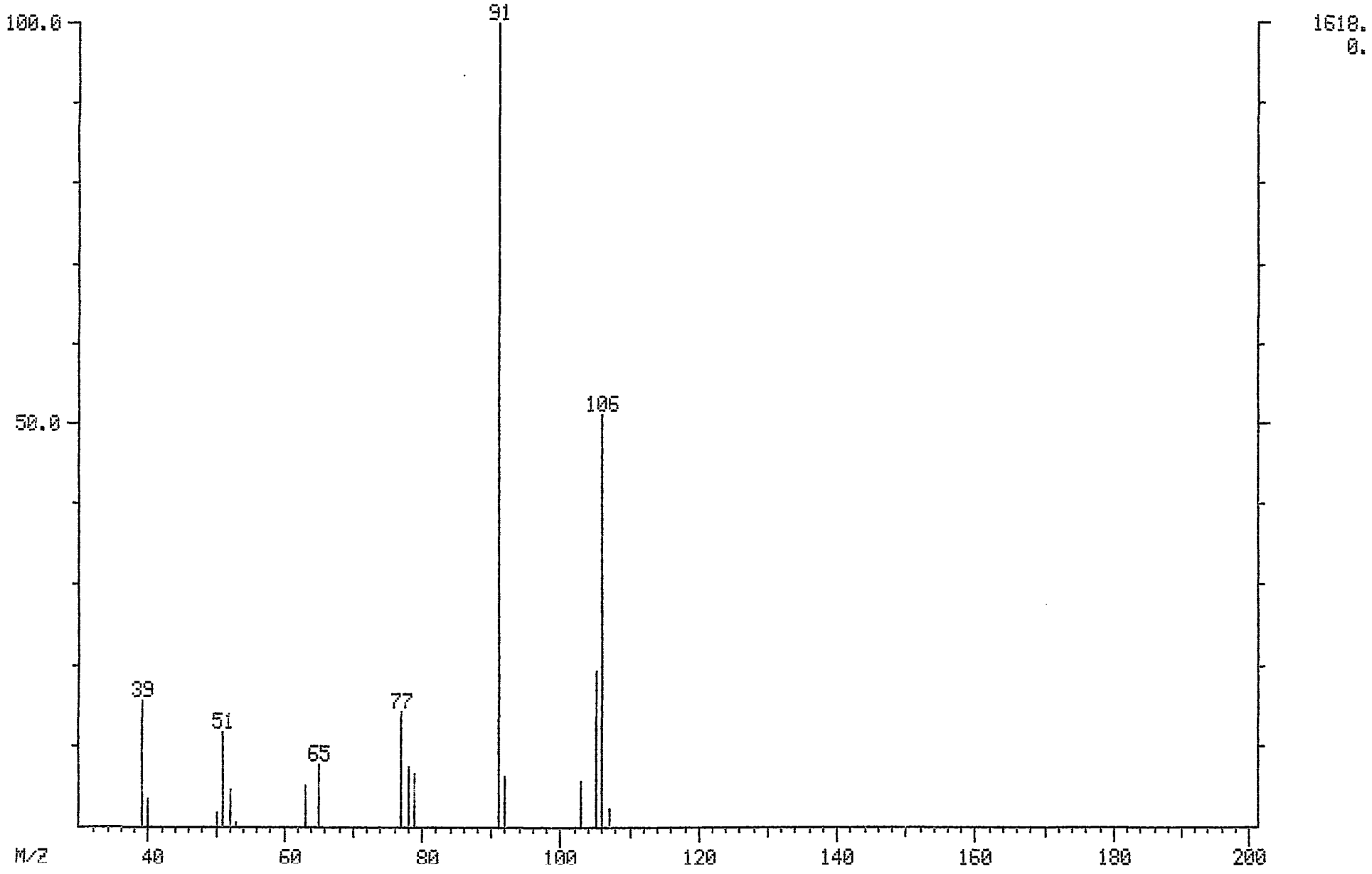
BASE M/Z: 91/ 91
RIC: 4344./ 202752.



MASS SPECTRUM
11/11/93 20:51:00 + 15:04
SAMPLE: EXQ09
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 117 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EXQ09V #904
CALI: EXQ09V #3

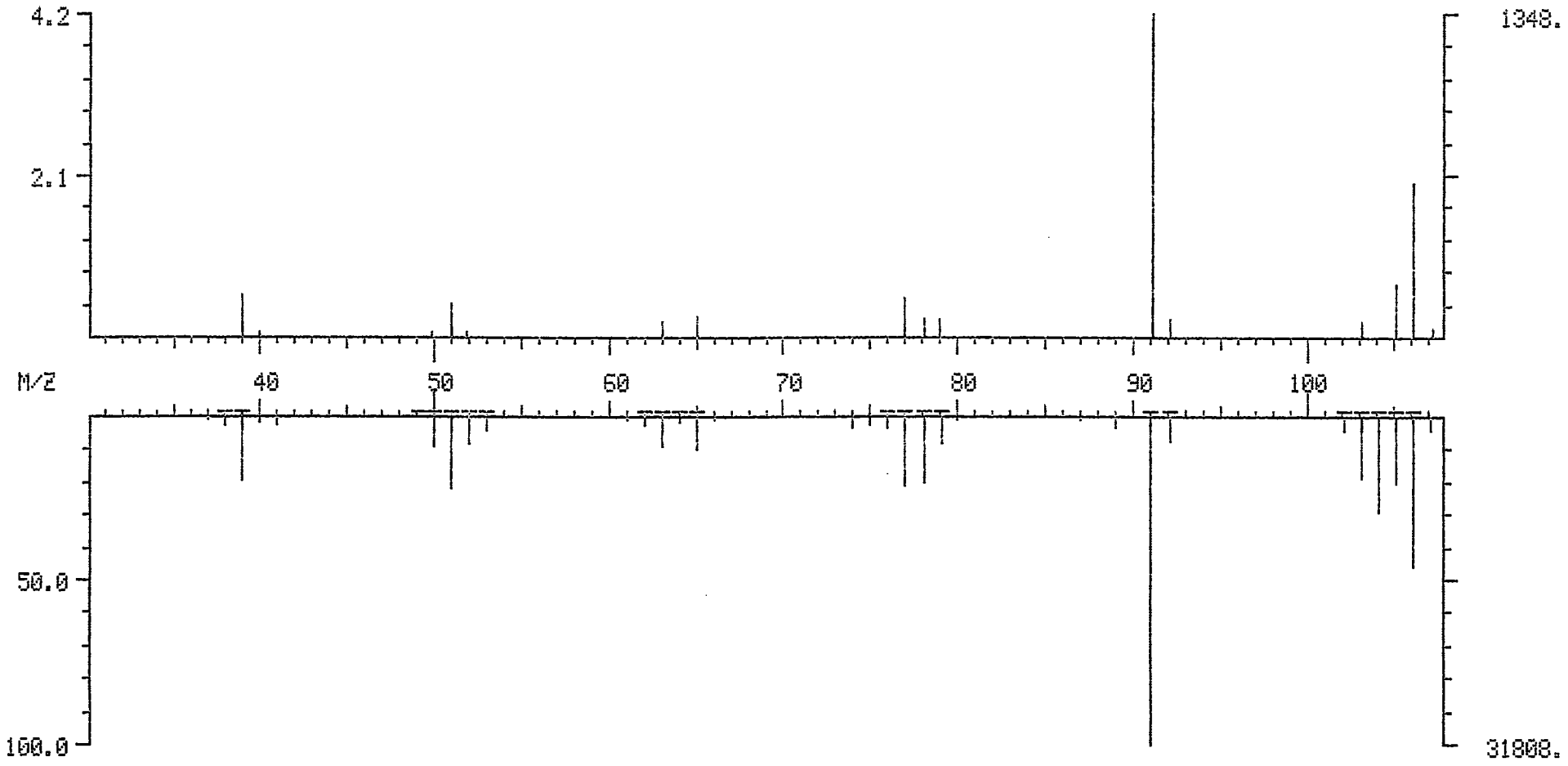
BASE M/Z: 91
RIC: 4264.



DUAL MASS SPECTRUM
11/11/93 20:51:00 + 16:00
SECOND SPECTRUM
SAMPLE: EX009
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 122 DEG. C
NAME: C250 TOTAL XYLENES

DATA: EX009V #960
CALI: EX009V #3
DATA: 50VZ1111Z #961

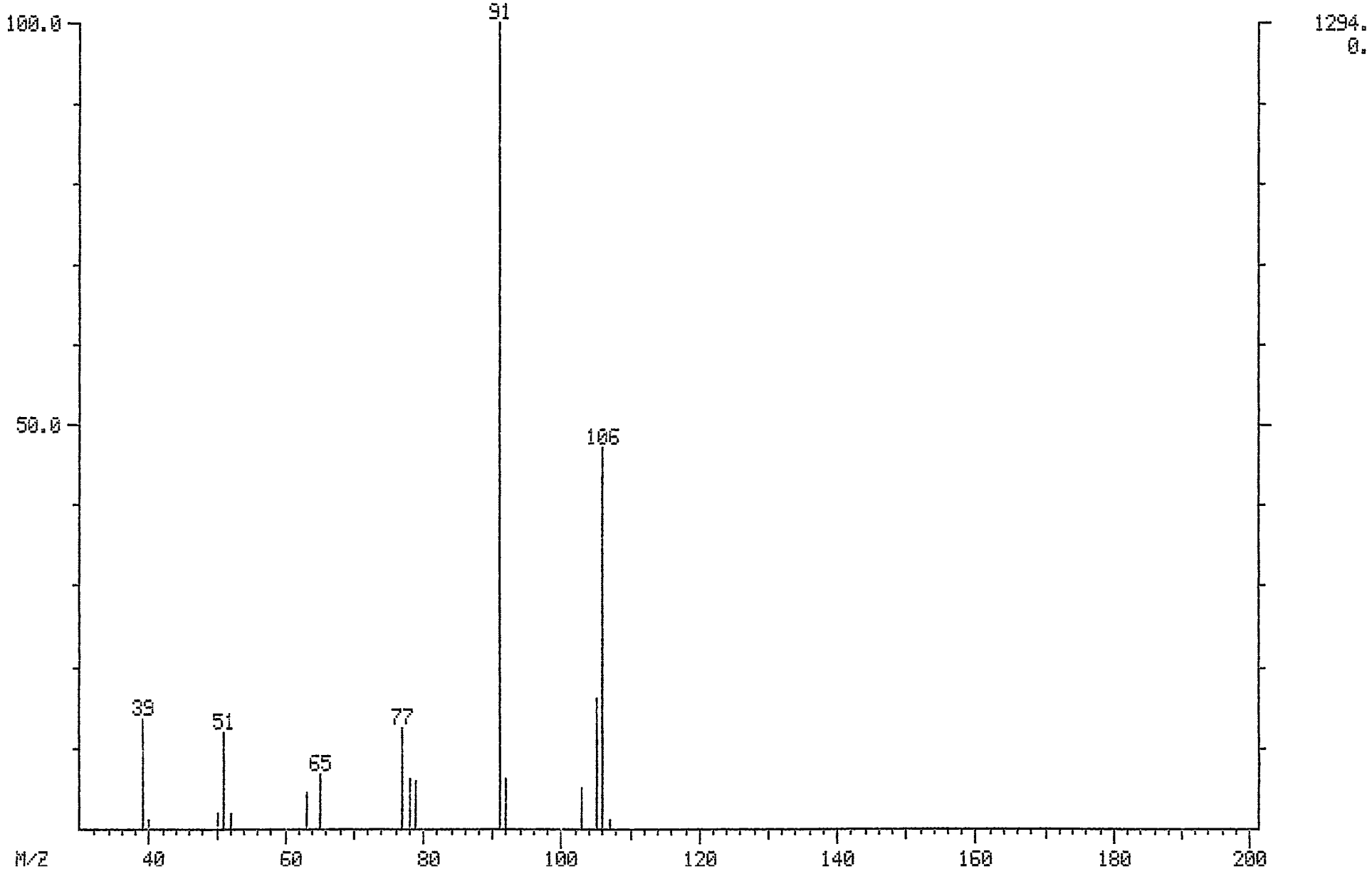
BASE M/Z: 91/ 91
RIC: 3224./ 123136.



MASS SPECTRUM
11/11/93 20:51:00 + 16:00
SAMPLE: EX009
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 122 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C250 TOTAL XYLENES

DATA: EX009V #960
CALI: EX009V #3

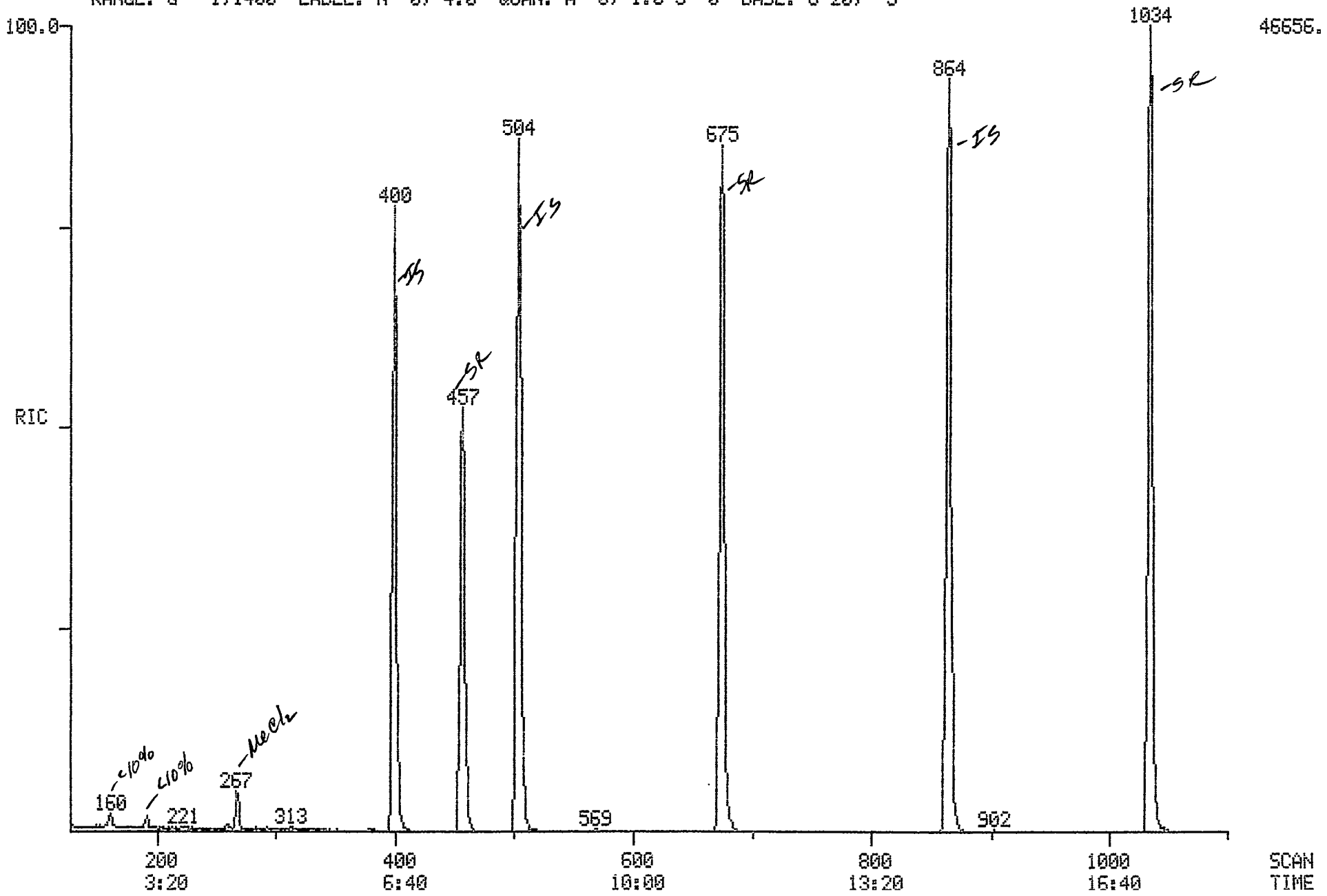
BASE M/Z: 91
RIC: 3140.



RIC
11/11/93 21:25:00
SAMPLE: EXQ10
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ10V #1
CALI: EXQ10V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ10V

Data: EXQ10V.TI
11/11/93 21:25:00
Sample: EXQ10
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

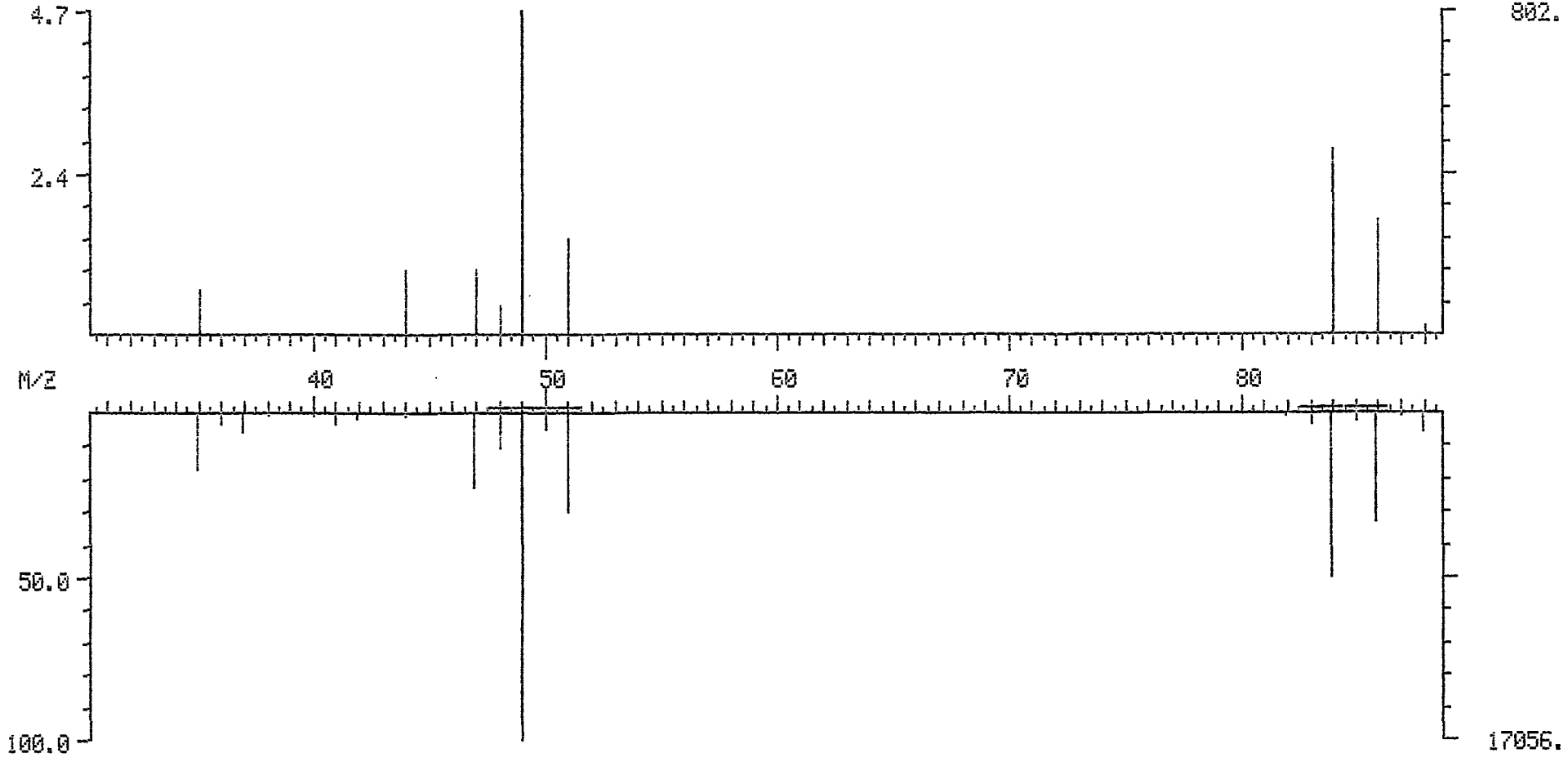
X1

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	19088.	50.000	NG/ML	17.22
2	114	504	8:24	2	1.000	A BB	79160.	50.000	NG/ML	17.22
3	117	864	14:24	3	1.000	A BB	60916.	50.000	NG/ML	17.22
4	65	457	7:37	1	1.142	A BB	42328.	46.581	NG/ML	16.04
5	98	675	11:15	3	0.781	A BB	64244.	51.245	NG/ML	17.65
6	95	1034	17:14	3	1.197	A BB	42491.	39.989	NG/UL	13.77
7	84	267	4:27	1	0.667	A BB	1510.	2.515	NG/ML	0.87

DUAL MASS SPECTRUM
11/11/93 21:25:00 + 4:27
SECOND SPECTRUM
SAMPLE: EXQ10
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ10V #267
CALI: EXQ10V #3
DATA: 50VZ1111Z #270

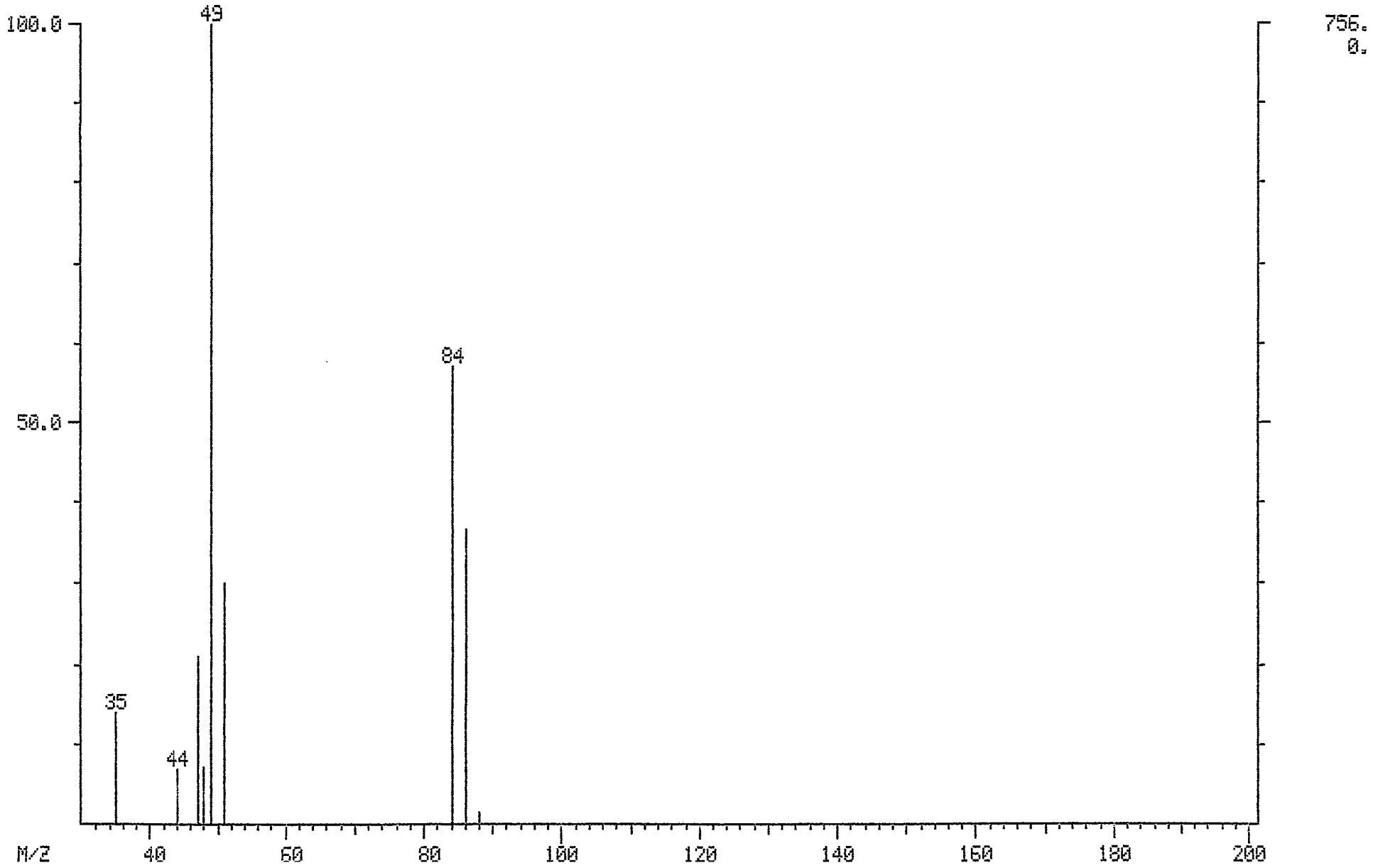
BASE M/Z: 49/ 49
RIC: 2304./ 50560.



MASS SPECTRUM
11/11/93 21:25:00 + 4:27
SAMPLE: EXQ10
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ10V #267
CALI: EXQ10V #3

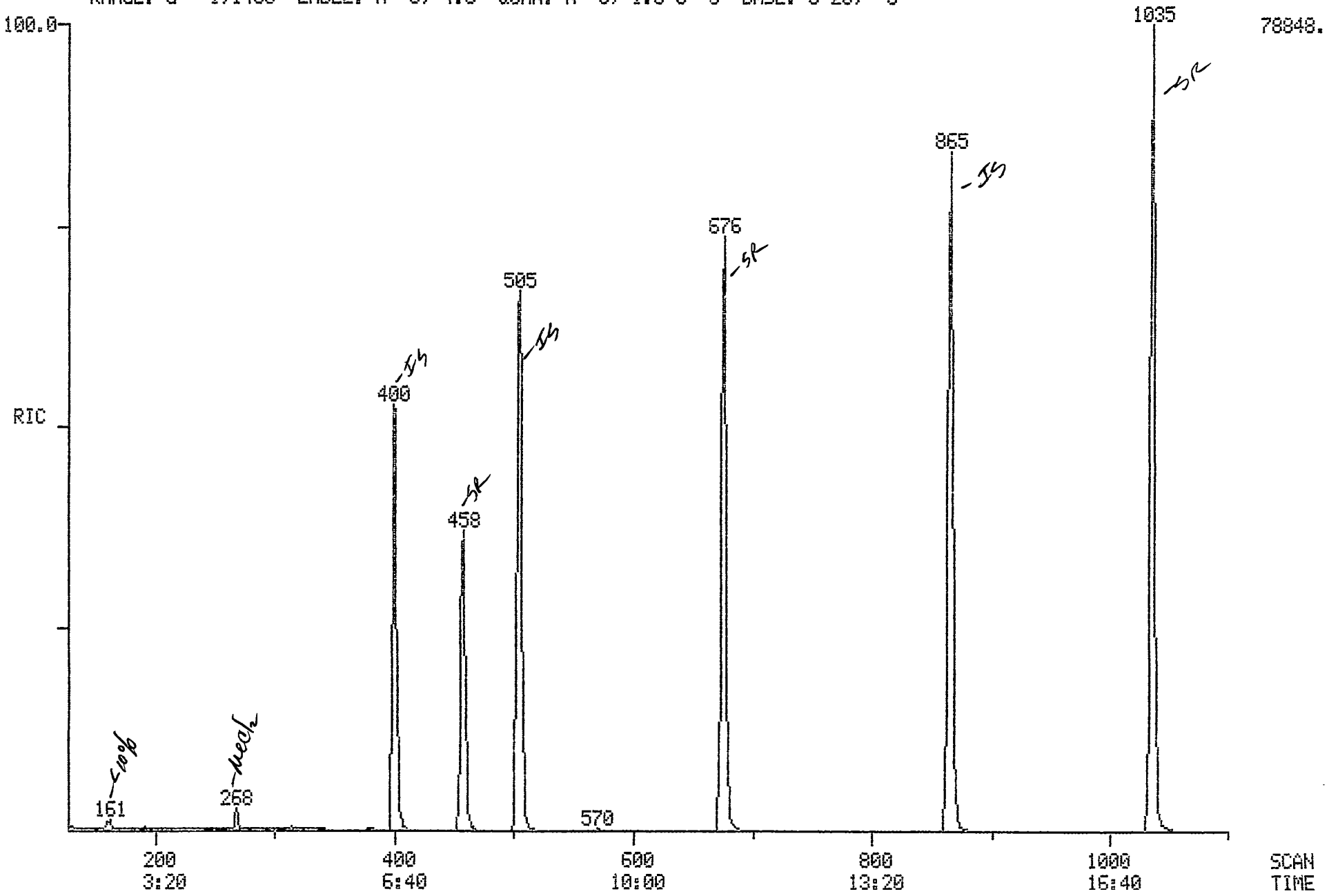
BASE M/Z: 49
RIC: 2076.



RIC
11/11/93 21:58:00
SAMPLE: EXQ11
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ11V #1
CALI: EXQ11V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ11V

Data: EXQ11V.TI
11/11/93 21:58:00
Sample: EXQ11
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

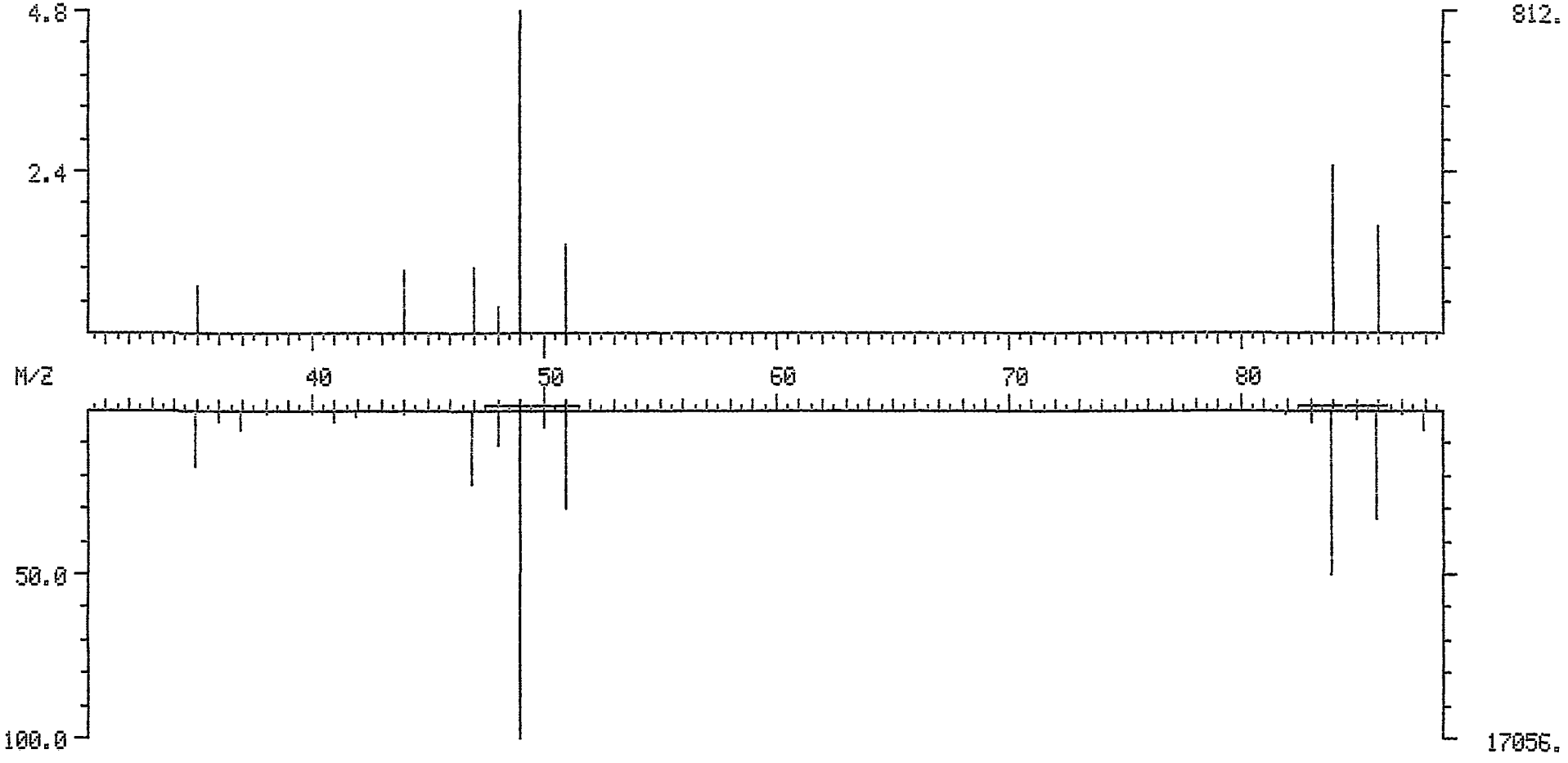
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	22639.	50.000	NG/ML	17.12
2	114	505	8:25	2	1.000	A BB	104343.	50.000	NG/ML	17.12
3	117	865	14:25	3	1.000	A BB	91988.	50.000	NG/ML	17.12
4	65	458	7:38	1	1.145	A BB	50290.	46.663	NG/ML	15.98
5	98	676	11:16	3	0.782	A BB	93474.	49.375	NG/ML	16.91
6	95	1035	17:15	3	1.197	A BB	70733.	44.082	NG/UL	15.09
7	84	268	4:28	1	0.670	A BB	1372.	1.926	NG/ML	0.66

DUAL MASS SPECTRUM
11/11/93 21:58:00 + 4:28
SECOND SPECTRUM
SAMPLE: EXQ11
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ11V #268
CALI: EXQ11V #3
DATA: 50VZ1111Z #270

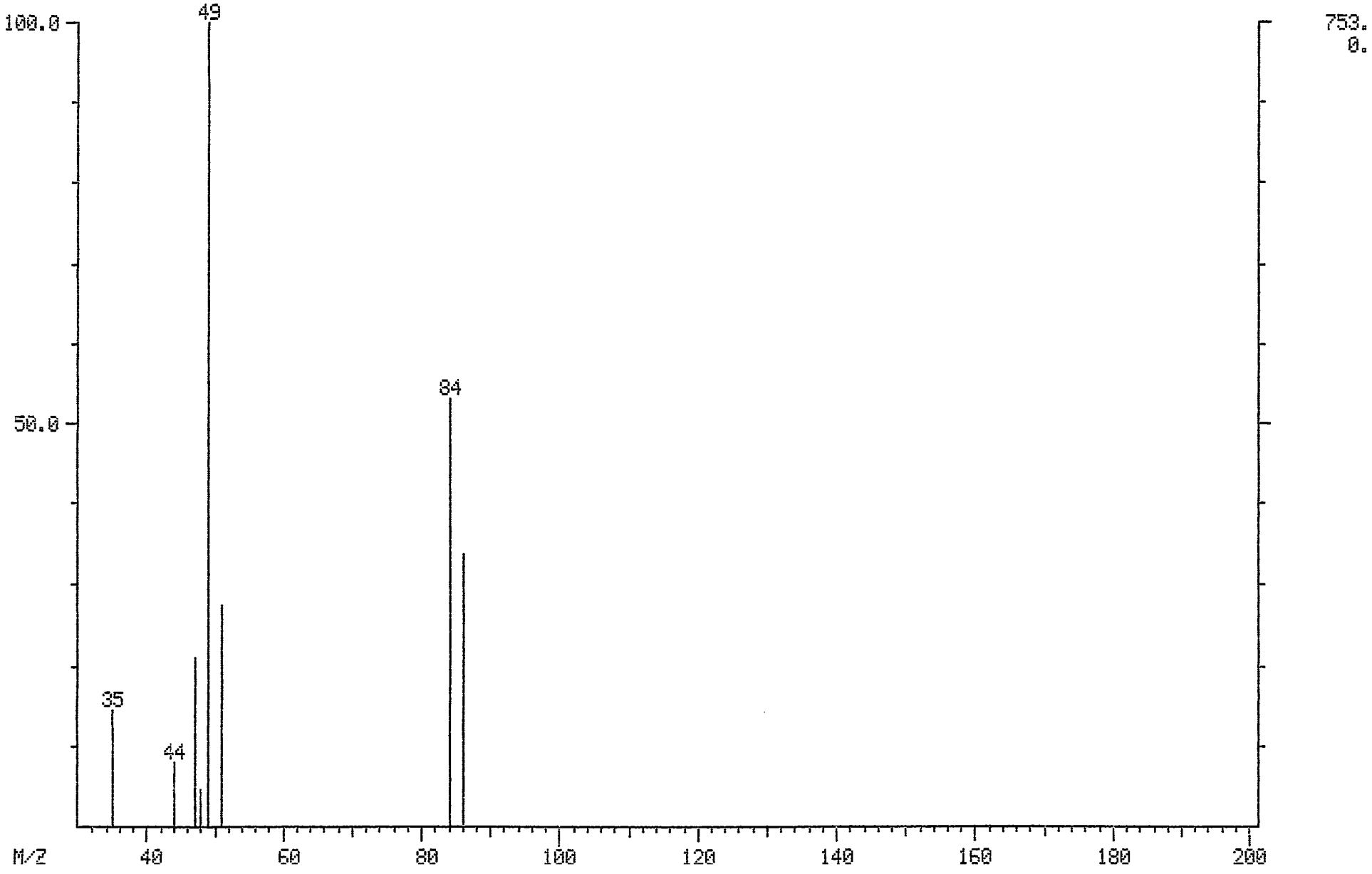
BASE M/Z: 49/ 49
RIC: 2228./ 50560.



MASS SPECTRUM
11/11/93 21:58:00 + 4:28
SAMPLE: EXQ11
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ11V #268
CALI: EXQ11V #3

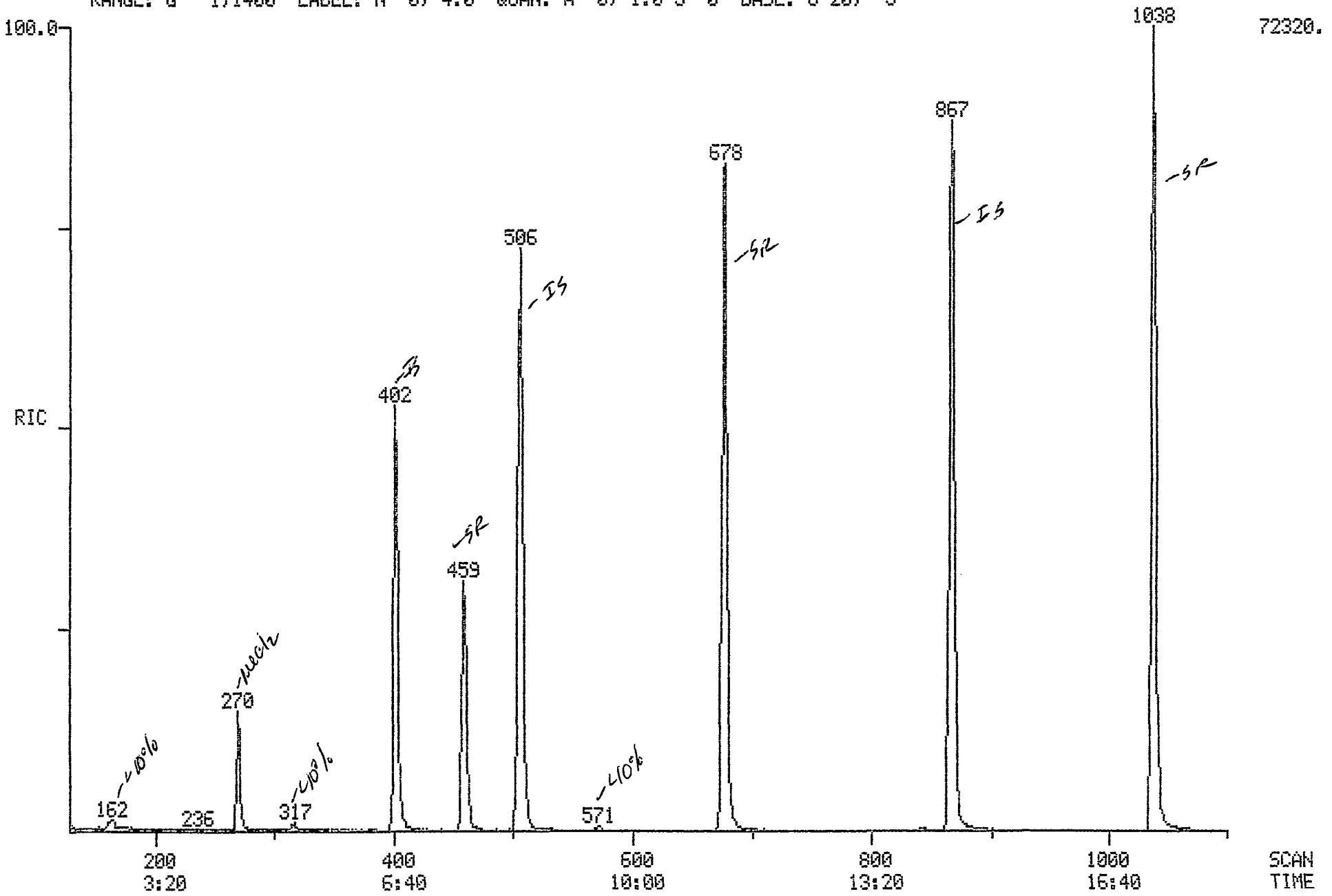
BASE M/Z: 49
RIC: 1982.



RIC
11/13/93 18:10:00
SAMPLE: EXQ12
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ12V #1
CALI: EXQ12V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ12V

Data: EXQ12V.TI
11/13/93 18:10:00
Sample: EXQ12
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

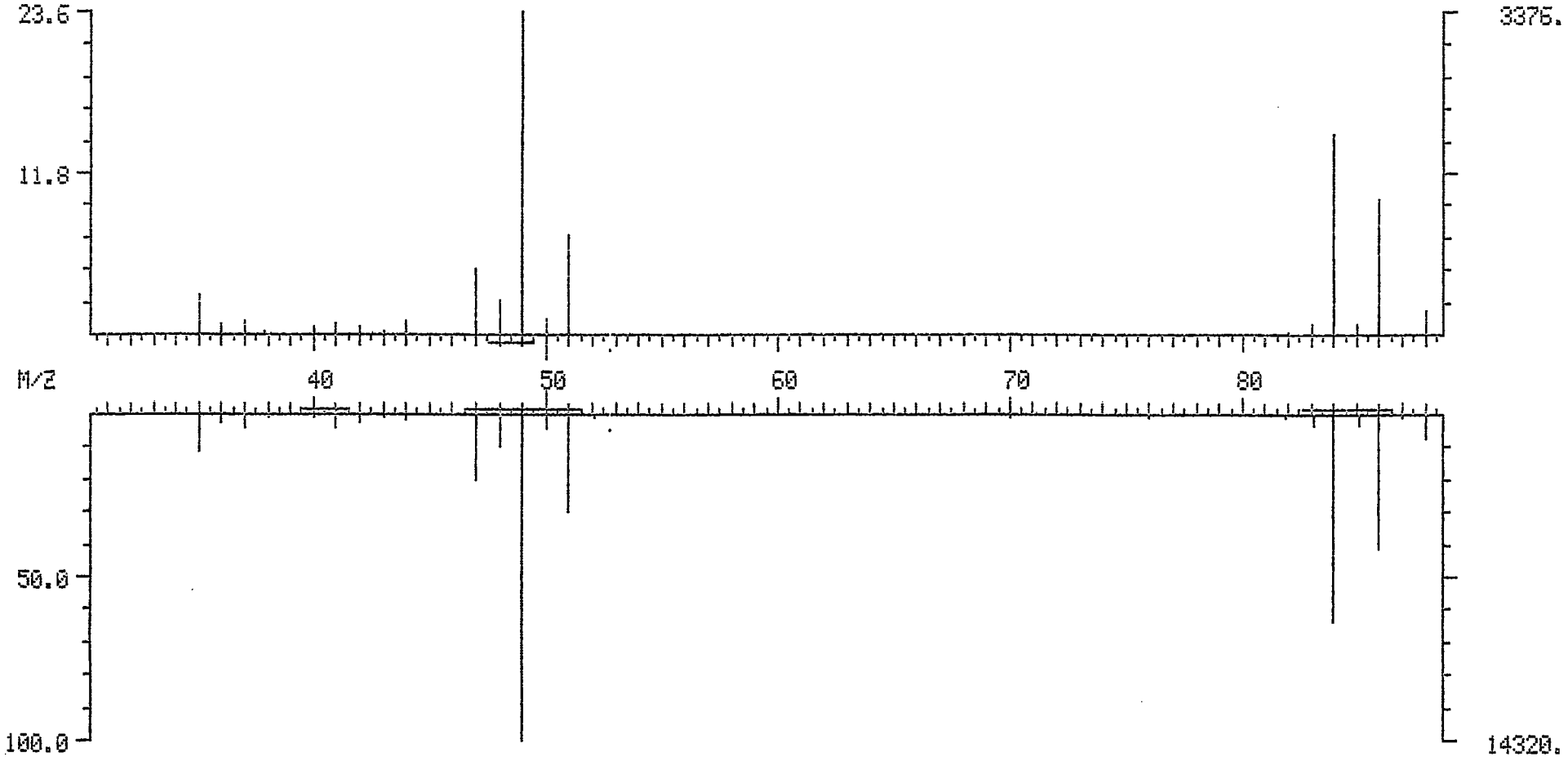
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	22071.	50.000	NG/ML	15.57
2	114	506	8:26	2	1.000	A BB	104246.	50.000	NG/ML	15.57
3	117	867	14:27	3	1.000	A BB	94058.	50.000	NG/ML	15.57
4	65	459	7:39	1	1.142	A BB	34508.	54.021	NG/ML	16.83
5	98	678	11:18	3	0.782	A BB	105467.	53.240	NG/ML	16.58
6	95	1038	17:18	3	1.197	A BB	73591.	51.229	NG/UL	15.96
7	84	270	4:30	1	0.672	A BB	7647.	12.571	NG/ML	3.92

DUAL MASS SPECTRUM
11/13/93 18:10:00 + 4:30
SECOND SPECTRUM
SAMPLE: EXQ12
CONDS.: (/BF(50 F 3-> 225@ 8/M"N)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ12V #270
CALI: EXQ12V #3
DATA: 50VZ1113Z #270

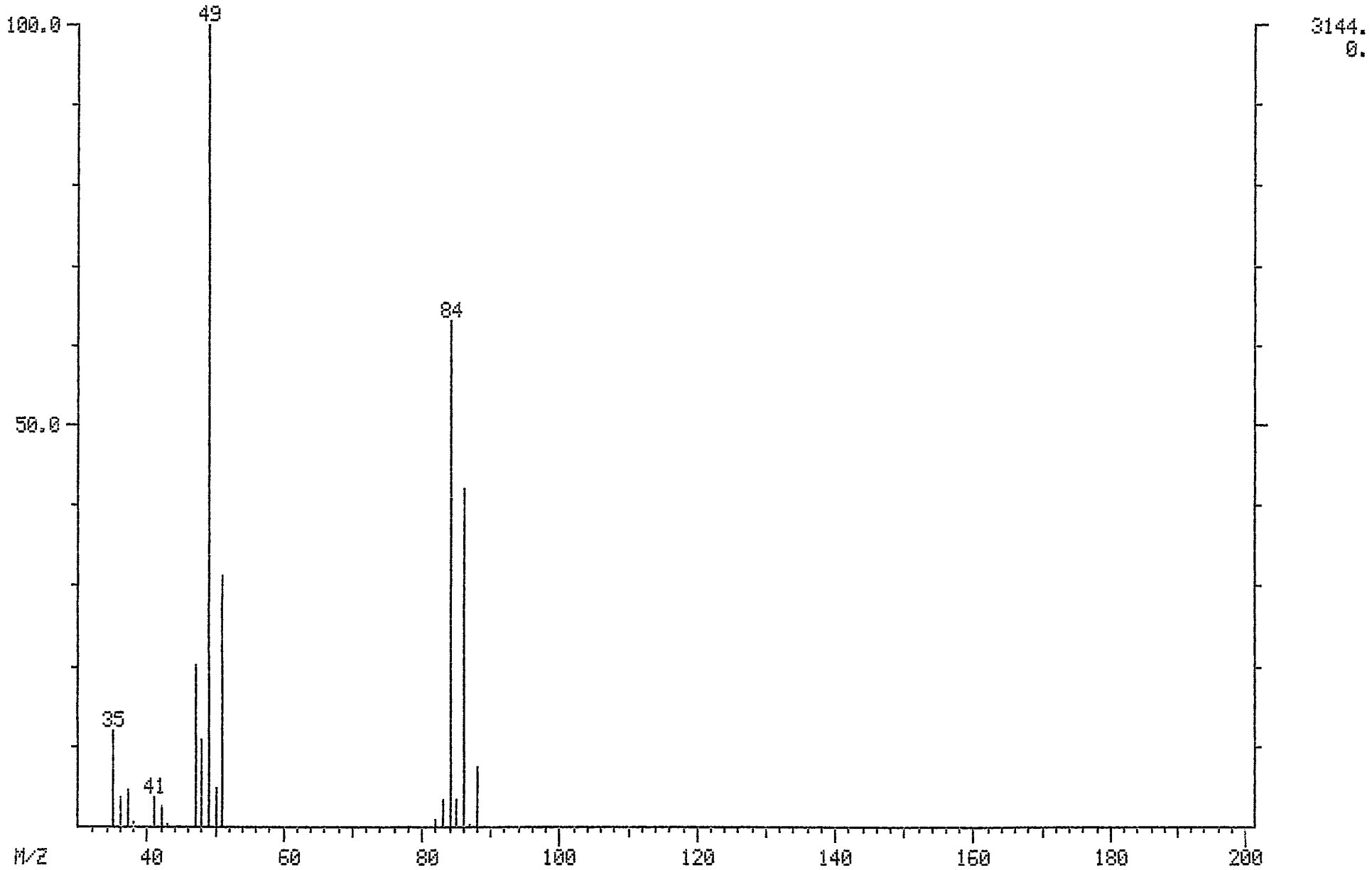
BASE M/Z: 49/ 49
RIC: 10672./ 44864.



MASS SPECTRUM
11/13/93 18:10:00 + 4:30
SAMPLE: EXQ12
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ12V #270
CALI: EXQ12V #3

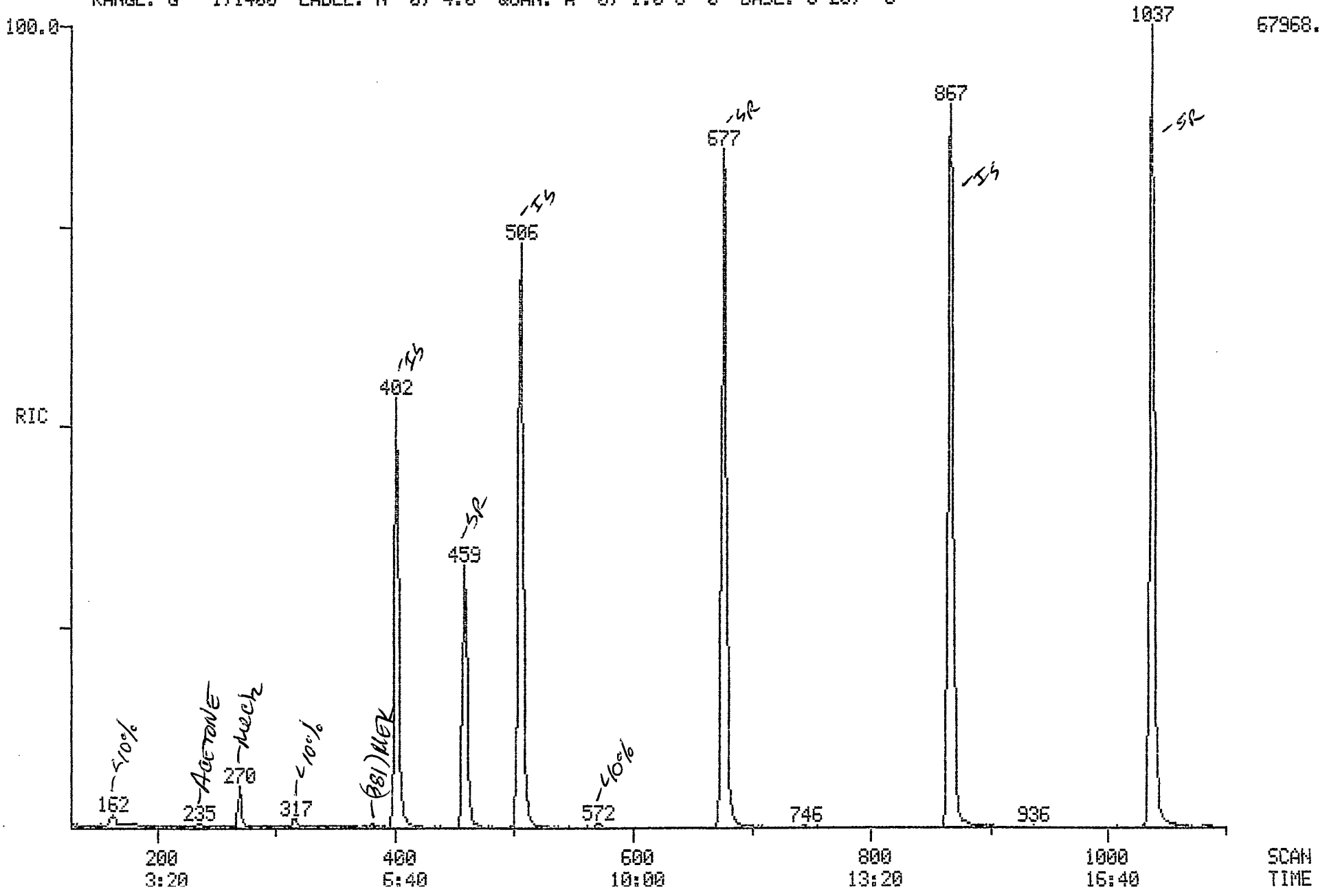
BASE M/Z: 49
RIC: 9904.



RIC
11/13/93 17:38:00
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ14V #1
CALI: EXQ14V #3

SCANS 125 TO 1100



225

Quantitation Report File: EXQ14V

Data: EXQ14V.TI
11/13/93 17:38:00
Sample: EXQ14
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

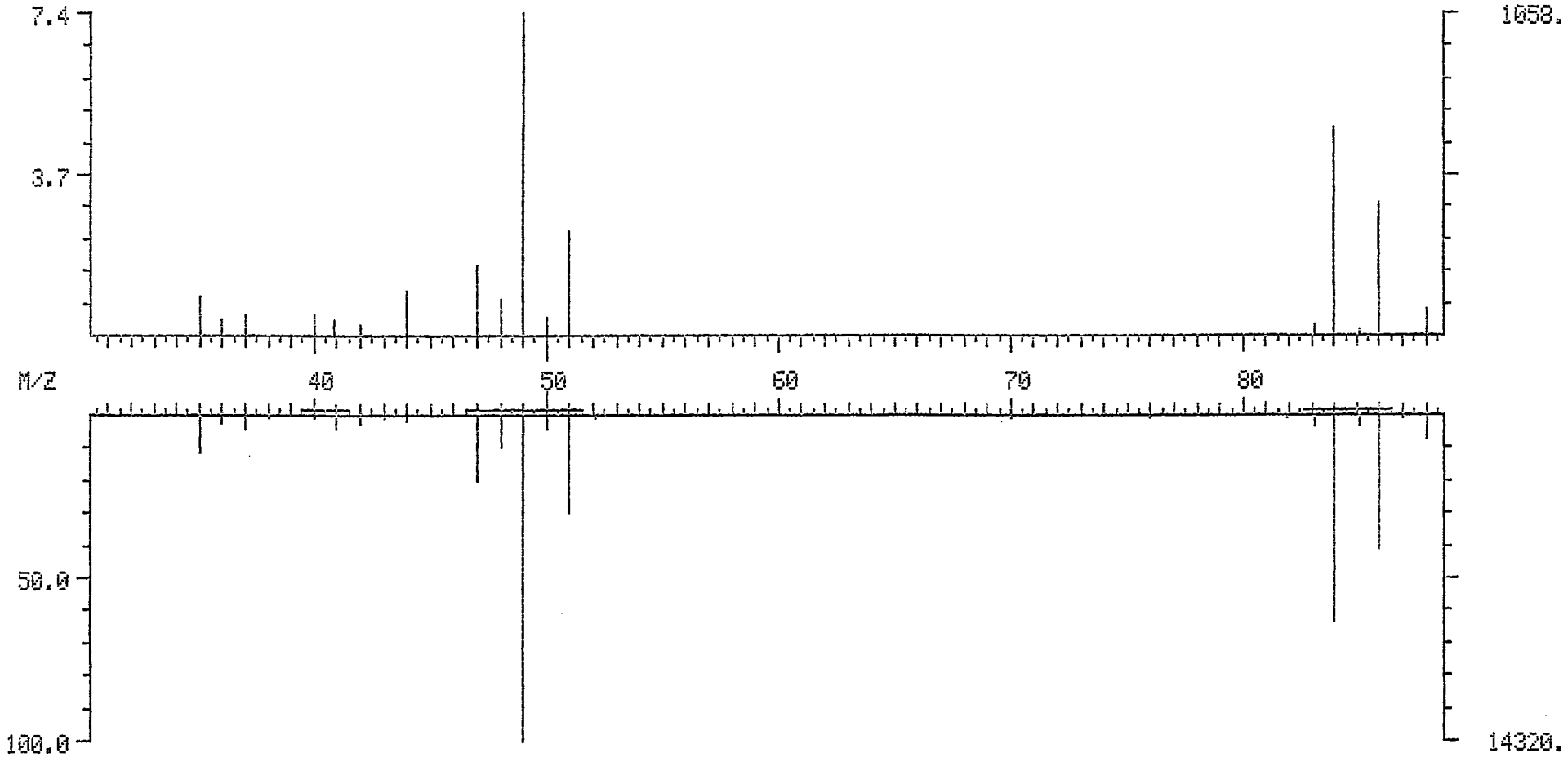
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C035 ACETONE
9	C110 2-BUTANONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	20607.	50.000	NG/ML	15.28
2	114	506	8:26	2	1.000	A BB	99744.	50.000	NG/ML	15.28
3	117	867	14:27	3	1.000	A BB	91450.	50.000	NG/ML	15.28
4	65	459	7:39	1	1.142	A BB	33988.	56.987	NG/ML	17.41
5	98	677	11:17	3	0.781	A BB	100977.	52.427	NG/ML	16.02
6	95	1037	17:17	3	1.196	A BB	71664.	51.310	NG/UL	15.68
7	84	270	4:30	1	0.672	A BB	2532.	4.458	NG/ML	1.36
8	43	235	3:55	1	0.585	A BB	836.	7.601	NG/ML	2.32
9	43	381	6:21	1	0.948	A BB	837.	4.480	NG/ML	1.37

DUAL MASS SPECTRUM
11/13/93 17:38:00 + 4:30
SECOND SPECTRUM
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 54 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ14V #270
CALI: EXQ14V #3
DATA: 50VZ1113Z #270

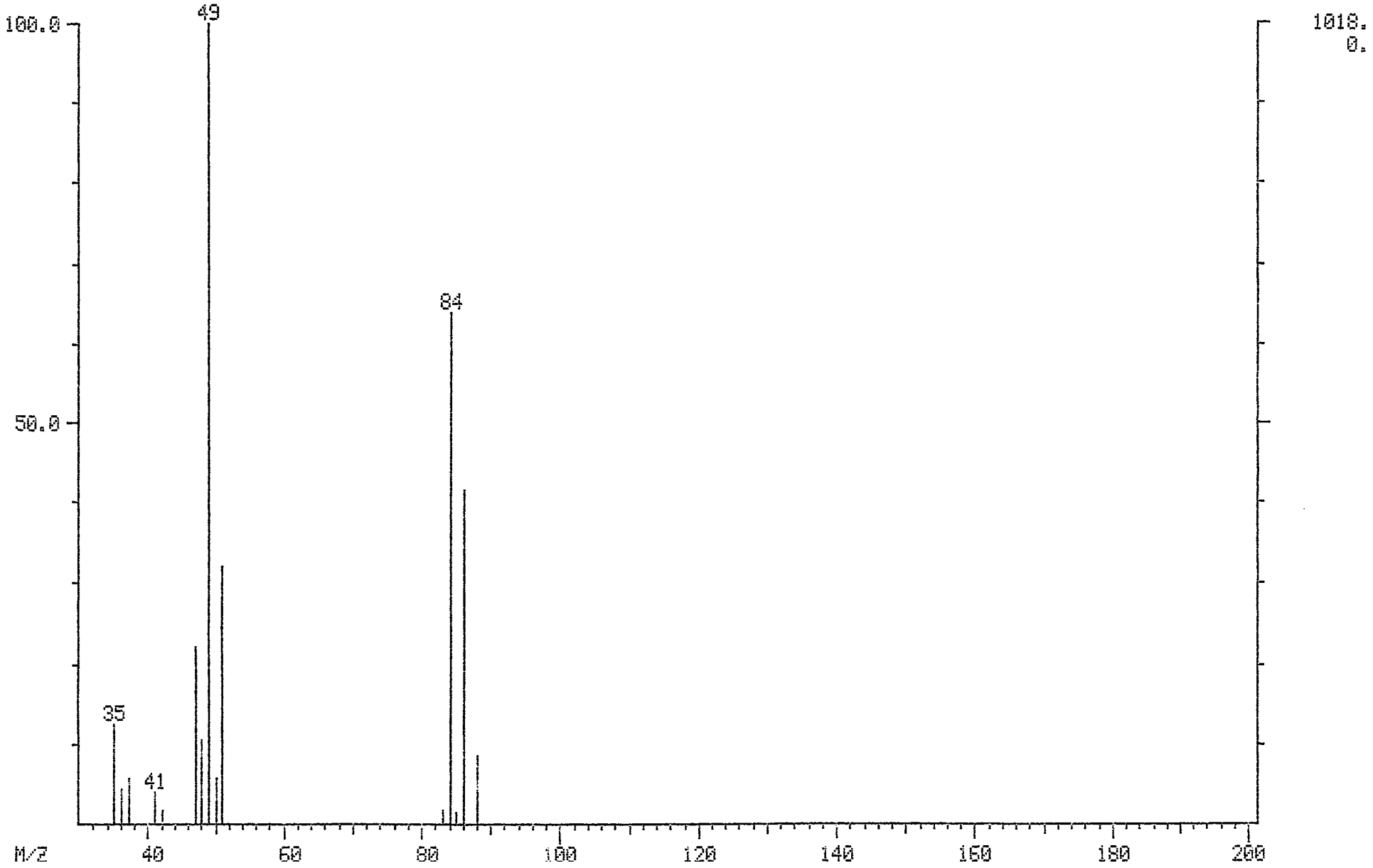
BASE M/Z: 49/ 49
RIC: 3608./ 44864.



MASS SPECTRUM
11/13/93 17:38:00 + 4:30
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 54 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ14V #270
CALI: EXQ14V #3

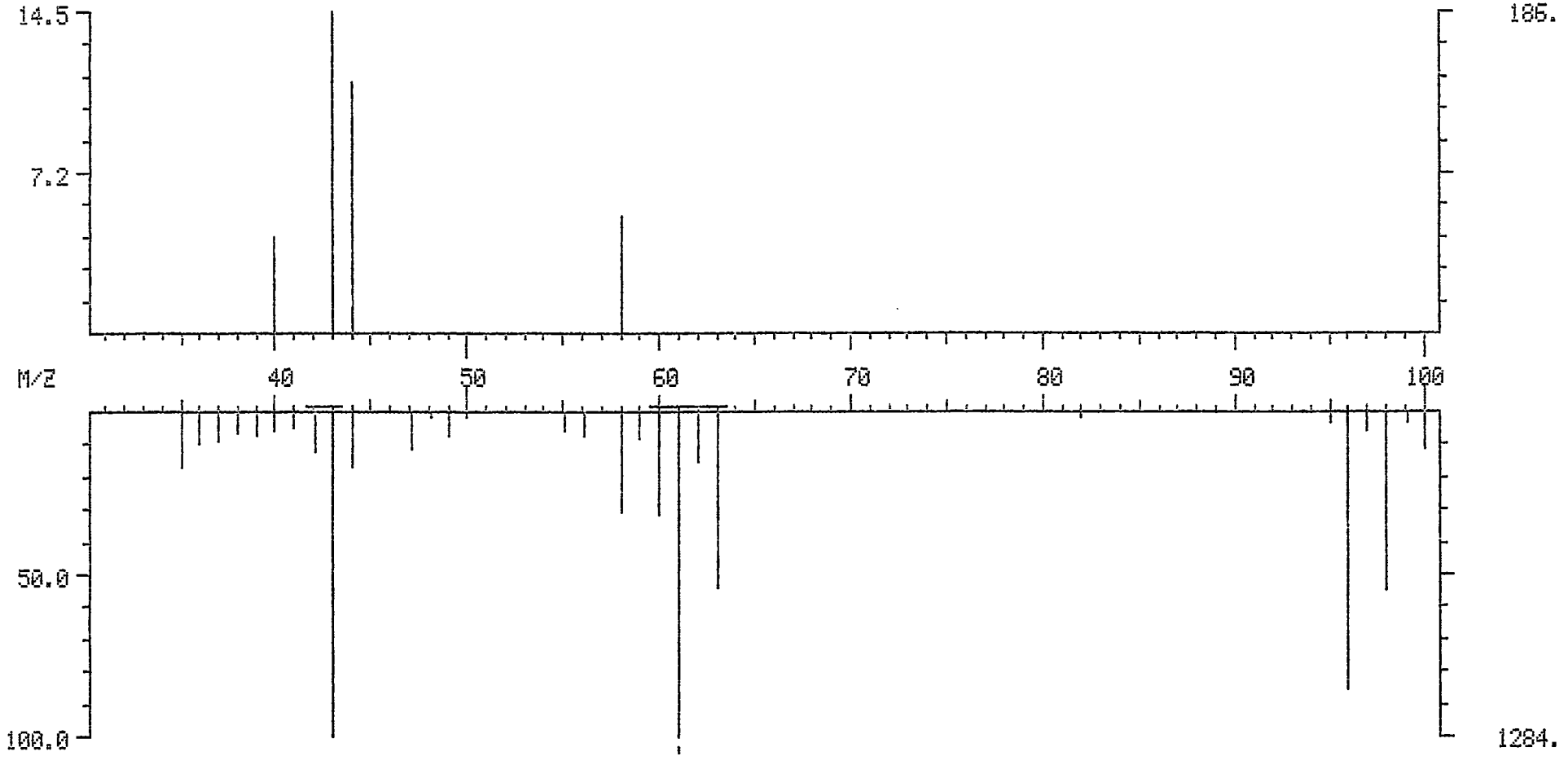
BASE M/Z: 49
RIC: 3216.



DUAL MASS SPECTRUM
11/13/93 17:38:00 + 3:55
SECOND SPECTRUM
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: EXQ14V #235
CALI: EXQ14V #3
DATA: 50VZ1113Z #235

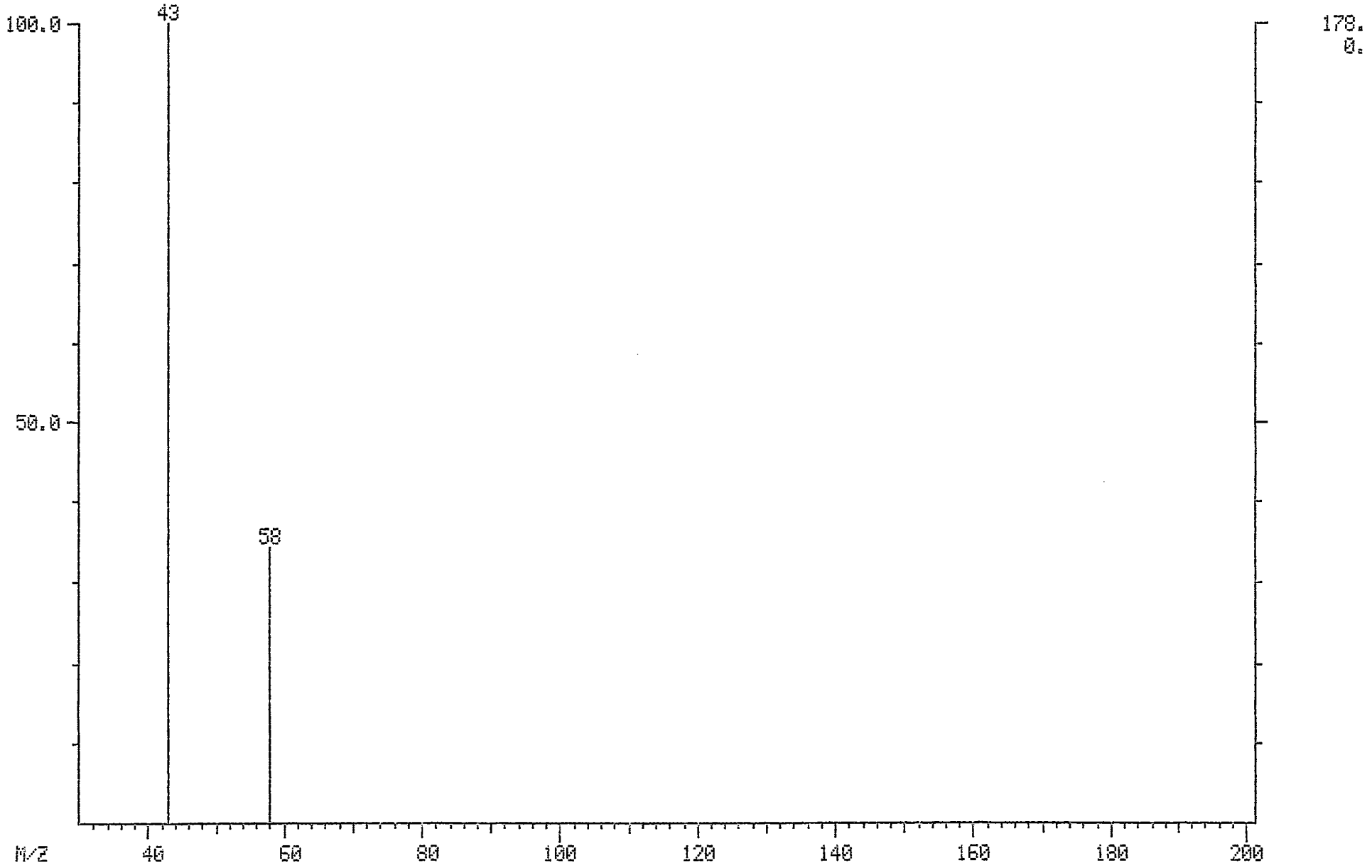
BASE M/Z: 43/ 61
RIC: 455./ 8864.



MASS SPECTRUM
11/13/93 17:38:00 + 3:55
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: EXQ14V #235
CALI: EXQ14V #3

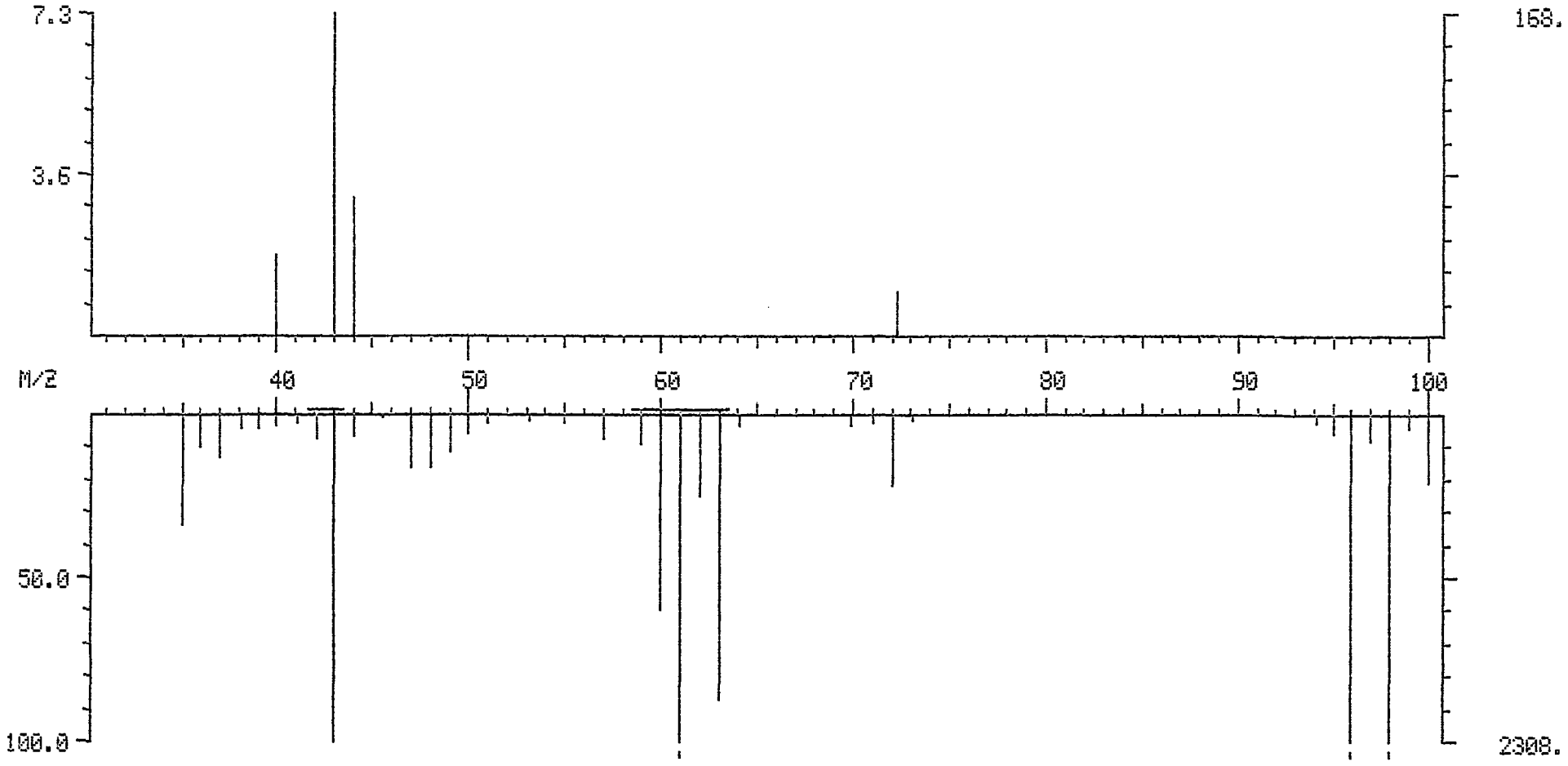
BASE M/Z: 43
RIC: 239.



DUAL MASS SPECTRUM
11/13/93 17:38:00 + 6:21
SECOND SPECTRUM
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
NAME: C110 2-BUTANONE

DATA: EXQ14V #381
CALI: EXQ14V #3
DATA: 50VZ1113Z #382

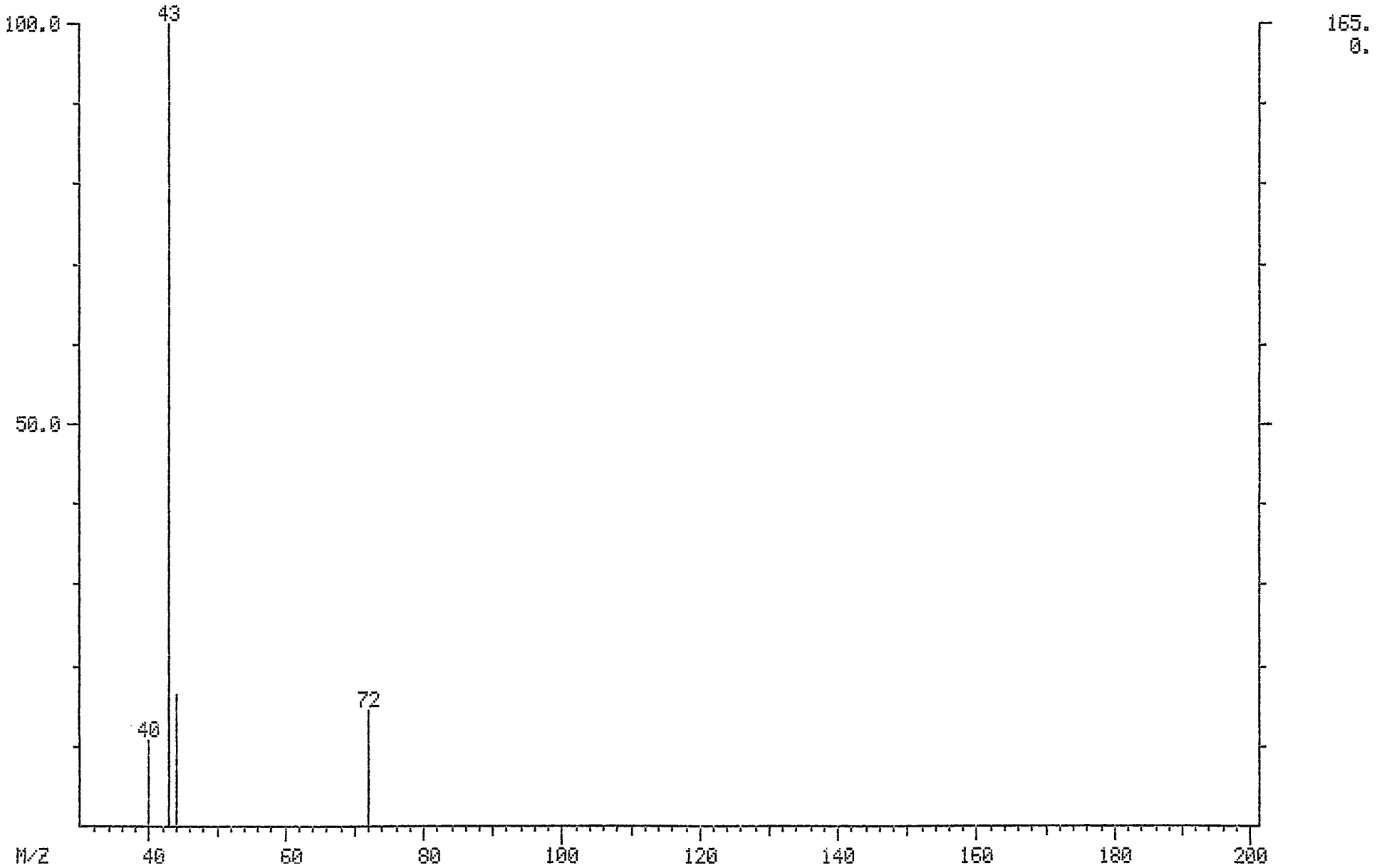
BASE M/Z: 43/ 61
RIC: 305./ 25344.



MASS SPECTRUM
11/13/93 17:38:00 + 6:21
SAMPLE: EXQ14
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: EXQ14V #381
CALI: EXQ14V #3

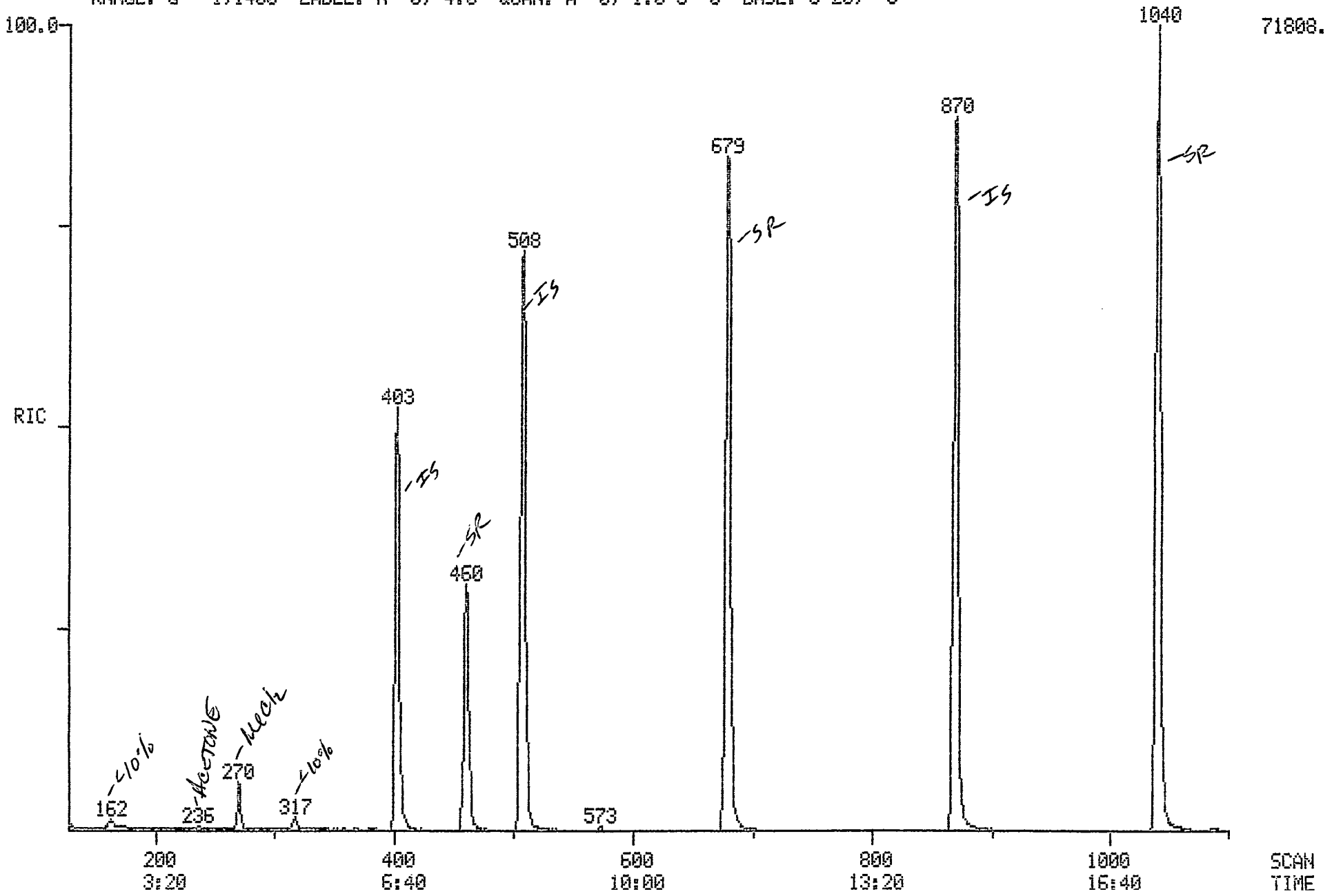
BASE M/Z: 43
RIC: 234.



RIC
11/13/93 19:44:00
SAMPLE: EX015
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX015V #1
CALI: EX015V #3

SCANS 125 TO 1100



Quantitation Report File: EXQ15V

Data: EXQ15V.TI
11/13/93 19:44:00
Sample: EXQ15
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

XI

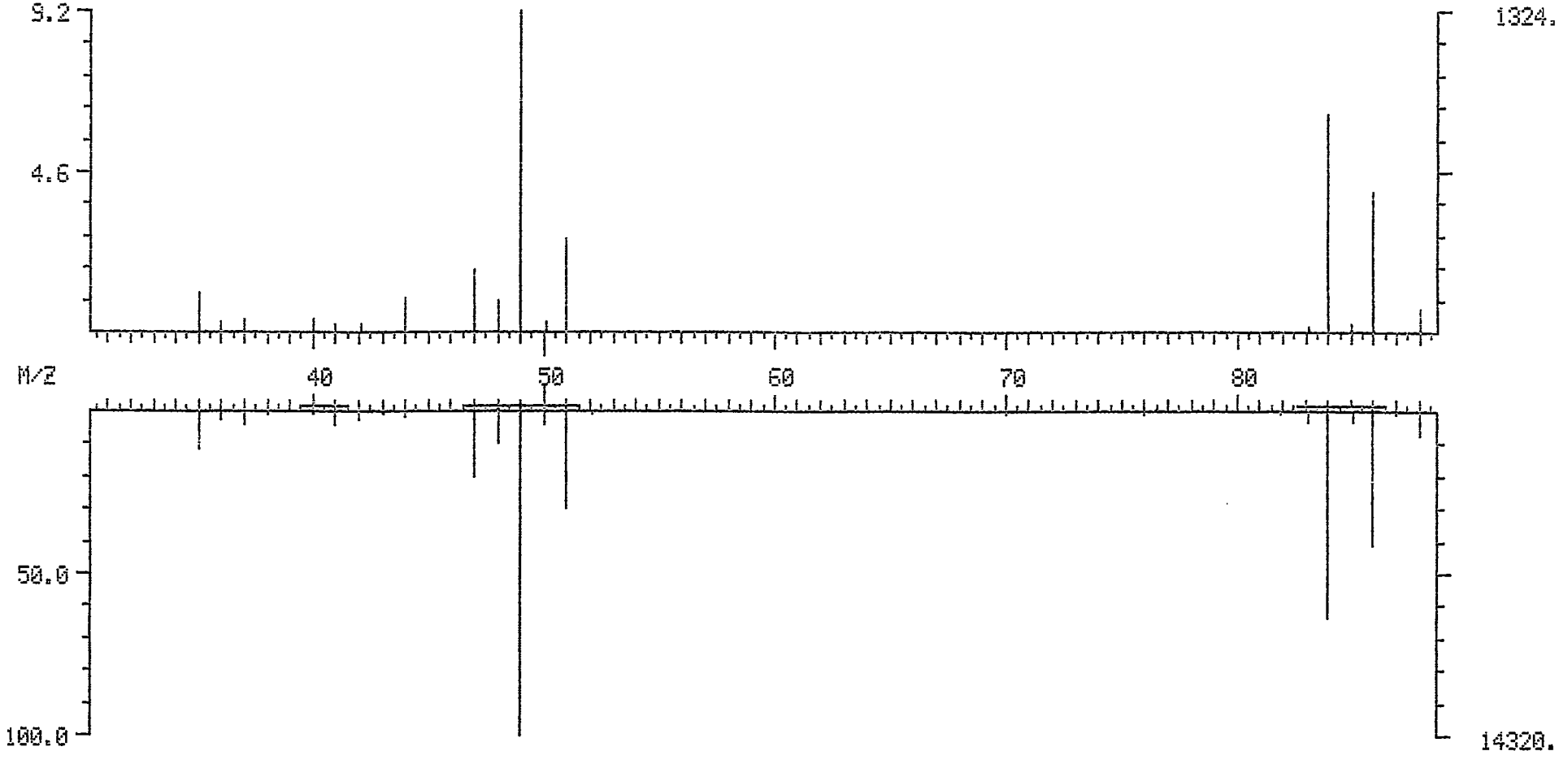
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE
8	CO35 ACETONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	403	6:43	1	1.000	A BV	22387.	50.000	NG/ML	15.80
2	114	507	8:27	2	1.000	A BB	108075.	50.000	NG/ML	15.80
3	117	869	14:29	3	1.000	A BB	98243.	50.000	NG/ML	15.80
4	65	460	7:40	1	1.141	A BB	34547.	53.320	NG/ML	16.85
5	98	679	11:19	3	0.781	A BB	107786.	52.093	NG/ML	16.46
6	95	1040	17:20	3	1.197	A BB	73817.	49.197	NG/UL	15.55
7	84	270	4:30	1	0.670	A BB	3019.	4.893	NG/ML	1.55
8	43	236	3:56	1	0.586	A BB	829.	6.938	NG/ML	2.19

DUAL MASS SPECTRUM
11/13/93 19:44:00 + 4:30
SECOND SPECTRUM
SAMPLE: EXQ15
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: EXQ15V #270
CALI: EXQ15V #3
DATA: 50VZ1113Z #270

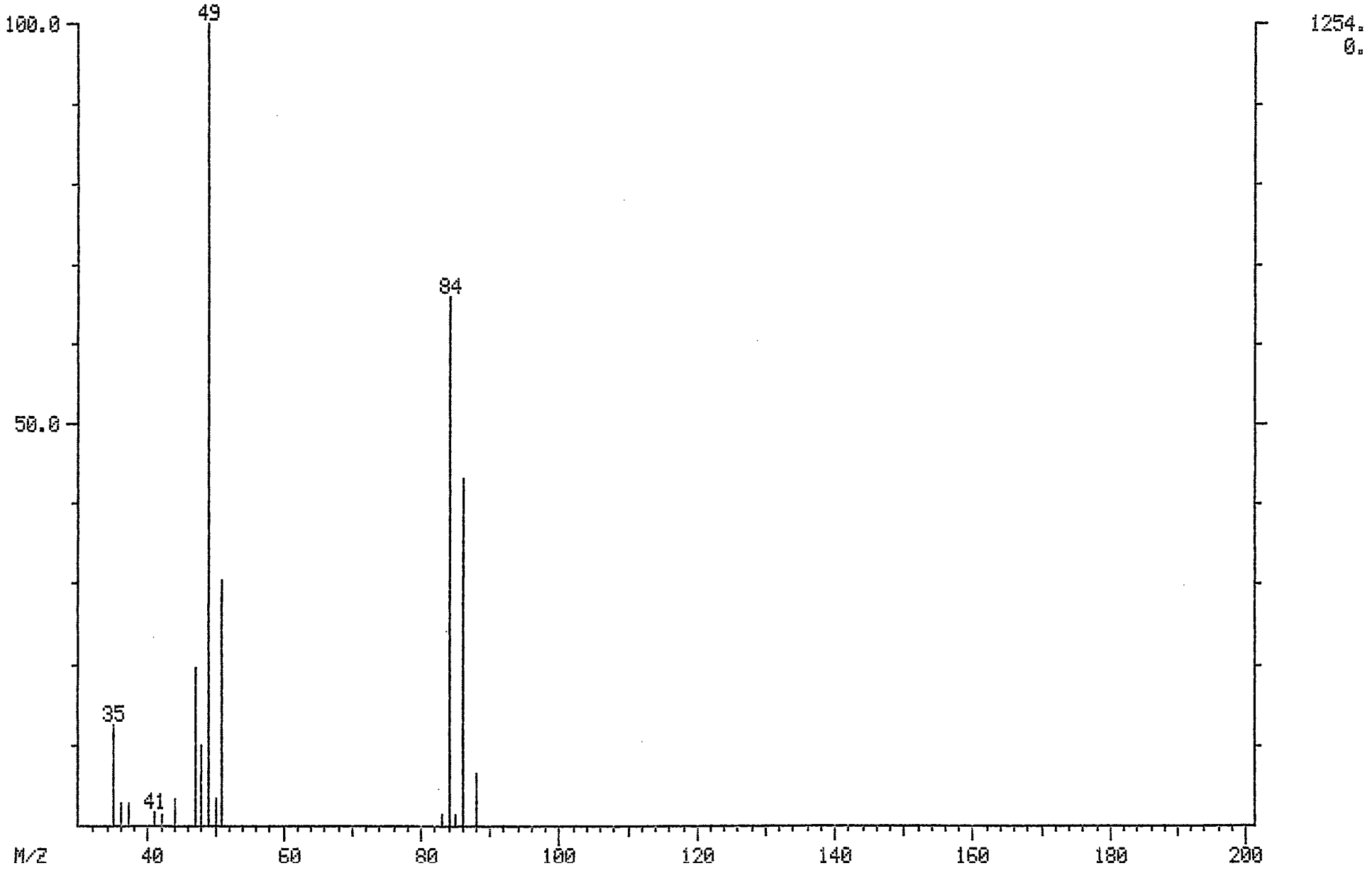
BASE M/Z: 49/ 49
RIC: 4280./ 44864.



MASS SPECTRUM
11/13/93 19:44:00 + 4:30
SAMPLE: EXQ15
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: EXQ15V #270
CALI: EXQ15V #3

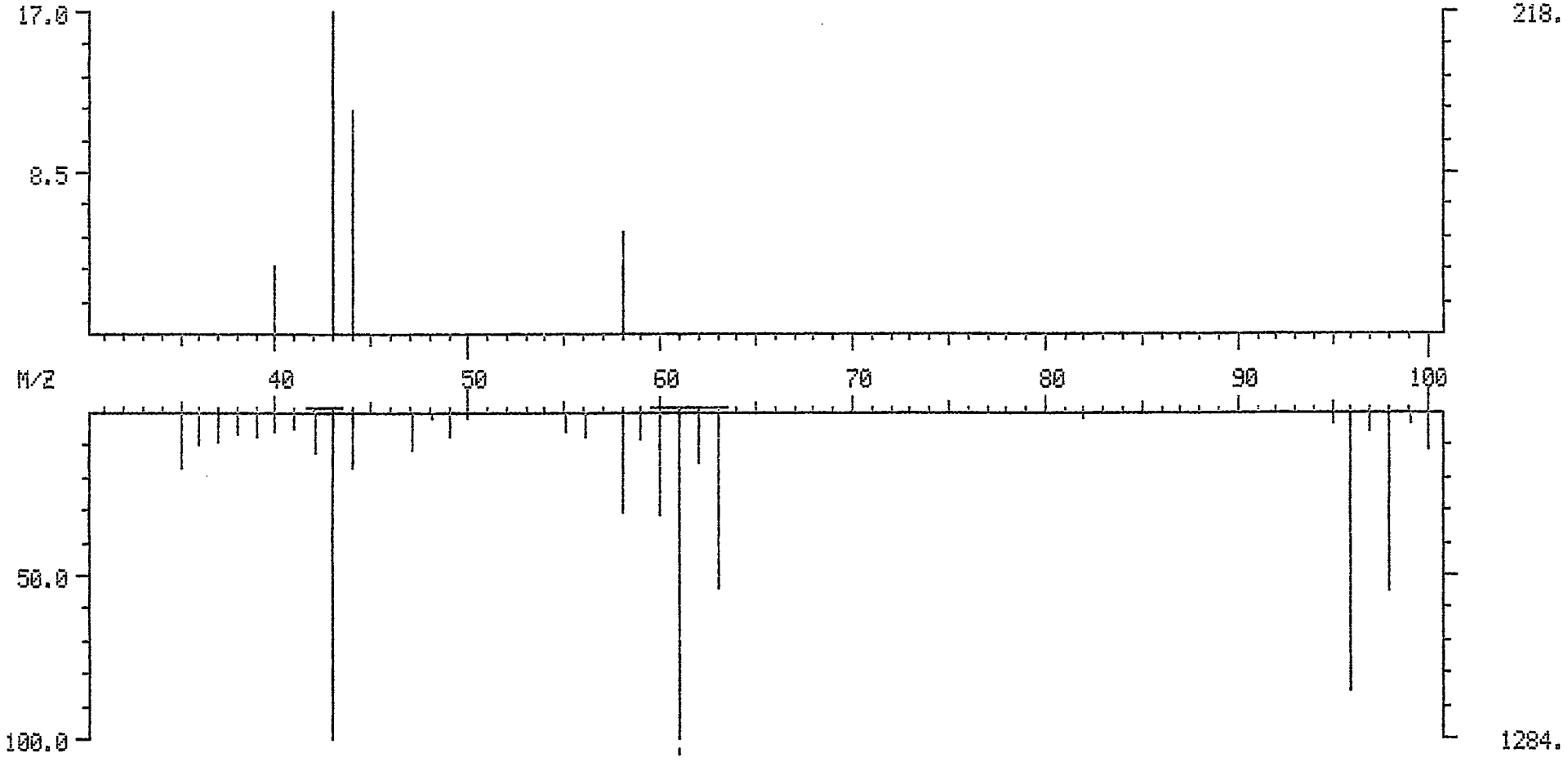
BASE M/Z: 49
RIC: 3848.



DUAL MASS SPECTRUM
11/13/93 19:44:00 + 3:56
SECOND SPECTRUM
SAMPLE: EXQ15
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: EXQ15V #236
CALI: EXQ15V #3
DATA: 50VZ1113Z #235

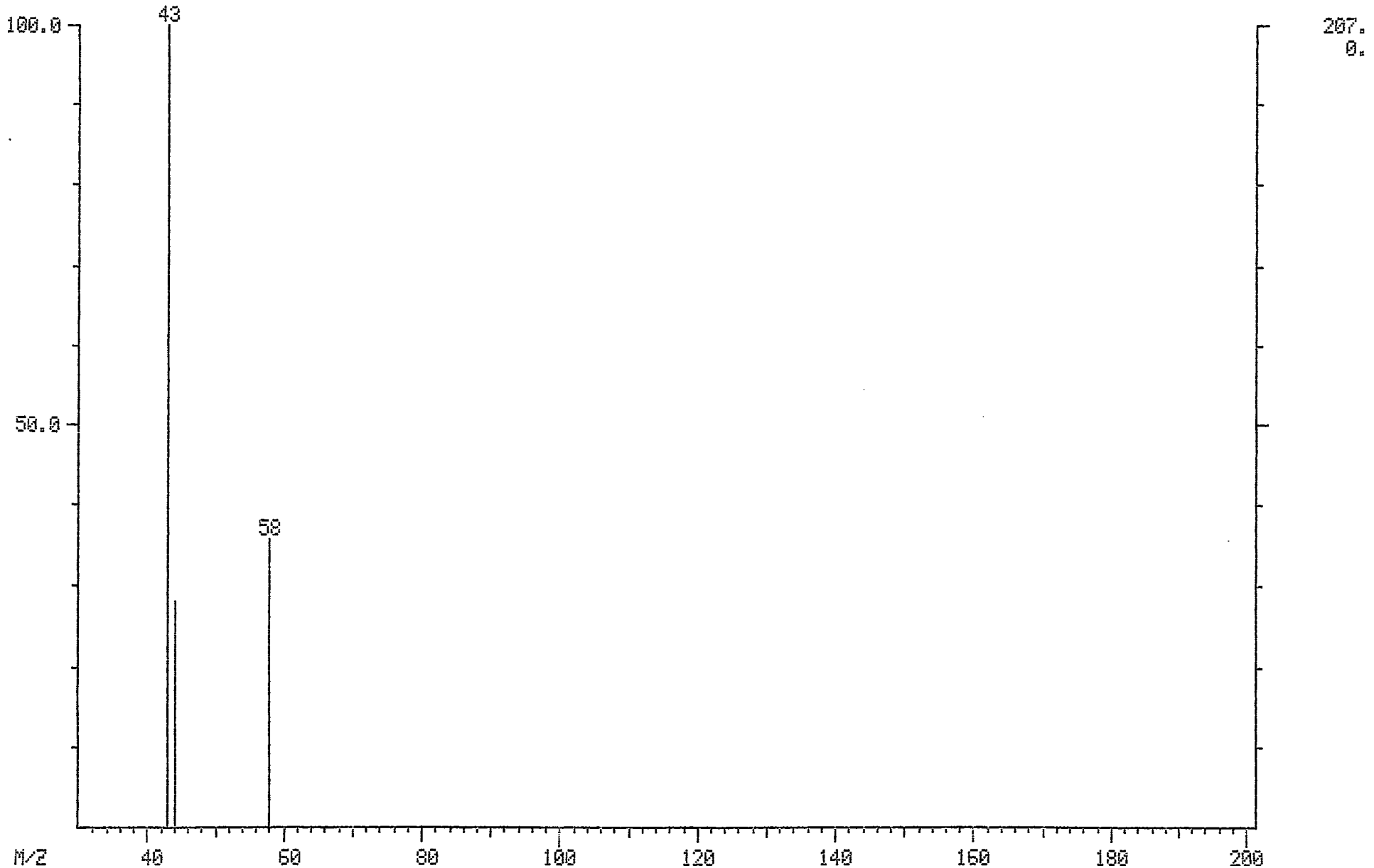
BASE M/Z: 43/ 61
RIC: 482./ 8864.



MASS SPECTRUM
11/13/93 19:44:00 + 3:56
SAMPLE: EXQ15
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: EXQ15V #236
CALI: EXQ15V #3

BASE M/Z: 43
RIC: 339.



IV. VOLATILE STANDARDS DATA

CASE # 21170
SDG # EXQ02

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration Date(s): 11/11/93 11/11/93

Heated Purge: (Y/N): Y Calibration Times: 0911 1125

GC Column: CAP ID: 0.530(mm)

LAB FILE ID: RRF10 = 10VZ1111 RRF20 = 20VZ1111
RRF50= 50VZ1111 RRF100= 100VZ1111 RRF200= 200VZ1111

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.588	0.623	0.663	0.689	0.610	0.635	6.4
Bromomethane *	1.268	1.035	0.980	1.003	1.047	1.067	10.8*
Vinyl Chloride *	0.794	0.809	0.839	0.876	0.763	0.816	5.3*
Chloroethane	0.824	0.818	0.798	0.831	0.786	0.811	2.3
Methylene Chloride	1.733	1.572	1.462	1.422	1.376	1.513	9.4
Acetone	0.448	0.385	0.438	0.378	0.357	0.401	9.9
Carbon Disulfide	3.276	3.492	3.571	3.843	3.719	3.580	6.1
1,1-Dichloroethene *	1.373	1.389	1.345	1.387	1.362	1.371	1.3*
1,1-Dichloroethane *	3.613	3.516	3.444	3.518	3.469	3.512	1.8*
1,2-Dichloroethene (total)	1.578	1.586	1.543	1.599	1.564	1.574	1.4
Chloroform *	3.682	3.675	3.513	3.648	3.663	3.636	1.9*
1,2-Dichloroethane *	2.577	2.485	2.603	2.656	2.781	2.620	4.2*
2-Butanone	0.794	0.748	0.785	0.692	0.655	0.735	8.2
1,1,1-Trichloroethane *	0.720	0.698	0.672	0.686	0.684	0.692	2.6*
Carbon Tetrachloride *	0.751	0.744	0.711	0.726	0.728	0.732	2.2*
Bromodichloromethane *	0.624	0.649	0.696	0.705	0.735	0.682	6.6*
1,2-Dichloropropane	0.360	0.367	0.377	0.383	0.395	0.376	3.6
cis-1,3-Dichloropropene *	0.501	0.522	0.557	0.555	0.585	0.544	6.0*
Trichloroethene *	0.480	0.487	0.478	0.498	0.512	0.491	2.9*
Dibromochloromethane *	0.551	0.620	0.689	0.701	0.732	0.659	11.0*
1,1,2-Trichloroethane *	0.311	0.316	0.353	0.345	0.361	0.337	6.7*
Benzene *	0.886	0.887	0.866	0.887	0.895	0.884	1.2*
trans-1,3-Dichloropropene *	0.426	0.463	0.512	0.525	0.547	0.495	9.9*
Bromoform *	0.467	0.561	0.706	0.709	0.730	0.635	18.2*
4-Methyl-2-Pentanone	0.372	0.370	0.473	0.402	0.397	0.403	10.4
2-Hexanone	0.228	0.235	0.319	0.284	0.274	0.268	13.9
Tetrachloroethene *	0.568	0.574	0.554	0.572	0.572	0.568	1.4*
1,1,2,2-Tetrachloroethane *	0.549	0.582	0.698	0.683	0.681	0.639	10.6*
Toluene *	1.203	1.179	1.144	1.165	1.194	1.177	2.0*
Chlorobenzene *	1.020	1.023	1.020	1.040	1.061	1.033	1.7*
Ethylbenzene *	0.495	0.496	0.494	0.519	0.529	0.507	3.2*
Styrene *	0.984	1.021	1.076	1.111	1.151	1.069	6.3*
Xylene (total) *	0.602	0.641	0.643	0.681	0.699	0.653	5.8*
Toluene-d8	1.028	0.998	1.024	1.045	1.075	1.034	2.8
Bromofluorobenzene *	0.745	0.770	0.815	0.856	0.892	0.816	7.4*
1,2-Dichloroethane-d4	2.072	2.003	2.107	2.126	2.150	2.092	2.7

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

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration Date(s): 11/13/93 11/13/93

Heated Purge: (Y/N): N Calibration Times: 0725 0933

GC Column: CAP ID: 0.530(mm)

LAB FILE ID: RRF10 = 10VZ1113 RRF20 = 20VZ1113
RRF50= 50VZ1113 RRF100= 100VZ1113 RRF200= 200VZ1113

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.864	0.798	0.822	0.859	0.826	0.834	3.3
Bromomethane *	1.394	0.991	1.071	0.917	0.988	1.072	17.5*
Vinyl Chloride *	0.998	0.992	0.986	1.003	0.967	0.989	1.4*
Chloroethane	0.827	0.850	0.802	0.851	0.704	0.807	7.5
Methylene Chloride	2.360	1.746	1.338	1.326	1.310	1.616	28.1
Acetone	0.460	0.299	0.271	0.251	0.200	0.296	33.3
Carbon Disulfide	3.740	3.819	3.738	3.972	4.192	3.892	5.0
1,1-Dichloroethene *	1.408	1.284	1.224	1.264	1.353	1.307	5.6*
1,1-Dichloroethane *	2.768	2.624	2.514	2.633	2.746	2.657	3.9*
1,2-Dichloroethene (total)	1.698	1.601	1.462	1.460	1.552	1.555	6.5
Chloroform *	2.707	2.553	2.495	2.560	2.656	2.594	3.3*
1,2-Dichloroethane *	1.444	1.392	1.345	1.366	1.429	1.395	3.0*
2-Butanone	0.704	0.583	0.515	0.537	0.453	0.558	16.8
1,1,1-Trichloroethane *	0.440	0.435	0.405	0.427	0.424	0.426	3.2*
Carbon Tetrachloride *	0.436	0.434	0.428	0.445	0.439	0.436	1.4*
Bromodichloromethane *	0.518	0.472	0.475	0.499	0.508	0.494	4.1*
1,2-Dichloropropane	0.364	0.365	0.348	0.364	0.370	0.362	2.3
cis-1,3-Dichloropropene *	0.438	0.451	0.440	0.466	0.476	0.454	3.6*
Trichloroethene *	0.451	0.466	0.438	0.458	0.468	0.456	2.7*
Dibromochloromethane *	0.519	0.512	0.493	0.532	0.496	0.510	3.2*
1,1,2-Trichloroethane *	0.360	0.323	0.305	0.323	0.305	0.323	7.0*
Benzene *	0.918	0.868	0.857	0.877	0.933	0.891	3.7*
trans-1,3-Dichloropropene *	0.318	0.352	0.348	0.369	0.373	0.352	6.2*
Bromoform *	0.440	0.467	0.475	0.507	0.469	0.472	5.1*
4-Methyl-2-Pentanone	0.337	0.353	0.349	0.356	0.291	0.337	8.0
2-Hexanone	0.216	0.220	0.233	0.239	0.196	0.221	7.6
Tetrachloroethene *	0.529	0.535	0.524	0.524	0.542	0.531	1.5*
1,1,2,2-Tetrachloroethane *	0.633	0.624	0.615	0.631	0.567	0.614	4.4*
Toluene *	1.234	1.225	1.188	1.178	1.253	1.216	2.6*
Chlorobenzene *	1.027	1.016	0.994	1.006	1.039	1.016	1.7*
Ethylbenzene *	0.481	0.511	0.503	0.485	0.523	0.501	3.5*
Styrene *	0.977	0.993	1.000	1.026	1.110	1.021	5.2*
Xylene (total) *	0.644	0.606	0.611	0.632	0.677	0.634	4.5*
Toluene-d8	1.097	1.113	1.080	1.087	1.163	1.108	3.0
Bromofluorobenzene *	0.772	0.761	0.773	0.789	0.833	0.786	3.6*
1,2-Dichloroethane-d4	1.322	1.200	1.194	1.218	1.223	1.231	4.2

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

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract:
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration Date(s): 11/24/93 11/24/93

Heated Purge: (Y/N): N Calibration Times: 0928 1140

GC Column: CAP ID: 0.530(mm)

LAB FILE ID: RRF10 = 10VZ1124 RRF20 = 20VZ1124
RRF50= 50VZ1124 RRF100= 100VZ1124 RRF200= 200VZ1124

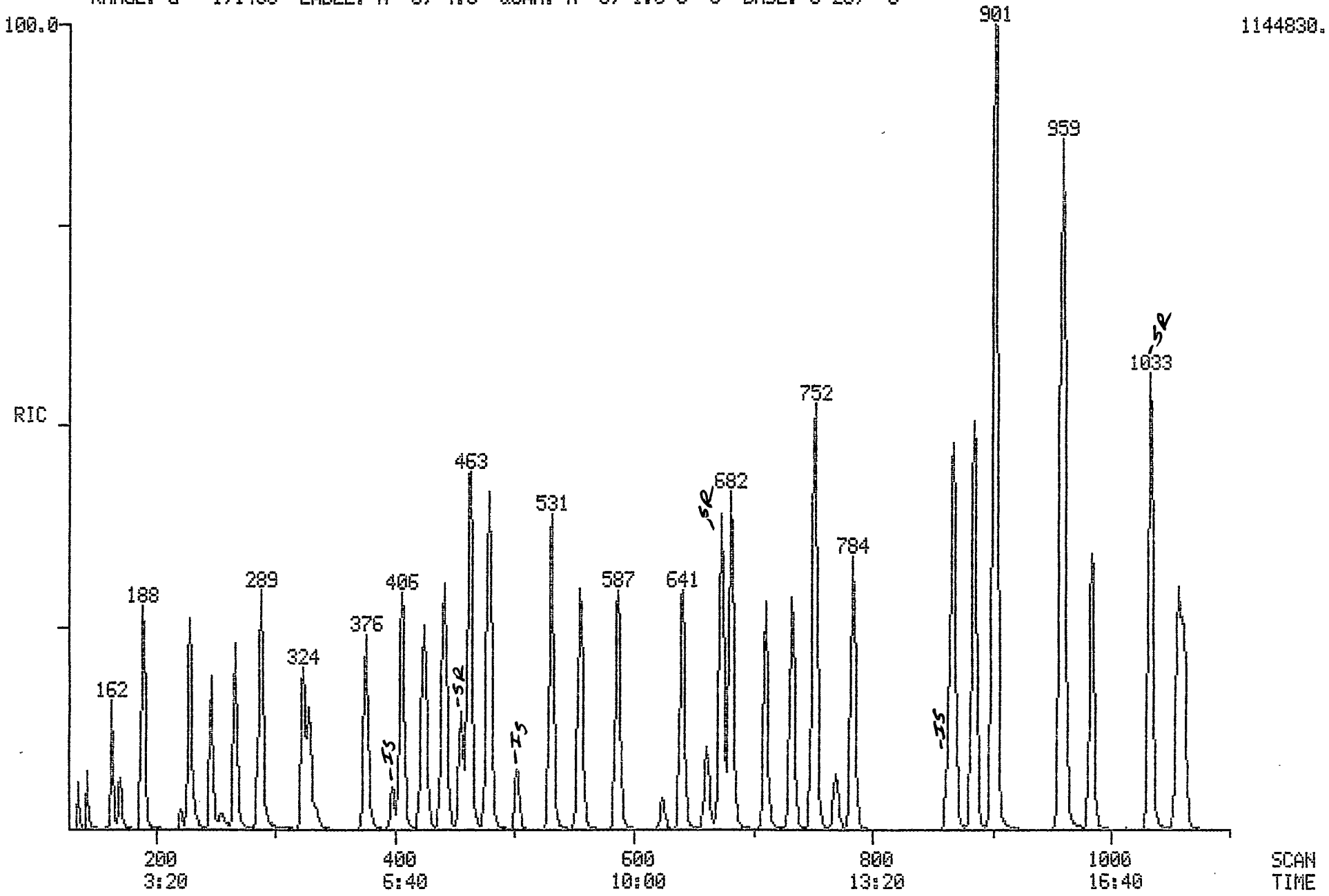
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.528	0.563	0.580	0.556	0.541	0.554	3.6
Bromomethane *	1.383	1.293	1.291	1.246	1.489	1.340	7.2*
Vinyl Chloride *	0.681	0.719	0.750	0.728	0.732	0.722	3.5*
Chloroethane	0.712	0.763	0.710	0.765	1.007	0.791	15.6
Methylene Chloride	1.382	1.265	1.253	1.214	1.254	1.274	5.0
Acetone	0.557	0.354	0.306	0.272	0.237	0.345	36.5
Carbon Disulfide	2.390	2.682	2.831	3.212	3.523	2.928	15.2
1,1-Dichloroethene *	1.241	1.266	1.174	1.267	1.394	1.268	6.3*
1,1-Dichloroethane *	2.740	2.728	2.584	2.718	2.917	2.737	4.3*
1,2-Dichloroethene (total)	1.422	1.445	1.350	1.413	1.497	1.425	3.7
Chloroform *	2.945	3.006	2.841	3.046	3.376	3.043	6.6*
1,2-Dichloroethane *	1.954	1.960	1.831	1.951	2.178	1.975	6.4*
2-Butanone	0.505	0.467	0.404	0.419	0.399	0.439	10.4
1,1,1-Trichloroethane *	0.555	0.582	0.542	0.599	0.639	0.583	6.6*
Carbon Tetrachloride *	0.607	0.641	0.608	0.660	0.726	0.648	7.5*
Bromodichloromethane *	0.500	0.533	0.524	0.586	0.661	0.561	11.4*
1,2-Dichloropropane	0.306	0.306	0.279	0.313	0.341	0.309	7.2
cis-1,3-Dichloropropene *	0.372	0.407	0.402	0.457	0.513	0.430	12.9*
Trichloroethene *	0.479	0.487	0.438	0.484	0.504	0.478	5.1*
Dibromochloromethane *	0.525	0.545	0.582	0.649	0.730	0.606	13.8*
1,1,2-Trichloroethane *	0.318	0.292	0.292	0.318	0.352	0.314	7.9*
Benzene *	0.759	0.768	0.718	0.791	0.829	0.773	5.3*
trans-1,3-Dichloropropene *	0.305	0.336	0.353	0.403	0.460	0.371	16.4*
Bromoform *	0.437	0.491	0.516	0.575	0.679	0.540	17.1*
4-Methyl-2-Pentanone	0.301	0.276	0.261	0.281	0.244	0.273	7.9
2-Hexanone	0.190	0.165	0.174	0.188	0.168	0.177	6.5
Tetrachloroethene *	0.562	0.557	0.519	0.576	0.562	0.555	3.9*
1,1,2,2-Tetrachloroethane *	0.558	0.535	0.520	0.575	0.583	0.554	4.8*
Toluene *	1.121	1.107	1.021	1.143	1.167	1.112	5.0*
Chlorobenzene *	1.038	1.027	0.950	1.021	1.050	1.017	3.9*
Ethylbenzene *	0.457	0.498	0.449	0.495	0.534	0.487	7.1*
Styrene *	0.954	0.977	0.949	1.055	1.142	1.015	8.1*
Xylene (total) *	0.614	0.633	0.580	0.641	0.706	0.635	7.3*
Toluene-d8	0.994	1.026	1.007	1.084	1.089	1.040	4.2
Bromofluorobenzene *	0.757	0.751	0.785	0.828	0.883	0.801	6.9*
1,2-Dichloroethane-d4	1.660	1.664	1.591	1.645	1.707	1.653	2.5

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

RIC
11/11/93 9:11:00
SAMPLE: VSTD200
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 200VZ1111 #1
CALI: 200VZ1111 #3

SCANS 125 TO 1100



Quantitation Report File: 200VZ1111

Data: 200VZ1111.TI
11/11/93 9:11:00
Sample: VSTD200
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	398	6:38	1	1.000	A BB	33932.	50.000 NG/ML	0.65
2	114	502	8:22	2	1.000	A BB	170048.	50.000 NG/ML	0.65
3	117	863	14:23	3	1.000	A BB	164619.	50.000 NG/ML	0.65

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	455	7:35	1	1.143	A BB	291845.	200.000	NG/ML	2.58
5	98	674	11:14	3	0.781	A BB	708093.	200.000	NG/ML	2.58
6	95	1033	17:13	3	1.197	A BB	587446.	200.000	NG/UL	2.58
7	50	133	2:13	1	0.334	A BB	82843.	200.000	NG/ML	2.58
8	94	162	2:42	1	0.407	A BB	142100.	200.000	NG/ML	2.58
9	62	141	2:21	1	0.354	A BB	103565.	200.000	NG/ML	2.58
10	64	169	2:49	1	0.425	A BB	106635.	200.000	NG/ML	2.58
11	84	266	4:26	1	0.668	A BB	186700.	200.000	NG/ML	2.58
12	43	232	3:52	1	0.583	A BB	48433.	200.000	NG/ML	2.58
13	76	246	4:06	1	0.618	A BB	504739.	200.000	NG/ML	2.58
14	96	228	3:48	1	0.573	A BB	184923.	200.000	NG/ML	2.58
15	63	324	5:24	1	0.814	A BB	470831.	200.000	NG/ML	2.58
16	96	289	4:49	1	0.726	M XX	424547.	400.000	NG/ML	5.16
17	83	406	6:46	1	1.020	A BB	497149.	200.000	NG/ML	2.58
18	62	463	7:43	1	1.163	A BB	377498.	200.000	NG/ML	2.58
19	43	378	6:18	1	0.950	A BB	88964.	200.000	NG/ML	2.58
20	97	424	7:04	2	0.845	A BB	465263.	200.000	NG/ML	2.58
21	117	441	7:21	2	0.878	A BB	495299.	200.000	NG/ML	2.58
22	43	329	5:29	2	0.655	A BB	585693.	200.000	NG/ML	2.58
23	83	587	9:47	2	1.169	A BB	499968.	200.000	NG/ML	2.58
24	63	555	9:15	2	1.106	A BB	268923.	200.000	NG/ML	2.58
25	75	710	11:50	2	1.414	A BB	371995.	200.000	NG/ML	2.58
26	130	531	8:51	2	1.058	A BB	348053.	200.000	NG/ML	2.58
27	129	784	13:04	2	1.562	A BB	497767.	200.000	NG/ML	2.58
28	97	733	12:13	2	1.460	A BB	245214.	200.000	NG/ML	2.58
29	78	462	7:42	2	0.920	A BB	608654.	200.000	NG/ML	2.58
30	75	641	10:41	2	1.277	A BB	397792.	200.000	NG/ML	2.58
31	173	983	16:23	2	1.958	A BB	496252.	200.000	NG/ML	2.58
32	43	662	11:02	3	0.767	A BV	261703.	200.000	NG/ML	2.58
33	43	770	12:50	3	0.892	A BB	180095.	200.000	NG/ML	2.58
34	164	752	12:32	3	0.871	A BB	376392.	200.000	NG/ML	2.58
35	83	1057	17:37	3	1.225	A BB	448559.	200.000	NG/ML	2.58
36	91	682	11:22	3	0.790	A BB	786387.	200.000	NG/ML	2.58
37	112	867	14:27	3	1.005	A BB	698584.	200.000	NG/ML	2.58
38	106	884	14:44	3	1.024	A BB	348463.	200.000	NG/ML	2.58
39	104	960	16:00	3	1.112	A BB	758203.	200.000	NG/ML	2.58
40	106	958	15:58	3	1.110	A BB	460033.	200.000	NG/ML	2.58

DA7. 11/11/93

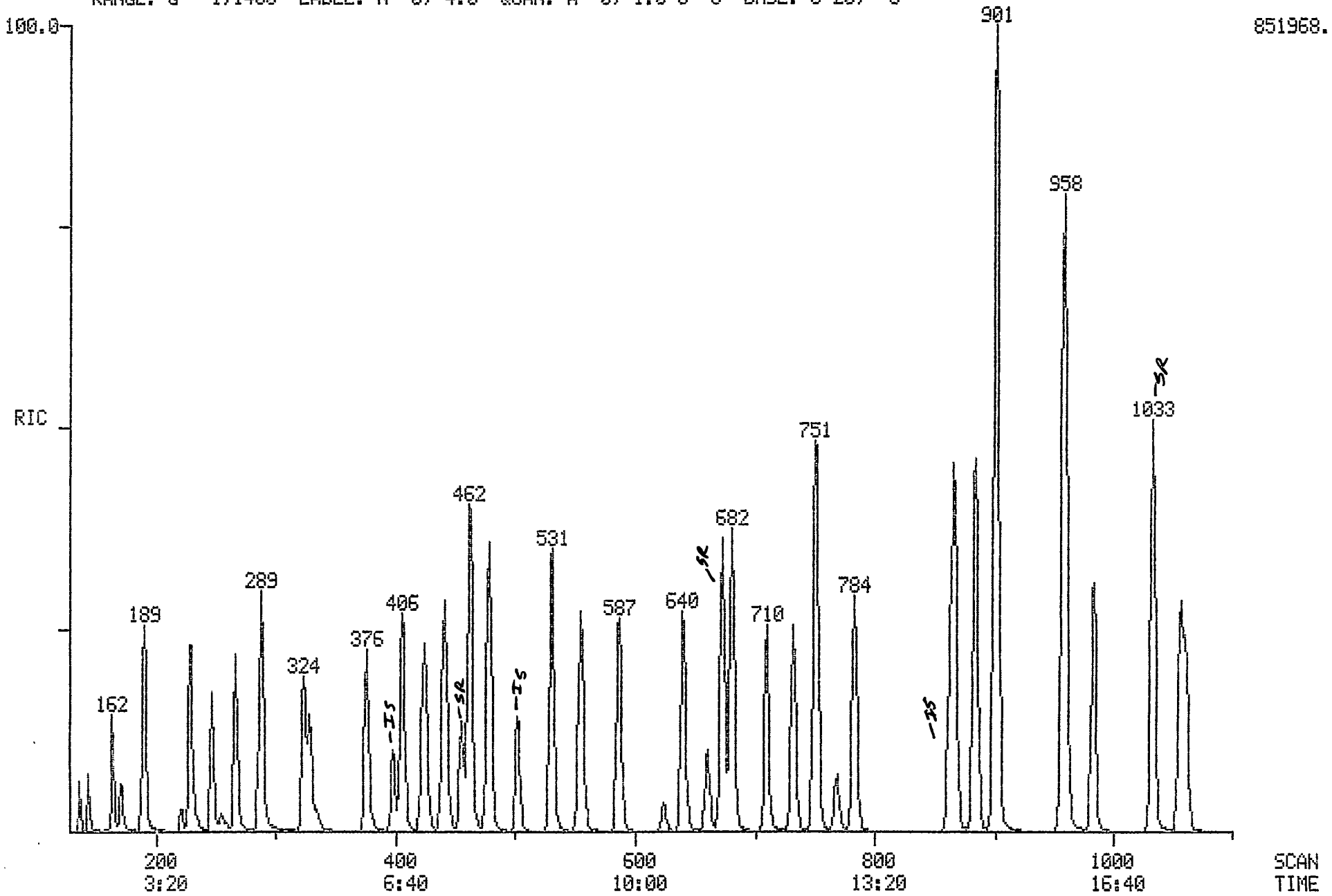
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:40	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.142	1.00	200.00	200.00	2.150	2.150	1.00
5	11:15	1.00	0.781	1.00	200.00	200.00	1.075	1.075	1.00
6	17:14	1.00	1.197	1.00	200.00	200.00	0.892	0.892	1.00
7	2:15	0.99	0.337	0.99	200.00	200.00	0.610	0.610	1.00
8	2:43	0.99	0.407	1.00	200.00	200.00	1.047	1.047	1.00
9	2:23	0.99	0.357	0.99	200.00	200.00	0.763	0.763	1.00
10	2:50	0.99	0.425	1.00	200.00	200.00	0.786	0.786	1.00
11	4:27	1.00	0.667	1.00	200.00	200.00	1.376	1.376	1.00
12	3:55	0.99	0.587	0.99	200.00	200.00	0.357	0.357	1.00
13	4:07	1.00	0.617	1.00	200.00	200.00	3.719	3.719	1.00
14	3:49	1.00	0.572	1.00	200.00	200.00	1.362	1.362	1.00
15	5:25	1.00	0.812	1.00	200.00	200.00	3.469	3.469	1.00
16	4:50	1.00	0.725	1.00	400.00	400.00	1.564	1.564	1.00
17	6:48	1.00	1.020	1.00	200.00	200.00	3.663	3.663	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.162	1.00	200.00	200.00	2.781	2.781	1.00
19	6:20	0.99	0.950	1.00	200.00	200.00	0.655	0.655	1.00
20	7:06	1.00	0.845	1.00	200.00	200.00	0.684	0.684	1.00
21	7:23	1.00	0.879	1.00	200.00	200.00	0.728	0.728	1.00
22	5:31	0.99	0.657	1.00	200.00	200.00	0.861	0.861	1.00
23	9:48	1.00	1.167	1.00	200.00	200.00	0.735	0.735	1.00
24	9:16	1.00	1.103	1.00	200.00	200.00	0.395	0.395	1.00
25	11:52	1.00	1.413	1.00	200.00	200.00	0.547	0.547	1.00
26	8:52	1.00	1.056	1.00	200.00	200.00	0.512	0.512	1.00
27	13:05	1.00	1.558	1.00	200.00	200.00	0.732	0.732	1.00
28	12:14	1.00	1.456	1.00	200.00	200.00	0.361	0.361	1.00
29	7:44	1.00	0.921	1.00	200.00	200.00	0.895	0.895	1.00
30	10:42	1.00	1.274	1.00	200.00	200.00	0.585	0.585	1.00
31	16:25	1.00	1.954	1.00	200.00	200.00	0.730	0.730	1.00
32	11:04	1.00	0.769	1.00	200.00	200.00	0.397	0.397	1.00
33	12:52	1.00	0.894	1.00	200.00	200.00	0.274	0.274	1.00
34	12:33	1.00	0.872	1.00	200.00	200.00	0.572	0.572	1.00
35	17:38	1.00	1.225	1.00	200.00	200.00	0.681	0.681	1.00
36	11:23	1.00	0.791	1.00	200.00	200.00	1.194	1.194	1.00
37	14:28	1.00	1.005	1.00	200.00	200.00	1.061	1.061	1.00
38	14:45	1.00	1.024	1.00	200.00	200.00	0.529	0.529	1.00
39	16:01	1.00	1.112	1.00	200.00	200.00	1.151	1.151	1.00
40	15:59	1.00	1.110	1.00	200.00	200.00	0.699	0.699	1.00

RIC
11/11/93 9:43:00
SAMPLE: VSTD100
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 100VZ1111 #1
CALI: 100VZ1111 #3

SCANS 125 TO 1100



249

Quantitation Report File: 100VZ1111

Data: 100VZ1111.TI
11/11/93 9:43:00
Sample: VSTD100
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	398	6:38	1	1.000	A BB	47880.	50.000 NG/ML	1.27
2	114	502	8:22	2	1.000	A BB	238406.	50.000 NG/ML	1.27
3	117	862	14:22	3	1.000	A BB	231534.	50.000 NG/ML	1.27

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	455	7:35	1	1.143	A BB	203542.	100.000	NG/ML	2.53
5	98	673	11:13	3	0.781	A BB	483739.	100.000	NG/ML	2.53
6	95	1033	17:13	3	1.198	A BB	396383.	100.000	NG/UL	2.53
7	50	134	2:14	1	0.337	A BB	66004.	100.000	NG/ML	2.53
8	94	162	2:42	1	0.407	A BB	96001.	100.000	NG/ML	2.53
9	62	142	2:22	1	0.357	A BB	83863.	100.000	NG/ML	2.53
10	64	169	2:49	1	0.425	A BB	79560.	100.000	NG/ML	2.53
11	84	266	4:26	1	0.668	A BB	136185.	100.000	NG/ML	2.53
12	43	233	3:53	1	0.585	A BB	36232.	100.000	NG/ML	2.53
13	76	246	4:06	1	0.618	A BB	368033.	100.000	NG/ML	2.53
14	96	228	3:48	1	0.573	A BB	132844.	100.000	NG/ML	2.53
15	63	324	5:24	1	0.814	A BB	336846.	100.000	NG/ML	2.53
16	96	289	4:49	1	0.726	M XX D.A.T. 11/11/93	306283.	200.000	NG/ML	5.06
17	83	406	6:46	1	1.020	A BB	349335.	100.000	NG/ML	2.53
18	62	463	7:43	1	1.163	A BB	254373.	100.000	NG/ML	2.53
19	43	378	6:18	1	0.950	A BB	66297.	100.000	NG/ML	2.53
20	97	424	7:04	2	0.845	A BB	326917.	100.000	NG/ML	2.53
21	117	441	7:21	2	0.878	A BB	345931.	100.000	NG/ML	2.53
22	43	329	5:29	2	0.655	A BB	410763.	100.000	NG/ML	2.53
23	83	587	9:47	2	1.169	A BB	336094.	100.000	NG/ML	2.53
24	63	555	9:15	2	1.106	A BB	182410.	100.000	NG/ML	2.53
25	75	710	11:50	2	1.414	A BB	250266.	100.000	NG/ML	2.53
26	130	530	8:50	2	1.056	A BB	237425.	100.000	NG/ML	2.53
27	129	783	13:03	2	1.560	A BB	334245.	100.000	NG/ML	2.53
28	97	733	12:13	2	1.460	A BB	164321.	100.000	NG/ML	2.53
29	78	462	7:42	2	0.920	A BB	422874.	100.000	NG/ML	2.53
30	75	640	10:40	2	1.275	A BB	264585.	100.000	NG/ML	2.53
31	173	983	16:23	2	1.958	A BB	338253.	100.000	NG/ML	2.53
32	43	661	11:01	3	0.767	A BV	186330.	100.000	NG/ML	2.53
33	43	769	12:49	3	0.892	A BB	131456.	100.000	NG/ML	2.53
34	164	751	12:31	3	0.871	A BB	264913.	100.000	NG/ML	2.53
35	83	1057	17:37	3	1.226	A BB	316473.	100.000	NG/ML	2.53
36	91	682	11:22	3	0.791	A BB	539702.	100.000	NG/ML	2.53
37	112	866	14:26	3	1.005	A BB	481574.	100.000	NG/ML	2.53
38	106	884	14:44	3	1.026	A BB	240128.	100.000	NG/ML	2.53
39	104	959	15:59	3	1.113	A BB	514635.	100.000	NG/ML	2.53
40	106	957	15:57	3	1.110	A BB	315505.	100.000	NG/ML	2.53

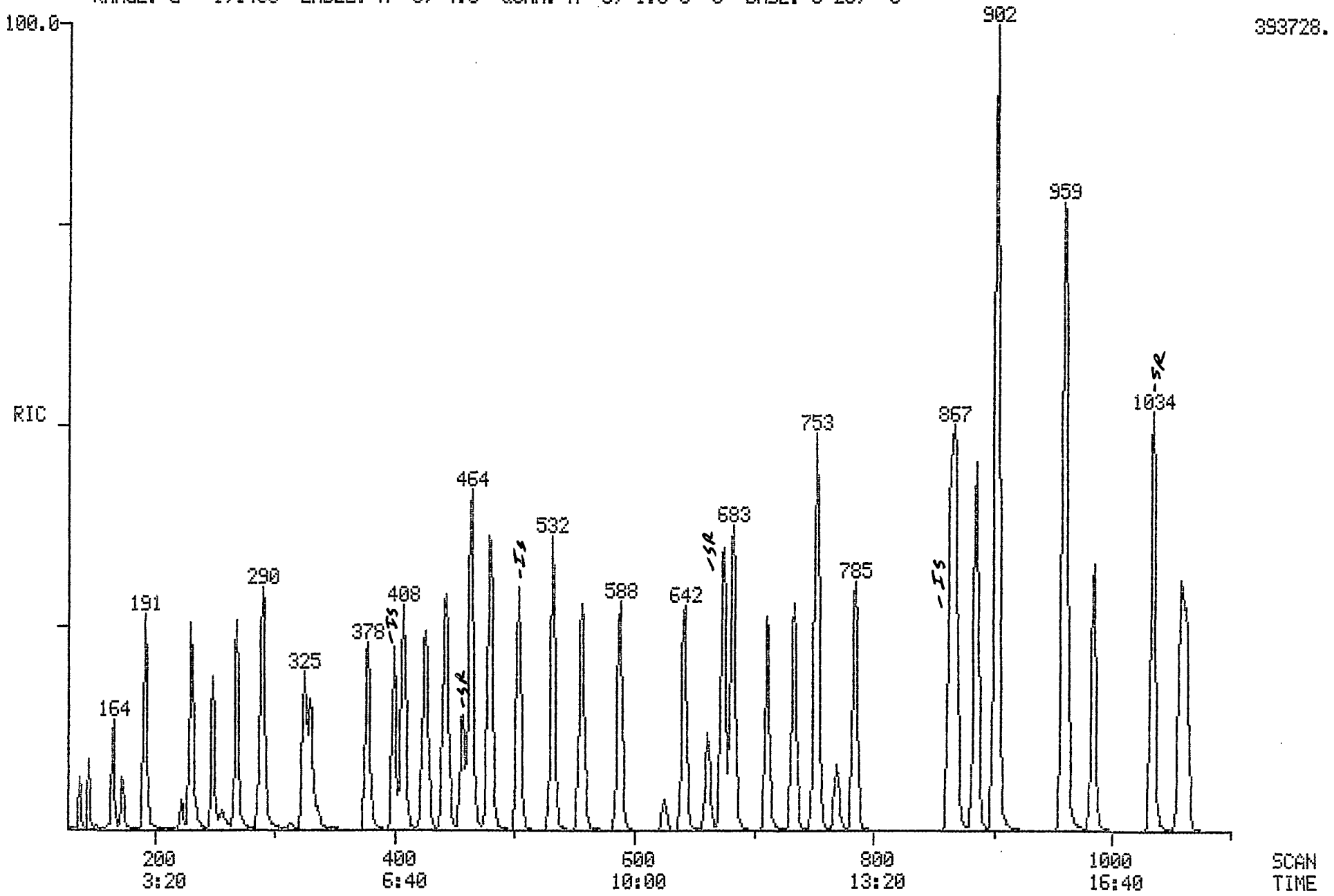
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:40	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.142	1.00	100.00	100.00	2.126	2.126	1.00
5	11:15	1.00	0.781	1.00	100.00	100.00	1.045	1.045	1.00
6	17:14	1.00	1.197	1.00	100.00	100.00	0.856	0.856	1.00
7	2:15	0.99	0.337	1.00	100.00	100.00	0.689	0.689	1.00
8	2:43	0.99	0.407	1.00	100.00	100.00	1.003	1.003	1.00
9	2:23	0.99	0.357	1.00	100.00	100.00	0.876	0.876	1.00
10	2:50	0.99	0.425	1.00	100.00	100.00	0.831	0.831	1.00
11	4:27	1.00	0.667	1.00	100.00	100.00	1.422	1.422	1.00
12	3:55	0.99	0.587	1.00	100.00	100.00	0.378	0.378	1.00
13	4:07	1.00	0.617	1.00	100.00	100.00	3.843	3.843	1.00
14	3:49	1.00	0.572	1.00	100.00	100.00	1.387	1.387	1.00
15	5:25	1.00	0.812	1.00	100.00	100.00	3.518	3.518	1.00
16	4:50	1.00	0.725	1.00	200.00	200.00	1.599	1.599	1.00
17	6:48	1.00	1.020	1.00	100.00	100.00	3.648	3.648	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.162	1.00	100.00	100.00	2.656	2.656	1.00
19	6:20	0.99	0.950	1.00	100.00	100.00	0.692	0.692	1.00
20	7:06	1.00	0.845	1.00	100.00	100.00	0.686	0.686	1.00
21	7:23	1.00	0.879	1.00	100.00	100.00	0.726	0.726	1.00
22	5:31	0.99	0.657	1.00	100.00	100.00	0.861	0.861	1.00
23	9:48	1.00	1.167	1.00	100.00	100.00	0.705	0.705	1.00
24	9:16	1.00	1.103	1.00	100.00	100.00	0.383	0.383	1.00
25	11:52	1.00	1.413	1.00	100.00	100.00	0.525	0.525	1.00
26	8:52	1.00	1.056	1.00	100.00	100.00	0.498	0.498	1.00
27	13:05	1.00	1.558	1.00	100.00	100.00	0.701	0.701	1.00
28	12:14	1.00	1.456	1.00	100.00	100.00	0.345	0.345	1.00
29	7:44	1.00	0.921	1.00	100.00	100.00	0.887	0.887	1.00
30	10:42	1.00	1.274	1.00	100.00	100.00	0.555	0.555	1.00
31	16:25	1.00	1.954	1.00	100.00	100.00	0.709	0.709	1.00
32	11:04	1.00	0.769	1.00	100.00	100.00	0.402	0.402	1.00
33	12:52	1.00	0.894	1.00	100.00	100.00	0.284	0.284	1.00
34	12:33	1.00	0.872	1.00	100.00	100.00	0.572	0.572	1.00
35	17:38	1.00	1.225	1.00	100.00	100.00	0.683	0.683	1.00
36	11:23	1.00	0.791	1.00	100.00	100.00	1.165	1.165	1.00
37	14:28	1.00	1.005	1.00	100.00	100.00	1.040	1.040	1.00
38	14:45	1.00	1.024	1.00	100.00	100.00	0.519	0.519	1.00
39	16:01	1.00	1.112	1.00	100.00	100.00	1.111	1.111	1.00
40	15:59	1.00	1.110	1.00	100.00	100.00	0.681	0.681	1.00

RIC
11/11/93 10:15:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1111 #1
CALI: 50VZ1111 #3

SCANS 125 TO 1100



Quantitation Report File: 50VZ1111

Data: 50VZ1111.TI
11/11/93 10:15:00
Sample: VSTD050
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	400	6:40	1	1.000	A BB	48222.	50.000 NG/ML	2.44
2	114	503	8:23	2	1.000	A BB	235618.	50.000 NG/ML	2.44
3	117	864	14:24	3	1.000	A BB	224541.	50.000 NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	457	7:37	1	1.142	A BB	101602.	50.000	NG/ML	2.44
5	98	675	11:15	3	0.781	A BB	229956.	50.000	NG/ML	2.44
6	95	1034	17:14	3	1.197	A BB	183081.	50.000	NG/UL	2.44
7	50	135	2:15	1	0.337	A BB	31949.	50.000	NG/ML	2.44
8	94	164	2:44	1	0.410	A BB	47252.	50.000	NG/ML	2.44
9	62	143	2:23	1	0.357	A BB	40454.	50.000	NG/ML	2.44
10	64	171	2:51	1	0.427	A BB	38468.	50.000	NG/ML	2.44
11	84	268	4:28	1	0.670	A BB	70498.	50.000	NG/ML	2.44
12	43	234	3:54	1	0.585	A BB	21107.	50.000	NG/ML	2.44
13	76	248	4:08	1	0.620	A BB	172194.	50.000	NG/ML	2.44
14	96	230	3:50	1	0.575	A BB	64854.	50.000	NG/ML	2.44
15	63	325	5:25	1	0.812	A BB	166057.	50.000	NG/ML	2.44
16	96	290	4:50	1	0.725	M XX DA7.	148779.	100.000	NG/ML	4.88
17	83	408	6:48	1	1.020	A BB 11/11/93	169396.	50.000	NG/ML	2.44
18	62	464	7:44	1	1.160	A BB	125506.	50.000	NG/ML	2.44
19	43	379	6:19	1	0.947	A BB	37844.	50.000	NG/ML	2.44
20	97	426	7:06	2	0.847	A BB	158452.	50.000	NG/ML	2.44
21	117	442	7:22	2	0.879	A BB	167441.	50.000	NG/ML	2.44
22	43	330	5:30	2	0.656	A BB	214333.	50.000	NG/ML	2.44
23	83	588	9:48	2	1.169	A BB	163957.	50.000	NG/ML	2.44
24	63	556	9:16	2	1.105	A BB	88784.	50.000	NG/ML	2.44
25	75	711	11:51	2	1.414	A BB	120742.	50.000	NG/ML	2.44
26	130	532	8:52	2	1.058	A BB	112677.	50.000	NG/ML	2.44
27	129	785	13:05	2	1.561	A BB	162265.	50.000	NG/ML	2.44
28	97	734	12:14	2	1.459	A BB	83242.	50.000	NG/ML	2.44
29	78	463	7:43	2	0.920	A BB	204149.	50.000	NG/ML	2.44
30	75	642	10:42	2	1.276	A BB	131240.	50.000	NG/ML	2.44
31	173	984	16:24	2	1.956	A BB	166338.	50.000	NG/ML	2.44
32	43	662	11:02	3	0.766	A BV	106129.	50.000	NG/ML	2.44
33	43	770	12:50	3	0.891	A BB	71718.	50.000	NG/ML	2.44
34	164	752	12:32	3	0.870	A BB	124476.	50.000	NG/ML	2.44
35	83	1058	17:38	3	1.225	A BB	156813.	50.000	NG/ML	2.44
36	91	683	11:23	3	0.791	A BB	256949.	50.000	NG/ML	2.44
37	112	868	14:28	3	1.005	A BB	228991.	50.000	NG/ML	2.44
38	106	885	14:45	3	1.024	A BB	110978.	50.000	NG/ML	2.44
39	104	960	16:00	3	1.111	A BB	241537.	50.000	NG/ML	2.44
40	106	958	15:58	3	1.109	A BB	144484.	50.000	NG/ML	2.44

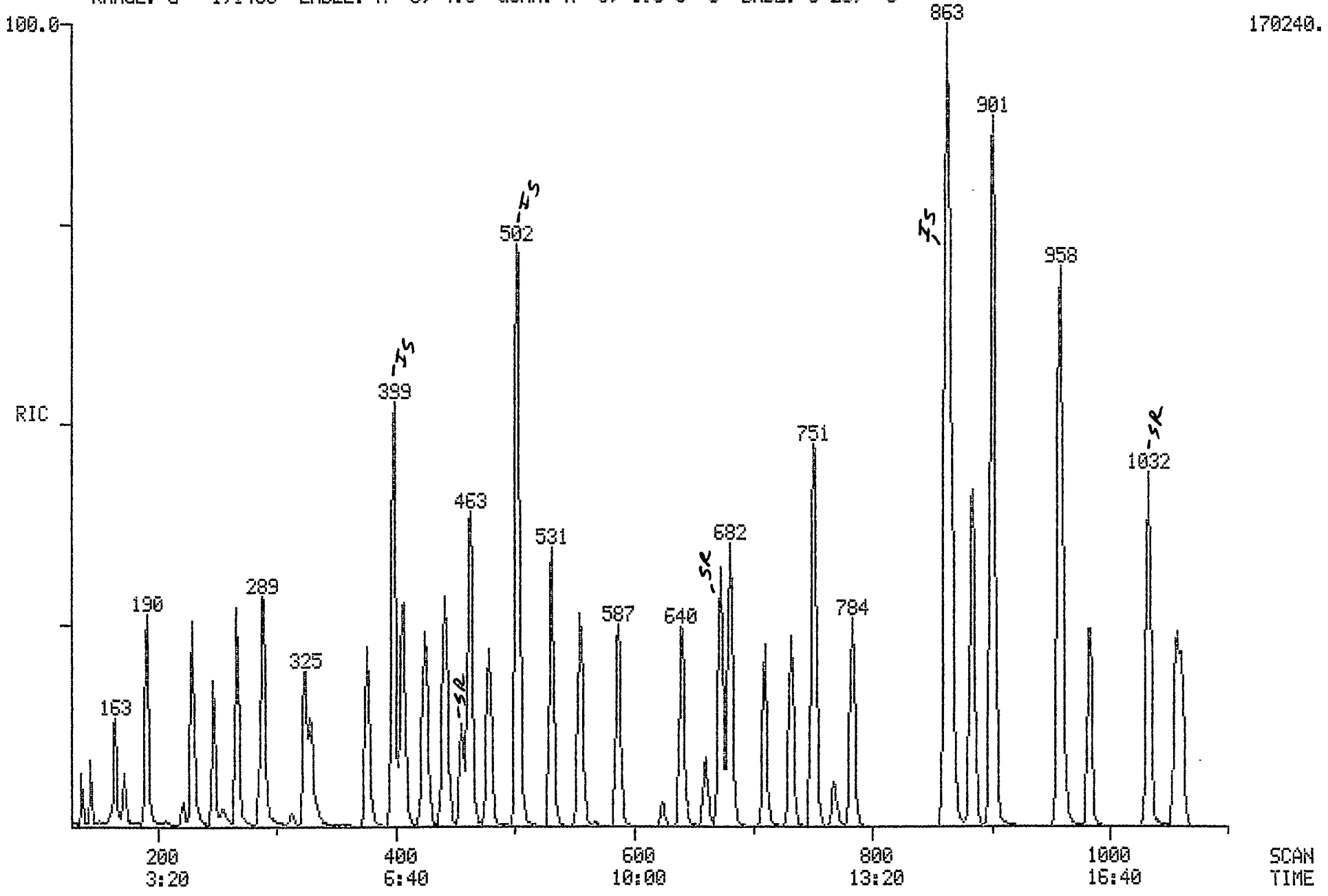
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.142	1.00	50.00	50.00	2.107	2.107	1.00
5	11:15	1.00	0.781	1.00	50.00	50.00	1.024	1.024	1.00
6	17:14	1.00	1.197	1.00	50.00	50.00	0.815	0.815	1.00
7	2:15	1.00	0.337	1.00	50.00	50.00	0.663	0.663	1.00
8	2:43	1.01	0.407	1.01	50.00	50.00	0.980	0.980	1.00
9	2:23	1.00	0.357	1.00	50.00	50.00	0.839	0.839	1.00
10	2:50	1.01	0.425	1.01	50.00	50.00	0.798	0.798	1.00
11	4:27	1.00	0.667	1.00	50.00	50.00	1.462	1.462	1.00
12	3:55	1.00	0.587	1.00	50.00	50.00	0.438	0.438	1.00
13	4:07	1.00	0.617	1.00	50.00	50.00	3.571	3.571	1.00
14	3:49	1.00	0.572	1.00	50.00	50.00	1.345	1.345	1.00
15	5:25	1.00	0.812	1.00	50.00	50.00	3.444	3.444	1.00
16	4:50	1.00	0.725	1.00	100.00	100.00	1.543	1.543	1.00
17	6:48	1.00	1.020	1.00	50.00	50.00	3.513	3.513	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.162	1.00	50.00	50.00	2.603	2.603	1.00
19	6:20	1.00	0.950	1.00	50.00	50.00	0.785	0.785	1.00
20	7:06	1.00	0.845	1.00	50.00	50.00	0.672	0.672	1.00
21	7:23	1.00	0.879	1.00	50.00	50.00	0.711	0.711	1.00
22	5:31	1.00	0.657	1.00	50.00	50.00	0.910	0.910	1.00
23	9:48	1.00	1.167	1.00	50.00	50.00	0.696	0.696	1.00
24	9:16	1.00	1.103	1.00	50.00	50.00	0.377	0.377	1.00
25	11:52	1.00	1.413	1.00	50.00	50.00	0.512	0.512	1.00
26	8:52	1.00	1.056	1.00	50.00	50.00	0.478	0.478	1.00
27	13:05	1.00	1.558	1.00	50.00	50.00	0.689	0.689	1.00
28	12:14	1.00	1.456	1.00	50.00	50.00	0.353	0.353	1.00
29	7:44	1.00	0.921	1.00	50.00	50.00	0.866	0.866	1.00
30	10:42	1.00	1.274	1.00	50.00	50.00	0.557	0.557	1.00
31	16:25	1.00	1.954	1.00	50.00	50.00	0.706	0.706	1.00
32	11:04	1.00	0.769	1.00	50.00	50.00	0.473	0.473	1.00
33	12:52	1.00	0.894	1.00	50.00	50.00	0.319	0.319	1.00
34	12:33	1.00	0.872	1.00	50.00	50.00	0.554	0.554	1.00
35	17:38	1.00	1.225	1.00	50.00	50.00	0.698	0.698	1.00
36	11:23	1.00	0.791	1.00	50.00	50.00	1.144	1.144	1.00
37	14:28	1.00	1.005	1.00	50.00	50.00	1.020	1.020	1.00
38	14:45	1.00	1.024	1.00	50.00	50.00	0.494	0.494	1.00
39	16:01	1.00	1.112	1.00	50.00	50.00	1.076	1.076	1.00
40	15:59	1.00	1.110	1.00	50.00	50.00	0.643	0.643	1.00

RIC
11/11/93 10:48:00
SAMPLE: VSTD020
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 20VZ1111 #1
CALI: 20VZ1111 #3

SCANS 125 TO 1100



Quantitation Report File: 20VZ1111

Data: 20VZ1111.TI
11/11/93 10:48:00
Sample: VSTD020
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	399	6:39	1	1.000	A BB	49831.	50.000 NG/ML	5.49
2	114	502	8:22	2	1.000	A BB	245101.	50.000 NG/ML	5.49
3	117	862	14:22	3	1.000	A BB	230083.	50.000 NG/ML	5.49

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
4	65	455	7:35	1	1.140	A BB	39930.	20.000 NG/ML	2.20
5	98	673	11:13	3	0.781	A BB	91832.	20.000 NG/ML	2.20
6	95	1032	17:12	3	1.197	A BB	70890.	20.000 NG/UL	2.20
7	50	134	2:14	1	0.336	A BB	12421.	20.000 NG/ML	2.20
8	94	163	2:43	1	0.409	A BB	20630.	20.000 NG/ML	2.20
9	62	142	2:22	1	0.356	A BB	16135.	20.000 NG/ML	2.20
10	64	170	2:50	1	0.426	A BB	16297.	20.000 NG/ML	2.20
11	84	267	4:27	1	0.669	A BB	31339.	20.000 NG/ML	2.20
12	43	233	3:53	1	0.584	A BB	7668.	20.000 NG/ML	2.20
13	76	247	4:07	1	0.619	A BB	69610.	20.000 NG/ML	2.20
14	96	229	3:49	1	0.574	A BB	27692.	20.000 NG/ML	2.20
15	63	324	5:24	1	0.812	A BB	70081.	20.000 NG/ML	2.20
16	96	289	4:49	1	0.724	M XX DAT. 11/11/93	63216.	40.000 NG/ML	4.40
17	83	407	6:47	1	1.020	A BB	73260.	20.000 NG/ML	2.20
18	62	463	7:43	1	1.160	A BB	49531.	20.000 NG/ML	2.20
19	43	378	6:18	1	0.947	A BB	14911.	20.000 NG/ML	2.20
20	97	425	7:05	2	0.847	A BB	68395.	20.000 NG/ML	2.20
21	117	441	7:21	2	0.878	A BB	72952.	20.000 NG/ML	2.20
22	43	329	5:29	2	0.655	A BB	77937.	20.000 NG/ML	2.20
23	83	587	9:47	2	1.169	A BB	63613.	20.000 NG/ML	2.20
24	63	555	9:15	2	1.106	A BB	35996.	20.000 NG/ML	2.20
25	75	710	11:50	2	1.414	A BB	45388.	20.000 NG/ML	2.20
26	130	531	8:51	2	1.058	A BB	47699.	20.000 NG/ML	2.20
27	129	783	13:03	2	1.560	A BB	60758.	20.000 NG/ML	2.20
28	97	733	12:13	2	1.460	A BB	31012.	20.000 NG/ML	2.20
29	78	462	7:42	2	0.920	A BB	86945.	20.000 NG/ML	2.20
30	75	640	10:40	2	1.275	A BB	51186.	20.000 NG/ML	2.20
31	173	982	16:22	2	1.956	A BB	54985.	20.000 NG/ML	2.20
32	43	661	11:01	3	0.767	A BV	34048.	20.000 NG/ML	2.20
33	43	768	12:48	3	0.891	A BB	21663.	20.000 NG/ML	2.20
34	164	751	12:31	3	0.871	A BB	52809.	20.000 NG/ML	2.20
35	83	1057	17:37	3	1.226	A BB	53587.	20.000 NG/ML	2.20
36	91	682	11:22	3	0.791	A BB	108496.	20.000 NG/ML	2.20
37	112	866	14:26	3	1.005	A BB	94177.	20.000 NG/ML	2.20
38	106	884	14:44	3	1.026	A BB	45683.	20.000 NG/ML	2.20
39	104	959	15:59	3	1.113	A BB	93922.	20.000 NG/ML	2.20
40	106	957	15:57	3	1.110	A BB	59029.	20.000 NG/ML	2.20

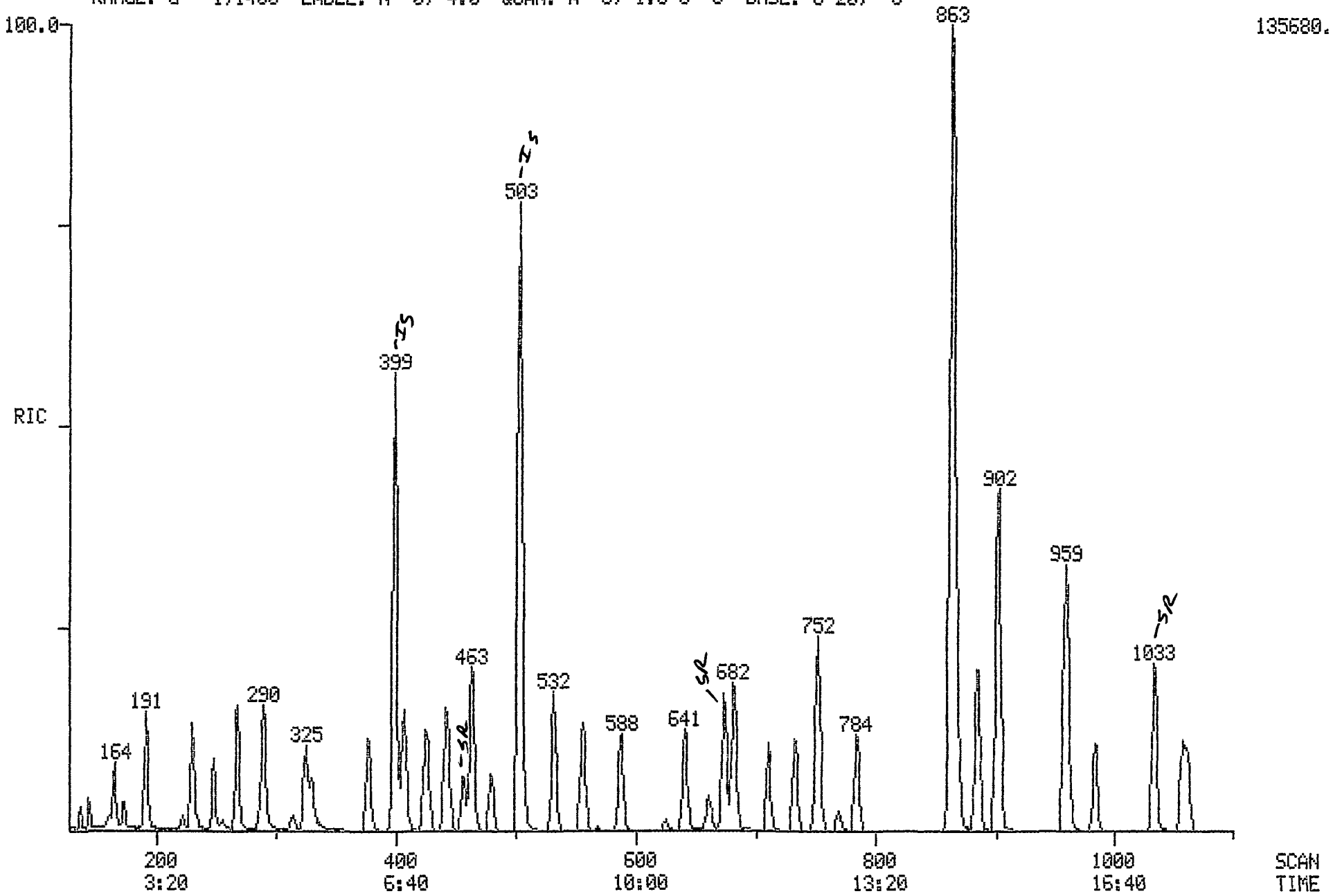
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.142	1.00	20.00	20.00	2.003	2.003	1.00
5	11:15	1.00	0.781	1.00	20.00	20.00	0.998	0.998	1.00
6	17:14	1.00	1.197	1.00	20.00	20.00	0.770	0.770	1.00
7	2:15	0.99	0.337	1.00	20.00	20.00	0.623	0.623	1.00
8	2:43	1.00	0.407	1.00	20.00	20.00	1.035	1.035	1.00
9	2:23	0.99	0.357	1.00	20.00	20.00	0.809	0.809	1.00
10	2:50	1.00	0.425	1.00	20.00	20.00	0.818	0.818	1.00
11	4:27	1.00	0.667	1.00	20.00	20.00	1.572	1.572	1.00
12	3:55	0.99	0.587	0.99	20.00	20.00	0.385	0.385	1.00
13	4:07	1.00	0.617	1.00	20.00	20.00	3.492	3.492	1.00
14	3:49	1.00	0.572	1.00	20.00	20.00	1.389	1.389	1.00
15	5:25	1.00	0.812	1.00	20.00	20.00	3.516	3.516	1.00
16	4:50	1.00	0.725	1.00	40.00	40.00	1.586	1.586	1.00
17	6:48	1.00	1.020	1.00	20.00	20.00	3.675	3.675	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.162	1.00	20.00	20.00	2.485	2.485	1.00
19	6:20	0.99	0.950	1.00	20.00	20.00	0.748	0.748	1.00
20	7:06	1.00	0.845	1.00	20.00	20.00	0.698	0.698	1.00
21	7:23	1.00	0.879	1.00	20.00	20.00	0.744	0.744	1.00
22	5:31	0.99	0.657	1.00	20.00	20.00	0.795	0.795	1.00
23	9:48	1.00	1.167	1.00	20.00	20.00	0.649	0.649	1.00
24	9:16	1.00	1.103	1.00	20.00	20.00	0.367	0.367	1.00
25	11:52	1.00	1.413	1.00	20.00	20.00	0.463	0.463	1.00
26	8:52	1.00	1.056	1.00	20.00	20.00	0.487	0.487	1.00
27	13:05	1.00	1.558	1.00	20.00	20.00	0.620	0.620	1.00
28	12:14	1.00	1.456	1.00	20.00	20.00	0.316	0.316	1.00
29	7:44	1.00	0.921	1.00	20.00	20.00	0.887	0.887	1.00
30	10:42	1.00	1.274	1.00	20.00	20.00	0.522	0.522	1.00
31	16:25	1.00	1.954	1.00	20.00	20.00	0.561	0.561	1.00
32	11:04	1.00	0.769	1.00	20.00	20.00	0.370	0.370	1.00
33	12:52	0.99	0.894	1.00	20.00	20.00	0.235	0.235	1.00
34	12:33	1.00	0.872	1.00	20.00	20.00	0.574	0.574	1.00
35	17:38	1.00	1.225	1.00	20.00	20.00	0.582	0.582	1.00
36	11:23	1.00	0.791	1.00	20.00	20.00	1.179	1.179	1.00
37	14:28	1.00	1.005	1.00	20.00	20.00	1.023	1.023	1.00
38	14:45	1.00	1.024	1.00	20.00	20.00	0.496	0.496	1.00
39	16:01	1.00	1.112	1.00	20.00	20.00	1.021	1.021	1.00
40	15:59	1.00	1.110	1.00	20.00	20.00	0.641	0.641	1.00

RIC
11/11/93 11:25:00
SAMPLE: VSTD010
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 10VZ1111 #1
CALI: 10VZ1111 #3

SCANS 125 TO 1100



Quantitation Report File: 10VZ1111

Data: 10VZ1111.TI
11/11/93 11:25:00
Sample: VSTD010
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	399	6:39	1	1.000	A BB	41246.	50.000 NG/ML	9.43
2	114	503	8:23	2	1.000	A BB	203767.	50.000 NG/ML	9.43
3	117	863	14:23	3	1.000	A BB	186407.	50.000 NG/ML	9.43

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	456	7:36	1	1.143	A BB	17090.	10.000	NG/ML	1.89
5	98	674	11:14	3	0.781	A BB	38314.	10.000	NG/ML	1.89
6	95	1033	17:13	3	1.197	A BB	27762.	10.000	NG/UL	1.89
7	50	135	2:15	1	0.338	A BB	4854.	10.000	NG/ML	1.89
8	94	164	2:44	1	0.411	A BB	10462.	10.000	NG/ML	1.89
9	62	142	2:22	1	0.356	A BB	6550.	10.000	NG/ML	1.89
10	64	172	2:52	1	0.431	A BB	6800.	10.000	NG/ML	1.89
11	84	267	4:27	1	0.669	A BB	14296.	10.000	NG/ML	1.89
12	43	233	3:53	1	0.584	A BB	3697.	10.000	NG/ML	1.89
13	76	248	4:08	1	0.622	A BB	27022.	10.000	NG/ML	1.89
14	96	230	3:50	1	0.576	A BB	11326.	10.000	NG/ML	1.89
15	63	325	5:25	1	0.815	A BB	29801.	10.000	NG/ML	1.89
16	96	290	4:50	1	0.727	M XX D.A.7.	26038.	20.000	NG/ML	3.77
17	83	407	6:47	1	1.020	A BB 11/11/93	30371.	10.000	NG/ML	1.89
18	62	464	7:44	1	1.163	A BB	21256.	10.000	NG/ML	1.89
19	43	379	6:19	1	0.950	A BB	6554.	10.000	NG/ML	1.89
20	97	425	7:05	2	0.845	A BB	29327.	10.000	NG/ML	1.89
21	117	442	7:22	2	0.879	A BB	30596.	10.000	NG/ML	1.89
22	43	330	5:30	2	0.656	A BB	31271.	10.000	NG/ML	1.89
23	83	588	9:48	2	1.169	A BB	25432.	10.000	NG/ML	1.89
24	63	556	9:16	2	1.105	A BB	14661.	10.000	NG/ML	1.89
25	75	711	11:51	2	1.414	A BB	17376.	10.000	NG/ML	1.89
26	130	531	8:51	2	1.056	A BB	19569.	10.000	NG/ML	1.89
27	129	784	13:04	2	1.559	A BB	22437.	10.000	NG/ML	1.89
28	97	733	12:13	2	1.457	A BB	12680.	10.000	NG/ML	1.89
29	78	463	7:43	2	0.920	A BB	36116.	10.000	NG/ML	1.89
30	75	641	10:41	2	1.274	A BB	20402.	10.000	NG/ML	1.89
31	173	983	16:23	2	1.954	A BB	19034.	10.000	NG/ML	1.89
32	43	661	11:01	3	0.766	A BV	13865.	10.000	NG/ML	1.89
33	43	769	12:49	3	0.891	A BV	8485.	10.000	NG/ML	1.89
34	164	752	12:32	3	0.871	A BB	21186.	10.000	NG/ML	1.89
35	83	1057	17:37	3	1.225	A BB	20465.	10.000	NG/ML	1.89
36	91	682	11:22	3	0.790	A BB	44860.	10.000	NG/ML	1.89
37	112	867	14:27	3	1.005	A BB	38021.	10.000	NG/ML	1.89
38	106	884	14:44	3	1.024	A BB	18462.	10.000	NG/ML	1.89
39	104	960	16:00	3	1.112	A BB	36689.	10.000	NG/ML	1.89
40	106	958	15:58	3	1.110	A BB	22442.	10.000	NG/ML	1.89

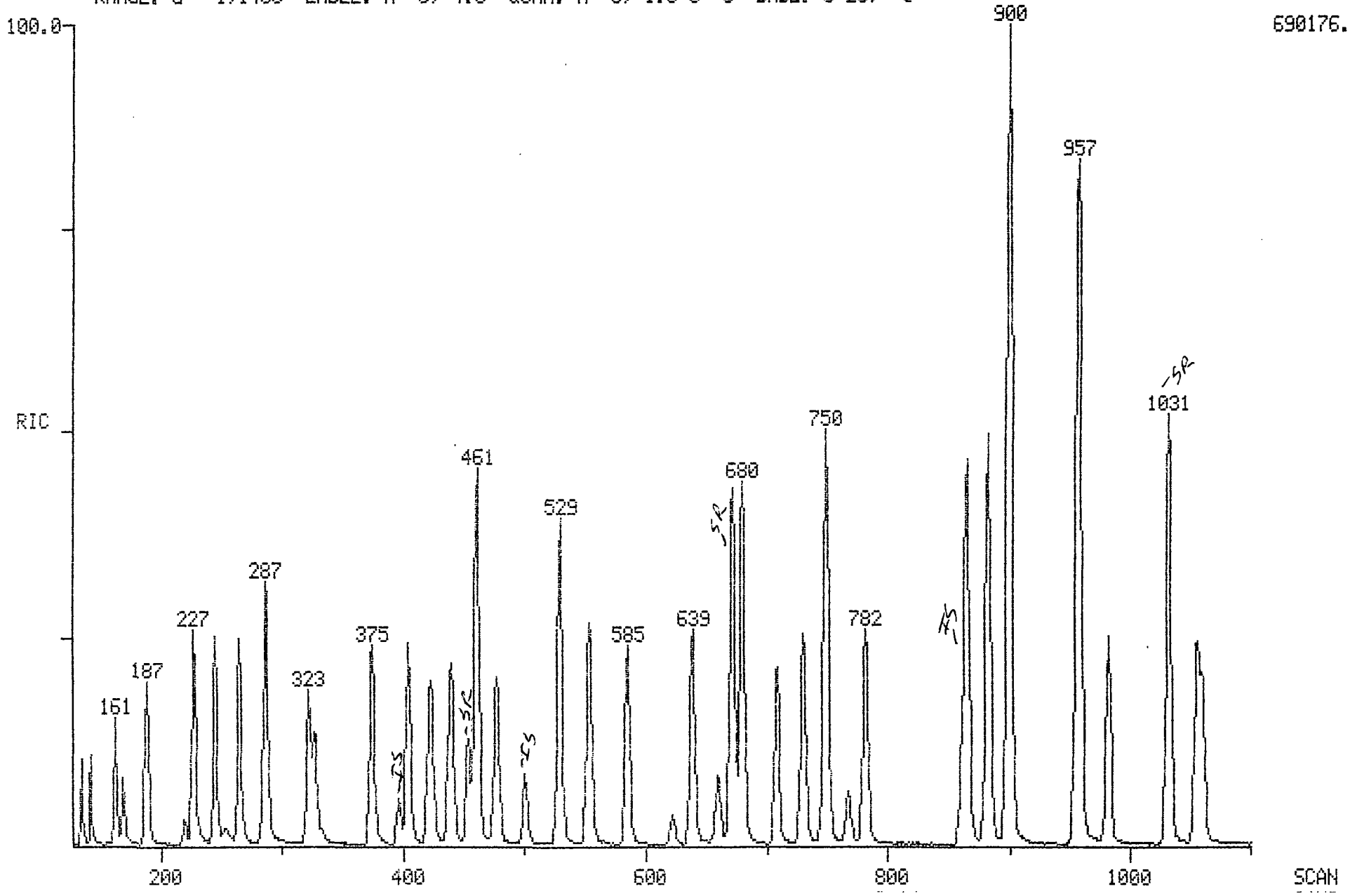
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.142	1.00	10.00	10.00	2.072	2.072	1.00
5	11:15	1.00	0.781	1.00	10.00	10.00	1.028	1.028	1.00
6	17:14	1.00	1.197	1.00	10.00	10.00	0.745	0.745	1.00
7	2:15	1.00	0.337	1.00	10.00	10.00	0.588	0.588	1.00
8	2:43	1.01	0.407	1.01	10.00	10.00	1.268	1.268	1.00
9	2:23	0.99	0.357	1.00	10.00	10.00	0.794	0.794	1.00
10	2:50	1.01	0.425	1.01	10.00	10.00	0.824	0.824	1.00
11	4:27	1.00	0.667	1.00	10.00	10.00	1.733	1.733	1.00
12	3:55	0.99	0.587	0.99	10.00	10.00	0.448	0.448	1.00
13	4:07	1.00	0.617	1.01	10.00	10.00	3.276	3.276	1.00
14	3:49	1.00	0.572	1.01	10.00	10.00	1.373	1.373	1.00
15	5:25	1.00	0.812	1.00	10.00	10.00	3.613	3.613	1.00
16	4:50	1.00	0.725	1.00	20.00	20.00	1.578	1.578	1.00
17	6:48	1.00	1.020	1.00	10.00	10.00	3.682	3.682	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.162	1.00	10.00	10.00	2.577	2.577	1.00
19	6:20	1.00	0.950	1.00	10.00	10.00	0.794	0.794	1.00
20	7:06	1.00	0.845	1.00	10.00	10.00	0.720	0.720	1.00
21	7:23	1.00	0.879	1.00	10.00	10.00	0.751	0.751	1.00
22	5:31	1.00	0.657	1.00	10.00	10.00	0.767	0.767	1.00
23	9:48	1.00	1.167	1.00	10.00	10.00	0.624	0.624	1.00
24	9:16	1.00	1.103	1.00	10.00	10.00	0.360	0.360	1.00
25	11:52	1.00	1.413	1.00	10.00	10.00	0.426	0.426	1.00
26	8:52	1.00	1.056	1.00	10.00	10.00	0.480	0.480	1.00
27	13:05	1.00	1.558	1.00	10.00	10.00	0.551	0.551	1.00
28	12:14	1.00	1.456	1.00	10.00	10.00	0.311	0.311	1.00
29	7:44	1.00	0.921	1.00	10.00	10.00	0.886	0.886	1.00
30	10:42	1.00	1.274	1.00	10.00	10.00	0.501	0.501	1.00
31	16:25	1.00	1.954	1.00	10.00	10.00	0.467	0.467	1.00
32	11:04	1.00	0.769	1.00	10.00	10.00	0.372	0.372	1.00
33	12:52	1.00	0.894	1.00	10.00	10.00	0.228	0.228	1.00
34	12:33	1.00	0.872	1.00	10.00	10.00	0.568	0.568	1.00
35	17:38	1.00	1.225	1.00	10.00	10.00	0.549	0.549	1.00
36	11:23	1.00	0.791	1.00	10.00	10.00	1.203	1.203	1.00
37	14:28	1.00	1.005	1.00	10.00	10.00	1.020	1.020	1.00
38	14:45	1.00	1.024	1.00	10.00	10.00	0.495	0.495	1.00
39	16:01	1.00	1.112	1.00	10.00	10.00	0.984	0.984	1.00
40	15:59	1.00	1.110	1.00	10.00	10.00	0.602	0.602	1.00

RIC
11/13/93 7:25:00
SAMPLE: VSTD200
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 200VZ1113 #1
CALI: 200VZ1113 #3

SCANS 125 TO 1100



Quantitation Report File: 200VZ1113

Data: 200VZ1113.TI
1/13/93 7:25:00
Sample: VSTD200
Cmpds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	397	6:37	1	1.000	A BB	24832.	50.000 NG/ML	0.65
2	114	501	8:21	2	1.000	A BB	123077.	50.000 NG/ML	0.65
3	117	861	14:21	3	1.000	A BB	108293.	50.000 NG/ML	0.65

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	454	7:34	1	1.144	A BB	121491.	200.000	NG/ML	2.58
5	98	672	11:12	3	0.780	A BB	503945.	200.000	NG/ML	2.58
6	95	1031	17:11	3	1.197	A BB	360678.	200.000	NG/UL	2.58
7	50	133	2:13	1	0.335	A BB	82041.	200.000	NG/ML	2.58
8	94	161	2:41	1	0.406	A BB	98154.	200.000	NG/ML	2.58
9	62	141	2:21	1	0.355	A BB	96093.	200.000	NG/ML	2.58
10	64	168	2:48	1	0.423	A BB	69972.	200.000	NG/ML	2.58
11	84	265	4:25	1	0.668	A BB	130141.	200.000	NG/ML	2.58
12	43	232	3:52	1	0.584	A BB	19892.	200.000	NG/ML	2.58
13	76	245	4:05	1	0.617	A BB	416409.	200.000	NG/ML	2.58
14	96	227	3:47	1	0.572	A BB	134392.	200.000	NG/ML	2.58
15	63	323	5:23	1	0.814	A BB	272753.	200.000	NG/ML	2.58
16	96	287	4:47	1	0.723	M XX	308376.	400.000	NG/ML	5.16
17	83	405	6:45	1	1.020	A BB	263809.	200.000	NG/ML	2.58
18	62	462	7:42	1	1.164	A BB	141929.	200.000	NG/ML	2.58
19	43	377	6:17	1	0.950	A BB	44967.	200.000	NG/ML	2.58
20	97	423	7:03	2	0.844	A BB	208639.	200.000	NG/ML	2.58
21	117	440	7:20	2	0.878	A BB	216359.	200.000	NG/ML	2.58
22	43	328	5:28	2	0.655	A BB	300992.	200.000	NG/ML	2.58
23	83	585	9:45	2	1.168	A BB	250250.	200.000	NG/ML	2.58
24	63	553	9:13	2	1.104	A BB	181914.	200.000	NG/ML	2.58
25	75	709	11:49	2	1.415	A BB	183647.	200.000	NG/ML	2.58
26	130	529	8:49	2	1.056	A BB	230637.	200.000	NG/ML	2.58
27	129	782	13:02	2	1.561	A BB	244281.	200.000	NG/ML	2.58
28	97	731	12:11	2	1.459	A BB	149950.	200.000	NG/ML	2.58
29	78	460	7:40	2	0.918	A BB	459215.	200.000	NG/ML	2.58
30	75	639	10:39	2	1.275	A BB	234432.	200.000	NG/ML	2.58
31	173	981	16:21	2	1.958	A BB	230986.	200.000	NG/ML	2.58
32	43	660	11:00	3	0.767	A BV	126015.	200.000	NG/ML	2.58
33	43	768	12:48	3	0.892	A BB	85061.	200.000	NG/ML	2.58
34	164	750	12:30	3	0.871	A BB	234769.	200.000	NG/ML	2.58
35	83	1055	17:35	3	1.225	A BB	245636.	200.000	NG/ML	2.58
36	91	680	11:20	3	0.790	A BB	542826.	200.000	NG/ML	2.58
37	112	865	14:25	3	1.005	A BB	450039.	200.000	NG/ML	2.58
38	106	882	14:42	3	1.024	A BB	226398.	200.000	NG/ML	2.58
39	104	958	15:58	3	1.113	A BB	480775.	200.000	NG/ML	2.58
40	106	955	15:55	3	1.109	A BB	293290.	200.000	NG/ML	2.58

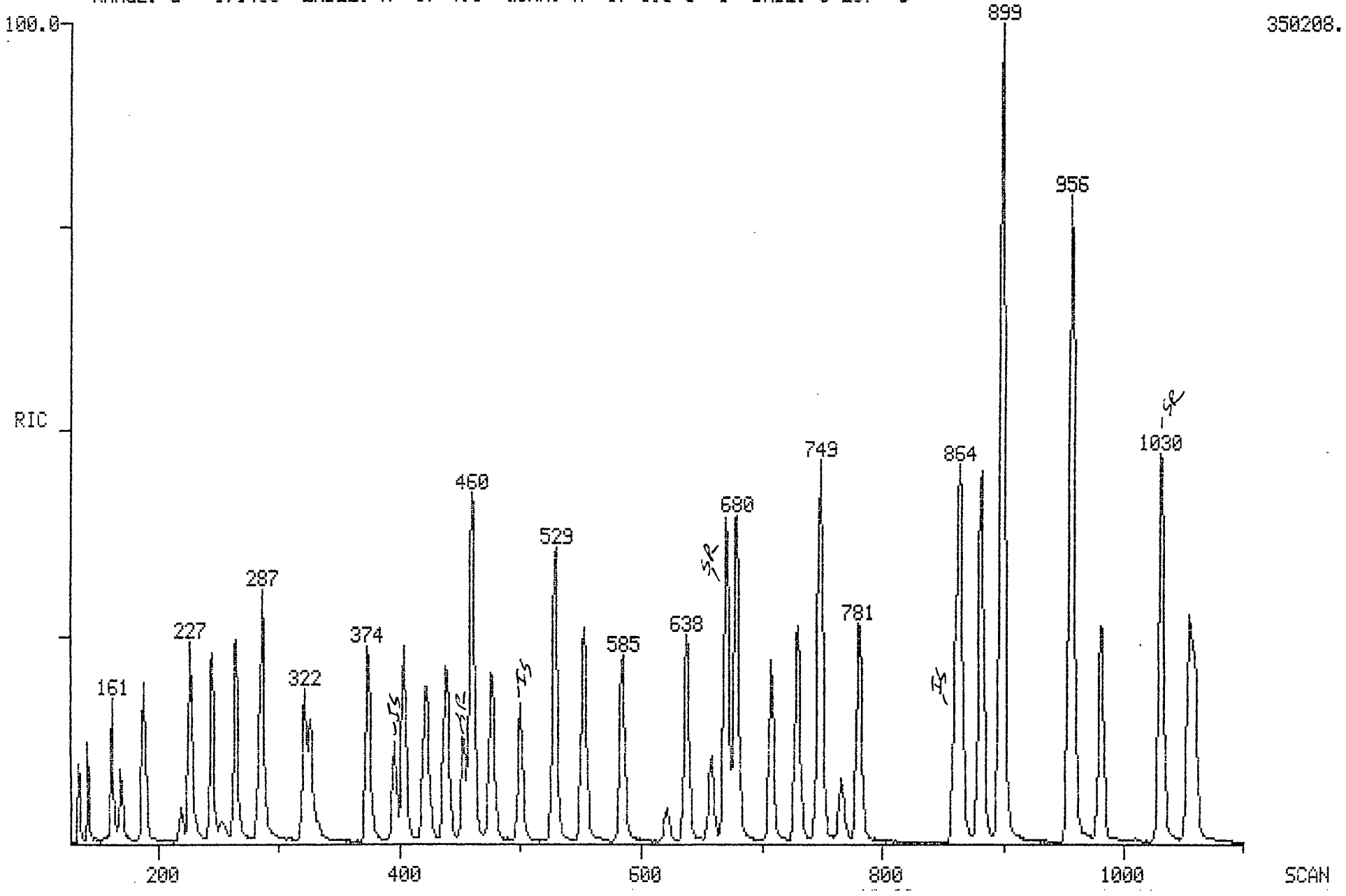
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	200.00	200.00	1.223	1.223	1.00
5	11:22	0.99	0.787	0.99	200.00	200.00	1.163	1.163	1.00
6	17:14	1.00	1.193	1.00	200.00	200.00	0.833	0.833	1.00
7	2:42	0.82	0.387	0.87	200.00	200.00	0.826	0.826	1.00
8	3:16	0.82	0.468	0.87	200.00	200.00	0.988	0.988	1.00
9	2:51	0.82	0.408	0.87	200.00	200.00	0.967	0.967	1.00
10	3:24	0.82	0.487	0.87	200.00	200.00	0.704	0.704	1.00
11	4:58	0.89	0.711	0.94	200.00	200.00	1.310	1.310	1.00
12	4:27	0.87	0.637	0.92	200.00	200.00	0.200	0.200	1.00
13	4:41	0.87	0.671	0.92	200.00	200.00	4.192	4.192	1.00
14	4:25	0.86	0.632	0.90	200.00	200.00	1.353	1.353	1.00
15	5:51	0.92	0.838	0.97	200.00	200.00	2.746	2.746	1.00
16	5:19	0.90	0.761	0.95	400.00	400.00	1.552	1.552	1.00
17	7:06	0.95	1.017	1.00	200.00	200.00	2.656	2.656	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.96	1.146	1.02	200.00	200.00	1.429	1.429	1.00
19	6:39	0.94	0.952	1.00	200.00	200.00	0.453	0.453	1.00
20	7:24	0.95	0.859	0.98	200.00	200.00	0.424	0.424	1.00
21	7:40	0.96	0.890	0.99	200.00	200.00	0.439	0.439	1.00
22	5:54	0.93	0.685	0.96	200.00	200.00	0.611	0.611	1.00
23	9:58	0.98	1.157	1.01	200.00	200.00	0.508	0.508	1.00
24	9:27	0.98	1.097	1.01	200.00	200.00	0.370	0.370	1.00
25	11:57	0.99	1.387	1.02	200.00	200.00	0.373	0.373	1.00
26	9:04	0.97	1.052	1.00	200.00	200.00	0.468	0.468	1.00
27	13:09	0.99	1.526	1.02	200.00	200.00	0.496	0.496	1.00
28	12:19	0.99	1.429	1.02	200.00	200.00	0.305	0.305	1.00
29	7:59	0.96	0.926	0.99	200.00	200.00	0.933	0.933	1.00
30	10:49	0.98	1.255	1.02	200.00	200.00	0.476	0.476	1.00
31	16:25	1.00	1.905	1.03	200.00	200.00	0.469	0.469	1.00
32	11:09	0.99	0.772	0.99	200.00	200.00	0.291	0.291	1.00
33	12:53	0.99	0.892	1.00	200.00	200.00	0.196	0.196	1.00
34	12:38	0.99	0.874	1.00	200.00	200.00	0.542	0.542	1.00
35	17:38	1.00	1.220	1.00	200.00	200.00	0.567	0.567	1.00
36	11:30	0.99	0.796	0.99	200.00	200.00	1.253	1.253	1.00
37	14:31	0.99	1.005	1.00	200.00	200.00	1.039	1.039	1.00
38	14:47	0.99	1.023	1.00	200.00	200.00	0.523	0.523	1.00
39	16:02	1.00	1.110	1.00	200.00	200.00	1.110	1.110	1.00
40	16:00	0.99	1.107	1.00	200.00	200.00	0.677	0.677	1.00

RIC
11/13/93 7:57:00
SAMPLE: VSTD100
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 100VZ1113 #1
CALI: 100VZ1113 #3

SCANS 125 TO 1100



uantitation Report File: 100VZ1113

ata: 100VZ1113.TI
1/13/93 7:57:00
ample: VSTD100
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ormula: Instrument: 026 Weight: 0.000
ubmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	396	6:36	1	1.000	A BB	25954.	50.000 NG/ML	1.27
2	114	500	8:20	2	1.000	A BB	123310.	50.000 NG/ML	1.27
3	117	860	14:20	3	1.000	A BB	110376.	50.000 NG/ML	1.27

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	453	7:33	1	1.144	A BB	63249.	100.000	NG/ML	2.53
5	98	671	11:11	3	0.780	A BB	239969.	100.000	NG/ML	2.53
6	95	1030	17:10	3	1.198	A BB	174148.	100.000	NG/UL	2.53
7	50	132	2:12	1	0.333	A BB	44579.	100.000	NG/ML	2.53
8	94	161	2:41	1	0.407	A BB	47594.	100.000	NG/ML	2.53
9	62	140	2:20	1	0.354	A BB	52066.	100.000	NG/ML	2.53
10	64	168	2:48	1	0.424	A BB	44191.	100.000	NG/ML	2.53
11	84	264	4:24	1	0.667	A BB	68842.	100.000	NG/ML	2.53
12	43	231	3:51	1	0.583	A BV	13037.	100.000	NG/ML	2.53
13	76	245	4:05	1	0.619	A BB	206175.	100.000	NG/ML	2.53
14	96	227	3:47	1	0.573	A BB	65602.	100.000	NG/ML	2.53
15	63	322	5:22	1	0.813	A BB	136674.	100.000	NG/ML	2.53
16	96	287	4:47	1	0.725	M XX D147 11/13/93	151587.	200.000	NG/ML	5.06
17	83	404	6:44	1	1.020	A BB	132888.	100.000	NG/ML	2.53
18	62	461	7:41	1	1.164	A BB	70883.	100.000	NG/ML	2.53
19	43	376	6:16	1	0.949	A BB	27850.	100.000	NG/ML	2.53
20	97	422	7:02	2	0.844	A BB	105321.	100.000	NG/ML	2.53
21	117	439	7:19	2	0.878	A BB	109746.	100.000	NG/ML	2.53
22	43	327	5:27	2	0.654	A BB	167112.	100.000	NG/ML	2.53
23	83	585	9:45	2	1.170	A BB	123042.	100.000	NG/ML	2.53
24	63	553	9:13	2	1.106	A BB	89835.	100.000	NG/ML	2.53
25	75	708	11:48	2	1.416	A BB	91024.	100.000	NG/ML	2.53
26	130	528	8:48	2	1.056	A BB	112841.	100.000	NG/ML	2.53
27	129	781	13:01	2	1.562	A BB	131104.	100.000	NG/ML	2.53
28	97	731	12:11	2	1.462	A BB	79679.	100.000	NG/ML	2.53
29	78	460	7:40	2	0.920	A BB	216206.	100.000	NG/ML	2.53
30	75	638	10:38	2	1.276	A BB	114812.	100.000	NG/ML	2.53
31	173	980	16:20	2	1.960	A BB	125139.	100.000	NG/ML	2.53
32	43	659	10:59	3	0.766	A BV	78517.	100.000	NG/ML	2.53
33	43	767	12:47	3	0.892	A BB	52781.	100.000	NG/ML	2.53
34	164	749	12:29	3	0.871	A BB	115772.	100.000	NG/ML	2.53
35	83	1055	17:35	3	1.227	A BB	139378.	100.000	NG/ML	2.53
36	91	679	11:19	3	0.790	A BB	259939.	100.000	NG/ML	2.53
37	112	864	14:24	3	1.005	A BB	222162.	100.000	NG/ML	2.53
38	106	882	14:42	3	1.026	A BB	107029.	100.000	NG/ML	2.53
39	104	957	15:57	3	1.113	A BB	226527.	100.000	NG/ML	2.53
40	106	955	15:55	3	1.110	A BB	139524.	100.000	NG/ML	2.53

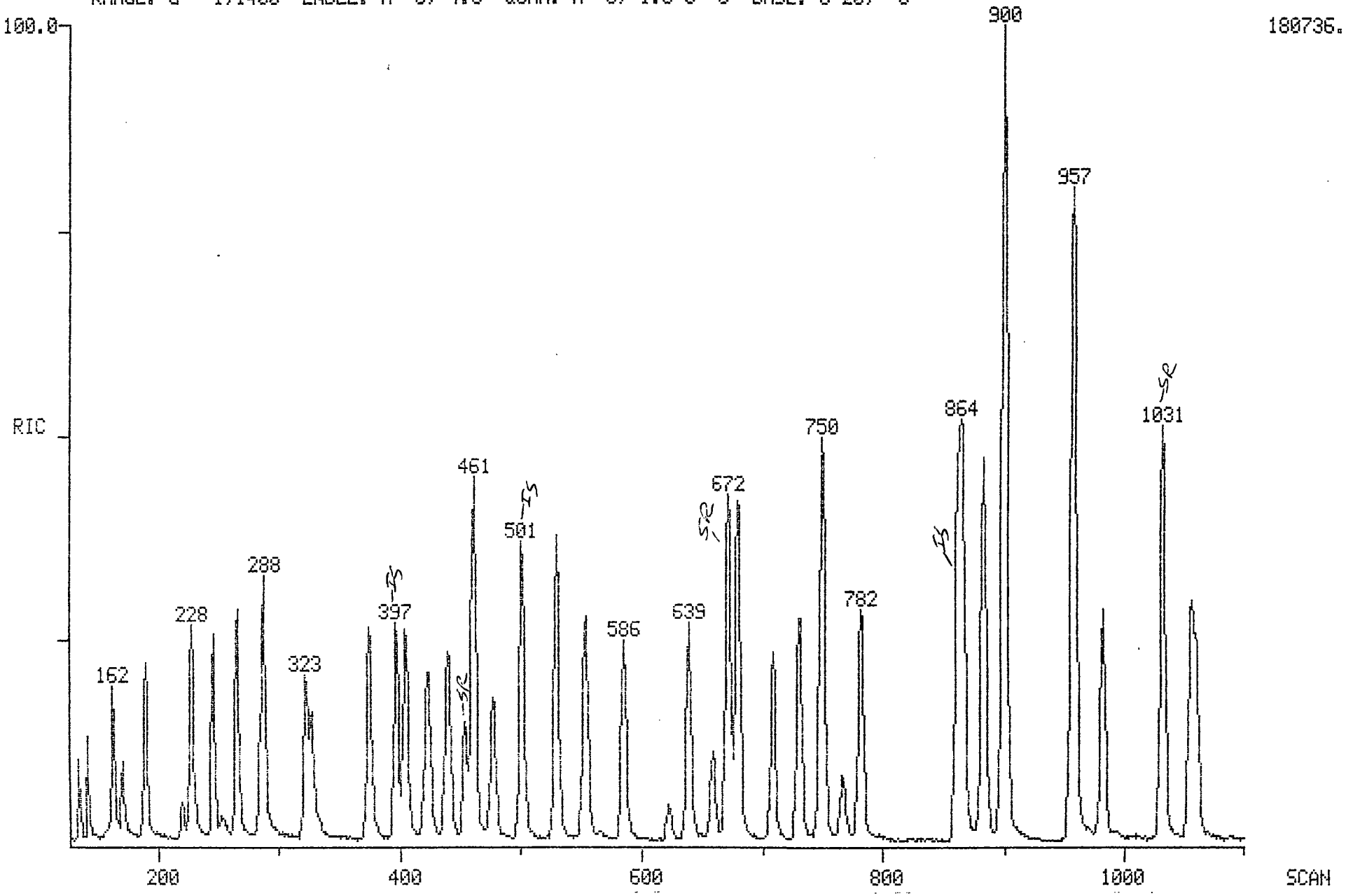
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	100.00	100.00	1.218	1.218	1.00
5	11:22	0.98	0.787	0.99	100.00	100.00	1.087	1.087	1.00
6	17:14	1.00	1.193	1.00	100.00	100.00	0.789	0.789	1.00
7	2:42	0.81	0.387	0.86	100.00	100.00	0.859	0.859	1.00
8	3:16	0.82	0.468	0.87	100.00	100.00	0.917	0.917	1.00
9	2:51	0.82	0.408	0.87	100.00	100.00	1.003	1.003	1.00
10	3:24	0.82	0.487	0.87	100.00	100.00	0.851	0.851	1.00
11	4:58	0.89	0.711	0.94	100.00	100.00	1.326	1.326	1.00
12	4:27	0.87	0.637	0.92	100.00	100.00	0.251	0.251	1.00
13	4:41	0.87	0.671	0.92	100.00	100.00	3.972	3.972	1.00
14	4:25	0.86	0.632	0.91	100.00	100.00	1.264	1.264	1.00
15	5:51	0.92	0.838	0.97	100.00	100.00	2.633	2.633	1.00
16	5:19	0.90	0.761	0.95	200.00	200.00	1.460	1.460	1.00
17	7:06	0.95	1.017	1.00	100.00	100.00	2.560	2.560	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.96	1.146	1.02	100.00	100.00	1.366	1.366	1.00
19	6:39	0.94	0.952	1.00	100.00	100.00	0.537	0.537	1.00
20	7:24	0.95	0.859	0.98	100.00	100.00	0.427	0.427	1.00
21	7:40	0.95	0.890	0.99	100.00	100.00	0.445	0.445	1.00
22	5:54	0.92	0.685	0.96	100.00	100.00	0.678	0.678	1.00
23	9:58	0.98	1.157	1.01	100.00	100.00	0.499	0.499	1.00
24	9:27	0.98	1.097	1.01	100.00	100.00	0.364	0.364	1.00
25	11:57	0.99	1.387	1.02	100.00	100.00	0.369	0.369	1.00
26	9:04	0.97	1.052	1.00	100.00	100.00	0.458	0.458	1.00
27	13:09	0.99	1.526	1.02	100.00	100.00	0.532	0.532	1.00
28	12:19	0.99	1.429	1.02	100.00	100.00	0.323	0.323	1.00
29	7:59	0.96	0.926	0.99	100.00	100.00	0.877	0.877	1.00
30	10:49	0.98	1.255	1.02	100.00	100.00	0.466	0.466	1.00
31	16:25	0.99	1.905	1.03	100.00	100.00	0.507	0.507	1.00
32	11:09	0.99	0.772	0.99	100.00	100.00	0.356	0.356	1.00
33	12:53	0.99	0.892	1.00	100.00	100.00	0.239	0.239	1.00
34	12:38	0.99	0.874	1.00	100.00	100.00	0.524	0.524	1.00
35	17:38	1.00	1.220	1.01	100.00	100.00	0.631	0.631	1.00
36	11:30	0.98	0.796	0.99	100.00	100.00	1.178	1.178	1.00
37	14:31	0.99	1.005	1.00	100.00	100.00	1.006	1.006	1.00
38	14:47	0.99	1.023	1.00	100.00	100.00	0.485	0.485	1.00
39	16:02	0.99	1.110	1.00	100.00	100.00	1.026	1.026	1.00
40	16:00	0.99	1.107	1.00	100.00	100.00	0.632	0.632	1.00

RIC
11/13/93 8:30:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1113 #1
CALI: 50VZ1113 #3

SCANS 125 TO 1100



uantitation Report File: 50VZ1113

ata: 50VZ1113.TI
1/13/93 8:30:00
ample: VSTD050
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ormula: Instrument: 026 Weight: 0.000
ubmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	397	6:37	1	1.000	A BB	29303.	50.000 NG/ML	2.44
2	114	501	8:21	2	1.000	A BB	140046.	50.000 NG/ML	2.44
3	117	861	14:21	3	1.000	A BB	120156.	50.000 NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	454	7:34	1	1.144	A BB	34975.	50.000	NG/ML	2.44
5	98	672	11:12	3	0.780	A BB	129825.	50.000	NG/ML	2.44
6	95	1031	17:11	3	1.197	A BB	92846.	50.000	NG/UL	2.44
7	50	134	2:14	1	0.338	A BB	24094.	50.000	NG/ML	2.44
8	94	162	2:42	1	0.408	A BB	31385.	50.000	NG/ML	2.44
9	62	141	2:21	1	0.355	A BB	28887.	50.000	NG/ML	2.44
10	64	170	2:50	1	0.428	A BB	23504.	50.000	NG/ML	2.44
11	84	266	4:26	1	0.670	A BB	39222.	50.000	NG/ML	2.44
12	43	232	3:52	1	0.584	A BB	7939.	50.000	NG/ML	2.44
13	76	246	4:06	1	0.620	A BB	109521.	50.000	NG/ML	2.44
14	96	228	3:48	1	0.574	A BB	35859.	50.000	NG/ML	2.44
15	63	323	5:23	1	0.814	A BB	73663.	50.000	NG/ML	2.44
16	96	288	4:48	1	0.725	M XX DAF 11/13/93	85705.	100.000	NG/ML	4.88
17	83	405	6:45	1	1.020	A BB	73121.	50.000	NG/ML	2.44
18	62	462	7:42	1	1.164	A BB	39401.	50.000	NG/ML	2.44
19	43	377	6:17	1	0.950	A BB	15093.	50.000	NG/ML	2.44
20	97	424	7:04	2	0.846	A BB	56752.	50.000	NG/ML	2.44
21	117	440	7:20	2	0.878	A BB	59982.	50.000	NG/ML	2.44
22	43	328	5:28	2	0.655	A BB	90092.	50.000	NG/ML	2.44
23	83	586	9:46	2	1.170	A BB	66482.	50.000	NG/ML	2.44
24	63	554	9:14	2	1.106	A BB	48724.	50.000	NG/ML	2.44
25	75	709	11:49	2	1.415	A BB	48691.	50.000	NG/ML	2.44
26	130	529	8:49	2	1.056	A BB	61306.	50.000	NG/ML	2.44
27	129	782	13:02	2	1.561	A BB	68974.	50.000	NG/ML	2.44
28	97	731	12:11	2	1.459	A BB	42671.	50.000	NG/ML	2.44
29	78	461	7:41	2	0.920	A BB	119969.	50.000	NG/ML	2.44
30	75	639	10:39	2	1.275	A BB	61564.	50.000	NG/ML	2.44
31	173	981	16:21	2	1.958	A BB	66582.	50.000	NG/ML	2.44
32	43	660	11:00	3	0.767	A BV	41940.	50.000	NG/ML	2.44
33	43	767	12:47	3	0.891	A BB	27970.	50.000	NG/ML	2.44
34	164	750	12:30	3	0.871	A BB	62918.	50.000	NG/ML	2.44
35	83	1055	17:35	3	1.225	A BB	73840.	50.000	NG/ML	2.44
36	91	680	11:20	3	0.790	A BB	142717.	50.000	NG/ML	2.44
37	112	865	14:25	3	1.005	A BB	119444.	50.000	NG/ML	2.44
38	106	882	14:42	3	1.024	A BB	60406.	50.000	NG/ML	2.44
39	104	958	15:58	3	1.113	A BB	120100.	50.000	NG/ML	2.44
40	106	956	15:56	3	1.110	A BB	73467.	50.000	NG/ML	2.44

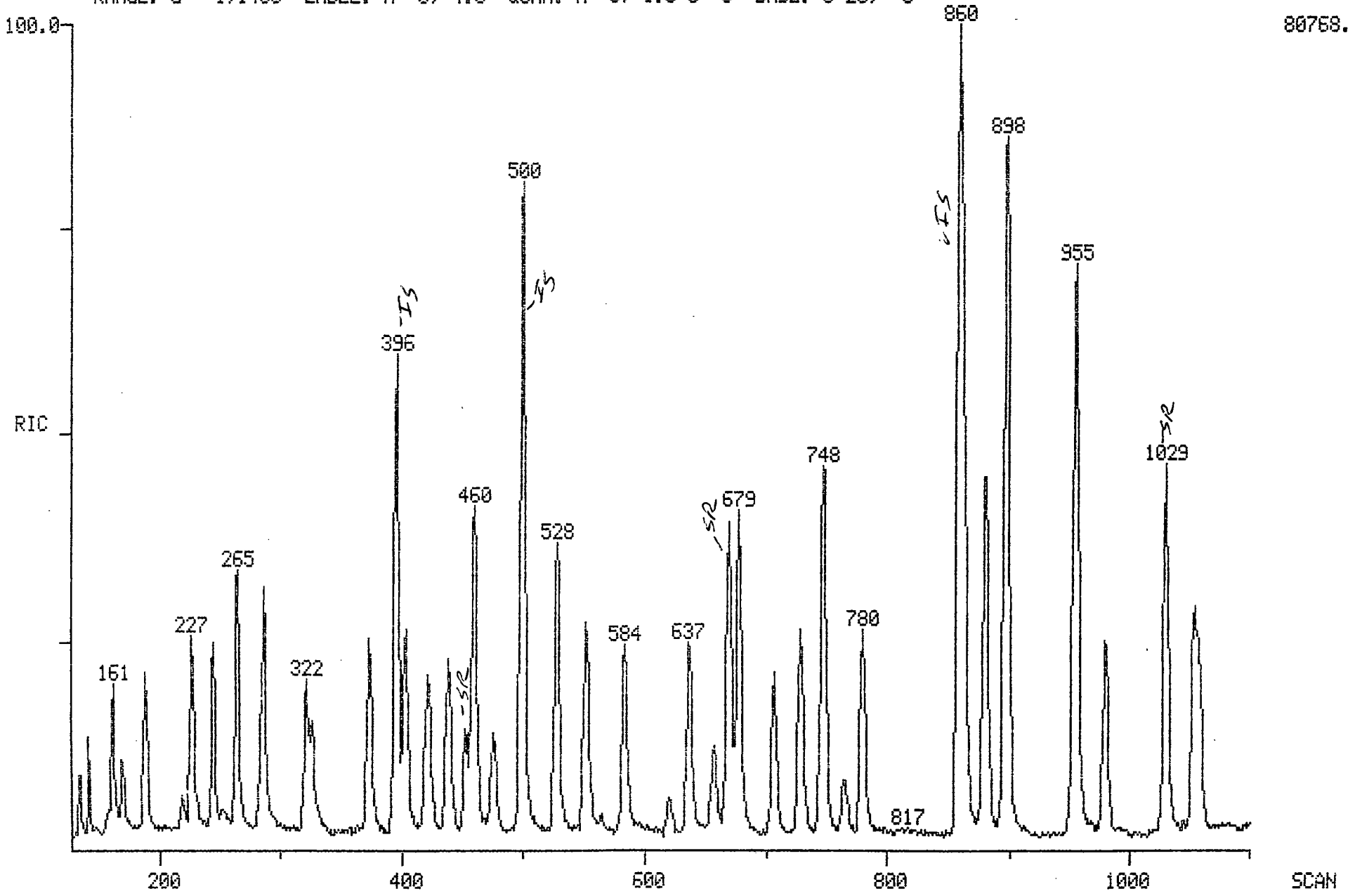
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	50.00	50.00	1.194	1.194	1.00
5	11:22	0.99	0.787	0.99	50.00	50.00	1.080	1.080	1.00
6	17:14	1.00	1.193	1.00	50.00	50.00	0.773	0.773	1.00
7	2:42	0.83	0.387	0.87	50.00	50.00	0.822	0.822	1.00
8	3:16	0.83	0.468	0.87	50.00	50.00	1.071	1.071	1.00
9	2:51	0.82	0.408	0.87	50.00	50.00	0.986	0.986	1.00
10	3:24	0.83	0.487	0.88	50.00	50.00	0.802	0.802	1.00
11	4:58	0.89	0.711	0.94	50.00	50.00	1.338	1.338	1.00
12	4:27	0.87	0.637	0.92	50.00	50.00	0.271	0.271	1.00
13	4:41	0.88	0.671	0.92	50.00	50.00	3.738	3.738	1.00
14	4:25	0.86	0.632	0.91	50.00	50.00	1.224	1.224	1.00
15	5:51	0.92	0.838	0.97	50.00	50.00	2.514	2.514	1.00
16	5:19	0.90	0.761	0.95	100.00	100.00	1.462	1.462	1.00
17	7:06	0.95	1.017	1.00	50.00	50.00	2.495	2.495	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.96	1.146	1.02	50.00	50.00	1.345	1.345	1.00
19	6:39	0.94	0.952	1.00	50.00	50.00	0.515	0.515	1.00
20	7:24	0.95	0.859	0.99	50.00	50.00	0.405	0.405	1.00
21	7:40	0.96	0.890	0.99	50.00	50.00	0.428	0.428	1.00
22	5:54	0.93	0.685	0.96	50.00	50.00	0.643	0.643	1.00
23	9:58	0.98	1.157	1.01	50.00	50.00	0.475	0.475	1.00
24	9:27	0.98	1.097	1.01	50.00	50.00	0.348	0.348	1.00
25	11:57	0.99	1.387	1.02	50.00	50.00	0.348	0.348	1.00
26	9:04	0.97	1.052	1.00	50.00	50.00	0.438	0.438	1.00
27	13:09	0.99	1.526	1.02	50.00	50.00	0.493	0.493	1.00
28	12:19	0.99	1.429	1.02	50.00	50.00	0.305	0.305	1.00
29	7:59	0.96	0.926	0.99	50.00	50.00	0.857	0.857	1.00
30	10:49	0.98	1.255	1.02	50.00	50.00	0.440	0.440	1.00
31	16:25	1.00	1.905	1.03	50.00	50.00	0.475	0.475	1.00
32	11:09	0.99	0.772	0.99	50.00	50.00	0.349	0.349	1.00
33	12:53	0.99	0.892	1.00	50.00	50.00	0.233	0.233	1.00
34	12:38	0.99	0.874	1.00	50.00	50.00	0.524	0.524	1.00
35	17:38	1.00	1.220	1.00	50.00	50.00	0.615	0.615	1.00
36	11:30	0.99	0.796	0.99	50.00	50.00	1.188	1.188	1.00
37	14:31	0.99	1.005	1.00	50.00	50.00	0.994	0.994	1.00
38	14:47	0.99	1.023	1.00	50.00	50.00	0.503	0.503	1.00
39	16:02	1.00	1.110	1.00	50.00	50.00	1.000	1.000	1.00
40	16:00	1.00	1.107	1.00	50.00	50.00	0.611	0.611	1.00

RIC
11/13/93 9:01:00
SAMPLE: VSTD020
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 20VZ1113 #1
CALI: 20VZ1113 #3

SCANS 125 TO 1100



2777

uantitation Report File: 20VZ1113

ata: 20VZ1113.TI
1/13/93 9:01:00
ample: VSTD020
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ormula: Instrument: 026 Weight: 0.000
ubmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	396	6:36	1	1.000	A BB	28809.	50.000	NG/ML	5.49
2	114	500	8:20	2	1.000	A BB	134662.	50.000	NG/ML	5.49
3	117	859	14:19	3	1.000	A BB	118993.	50.000	NG/ML	5.49

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	453	7:33	1	1.144	A BB	13824.	20.000	NG/ML	2.20
5	98	670	11:10	3	0.780	A BB	52961.	20.000	NG/ML	2.20
6	95	1029	17:09	3	1.198	A BB	36200.	20.000	NG/UL	2.20
7	50	132	2:12	1	0.333	A BV	9200.	20.000	NG/ML	2.20
8	94	161	2:41	1	0.407	A BB	11421.	20.000	NG/ML	2.20
9	62	140	2:20	1	0.354	A BB	11437.	20.000	NG/ML	2.20
10	64	168	2:48	1	0.424	A BB	9795.	20.000	NG/ML	2.20
11	84	264	4:24	1	0.667	A BB	20115.	20.000	NG/ML	2.20
12	43	231	3:51	1	0.583	A BB	3442.	20.000	NG/ML	2.20
13	76	245	4:05	1	0.619	A BB	44008.	20.000	NG/ML	2.20
14	96	227	3:47	1	0.573	A BV	14791.	20.000	NG/ML	2.20
15	63	322	5:22	1	0.813	A BB	30241.	20.000	NG/ML	2.20
16	96	287	4:47	1	0.725	M XX DA7 11/13/93	36904.	40.000	NG/ML	4.40
17	83	404	6:44	1	1.020	A BB	29418.	20.000	NG/ML	2.20
18	62	461	7:41	1	1.164	A BV	16042.	20.000	NG/ML	2.20
19	43	376	6:16	1	0.949	A BB	6720.	20.000	NG/ML	2.20
20	97	422	7:02	2	0.844	A BV	23425.	20.000	NG/ML	2.20
21	117	439	7:19	2	0.878	A BB	23399.	20.000	NG/ML	2.20
22	43	327	5:27	2	0.654	A BB	34280.	20.000	NG/ML	2.20
23	83	584	9:44	2	1.168	A BB	25436.	20.000	NG/ML	2.20
24	63	552	9:12	2	1.104	A BB	19638.	20.000	NG/ML	2.20
25	75	707	11:47	2	1.414	A BB	18941.	20.000	NG/ML	2.20
26	130	528	8:48	2	1.056	A BB	25116.	20.000	NG/ML	2.20
27	129	780	13:00	2	1.560	A BB	27596.	20.000	NG/ML	2.20
28	97	730	12:10	2	1.460	A BB	17406.	20.000	NG/ML	2.20
29	78	459	7:39	2	0.918	A BB	46756.	20.000	NG/ML	2.20
30	75	637	10:37	2	1.274	A BB	24283.	20.000	NG/ML	2.20
31	173	979	16:19	2	1.958	A BV	25177.	20.000	NG/ML	2.20
32	43	658	10:58	3	0.766	A BB	16796.	20.000	NG/ML	2.20
33	43	766	12:46	3	0.892	A BB	10450.	20.000	NG/ML	2.20
34	164	748	12:28	3	0.871	A BV	25467.	20.000	NG/ML	2.20
35	83	1053	17:33	3	1.226	A BB	29714.	20.000	NG/ML	2.20
36	91	679	11:19	3	0.790	A BB	58310.	20.000	NG/ML	2.20
37	112	863	14:23	3	1.005	A BB	48370.	20.000	NG/ML	2.20
38	106	880	14:40	3	1.024	A BB	24313.	20.000	NG/ML	2.20
39	104	956	15:56	3	1.113	A BB	47241.	20.000	NG/ML	2.20
40	106	954	15:54	3	1.111	A BB	28849.	20.000	NG/ML	2.20

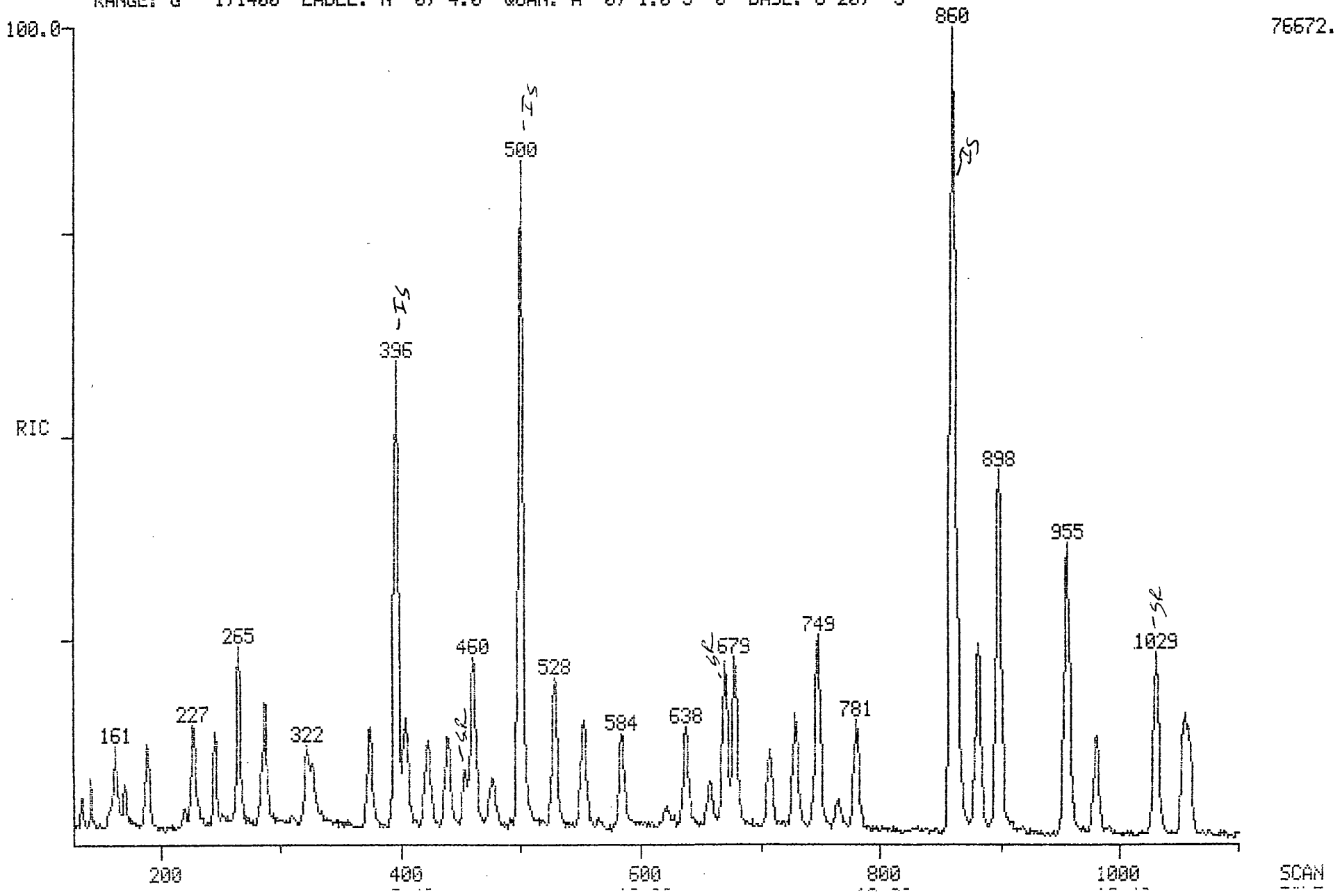
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	20.00	20.00	1.200	1.200	1.00
5	11:22	0.98	0.787	0.99	20.00	20.00	1.113	1.113	1.00
6	17:14	1.00	1.193	1.00	20.00	20.00	0.761	0.761	1.00
7	2:42	0.81	0.387	0.86	20.00	20.00	0.798	0.798	1.00
8	3:16	0.82	0.468	0.87	20.00	20.00	0.991	0.991	1.00
9	2:51	0.82	0.408	0.87	20.00	20.00	0.992	0.992	1.00
10	3:24	0.82	0.487	0.87	20.00	20.00	0.850	0.850	1.00
11	4:58	0.89	0.711	0.94	20.00	20.00	1.746	1.746	1.00
12	4:27	0.87	0.637	0.92	20.00	20.00	0.299	0.299	1.00
13	4:41	0.87	0.671	0.92	20.00	20.00	3.819	3.819	1.00
14	4:25	0.86	0.632	0.91	20.00	20.00	1.284	1.284	1.00
15	5:51	0.92	0.838	0.97	20.00	20.00	2.624	2.624	1.00
16	5:19	0.90	0.761	0.95	40.00	40.00	1.601	1.601	1.00
17	7:06	0.95	1.017	1.00	20.00	20.00	2.553	2.553	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.96	1.146	1.02	20.00	20.00	1.392	1.392	1.00
19	6:39	0.94	0.952	1.00	20.00	20.00	0.583	0.583	1.00
20	7:24	0.95	0.859	0.98	20.00	20.00	0.435	0.435	1.00
21	7:40	0.95	0.890	0.99	20.00	20.00	0.434	0.434	1.00
22	5:54	0.92	0.685	0.96	20.00	20.00	0.636	0.636	1.00
23	9:58	0.98	1.157	1.01	20.00	20.00	0.472	0.472	1.00
24	9:27	0.97	1.097	1.01	20.00	20.00	0.365	0.365	1.00
25	11:57	0.99	1.387	1.02	20.00	20.00	0.352	0.352	1.00
26	9:04	0.97	1.052	1.00	20.00	20.00	0.466	0.466	1.00
27	13:09	0.99	1.526	1.02	20.00	20.00	0.512	0.512	1.00
28	12:19	0.99	1.429	1.02	20.00	20.00	0.323	0.323	1.00
29	7:59	0.96	0.926	0.99	20.00	20.00	0.868	0.868	1.00
30	10:49	0.98	1.255	1.01	20.00	20.00	0.451	0.451	1.00
31	16:25	0.99	1.905	1.03	20.00	20.00	0.467	0.467	1.00
32	11:09	0.98	0.772	0.99	20.00	20.00	0.353	0.353	1.00
33	12:53	0.99	0.892	1.00	20.00	20.00	0.220	0.220	1.00
34	12:38	0.99	0.874	1.00	20.00	20.00	0.535	0.535	1.00
35	17:38	1.00	1.220	1.00	20.00	20.00	0.624	0.624	1.00
36	11:30	0.98	0.796	0.99	20.00	20.00	1.225	1.225	1.00
37	14:31	0.99	1.005	1.00	20.00	20.00	1.016	1.016	1.00
38	14:47	0.99	1.023	1.00	20.00	20.00	0.511	0.511	1.00
39	16:02	0.99	1.110	1.00	20.00	20.00	0.993	0.993	1.00
40	16:00	0.99	1.107	1.00	20.00	20.00	0.606	0.606	1.00

RIC
11/13/93 9:33:00
SAMPLE: VSTD010
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 10VZ1113 #1
CALI: 10VZ1113 #3

SCANS 125 TO 1100



uantitation Report File: 10VZ1113

ata: 10VZ1113.TI
1/13/93 9:33:00
ample: VSTD010
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ormula: Instrument: 026 Weight: 0.000
ubmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	396	6:36	1	1.000	A BB	27636.	50.000	NG/ML	9.43
2	114	500	8:20	2	1.000	A BB	128692.	50.000	NG/ML	9.43
3	117	860	14:20	3	1.000	A BB	117417.	50.000	NG/ML	9.43

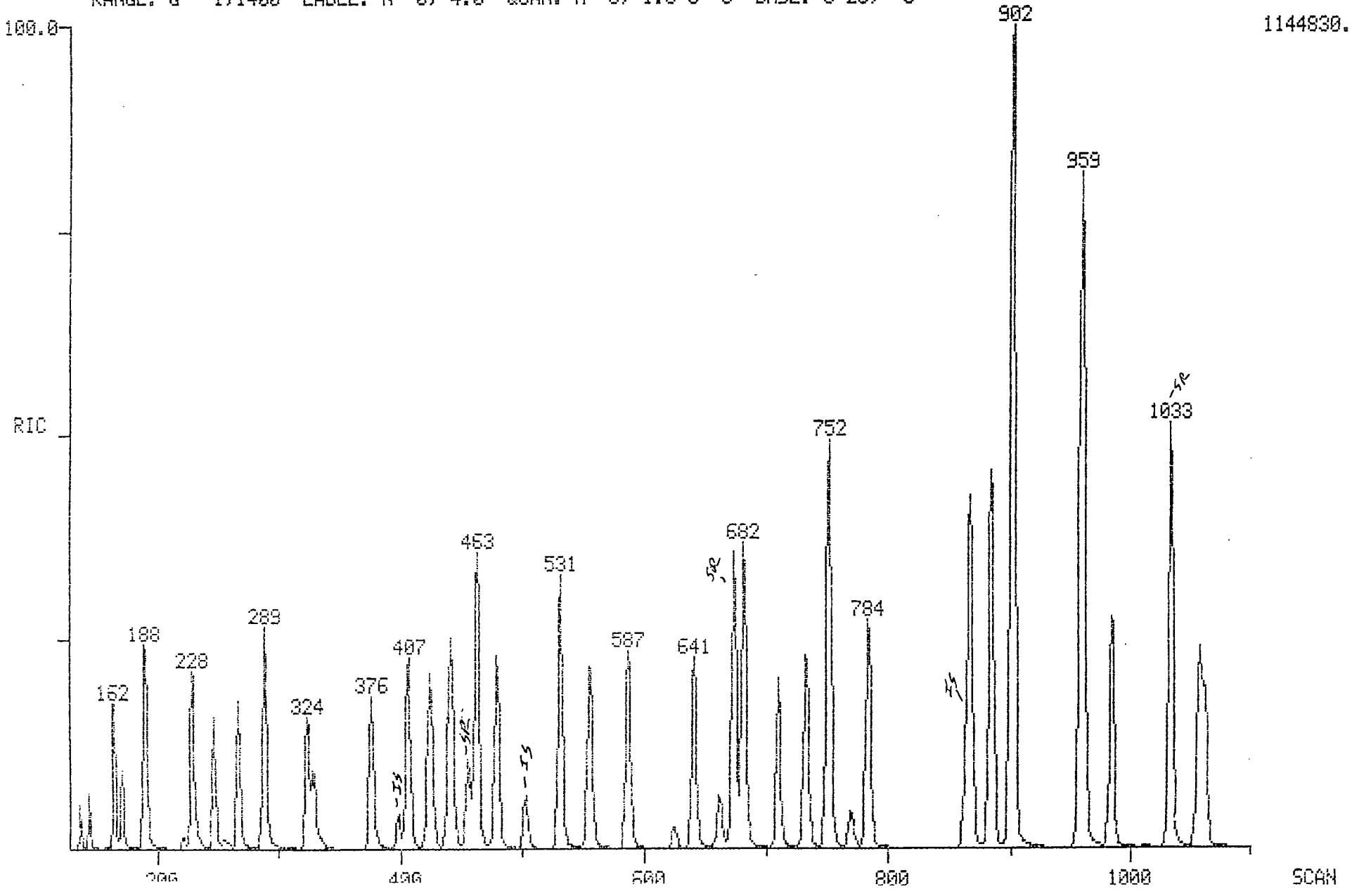
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	453	7:33	1	1.144	A BB	7308.	10.000	NG/ML	1.89
5	98	671	11:11	3	0.780	A BB	25758.	10.000	NG/ML	1.89
6	95	1030	17:10	3	1.198	A BB	18136.	10.000	NG/UL	1.89
7	50	133	2:13	1	0.336	A BB	4773.	10.000	NG/ML	1.89
8	94	161	2:41	1	0.407	A BV	7703.	10.000	NG/ML	1.89
9	62	140	2:20	1	0.354	A BB	5518.	10.000	NG/ML	1.89
10	64	169	2:49	1	0.427	A BB	4572.	10.000	NG/ML	1.89
11	84	265	4:25	1	0.669	A BB	13044.	10.000	NG/ML	1.89
12	43	231	3:51	1	0.583	A BB	2541.	10.000	NG/ML	1.89
13	76	245	4:05	1	0.619	A BB	20672.	10.000	NG/ML	1.89
14	96	227	3:47	1	0.573	A BV	7781.	10.000	NG/ML	1.89
15	63	323	5:23	1	0.816	A BB	15298.	10.000	NG/ML	1.89
16	96	288	4:48	1	0.727	M XX	18766.	20.000	NG/ML	3.77
17	83	404	6:44	1	1.020	A BV	14962.	10.000	NG/ML	1.89
18	62	461	7:41	1	1.164	A BB	7983.	10.000	NG/ML	1.89
19	43	376	6:16	1	0.949	A BB	3890.	10.000	NG/ML	1.89
20	97	423	7:03	2	0.846	A BB	11338.	10.000	NG/ML	1.89
21	117	439	7:19	2	0.878	A BB	11227.	10.000	NG/ML	1.89
22	43	327	5:27	2	0.654	A BB	16883.	10.000	NG/ML	1.89
23	83	584	9:44	2	1.168	A BV	13327.	10.000	NG/ML	1.89
24	63	553	9:13	2	1.106	A BB	9363.	10.000	NG/ML	1.89
25	75	708	11:48	2	1.416	A BB	8189.	10.000	NG/ML	1.89
26	130	528	8:48	2	1.056	A BB	11597.	10.000	NG/ML	1.89
27	129	781	13:01	2	1.562	A BB	13353.	10.000	NG/ML	1.89
28	97	730	12:10	2	1.460	A BB	9272.	10.000	NG/ML	1.89
29	78	460	7:40	2	0.920	A BB	23627.	10.000	NG/ML	1.89
30	75	638	10:38	2	1.276	A BB	11261.	10.000	NG/ML	1.89
31	173	980	16:20	2	1.960	A BB	11322.	10.000	NG/ML	1.89
32	43	658	10:58	3	0.765	A BB	7911.	10.000	NG/ML	1.89
33	43	766	12:46	3	0.891	A BB	5063.	10.000	NG/ML	1.89
34	164	749	12:29	3	0.871	A BB	12417.	10.000	NG/ML	1.89
35	83	1053	17:33	3	1.224	A BB	14870.	10.000	NG/ML	1.89
36	91	679	11:19	3	0.790	A BB	28967.	10.000	NG/ML	1.89
37	112	864	14:24	3	1.005	A BB	24116.	10.000	NG/ML	1.89
38	106	881	14:41	3	1.024	A BB	11297.	10.000	NG/ML	1.89
39	104	956	15:56	3	1.112	A BB	22949.	10.000	NG/ML	1.89
40	106	954	15:54	3	1.109	A BV	15122.	10.000	NG/ML	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	10.00	10.00	1.322	1.322	1.00
5	11:22	0.98	0.787	0.99	10.00	10.00	1.097	1.097	1.00
6	17:14	1.00	1.193	1.00	10.00	10.00	0.772	0.772	1.00
7	2:42	0.82	0.387	0.87	10.00	10.00	0.864	0.864	1.00
8	3:16	0.82	0.468	0.87	10.00	10.00	1.394	1.394	1.00
9	2:51	0.82	0.408	0.87	10.00	10.00	0.998	0.998	1.00
10	3:24	0.83	0.487	0.88	10.00	10.00	0.827	0.827	1.00
11	4:58	0.89	0.711	0.94	10.00	10.00	2.360	2.360	1.00
12	4:27	0.87	0.637	0.92	10.00	10.00	0.460	0.460	1.00
13	4:41	0.87	0.671	0.92	10.00	10.00	3.740	3.740	1.00
14	4:25	0.86	0.632	0.91	10.00	10.00	1.408	1.408	1.00
15	5:51	0.92	0.838	0.97	10.00	10.00	2.768	2.768	1.00
16	5:19	0.90	0.761	0.96	20.00	20.00	1.698	1.698	1.00
17	7:06	0.95	1.017	1.00	10.00	10.00	2.707	2.707	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.96	1.146	1.02	10.00	10.00	1.444	1.444	1.00
19	6:39	0.94	0.952	1.00	10.00	10.00	0.704	0.704	1.00
20	7:24	0.95	0.859	0.99	10.00	10.00	0.440	0.440	1.00
21	7:40	0.95	0.890	0.99	10.00	10.00	0.436	0.436	1.00
22	5:54	0.92	0.685	0.96	10.00	10.00	0.656	0.656	1.00
23	9:58	0.98	1.157	1.01	10.00	10.00	0.518	0.518	1.00
24	9:27	0.98	1.097	1.01	10.00	10.00	0.364	0.364	1.00
25	11:57	0.99	1.387	1.02	10.00	10.00	0.318	0.318	1.00
26	9:04	0.97	1.052	1.00	10.00	10.00	0.451	0.451	1.00
27	13:09	0.99	1.526	1.02	10.00	10.00	0.519	0.519	1.00
28	12:19	0.99	1.429	1.02	10.00	10.00	0.360	0.360	1.00
29	7:59	0.96	0.926	0.99	10.00	10.00	0.918	0.918	1.00
30	10:49	0.98	1.255	1.02	10.00	10.00	0.438	0.438	1.00
31	16:25	0.99	1.905	1.03	10.00	10.00	0.440	0.440	1.00
32	11:09	0.98	0.772	0.99	10.00	10.00	0.337	0.337	1.00
33	12:53	0.99	0.892	1.00	10.00	10.00	0.216	0.216	1.00
34	12:38	0.99	0.874	1.00	10.00	10.00	0.529	0.529	1.00
35	17:38	1.00	1.220	1.00	10.00	10.00	0.633	0.633	1.00
36	11:30	0.98	0.796	0.99	10.00	10.00	1.234	1.234	1.00
37	14:31	0.99	1.005	1.00	10.00	10.00	1.027	1.027	1.00
38	14:47	0.99	1.023	1.00	10.00	10.00	0.481	0.481	1.00
39	16:02	0.99	1.110	1.00	10.00	10.00	0.977	0.977	1.00
40	16:00	0.99	1.107	1.00	10.00	10.00	0.644	0.644	1.00

RIC
11/24/93 9:28:00
SAMPLE: VSTD200
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 200VZ1124 #1 SCANS 125 TO 1100
CALI: 200VZ1124 #3



antitation Report File: 200VZ1124

ta: 200VZ1124.TI
/24/93 9:28:00
mple: VSTD200
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
rmula: Instrument: 026 Weight: 0.000
bmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

OUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
sp. fac. from Library Entry

o	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
0	C025 CHLOROETHANE
1	C030 METHYLENE CHLORIDE
2	C035 ACETONE
3	C040 CARBON DISULFIDE
4	C045 1,1-DICHLOROETHENE
5	C050 1,1-DICHLOROETHANE
6	C055 TOTAL 1,2-DICHLOROETHENE
7	C060 CHLOROFORM
8	C065 1,2-DICHLOROETHANE
9	C110 2-BUTANONE
0	C115 1,1,1-TRICHLOROETHANE
1	C120 CARBON TETRACHLORIDE
2	C125 VINYL ACETATE
3	C130 BROMODICHLOROMETHANE
4	C140 1,2-DICHLOROPROPANE
5	C170 TRANS-1,3-DICHLOROPROPENE
6	C150 TRICHLOROETHENE
7	C155 DIBROMOCHLOROMETHANE
8	C160 1,1,2-TRICHLOROETHANE
9	C165 BENZENE
0	C145 CIS-1,3-DICHLOROPROPENE
1	C180 BROMOFORM
2	C205 4-METHYL-2-PENTANONE
3	C210 2-HEXANONE
4	C220 TETRACHLOROETHENE
5	C225 1,1,2,2-TETRACHLOROETHANE
6	C230 TOLUENE
7	C235 CHLOROBENZENE
8	C240 ETHYLBENZENE
9	C245 STYRENE
0	C250 TOTAL XYLENES

lo	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	398	6:38	1	1.000	A BB	30280.	50.000 NG/ML	0.65
2	114	503	8:23	2	1.000	A BB	146843.	50.000 NG/ML	0.65
3	117	863	14:23	3	1.000	A BB	152157.	50.000 NG/ML	0.65

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	456	7:36	1	1.146	A BB	206795.	200.000	NG/ML	2.58
5	98	674	11:14	3	0.781	A BB	662777.	200.000	NG/ML	2.58
6	95	1033	17:13	3	1.197	A BB	537405.	200.000	NG/UL	2.58
7	50	134	2:14	1	0.337	A BV	65517.	200.000	NG/ML	2.58
8	94	162	2:42	1	0.407	A BV	180395.	200.000	NG/ML	2.58
9	62	142	2:22	1	0.357	A BB	88652.	200.000	NG/ML	2.58
0	64	169	2:49	1	0.425	A BB	121910.	200.000	NG/ML	2.58
1	84	266	4:26	1	0.668	A BB	151855.	200.000	NG/ML	2.58
2	43	233	3:53	1	0.585	A BB	28646.	200.000	NG/ML	2.58
3	76	246	4:06	1	0.618	A BB	426691.	200.000	NG/ML	2.58
4	96	228	3:48	1	0.573	A BB	168789.	200.000	NG/ML	2.58
5	63	324	5:24	1	0.814	A BB	353273.	200.000	NG/ML	2.58
6	96	289	4:49	1	0.726	M XX PA7 11/24/93	362540.	400.000	NG/ML	5.16
7	83	407	6:47	1	1.023	A BB	408910.	200.000	NG/ML	2.58
8	62	463	7:43	1	1.163	A BB	263769.	200.000	NG/ML	2.58
9	43	379	6:19	1	0.952	A BB	48358.	200.000	NG/ML	2.58
0	97	425	7:05	2	0.845	A BB	375167.	200.000	NG/ML	2.58
1	117	442	7:22	2	0.879	A BB	426657.	200.000	NG/ML	2.58
2	43	329	5:29	2	0.654	A BB	338462.	200.000	NG/ML	2.58
3	83	587	9:47	2	1.167	A BB	388276.	200.000	NG/ML	2.58
4	63	555	9:15	2	1.103	A BB	200301.	200.000	NG/ML	2.58
5	75	711	11:51	2	1.414	A BB	270228.	200.000	NG/ML	2.58
6	130	531	8:51	2	1.056	A BB	296105.	200.000	NG/ML	2.58
7	129	784	13:04	2	1.559	A BB	428805.	200.000	NG/ML	2.58
8	97	733	12:13	2	1.457	A BB	206816.	200.000	NG/ML	2.58
9	78	462	7:42	2	0.918	A BB	486790.	200.000	NG/ML	2.58
0	75	641	10:41	2	1.274	A BB	301572.	200.000	NG/ML	2.58
1	173	983	16:23	2	1.954	A BB	398761.	200.000	NG/ML	2.58
2	43	662	11:02	3	0.767	A BV	148675.	200.000	NG/ML	2.58
3	43	770	12:50	3	0.892	A BB	102154.	200.000	NG/ML	2.58
4	164	752	12:32	3	0.871	A BB	341751.	200.000	NG/ML	2.58
5	83	1057	17:37	3	1.225	A BB	354768.	200.000	NG/ML	2.58
6	91	682	11:22	3	0.790	A BB	710188.	200.000	NG/ML	2.58
7	112	867	14:27	3	1.005	A BB	639326.	200.000	NG/ML	2.58
8	106	884	14:44	3	1.024	A BB	325276.	200.000	NG/ML	2.58
9	104	960	16:00	3	1.112	A BB	694884.	200.000	NG/ML	2.58
0	106	958	15:58	3	1.110	A BB	429557.	200.000	NG/ML	2.58

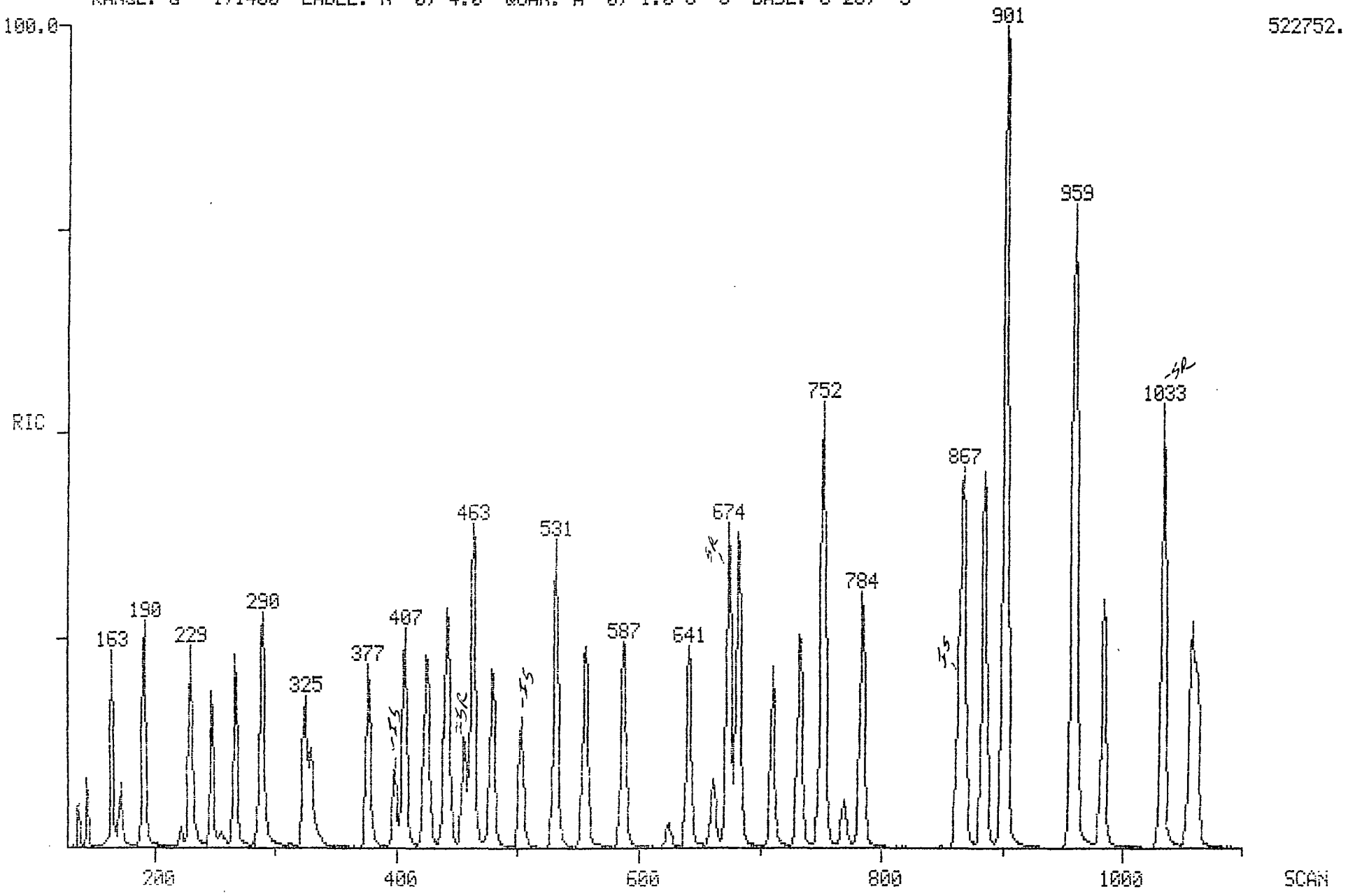
o	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	200.00	200.00	1.707	1.707	1.00
5	11:22	0.99	0.787	0.99	200.00	200.00	1.089	1.089	1.00
6	17:14	1.00	1.193	1.00	200.00	200.00	0.883	0.883	1.00
7	2:42	0.83	0.387	0.87	200.00	200.00	0.541	0.541	1.00
8	3:16	0.83	0.468	0.87	200.00	200.00	1.489	1.489	1.00
9	2:51	0.83	0.408	0.87	200.00	200.00	0.732	0.732	1.00
.0	3:24	0.83	0.487	0.87	200.00	200.00	1.007	1.007	1.00
.1	4:58	0.89	0.711	0.94	200.00	200.00	1.254	1.254	1.00
.2	4:27	0.87	0.637	0.92	200.00	200.00	0.237	0.237	1.00
.3	4:41	0.88	0.671	0.92	200.00	200.00	3.523	3.523	1.00
.4	4:25	0.86	0.632	0.91	200.00	200.00	1.394	1.394	1.00
.5	5:51	0.92	0.838	0.97	200.00	200.00	2.917	2.917	1.00
.6	5:19	0.91	0.761	0.95	400.00	400.00	1.497	1.497	1.00
.7	7:06	0.96	1.017	1.01	200.00	200.00	3.376	3.376	1.00

)	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
3	8:00	0.96	1.146	1.02	200.00	200.00	2.178	2.178	1.00
?	6:39	0.95	0.952	1.00	200.00	200.00	0.399	0.399	1.00
)	7:24	0.96	0.859	0.98	200.00	200.00	0.639	0.639	1.00
.	7:40	0.96	0.890	0.99	200.00	200.00	0.726	0.726	1.00
2	5:54	0.93	0.685	0.96	200.00	200.00	0.576	0.576	1.00
3	9:58	0.98	1.157	1.01	200.00	200.00	0.661	0.661	1.00
4	9:27	0.98	1.097	1.01	200.00	200.00	0.341	0.341	1.00
5	11:57	0.99	1.387	1.02	200.00	200.00	0.460	0.460	1.00
6	9:04	0.98	1.052	1.00	200.00	200.00	0.504	0.504	1.00
7	13:09	0.99	1.526	1.02	200.00	200.00	0.730	0.730	1.00
8	12:19	0.99	1.429	1.02	200.00	200.00	0.352	0.352	1.00
9	7:59	0.96	0.926	0.99	200.00	200.00	0.829	0.829	1.00
0	10:49	0.99	1.255	1.02	200.00	200.00	0.513	0.513	1.00
1	16:25	1.00	1.905	1.03	200.00	200.00	0.679	0.679	1.00
2	11:09	0.99	0.772	0.99	200.00	200.00	0.244	0.244	1.00
3	12:53	1.00	0.892	1.00	200.00	200.00	0.168	0.168	1.00
4	12:38	0.99	0.874	1.00	200.00	200.00	0.562	0.562	1.00
5	17:38	1.00	1.220	1.00	200.00	200.00	0.583	0.583	1.00
6	11:30	0.99	0.796	0.99	200.00	200.00	1.167	1.167	1.00
7	14:31	1.00	1.005	1.00	200.00	200.00	1.050	1.050	1.00
8	14:47	1.00	1.023	1.00	200.00	200.00	0.534	0.534	1.00
9	16:02	1.00	1.110	1.00	200.00	200.00	1.142	1.142	1.00
0	16:00	1.00	1.107	1.00	200.00	200.00	0.706	0.706	1.00

RIC
11/24/93 10:00:00
SAMPLE: VSTD100
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 100VZ1124 #1
CALI: 100VZ1124 #3

SCANS 125 TO 1100



antitation Report File: 100VZ1124

ta: 100VZ1124.TI
/24/93 10:00:00
mple: VSTD100
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
rmula: Instrument: 026 Weight: 0.000
bmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

OUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
sp. fac. from Library Entry

o	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
0	C025 CHLOROETHANE
1	C030 METHYLENE CHLORIDE
2	C035 ACETONE
3	C040 CARBON DISULFIDE
4	C045 1,1-DICHLOROETHENE
5	C050 1,1-DICHLOROETHANE
6	C055 TOTAL 1,2-DICHLOROETHENE
7	C060 CHLOROFORM
8	C065 1,2-DICHLOROETHANE
9	C110 2-BUTANONE
0	C115 1,1,1-TRICHLOROETHANE
1	C120 CARBON TETRACHLORIDE
2	C125 VINYL ACETATE
3	C130 BROMODICHLOROMETHANE
4	C140 1,2-DICHLOROPROPANE
5	C170 TRANS-1,3-DICHLOROPROPENE
6	C150 TRICHLOROETHENE
7	C155 DIBROMOCHLOROMETHANE
8	C160 1,1,2-TRICHLOROETHANE
9	C165 BENZENE
0	C145 CIS-1,3-DICHLOROPROPENE
1	C180 BROMOFORM
2	C205 4-METHYL-2-PENTANONE
3	C210 2-HEXANONE
4	C220 TETRACHLOROETHENE
5	C225 1,1,2,2-TETRACHLOROETHANE
6	C230 TOLUENE
7	C235 CHLOROBENZENE
8	C240 ETHYLBENZENE
9	C245 STYRENE
0	C250 TOTAL XYLENES

lo	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	399	6:39	1	1.000	A BB	35019.	50.000 NG/ML	1.27
2	114	503	8:23	2	1.000	A BB	166656.	50.000 NG/ML	1.27
3	117	863	14:23	3	1.000	A BB	155426.	50.000 NG/ML	1.27

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	456	7:36	1	1.143	A BB	115196.	100.000	NG/ML	2.53
5	98	674	11:14	3	0.781	A BB	337047.	100.000	NG/ML	2.53
6	95	1033	17:13	3	1.197	A BB	257527.	100.000	NG/UL	2.53
7	50	135	2:15	1	0.338	A BB	38955.	100.000	NG/ML	2.53
8	94	163	2:43	1	0.409	A BB	87254.	100.000	NG/ML	2.53
9	62	142	2:22	1	0.356	A BV	50974.	100.000	NG/ML	2.53
0	64	170	2:50	1	0.426	A BB	53562.	100.000	NG/ML	2.53
1	84	267	4:27	1	0.669	A BB	85024.	100.000	NG/ML	2.53
2	43	233	3:53	1	0.584	A BB	19082.	100.000	NG/ML	2.53
3	76	247	4:07	1	0.619	A BB	224950.	100.000	NG/ML	2.53
4	96	229	3:49	1	0.574	A BB	88741.	100.000	NG/ML	2.53
5	63	325	5:25	1	0.815	A BB	190379.	100.000	NG/ML	2.53
6	96	290	4:50	1	0.727	M XX 11/24/93	197869.	200.000	NG/ML	5.06
7	83	407	6:47	1	1.020	A BB	213318.	100.000	NG/ML	2.53
8	62	464	7:44	1	1.163	A BB	136663.	100.000	NG/ML	2.53
9	43	379	6:19	1	0.950	A BB	29313.	100.000	NG/ML	2.53
0	97	425	7:05	2	0.845	A BB	199698.	100.000	NG/ML	2.53
1	117	442	7:22	2	0.879	A BB	219991.	100.000	NG/ML	2.53
2	43	330	5:30	2	0.656	A BB	193489.	100.000	NG/ML	2.53
3	83	587	9:47	2	1.167	A BB	195306.	100.000	NG/ML	2.53
4	63	556	9:16	2	1.105	A BB	104470.	100.000	NG/ML	2.53
5	75	711	11:51	2	1.414	A BB	134214.	100.000	NG/ML	2.53
6	130	531	8:51	2	1.056	A BB	161303.	100.000	NG/ML	2.53
7	129	784	13:04	2	1.559	A BB	216204.	100.000	NG/ML	2.53
8	97	733	12:13	2	1.457	A BB	106020.	100.000	NG/ML	2.53
9	78	463	7:43	2	0.920	A BB	263680.	100.000	NG/ML	2.53
0	75	641	10:41	2	1.274	A BB	152385.	100.000	NG/ML	2.53
1	173	983	16:23	2	1.954	A BB	191814.	100.000	NG/ML	2.53
2	43	662	11:02	3	0.767	A BV	87498.	100.000	NG/ML	2.53
3	43	770	12:50	3	0.892	A BB	58594.	100.000	NG/ML	2.53
4	164	752	12:32	3	0.871	A BB	179049.	100.000	NG/ML	2.53
5	83	1057	17:37	3	1.225	A BB	178841.	100.000	NG/ML	2.53
6	91	682	11:22	3	0.790	A BB	355335.	100.000	NG/ML	2.53
7	112	867	14:27	3	1.005	A BB	317289.	100.000	NG/ML	2.53
8	106	884	14:44	3	1.024	A BB	153824.	100.000	NG/ML	2.53
9	104	960	16:00	3	1.112	A BB	327822.	100.000	NG/ML	2.53
0	106	957	15:57	3	1.109	A BB	199134.	100.000	NG/ML	2.53

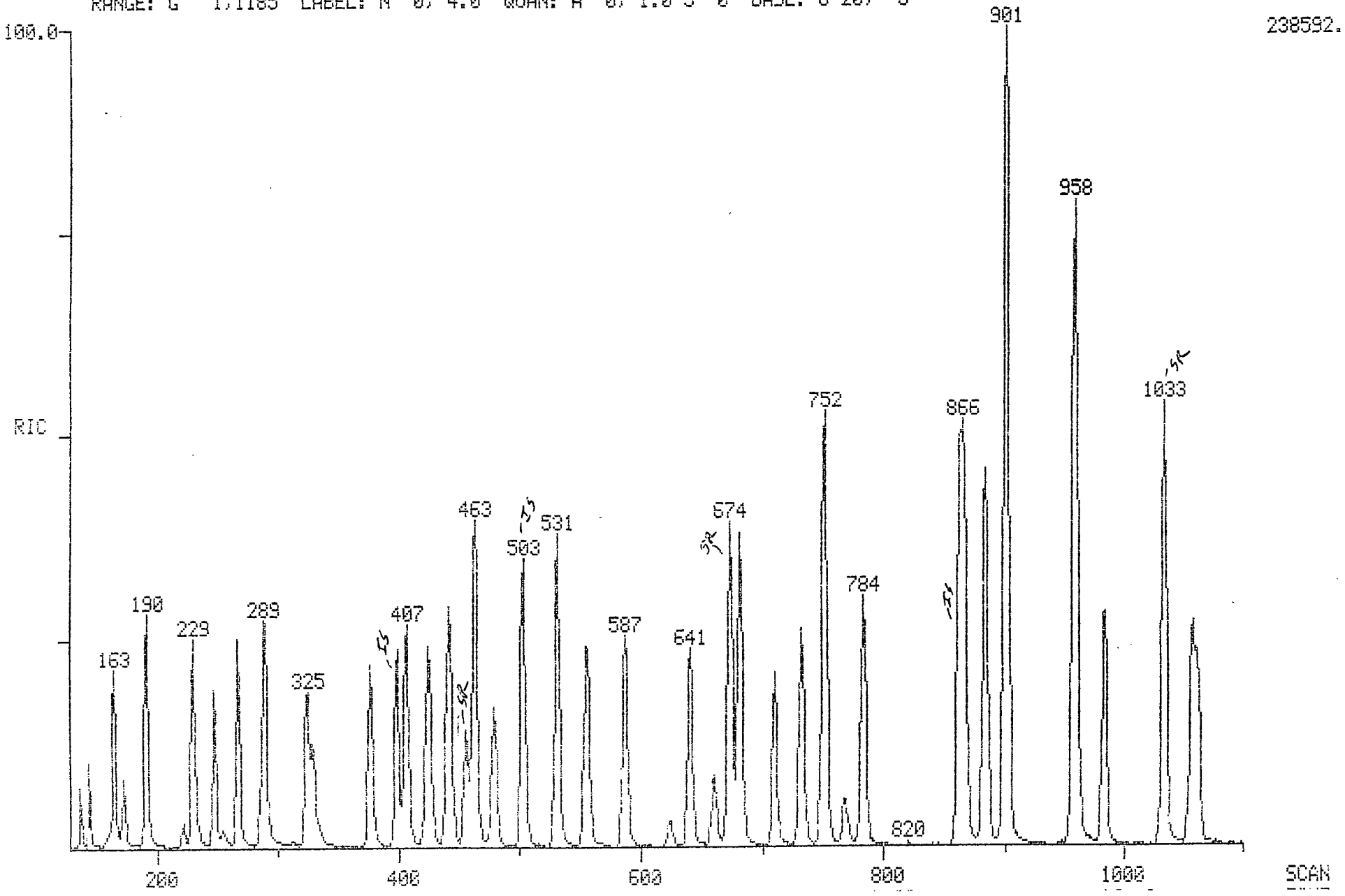
lo	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	100.00	100.00	1.645	1.645	1.00
5	11:22	0.99	0.787	0.99	100.00	100.00	1.084	1.084	1.00
6	17:14	1.00	1.193	1.00	100.00	100.00	0.828	0.828	1.00
7	2:42	0.83	0.387	0.88	100.00	100.00	0.556	0.556	1.00
8	3:16	0.83	0.468	0.87	100.00	100.00	1.246	1.246	1.00
9	2:51	0.83	0.408	0.87	100.00	100.00	0.728	0.728	1.00
0	3:24	0.83	0.487	0.88	100.00	100.00	0.765	0.765	1.00
1	4:58	0.90	0.711	0.94	100.00	100.00	1.214	1.214	1.00
2	4:27	0.87	0.637	0.92	100.00	100.00	0.272	0.272	1.00
3	4:41	0.88	0.671	0.92	100.00	100.00	3.212	3.212	1.00
4	4:25	0.86	0.632	0.91	100.00	100.00	1.267	1.267	1.00
5	5:51	0.93	0.838	0.97	100.00	100.00	2.718	2.718	1.00
6	5:19	0.91	0.761	0.95	200.00	200.00	1.413	1.413	1.00
7	7:06	0.96	1.017	1.00	100.00	100.00	3.046	3.046	1.00

ɔ	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
3	8:00	0.97	1.146	1.02	100.00	100.00	1.951	1.951	1.00
7	6:39	0.95	0.952	1.00	100.00	100.00	0.419	0.419	1.00
ɔ	7:24	0.96	0.859	0.98	100.00	100.00	0.599	0.599	1.00
1	7:40	0.96	0.890	0.99	100.00	100.00	0.660	0.660	1.00
2	5:54	0.93	0.685	0.96	100.00	100.00	0.581	0.581	1.00
3	9:58	0.98	1.157	1.01	100.00	100.00	0.586	0.586	1.00
4	9:27	0.98	1.097	1.01	100.00	100.00	0.313	0.313	1.00
5	11:57	0.99	1.387	1.02	100.00	100.00	0.403	0.403	1.00
6	9:04	0.98	1.052	1.00	100.00	100.00	0.484	0.484	1.00
7	13:09	0.99	1.526	1.02	100.00	100.00	0.649	0.649	1.00
8	12:19	0.99	1.429	1.02	100.00	100.00	0.318	0.318	1.00
9	7:59	0.97	0.926	0.99	100.00	100.00	0.791	0.791	1.00
0	10:49	0.99	1.255	1.02	100.00	100.00	0.457	0.457	1.00
1	16:25	1.00	1.905	1.03	100.00	100.00	0.575	0.575	1.00
2	11:09	0.99	0.772	0.99	100.00	100.00	0.281	0.281	1.00
3	12:53	1.00	0.892	1.00	100.00	100.00	0.188	0.188	1.00
4	12:38	0.99	0.874	1.00	100.00	100.00	0.576	0.576	1.00
5	17:38	1.00	1.220	1.00	100.00	100.00	0.575	0.575	1.00
6	11:30	0.99	0.796	0.99	100.00	100.00	1.143	1.143	1.00
7	14:31	1.00	1.005	1.00	100.00	100.00	1.021	1.021	1.00
8	14:47	1.00	1.023	1.00	100.00	100.00	0.495	0.495	1.00
9	16:02	1.00	1.110	1.00	100.00	100.00	1.055	1.055	1.00
0	16:00	1.00	1.107	1.00	100.00	100.00	0.641	0.641	1.00

RIC
11/24/93 10:41:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1185 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1124 #1
CALI: 50VZ1124 #3

SCANS 125 TO 1100



antitation Report File: 50VZ1124

ta: 50VZ1124.TI
/24/93 10:41:00
mple: VSTD050
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
rmula: Instrument: 026 Weight: 0.000
bmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

OUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
sp. fac. from Library Entry

o	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
0	C025 CHLOROETHANE
1	C030 METHYLENE CHLORIDE
2	C035 ACETONE
3	C040 CARBON DISULFIDE
4	C045 1,1-DICHLOROETHENE
5	C050 1,1-DICHLOROETHANE
6	C055 TOTAL 1,2-DICHLOROETHENE
7	C060 CHLOROFORM
8	C065 1,2-DICHLOROETHANE
9	C110 2-BUTANONE
0	C115 1,1,1-TRICHLOROETHANE
1	C120 CARBON TETRACHLORIDE
2	C125 VINYL ACETATE
3	C130 BROMODICHLOROMETHANE
4	C140 1,2-DICHLOROPROPANE
5	C170 TRANS-1,3-DICHLOROPROPENE
6	C150 TRICHLOROETHENE
7	C155 DIBROMOCHLOROMETHANE
8	C160 1,1,2-TRICHLOROETHANE
9	C165 BENZENE
0	C145 CIS-1,3-DICHLOROPROPENE
1	C180 BROMOFORM
2	C205 4-METHYL-2-PENTANONE
3	C210 2-HEXANONE
4	C220 TETRACHLOROETHENE
5	C225 1,1,2,2-TETRACHLOROETHANE
6	C230 TOLUENE
7	C235 CHLOROBENZENE
8	C240 ETHYLBENZENE
9	C245 STYRENE
0	C250 TOTAL XYLENES

lo	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	399	6:39	1	1.000	A BB	35173.	50.000 NG/ML	2.44
2	114	503	8:23	2	1.000	A BB	170738.	50.000 NG/ML	2.44
3	117	863	14:23	3	1.000	A BB	157642.	50.000 NG/ML	2.44

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	456	7:36	1	1.143	A BB	55966.	50.000	NG/ML	2.44
5	98	674	11:14	3	0.781	A BB	158761.	50.000	NG/ML	2.44
6	95	1033	17:13	3	1.197	A BB	123783.	50.000	NG/UL	2.44
7	50	134	2:14	1	0.336	A BB	20412.	50.000	NG/ML	2.44
8	94	163	2:43	1	0.409	A BB	45394.	50.000	NG/ML	2.44
9	62	142	2:22	1	0.356	A BV	26373.	50.000	NG/ML	2.44
0	64	171	2:51	1	0.429	A BB	24960.	50.000	NG/ML	2.44
1	84	267	4:27	1	0.669	A BB	44063.	50.000	NG/ML	2.44
2	43	233	3:53	1	0.584	A BB	10762.	50.000	NG/ML	2.44
3	76	247	4:07	1	0.619	A BB	99591.	50.000	NG/ML	2.44
4	96	229	3:49	1	0.574	A BB	41290.	50.000	NG/ML	2.44
5	63	325	5:25	1	0.815	A BB	90884.	50.000	NG/ML	2.44
6	96	289	4:49	1	0.724	M XX DAT 11/24/93	94998.	100.000	NG/ML	4.88
7	83	407	6:47	1	1.020	A BB	99935.	50.000	NG/ML	2.44
8	62	464	7:44	1	1.163	A BB	64405.	50.000	NG/ML	2.44
9	43	378	6:18	1	0.947	A BB	14206.	50.000	NG/ML	2.44
0	97	425	7:05	2	0.845	A BB	92585.	50.000	NG/ML	2.44
1	117	442	7:22	2	0.879	A BB	103761.	50.000	NG/ML	2.44
2	43	329	5:29	2	0.654	A BB	92295.	50.000	NG/ML	2.44
3	83	587	9:47	2	1.167	A BB	89420.	50.000	NG/ML	2.44
4	63	555	9:15	2	1.103	A BB	47638.	50.000	NG/ML	2.44
5	75	710	11:50	2	1.412	A BB	60235.	50.000	NG/ML	2.44
6	130	531	8:51	2	1.056	A BB	74718.	50.000	NG/ML	2.44
7	129	784	13:04	2	1.559	A BB	99413.	50.000	NG/ML	2.44
8	97	733	12:13	2	1.457	A BB	49859.	50.000	NG/ML	2.44
9	78	462	7:42	2	0.918	A BB	122607.	50.000	NG/ML	2.44
0	75	641	10:41	2	1.274	A BB	68682.	50.000	NG/ML	2.44
1	173	982	16:22	2	1.952	A BB	88145.	50.000	NG/ML	2.44
2	43	661	11:01	3	0.766	A BV	41166.	50.000	NG/ML	2.44
3	43	769	12:49	3	0.891	A BB	27482.	50.000	NG/ML	2.44
4	164	752	12:32	3	0.871	A BB	81883.	50.000	NG/ML	2.44
5	83	1056	17:36	3	1.224	A BB	81995.	50.000	NG/ML	2.44
6	91	682	11:22	3	0.790	A BB	161022.	50.000	NG/ML	2.44
7	112	866	14:26	3	1.003	A BB	149781.	50.000	NG/ML	2.44
8	106	884	14:44	3	1.024	A BB	70781.	50.000	NG/ML	2.44
9	104	959	15:59	3	1.111	A BB	149660.	50.000	NG/ML	2.44
0	106	957	15:57	3	1.109	A BB	91401.	50.000	NG/ML	2.44

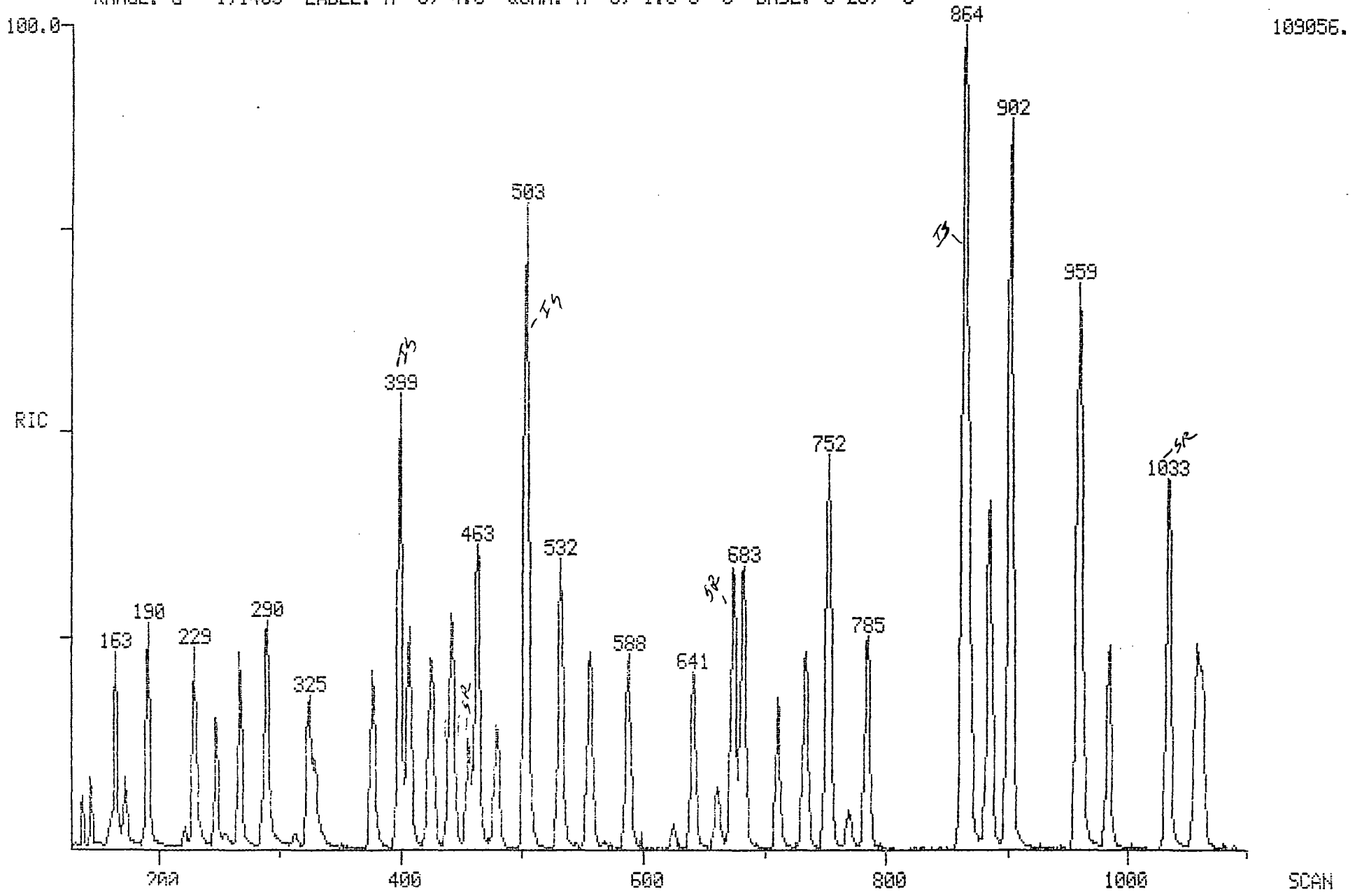
o	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	50.00	50.00	1.591	1.591	1.00
5	11:22	0.99	0.787	0.99	50.00	50.00	1.007	1.007	1.00
6	17:14	1.00	1.193	1.00	50.00	50.00	0.785	0.785	1.00
7	2:42	0.83	0.387	0.87	50.00	50.00	0.580	0.580	1.00
8	3:16	0.83	0.468	0.87	50.00	50.00	1.291	1.291	1.00
9	2:51	0.83	0.408	0.87	50.00	50.00	0.750	0.750	1.00
0	3:24	0.84	0.487	0.88	50.00	50.00	0.710	0.710	1.00
1	4:58	0.90	0.711	0.94	50.00	50.00	1.253	1.253	1.00
2	4:27	0.87	0.637	0.92	50.00	50.00	0.306	0.306	1.00
3	4:41	0.88	0.671	0.92	50.00	50.00	2.831	2.831	1.00
4	4:25	0.86	0.632	0.91	50.00	50.00	1.174	1.174	1.00
5	5:51	0.93	0.838	0.97	50.00	50.00	2.584	2.584	1.00
6	5:19	0.91	0.761	0.95	100.00	100.00	1.350	1.350	1.00
7	7:06	0.96	1.017	1.00	50.00	50.00	2.841	2.841	1.00

)	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
3	8:00	0.97	1.146	1.02	50.00	50.00	1.831	1.831	1.00
7	6:39	0.95	0.952	0.99	50.00	50.00	0.404	0.404	1.00
)	7:24	0.96	0.859	0.98	50.00	50.00	0.542	0.542	1.00
1	7:40	0.96	0.890	0.99	50.00	50.00	0.608	0.608	1.00
2	5:54	0.93	0.685	0.96	50.00	50.00	0.541	0.541	1.00
3	9:58	0.98	1.157	1.01	50.00	50.00	0.524	0.524	1.00
4	9:27	0.98	1.097	1.01	50.00	50.00	0.279	0.279	1.00
5	11:57	0.99	1.387	1.02	50.00	50.00	0.353	0.353	1.00
6	9:04	0.98	1.052	1.00	50.00	50.00	0.438	0.438	1.00
7	13:09	0.99	1.526	1.02	50.00	50.00	0.582	0.582	1.00
3	12:19	0.99	1.429	1.02	50.00	50.00	0.292	0.292	1.00
7	7:59	0.96	0.926	0.99	50.00	50.00	0.718	0.718	1.00
)	10:49	0.99	1.255	1.02	50.00	50.00	0.402	0.402	1.00
1	16:25	1.00	1.905	1.02	50.00	50.00	0.516	0.516	1.00
2	11:09	0.99	0.772	0.99	50.00	50.00	0.261	0.261	1.00
3	12:53	0.99	0.892	1.00	50.00	50.00	0.174	0.174	1.00
4	12:38	0.99	0.874	1.00	50.00	50.00	0.519	0.519	1.00
5	17:38	1.00	1.220	1.00	50.00	50.00	0.520	0.520	1.00
6	11:30	0.99	0.796	0.99	50.00	50.00	1.021	1.021	1.00
7	14:31	0.99	1.005	1.00	50.00	50.00	0.950	0.950	1.00
3	14:47	1.00	1.023	1.00	50.00	50.00	0.449	0.449	1.00
9	16:02	1.00	1.110	1.00	50.00	50.00	0.949	0.949	1.00
0	16:00	1.00	1.107	1.00	50.00	50.00	0.580	0.580	1.00

RIC
11/24/93 11:08:00
SAMPLE: VSTD020
CONDS.: (/BF(50 F 3-> 2250 S/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 20VZ1124 #1
CALI: 20VZ1124 #3

SCANS 125 TO 1100



297

antitation Report File: 20VZ1124

ta: 20VZ1124.TI
/24/93 11:08:00
nple: VSTD020
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
rmula: Instrument: 026 Weight: 0.000
omitted by: ENCOTEC Analyst: DW Acct. No.: 75100

OUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
sp. fac. from Library Entry

o	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
0	C025 CHLOROETHANE
1	C030 METHYLENE CHLORIDE
2	C035 ACETONE
3	C040 CARBON DISULFIDE
4	C045 1,1-DICHLOROETHENE
5	C050 1,1-DICHLOROETHANE
6	C055 TOTAL 1,2-DICHLOROETHENE
7	C060 CHLOROFORM
8	C065 1,2-DICHLOROETHANE
9	C110 2-BUTANONE
0	C115 1,1,1-TRICHLOROETHANE
1	C120 CARBON TETRACHLORIDE
2	C125 VINYL ACETATE
3	C130 BROMODICHLOROMETHANE
4	C140 1,2-DICHLOROPROPANE
5	C170 TRANS-1,3-DICHLOROPROPENE
6	C150 TRICHLOROETHENE
7	C155 DIBROMOCHLOROMETHANE
8	C160 1,1,2-TRICHLOROETHANE
9	C165 BENZENE
0	C145 CIS-1,3-DICHLOROPROPENE
1	C180 BROMOFORM
2	C205 4-METHYL-2-PENTANONE
3	C210 2-HEXANONE
4	C220 TETRACHLOROETHENE
5	C225 1,1,2,2-TETRACHLOROETHANE
6	C230 TOLUENE
7	C235 CHLOROBENZENE
8	C240 ETHYLBENZENE
9	C245 STYRENE
0	C250 TOTAL XYLENES

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	399	6:39	1	1.000	A BB	36484.	50.000	NG/ML	5.49
2	114	503	8:23	2	1.000	A BB	174757.	50.000	NG/ML	5.49
3	117	863	14:23	3	1.000	A BB	155706.	50.000	NG/ML	5.49

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
4	65	456	7:36	1	1.143	A BB	24282.	20.000 NG/ML	2.20
5	98	674	11:14	3	0.781	A BB	63924.	20.000 NG/ML	2.20
6	95	1034	17:14	3	1.198	A BB	46791.	20.000 NG/UL	2.20
7	50	135	2:15	1	0.338	A BB	8217.	20.000 NG/ML	2.20
8	94	163	2:43	1	0.409	A BV	18871.	20.000 NG/ML	2.20
9	62	142	2:22	1	0.356	A BB	10487.	20.000 NG/ML	2.20
0	64	171	2:51	1	0.429	A BB	11138.	20.000 NG/ML	2.20
1	84	267	4:27	1	0.669	A BB	18463.	20.000 NG/ML	2.20
2	43	233	3:53	1	0.584	A BB	5168.	20.000 NG/ML	2.20
3	76	247	4:07	1	0.619	A BB	39138.	20.000 NG/ML	2.20
4	96	229	3:49	1	0.574	A BB	18473.	20.000 NG/ML	2.20
5	63	325	5:25	1	0.815	A BB	39812.	20.000 NG/ML	2.20
6	96	290	4:50	1	0.727	M XX PAT 11/24/93	42187.	40.000 NG/ML	4.40
7	83	407	6:47	1	1.020	A BB	43872.	20.000 NG/ML	2.20
8	62	464	7:44	1	1.163	A BB	28603.	20.000 NG/ML	2.20
9	43	379	6:19	1	0.950	A BB	6821.	20.000 NG/ML	2.20
0	97	425	7:05	2	0.845	A BB	40672.	20.000 NG/ML	2.20
1	117	442	7:22	2	0.879	A BB	44801.	20.000 NG/ML	2.20
2	43	330	5:30	2	0.656	A BB	35493.	20.000 NG/ML	2.20
3	83	588	9:48	2	1.169	A BB	37224.	20.000 NG/ML	2.20
4	63	556	9:16	2	1.105	A BB	21398.	20.000 NG/ML	2.20
5	75	711	11:51	2	1.414	A BB	23455.	20.000 NG/ML	2.20
6	130	531	8:51	2	1.056	A BB	34072.	20.000 NG/ML	2.20
7	129	785	13:05	2	1.561	A BB	38130.	20.000 NG/ML	2.20
8	97	734	12:14	2	1.459	A BB	20379.	20.000 NG/ML	2.20
9	78	463	7:43	2	0.920	A BB	53689.	20.000 NG/ML	2.20
0	75	642	10:42	2	1.276	A BB	28462.	20.000 NG/ML	2.20
1	173	984	16:24	2	1.956	A BB	34346.	20.000 NG/ML	2.20
2	43	662	11:02	3	0.767	A BV	17188.	20.000 NG/ML	2.20
3	43	770	12:50	3	0.892	A BB	10283.	20.000 NG/ML	2.20
4	164	752	12:32	3	0.871	A BB	34684.	20.000 NG/ML	2.20
5	83	1058	17:38	3	1.226	A BB	33345.	20.000 NG/ML	2.20
6	91	683	11:23	3	0.791	A BB	68931.	20.000 NG/ML	2.20
7	112	867	14:27	3	1.005	A BB	63949.	20.000 NG/ML	2.20
8	106	885	14:45	3	1.025	A BB	31039.	20.000 NG/ML	2.20
9	104	960	16:00	3	1.112	A BB	60856.	20.000 NG/ML	2.20
0	106	958	15:58	3	1.110	A BB	39438.	20.000 NG/ML	2.20

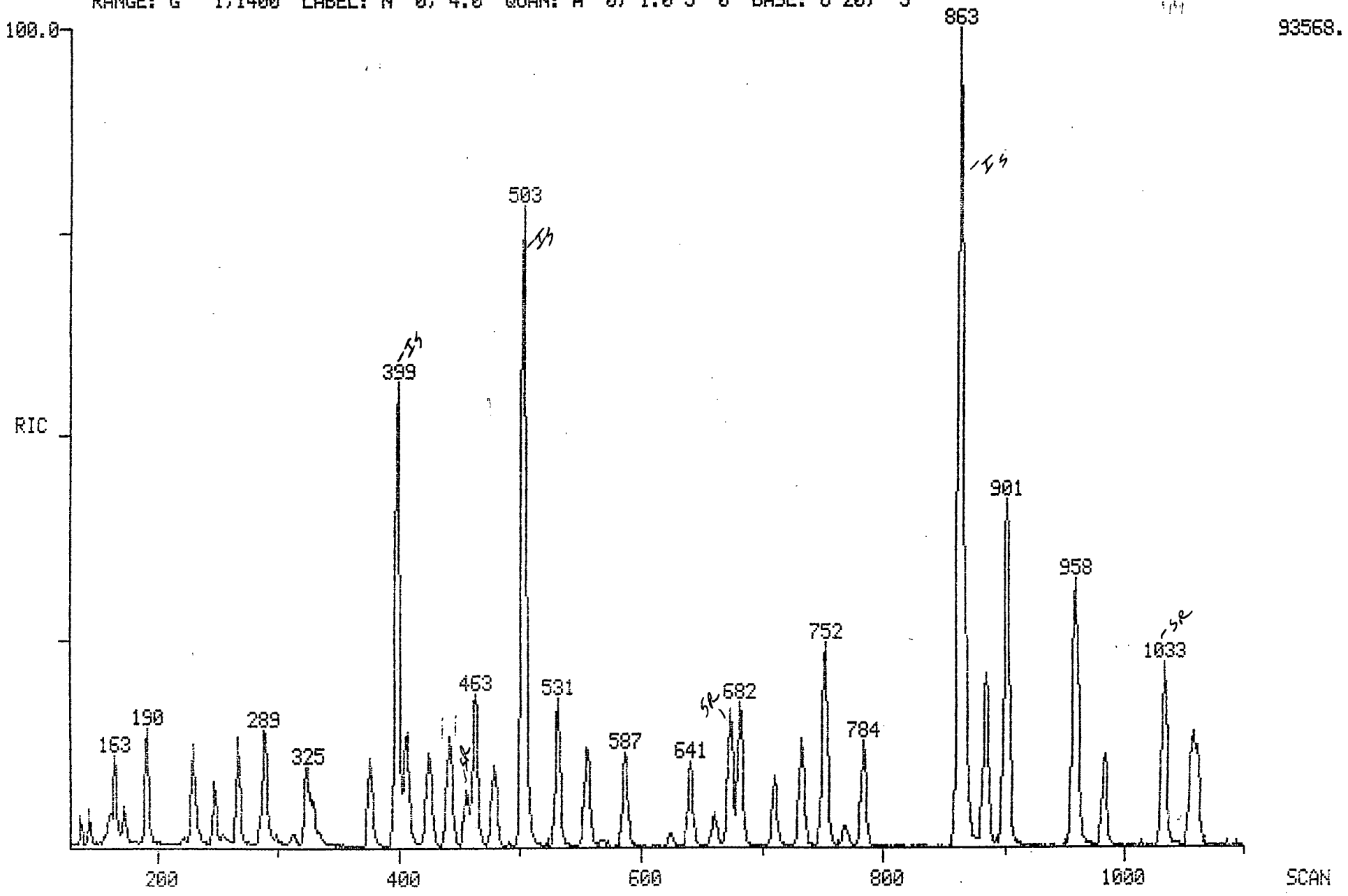
o	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	20.00	20.00	1.664	1.664	1.00
5	11:22	0.99	0.787	0.99	20.00	20.00	1.026	1.026	1.00
6	17:14	1.00	1.193	1.00	20.00	20.00	0.751	0.751	1.00
7	2:42	0.83	0.387	0.88	20.00	20.00	0.563	0.563	1.00
8	3:16	0.83	0.468	0.87	20.00	20.00	1.293	1.293	1.00
9	2:51	0.83	0.408	0.87	20.00	20.00	0.719	0.719	1.00
0	3:24	0.84	0.487	0.88	20.00	20.00	0.763	0.763	1.00
1	4:58	0.90	0.711	0.94	20.00	20.00	1.265	1.265	1.00
2	4:27	0.87	0.637	0.92	20.00	20.00	0.354	0.354	1.00
3	4:41	0.88	0.671	0.92	20.00	20.00	2.682	2.682	1.00
4	4:25	0.86	0.632	0.91	20.00	20.00	1.266	1.266	1.00
5	5:51	0.93	0.838	0.97	20.00	20.00	2.728	2.728	1.00
6	5:19	0.91	0.761	0.95	40.00	40.00	1.445	1.445	1.00
7	7:06	0.96	1.017	1.00	20.00	20.00	3.006	3.006	1.00

o	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
3	8:00	0.97	1.146	1.02	20.00	20.00	1.960	1.960	1.00
7	6:39	0.95	0.952	1.00	20.00	20.00	0.467	0.467	1.00
0	7:24	0.96	0.859	0.98	20.00	20.00	0.582	0.582	1.00
1	7:40	0.96	0.890	0.99	20.00	20.00	0.641	0.641	1.00
2	5:54	0.93	0.685	0.96	20.00	20.00	0.508	0.508	1.00
3	9:58	0.98	1.157	1.01	20.00	20.00	0.533	0.533	1.00
4	9:27	0.98	1.097	1.01	20.00	20.00	0.306	0.306	1.00
5	11:57	0.99	1.387	1.02	20.00	20.00	0.336	0.336	1.00
6	9:04	0.98	1.052	1.00	20.00	20.00	0.487	0.487	1.00
7	13:09	0.99	1.526	1.02	20.00	20.00	0.545	0.545	1.00
8	12:19	0.99	1.429	1.02	20.00	20.00	0.292	0.292	1.00
9	7:59	0.97	0.926	0.99	20.00	20.00	0.768	0.768	1.00
0	10:49	0.99	1.255	1.02	20.00	20.00	0.407	0.407	1.00
1	16:25	1.00	1.905	1.03	20.00	20.00	0.491	0.491	1.00
2	11:09	0.99	0.772	0.99	20.00	20.00	0.276	0.276	1.00
3	12:53	1.00	0.892	1.00	20.00	20.00	0.165	0.165	1.00
4	12:38	0.99	0.874	1.00	20.00	20.00	0.557	0.557	1.00
5	17:38	1.00	1.220	1.00	20.00	20.00	0.535	0.535	1.00
6	11:30	0.99	0.796	0.99	20.00	20.00	1.107	1.107	1.00
7	14:31	1.00	1.005	1.00	20.00	20.00	1.027	1.027	1.00
8	14:47	1.00	1.023	1.00	20.00	20.00	0.498	0.498	1.00
9	16:02	1.00	1.110	1.00	20.00	20.00	0.977	0.977	1.00
0	16:00	1.00	1.107	1.00	20.00	20.00	0.633	0.633	1.00

RIC
11/24/93 11:40:00
SAMPLE: VSTD010
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 10VZ1124 #1
CALI: 10VZ1124 #3

SCANS 125 TO 1100



301

antitation Report File: 10VZ1124

ta: 10VZ1124.TI
/24/93 11:40:00
mple: VSTD010
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
rmula: Instrument: 026 Weight: 0.000
bmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

OUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
sp. fac. from Library Entry

o	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
0	C025 CHLOROETHANE
1	C030 METHYLENE CHLORIDE
2	C035 ACETONE
3	C040 CARBON DISULFIDE
4	C045 1,1-DICHLOROETHENE
5	C050 1,1-DICHLOROETHANE
6	C055 TOTAL 1,2-DICHLOROETHENE
7	C060 CHLOROFORM
8	C065 1,2-DICHLOROETHANE
9	C110 2-BUTANONE
0	C115 1,1,1-TRICHLOROETHANE
1	C120 CARBON TETRACHLORIDE
2	C125 VINYL ACETATE
3	C130 BROMODICHLOROMETHANE
4	C140 1,2-DICHLOROPROPANE
5	C170 TRANS-1,3-DICHLOROPROPENE
6	C150 TRICHLOROETHENE
7	C155 DIBROMOCHLOROMETHANE
8	C160 1,1,2-TRICHLOROETHANE
9	C165 BENZENE
0	C145 CIS-1,3-DICHLOROPROPENE
1	C180 BROMOFORM
2	C205 4-METHYL-2-PENTANONE
3	C210 2-HEXANONE
4	C220 TETRACHLOROETHENE
5	C225 1,1,2,2-TETRACHLOROETHANE
6	C230 TOLUENE
7	C235 CHLOROBENZENE
8	C240 ETHYLBENZENE
9	C245 STYRENE
0	C250 TOTAL XYLENES

lo	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	399	6:39	1	1.000	A BB	32305.	50.000	NG/ML	9.43
2	114	503	8:23	2	1.000	A BB	151742.	50.000	NG/ML	9.43
3	117	863	14:23	3	1.000	A BB	134322.	50.000	NG/ML	9.43

o	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
4	65	456	7:36	1	1.143	A BB	10727.	10.000 NG/ML	1.89
5	98	674	11:14	3	0.781	A BB	26704.	10.000 NG/ML	1.89
6	95	1033	17:13	3	1.197	A BB	20323.	10.000 NG/UL	1.89
7	50	134	2:14	1	0.336	A BB	3409.	10.000 NG/ML	1.89
8	94	163	2:43	1	0.409	A BV	8938.	10.000 NG/ML	1.89
9	62	142	2:22	1	0.356	A BB	4401.	10.000 NG/ML	1.89
0	64	171	2:51	1	0.429	A BB	4603.	10.000 NG/ML	1.89
1	84	267	4:27	1	0.669	A BB	8927.	10.000 NG/ML	1.89
2	43	233	3:53	1	0.584	A BV	3601.	10.000 NG/ML	1.89
3	76	247	4:07	1	0.619	A BB	15442.	10.000 NG/ML	1.89
4	96	229	3:49	1	0.574	A BB	8018.	10.000 NG/ML	1.89
5	63	324	5:24	1	0.812	A BB	17703.	10.000 NG/ML	1.89
6	96	289	4:49	1	0.724	M XX DAT 11/24/93	18371.	20.000 NG/ML	3.77
7	83	407	6:47	1	1.020	A BB	19030.	10.000 NG/ML	1.89
8	62	464	7:44	1	1.163	A BV	12625.	10.000 NG/ML	1.89
9	43	378	6:18	1	0.947	A BB	3260.	10.000 NG/ML	1.89
0	97	425	7:05	2	0.845	A BV	16843.	10.000 NG/ML	1.89
1	117	442	7:22	2	0.879	A BB	18429.	10.000 NG/ML	1.89
2	43	329	5:29	2	0.654	A BB	15887.	10.000 NG/ML	1.89
3	83	587	9:47	2	1.167	A BB	15182.	10.000 NG/ML	1.89
4	63	555	9:15	2	1.103	A BB	9285.	10.000 NG/ML	1.89
5	75	711	11:51	2	1.414	A BB	9268.	10.000 NG/ML	1.89
6	130	531	8:51	2	1.056	A BB	14540.	10.000 NG/ML	1.89
7	129	784	13:04	2	1.559	A BB	15926.	10.000 NG/ML	1.89
8	97	733	12:13	2	1.457	A BB	9636.	10.000 NG/ML	1.89
9	78	462	7:42	2	0.918	A BB	23046.	10.000 NG/ML	1.89
0	75	641	10:41	2	1.274	A BB	11296.	10.000 NG/ML	1.89
1	173	983	16:23	2	1.954	A BB	13269.	10.000 NG/ML	1.89
2	43	661	11:01	3	0.766	A BV	8093.	10.000 NG/ML	1.89
3	43	769	12:49	3	0.891	A BB	5111.	10.000 NG/ML	1.89
4	164	752	12:32	3	0.871	A BB	15111.	10.000 NG/ML	1.89
5	83	1057	17:37	3	1.225	A BB	14983.	10.000 NG/ML	1.89
6	91	682	11:22	3	0.790	A BB	30106.	10.000 NG/ML	1.89
7	112	867	14:27	3	1.005	A BV	27879.	10.000 NG/ML	1.89
8	106	884	14:44	3	1.024	A BB	12287.	10.000 NG/ML	1.89
9	104	959	15:59	3	1.111	A BB	25641.	10.000 NG/ML	1.89
0	106	957	15:57	3	1.109	A BV	16497.	10.000 NG/ML	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.97	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.96	1.129	1.01	10.00	10.00	1.660	1.660	1.00
5	11:22	0.99	0.787	0.99	10.00	10.00	0.994	0.994	1.00
6	17:14	1.00	1.193	1.00	10.00	10.00	0.757	0.757	1.00
7	2:42	0.83	0.387	0.87	10.00	10.00	0.528	0.528	1.00
8	3:16	0.83	0.468	0.87	10.00	10.00	1.383	1.383	1.00
9	2:51	0.83	0.408	0.87	10.00	10.00	0.681	0.681	1.00
10	3:24	0.84	0.487	0.88	10.00	10.00	0.712	0.712	1.00
11	4:58	0.90	0.711	0.94	10.00	10.00	1.382	1.382	1.00
12	4:27	0.87	0.637	0.92	10.00	10.00	0.557	0.557	1.00
13	4:41	0.88	0.671	0.92	10.00	10.00	2.390	2.390	1.00
14	4:25	0.86	0.632	0.91	10.00	10.00	1.241	1.241	1.00
15	5:51	0.92	0.838	0.97	10.00	10.00	2.740	2.740	1.00
16	5:19	0.91	0.761	0.95	20.00	20.00	1.422	1.422	1.00
17	7:06	0.96	1.017	1.00	10.00	10.00	2.945	2.945	1.00

o	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	8:00	0.97	1.146	1.02	10.00	10.00	1.954	1.954	1.00
9	6:39	0.95	0.952	0.99	10.00	10.00	0.505	0.505	1.00
0	7:24	0.96	0.859	0.98	10.00	10.00	0.555	0.555	1.00
1	7:40	0.96	0.890	0.99	10.00	10.00	0.607	0.607	1.00
2	5:54	0.93	0.685	0.96	10.00	10.00	0.523	0.523	1.00
3	9:58	0.98	1.157	1.01	10.00	10.00	0.500	0.500	1.00
4	9:27	0.98	1.097	1.01	10.00	10.00	0.306	0.306	1.00
5	11:57	0.99	1.387	1.02	10.00	10.00	0.305	0.305	1.00
6	9:04	0.98	1.052	1.00	10.00	10.00	0.479	0.479	1.00
.7	13:09	0.99	1.526	1.02	10.00	10.00	0.525	0.525	1.00
:8	12:19	0.99	1.429	1.02	10.00	10.00	0.318	0.318	1.00
'9	7:59	0.96	0.926	0.99	10.00	10.00	0.759	0.759	1.00
:0	10:49	0.99	1.255	1.02	10.00	10.00	0.372	0.372	1.00
:1	16:25	1.00	1.905	1.03	10.00	10.00	0.437	0.437	1.00
:2	11:09	0.99	0.772	0.99	10.00	10.00	0.301	0.301	1.00
:3	12:53	0.99	0.892	1.00	10.00	10.00	0.190	0.190	1.00
:4	12:38	0.99	0.874	1.00	10.00	10.00	0.562	0.562	1.00
:5	17:38	1.00	1.220	1.00	10.00	10.00	0.558	0.558	1.00
:6	11:30	0.99	0.796	0.99	10.00	10.00	1.121	1.121	1.00
:7	14:31	1.00	1.005	1.00	10.00	10.00	1.038	1.038	1.00
:8	14:47	1.00	1.023	1.00	10.00	10.00	0.457	0.457	1.00
:9	16:02	1.00	1.110	1.00	10.00	10.00	0.954	0.954	1.00
:0	16:00	1.00	1.107	1.00	10.00	10.00	0.614	0.614	1.00

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration date: 11/11/93 Time: 1015

Lab File ID: 50VZ1111 Init. Calib. Date(s): 11/11/93 11/11/93

Heated Purge: (Y/N) Y Init. Calib. Times: 0911 1125

GC Column: CAP ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.635	0.663		-4.4	
Bromomethane	1.067	0.980	0.100	8.2	25.0
Vinyl Chloride	0.816	0.839	0.100	-2.8	25.0
Chloroethane	0.811	0.798		1.6	
Methylene Chloride	1.513	1.462		3.4	
Acetone	0.401	0.438		-9.2	
Carbon Disulfide	3.580	3.571		0.3	
1,1-Dichloroethene	1.371	1.345	0.100	1.9	25.0
1,1-Dichloroethane	3.512	3.444	0.200	1.9	25.0
1,2-Dichloroethene (total)	1.574	1.543		2.0	
Chloroform	3.636	3.513	0.200	3.4	25.0
1,2-Dichloroethane	2.620	2.603	0.100	0.6	25.0
2-Butanone	0.735	0.785		-6.8	
1,1,1-Trichloroethane	0.692	0.672	0.100	2.9	25.0
Carbon Tetrachloride	0.732	0.711	0.100	2.9	25.0
Bromodichloromethane	0.682	0.696	0.200	-2.1	25.0
1,2-Dichloropropane	0.376	0.377		-0.3	
cis-1,3-Dichloropropene	0.544	0.557	0.200	-2.4	25.0
Trichloroethene	0.491	0.478	0.300	2.6	25.0
Dibromochloromethane	0.659	0.689	0.100	-4.6	25.0
1,1,2-Trichloroethane	0.337	0.353	0.100	-4.7	25.0
Benzene	0.884	0.866	0.500	2.0	25.0
trans-1,3-Dichloropropene	0.495	0.512	0.100	-3.4	25.0
Bromoform	0.635	0.706	0.100	-11.2	25.0
4-Methyl-2-Pentanone	0.403	0.473		-17.4	
2-Hexanone	0.268	0.319		-19.0	
Tetrachloroethene	0.568	0.554	0.200	2.5	25.0
1,1,2,2-Tetrachloroethane	0.639	0.698	0.500	-9.2	25.0
Toluene	1.177	1.144	0.400	2.8	25.0
Chlorobenzene	1.033	1.020	0.500	1.3	25.0
Ethylbenzene	0.507	0.494	0.100	2.6	25.0
Styrene	1.069	1.076	0.300	-0.7	25.0
Xylene (total)	0.653	0.643	0.300	1.5	25.0
Toluene-d8	1.034	1.024		1.0	
Bromofluorobenzene	0.816	0.815	0.200	0.1	25.0
1,2-Dichloroethane-d4	2.092	2.107		-0.7	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration date: 11/11/93 Time: 1333

Lab File ID: 50VZ1111Z Init. Calib. Date(s): 11/11/93 11/11/93

Heated Purge: (Y/N) Y Init. Calib. Times: 0911 1125

GC Column: CAP ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.635	0.780		-22.8	
Bromomethane	1.067	1.262	0.100	-18.3	25.0
Vinyl Chloride	0.816	0.989	0.100	-21.2	25.0
Chloroethane	0.811	0.987		-21.7	
Methylene Chloride	1.513	1.573		-4.0	
Acetone	0.401	0.439		-9.5	
Carbon Disulfide	3.580	4.369		-22.0	
1,1-Dichloroethene	1.371	1.534	0.100	-11.9	25.0
1,1-Dichloroethane	3.512	4.233	0.200	-20.5	25.0
1,2-Dichloroethene (total)	1.574	1.760		-11.8	
Chloroform	3.636	4.170	0.200	-14.7	25.0
1,2-Dichloroethane	2.620	3.182	0.100	-21.4	25.0
2-Butanone	0.735	0.838		-14.0	
1,1,1-Trichloroethane	0.692	0.792	0.100	-14.4	25.0
Carbon Tetrachloride	0.732	0.808	0.100	-10.4	25.0
Bromodichloromethane	0.682	0.743	0.200	-8.9	25.0
1,2-Dichloropropane	0.376	0.416		-10.6	
cis-1,3-Dichloropropene	0.544	0.589	0.200	-8.3	25.0
Trichloroethene	0.491	0.489	0.300	0.4	25.0
Dibromochloromethane	0.659	0.644	0.100	2.3	25.0
1,1,2-Trichloroethane	0.337	0.359	0.100	-6.5	25.0
Benzene	0.884	0.974	0.500	-10.2	25.0
trans-1,3-Dichloropropene	0.495	0.572	0.100	-15.6	25.0
Bromoform	0.635	0.694	0.100	-9.3	25.0
4-Methyl-2-Pentanone	0.403	0.453		-12.4	
2-Hexanone	0.268	0.312		-16.4	
Tetrachloroethene	0.568	0.573	0.200	-0.9	25.0
1,1,2,2-Tetrachloroethane	0.639	0.724	0.500	-13.3	25.0
Toluene	1.177	1.250	0.400	-6.2	25.0
Chlorobenzene	1.033	1.089	0.500	-5.4	25.0
Ethylbenzene	0.507	0.540	0.100	-6.5	25.0
Styrene	1.069	1.185	0.300	-10.8	25.0
Xylene (total)	0.653	0.740	0.300	-13.3	25.0
Toluene-d8	1.034	1.029		0.5	
Bromofluorobenzene	0.816	0.872	0.200	-6.9	25.0
1,2-Dichloroethane-d4	2.092	2.380		-13.8	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration date: 11/12/93 Time: 0917

Lab File ID: 50VZ1112 Init. Calib. Date(s): 11/11/93 11/11/93

Heated Purge: (Y/N) Y Init. Calib. Times: 0911 1125

GC Column: CAP ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.635	0.555		12.6	
Bromomethane	1.067	1.170	0.100	-9.7	25.0
Vinyl Chloride	0.816	0.753	0.100	7.7	25.0
Chloroethane	0.811	0.911		-12.3	
Methylene Chloride	1.513	1.632		-7.9	
Acetone	0.401	0.392		2.2	
Carbon Disulfide	3.580	3.560		0.6	
1,1-Dichloroethene	1.371	1.435	0.100	-4.7	25.0
1,1-Dichloroethane	3.512	3.532	0.200	-0.6	25.0
1,2-Dichloroethene (total)	1.574	1.637		-4.0	
Chloroform	3.636	3.732	0.200	-2.6	25.0
1,2-Dichloroethane	2.620	2.775	0.100	-5.9	25.0
2-Butanone	0.735	0.670		8.8	
1,1,1-Trichloroethane	0.692	0.710	0.100	-2.6	25.0
Carbon Tetrachloride	0.732	0.797	0.100	-8.9	25.0
Bromodichloromethane	0.682	0.702	0.200	-2.9	25.0
1,2-Dichloropropane	0.376	0.362		3.7	
cis-1,3-Dichloropropene	0.544	0.521	0.200	4.2	25.0
Trichloroethene	0.491	0.499	0.300	-1.6	25.0
Dibromochloromethane	0.659	0.713	0.100	-8.2	25.0
1,1,2-Trichloroethane	0.337	0.348	0.100	-3.3	25.0
Benzene	0.884	0.873	0.500	1.2	25.0
trans-1,3-Dichloropropene	0.495	0.475	0.100	4.0	25.0
Bromoform	0.635	0.679	0.100	-6.9	25.0
4-Methyl-2-Pentanone	0.403	0.397		1.5	
2-Hexanone	0.268	0.272		-1.5	
Tetrachloroethene	0.568	0.572	0.200	-0.7	25.0
1,1,2,2-Tetrachloroethane	0.639	0.658	0.500	-3.0	25.0
Toluene	1.177	1.169	0.400	0.7	25.0
Chlorobenzene	1.033	1.050	0.500	-1.6	25.0
Ethylbenzene	0.507	0.523	0.100	-3.2	25.0
Styrene	1.069	1.107	0.300	-3.6	25.0
Xylene (total)	0.653	0.691	0.300	-5.8	25.0
Toluene-d8	1.034	1.003		3.0	
Bromofluorobenzene	0.816	0.800	0.200	2.0	25.0
1,2-Dichloroethane-d4	2.092	2.065		1.3	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration date: 11/13/93 Time: 1041

Lab File ID: 50VZ1113Z Init. Calib. Date(s): 11/13/93 11/13/93

Heated Purge: (Y/N) N Init. Calib. Times: 0725 0933

GC Column: CAP ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.834	0.744		10.8	
Bromomethane	1.072	1.366	0.100	-27.4	25.0
Vinyl Chloride	0.989	0.939	0.100	5.1	25.0
Chloroethane	0.807	0.865		-7.2	
Methylene Chloride	1.616	1.378		14.7	
Acetone	0.296	0.267		9.8	
Carbon Disulfide	3.892	3.712		4.6	
1,1-Dichloroethene	1.307	1.396	0.100	-6.8	25.0
1,1-Dichloroethane	2.657	2.977	0.200	-12.0	25.0
1,2-Dichloroethene (total)	1.555	1.546		0.6	
Chloroform	2.594	3.024	0.200	-16.6	25.0
1,2-Dichloroethane	1.395	1.742	0.100	-24.9	25.0
2-Butanone	0.558	0.453		18.8	
1,1,1-Trichloroethane	0.426	0.532	0.100	-24.9	25.0
Carbon Tetrachloride	0.436	0.542	0.100	-24.3	25.0
Bromodichloromethane	0.494	0.524	0.200	-6.1	25.0
1,2-Dichloropropane	0.362	0.352		2.8	
cis-1,3-Dichloropropene	0.454	0.470	0.200	-3.5	25.0
Trichloroethene	0.456	0.458	0.300	-0.4	25.0
Dibromochloromethane	0.510	0.514	0.100	-0.8	25.0
1,1,2-Trichloroethane	0.323	0.298	0.100	7.7	25.0
Benzene	0.891	0.887	0.500	0.4	25.0
trans-1,3-Dichloropropene	0.352	0.374	0.100	-6.2	25.0
Bromoform	0.472	0.431	0.100	8.7	25.0
4-Methyl-2-Pentanone	0.337	0.286		15.1	
2-Hexanone	0.221	0.190		14.0	
Tetrachloroethene	0.531	0.524	0.200	1.3	25.0
1,1,2,2-Tetrachloroethane	0.614	0.548	0.500	10.8	25.0
Toluene	1.216	1.200	0.400	1.3	25.0
Chlorobenzene	1.016	1.028	0.500	-1.2	25.0
Ethylbenzene	0.501	0.503	0.100	-0.4	25.0
Styrene	1.021	1.030	0.300	-0.9	25.0
Xylene (total)	0.634	0.635	0.300	-0.2	25.0
Toluene-d8	1.108	1.053		5.0	
Bromofluorobenzene	0.786	0.764	0.200	2.8	25.0
1,2-Dichloroethane-d4	1.231	1.447		-17.6	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract:
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 026 Calibration date: 11/28/93 Time: 1128

Lab File ID: 50VZ1128 Init. Calib. Date(s): 11/24/93 11/24/93

Heated Purge: (Y/N) N Init. Calib. Times: 0928 1140

GC Column: CAP ID: 0.530(mm)

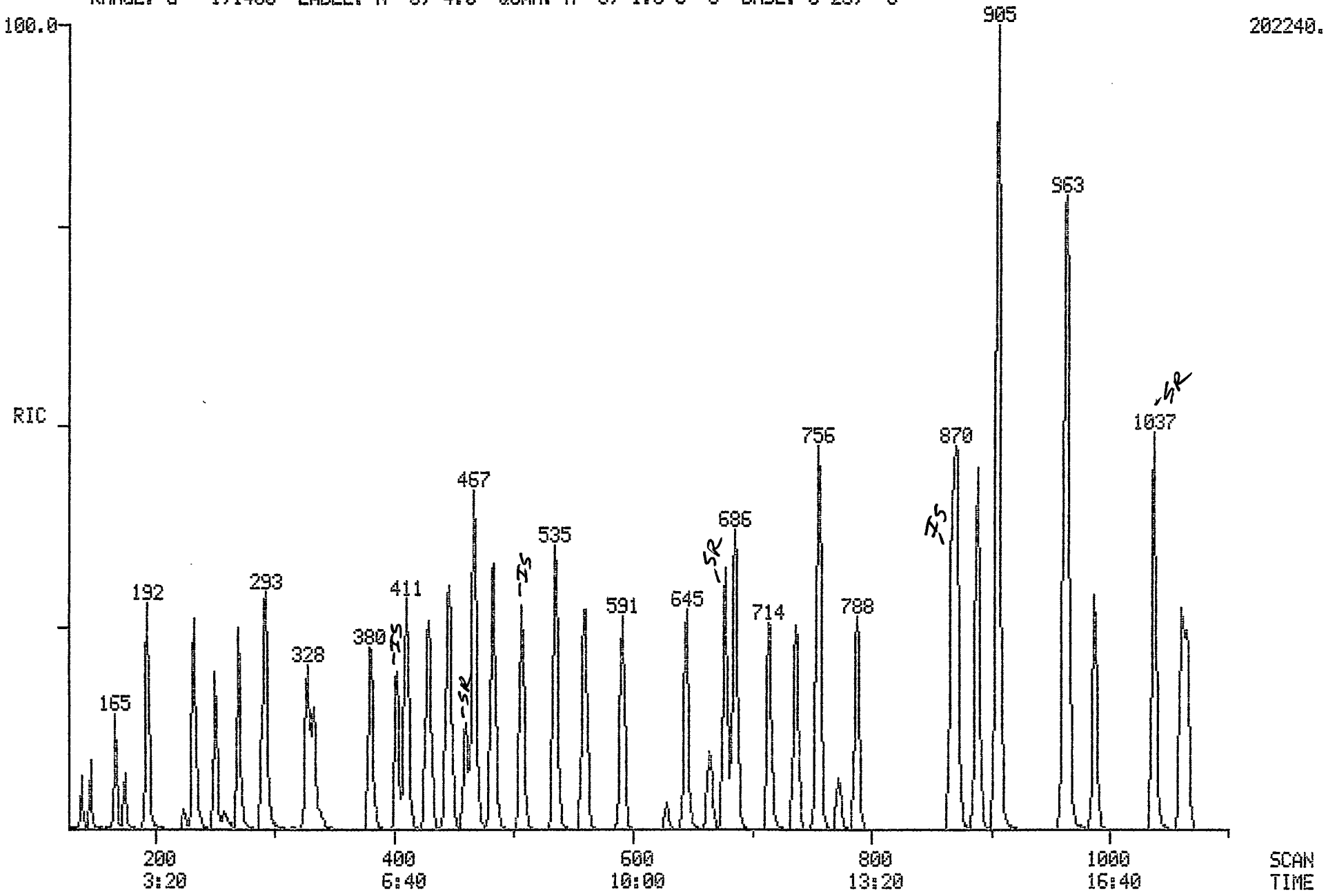
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.554	0.502		9.4	
Bromomethane	1.340	1.679	0.100	-25.3	25.0
Vinyl Chloride	0.722	0.671	0.100	7.1	25.0
Chloroethane	0.791	0.822		-3.9	
Methylene Chloride	1.274	1.389		-9.0	
Acetone	0.345	0.378		-9.6	
Carbon Disulfide	2.928	3.084		-5.3	
1,1-Dichloroethene	1.268	1.365	0.100	-7.6	25.0
1,1-Dichloroethane	2.737	2.637	0.200	3.7	25.0
1,2-Dichloroethene (total)	1.425	1.484		-4.1	
Chloroform	3.043	3.164	0.200	-4.0	25.0
1,2-Dichloroethane	1.975	2.192	0.100	-11.0	25.0
2-Butanone	0.439	0.417		5.0	
1,1,1-Trichloroethane	0.583	0.596	0.100	-2.2	25.0
Carbon Tetrachloride	0.648	0.717	0.100	-10.6	25.0
Bromodichloromethane	0.561	0.594	0.200	-5.9	25.0
1,2-Dichloropropane	0.309	0.298		3.6	
cis-1,3-Dichloropropene	0.430	0.413	0.200	4.0	25.0
Trichloroethene	0.478	0.500	0.300	-4.6	25.0
Dibromochloromethane	0.606	0.737	0.100	-21.6	25.0
1,1,2-Trichloroethane	0.314	0.343	0.100	-9.2	25.0
Benzene	0.773	0.764	0.500	1.2	25.0
trans-1,3-Dichloropropene	0.371	0.359	0.100	3.2	25.0
Bromoform	0.540	0.649	0.100	-20.2	25.0
4-Methyl-2-Pentanone	0.273	0.246		9.9	
2-Hexanone	0.177	0.163		7.9	
Tetrachloroethene	0.555	0.552	0.200	0.5	25.0
1,1,2,2-Tetrachloroethane	0.554	0.536	0.500	3.2	25.0
Toluene	1.112	1.012	0.400	9.0	25.0
Chlorobenzene	1.017	1.001	0.500	1.6	25.0
Ethylbenzene	0.487	0.484	0.100	0.6	25.0
Styrene	1.015	0.970	0.300	4.4	25.0
Xylene (total)	0.635	0.611	0.300	3.8	25.0
Toluene-d8	1.040	0.926		11.0	
Bromofluorobenzene	0.801	0.737	0.200	8.0	25.0
1,2-Dichloroethane-d4	1.653	1.763		-6.7	

All other compounds must meet a minimum RRF of 0.010.

RIC
11/11/93 13:33:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1111Z #1 SCANS 125 TO 1100
CALI: CALTAB #3

310



Quantitation Report File: 50VZ1111Z

Data: 50VZ1111Z.TI
11/11/93 13:33:00
Sample: VSTD050
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	402	6:42	1	1.000	A BB	20247.	50.000 NG/ML	2.44
2	114	507	8:27	2	1.000	A BB	104512.	50.000 NG/ML	2.44
3	117	867	14:27	3	1.000	A BB	98557.	50.000 NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	460	7:40	1	1.144	A BB	48193.	50.000	NG/ML	2.44
5	98	678	11:18	3	0.782	A BB	101418.	50.000	NG/ML	2.44
6	95	1037	17:17	3	1.196	A BB	85958.	50.000	NG/UL	2.44
7	50	136	2:16	1	0.338	A BB	15785.	50.000	NG/ML	2.44
8	94	165	2:45	1	0.410	A BB	25557.	50.000	NG/ML	2.44
9	62	144	2:24	1	0.358	A BB	20029.	50.000	NG/ML	2.44
10	64	173	2:53	1	0.430	A BB	19993.	50.000	NG/ML	2.44
11	84	270	4:30	1	0.672	A BB	31848.	50.000	NG/ML	2.44
12	43	236	3:56	1	0.587	A BB	8886.	50.000	NG/ML	2.44
13	76	250	4:10	1	0.622	A BB	88458.	50.000	NG/ML	2.44
14	96	232	3:52	1	0.577	A BB	31049.	50.000	NG/ML	2.44
15	63	328	5:28	1	0.816	A BB	85703.	50.000	NG/ML	2.44
16	96	293	4:53	1	0.729	M XX PAF 11/11/93	71285.	100.000	NG/ML	4.88
17	83	411	6:51	1	1.022	A BB	84435.	50.000	NG/ML	2.44
18	62	468	7:48	1	1.164	A BB	64417.	50.000	NG/ML	2.44
19	43	382	6:22	1	0.950	A BB	16974.	50.000	NG/ML	2.44
20	97	429	7:09	2	0.846	A BB	82774.	50.000	NG/ML	2.44
21	117	446	7:26	2	0.880	A BB	84494.	50.000	NG/ML	2.44
22	43	333	5:33	2	0.657	A BB	104177.	50.000	NG/ML	2.44
23	83	591	9:51	2	1.166	A BB	77634.	50.000	NG/ML	2.44
24	63	560	9:20	2	1.105	A BB	43496.	50.000	NG/ML	2.44
25	75	714	11:54	2	1.408	A BB	59812.	50.000	NG/ML	2.44
26	130	535	8:55	2	1.055	A BB	51139.	50.000	NG/ML	2.44
27	129	788	13:08	2	1.554	A BB	67344.	50.000	NG/ML	2.44
28	97	737	12:17	2	1.454	A BB	37526.	50.000	NG/ML	2.44
29	78	466	7:46	2	0.919	A BB	101755.	50.000	NG/ML	2.44
30	75	645	10:45	2	1.272	A BB	61596.	50.000	NG/ML	2.44
31	173	987	16:27	2	1.947	A BB	72543.	50.000	NG/ML	2.44
32	43	665	11:05	3	0.767	A BV	44606.	50.000	NG/ML	2.44
33	43	773	12:53	3	0.892	A BB	30721.	50.000	NG/ML	2.44
34	164	756	12:36	3	0.872	A BB	56485.	50.000	NG/ML	2.44
35	83	1061	17:41	3	1.224	A BB	71351.	50.000	NG/ML	2.44
36	91	686	11:26	3	0.791	A BB	123211.	50.000	NG/ML	2.44
37	112	871	14:31	3	1.005	A BB	107288.	50.000	NG/ML	2.44
38	106	888	14:48	3	1.024	A BB	53205.	50.000	NG/ML	2.44
39	104	964	16:04	3	1.112	A BB	116742.	50.000	NG/ML	2.44
40	106	961	16:01	3	1.108	A BB	72901.	50.000	NG/ML	2.44

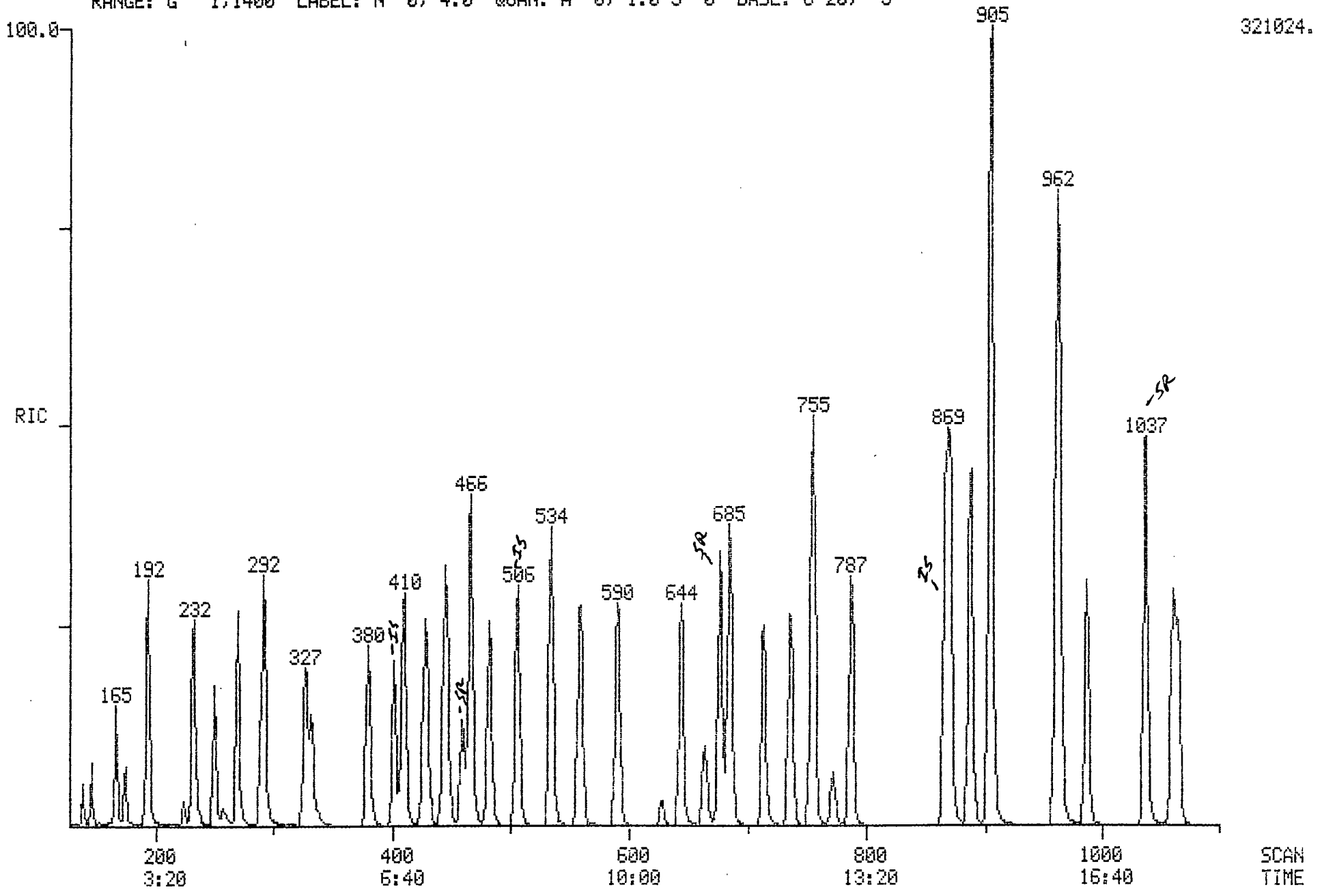
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.96	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.97	1.129	1.01	50.00	50.00	2.380	2.380	1.00
5	11:22	0.99	0.787	0.99	50.00	50.00	1.029	1.029	1.00
6	17:14	1.00	1.193	1.00	50.00	50.00	0.872	0.872	1.00
7	2:42	0.84	0.387	0.88	50.00	50.00	0.780	0.780	1.00
8	3:16	0.84	0.468	0.88	50.00	50.00	1.262	1.262	1.00
9	2:51	0.84	0.408	0.88	50.00	50.00	0.989	0.989	1.00
10	3:24	0.85	0.487	0.88	50.00	50.00	0.987	0.987	1.00
11	4:58	0.91	0.711	0.94	50.00	50.00	1.573	1.573	1.00
12	4:27	0.88	0.637	0.92	50.00	50.00	0.439	0.439	1.00
13	4:41	0.89	0.671	0.93	50.00	50.00	4.369	4.369	1.00
14	4:25	0.88	0.632	0.91	50.00	50.00	1.534	1.534	1.00
15	5:51	0.93	0.838	0.97	50.00	50.00	4.233	4.233	1.00
16	5:19	0.92	0.761	0.96	100.00	100.00	1.760	1.760	1.00
17	7:06	0.96	1.017	1.01	50.00	50.00	4.170	4.170	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.97	1.146	1.02	50.00	50.00	3.182	3.182	1.00
19	6:39	0.96	0.952	1.00	50.00	50.00	0.838	0.838	1.00
20	7:24	0.97	0.859	0.99	50.00	50.00	0.792	0.792	1.00
21	7:40	0.97	0.890	0.99	50.00	50.00	0.808	0.808	1.00
22	5:54	0.94	0.685	0.96	50.00	50.00	0.997	0.997	1.00
23	9:58	0.99	1.157	1.01	50.00	50.00	0.743	0.743	1.00
24	9:27	0.99	1.097	1.01	50.00	50.00	0.416	0.416	1.00
25	11:57	1.00	1.387	1.02	50.00	50.00	0.572	0.572	1.00
26	9:04	0.98	1.052	1.00	50.00	50.00	0.489	0.489	1.00
27	13:09	1.00	1.526	1.02	50.00	50.00	0.644	0.644	1.00
28	12:19	1.00	1.429	1.02	50.00	50.00	0.359	0.359	1.00
29	7:59	0.97	0.926	0.99	50.00	50.00	0.974	0.974	1.00
30	10:49	0.99	1.255	1.01	50.00	50.00	0.589	0.589	1.00
31	16:25	1.00	1.905	1.02	50.00	50.00	0.694	0.694	1.00
32	11:09	0.99	0.772	0.99	50.00	50.00	0.453	0.453	1.00
33	12:53	1.00	0.892	1.00	50.00	50.00	0.312	0.312	1.00
34	12:38	1.00	0.874	1.00	50.00	50.00	0.573	0.573	1.00
35	17:38	1.00	1.220	1.00	50.00	50.00	0.724	0.724	1.00
36	11:30	0.99	0.796	0.99	50.00	50.00	1.250	1.250	1.00
37	14:31	1.00	1.005	1.00	50.00	50.00	1.089	1.089	1.00
38	14:47	1.00	1.023	1.00	50.00	50.00	0.540	0.540	1.00
39	16:02	1.00	1.110	1.00	50.00	50.00	1.185	1.185	1.00
40	16:00	1.00	1.107	1.00	50.00	50.00	0.740	0.740	1.00

RIC
11/12/93 9:17:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1112 #1
CALI: 50VZ1112 #3

SCANS 125 TO 1100



Quantitation Report File: 50VZ1112

Data: 50VZ1112.TI
11/12/93 9:17:00
Sample: VSTD050
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	402	6:42	1	1.000	A BB	36487.	50.000 NG/ML	2.44
2	114	506	8:26	2	1.000	A BB	184787.	50.000 NG/ML	2.44
3	117	866	14:26	3	1.000	A BB	175210.	50.000 NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	459	7:39	1	1.142	A BB	75343.	50.000	NG/ML	2.44
5	98	677	11:17	3	0.782	A BB	175811.	50.000	NG/ML	2.44
6	95	1037	17:17	3	1.197	A BB	140233.	50.000	NG/UL	2.44
7	50	136	2:16	1	0.338	A BB	20240.	50.000	NG/ML	2.44
8	94	165	2:45	1	0.410	A BB	42686.	50.000	NG/ML	2.44
9	62	144	2:24	1	0.358	A BB	27489.	50.000	NG/ML	2.44
10	64	173	2:53	1	0.430	A BB	33226.	50.000	NG/ML	2.44
11	84	269	4:29	1	0.669	A BB	59533.	50.000	NG/ML	2.44
12	43	235	3:55	1	0.585	A BB	14298.	50.000	NG/ML	2.44
13	76	250	4:10	1	0.622	A BB	129911.	50.000	NG/ML	2.44
14	96	232	3:52	1	0.577	A BB	52362.	50.000	NG/ML	2.44
15	63	327	5:27	1	0.813	A BB	128887.	50.000	NG/ML	2.44
16	96	292	4:52	1	0.726	M XX DAT. 11/12/93	119450.	100.000	NG/ML	4.88
17	83	410	6:50	1	1.020	A BB	136178.	50.000	NG/ML	2.44
18	62	467	7:47	1	1.162	A BB	101250.	50.000	NG/ML	2.44
19	43	381	6:21	1	0.948	A BB	24463.	50.000	NG/ML	2.44
20	97	428	7:08	2	0.846	A BB	131281.	50.000	NG/ML	2.44
21	117	445	7:25	2	0.879	A BB	147277.	50.000	NG/ML	2.44
22	43	332	5:32	2	0.656	A BB	152139.	50.000	NG/ML	2.44
23	83	590	9:50	2	1.166	A BB	129787.	50.000	NG/ML	2.44
24	63	559	9:19	2	1.105	A BB	66983.	50.000	NG/ML	2.44
25	75	714	11:54	2	1.411	A BB	87863.	50.000	NG/ML	2.44
26	130	534	8:54	2	1.055	A BB	92138.	50.000	NG/ML	2.44
27	129	787	13:07	2	1.555	A BB	131758.	50.000	NG/ML	2.44
28	97	736	12:16	2	1.455	A BB	64235.	50.000	NG/ML	2.44
29	78	465	7:45	2	0.919	A BB	161352.	50.000	NG/ML	2.44
30	75	644	10:44	2	1.273	A BB	96326.	50.000	NG/ML	2.44
31	173	986	16:26	2	1.949	A BB	125470.	50.000	NG/ML	2.44
32	43	664	11:04	3	0.767	A BV	69632.	50.000	NG/ML	2.44
33	43	772	12:52	3	0.891	A BB	47605.	50.000	NG/ML	2.44
34	164	755	12:35	3	0.872	A BB	100232.	50.000	NG/ML	2.44
35	83	1060	17:40	3	1.224	A BB	115253.	50.000	NG/ML	2.44
36	91	685	11:25	3	0.791	A BB	204838.	50.000	NG/ML	2.44
37	112	870	14:30	3	1.005	A BB	183980.	50.000	NG/ML	2.44
38	106	888	14:48	3	1.025	A BB	91619.	50.000	NG/ML	2.44
39	104	963	16:03	3	1.112	A BB	193913.	50.000	NG/ML	2.44
40	106	961	16:01	3	1.110	A BB	121124.	50.000	NG/ML	2.44

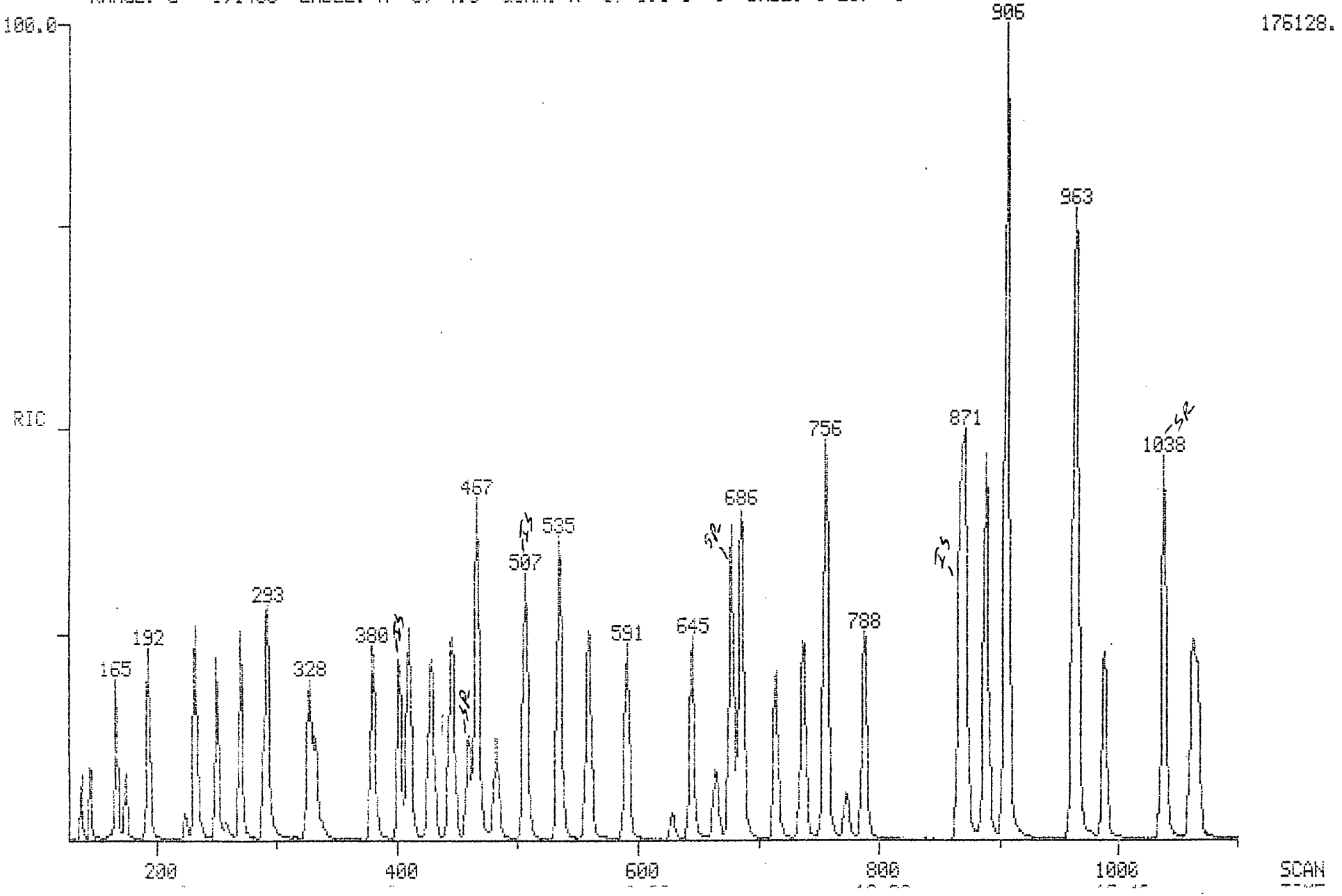
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.96	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.97	1.129	1.01	50.00	50.00	2.065	2.065	1.00
5	11:22	0.99	0.787	0.99	50.00	50.00	1.003	1.003	1.00
6	17:14	1.00	1.193	1.00	50.00	50.00	0.800	0.800	1.00
7	2:42	0.84	0.387	0.88	50.00	50.00	0.555	0.555	1.00
8	3:16	0.84	0.468	0.88	50.00	50.00	1.170	1.170	1.00
9	2:51	0.84	0.408	0.88	50.00	50.00	0.753	0.753	1.00
10	3:24	0.85	0.487	0.88	50.00	50.00	0.911	0.911	1.00
11	4:58	0.90	0.711	0.94	50.00	50.00	1.632	1.632	1.00
12	4:27	0.88	0.637	0.92	50.00	50.00	0.392	0.392	1.00
13	4:41	0.89	0.671	0.93	50.00	50.00	3.560	3.560	1.00
14	4:25	0.88	0.632	0.91	50.00	50.00	1.435	1.435	1.00
15	5:51	0.93	0.838	0.97	50.00	50.00	3.532	3.532	1.00
16	5:19	0.92	0.761	0.95	100.00	100.00	1.637	1.637	1.00
17	7:06	0.96	1.017	1.00	50.00	50.00	3.732	3.732	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.97	1.146	1.01	50.00	50.00	2.775	2.775	1.00
19	6:39	0.95	0.952	1.00	50.00	50.00	0.670	0.670	1.00
20	7:24	0.96	0.859	0.98	50.00	50.00	0.710	0.710	1.00
21	7:40	0.97	0.890	0.99	50.00	50.00	0.797	0.797	1.00
22	5:54	0.94	0.685	0.96	50.00	50.00	0.823	0.823	1.00
23	9:58	0.99	1.157	1.01	50.00	50.00	0.702	0.702	1.00
24	9:27	0.99	1.097	1.01	50.00	50.00	0.362	0.362	1.00
25	11:57	1.00	1.387	1.02	50.00	50.00	0.475	0.475	1.00
26	9:04	0.98	1.052	1.00	50.00	50.00	0.499	0.499	1.00
27	13:09	1.00	1.526	1.02	50.00	50.00	0.713	0.713	1.00
28	12:19	1.00	1.429	1.02	50.00	50.00	0.348	0.348	1.00
29	7:59	0.97	0.926	0.99	50.00	50.00	0.873	0.873	1.00
30	10:49	0.99	1.255	1.01	50.00	50.00	0.521	0.521	1.00
31	16:25	1.00	1.905	1.02	50.00	50.00	0.679	0.679	1.00
32	11:09	0.99	0.772	0.99	50.00	50.00	0.397	0.397	1.00
33	12:53	1.00	0.892	1.00	50.00	50.00	0.272	0.272	1.00
34	12:38	1.00	0.874	1.00	50.00	50.00	0.572	0.572	1.00
35	17:38	1.00	1.220	1.00	50.00	50.00	0.658	0.658	1.00
36	11:30	0.99	0.796	0.99	50.00	50.00	1.169	1.169	1.00
37	14:31	1.00	1.005	1.00	50.00	50.00	1.050	1.050	1.00
38	14:47	1.00	1.023	1.00	50.00	50.00	0.523	0.523	1.00
39	16:02	1.00	1.110	1.00	50.00	50.00	1.107	1.107	1.00
40	16:00	1.00	1.107	1.00	50.00	50.00	0.691	0.691	1.00

RIC
11/13/93 10:41:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1113Z #1
CALI: 50VZ1113Z #3

SCANS 125 TO 1100



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uantitation Report File: 50VZ1113Z

ata: 50VZ1113Z.TI
1/13/93 10:41:00
ample: VSTD050
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
ormula: Instrument: 026 Weight: 0.000
ubmitted by: ENCOTEC Analyst: DW Acct. No.: 75100

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	23789.	50.000	NG/ML	2.44
2	114	507	8:27	2	1.000	A BB	116946.	50.000	NG/ML	2.44
3	117	867	14:27	3	1.000	A BB	107587.	50.000	NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	460	7:40	1	1.144	A BB	34425.	50.000	NG/ML	2.44
5	98	678	11:18	3	0.782	A BB	113294.	50.000	NG/ML	2.44
6	95	1038	17:18	3	1.197	A BB	82157.	50.000	NG/UL	2.44
7	50	136	2:16	1	0.338	A BB	17696.	50.000	NG/ML	2.44
8	94	165	2:45	1	0.410	A BB	32497.	50.000	NG/ML	2.44
9	62	143	2:23	1	0.356	A BV	22338.	50.000	NG/ML	2.44
10	64	173	2:53	1	0.430	A BB	20581.	50.000	NG/ML	2.44
11	84	270	4:30	1	0.672	A BB	32784.	50.000	NG/ML	2.44
12	43	235	3:55	1	0.585	A BB	6348.	50.000	NG/ML	2.44
13	76	250	4:10	1	0.622	A BB	88295.	50.000	NG/ML	2.44
14	96	232	3:52	1	0.577	A BV	33211.	50.000	NG/ML	2.44
15	63	328	5:28	1	0.816	A BB	70820.	50.000	NG/ML	2.44
16	96	293	4:53	1	0.729	M XX DA7 11/13/93	73532.	100.000	NG/ML	4.88
17	83	410	6:50	1	1.020	A BB	71930.	50.000	NG/ML	2.44
18	62	467	7:47	1	1.162	A BB	41438.	50.000	NG/ML	2.44
19	43	382	6:22	1	0.950	A BB	10785.	50.000	NG/ML	2.44
20	97	429	7:09	2	0.846	A BB	62175.	50.000	NG/ML	2.44
21	117	446	7:26	2	0.880	A BB	63416.	50.000	NG/ML	2.44
22	43	333	5:33	2	0.657	A BB	71195.	50.000	NG/ML	2.44
23	83	591	9:51	2	1.166	A BB	61256.	50.000	NG/ML	2.44
24	63	559	9:19	2	1.103	A BB	41136.	50.000	NG/ML	2.44
25	75	715	11:55	2	1.410	A BB	43689.	50.000	NG/ML	2.44
26	130	535	8:55	2	1.055	A BB	53584.	50.000	NG/ML	2.44
27	129	788	13:08	2	1.554	A BB	60086.	50.000	NG/ML	2.44
28	97	737	12:17	2	1.454	A BB	34875.	50.000	NG/ML	2.44
29	78	466	7:46	2	0.919	A BB	103747.	50.000	NG/ML	2.44
30	75	645	10:45	2	1.272	A BB	55010.	50.000	NG/ML	2.44
31	173	988	16:28	2	1.949	A BB	50415.	50.000	NG/ML	2.44
32	43	665	11:05	3	0.767	A BV	30797.	50.000	NG/ML	2.44
33	43	773	12:53	3	0.892	A BB	20491.	50.000	NG/ML	2.44
34	164	756	12:36	3	0.872	A BB	56378.	50.000	NG/ML	2.44
35	83	1062	17:42	3	1.225	A BB	58967.	50.000	NG/ML	2.44
36	91	686	11:26	3	0.791	A BB	129073.	50.000	NG/ML	2.44
37	112	871	14:31	3	1.005	A BB	110640.	50.000	NG/ML	2.44
38	106	889	14:49	3	1.025	A BB	54091.	50.000	NG/ML	2.44
39	104	964	16:04	3	1.112	A BB	110784.	50.000	NG/ML	2.44
40	106	962	16:02	3	1.110	A BB	68316.	50.000	NG/ML	2.44

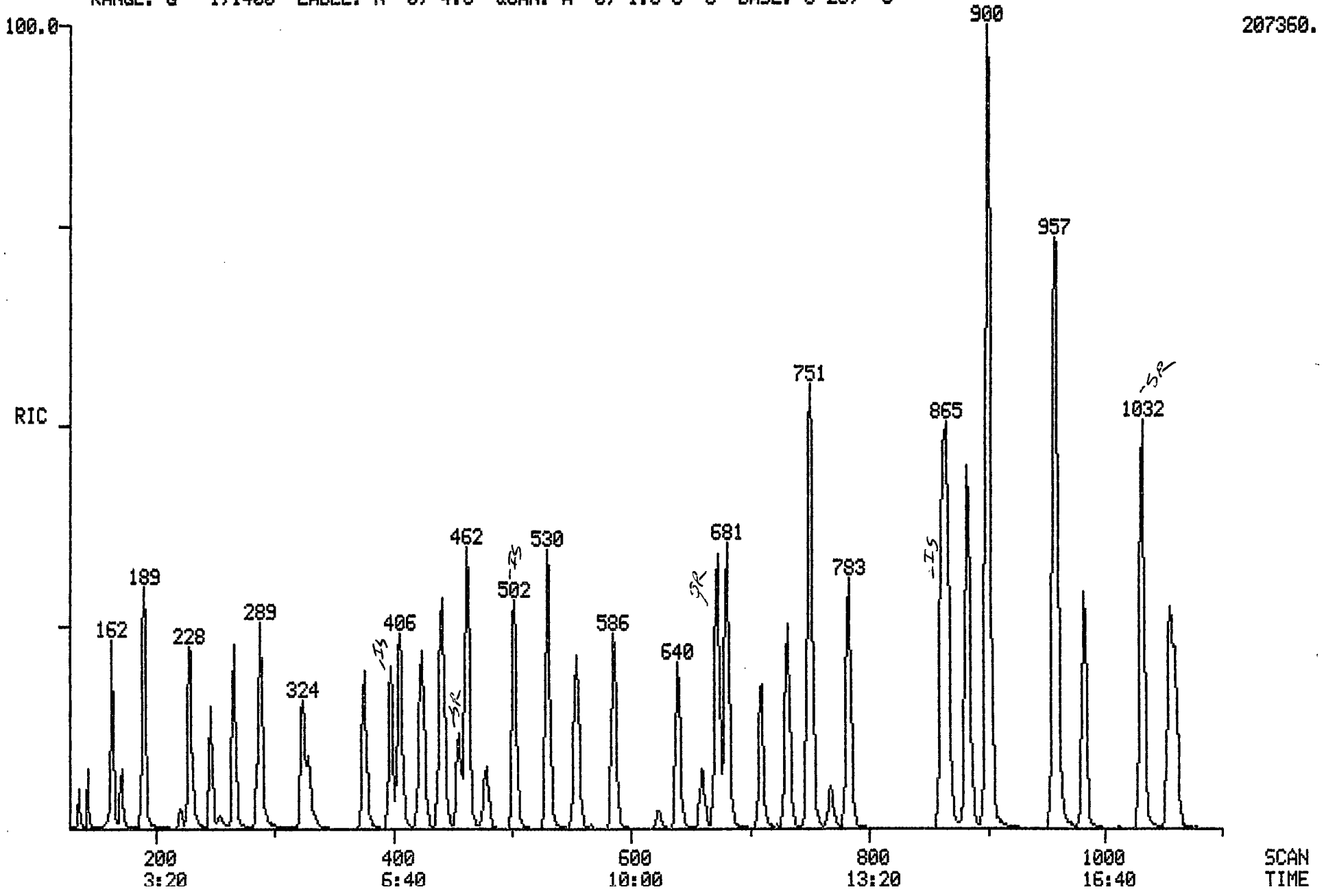
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	0.96	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:37	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:53	0.97	1.129	1.01	50.00	50.00	1.447	1.447	1.00
5	11:22	0.99	0.787	0.99	50.00	50.00	1.053	1.053	1.00
6	17:14	1.00	1.193	1.00	50.00	50.00	0.764	0.764	1.00
7	2:42	0.84	0.387	0.88	50.00	50.00	0.744	0.744	1.00
8	3:16	0.84	0.468	0.88	50.00	50.00	1.366	1.366	1.00
9	2:51	0.84	0.408	0.87	50.00	50.00	0.939	0.939	1.00
10	3:24	0.85	0.487	0.88	50.00	50.00	0.865	0.865	1.00
11	4:58	0.91	0.711	0.94	50.00	50.00	1.378	1.378	1.00
12	4:27	0.88	0.637	0.92	50.00	50.00	0.267	0.267	1.00
13	4:41	0.89	0.671	0.93	50.00	50.00	3.712	3.712	1.00
14	4:25	0.88	0.632	0.91	50.00	50.00	1.396	1.396	1.00
15	5:51	0.93	0.838	0.97	50.00	50.00	2.977	2.977	1.00
16	5:19	0.92	0.761	0.96	100.00	100.00	1.546	1.546	1.00
17	7:06	0.96	1.017	1.00	50.00	50.00	3.024	3.024	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	8:00	0.97	1.146	1.01	50.00	50.00	1.742	1.742	1.00
19	6:39	0.96	0.952	1.00	50.00	50.00	0.453	0.453	1.00
20	7:24	0.97	0.859	0.99	50.00	50.00	0.532	0.532	1.00
21	7:40	0.97	0.890	0.99	50.00	50.00	0.542	0.542	1.00
22	5:54	0.94	0.685	0.96	50.00	50.00	0.609	0.609	1.00
23	9:58	0.99	1.157	1.01	50.00	50.00	0.524	0.524	1.00
24	9:27	0.99	1.097	1.01	50.00	50.00	0.352	0.352	1.00
25	11:57	1.00	1.387	1.02	50.00	50.00	0.374	0.374	1.00
26	9:04	0.98	1.052	1.00	50.00	50.00	0.458	0.458	1.00
27	13:09	1.00	1.526	1.02	50.00	50.00	0.514	0.514	1.00
28	12:19	1.00	1.429	1.02	50.00	50.00	0.298	0.298	1.00
29	7:59	0.97	0.926	0.99	50.00	50.00	0.887	0.887	1.00
30	10:49	0.99	1.255	1.01	50.00	50.00	0.470	0.470	1.00
31	16:25	1.00	1.905	1.02	50.00	50.00	0.431	0.431	1.00
32	11:09	0.99	0.772	0.99	50.00	50.00	0.286	0.286	1.00
33	12:53	1.00	0.892	1.00	50.00	50.00	0.190	0.190	1.00
34	12:38	1.00	0.874	1.00	50.00	50.00	0.524	0.524	1.00
35	17:38	1.00	1.220	1.00	50.00	50.00	0.548	0.548	1.00
36	11:30	0.99	0.796	0.99	50.00	50.00	1.200	1.200	1.00
37	14:31	1.00	1.005	1.00	50.00	50.00	1.028	1.028	1.00
38	14:47	1.00	1.023	1.00	50.00	50.00	0.503	0.503	1.00
39	16:02	1.00	1.110	1.00	50.00	50.00	1.030	1.030	1.00
40	16:00	1.00	1.107	1.00	50.00	50.00	0.635	0.635	1.00

RIC
11/28/93 11:28:00
SAMPLE: VSTD050
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50VZ1128 #1
CALI: 50VZ1128 #3

SCANS 125 TO 1100



Quantitation Report File: 50VZ1128

Data: 50VZ1128.TI
11/28/93 11:28:00
Sample: VSTD050
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C010 CHLOROMETHANE
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C035 ACETONE
13	C040 CARBON DISULFIDE
14	C045 1,1-DICHLOROETHENE
15	C050 1,1-DICHLOROETHANE
16	C055 TOTAL 1,2-DICHLOROETHENE
17	C060 CHLOROFORM
18	C065 1,2-DICHLOROETHANE
19	C110 2-BUTANONE
20	C115 1,1,1-TRICHLOROETHANE
21	C120 CARBON TETRACHLORIDE
22	C125 VINYL ACETATE
23	C130 BROMODICHLOROMETHANE
24	C140 1,2-DICHLOROPROPANE
25	C170 TRANS-1,3-DICHLOROPROPENE
26	C150 TRICHLOROETHENE
27	C155 DIBROMOCHLOROMETHANE
28	C160 1,1,2-TRICHLOROETHANE
29	C165 BENZENE
30	C145 CIS-1,3-DICHLOROPROPENE
31	C180 BROMOFORM
32	C205 4-METHYL-2-PENTANONE
33	C210 2-HEXANONE
34	C220 TETRACHLOROETHENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 TOTAL XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	398	6:38	1	1.000	A BB	23959.	50.000 NG/ML	2.44
2	114	502	8:22	2	1.000	A BB	118220.	50.000 NG/ML	2.44
3	117	862	14:22	3	1.000	A BB	126656.	50.000 NG/ML	2.44

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
4	65	455	7:35	1	1.143	A BB	42229.	50.000	NG/ML	2.44
5	98	673	11:13	3	0.781	A BB	117345.	50.000	NG/ML	2.44
6	95	1032	17:12	3	1.197	A BB	93340.	50.000	NG/UL	2.44
7	50	133	2:13	1	0.334	A BB	12027.	50.000	NG/ML	2.44
8	94	162	2:42	1	0.407	A BB	40224.	50.000	NG/ML	2.44
9	62	141	2:21	1	0.354	A BV	16073.	50.000	NG/ML	2.44
10	64	170	2:50	1	0.427	A BB	19694.	50.000	NG/ML	2.44
11	84	266	4:26	1	0.668	A BB	33273.	50.000	NG/ML	2.44
12	43	232	3:52	1	0.583	A BB	9061.	50.000	NG/ML	2.44
13	76	246	4:06	1	0.618	A BB	73882.	50.000	NG/ML	2.44
14	96	228	3:48	1	0.573	A BB	32702.	50.000	NG/ML	2.44
15	63	324	5:24	1	0.814	A BB	63191.	50.000	NG/ML	2.44
16	96	289	4:49	1	0.726	M XX	71104.	100.000	NG/ML	4.88
17	83	406	6:46	1	1.020	A BB	75802.	50.000	NG/ML	2.44
18	62	463	7:43	1	1.163	A BB	52528.	50.000	NG/ML	2.44
19	43	377	6:17	1	0.947	A BB	9986.	50.000	NG/ML	2.44
20	97	424	7:04	2	0.845	A BB	70499.	50.000	NG/ML	2.44
21	117	441	7:21	2	0.878	A BB	84793.	50.000	NG/ML	2.44
22	43	329	5:29	2	0.655	A BB	58601.	50.000	NG/ML	2.44
23	83	586	9:46	2	1.167	A BB	70277.	50.000	NG/ML	2.44
24	63	555	9:15	2	1.106	A BB	35251.	50.000	NG/ML	2.44
25	75	710	11:50	2	1.414	A BB	42443.	50.000	NG/ML	2.44
26	130	530	8:50	2	1.056	A BB	59144.	50.000	NG/ML	2.44
27	129	783	13:03	2	1.560	A BB	87094.	50.000	NG/ML	2.44
28	97	732	12:12	2	1.458	A BB	40490.	50.000	NG/ML	2.44
29	78	462	7:42	2	0.920	A BB	90370.	50.000	NG/ML	2.44
30	75	640	10:40	2	1.275	A BB	48828.	50.000	NG/ML	2.44
31	173	982	16:22	2	1.956	A BB	76703.	50.000	NG/ML	2.44
32	43	660	11:00	3	0.766	A BV	31204.	50.000	NG/ML	2.44
33	43	768	12:48	3	0.891	A BB	20635.	50.000	NG/ML	2.44
34	164	751	12:31	3	0.871	A BB	69927.	50.000	NG/ML	2.44
35	83	1056	17:36	3	1.225	A BB	67904.	50.000	NG/ML	2.44
36	91	681	11:21	3	0.790	A BB	128117.	50.000	NG/ML	2.44
37	112	866	14:26	3	1.005	A BB	126779.	50.000	NG/ML	2.44
38	106	883	14:43	3	1.024	A BB	61360.	50.000	NG/ML	2.44
39	104	958	15:58	3	1.111	A BB	122855.	50.000	NG/ML	2.44
40	106	956	15:56	3	1.109	A BB	77441.	50.000	NG/ML	2.44

DAT 11/26/93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:39	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	8:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	14:25	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	7:37	1.00	1.145	1.00	50.00	50.00	1.763	1.763	1.00
5	11:15	1.00	0.780	1.00	50.00	50.00	0.926	0.926	1.00
6	17:15	1.00	1.197	1.00	50.00	50.00	0.737	0.737	1.00
7	2:14	0.99	0.336	1.00	50.00	50.00	0.502	0.502	1.00
8	2:43	0.99	0.409	1.00	50.00	50.00	1.679	1.679	1.00
9	2:22	0.99	0.356	1.00	50.00	50.00	0.671	0.671	1.00
10	2:51	0.99	0.429	1.00	50.00	50.00	0.822	0.822	1.00
11	4:27	1.00	0.669	1.00	50.00	50.00	1.389	1.389	1.00
12	3:53	1.00	0.584	1.00	50.00	50.00	0.378	0.378	1.00
13	4:08	0.99	0.622	0.99	50.00	50.00	3.084	3.084	1.00
14	3:49	1.00	0.574	1.00	50.00	50.00	1.365	1.365	1.00
15	5:25	1.00	0.815	1.00	50.00	50.00	2.637	2.637	1.00
16	4:50	1.00	0.727	1.00	100.00	100.00	1.484	1.484	1.00
17	6:48	1.00	1.023	1.00	50.00	50.00	3.164	3.164	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
18	7:45	1.00	1.165	1.00	50.00	50.00	2.192	2.192	1.00
19	6:19	0.99	0.950	1.00	50.00	50.00	0.417	0.417	1.00
20	7:06	1.00	0.845	1.00	50.00	50.00	0.596	0.596	1.00
21	7:23	1.00	0.879	1.00	50.00	50.00	0.717	0.717	1.00
22	5:30	1.00	0.655	1.00	50.00	50.00	0.496	0.496	1.00
23	9:49	0.99	1.169	1.00	50.00	50.00	0.594	0.594	1.00
24	9:17	1.00	1.105	1.00	50.00	50.00	0.298	0.298	1.00
25	11:52	1.00	1.413	1.00	50.00	50.00	0.359	0.359	1.00
26	8:52	1.00	1.056	1.00	50.00	50.00	0.500	0.500	1.00
27	13:06	1.00	1.560	1.00	50.00	50.00	0.737	0.737	1.00
28	12:15	1.00	1.458	1.00	50.00	50.00	0.343	0.343	1.00
29	7:44	1.00	0.921	1.00	50.00	50.00	0.764	0.764	1.00
30	10:42	1.00	1.274	1.00	50.00	50.00	0.413	0.413	1.00
31	16:25	1.00	1.954	1.00	50.00	50.00	0.649	0.649	1.00
32	11:03	1.00	0.766	1.00	50.00	50.00	0.246	0.246	1.00
33	12:51	1.00	0.891	1.00	50.00	50.00	0.163	0.163	1.00
34	12:33	1.00	0.871	1.00	50.00	50.00	0.552	0.552	1.00
35	17:39	1.00	1.224	1.00	50.00	50.00	0.536	0.536	1.00
36	11:24	1.00	0.791	1.00	50.00	50.00	1.012	1.012	1.00
37	14:28	1.00	1.003	1.00	50.00	50.00	1.001	1.001	1.00
38	14:46	1.00	1.024	1.00	50.00	50.00	0.484	0.484	1.00
39	16:01	1.00	1.111	1.00	50.00	50.00	0.970	0.970	1.00
40	15:59	1.00	1.109	1.00	50.00	50.00	0.611	0.611	1.00

V. VOLATILE RAW QC DATA

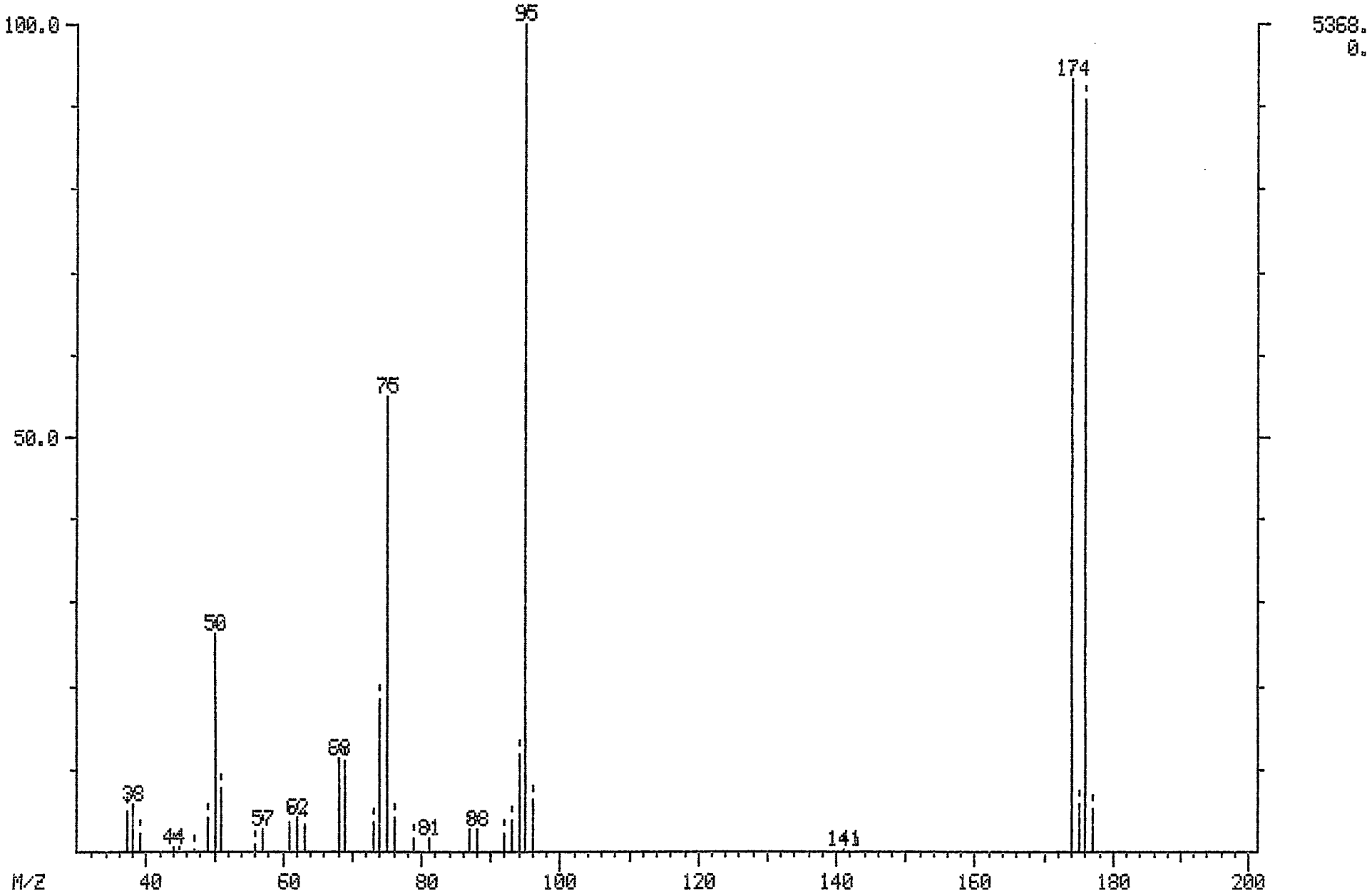
CASE # 21170
SDG # EXQ02

MASS SPECTRUM
11/11/93 8:43:00 + 17:14
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#1033 TO #1035 AVERAGED - #1016

DATA: BFB1111Z #1034
CALI: CALTAB #3

BASE M/Z: 95
RIC: 26816.

327

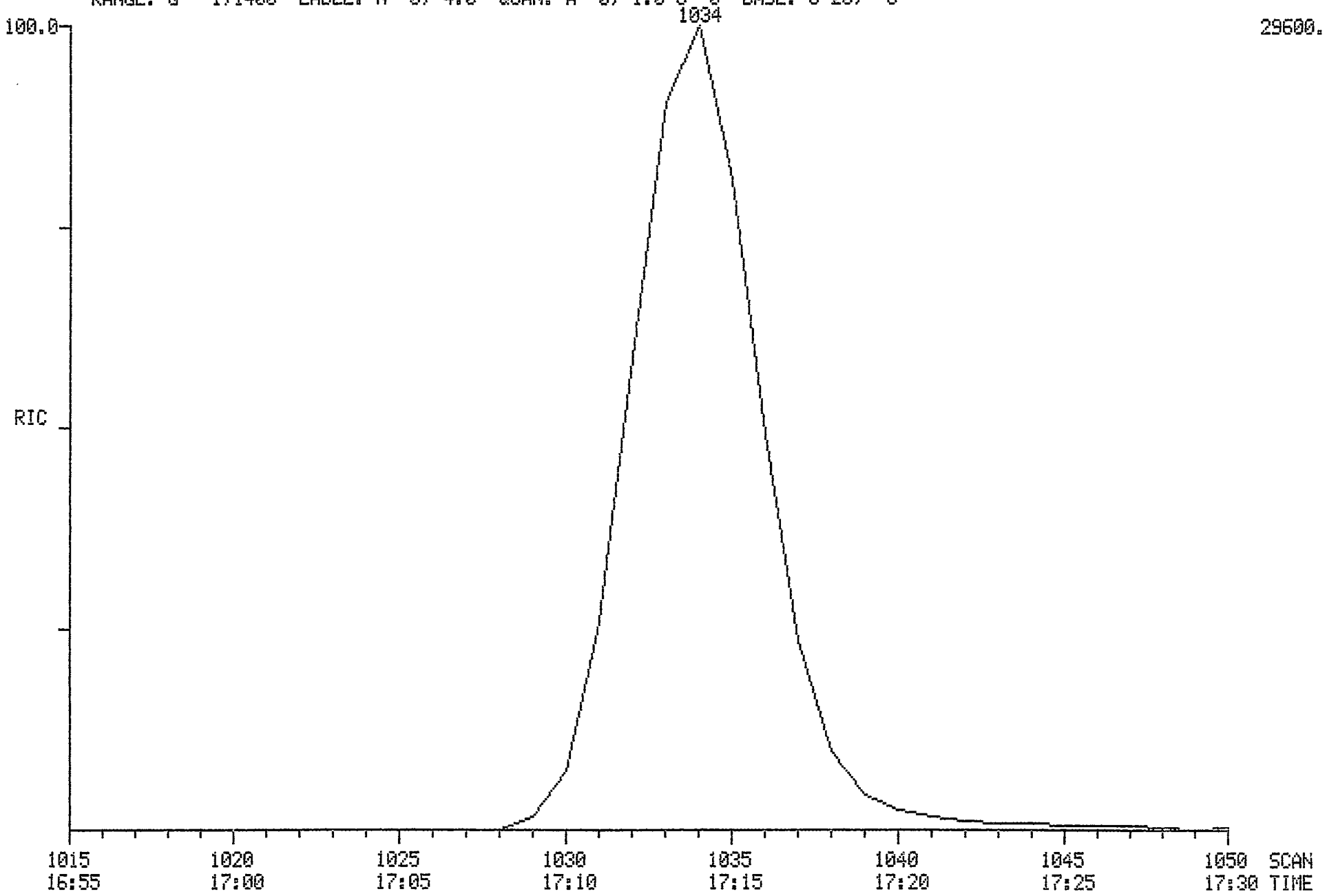


Mass List Data: BFB1111Z #1034 Base m/z: 95
11/11/93 8:43:00 + 17:14 Cali: CALTAB # 3 RIC: 26816.
Sample: BFB TUNE
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#1033 to #1035 averaged - #1016

37		0.00	0.	Minima	Min Inten: 0.
177				Maxima	# 0
Mass		% RA	Inten.		
37?	S	4.99	268.		
38?	S	5.68	305.		
39?	S	2.33	125.		
44?	S	0.60	32.		
45?	S	0.52	28.		
47?	S	0.15	8.		
49?	S	4.04	217.		
50?	S	26.38	1416.		
51?	S	7.62	409.		
56?	S	0.78	42.		
57?	S	2.78	149.		
61?	S	3.56	191.		
62?	S	4.15	223.		
63?	S	3.20	172.		
68?	S	11.20	601.		
69	S	11.18	600.		
73	S	3.67	197.		
74	S	18.50	993.		
75	S	54.92	2948.		
76	S	4.25	228.		
79	S	1.53	82.		
81	S	1.56	84.		
87	S	2.70	145.		
88	S	2.72	146.		
92	S	2.35	126.		
93	S	3.78	203.		
94	S	11.87	637.		
95	S	100.00	5368.		
96	S	6.35	341.		
141	S	0.28	15.		
143	S	0.13	7.		
174	S	93.44	5016.		
175	S	5.70	306.		
176	S	90.91	4880.		
177	S	5.35	287.		

RIC
11/11/93 8:43:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1.1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

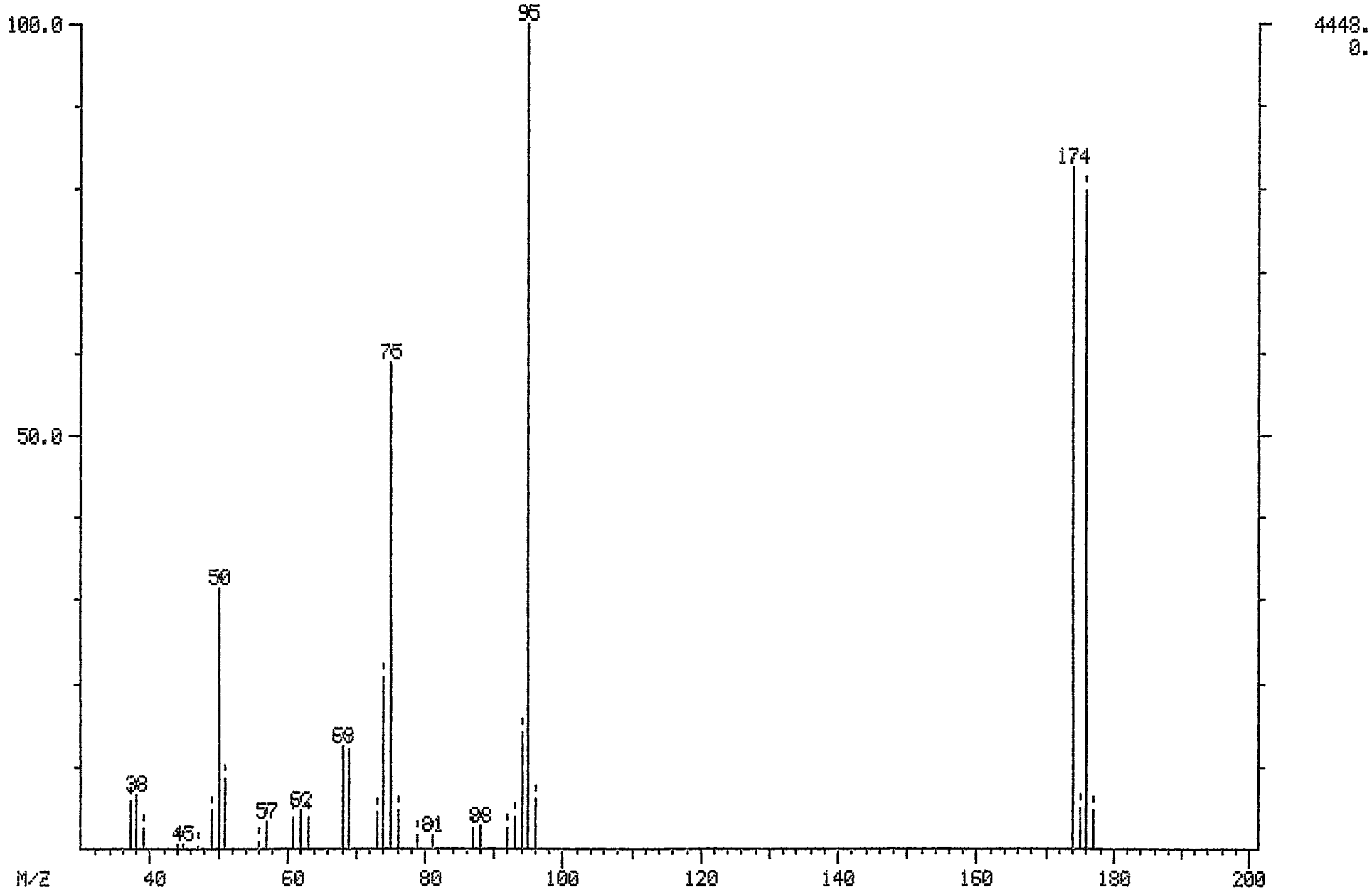
DATA: BFB1111Z #1033 SCANS 1015 TO 1050
CALI: CALTAB #3



MASS SPECTRUM
11/11/93 13:27:00 + 1:13
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#72 TO #74 AVERAGED - #61

DATA: BFB1111Z1 #73
CALI: CALTAB #3

BASE M/Z: 95
RIC: 22208.



030

Mass List Data: BFB1111Z1 # 73 Base m/z: 95
11/11/93 13:27:00 + 1:13 Cali: CALTAB # 3 RIC: 22208.
Sample: BFB TUNE
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#72 to #74 averaged - #61

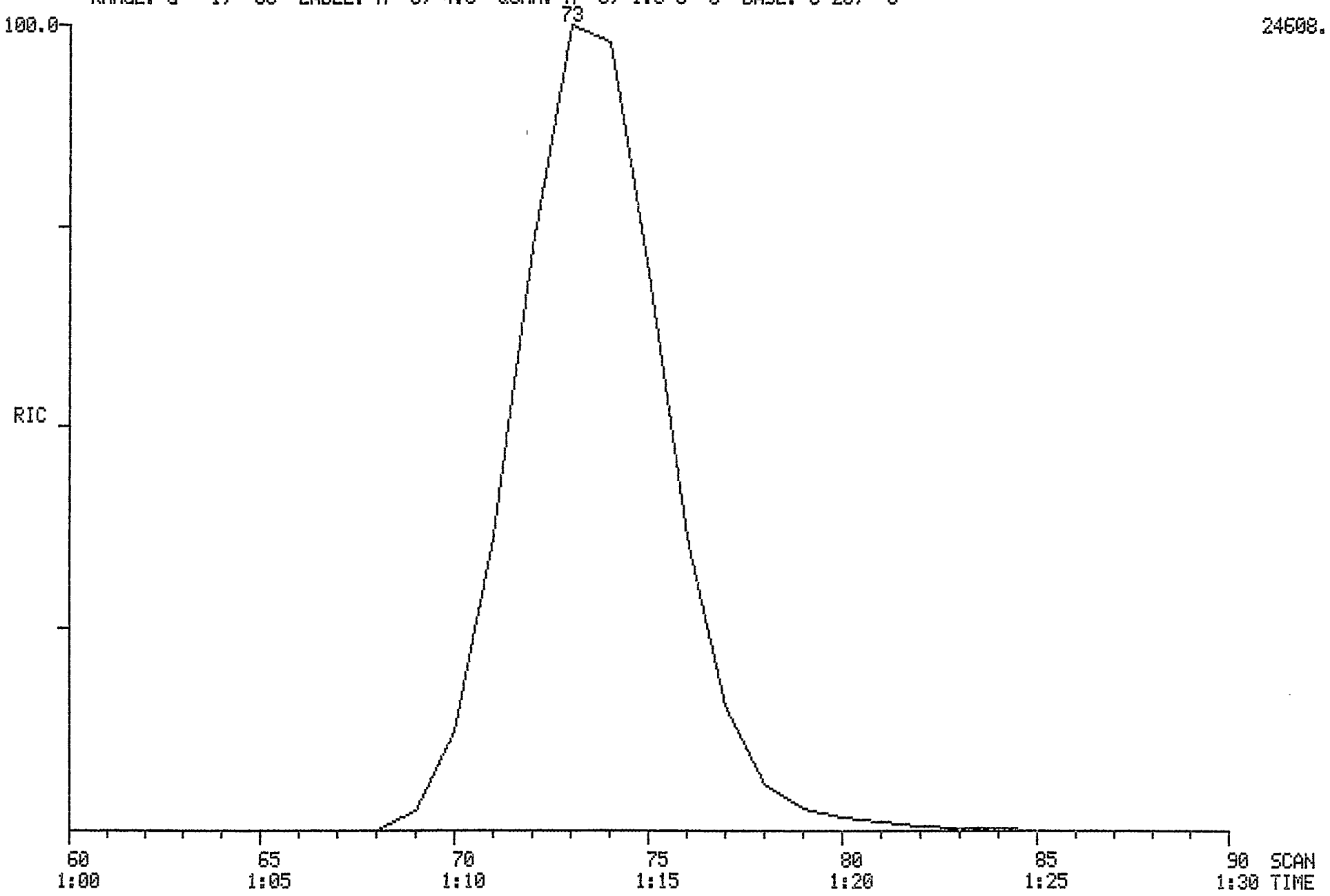
37 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

Mass		% RA	Inten.
37?	S	5.94	264.
38?	S	6.70	298.
39?	S	2.61	116.
44?	S	0.47	21.
45?	S	0.54	24.
47?	S	0.36	16.
49?	S	4.70	209.
50?	S	31.43	1398.
51?	S	8.66	385.
56?	S	0.85	38.
57?	S	3.28	146.
61?	S	3.96	176.
62?	S	4.63	206.
63?	S	3.75	167.
68?	S	12.46	554.
69	S	12.16	541.
73	S	4.43	197.
74	S	20.84	927.
75	S	58.72	2612.
76	S	4.56	203.
79	S	1.73	77.
81	S	1.78	79.
87	S	2.54	113.
88	S	2.63	117.
92	S	2.41	107.
93	S	4.00	178.
94	S	14.05	625.
95	S	100.00	4448.
96	S	6.03	268.
174	S	82.46	3668.
175	S	5.10	227.
176	S	79.95	3556.
177	S	4.83	215.

332

RIC
11/11/93 13:27:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
RANGE: G 1, 86 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

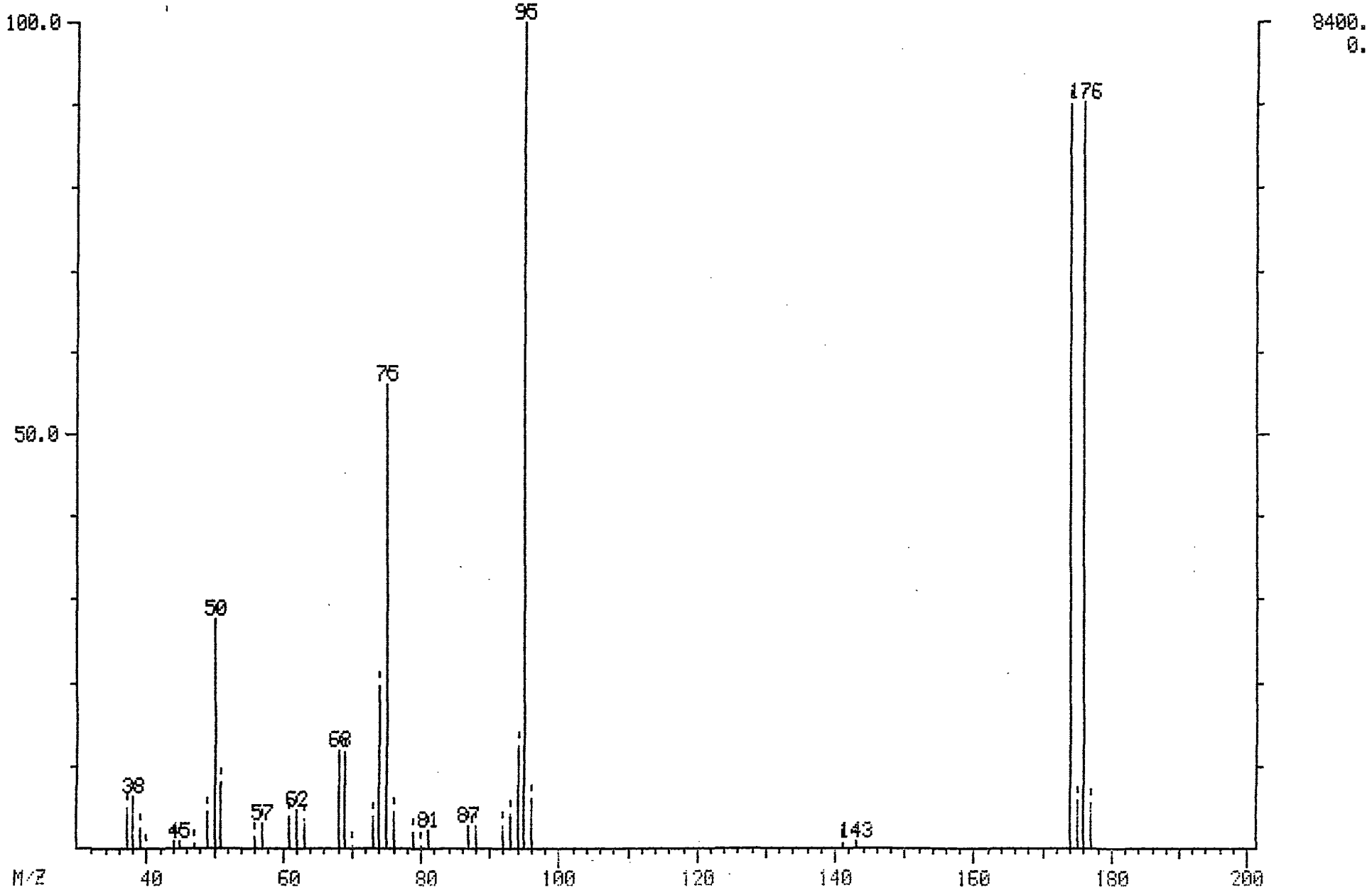
DATA: BFB1111Z1 #72 SCANS 60 TO 90
CALI: CALTAB #3



MASS SPECTRUM
11/12/93 9:04:00 + 6:58
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#417 TO #419 AVERAGED - #405

DATA: BFB1112Z #418
CALI: CALTAB #3

BASE M/Z: 95
RIC: 42880.



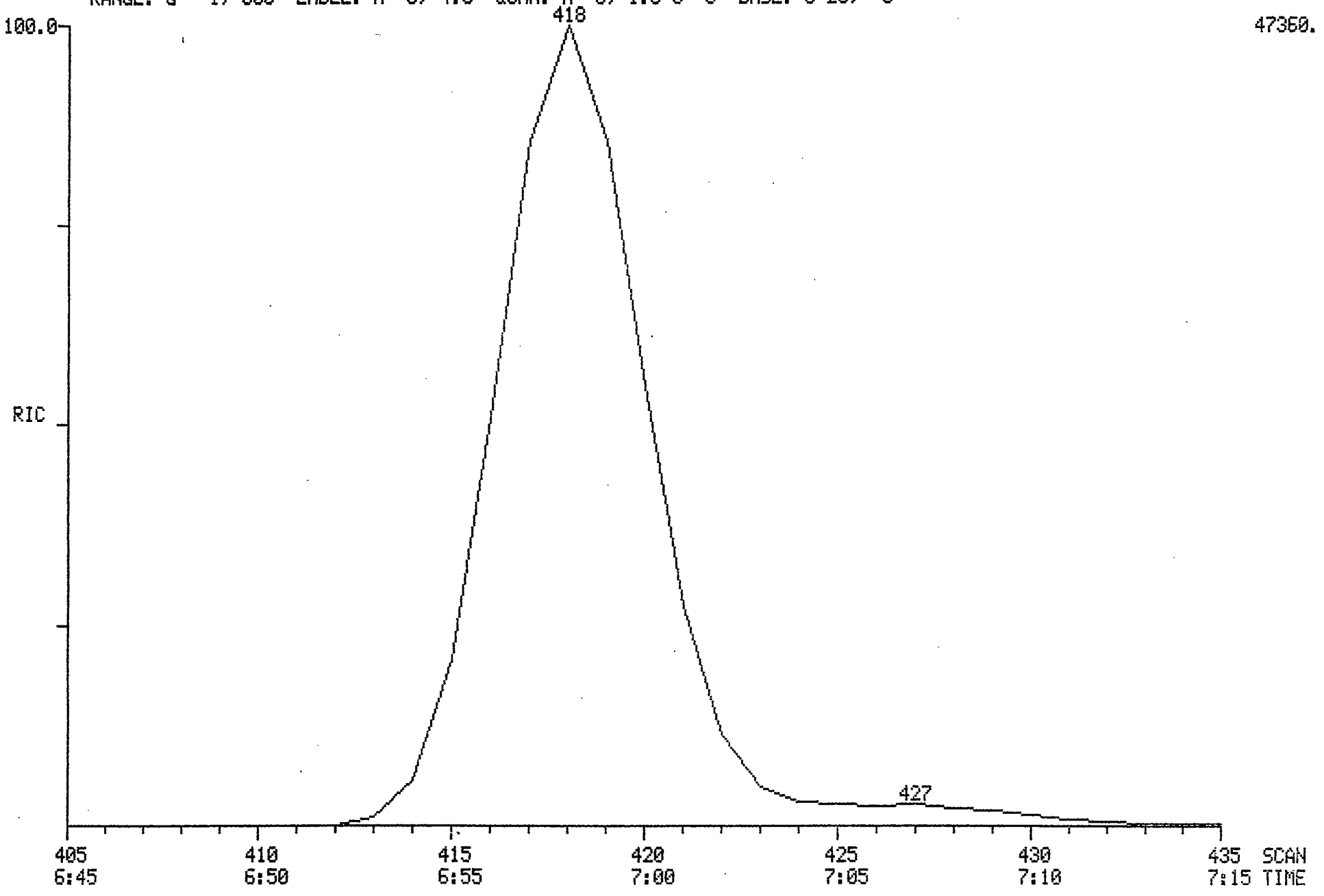
Mass List Data: BFB1112Z # 418 Base m/z: 95
11/12/93 9:04:00 + 6:58 Cali: CALTAB # 3 RIC: 42880.
Sample: BFB TUNE
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#417 to #419 averaged - #405

37		0.00	0.	Minima	Min Inten: 0.
177				Maxima	# 0
Mass		% RA	Inten.		
37?	S	5.10	428.		
38?	S	6.27	527.		
39?	S	2.58	217.		
40?	S	0.10	8.		
44?	S	0.74	62.		
45?	S	0.90	76.		
47?	S	0.42	35.		
49?	S	4.38	368.		
50?	S	27.57	2316.		
51?	S	8.08	679.		
56?	S	1.30	109.		
57?	S	3.15	265.		
61?	S	3.95	332.		
62?	S	4.56	383.		
63?	S	3.67	308.		
68?	S	11.89	999.		
69	S	11.73	985.		
70	S	0.19	16.		
73	S	4.00	336.		
74	S	19.69	1654.		
75	S	56.19	4720.		
76	S	4.55	382.		
79	S	2.01	169.		
80	S	0.30	25.		
81	S	2.13	179.		
87	S	2.79	234.		
88	S	2.68	225.		
92	S	2.64	222.		
93	S	4.13	347.		
94	S	12.36	1038.		
95	S	100.00	8400.		
96	S	6.20	521.		
141	S	0.69	58.		
143	S	0.85	71.		
174	S	90.19	7576.		
175	S	5.86	492.		
176	S	90.29	7584.		
177	S	5.52	464.		

RIC
11/12/93 9:04:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1, 500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB1112Z #417 SCANS 405 TO 435
CALI: CALTAB #3

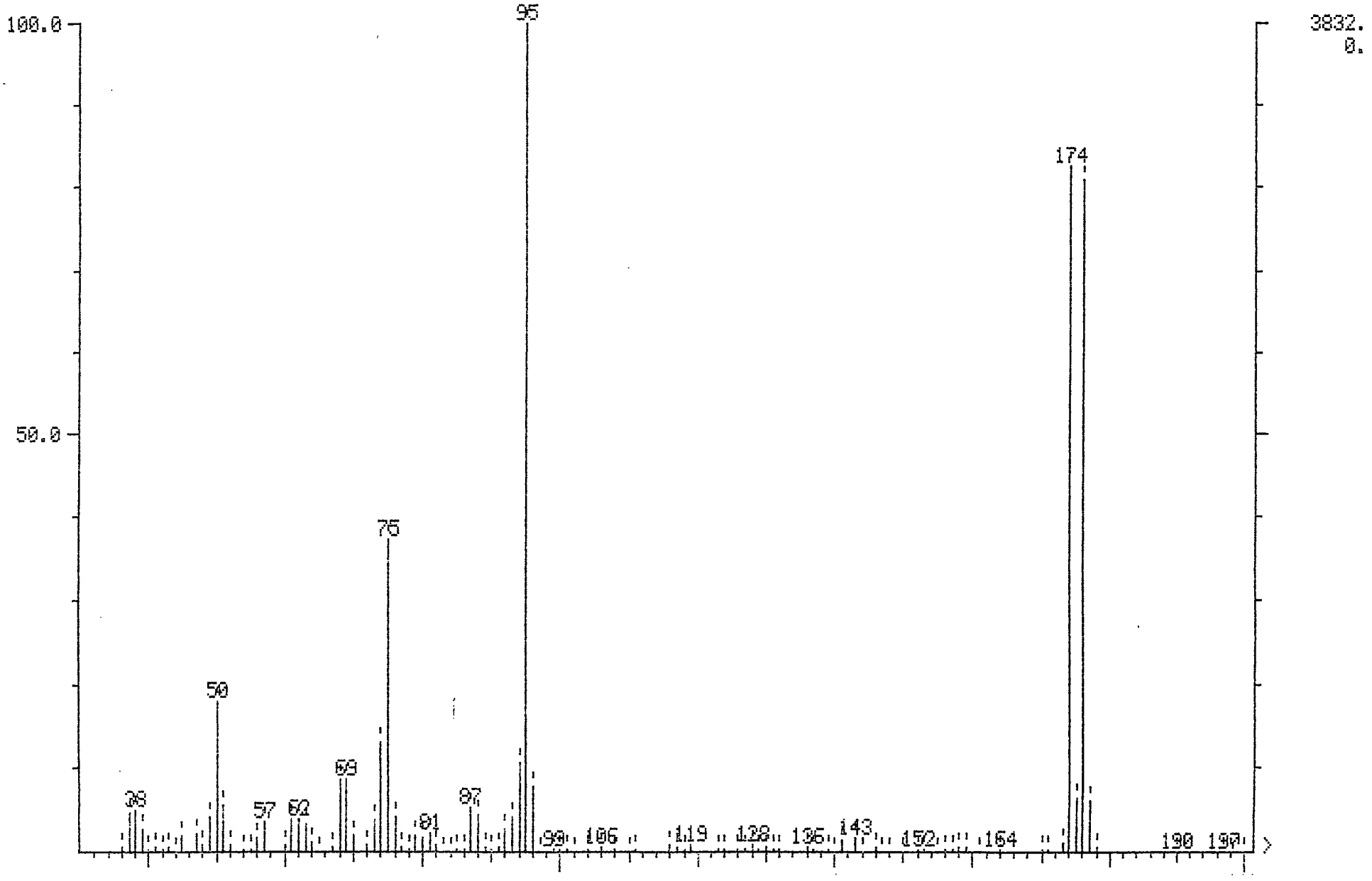
335



MASS SPECTRUM
11/13/93 7:01:00 + 17:10
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#1029 TO #1031 AVERAGED - #1015

DATA: BFB1113Z #1030
CALI: CALTAB #3

BASE M/Z: 95
RIC: 18528.

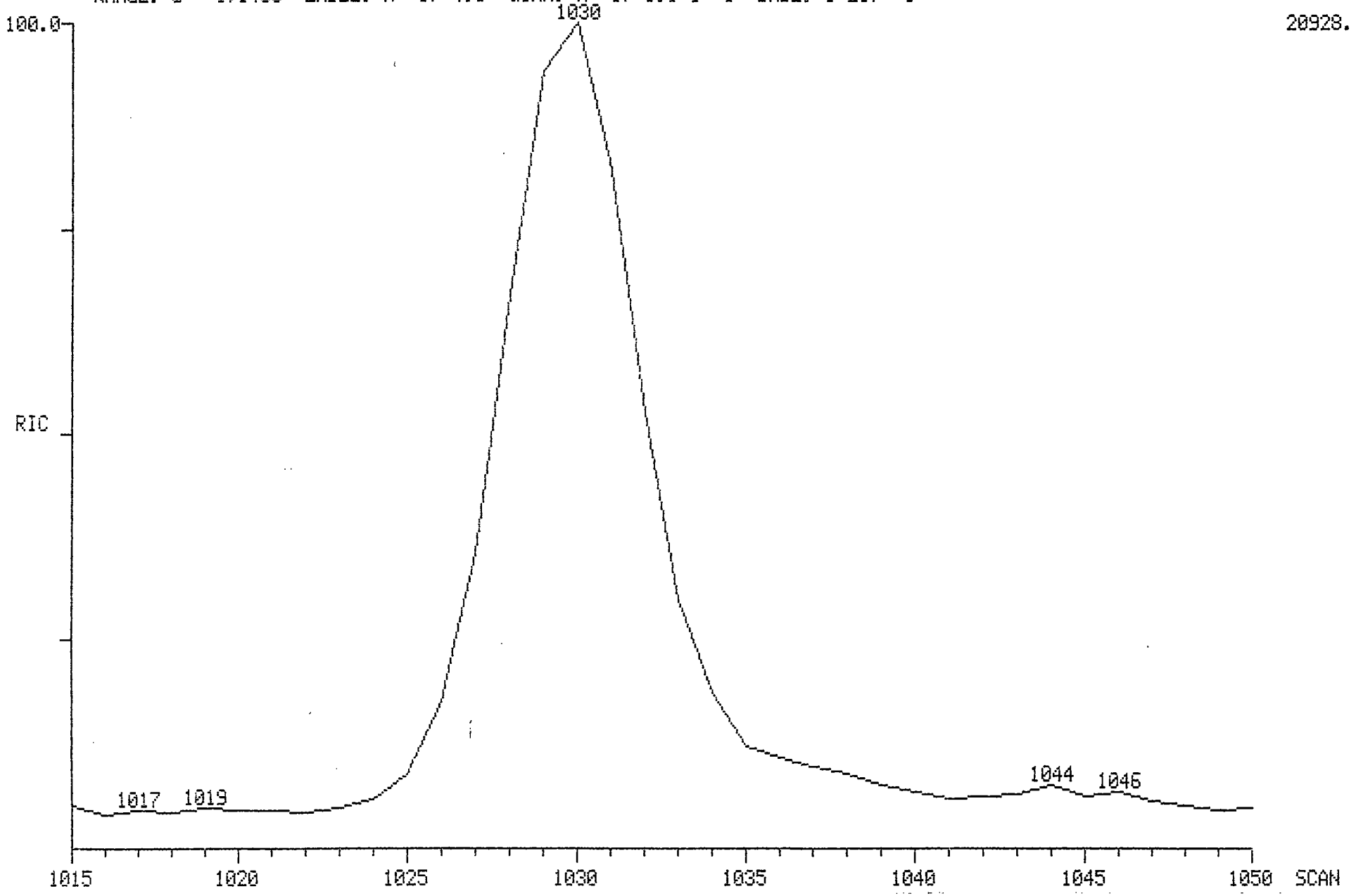


ass List Data: BFB1113Z #1030 Base m/z: 95
/13/93 7:01:00 + 17:10 Cali: CALTAB # 3 RIC: 18528.
ample: BFB TUNE
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#1029 to #1031 averaged - #1015

36		0.00	0.	Minima	Min	Inten:	7.
298				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
36?	S	0.68	26.	96	S	7.62	292.
37?	S	4.65	178.	99	S	0.26	10.
38?	S	4.96	190.	100	S	0.18	7.
39?	S	2.71	104.	104	S	0.34	13.
40?	S	0.29	11.	106	S	0.42	16.
41?	S	0.68	26.	111	S	0.29	11.
42?	S	0.29	11.	116	S	0.73	28.
43?	S	0.44	17.	117	S	0.68	26.
45?	S	1.96	75.	118	S	0.31	12.
47?	S	2.24	86.	119	S	0.84	32.
48?	S	0.89	34.	124	S	0.31	12.
49?	S	4.07	156.	126	S	0.29	11.
50?	S	17.85	684.	127	S	0.18	7.
51?	S	5.56	213.	128	S	0.84	32.
52?	S	0.86	33.	129	S	0.31	12.
54?	S	0.29	11.	130	S	0.47	18.
55?	S	0.29	11.	131	S	0.29	11.
56?	S	1.72	66.	132	S	0.31	12.
57?	S	3.50	134.	136	S	0.57	22.
60?	S	0.73	28.	141	S	1.25	48.
61?	S	3.81	146.	143	S	1.59	61.
62?	S	3.84	147.	146	S	0.44	17.
63?	S	3.34	128.	152	S	0.29	11.
64?	S	1.02	39.	153	S	0.29	11.
67?	S	0.44	17.	158	S	0.44	17.
68?	S	8.56	328.	159	S	0.42	16.
69	S	8.69	333.	164	S	0.18	7.
70	S	1.88	72.	170	S	0.29	11.
72	S	0.81	31.	171	S	0.18	7.
73	S	3.99	153.	173	S	1.10	42.
74	S	12.92	495.	174	S	82.57	3164.
75	S	37.37	1432.	175	S	6.29	241.
76	S	4.04	155.	176	S	81.00	3104.
77	S	0.50	19.	177	S	6.18	237.
78	S	0.37	14.	178	S	0.60	23.
79	S	1.88	72.	207	S	0.18	7.
80	S	1.54	59.	221	S	0.29	11.
81	S	2.14	82.	226	S	0.18	7.
82	S	0.78	30.	235	S	0.29	11.
85	S	0.18	7.	237	S	0.26	10.
86	S	0.29	11.	257	S	0.26	10.
87	S	5.25	201.	262	S	0.44	17.
88	S	4.46	171.	266?	S	0.31	12.
89	S	0.57	22.	270?	S	0.29	11.
90	S	0.39	15.	272?	S	0.23	9.
91	S	0.44	17.	273?	S	0.26	10.
92	S	2.84	109.	278?	S	0.26	10.
93	S	4.04	155.	283?	S	0.42	16.
94	S	10.52	403.	289?	S	0.26	10.
95	S	100.00	3832.	297?	S	0.26	10.

RIC
11/13/93 7:01:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

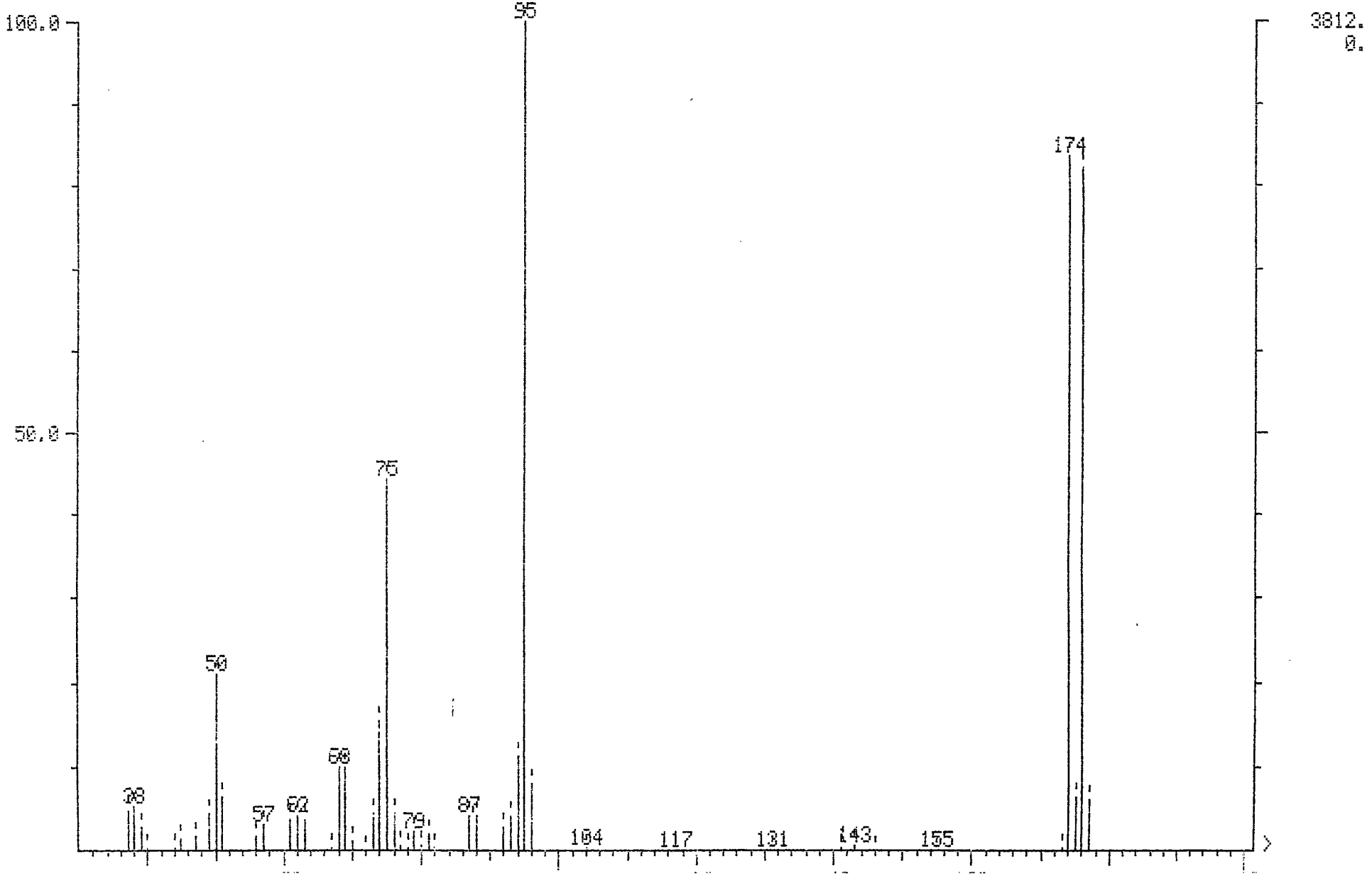
DATA: BFB11132 #1029 SCANS 1015 TO 1050
CALI: CALTAB #3



MASS SPECTRUM
11/13/93 10:34:00 + 3:12
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 130 DEG. C
#191 TO #193 AVERAGED - #180

DATA: BFB111321 #192
CALI: CALTAB #3

BASE M/Z: 95
RIC: 18048.

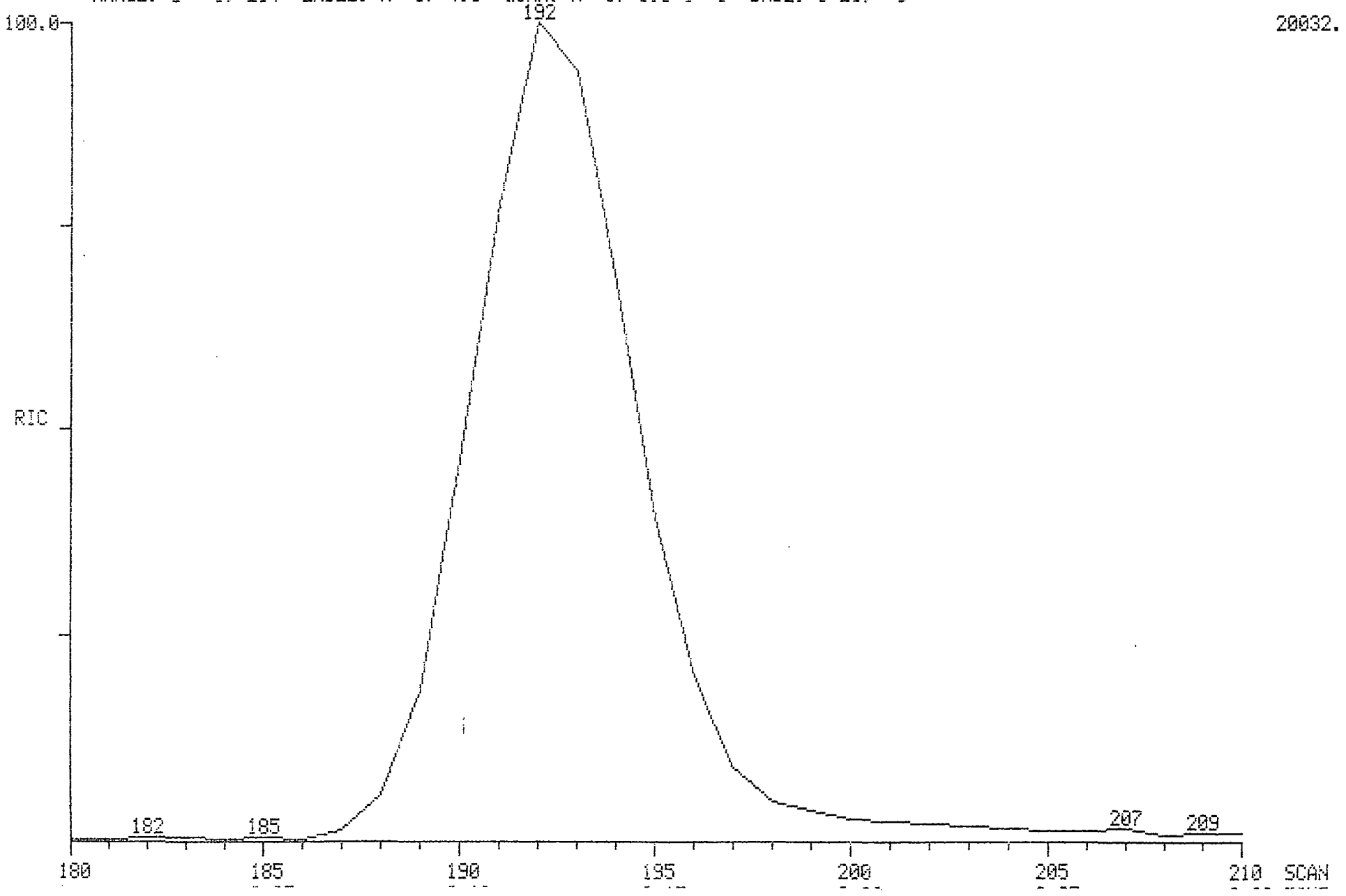


ass List Data: BFB1113Z1 # 192 Base m/z: 95
1/13/93 10:34:00 + 3:12 Cali: CALTAB # 3 RIC: 18048.
ample: BFB TUNE
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#191 to #193 averaged - #180

37	0.00	0.	Minima	Min Inten:	0.
255			Maxima	# 0	

Mass		% RA	Inten.
37?	S	4.56	174.
38?	S	5.17	197.
39?	S	2.78	106.
40?	S	0.34	13.
44?	S	0.29	11.
45?	S	1.26	48.
47?	S	1.52	58.
49?	S	4.46	170.
50?	S	21.07	803.
51?	S	6.45	246.
56?	S	1.52	58.
57?	S	2.99	114.
61?	S	3.78	144.
62?	S	4.22	161.
63?	S	3.46	132.
67?	S	0.16	6.
68?	S	10.05	383.
69	S	10.05	383.
70	S	0.97	37.
72	S	0.13	5.
73	S	4.41	168.
74	S	15.45	589.
75	S	44.28	1688.
76	S	4.38	167.
77	S	0.47	18.
78	S	0.16	6.
79	S	2.28	87.
80	S	0.52	20.
81	S	1.89	72.
82	S	0.18	7.
87	S	4.25	162.
88	S	4.01	153.
92	S	2.70	103.
93	S	4.17	159.
94	S	11.36	433.
95	S	100.00	3812.
96	S	7.95	303.
104	S	0.16	6.
117	S	0.13	5.
131	S	0.13	5.
141	S	0.34	13.
143	S	0.66	25.
146	S	0.13	5.
155	S	0.13	5.
173	S	0.18	7.
174	S	83.63	3188.
175	S	6.35	242.
176	S	82.27	3136.
177	S	6.09	232.
255	S	0.16	6.

RIC DATA: BFB1113Z1 #191 SCANS 180 TO 210
11/13/93 10:34:00 CALI: CALTAB #3
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1, 284 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

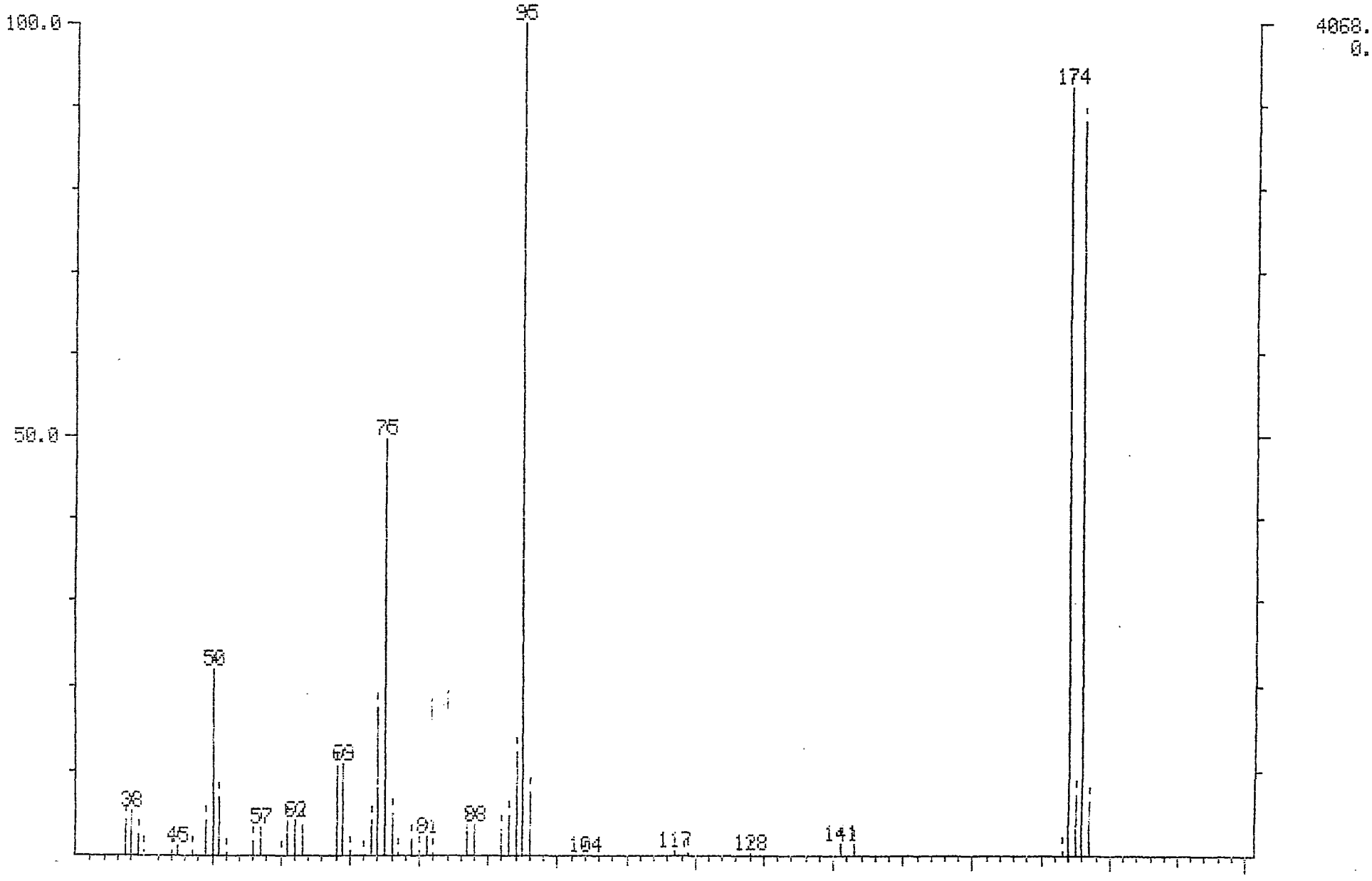


MASS SPECTRUM
11/24/93 8:47:00 + 17:12
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#1031 TO #1033 AVERAGED - #1019

DATA: BFB1124Z #1032
CALI: CALTAB #3

BASE M/Z: 95
RIC: 20416.

342



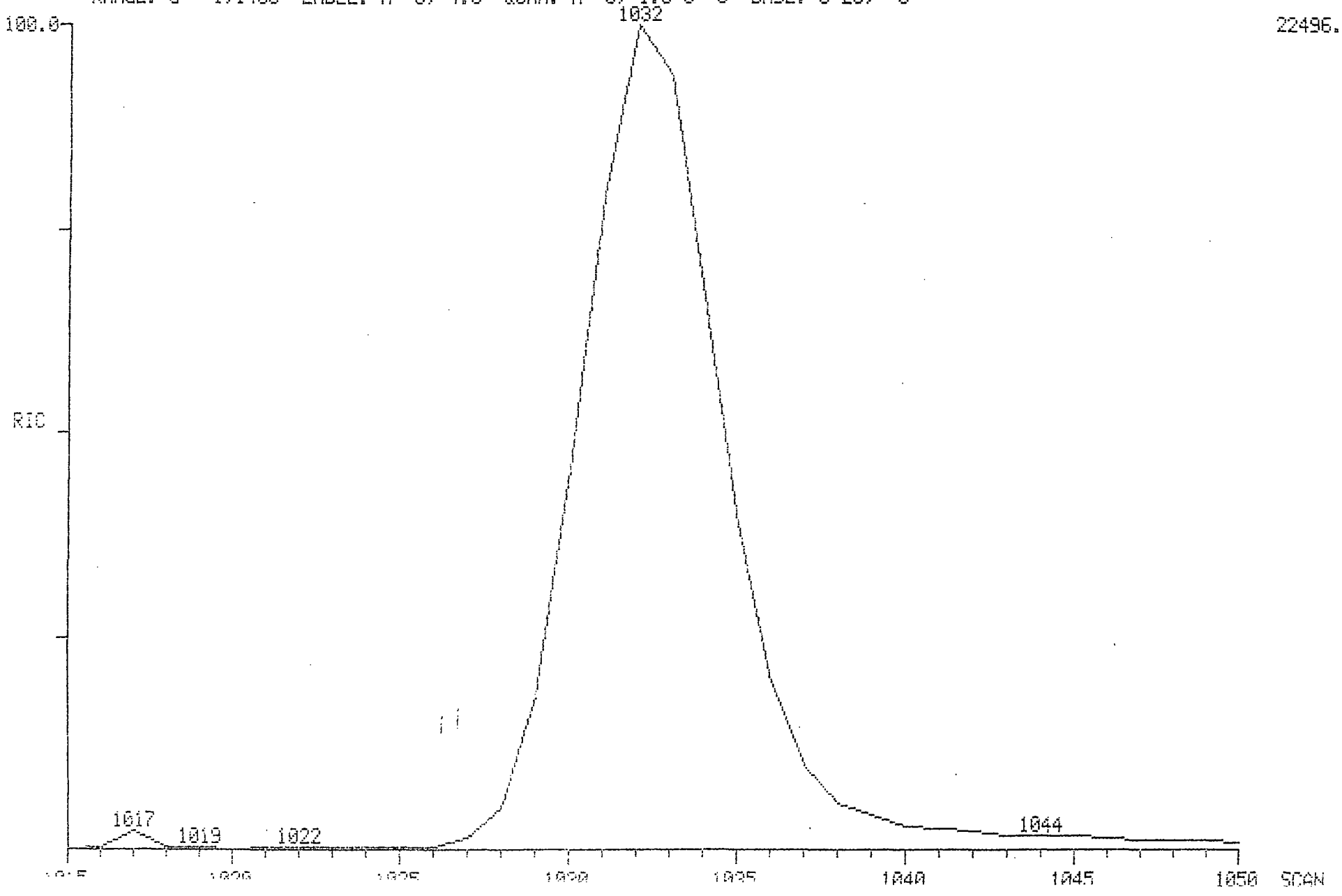
ss List Data: BFB1124Z #1032 Base m/z: 95
/24/93 8:47:00 + 17:12 Cali: CALTAB # 3 RIC: 20416.
mple: BFB TUNE
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
1031 to #1033 averaged - #1019

37 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

ass		% RA	Inten.
37?	S	4.13	168.
38?	S	5.16	210.
39?	S	2.58	105.
40?	S	0.59	24.
44?	S	0.64	26.
45?	S	1.20	49.
47?	S	0.61	25.
49?	S	4.08	166.
50?	S	21.90	891.
51?	S	7.03	286.
52?	S	0.27	11.
56?	S	1.65	67.
57?	S	3.24	132.
60?	S	0.12	5.
61?	S	4.11	167.
62?	S	4.11	167.
63?	S	3.71	151.
68?	S	10.59	431.
69	S	10.77	438.
70	S	0.64	26.
72	S	0.12	5.
73	S	4.11	167.
74	S	17.48	711.
75	S	49.61	2018.
76	S	4.87	198.
77	S	0.25	10.
79	S	1.99	81.
80	S	0.49	20.
81	S	2.31	94.
82	S	0.20	8.
87	S	3.56	145.
88	S	3.66	149.
92	S	3.02	123.
93	S	4.77	194.
94	S	12.12	493.
95	S	100.00	4068.
96	S	7.57	308.
104	S	0.12	5.
117	S	0.64	26.
119	S	0.39	16.
128	S	0.17	7.
141	S	1.35	55.
143	S	1.28	52.
173	S	0.47	19.
174	S	92.33	3756.
175	S	7.25	295.
176	S	88.20	3588.
177	S	6.42	261.

RIC
11/24/93 8:47:00
SAMPLE: BFB TUNE
CONDS.: (/8F(50 F 3-> 2250 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB1124Z #1031 SCANS 1015 TO 1050
CALI: CALTAB #3

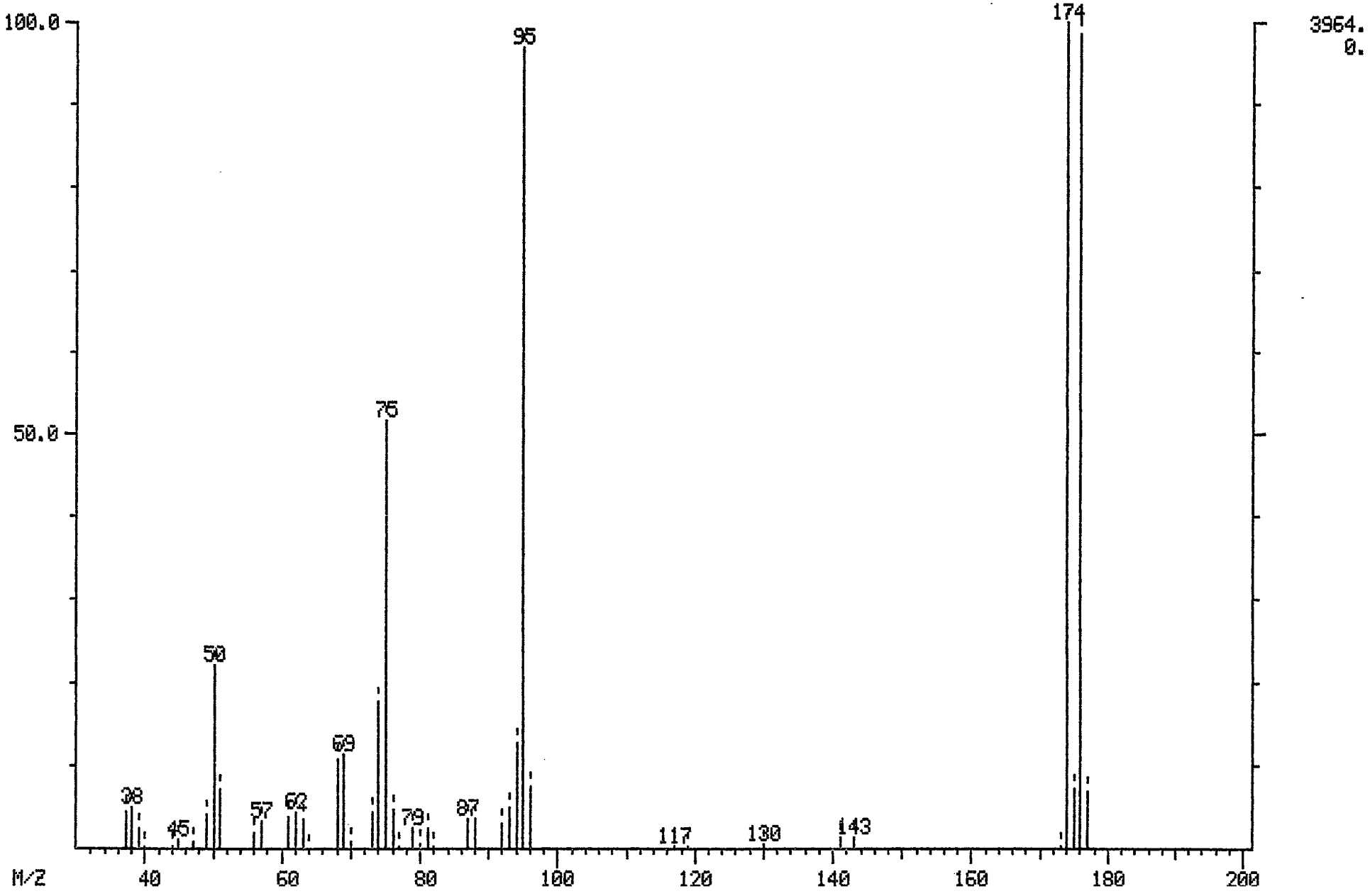


MASS SPECTRUM
11/28/93 11:01:00 + 17:13
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#1032 TO #1034 AVERAGED - #1016

DATA: BFB1128Z #1033
CALI: CALTAB #3

BASE M/Z: 174
RIC: 20672.

3A5



Mass List Data: BFB1128Z #1033 Base m/z: 174
11/28/93 11:01:00 + 17:13 Cali: CALTAB # 3 RIC: 20672.
Sample: BFB TUNE
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#1032 to #1034 averaged - #1016

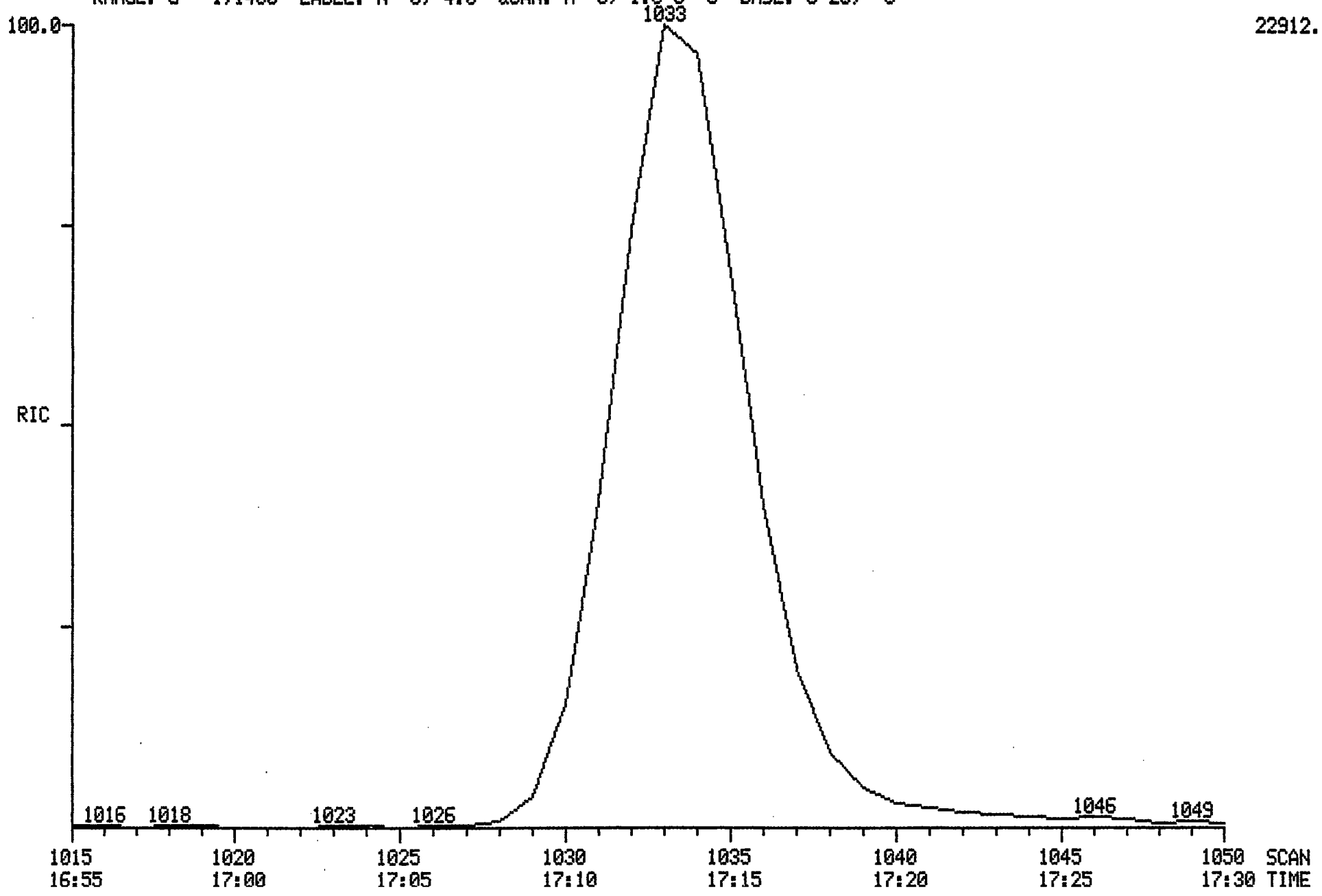
37	0.00	0.	Minima	Min Inten: 0.
177			Maxima	# 0 100% RA m/z 95

Mass		% RA	Inten.
37?	S	4.48	172.
38?	S	5.18	199.
39?	S	2.58	99.
40?	S	0.29	11.
44?	S	0.34	13.
45?	S	1.15	44.
47?	S	0.78	30.
49?	S	4.27	164.
50?	S	22.94	881.
51?	S	7.29	280.
56?	S	1.87	72.
57?	S	3.49	134.
61?	S	3.96	152.
62?	S	4.58	176.
63?	S	3.72	143.
64?	S	0.13	5.
68?	S	11.04	424.
69	S	11.77	452.
70	S	0.91	35.
73	S	4.58	176.
74	S	18.23	700.
75	S	53.28	2046.
76	S	4.92	189.
77	S	0.34	13.
79	S	2.71	104.
80	S	0.65	25.
81	S	2.45	94.
82	S	0.31	12.
87	S	3.75	144.
88	S	3.62	139.
92	S	3.20	123.
93	S	5.05	194.
94	S	13.15	505.
95	S	100.00	3840.
96	S	7.76	298.
117	S	0.18	7.
119	S	0.16	6.
130	S	0.44	17.
141	S	1.35	52.
143	S	1.46	56.
173	S	0.18	7.
174	S	103.23	3964.
175	S	7.40	284.
176	S	101.67	3904.
177	S	7.21	277.

RIC
11/28/93 11:01:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB1128Z #1032 SCANS 1015 TO 1050
CALI: CALTAB #3

347

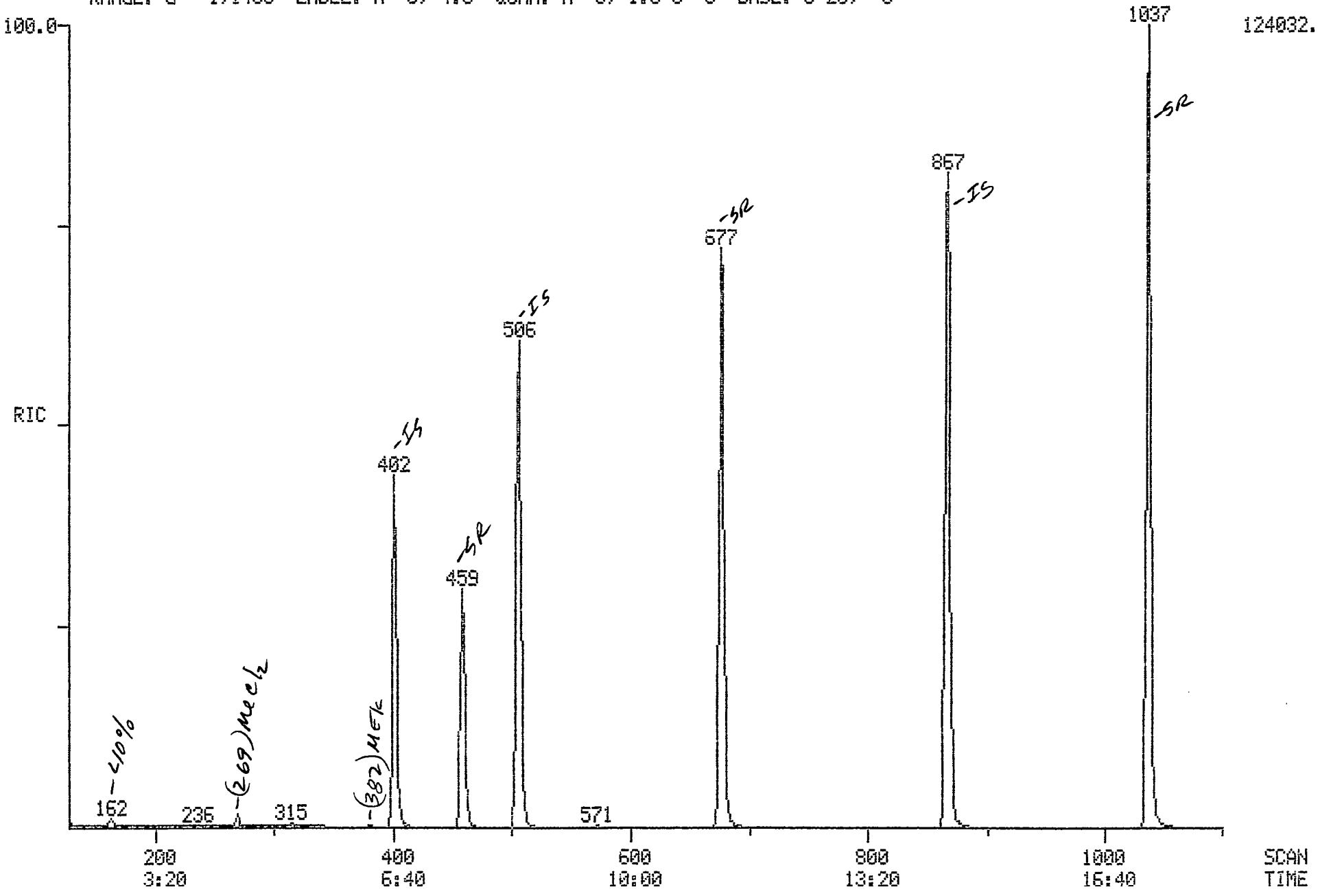


RIC
11/11/93 14:47:00
SAMPLE: VBLKKZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VSB1111Z #1
CALI: VSB1111Z #3

SCANS 125 TO 1100

350



Quantitation Report File: VSB1111Z

Data: VSB1111Z.TI
11/11/93 14:47:00
Sample: VBLKKZ
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

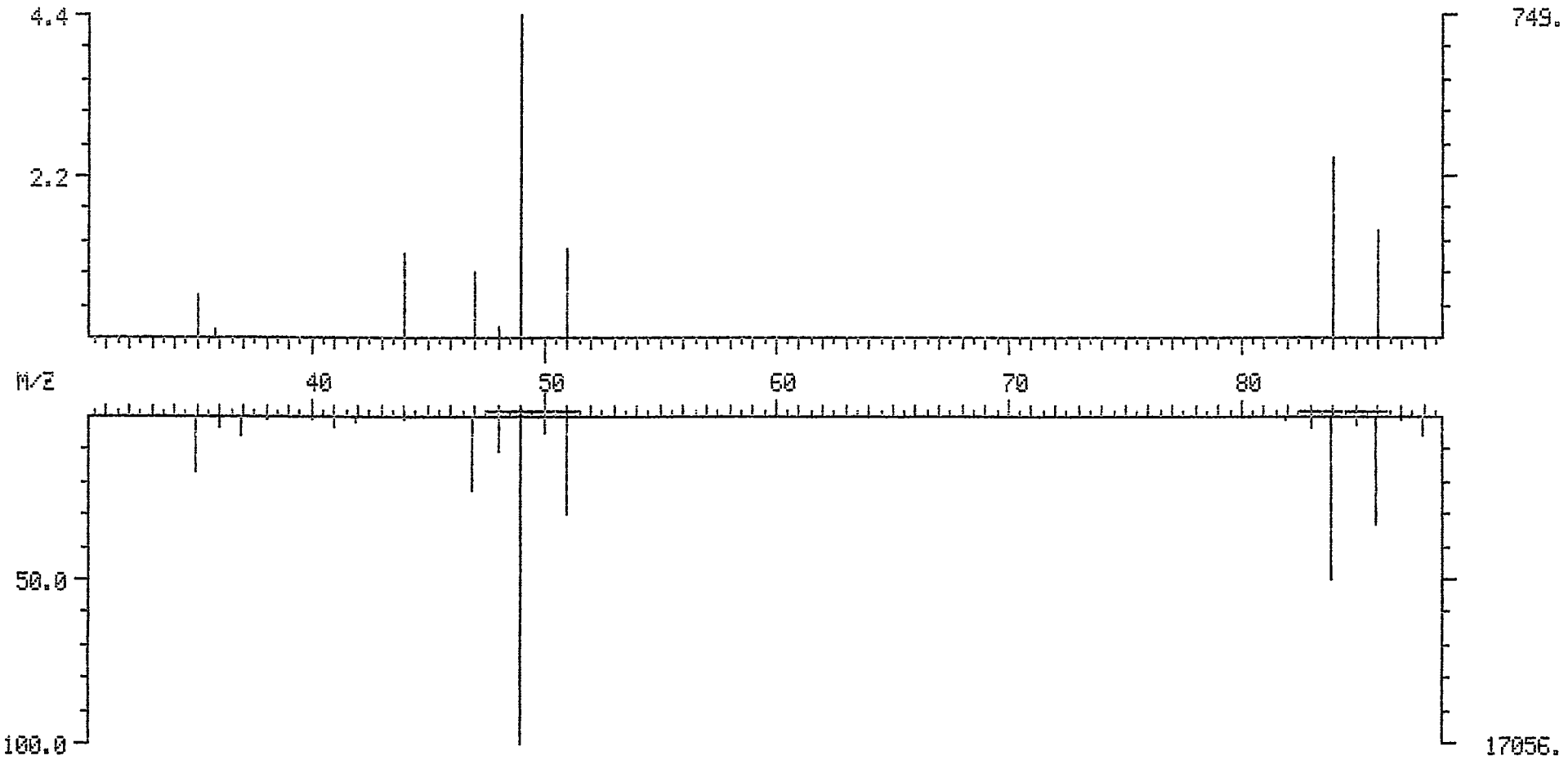
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE
8	C110 2-BUTANONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	29050.	50.000	NG/ML	16.94
2	114	506	8:26	2	1.000	A BB	142357.	50.000	NG/ML	16.94
3	117	867	14:27	3	1.000	A BB	139817.	50.000	NG/ML	16.94
4	65	459	7:39	1	1.142	A BB	63295.	45.769	NG/ML	15.51
5	98	677	11:17	3	0.781	A BB	143084.	49.725	NG/ML	16.85
6	95	1037	17:17	3	1.196	A BB	110218.	45.193	NG/UL	15.31
7	84	269	4:29	1	0.669	A BB	1319.	1.443	NG/ML	0.49
8	43	382	6:22	1	0.950	A BB	1479.	3.036	NG/ML	1.03

DUAL MASS SPECTRUM
11/11/93 14:47:00 + 4:29
SECOND SPECTRUM
SAMPLE: VBLKKZ
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: VSB1111Z #269
CALI: VSB1111Z #3
DATA: 50VZ1111Z #270

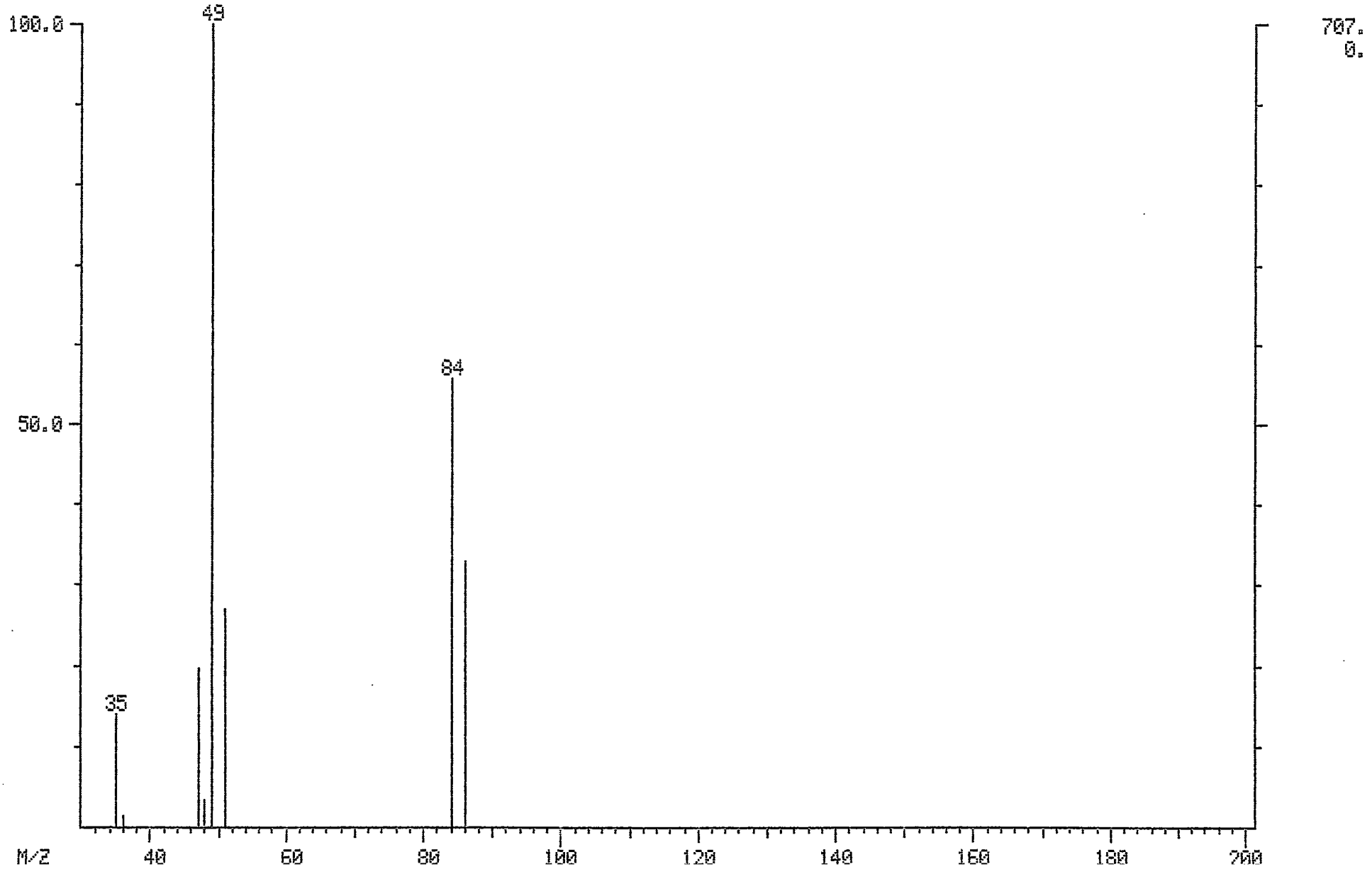
BASE M/Z: 49/ 49
RIC: 2112./ 50560.



MASS SPECTRUM
11/11/93 14:47:00 + 4:29
SAMPLE: VBLKKZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: VSB1111Z #269
CALI: VSB1111Z #3

BASE M/Z: 49
RIC: 1800.

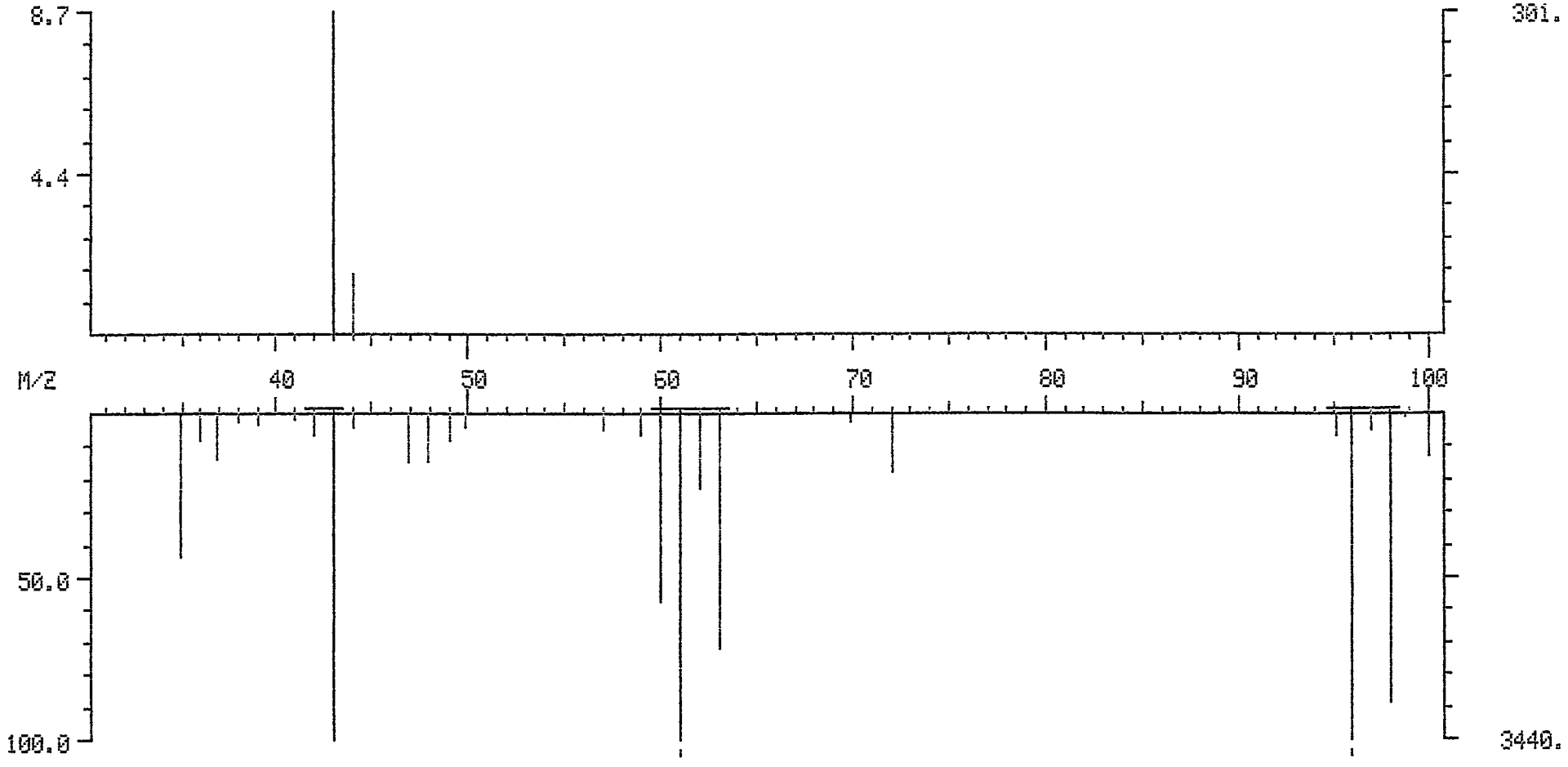


DUAL MASS SPECTRUM
11/11/93 14:47:00 + 6:22
SECOND SPECTRUM
SAMPLE: VBLKKZ
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 64 DEG. C
NAME: C110 2-BUTANONE

DATA: VSB1111Z #382
CALI: VSB1111Z #3
DATA: 50VZ1111Z #382

BASE M/Z: 43/ 61
RIC: 357./ 30528.

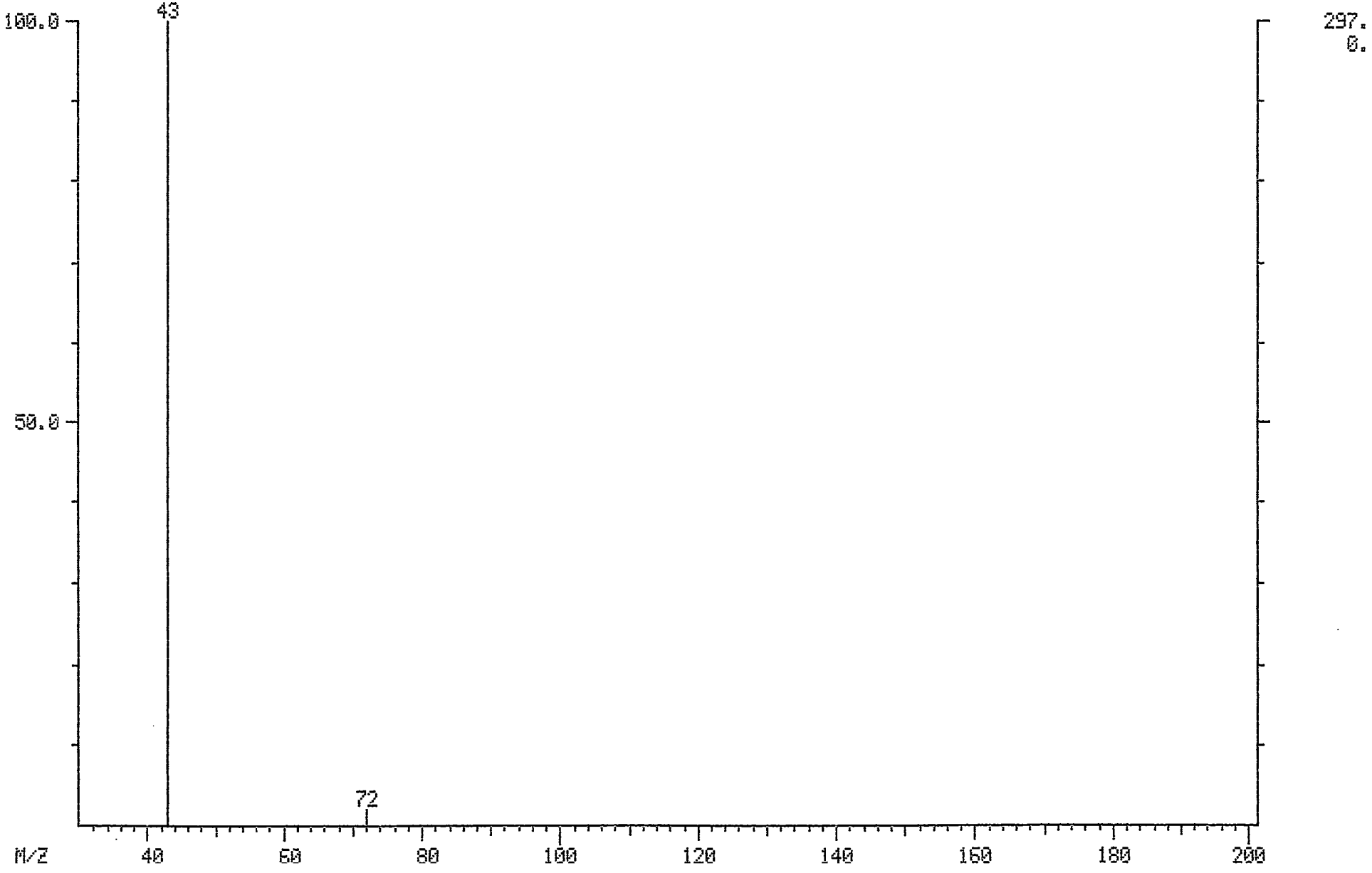
354



MASS SPECTRUM
11/11/93 14:47:00 + 6:22
SAMPLE: VBLKKZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: VSB1111Z #382
CALI: VSB1111Z #3

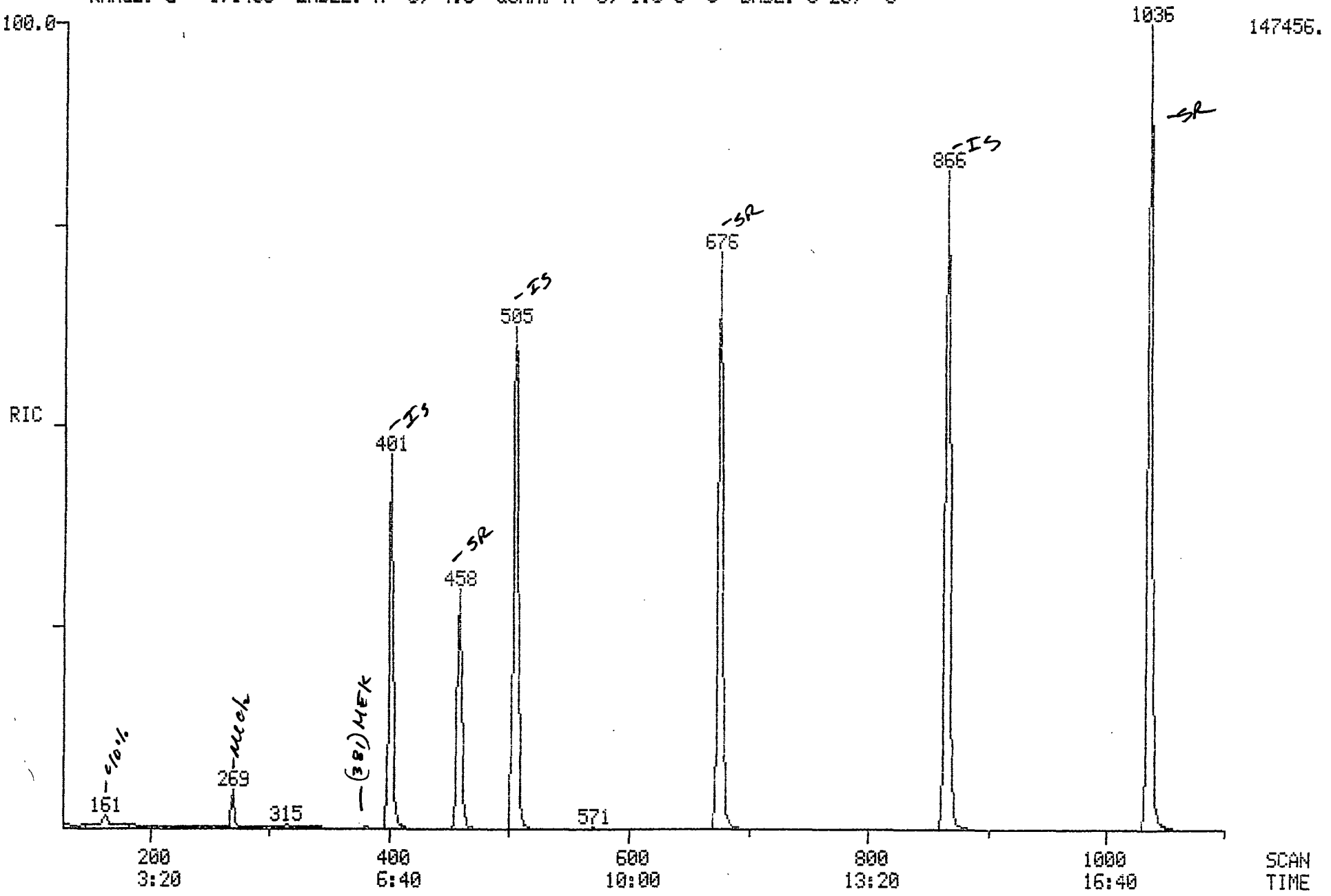
BASE M/Z: 43
RIC: 303.



RIC
11/12/93 10:22:00
SAMPLE: VBLKLZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VSB1112Z #1
CALI: VSB1112Z #3

SCANS 125 TO 1100



358

Quantitation Report File: VSB1112Z

Data: VSB1112Z.TI
11/12/93 10:22:00
Sample: VBLKLZ
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

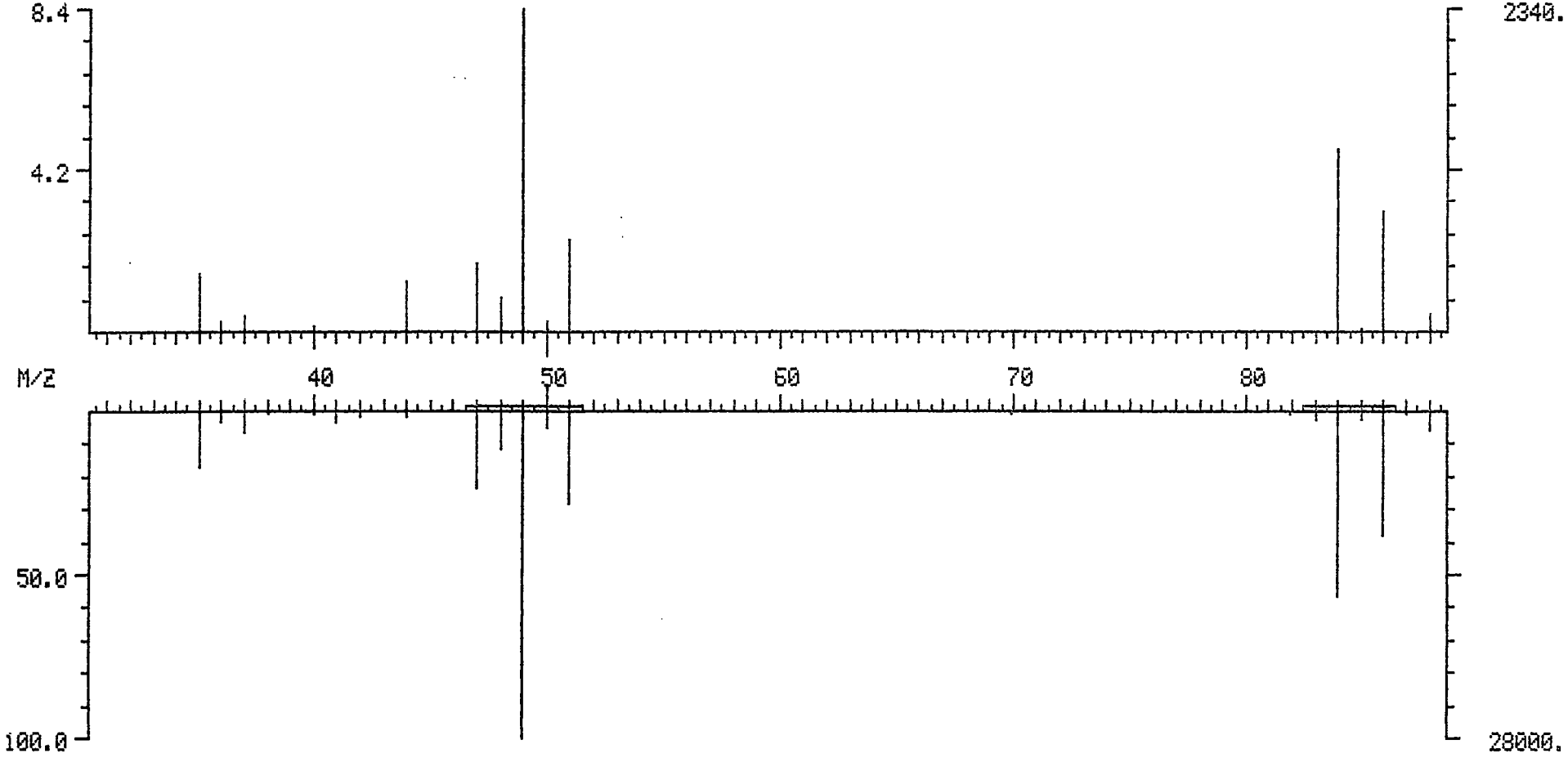
X1

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C110 2-BUTANONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	37386.	50.000	NG/ML	16.52
2	114	505	8:25	2	1.000	A BB	179488.	50.000	NG/ML	16.52
3	117	865	14:25	3	1.000	A BB	169631.	50.000	NG/ML	16.52
4	65	458	7:38	1	1.142	A BB	74996.	48.573	NG/ML	16.05
5	98	676	11:16	3	0.782	A BB	171668.	50.427	NG/ML	16.66
6	95	1036	17:16	3	1.198	A BB	129374.	47.645	NG/UL	15.74
7	84	269	4:29	1	0.671	A BB	4361.	3.575	NG/ML	1.18
8	43	381	6:21	1	0.950	A BB	1213.	2.420	NG/ML	0.80

DUAL MASS SPECTRUM
11/12/93 10:22:00 + 4:29
SECOND SPECTRUM
SAMPLE: VBLKLZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

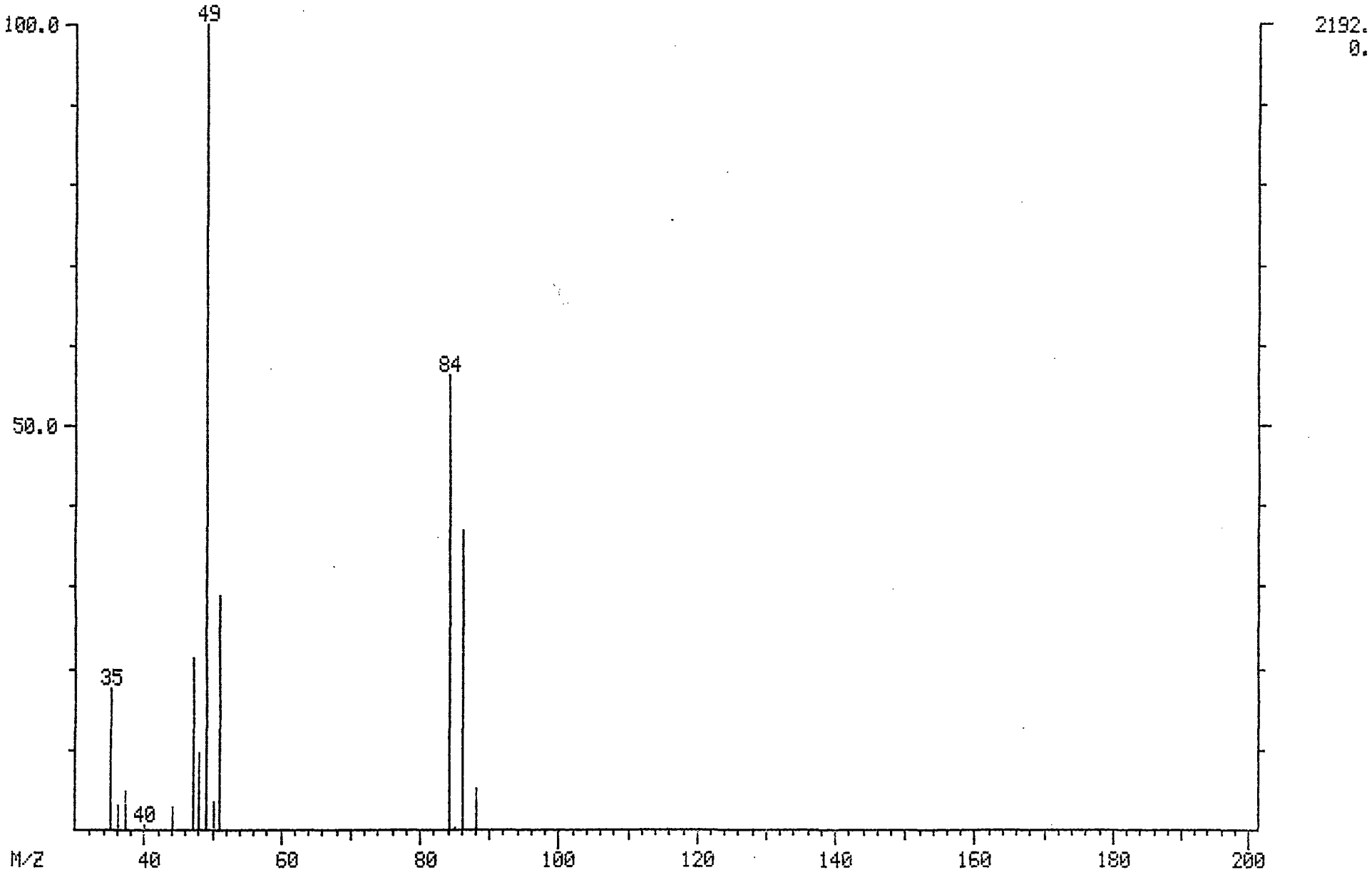
DATA: VSB1112Z #269 BASE M/Z: 49/ 49
CALI: VSB1112Z #3 RIC: 7112./ 86400.
DATA: 50VZ1112 #269



MASS SPECTRUM
11/12/93 10:22:00 + 4:29
SAMPLE: VBLKLZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: VSB1112Z #269
CALI: VSB1112Z #3

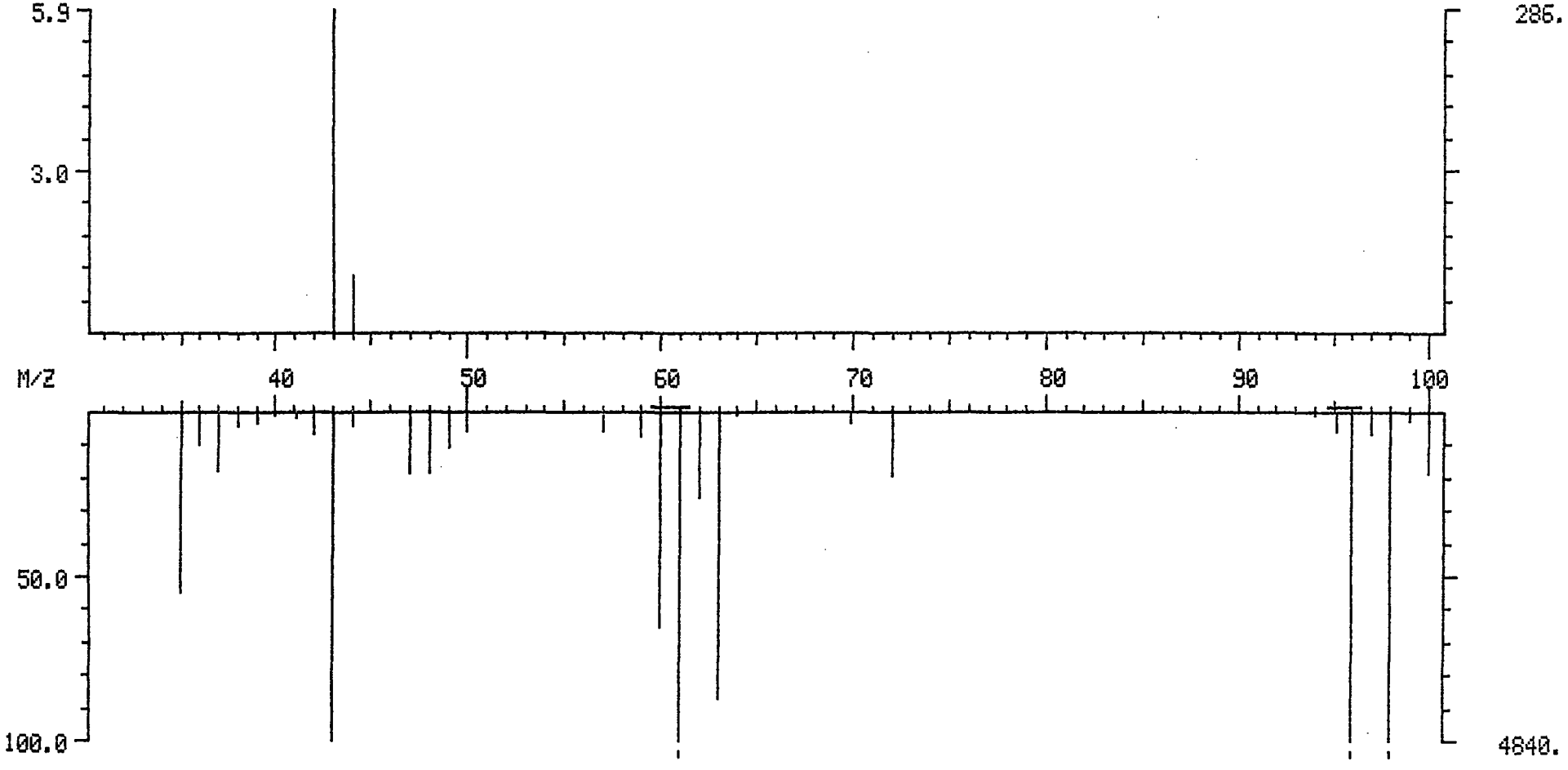
BASE M/Z: 49
RIC: 6376.



DUAL MASS SPECTRUM
11/12/93 10:22:00 + 6:21
SECOND SPECTRUM
SAMPLE: VBLKLZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
NAME: C110 2-BUTANONE

DATA: VSB1112Z #381
CALI: VSB1112Z #3
DATA: 50VZ1112 #381

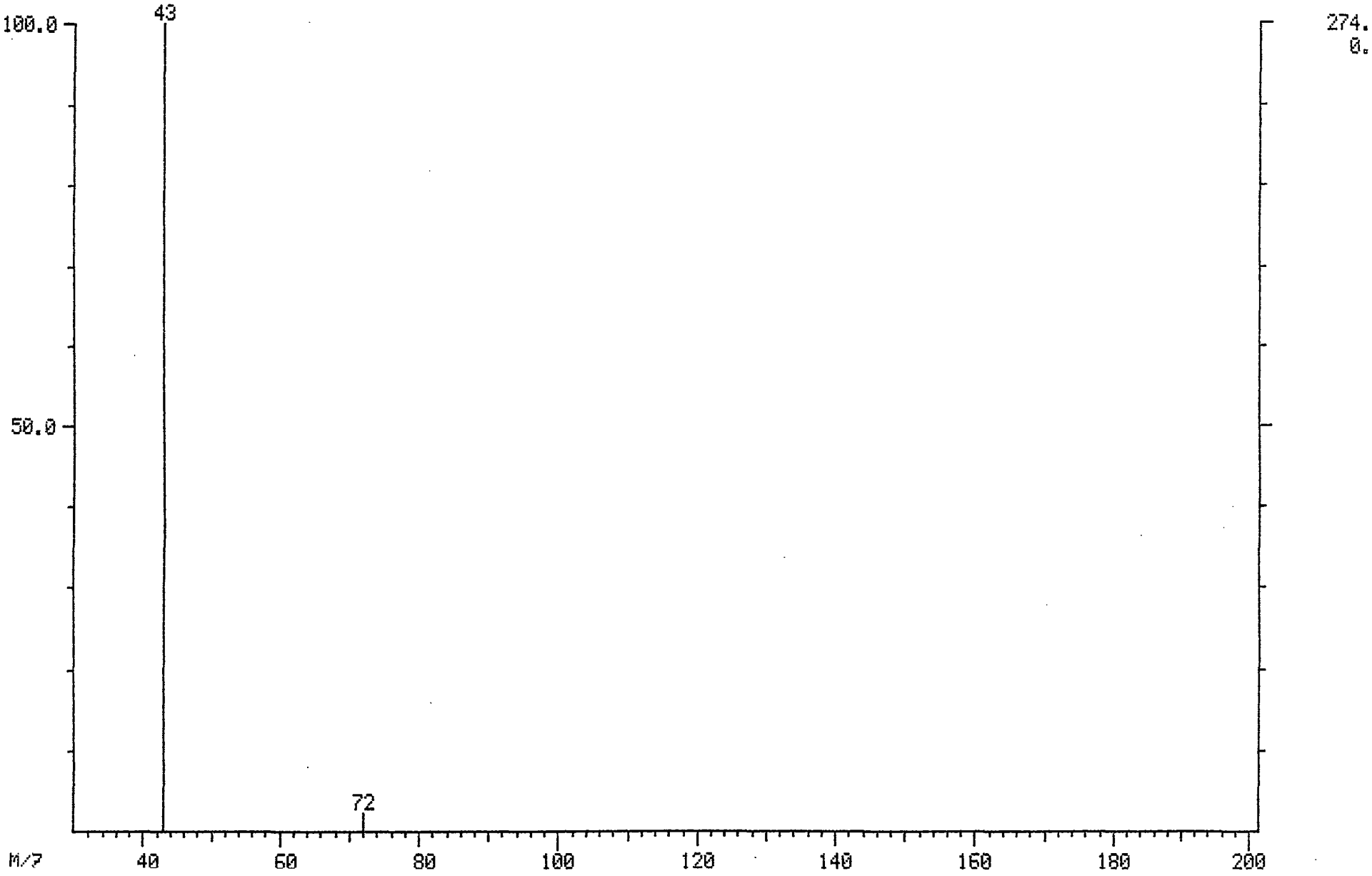
BASE M/Z: 43/ 61
RIC: 337./ 51840.



MASS SPECTRUM
11/12/93 10:22:00 + 6:21
SAMPLE: VBLKLZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: VSB1112Z #381
CALI: VSB1112Z #3

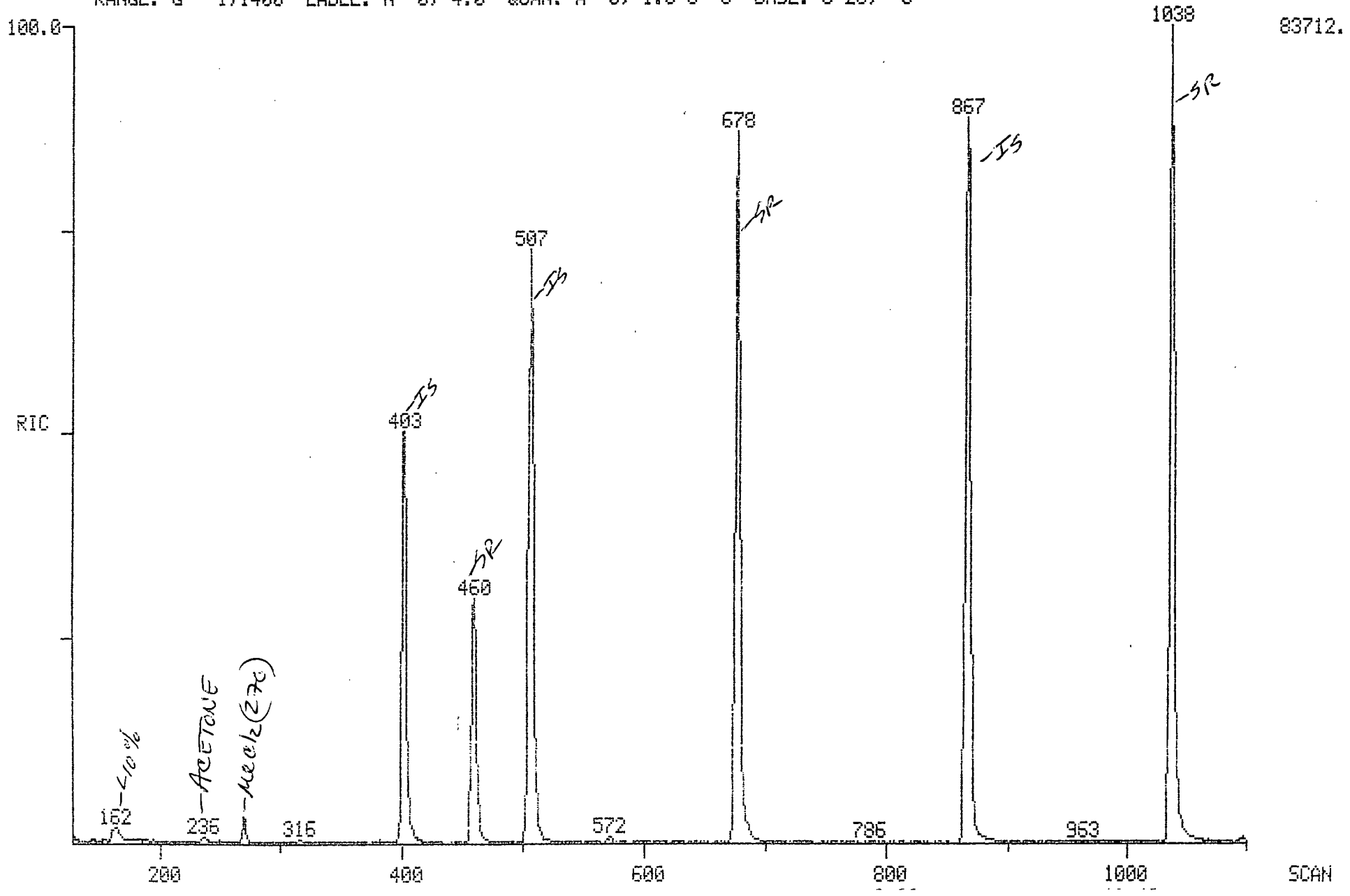
BASE M/Z: 43
RIC: 280.



RIC
11/13/93 11:47:00
SAMPLE: VBLKMZ
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VWB1113Z #1
CALI: VWB1113Z #3

SCANS 125 TO 1100



Quantitation Report File: VWB1113Z

Data: VWB1113Z.TI
1/13/93 11:47:00
Sample: VBLKMZ
Cmds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

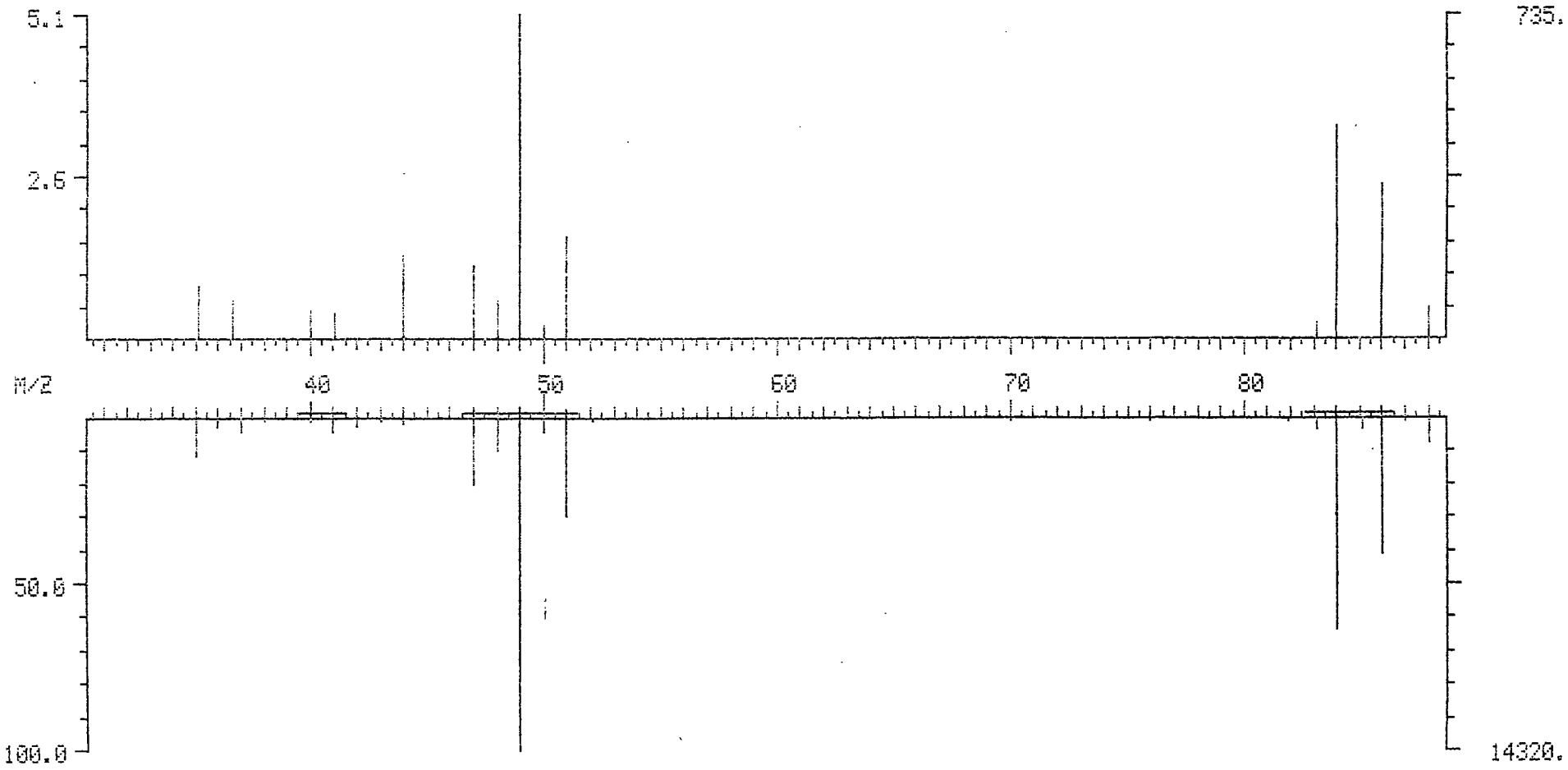
X1

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C035 ACETONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	25634.	50.000	NG/ML	15.65
2	114	507	8:27	2	1.000	A BB	125296.	50.000	NG/ML	15.65
3	117	867	14:27	3	1.000	A BB	109997.	50.000	NG/ML	15.65
4	65	460	7:40	1	1.144	A BB	38714.	52.182	NG/ML	16.33
5	98	678	11:18	3	0.782	A BB	124256.	53.636	NG/ML	16.78
6	95	1038	17:18	3	1.197	A BB	85243.	50.742	NG/UL	15.88
7	84	270	4:30	1	0.672	A BB	1722.	2.437	NG/ML	0.76
8	43	236	3:56	1	0.587	A BB	1444.	10.554	NG/ML	3.30

DUAL MASS SPECTRUM
11/13/93 11:47:00 + 4:30
SECOND SPECTRUM
SAMPLE: VBLKMZ
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

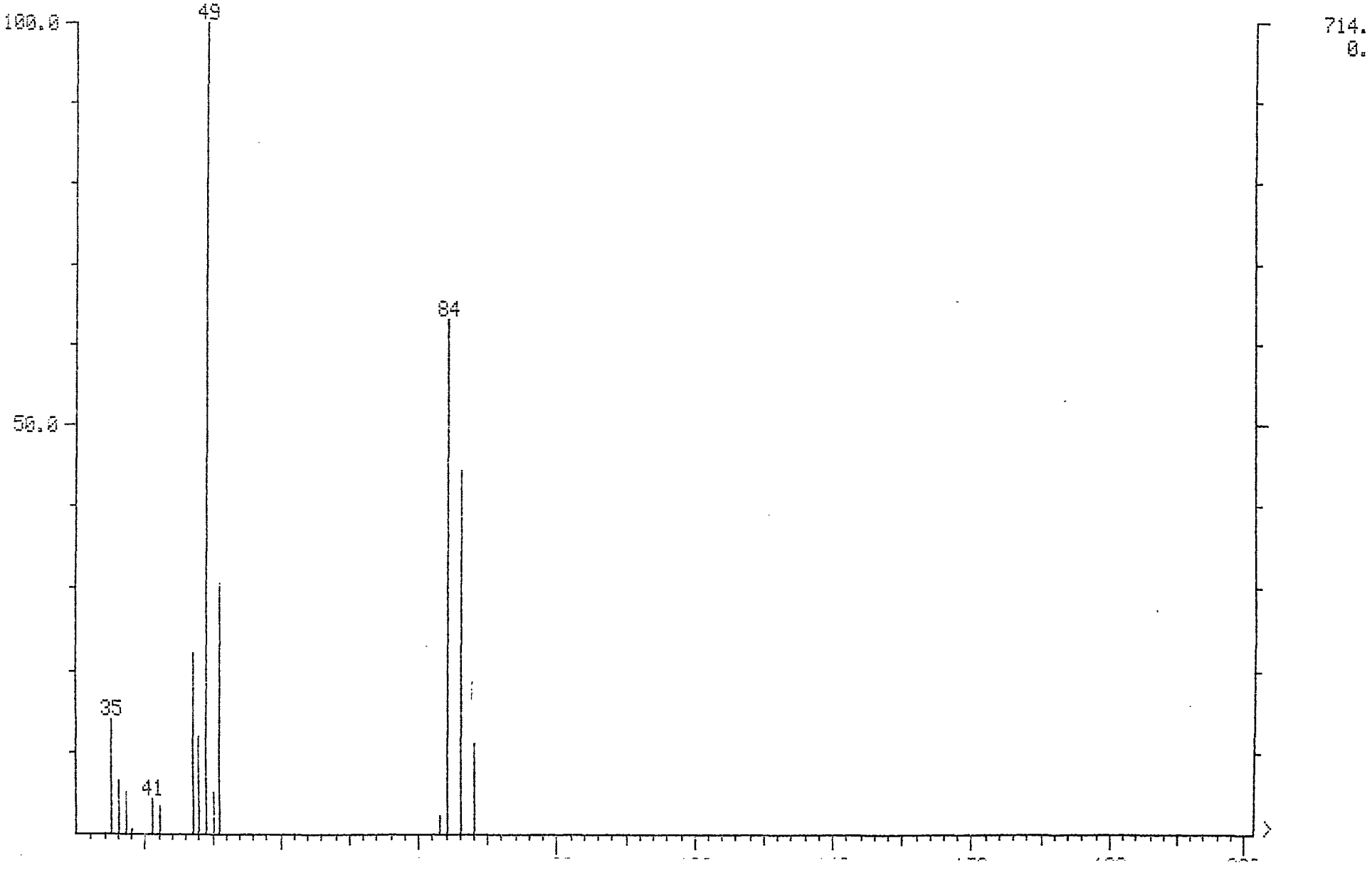
DATA: VWB1113Z #270 BASE M/Z: 49/ 49
CALI: VWB1113Z #3 RIC: 2712./ 44864.
DATA: 50VZ1113Z #270



MASS SPECTRUM
11/13/93 11:47:00 + 4:30
SAMPLE: VBLKMZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: VWB1113Z #270
CALI: VWB1113Z #3

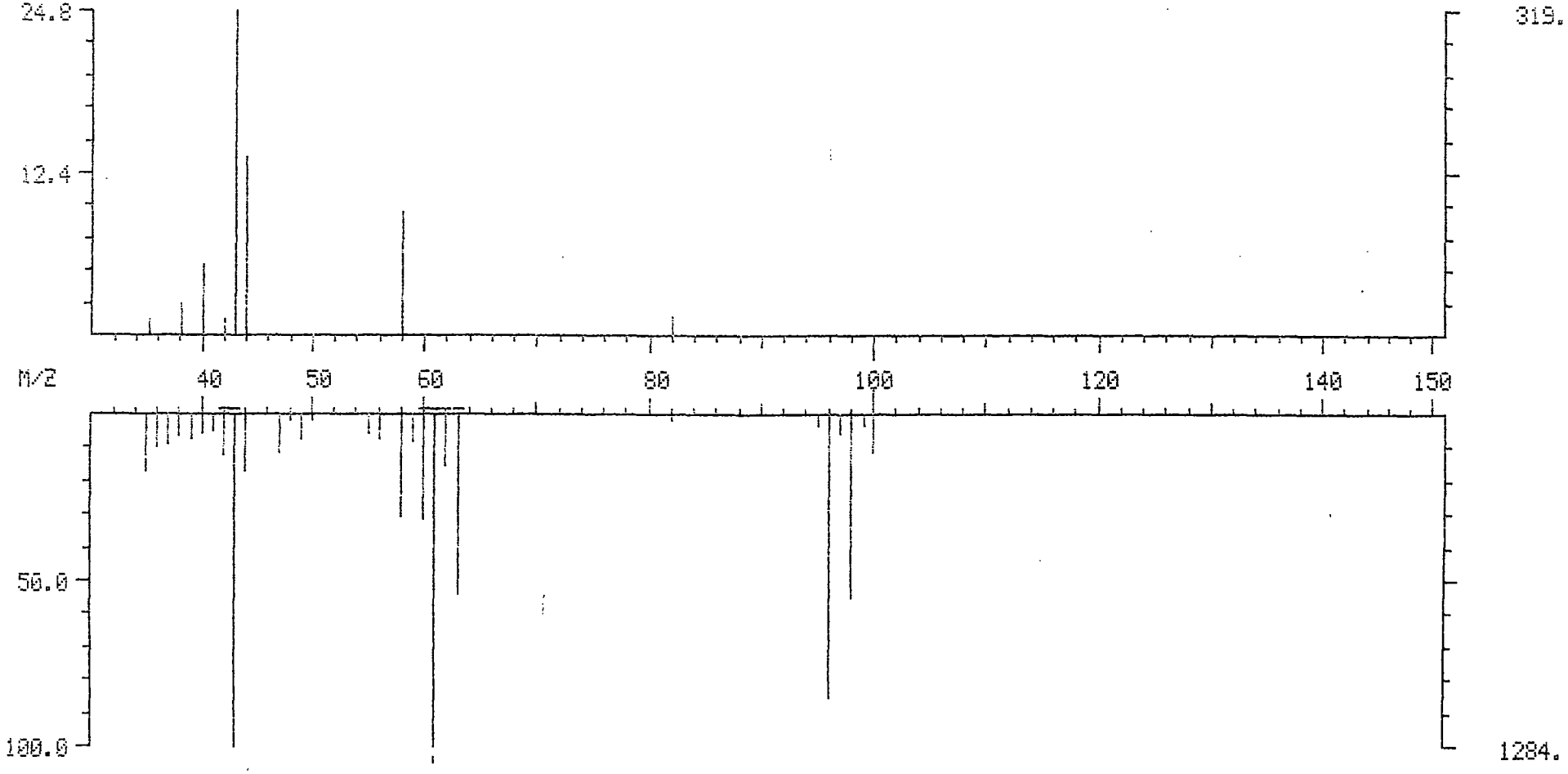
BASE M/Z: 49
RIC: 2328.



DUAL MASS SPECTRUM
11/13/93 11:47:00 + 3:56
SECOND SPECTRUM
SAMPLE: VBLKMZ
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: VWB1113Z #236 BASE M/Z: 43/ 61
CALI: VWB1113Z #3 RIC: 781./ 8864.
DATA: 50VZ1113Z #235

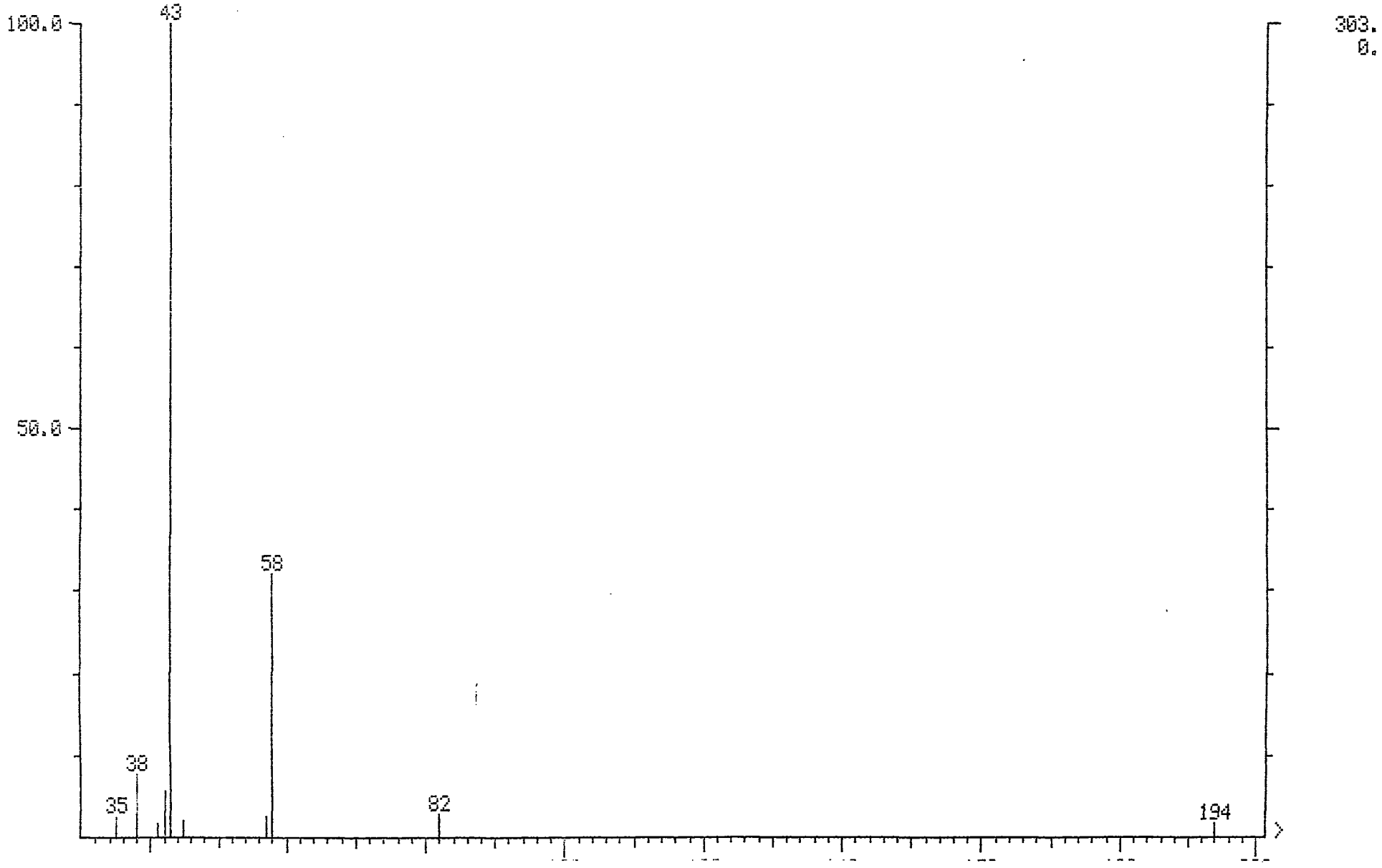
370



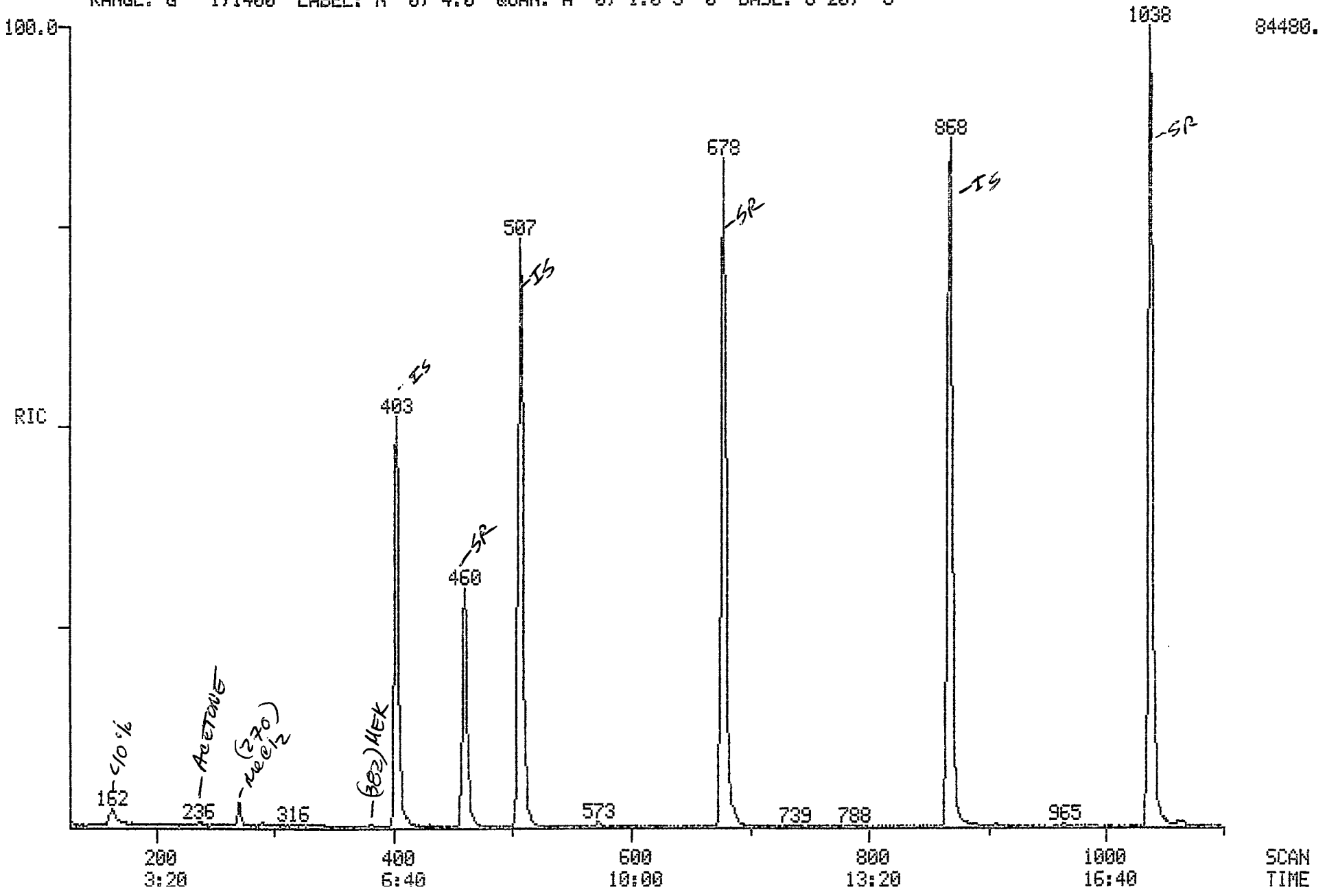
MASS SPECTRUM
11/13/93 11:47:00 + 3:56
SAMPLE: VBLKMZ
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: VWB1113Z #236
CALI: VWB1113Z #3

BASE M/Z: 43
RIC: 489.



RIC DATA: VMB1113Z #1 SCANS 125 TO 1100
11/13/93 11:15:00 CALI: VMB1113Z #3
SAMPLE: ~~MBLKMZ~~ VBLKNZ TH 11/28/93
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: VMB1113Z

Data: VMB1113Z.TI
11/13/93 11:15:00
Sample: ~~MBLKMZ~~ VBLKNZ TAM 11/28/93
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

(X1)
100 µl MeOH → 5 mls

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE
8	CO35 ACETONE
9	C110 2-BUTANONE

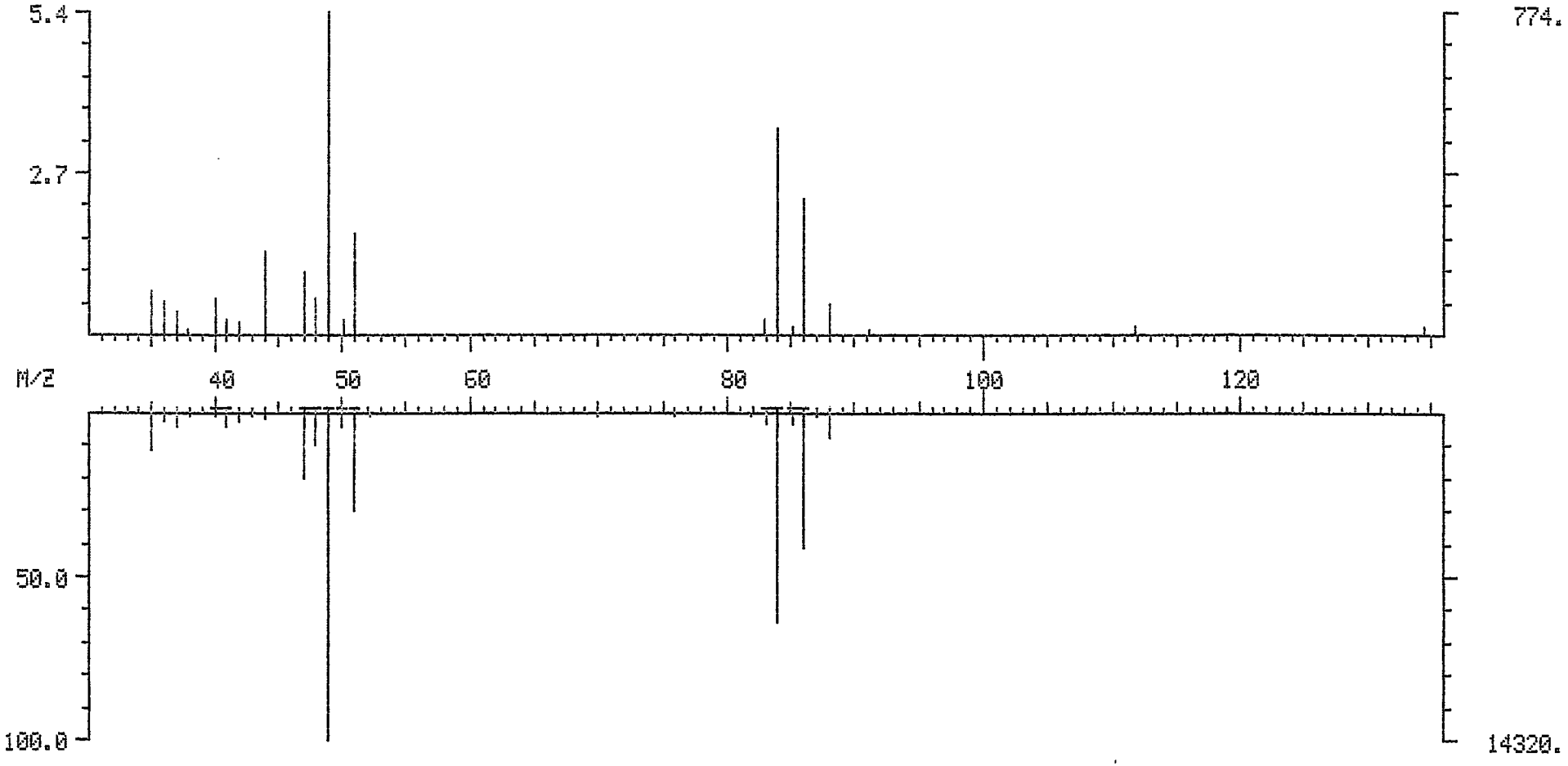
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	403	6:43	1	1.000	A BB	25354.	50.000	NG/ML	15.57
2	114	507	8:27	2	1.000	A BB	126592.	50.000	NG/ML	15.57
3	117	868	14:28	3	1.000	A BB	107675.	50.000	NG/ML	15.57
4	65	460	7:40	1	1.141	A BB	37410.	50.981	NG/ML	15.87
5	98	678	11:18	3	0.781	A BB	121861.	53.737	NG/ML	16.73
6	95	1038	17:18	3	1.196	A BB	83677.	50.884	NG/UL	15.84
7	84	270	4:30	1	0.670	A BB	1852.	2.650	NG/ML	0.82
8	43	236	3:56	1	0.586	A BB	1021.	7.548	NG/ML	2.35
9	43	382	6:22	1	0.948	A BB	1249.	5.433	NG/ML	1.69

DUAL MASS SPECTRUM
11/13/93 11:15:00 + 4:30
SECOND SPECTRUM
SAMPLE: ~~MBLKNZ~~ VBLKNZ TMM 11/28/93
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: VMB1113Z #270
CALI: VMB1113Z #3
DATA: 50VZ1113Z #270

BASE M/Z: 49/ 49
RIC: 2904./ 44864.

3.76

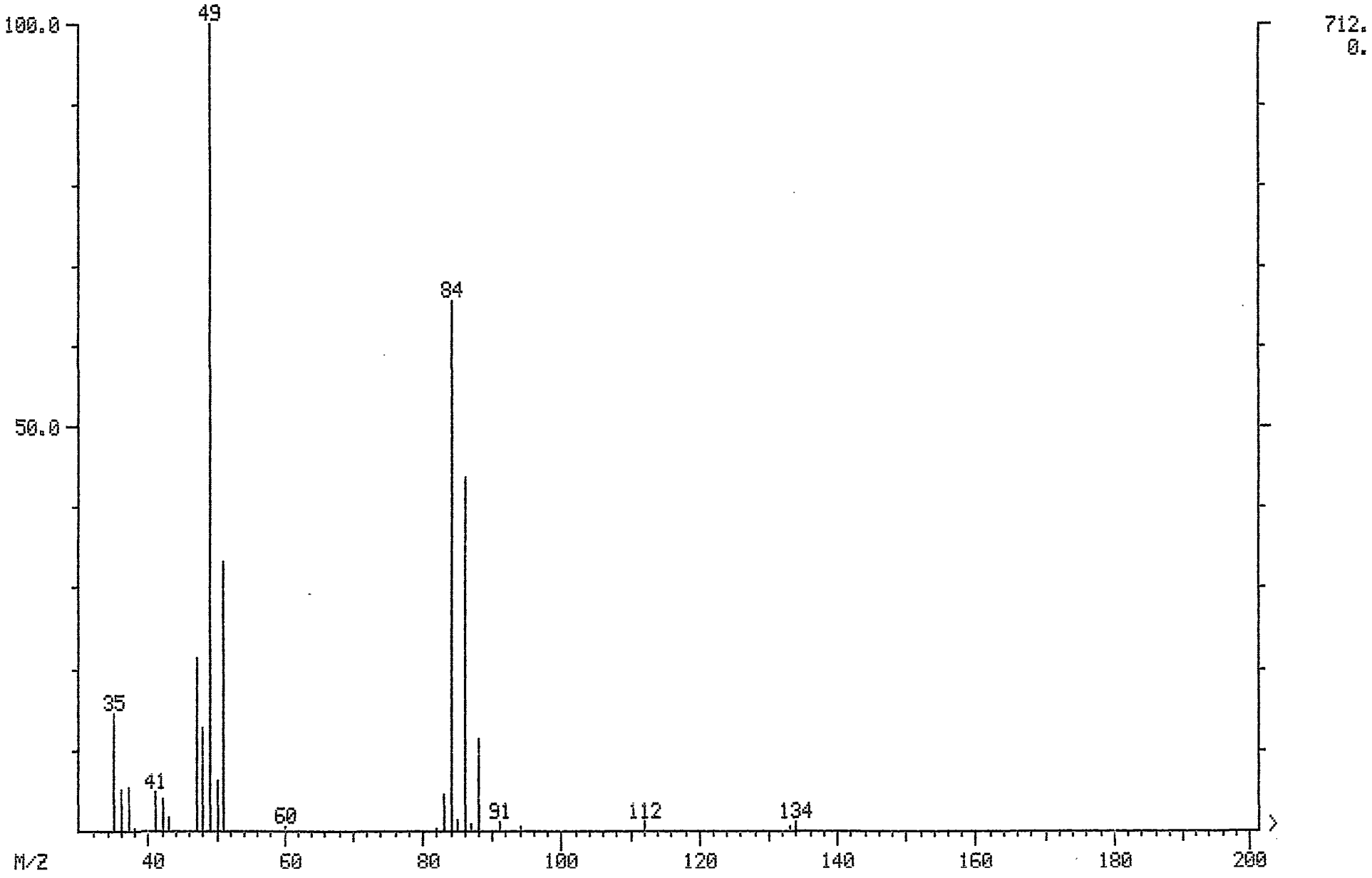


MASS SPECTRUM
11/13/93 11:15:00 + 4:30
SAMPLE: ~~MBLKMZ~~ VBLKNZ TAM 11/28/93
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: VMB1113Z #270
CALI: VMB1113Z #3

BASE M/Z: 49
RIC: 2472.

377

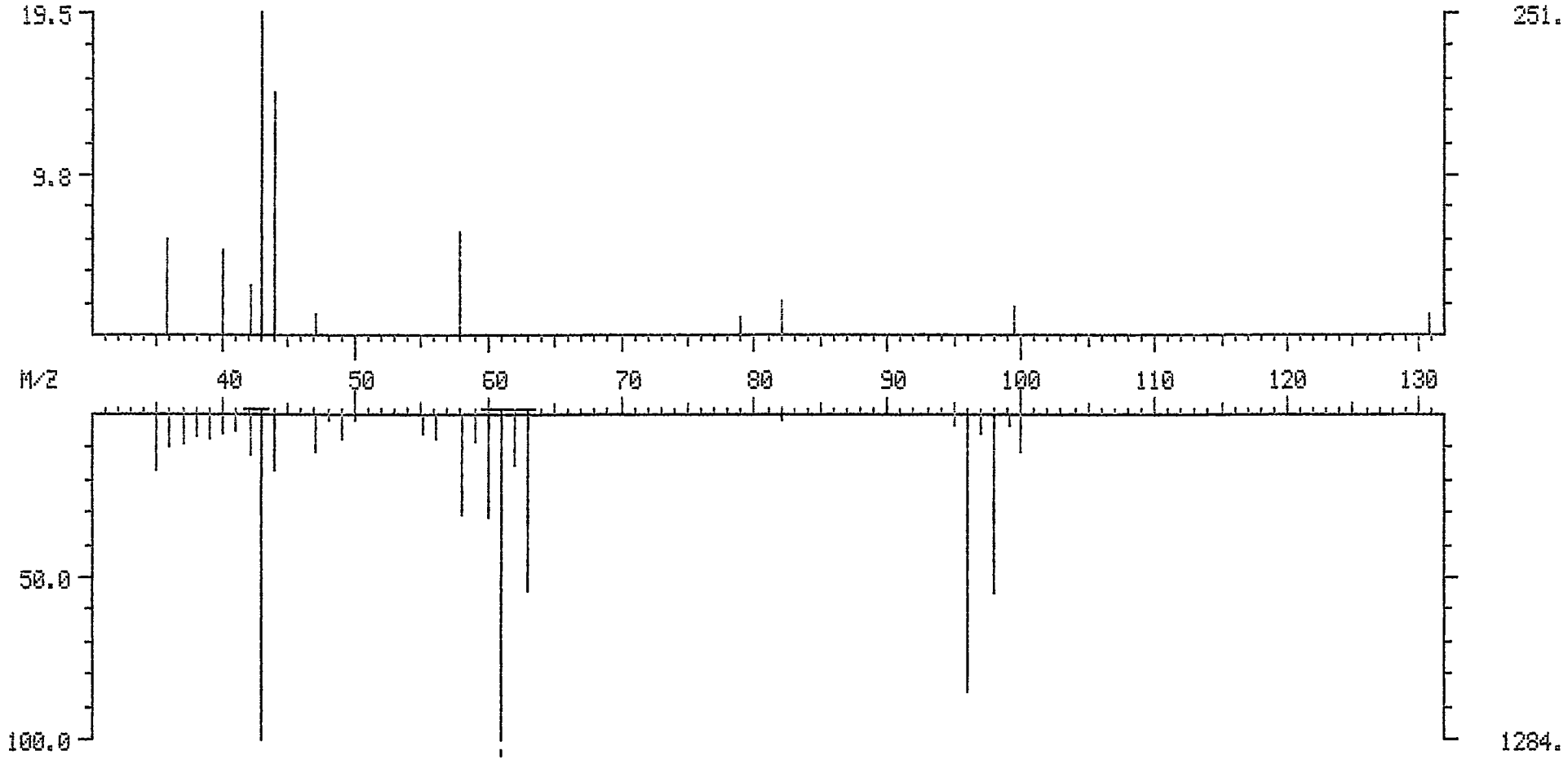


DUAL MASS SPECTRUM
11/13/93 11:15:00 + 3:56
SECOND SPECTRUM
SAMPLE: ~~MBLKMZ~~ VBLKNZ TMM 11/28/93
CONDS.: (/BF(50 F 3-> 2250 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: VMB1113Z #236
CALI: VMB1113Z #3
DATA: 50VZ1113Z #235

BASE M/Z: 43/ 61
RIC: 797./ 8864.

379

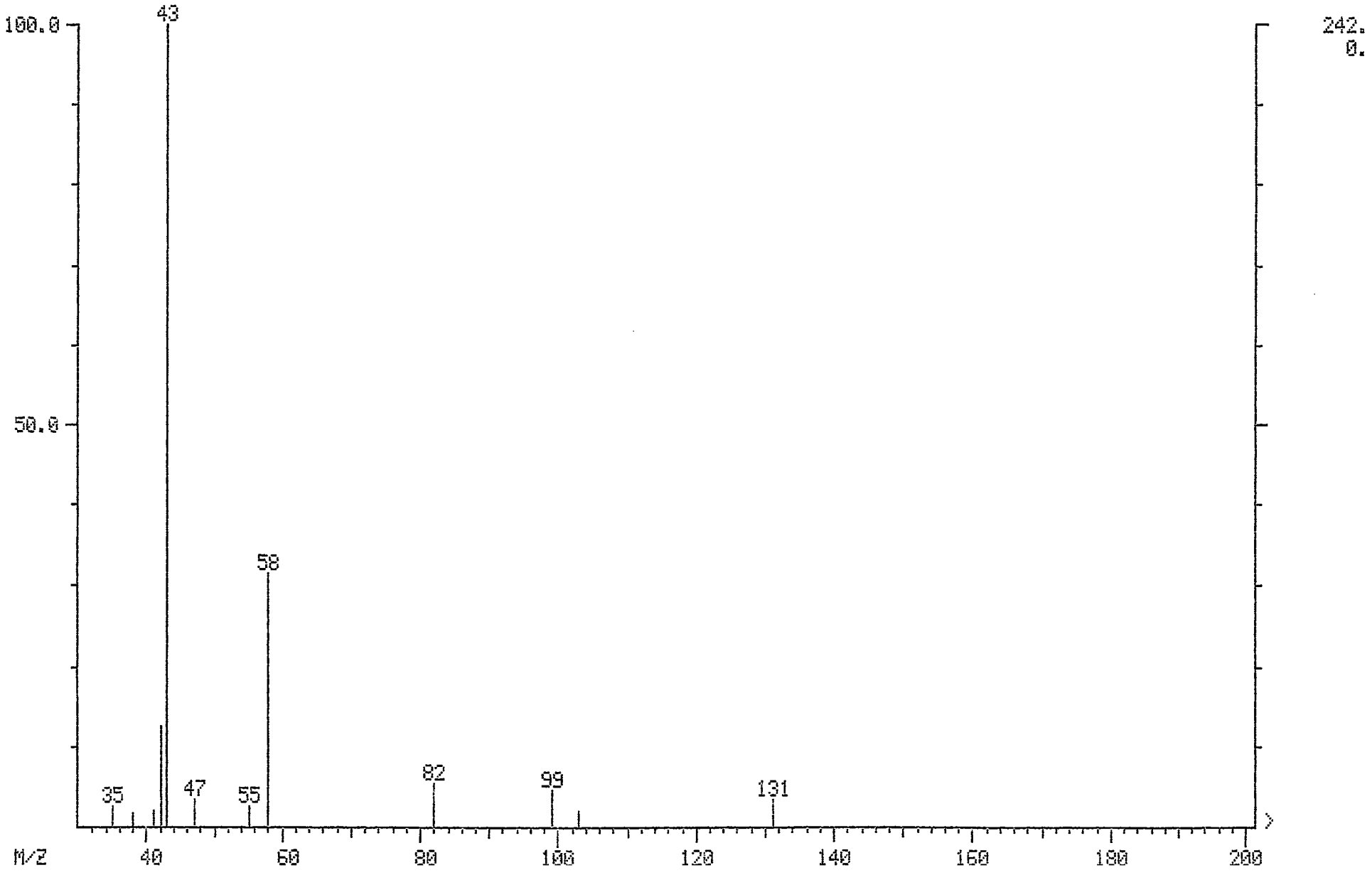


MASS SPECTRUM
11/13/93 11:15:00 + 3:56
SAMPLE: ~~MBLKMZ~~ VBLK NZ THM 11/28/93
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: VMB1113Z #236
CALI: VMB1113Z #3

BASE M/Z: 43
RIC: 419.

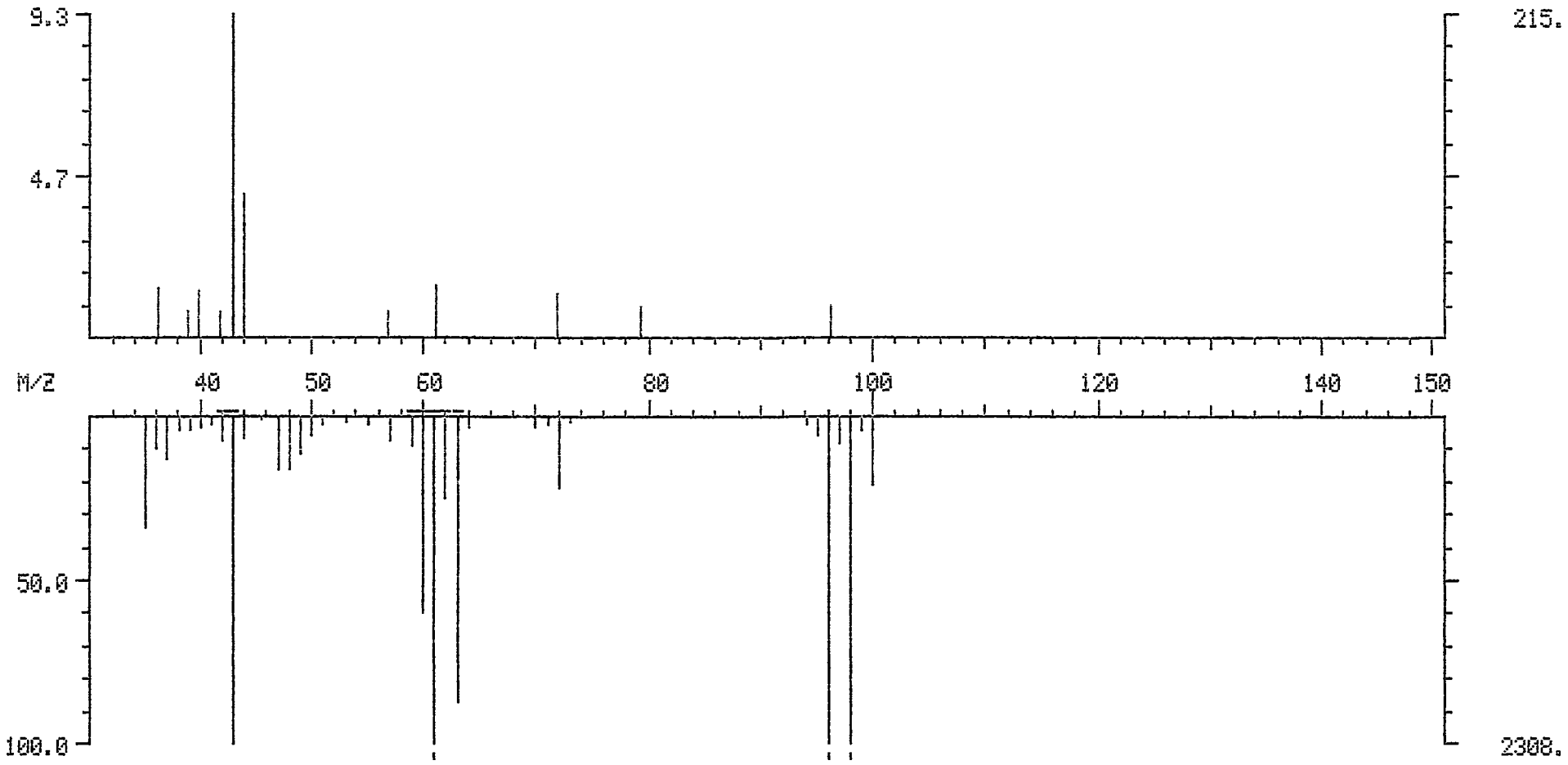
379
~~378~~
REV 10-7-93



380

DUAL MASS SPECTRUM
11/13/93 11:15:00 + 6:22
SECOND SPECTRUM
SAMPLE: ~~MBLKMZ~~ VBLKNZ THM 11/28/93
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
NAME: C110 2-BUTANONE

DATA: VMB1113Z #382 BASE M/Z: 43/ 61
CALI: VMB1113Z #3 RIC: 550./ 25344.
DATA: 50VZ1113Z #382

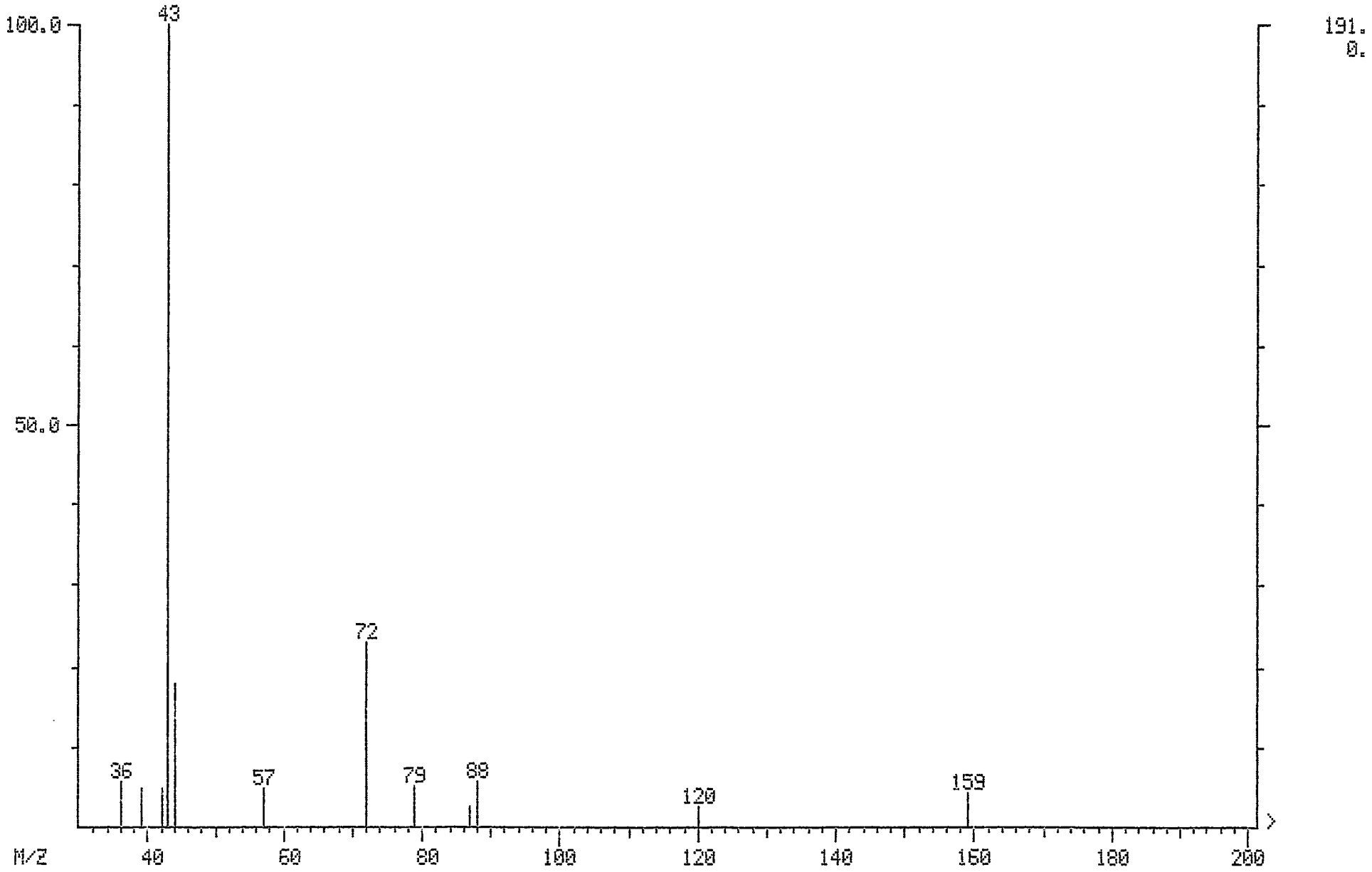


MASS SPECTRUM
11/13/93 11:15:00 + 6:22
SAMPLE: ~~MBLKMZ~~ VBLKNZ TMM 11/28/93
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 65 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: VMB1113Z #382
CALI: VMB1113Z #3

BASE M/Z: 43
RIC: 364.

331

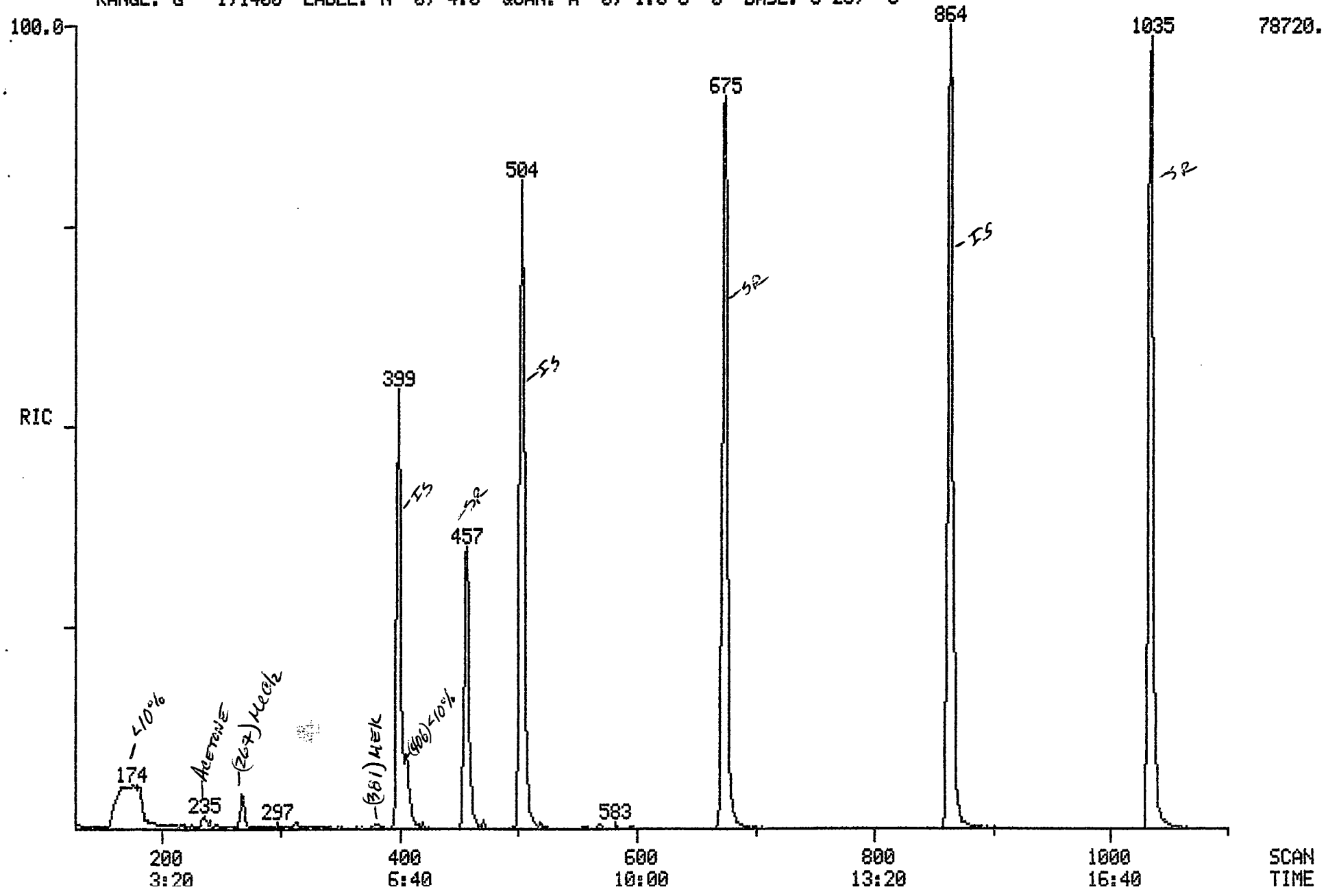


RIC
11/28/93 12:33:00
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VMB1128Z #1
CALI: VMB1128Z #3

SCANS 125 TO 1100

384



Quantitation Report File: VMB1128Z

Data: VMB1128Z.TI
11/28/93 12:33:00
Sample: VBLK2Z
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

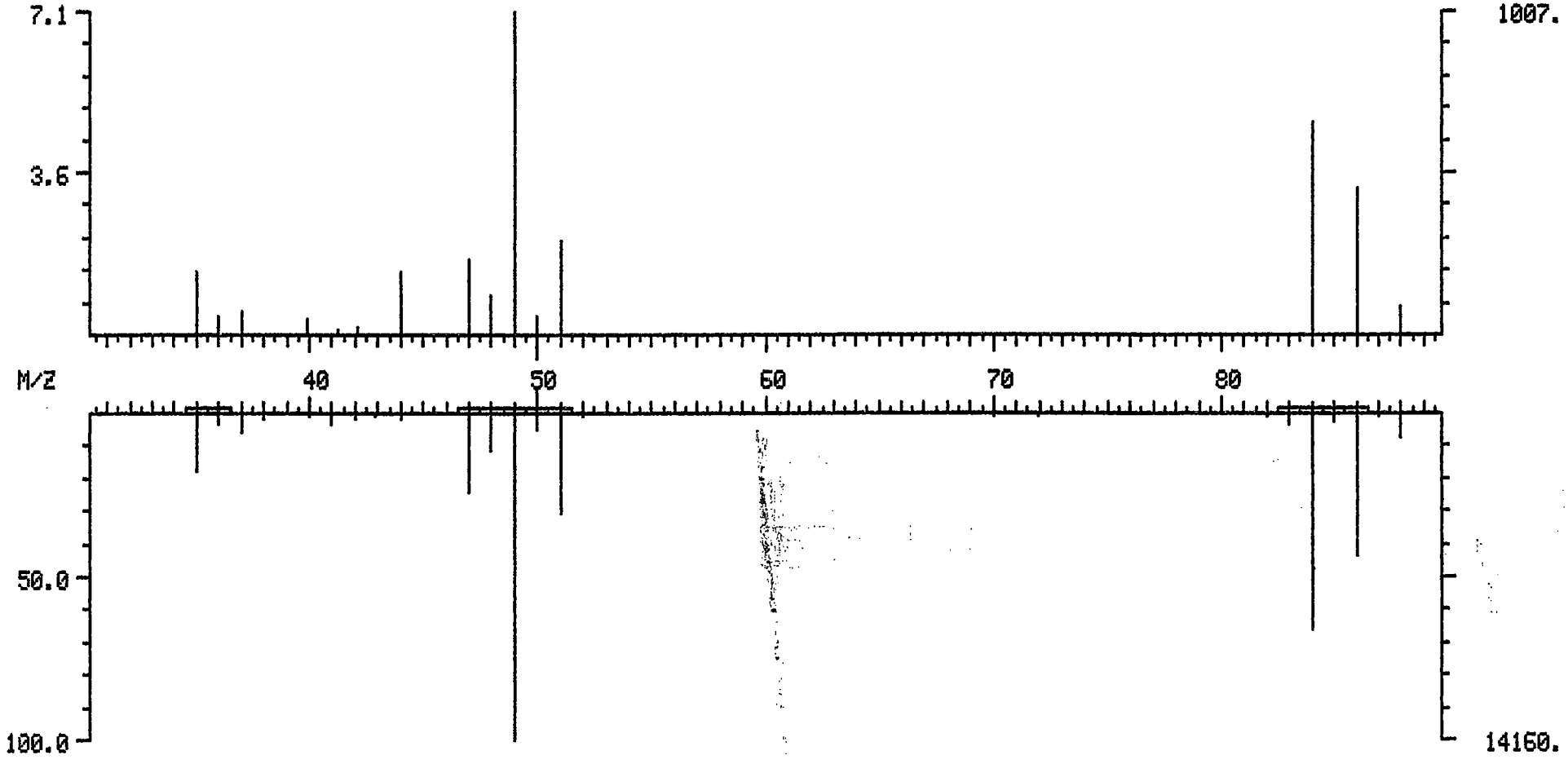
No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	CO30 METHYLENE CHLORIDE
8	CO35 ACETONE
9	C110 2-BUTANONE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	399	6:39	1	1.000	A BV	27000.	50.000	NG/ML	15.18
2	114	504	8:24	2	1.000	A BB	131531.	50.000	NG/ML	15.18
3	117	864	14:24	3	1.000	A BB	118027.	50.000	NG/ML	15.18
4	65	456	7:36	1	1.143	A BB	47522.	49.929	NG/ML	15.16
5	98	675	11:15	3	0.781	A BB	123056.	56.267	NG/ML	17.09
6	95	1035	17:15	3	1.198	A BB	75270.	43.268	NG/UL	13.14
7	84	267	4:27	1	0.669	A BB	2462.	3.283	NG/ML	1.00
8	43	235	3:55	1	0.589	A BB	3379.	16.548	NG/ML	5.03
9	43	381	6:21	1	0.955	A BB	2250.	9.998	NG/ML	3.04

DUAL MASS SPECTRUM
11/28/93 12:33:00 + 4:27
SECOND SPECTRUM
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
NAME: C030 METHYLENE CHLORIDE

DATA: VMB1128Z #267
CALI: VMB1128Z #3
DATA: 50VZ1128 #266

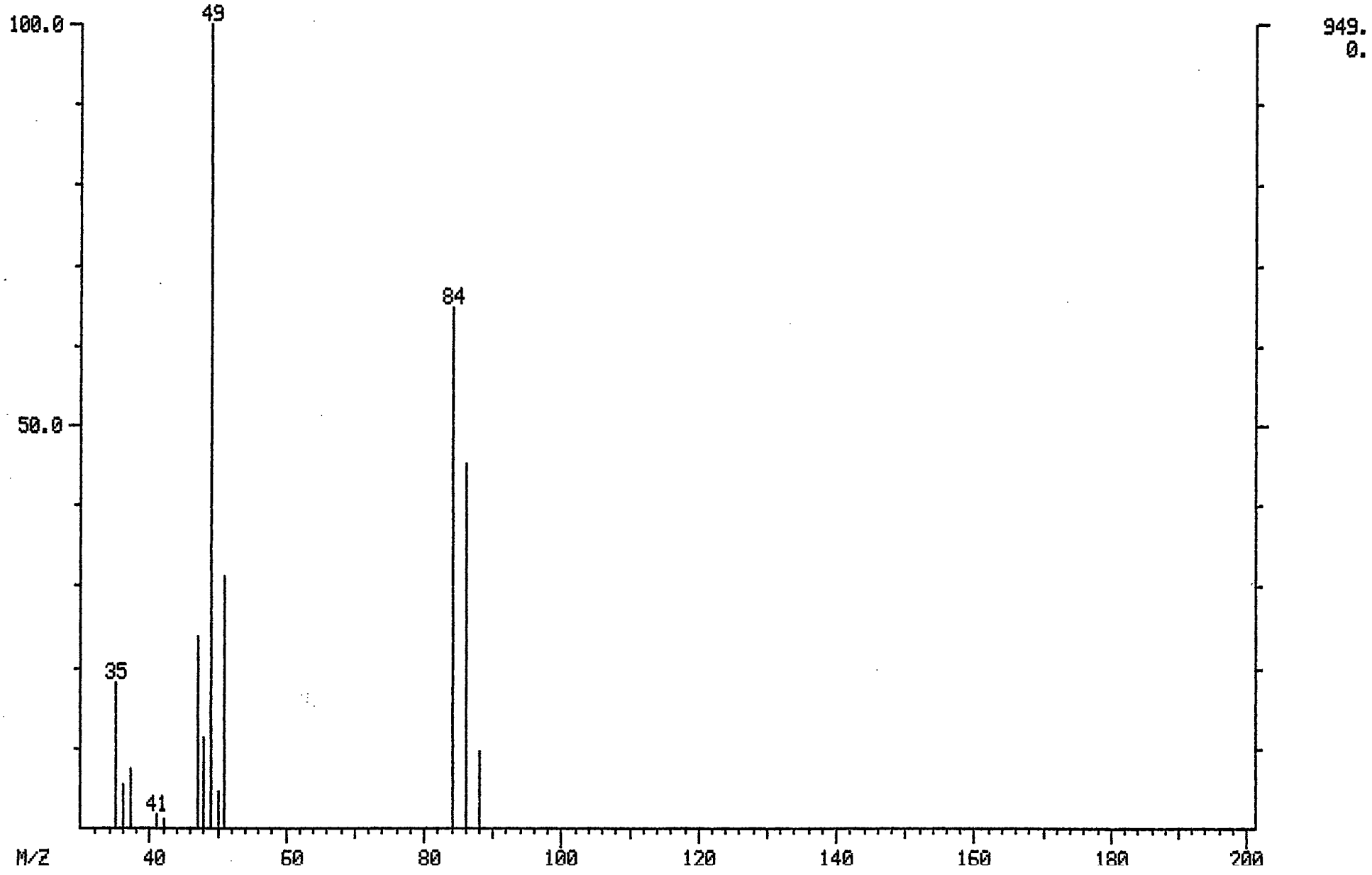
BASE M/Z: 49/ 49
RIC: 3516./ 47296.



MASS SPECTRUM
11/28/93 12:33:00 + 4:27
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 53 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: VMB1128Z #267
CALI: VMB1128Z #3

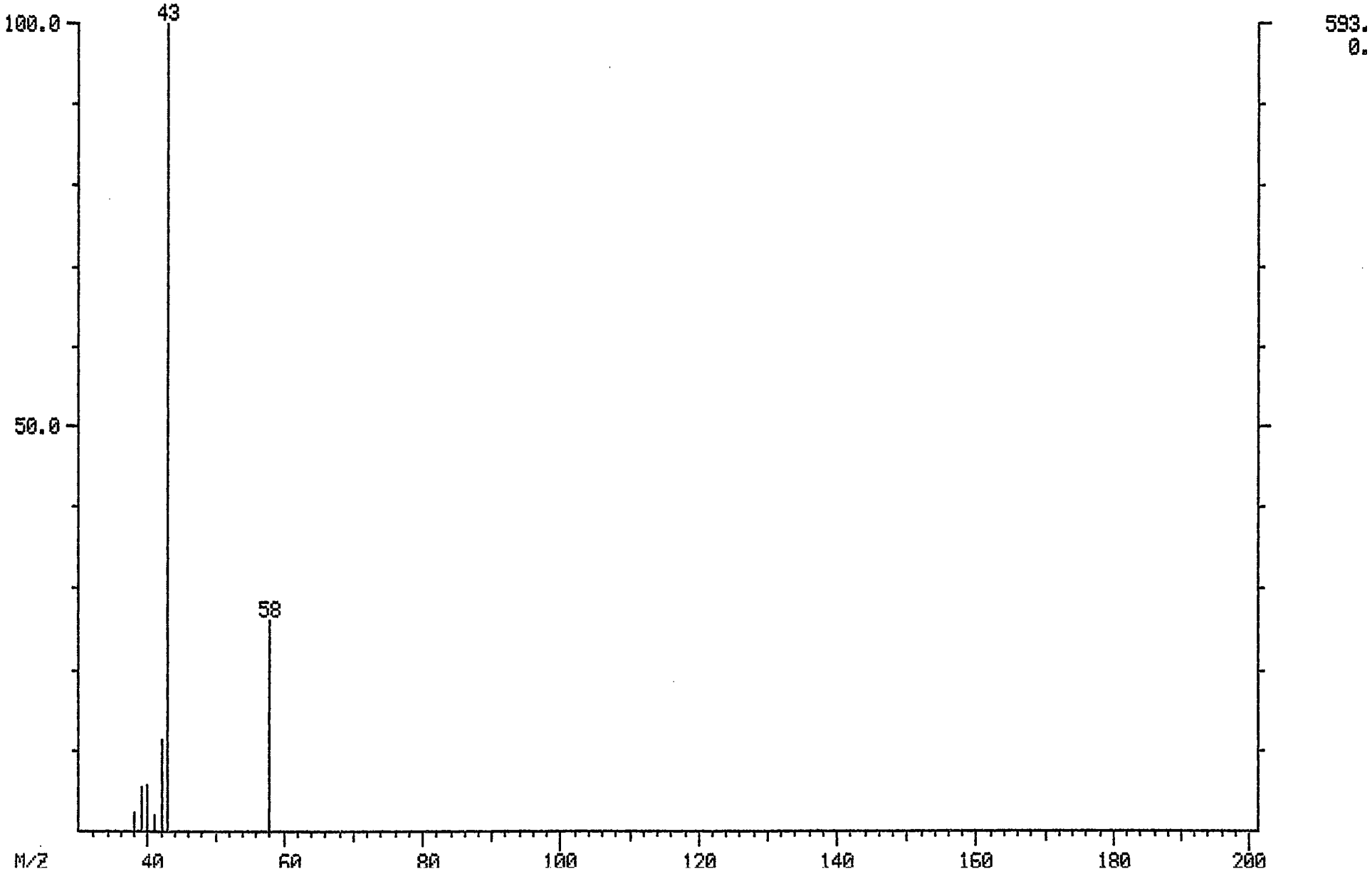
BASE M/Z: 49
RIC: 3080.



MASS SPECTRUM
11/28/93 12:33:00 + 3:55
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: VMB1128Z #235
CALI: VMB1128Z #3

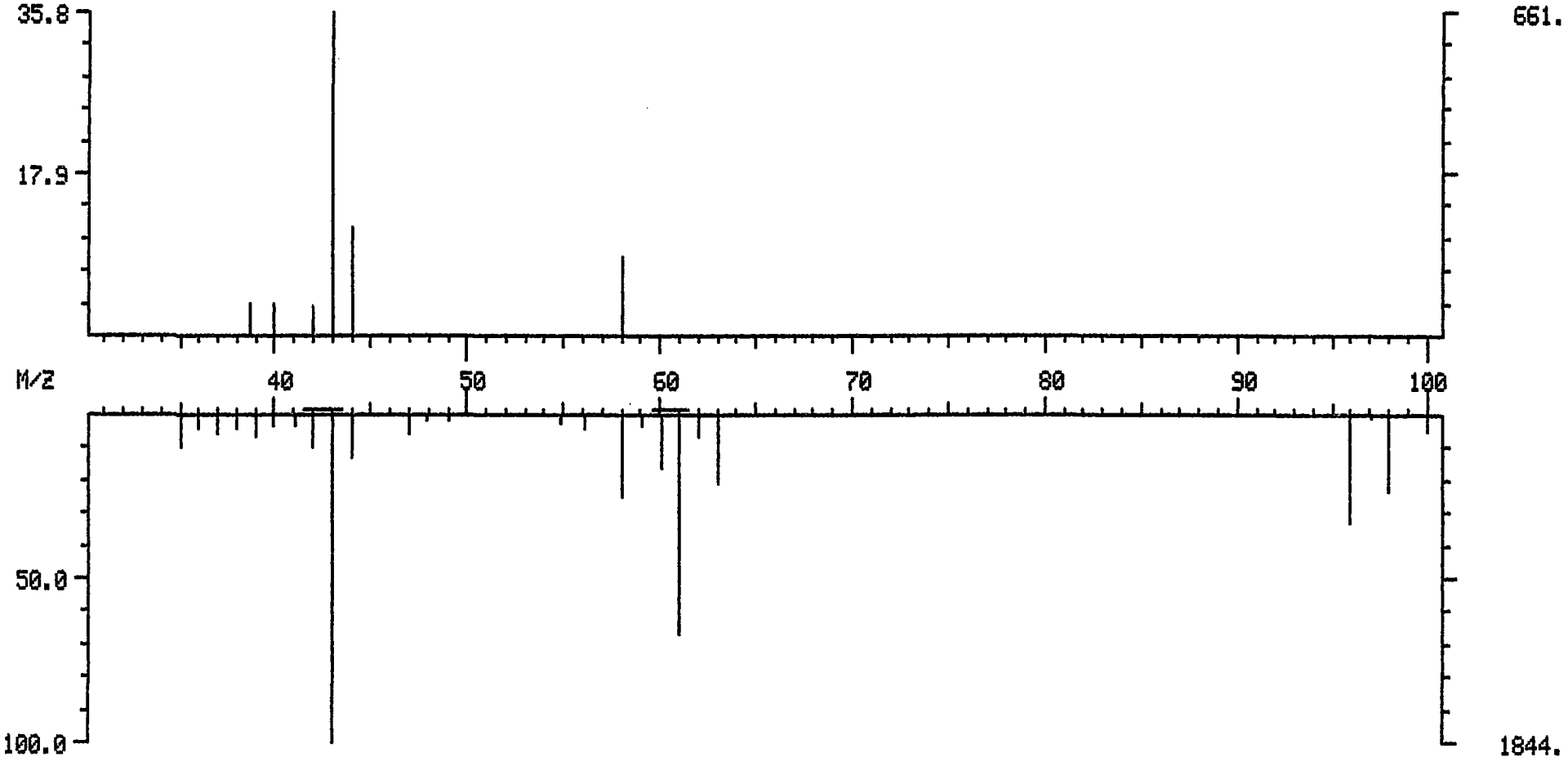
BASE M/Z: 43
RIC: 905.



DUAL MASS SPECTRUM
11/28/93 12:33:00 + 3:55
SECOND SPECTRUM
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 50 DEG. C
NAME: C035 ACETONE

DATA: VMB1128Z #235
CALI: VMB1128Z #3
DATA: 50VZ1128 #232

BASE M/Z: 43/ 43
RIC: 1230./ 6936.

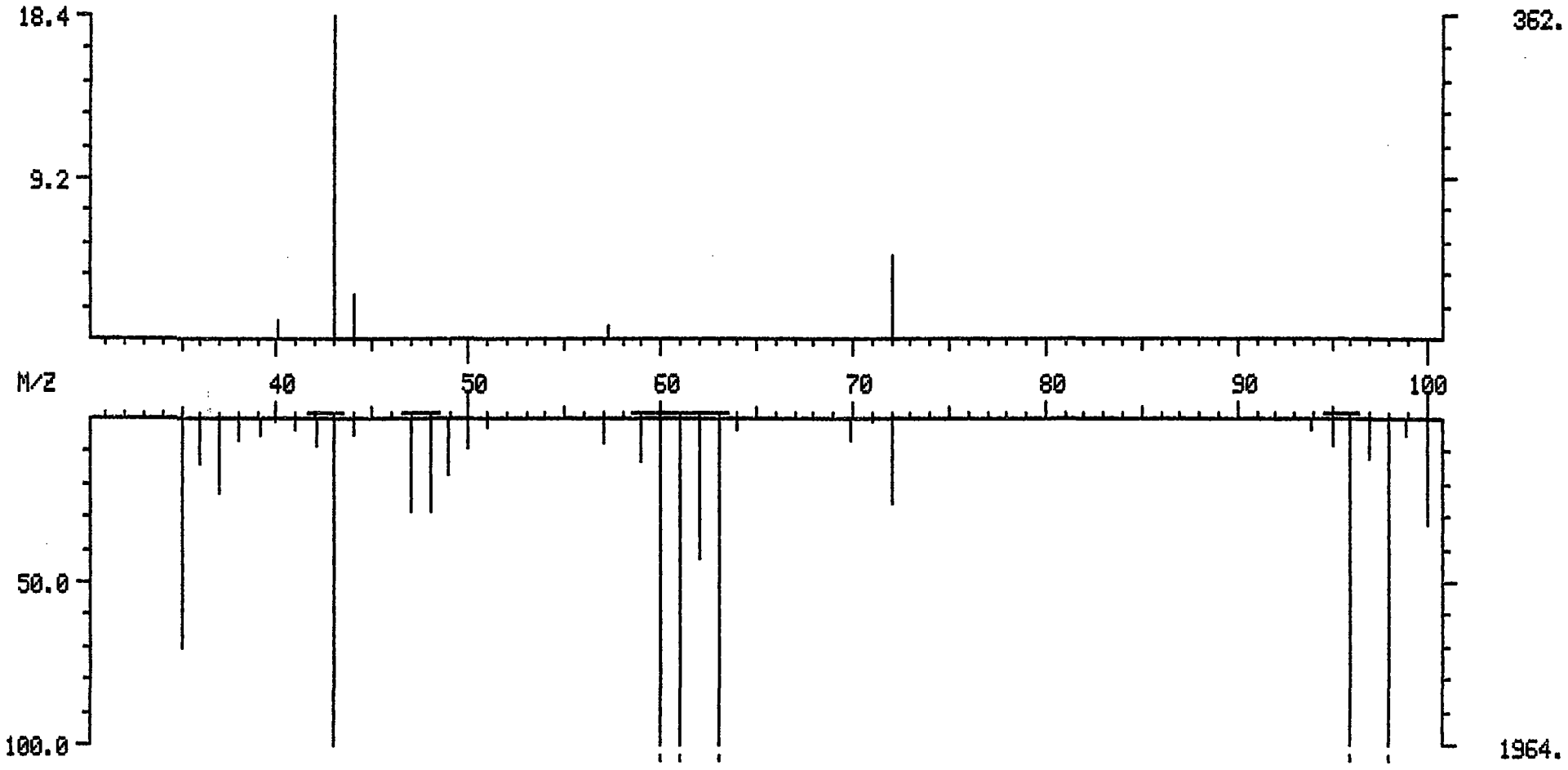


DUAL MASS SPECTRUM
11/28/93 12:33:00 + 6:21
SECOND SPECTRUM
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
NAME: C110 2-BUTANONE

DATA: VMB1128Z #381
CALI: VMB1128Z #3
DATA: 50VZ1128 #377

BASE M/Z: 43/ 61
RIC: 540./ 32288.

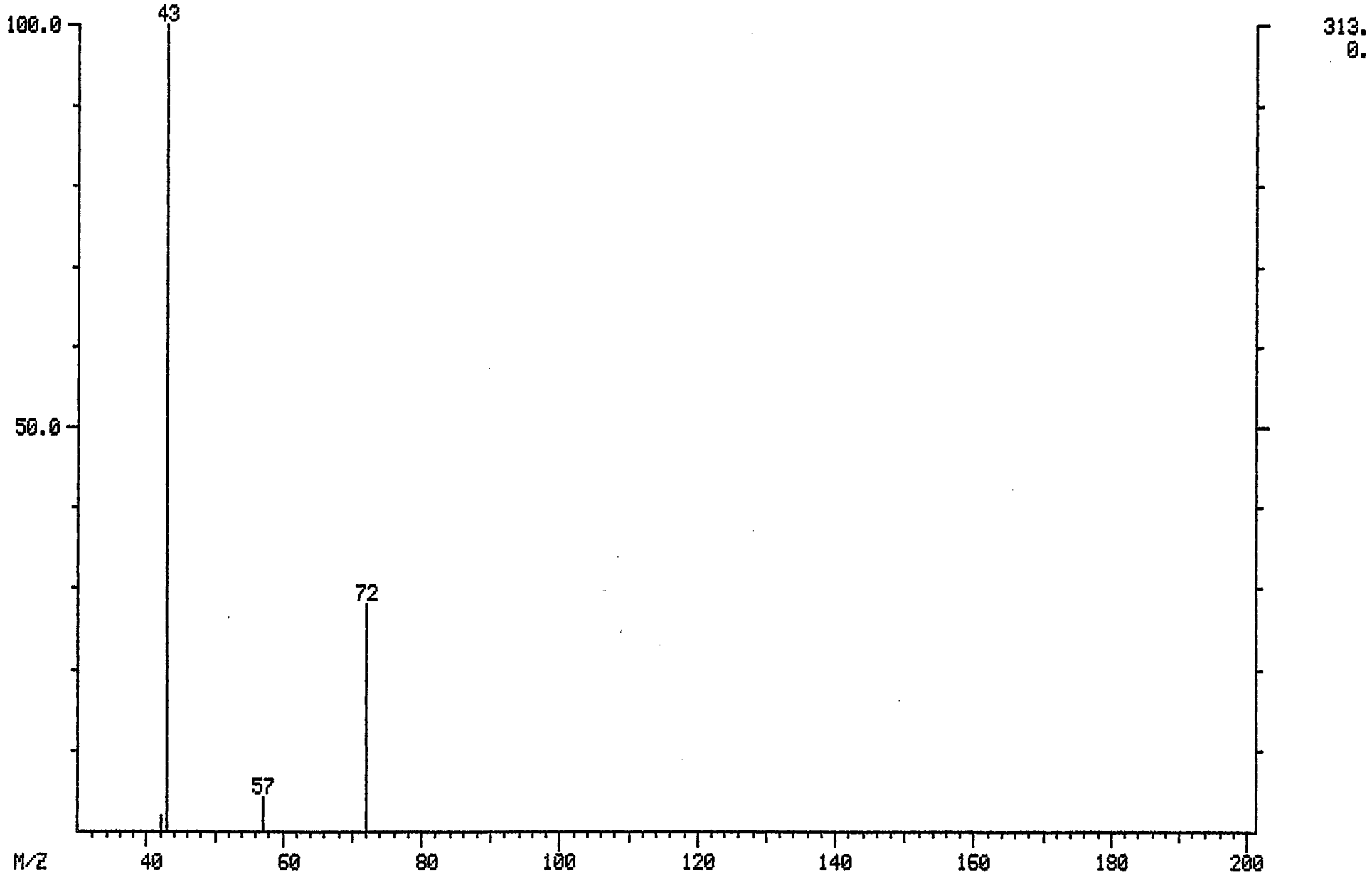
390



MASS SPECTRUM
11/28/93 12:33:00 + 6:21
SAMPLE: VBLK2Z
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 64 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C110 2-BUTANONE

DATA: VMB1128Z #381
CALI: VMB1128Z #3

BASE M/Z: 43
RIC: 420.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02VM

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ02VM

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

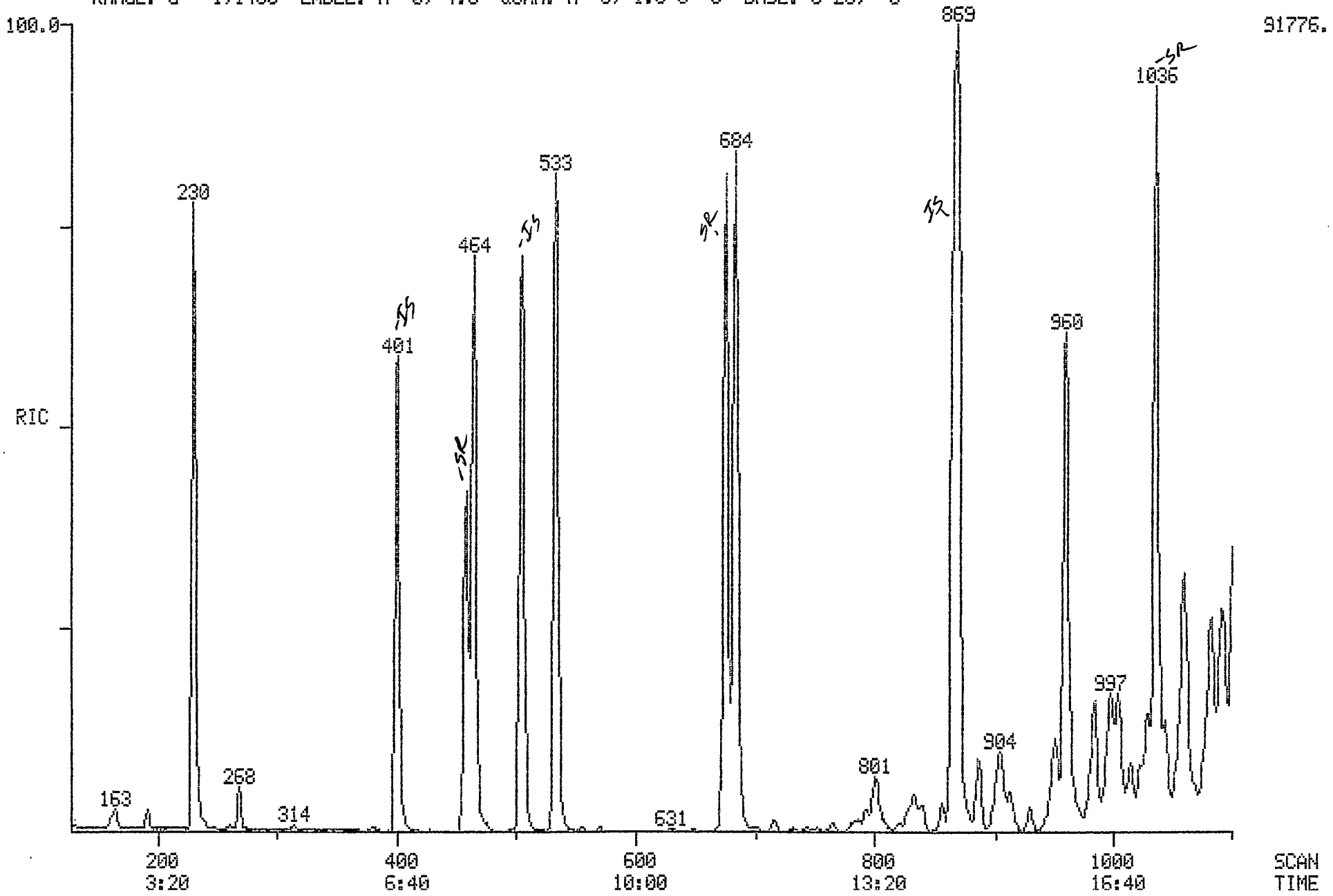
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	64	
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	58	
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	65	
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	4	J
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	67	
108-90-7	Chlorobenzene	59	
100-41-4	Ethylbenzene	5	J
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	39	

RIC
11/11/93 16:26:00
SAMPLE: EXQ02MS
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ02VM #1
CALI: EXQ02VM #3

SCANS 125 TO 1100



Quantitation Report File: EXQ02VM

Data: EXQ02VM.TI
11/11/93 16:26:00
Sample: EXQ02MS
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C045 1,1-DICHLOROETHENE
9	C110 2-BUTANONE
10	C150 TRICHLOROETHENE
11	C165 BENZENE
12	C210 2-HEXANONE
13	C230 TOLUENE
14	C235 CHLOROBENZENE
15	C240 ETHYLBENZENE
16	C250 TOTAL XYLENES

X1

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	28612.	50.000	NG/ML	8.49
2	114	505	8:25	2	1.000	A BB	125604.	50.000	NG/ML	8.49
3	117	865	14:25	3	1.000	A BB	101156.	50.000	NG/ML	8.49
4	65	458	7:38	1	1.145	A BB	66938.	49.144	NG/ML	8.34
5	98	676	11:16	3	0.782	A BB	118230.	56.791	NG/ML	9.64
6	95	1035	17:15	3	1.197	A BB	72266.	40.956	NG/UL	6.95
7	84	268	4:28	1	0.670	A BB	3149.	3.498	NG/ML	0.59
8	96	230	3:50	1	0.575	A BB	44275.	50.454	NG/ML	8.57
9	43	380	6:20	1	0.950	A BB	2240.	4.669	NG/ML	0.79
10	130	533	8:53	2	1.055	A BB	56648.	46.086	NG/ML	7.83
11	78	464	7:44	2	0.919	A BB	124961.	51.092	NG/ML	8.68
12	43	765	12:45	3	0.884	A BB	1799.	2.853	NG/ML	0.48
13	91	684	11:24	3	0.791	A BB	132863.	52.532	NG/ML	8.92
14	112	869	14:29	3	1.005	A BB	102126.	46.371	NG/ML	7.87
15	106	887	14:47	3	1.025	A BB	3972.	3.637	NG/ML	0.62
16	106	960	16:00	3	1.110	M XX	46132.	30.827	NG/ML	5.23

DAP
11/12/93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03VM

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EXQ03VM

Level: (low/med) MED Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/28/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

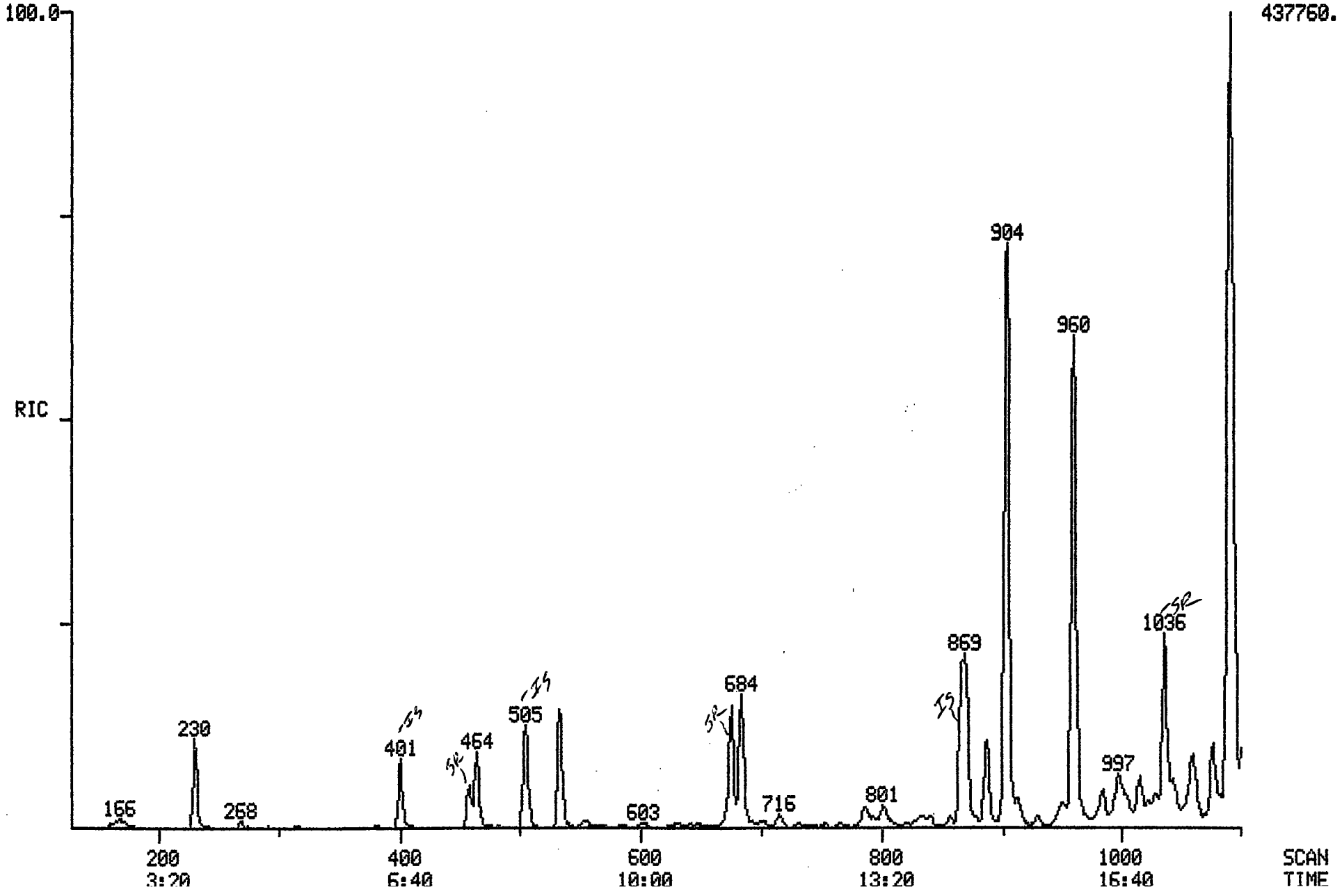
Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	7600	U
74-83-9	Bromomethane	7600	U
75-01-4	Vinyl Chloride	7600	U
75-00-3	Chloroethane	7600	U
75-09-2	Methylene Chloride	3300	BJ
67-64-1	Acetone	16000	B
75-15-0	Carbon Disulfide	7600	U
75-35-4	1,1-Dichloroethene	42000	
75-34-3	1,1-Dichloroethane	7600	U
540-59-0	1,2-Dichloroethene (total)	7600	U
67-66-3	Chloroform	7600	U
107-06-2	1,2-Dichloroethane	7600	U
78-93-3	2-Butanone	16000	B
71-55-6	1,1,1-Trichloroethane	7600	U
56-23-5	Carbon Tetrachloride	7600	U
75-27-4	Bromodichloromethane	7600	U
78-87-5	1,2-Dichloropropane	7600	U
10061-01-5	cis-1,3-Dichloropropene	7600	U
79-01-6	Trichloroethene	37000	
124-48-1	Dibromochloromethane	7600	U
79-00-5	1,1,2-Trichloroethane	7600	U
71-43-2	Benzene	38000	
10061-02-6	trans-1,3-Dichloropropene	7600	U
75-25-2	Bromoform	7600	U
108-10-1	4-Methyl-2-Pentanone	3000	J
591-78-6	2-Hexanone	7600	U
127-18-4	Tetrachloroethene	7600	U
79-34-5	1,1,2,2-Tetrachloroethane	4600	J
108-88-3	Toluene	44000	
108-90-7	Chlorobenzene	40000	
100-41-4	Ethylbenzene	21000	
100-42-5	Styrene	4200	J
1330-20-7	Xylene (total)	250000	

RIC
11/28/93 13:05:00
SAMPLE: EXQ03MS
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ03VM #1
CALI: EXQ03VM #3

SCANS 125 TO 1100



Quantitation Report File: EXQ03VM

Data: EXQ03VM.TI
11/28/93 13:05:00
Sample: EXQ03MS
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C035 ACETONE
9	C045 1,1-DICHLOROETHENE
10	C110 2-BUTANONE
11	C150 TRICHLOROETHENE
12	C165 BENZENE
13	C205 4-METHYL-2-PENTANONE
14	C225 1,1,2,2-TETRACHLOROETHANE
15	C230 TOLUENE
16	C235 CHLOROBENZENE
17	C240 ETHYLBENZENE
18	C245 STYRENE
19	C250 TOTAL XYLENES

X625

4g/10mls x 20µl/5000µl

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	401	6:41	1	1.000	A BB	22697.	50.000	NG/ML	5.23
2	114	505	8:25	2	1.000	A BB	109111.	50.000	NG/ML	5.23
3	117	866	14:26	3	1.000	A BB	113595.	50.000	NG/ML	5.23
4	65	458	7:38	1	1.142	A BB	39270.	49.082	NG/ML	5.13
5	98	676	11:16	3	0.781	A BB	103275.	49.064	NG/ML	5.13
6	95	1036	17:16	3	1.196	A BB	85888.	51.298	NG/UL	5.36
7	84	268	4:28	1	0.668	A BB	2665.	4.227	NG/ML	0.44
8	43	235	3:55	1	0.586	A BB	3533.	20.583	NG/ML	2.15
9	96	230	3:50	1	0.574	A BB	32722.	52.812	NG/ML	5.52
10	43	381	6:21	1	0.950	A BB	3780.	19.979	NG/ML	2.09
11	130	533	8:53	2	1.055	A BB	51334.	47.020	NG/ML	4.92
12	78	464	7:44	2	0.919	A BB	80000.	47.958	NG/ML	5.01
13	43	665	11:05	3	0.768	A BV	2108.	3.766	NG/ML	0.39
14	83	1060	17:40	3	1.224	A BB	7123.	5.848	NG/ML	0.61
15	91	684	11:24	3	0.790	A BB	127785.	55.605	NG/ML	5.81
16	112	869	14:29	3	1.003	A BB	114182.	50.210	NG/ML	5.25
17	106	887	14:47	3	1.024	A BB	29610.	26.902	NG/ML	2.81
18	104	960	16:00	3	1.109	A BB	11705.	5.311	NG/ML	0.56
19	106	904	15:04	3	1.044	M XX	439827.	316.627	NG/ML	33.11

D.A.F.
11/28/93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12VM

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ12VM

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

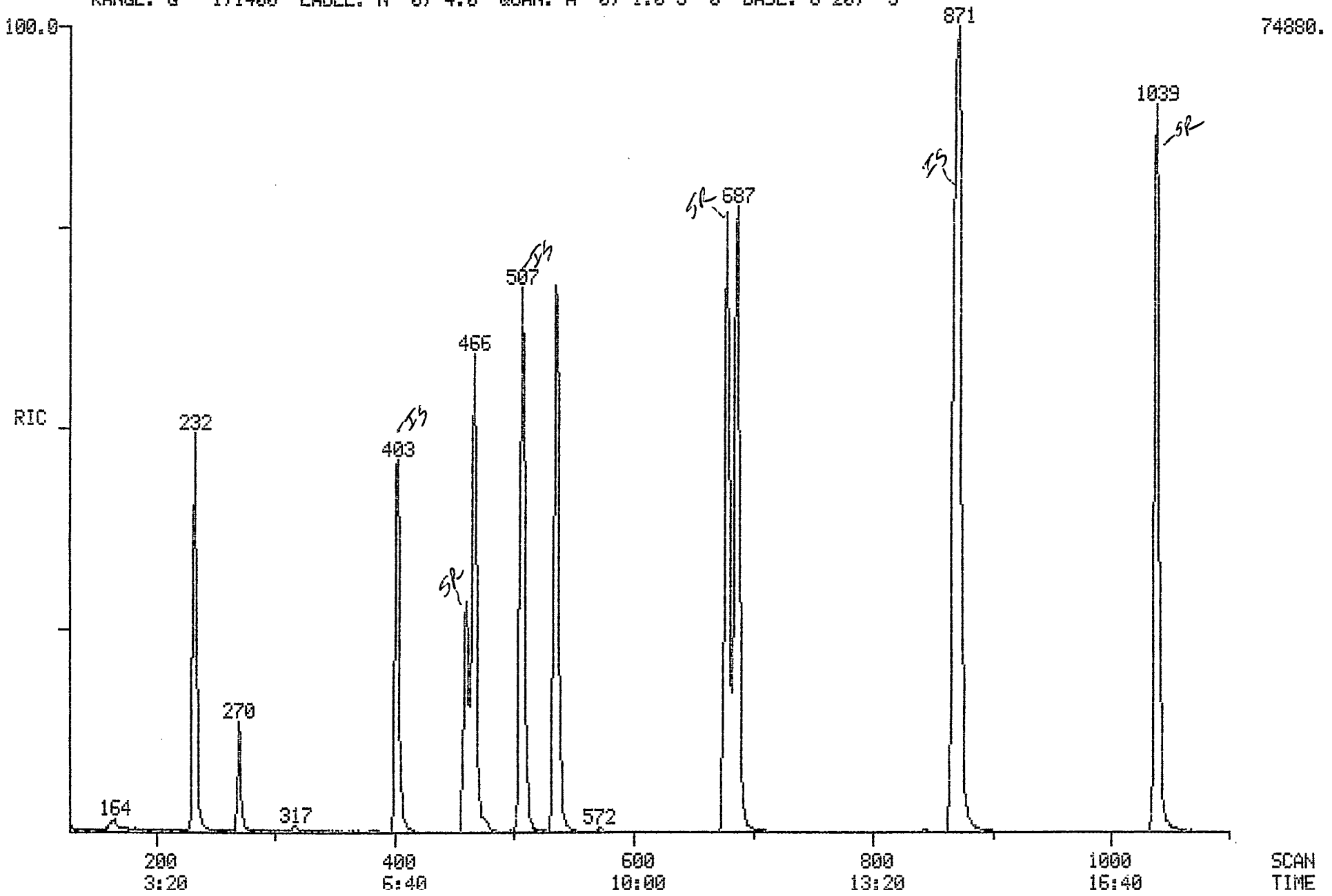
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	47	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	5	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	47	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	48	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

RIC
11/13/93 18:41:00
SAMPLE: EX012MS
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX012VM #1
CALI: EX012VM #3

SCANS 125 TO 1100



Quantitation Report File: EXQ12VM

Data: EXQ12VM.TI
11/13/93 18:41:00
Sample: EXQ12MS
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C045 1,1-DICHLOROETHENE
9	C110 2-BUTANONE
10	C150 TRICHLOROETHENE
11	C165 BENZENE
12	C230 TOLUENE
13	C235 CHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	402	6:42	1	1.000	A BB	20823.	50.000	NG/ML	8.89
2	114	507	8:27	2	1.000	A BB	101995.	50.000	NG/ML	8.89
3	117	868	14:28	3	1.000	A BB	93177.	50.000	NG/ML	8.89
4	65	460	7:40	1	1.144	A BB	32880.	54.557	NG/ML	9.70
5	98	678	11:18	3	0.781	A BB	100013.	50.965	NG/ML	9.06
6	95	1039	17:19	3	1.197	A BB	70695.	49.678	NG/UL	8.83
7	84	270	4:30	1	0.672	A BB	7453.	12.986	NG/ML	2.31
8	96	232	3:52	1	0.577	A BB	27055.	46.533	NG/ML	8.27
9	43	382	6:22	1	0.950	A BB	955.	5.058	NG/ML	0.90
10	130	535	8:55	2	1.055	A BB	43724.	46.781	NG/ML	8.31
11	78	466	7:46	2	0.919	A BB	89724.	49.580	NG/ML	8.81
12	91	687	11:27	3	0.791	A BB	107860.	48.244	NG/ML	8.57
13	112	872	14:32	3	1.005	A BB	92439.	48.235	NG/ML	8.57

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02VD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EXQ02VD

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/11/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

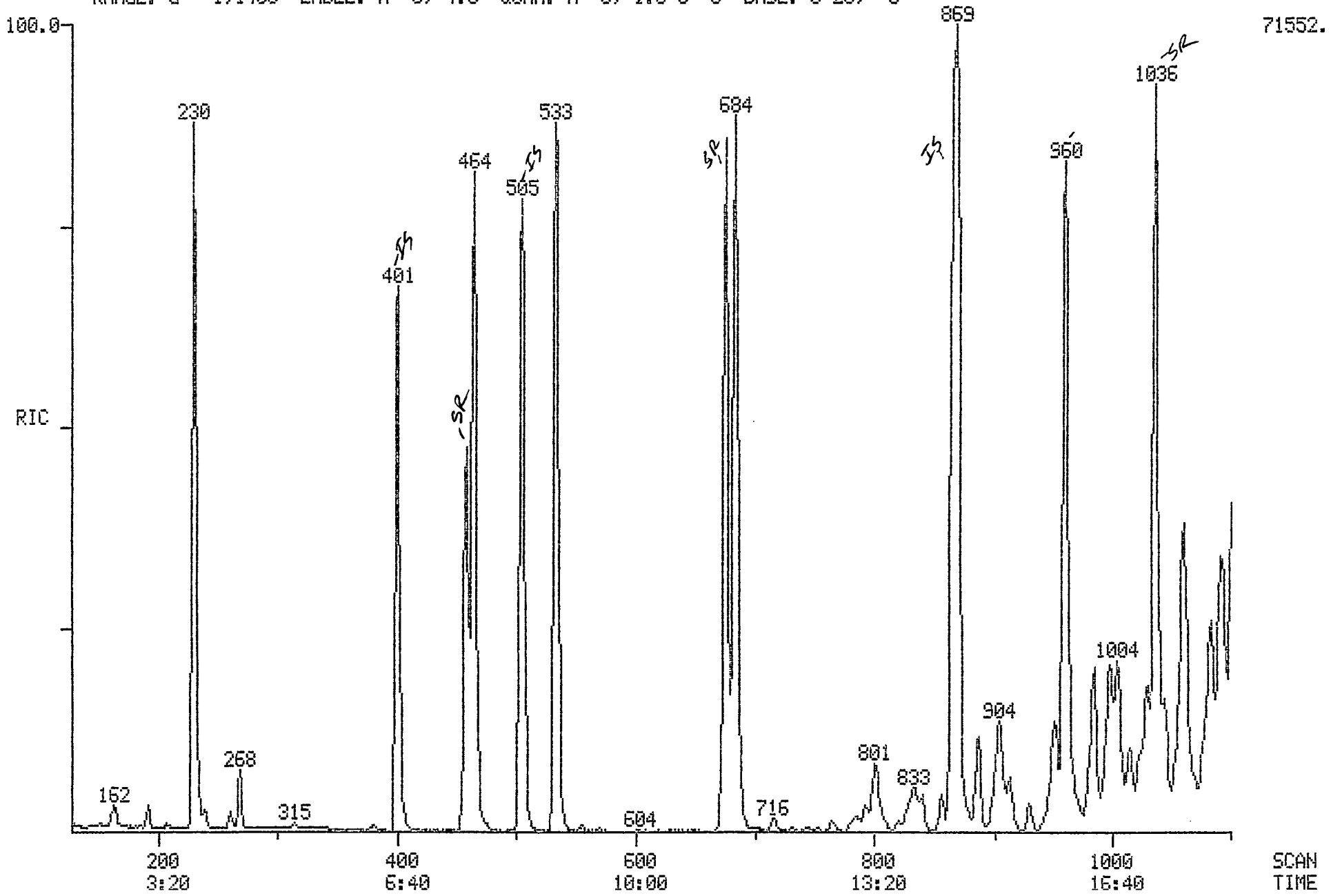
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	5	BJ
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	62	
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	57	
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	66	
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	4	J
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	69	
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	6	J
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	51	

RIC
11/11/93 16:59:00
SAMPLE: EXQ02MSD
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ02VD #1
CALI: EXQ02VD #3

SCANS 125 TO 1100



Quantitation Report File: EXQ02VD

Data: EXQ02VD.TI
11/11/93 16:59:00
Sample: EXQ02MSD
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT.STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C045 1,1-DICHLOROETHENE
9	C110 2-BUTANONE
10	C150 TRICHLOROETHENE
11	C165 BENZENE
12	C210 2-HEXANONE
13	C230 TOLUENE
14	C235 CHLOROBENZENE
15	C240 ETHYLBENZENE
16	C250 TOTAL XYLENES

XI

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	400	6:40	1	1.000	A BB	25930.	50.000	NG/ML	8.36
2	114	505	8:25	2	1.000	A BB	109240.	50.000	NG/ML	8.36
3	117	865	14:25	3	1.000	A BB	81006.	50.000	NG/ML	8.36
4	65	458	7:38	1	1.145	A BB	58249.	47.188	NG/ML	7.89
5	98	676	11:16	3	0.782	A BB	96640.	57.967	NG/ML	9.69
6	95	1036	17:16	3	1.198	A BB	55359.	39.179	NG/UL	6.55
7	84	268	4:28	1	0.670	A BB	3339.	4.093	NG/ML	0.68
8	96	230	3:50	1	0.575	A BB	38684.	48.642	NG/ML	8.13
9	43	380	6:20	1	0.950	A BB	2149.	4.943	NG/ML	0.83
10	130	533	8:53	2	1.055	A BB	48212.	45.098	NG/ML	7.54
11	78	464	7:44	2	0.919	A BB	110330.	51.867	NG/ML	8.67
12	43	766	12:46	3	0.886	A BB	1665.	3.298	NG/ML	0.55
13	91	684	11:24	3	0.791	A BB	110433.	54.524	NG/ML	9.12
14	112	869	14:29	3	1.005	A BB	81344.	46.122	NG/ML	7.71
15	106	887	14:47	3	1.025	A BB	4223.	4.828	NG/ML	0.81
16	106	960	16:00	3	1.110	M XX	48274.	40.283	NG/ML	6.74

DAZ
11/12/93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ03MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ03VD

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EXQ03VD

Level: (low/med) MED Date Received: 11/04/93

% Moisture: not dec. 21 Date Analyzed: 11/28/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

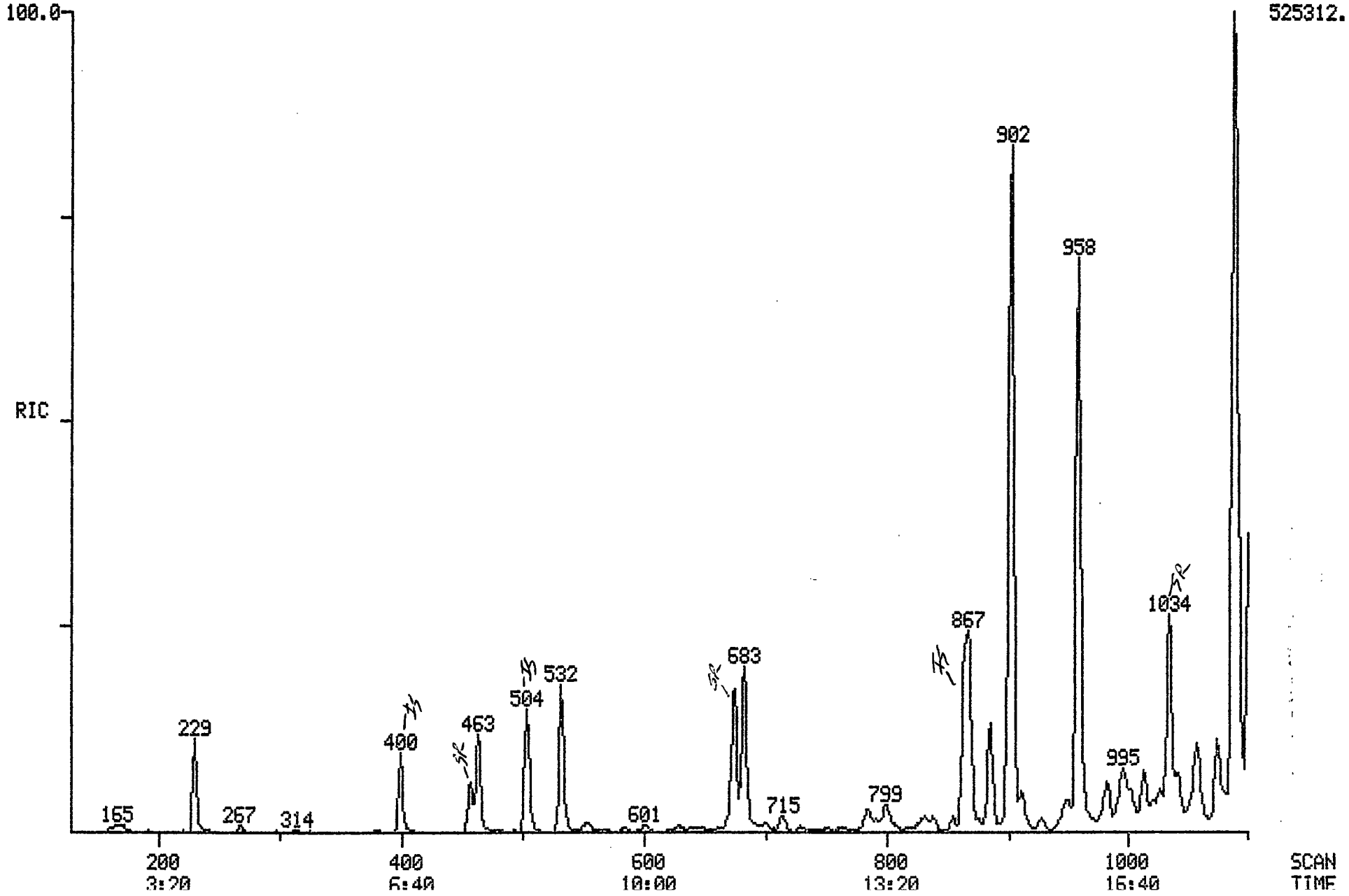
Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	7600	U
74-83-9	Bromomethane	7600	U
75-01-4	Vinyl Chloride	7600	U
75-00-3	Chloroethane	7600	U
75-09-2	Methylene Chloride	2900	BJ
67-64-1	Acetone	13000	B
75-15-0	Carbon Disulfide	7600	U
75-35-4	1,1-Dichloroethene	36000	
75-34-3	1,1-Dichloroethane	7600	U
540-59-0	1,2-Dichloroethene (total)	7600	U
67-66-3	Chloroform	7600	U
107-06-2	1,2-Dichloroethane	7600	U
78-93-3	2-Butanone	16000	B
71-55-6	1,1,1-Trichloroethane	7600	U
56-23-5	Carbon Tetrachloride	7600	U
75-27-4	Bromodichloromethane	7600	U
78-87-5	1,2-Dichloropropane	7600	U
10061-01-5	cis-1,3-Dichloropropene	7600	U
79-01-6	Trichloroethene	36000	
124-48-1	Dibromochloromethane	7600	U
79-00-5	1,1,2-Trichloroethane	7600	U
71-43-2	Benzene	37000	
10061-02-6	trans-1,3-Dichloropropene	7600	U
75-25-2	Bromoform	7600	U
108-10-1	4-Methyl-2-Pentanone	3900	J
591-78-6	2-Hexanone	7600	U
127-18-4	Tetrachloroethene	7600	U
79-34-5	1,1,2,2-Tetrachloroethane	4700	J
108-88-3	Toluene	46000	
108-90-7	Chlorobenzene	39000	
100-41-4	Ethylbenzene	22000	
100-42-5	Styrene	4200	J
1330-20-7	Xylene (total)	250000	

RIC
11/28/93 13:37:00
SAMPLE: EXQ03MSD
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ03VD #1
CALI: EXQ03VD #3

SCANS 125 TO 1100



Quantitation Report File: EXQ03VD

Data: EXQ03VD.TI
11/28/93 13:37:00
Sample: EXQ03MSD
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C035 ACETONE
9	C045 1,1-DICHLOROETHENE
10	C110 2-BUTANONE
11	C150 TRICHLOROETHENE
12	C165 BENZENE
13	C205 4-METHYL-2-PENTANONE
14	C225 1,1,2,2-TETRACHLOROETHANE
15	C230 TOLUENE
16	C235 CHLOROBENZENE
17	C240 ETHYLBENZENE
18	C245 STYRENE
19	C250 TOTAL XYLENES

X625

µg/10mls x 20µl/5000µl

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	399	6:39	1	1.000	A BB	33531.	50.000 NG/ML	5.31
2	114	504	8:24	2	1.000	A BB	166514.	50.000 NG/ML	5.31
3	117	864	14:24	3	1.000	A BB	159612.	50.000 NG/ML	5.31
4	65	457	7:37	1	1.145	A BB	55640.	47.072 NG/ML	4.99
5	98	675	11:15	3	0.781	A BB	154238.	52.150 NG/ML	5.53
6	95	1034	17:14	3	1.197	A BB	110692.	47.052 NG/UL	4.99
7	84	267	4:27	1	0.669	A BB	3426.	3.679 NG/ML	0.39
8	43	234	3:54	1	0.586	A BB	4244.	16.733 NG/ML	1.78
9	96	229	3:49	1	0.574	A BB	42058.	45.947 NG/ML	4.88
10	43	380	6:20	1	0.952	A BB	5821.	20.825 NG/ML	2.21
11	130	532	8:52	2	1.056	A BB	75805.	45.498 NG/ML	4.83
12	78	463	7:43	2	0.919	A BB	120088.	47.172 NG/ML	5.01
13	43	663	11:03	3	0.767	A BV	3869.	4.920 NG/ML	0.52
14	83	1058	17:38	3	1.225	A BB	10199.	5.959 NG/ML	0.63
15	91	683	11:23	3	0.791	A BB	187039.	57.924 NG/ML	6.15
16	112	868	14:28	3	1.005	A BB	156775.	49.064 NG/ML	5.21
17	106	885	14:45	3	1.024	A BB	42508.	27.486 NG/ML	2.92
18	104	958	15:58	3	1.109	A BB	16593.	5.359 NG/ML	0.57
19	106	902	15:02	3	1.044	M XX	615925.	315.562 NG/ML	33.49

Z.A.F.
11/28/93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12VD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: EXQ12VD

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: not dec. Date Analyzed: 11/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

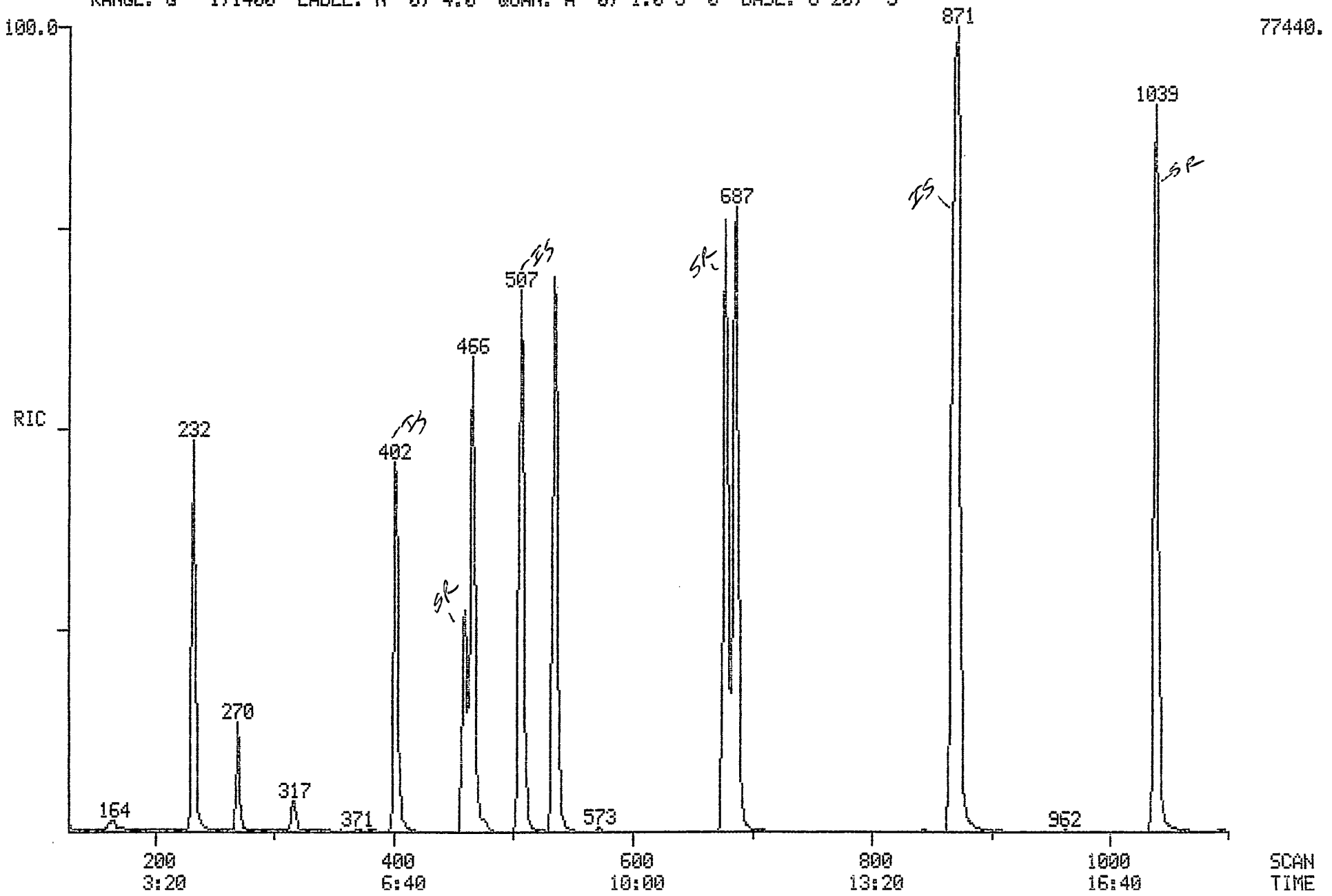
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	46	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	48	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

RIC
11/13/93 19:13:00
SAMPLE: EX012MSD
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX012VD #1
CALI: EX012VD #3

SCANS 125 TO 1100



Quantitation Report File: EXQ12VD

Data: EXQ12VD.TI
11/13/93 19:13:00
Sample: EXQ12MSD
Conds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
Formula: Instrument: 026 Weight: 0.000
Submitted by: ENCOTEC Analyst: DW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

X1

No	Name
1	CI01 BROMOCHLOROMETHANE***(INT. STD.)***
2	CI10 1,4-DIFLUOROBENZENE***(INT. STD.)***
3	CI20 D5-CHLOROBENZENE***(INT. STD.)***
4	CS15 D4-1,2-DICHLOROETHANE***(SURR. STD.)***
5	CS05 D8-TOLUENE***(SURR. STD.)***
6	CS10 BROMOFLUOROBENZENE***(SURR. STD.)***
7	C030 METHYLENE CHLORIDE
8	C045 1,1-DICHLOROETHENE
9	C150 TRICHLOROETHENE
10	C165 BENZENE
11	C230 TOLUENE
12	C235 CHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	402	6:42	1	1.000	A BB	21618.	50.000 NG/ML	9.04
2	114	507	8:27	2	1.000	A BB	107296.	50.000 NG/ML	9.04
3	117	868	14:28	3	1.000	A BB	95899.	50.000 NG/ML	9.04
4	65	460	7:40	1	1.144	A BB	33675.	53.822 NG/ML	9.73
5	98	678	11:18	3	0.781	A BB	103146.	51.070 NG/ML	9.23
6	95	1039	17:19	3	1.197	A BB	72314.	49.374 NG/UL	8.92
7	84	270	4:30	1	0.672	A BB	7501.	12.589 NG/ML	2.27
8	96	232	3:52	1	0.577	A BB	27488.	45.540 NG/ML	8.23
9	130	535	8:55	2	1.055	A BB	45298.	46.070 NG/ML	8.33
10	78	466	7:46	2	0.919	A BB	92690.	48.689 NG/ML	8.80
11	91	687	11:27	3	0.791	A BB	111313.	48.376 NG/ML	8.74
12	112	872	14:32	3	1.005	A BB	94384.	47.852 NG/ML	8.65

O'Hara Property

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

REGION 5 COPY

S C R E E N I N G P A C K A G E
S U M M A R Y I N F O R M A T I O N

== OLM01.8 VER. 5 ==

SDG:	EXQ02
CASE:	21170
LAB:	ENCOT
CONTRACT:	68-D2-0012
REGION:	5
DRD:	12/09/93
SDG RECEIPT DATE:	11/04/93
FORMAT:	AGENCY STANDARD
SCREEN DATE:	12/14/93
MAIL DATE 1:	12/16/93
SCREENER:	SS/SC

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

SAMPLE ANALYSIS SUMMARY REPORT

EXPLANATORY NOTES

"ANALYZED/HOLDING" AND "EXTRACTED HOLDING" COLUMNS SHOW WHETHER AN ANALYSIS WAS (YES) OR WAS NOT (NO) PERFORMED. NUMBERS INDICATE THE DAYS (IF ANY) BY WHICH THE EXTRACTION OR ANALYSIS REQUIREMENT WAS EXCEEDED. THE "DEFECTS" COLUMN IS DIVIDED BETWEEN REPORTING DEFECTS ("I" FOR "INCOMPLETE") AND TECHNICAL DEFECTS ("N" FOR "NONCOMPLIANT"). SEE THE "DETAILED SUMMARY OF CCS REVIEW" FOR MORE INFORMATION ON THE EXACT NATURE OF DEFECTS.

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	VOLATILES			SEMI-VOLATILES				PESTICIDE			
		DEFECTS				DEFECTS				DEFECTS	
SAMPLE	ANALYZED/ HOLDING	I	N	ANALYZED/ HOLDING	EXTRACTED HOLDING	I	N	ANALYZED/ HOLDING	EXTRACTED HOLDING	I	N
EXQ02	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ02MS	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ02MSD	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ03	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ03DL	YES	NO	NO	NO		NO	NO	NO		NO	NO
EXQ03MS	YES/14	NO	YES	NO		NO	NO	NO		NO	NO
EXQ03MSD	YES/14	NO	YES	NO		NO	NO	NO		NO	NO
EXQ04	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ05	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ06	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ07	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ07DL	NO	NO	NO	YES		NO	NO	NO		NO	NO
EXQ08	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ09	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ10	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ10RE	NO	NO	NO	YES		NO	NO	NO		NO	NO

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

SAMPLE ANALYSIS SUMMARY REPORT

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	VOLATILES			SEMI-VOLATILES				PESTICIDE			
		DEFECTS				DEFECTS				DEFECTS	
SAMPLE	ANALYZED/ HOLDING	I	N	ANALYZED/ HOLDING	EXTRACTED HOLDING	I	N	ANALYZED/ HOLDING	EXTRACTED HOLDING	I	N
EXQ11	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ12	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ12MS	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ12MSD	YES	NO	NO	YES		NO	NO	YES		NO	NO
EXQ14	YES	NO	NO	NO		NO	NO	NO		NO	NO
EXQ15	YES	NO	NO	NO		NO	NO	NO		NO	NO

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS BY SAMPLE AND CRITERION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

ASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
AB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
DG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	HOLDING TIMES					TECHNICAL/MANUAL DEFECTS										
SAMPLE	VOA AN	BNA EX	BNA AN	PES EX	PES AN	DAT A	SUR R	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	ANSEQ	GPCFLO	PHITS	MANUAL
EXQ02	Y		Y		Y												1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ02MS	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ02MSD	Y		Y		Y												1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ03	Y		Y		Y												7
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ03DL	Y		NA		NA												1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ03MS	14		NA		NA	1											1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ03MSD	14		NA		NA	1											1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ04	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ05	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ06	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ07	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ07DL	NA		Y		NA												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ08	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ09	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ10	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ10RE	NA		Y		NA												

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS BY SAMPLE AND CRITERION

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	HOLDING TIMES					TECHNICAL/MANUAL DEFECTS										
SAMPLE	VOA	BNA	BNA	PES	PES	DATA	SUR	MS/MSD	BLANK	TUNE	INIT	CONT	INTSTD	ANSEQ	GPCFLO	PHITS	MANUAL
EXQ11	Y		Y		Y												
EXQ12	Y		Y		Y												7
EXQ12MS	Y		Y		Y												7
EXQ12MSD	Y		Y		Y												7
EXQ14	Y		NA		NA												1
EXQ15	Y		NA		NA												1

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR VOLATILE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

ASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
AB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
DG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS								
SAMPLE	VOA AN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ02	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ02MS	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ02MSD	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ03	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ03DL	Y									1
	+	+	+	+	+	+	+	+	+	+
EXQ03MS	14	1								1
	+	+	+	+	+	+	+	+	+	+
EXQ03MSD	14	1								1
	+	+	+	+	+	+	+	+	+	+
EXQ04	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ05	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ06	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ07	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ07DL	NA									
	+	+	+	+	+	+	+	+	+	+
EXQ08	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ09	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ10	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ10RE	NA									

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR VOLATILE FRACTION

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS								
SAMPLE	VOA	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ11	Y	+	+	+	+	+	+	+	+	+
EXQ12	Y	+	+	+	+	+	+	+	+	1
EXQ12MS	Y	+	+	+	+	+	+	+	+	1
EXQ12MSD	Y	+	+	+	+	+	+	+	+	1
EXQ14	Y	+	+	+	+	+	+	+	+	1
EXQ15	Y	+	+	+	+	+	+	+	+	1
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR SEMI-VOLATILE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

ASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
AB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
DG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

			TECHNICAL/MANUAL DEFECTS								
SAMPLE	BNA EX	BNA AN	DATA	SUR R	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ02		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ02MS		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ02MSD		Y									1
	+		+	+	+	+	+	+	+	+	+
EXQ03		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ03DL		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ03MS		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ03MSD		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ04		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ05		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ06		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ07		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ07DL		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ08		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ09		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ10		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ10RE		Y									

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR SEMI-VOLATILE FRACTION

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

			TECHNICAL/MANUAL DEFECTS								
SAMPLE	BNA EX	BNA AN	DATA	SUR R	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ11		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ12		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ12MS		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ12MSD		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ14		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ15		NA									
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR PESTICIDE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

ASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
AB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
DG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

			TECHNICAL/MANUAL DEFECTS									
SAMPLE	PES EX	PES AN	DATA	SUR	MS/MSD	BLANK		INIT C	CONT C	AN SEQ	GPCFLO	PHITS	MANUAL
EXQ02		Y											1
	+		+	+	+	+	+	+	+	+	+	+	
EXQ02MS		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ02MSD		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ03		Y											1
	+		+	+	+	+	+	+	+	+	+	+	
EXQ03DL		NA											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ03MS		NA											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ03MSD		NA											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ04		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ05		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ06		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ07		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ07DL		NA											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ08		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ09		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ10		Y											
	+		+	+	+	+	+	+	+	+	+	+	
EXQ10RE		NA											

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR PESTICIDE FRACTION

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS									
SAMPLE	PES EX	PES AN	DATA	SUR	MS/MSD	BLANK	INIT C	CONT C	AN SEQ	GPCFLO	PHITS	MANUAL
EXQ11	Y											
	+		+	+	+	+	+	+	+	+	+	+
EXQ12	Y											
	+		+	+	+	+	+	+	+	+	+	+
EXQ12MS	Y											
	+		+	+	+	+	+	+	+	+	+	+
EXQ12MSD	Y											
	+		+	+	+	+	+	+	+	+	+	+
EXQ14	NA											
	+		+	+	+	+	+	+	+	+	+	+
EXQ15	NA											
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TECHNICAL DEFECT FREQUENCY REPORT

THIS REPORT PROVIDES A STATISTICAL SUMMARY OF THE TECHNICAL DEFECTS PRESENT IN THIS SDG.

LAB: ENCOT SDG: EXQ02

FRACTION	CRITERIA	NUMBER OF DEFECTS	PERCENT OF TOTAL DEFECTS	DEFECT MESSAGE
VOL	AI.11	2	100.0	EXCEEDING HOLDING TIME BY
		2	100.0	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING TEXTUAL DEFECT REPORT

DETAILED SUMMARY OF CCS REVIEW

EXPLANATORY NOTE
THIS REPORT SUMMARIZES DEFECT MESSAGES. INFORMATION IN PARENTHESES AT THE END OF A DEFECT MESSAGE REFERENCES THE SOW PAGE NUMBER WHERE THE REQUIREMENTS ORIGINATED. FOLLOWING THE DEFECT MESSAGE IS A LIST OF ALL AFFECTED SAMPLES.

Lab: ENCOT SDG: EXQ02 Fraction: Volatile

TECHNICAL DEFECTS

ANALYTICAL RESULTS

AI.11 Analysis of samples exceeded the 10 day VTSR holding time. (D-6/VOA)

Samples Affected

EXQ03MS
EXQ03MSD

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: VOLATILES

***** SAMPLE: EXQ03DL *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ03MS *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ03MSD *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12MS *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12MSD *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ14 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING MANUAL SCREENING DEFECT REPORT

LAB: ENCOT SDG: EXQ02 FRACTION: VOLATILES

***** SAMPLE: EXQ15 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: SEMI-VOLATILES

***** SAMPLE: EXQ02MSD *****

CRITERION AI. ANALYTICAL RESULTS (FORM 1B/1C)

AI.15.1.1 <EPA Sample Number> on <RICs> is missing. (B-15/B-16)*

***** SAMPLE: EXQ03 *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

***** SAMPLE: EXQ12 *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

***** SAMPLE: EXQ12MS *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

***** SAMPLE: EXQ12MSD *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING MANUAL SCREENING DEFECT REPORT

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: PESTICIDES

***** SAMPLE: EXQ02 *****

CRITERION G. PESTICIDE ANALYTICAL SEQUENCE (FORM 8D)

G.9 Standards for all tentatively identified Aroclors are not run within 72 hours of the sample analysis in which they were observed. (D-34 PEST/D-40 PEST)*

***** SAMPLE: EXQ03 *****

CRITERION G. PESTICIDE ANALYTICAL SEQUENCE (FORM 8D)

G.9 Standards for all tentatively identified Aroclors are not run within 72 hours of the sample analysis in which they were observed. (D-34 PEST/D-40 PEST)*

FRACTION	CRITERION	COMMENTS
VOA	TR.1	TRAFFIC REPORT IS MISSING FOR VOLATILE SAMPLES EXQ14 & 15
VOA	*	EPA SAMPLE NUMBER IS MISLABLED FOR EXZ03MS & EXQ03MSD. IT SHOULD BE EXQ03DLMS & EXQ03DLMSD.
VOA	E.13	ANALYSIS DATE IS MISSING FOR THE FOLLOWING BFBS: BFB ANALYZED ON 11/13/93 AT 7:01 BFB ANALYZED ON 11/13/93 AT 10:34 BFB ANALYZED ON 11/24/93 AT 8:47 SAMPLES AFFECTED ARE : EXQ14,EXQ12,EXQ12MS,EXQ12MSD,EXQ15, EXQ03DL,EXQ03MS & EXQ03MSD.
BNA	H.2	FORM 8C IS MISSING FOR EXQ03,EXQ12,EXQ12MS & EXQ12MSD.
BNA	A.15	EPA SAMPLE NUMBER IS MISSING FOR EXQ02MSD ON RIC (P.1484)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR

ORGANICS
CONTRACT COMPLIANCE SCREENING (CCS) RESULTS

THIS REPORT IS A SUMMARY OF THE SCREENERS COMMENTS REGARDING THE TECHNICAL AND MANUAL DEFECTS FOUND IN THIS SDG.

LABORATORY CODE : ENCOT
REGION : 5
DATE MAILED :

CASE: 21170
SDG_NO. : EXQ02
SCREENER : SS/SC

DATE RECEIVED : 09DEC93

FRACTION	CRITERION	COMMENTS
PEST	*	TCX RT IS MISSING FOR PIBLK1 (P.1609) ON COLUMN DB-1701.
PEST	G.9	STD AROCLOR - 1260 ANALYSES (WITHIN 72 HOUR) IS MISSING FOR

EXQ02 & EXQ03 SAMPLES.

O'Hara Property

RESUBMITTED DATA RECEIVED AFTER 10 DAYS RESOLUTION PERIOD. CCS WILL RETAIN THIS DATA ON FILE, HOWEVER IT WILL NOT BE SCREENED AS IT WILL NOT AFFECT PAYMENT.

LAB : EncoT
CASE: 27170
SDG : EX002

10 DAY RESOLUTION PERIOD END: 12/29/93
RESUBMISSION RECEIVED: 12/31/93
THIS NOTICE MAILED ON: JAN 04 1994

O'Hara Property

RECEIVED

JAN 03 1994

U.S. EPA, CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

COVER SHEET

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE SCREENING (CCS)

Response To: (Check One) __X__ Organic CCS

_____ Inorganic CCS

Response materials should be sent to the attention of the CCS Coordinator.

Labcode: ENCOT

Response Date: December 30, 1993

Date Screening Results Received at Laboratory: December 20, 1993

EPA Contract No. 68-D2-0012

Case No. 21170

SDG No. EXQ02

Sample Nos.*

EXQ02	EXQ12
EXQ02 MSD	EXQ12 MS
EXQ03	EXQ12 MSD
EXQ03 DL	EXQ14
EXQ03 MS	EXQ15
EXQ03 MSD	

*Only list sample numbers that require reconciliation.

This form is used to identify materials sent in response to results of Contract Compliance Screening (CCS). A separate form must accompany the response for each SDG.

Please indicate (on the attached continuation form) which fractions and/or which criteria correspond with your resubmission. Response materials sent to CCS should also be copied to the Region and to EMSL/LV, each with this blue Cover Sheet.

ENVIRONMENTAL
CONTROL
TECHNOLOGY
CORPORATION

3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48108
313/761-1389

December 30, 1993

RECEIVED
JAN 03 1994
U.S. EPA, CENTRAL REGIONAL LA
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Ms. Nazey Malek
Sample Management Office (SMO)
Viar & Company
300 North Lee Street
Alexandria, Virginia 22314

RE: CCS Screen Case
21170, SDG EXQ02

Dear Ms. Malek,

Enclosed is ENCOTEC's response to the CCS Screen for Case 21170, SDG EXQ02. If you have any questions regarding this case or any other, please contact me.

Very Truly Yours,

ENVIRONMENTAL CONTROL TECHNOLOGY CORPORATION

Thomas H. Marshall

Thomas H. Marshall
CLP Project Manager

THM/rej

Enclosure

cc: Region V ✓
EMSL-LV

75100

Laboratory Response to Results of CCS

Criterion	Comments
A.I.11	Samples EXQ03 MS and EXQ01 MSD were analyzed 14 days outside of holding time.
E.13.2.1	Mass Listing corrected to show proper analysis date for samples EXQ03 DL, EXQ03 MS, EXQ03 MSD, EXQ12, EXQ12 MS, EXQ12 MSD, EXQ14, and EXQ15.
AI.15.1.1	Chromatogram of EXQ01 MSD corrected to show proper EPA indentification.
H.2.2.1-6	Forms 8C submitted for samples EXQ03, EXQ12, EXQ12 MS, and EXQ12 MSD.
TR.1	No traffic report was received for samples EXQ14 and EXQ15. Please see enclosed other records.
*VOA	EXQ03 DLMS and EXQ03 DLMSD are illegal EPA names. Please see exhibit B of OLM01.8.
*PEST	TCX not found for PIBLKL1.
G.9	Aroclor 1260 standard not analyzed within 72 hours.

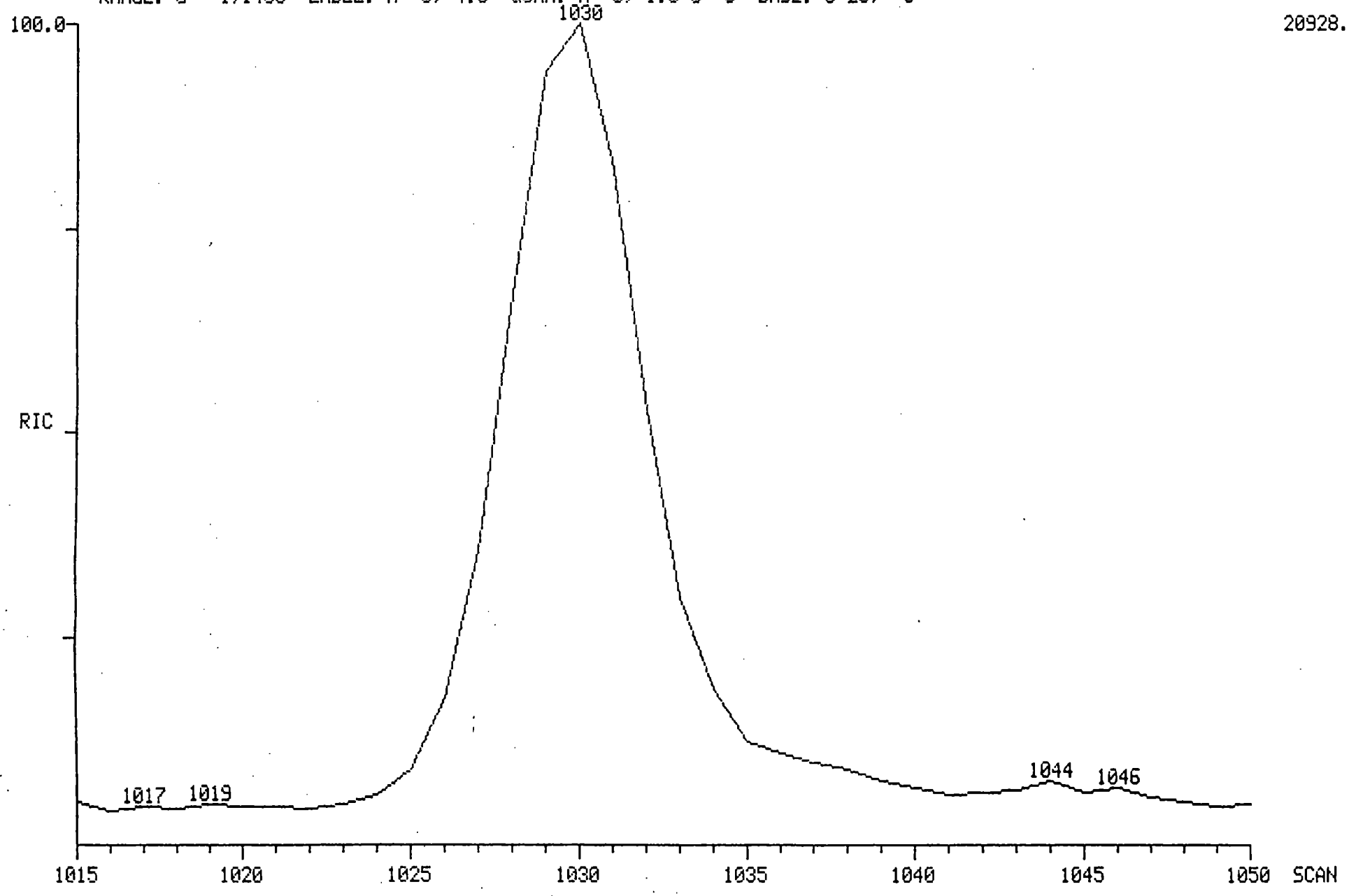
11/13/93 T HM 12/28/93

ass List Data: BFB1113Z #1030 Base m/z: 95
/13/93 7:01:00 + 17:10 Cali: CALTAB # 3 RIC: 18528.
mple: BFB TUNE
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#1029 to #1031 averaged - #1015

36		0.00	0.	Minima	Min	Inten:	7.
298				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
36?	S	0.68	26.	96	S	7.62	292.
37?	S	4.65	178.	99	S	0.26	10.
38?	S	4.96	190.	100	S	0.18	7.
39?	S	2.71	104.	104	S	0.34	13.
40?	S	0.29	11.	106	S	0.42	16.
41?	S	0.68	26.	111	S	0.29	11.
42?	S	0.29	11.	116	S	0.73	28.
43?	S	0.44	17.	117	S	0.68	26.
45?	S	1.96	75.	118	S	0.31	12.
47?	S	2.24	86.	119	S	0.84	32.
48?	S	0.89	34.	124	S	0.31	12.
49?	S	4.07	156.	126	S	0.29	11.
50?	S	17.85	684.	127	S	0.18	7.
51?	S	5.56	213.	128	S	0.84	32.
52?	S	0.86	33.	129	S	0.31	12.
54?	S	0.29	11.	130	S	0.47	18.
55?	S	0.29	11.	131	S	0.29	11.
56?	S	1.72	66.	132	S	0.31	12.
57?	S	3.50	134.	136	S	0.57	22.
60?	S	0.73	28.	141	S	1.25	48.
61?	S	3.81	146.	143	S	1.59	61.
62?	S	3.84	147.	146	S	0.44	17.
63?	S	3.34	128.	152	S	0.29	11.
64?	S	1.02	39.	153	S	0.29	11.
67?	S	0.44	17.	158	S	0.44	17.
68?	S	8.56	328.	159	S	0.42	16.
69	S	8.69	333.	164	S	0.18	7.
70	S	1.88	72.	170	S	0.29	11.
72	S	0.81	31.	171	S	0.18	7.
73	S	3.99	153.	173	S	1.10	42.
74	S	12.92	495.	174	S	82.57	3164.
75	S	37.37	1432.	175	S	6.29	241.
76	S	4.04	155	176	S	81.00	3104.
77	S	0.50	19.	177	S	6.18	237.
78	S	0.37	14.	178	S	0.60	23.
79	S	1.88	72.	207	S	0.18	7.
80	S	1.54	59.	221	S	0.29	11.
81	S	2.14	82.	226	S	0.18	7.
82	S	0.78	30.	235	S	0.29	11.
85	S	0.18	7.	237	S	0.26	10.
86	S	0.29	11.	257	S	0.26	10.
87	S	5.25	201.	262	S	0.44	17.
88	S	4.46	171.	266?	S	0.31	12.
89	S	0.57	22.	270?	S	0.29	11.
90	S	0.39	15.	272?	S	0.23	9.
91	S	0.44	17.	273?	S	0.26	10.
92	S	2.84	109.	278?	S	0.26	10.
93	S	4.04	155.	283?	S	0.42	16.
94	S	10.52	403.	289?	S	0.26	10.
95	S	100.00	3832.	297?	S	0.26	10.

RIC
11/13/93 7:01:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

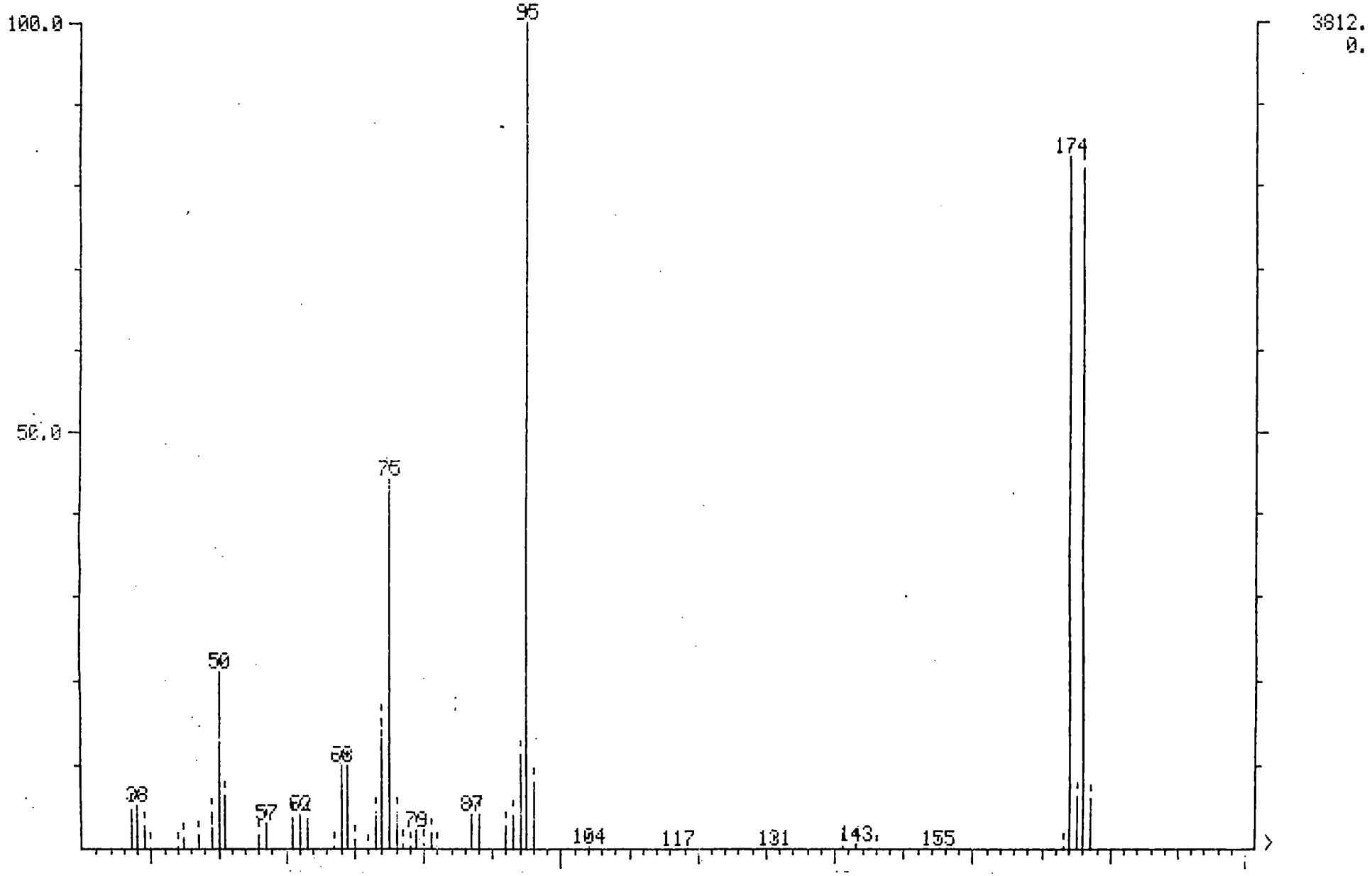
DATA: BFB11132 #1029 SCANS 1015 TO 1050
CALI: CALTAB #3



MASS SPECTRUM
11/13/93 10:34:00 + 3:12
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#191 TO #193 AVERAGED - #180

DATA: BFB111321 #192
CALI: CALTAB #3

BASE M/Z: 95
RIC: 18048.



11/13/93 T Ahy 12/28/93

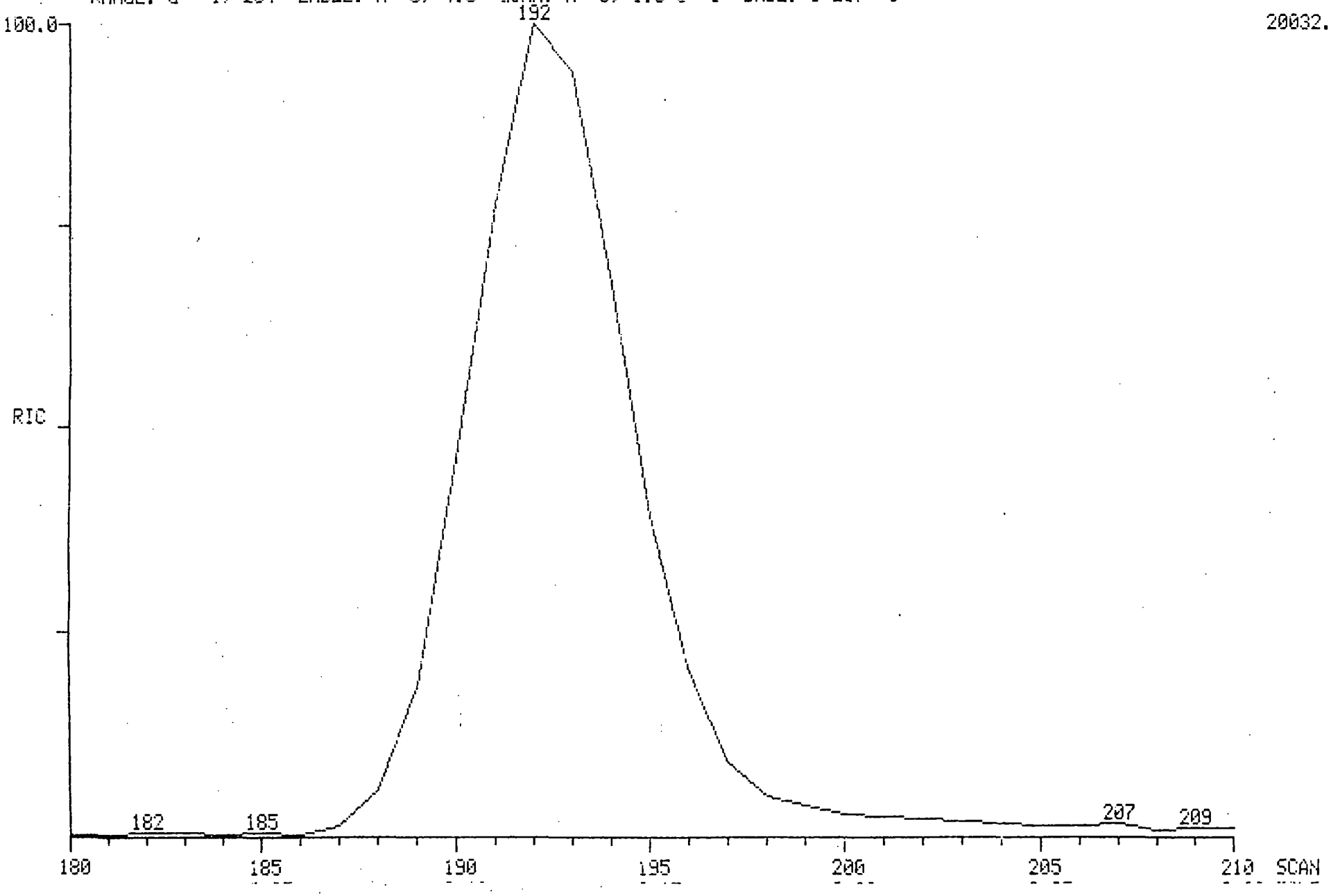
ass List Data: BFB1113Z1 # 192 Base m/z: 95
1~~/13/93~~ 10:34:00 + 3:12 Cali: CALTAB # 3 RIC: 18048.
ample: BFB TUNE
onds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
#191 to #193 averaged - #180

37 0.00 0. Minima Min Inten: 0.
255 Maxima # 0

Mass		% RA	Inten.
37?	S	4.56	174.
38?	S	5.17	197.
39?	S	2.78	106.
40?	S	0.34	13.
44?	S	0.29	11.
45?	S	1.26	48.
47?	S	1.52	58.
49?	S	4.46	170.
50?	S	21.07	803.
51?	S	6.45	246.
56?	S	1.52	58.
57?	S	2.99	114.
61?	S	3.78	144.
62?	S	4.22	161.
63?	S	3.46	132.
67?	S	0.16	6.
68?	S	10.05	383.
69	S	10.05	383.
70	S	0.97	37.
72	S	0.13	5.
73	S	4.41	168.
74	S	15.45	589.
75	S	44.28	1688.
76	S	4.38	167.
77	S	0.47	18.
78	S	0.16	6.
79	S	2.28	87.
80	S	0.52	20.
81	S	1.89	72.
82	S	0.18	7.
87	S	4.25	162.
88	S	4.01	153.
92	S	2.70	103.
93	S	4.17	159.
94	S	11.36	433.
95	S	100.00	3812.
96	S	7.95	303.
104	S	0.16	6.
117	S	0.13	5.
131	S	0.13	5.
141	S	0.34	13.
143	S	0.66	25.
146	S	0.13	5.
155	S	0.13	5.
173	S	0.18	7.
174	S	83.63	3188.
175	S	6.35	242.
176	S	82.27	3136.
177	S	6.09	232.
255	S	0.16	6.

RIC
11/13/93 10:34:00
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1, 284 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

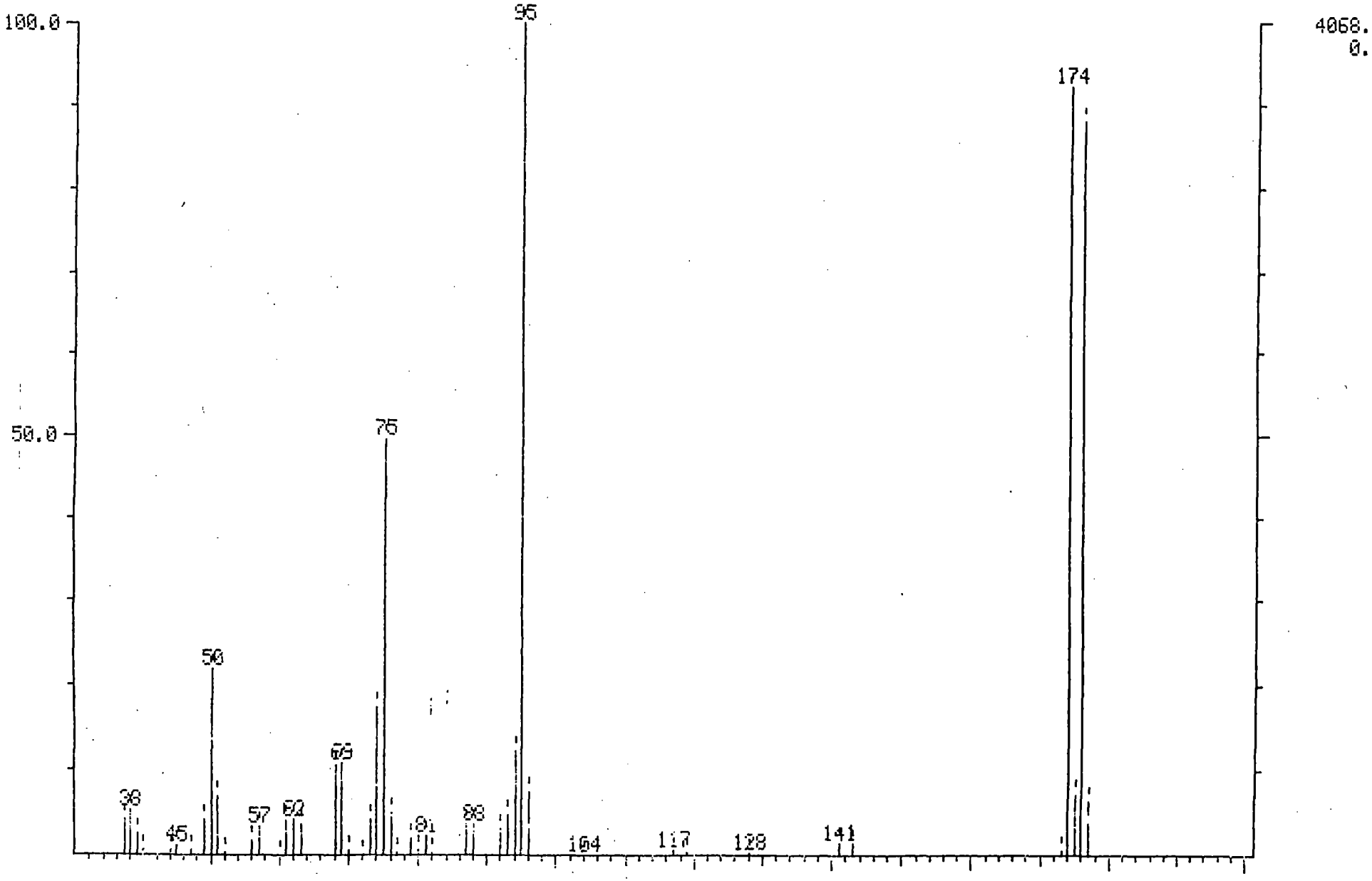
DATA: BFB1113Z1 #1S1 SCANS 180 TO 210
CALI: CALTAB #3



MASS SPECTRUM
11/24/93 8:47:00 + 17:12
SAMPLE: BFB TUNE
CONDS.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
TEMP: 130 DEG. C
#1031 TO #1033 AVERAGED - #1019

DATA: BFB1124Z #1032
CALI: CALTAB #3

BASE M/Z: 95
RIC: 20416.



11/24/93 T HM 12/28/93

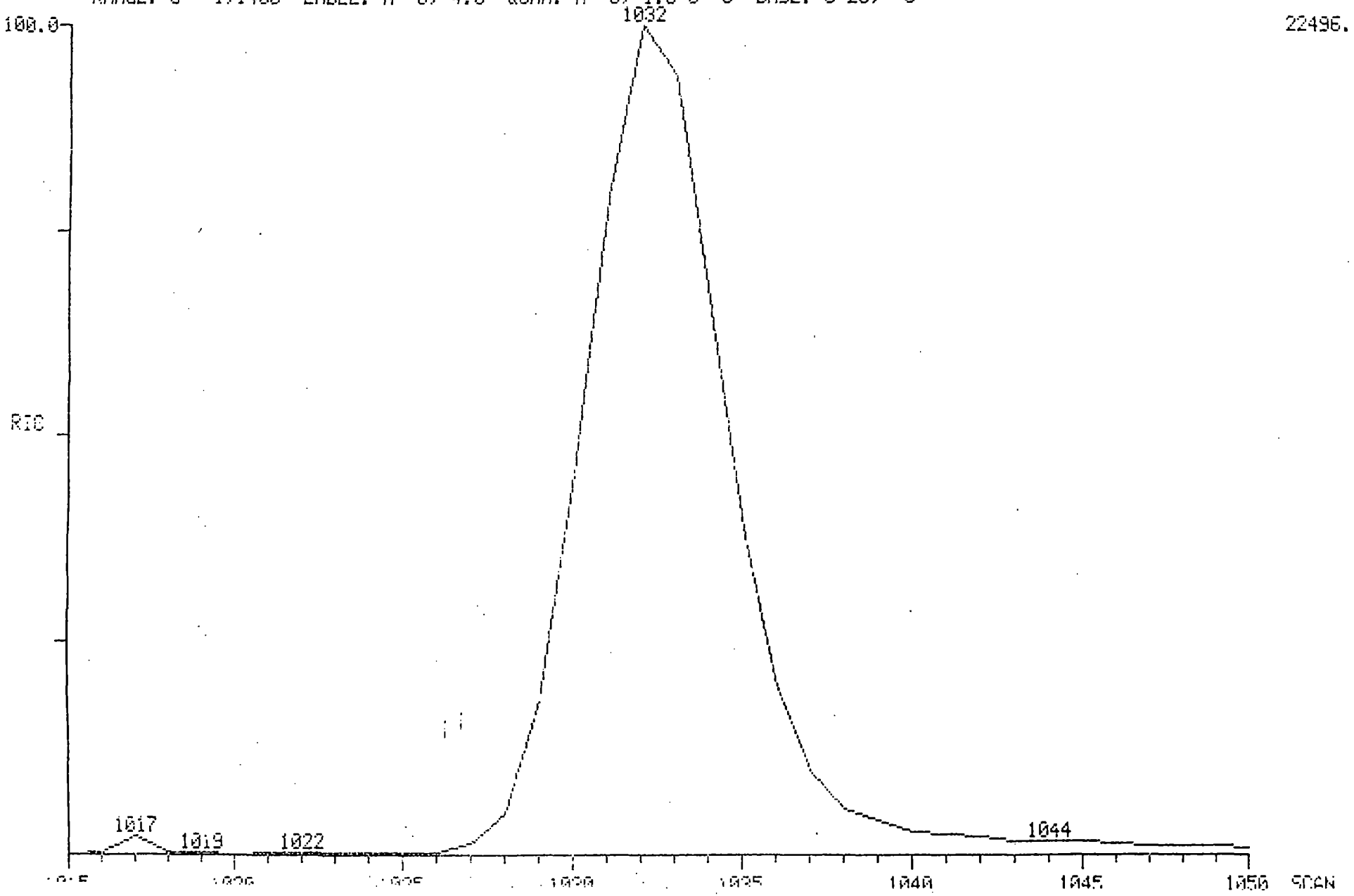
ss List Date: BFB1124Z #1032 Base m/z: 95
~~/24/93~~ 8:47:00 + 17:12 Cali: CALTAB # 3 RIC: 20416.
mple: BFB TUNE
nds.: (/BF(50 F 3-> 225@ 8/MIN)INST. 026):
1031 to #1033 averaged - #1019

37 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

ass		% RA	Inten.
37?	S	4.13	168.
38?	S	5.16	210.
39?	S	2.58	105.
40?	S	0.59	24.
44?	S	0.64	26.
45?	S	1.20	49.
47?	S	0.61	25.
49?	S	4.08	166.
50?	S	21.90	891.
51?	S	7.03	286.
52?	S	0.27	11.
56?	S	1.65	67.
57?	S	3.24	132.
60?	S	0.12	5.
61?	S	4.11	167.
62?	S	4.11	167.
63?	S	3.71	151.
68?	S	10.59	431.
69	S	10.77	438.
70	S	0.64	26.
72	S	0.12	5.
73	S	4.11	167.
74	S	17.48	711.
75	S	49.61	2018.
76	S	4.87	198.
77	S	0.25	10.
79	S	1.99	81.
80	S	0.49	20.
81	S	2.31	94.
82	S	0.20	8.
87	S	3.56	145.
88	S	3.66	149.
92	S	3.02	123.
93	S	4.77	194.
94	S	12.12	493.
95	S	100.00	4068.
96	S	7.57	308.
104	S	0.12	5.
117	S	0.64	26.
119	S	0.39	16.
128	S	0.17	7.
141	S	1.35	55.
143	S	1.28	52.
173	S	0.47	19.
174	S	92.33	3756.
175	S	7.25	295.
176	S	88.20	3588.
177	S	6.42	261.

RIC
11/24/93 8:47:00
SAMPLE: BFB TUNE
CONDS.: (/8F(50 F 3-> 225@ 8/MIN)INST. 026):
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB11242 #1031 SCANS 1015 TO 1050
CALI: CALTAB #3

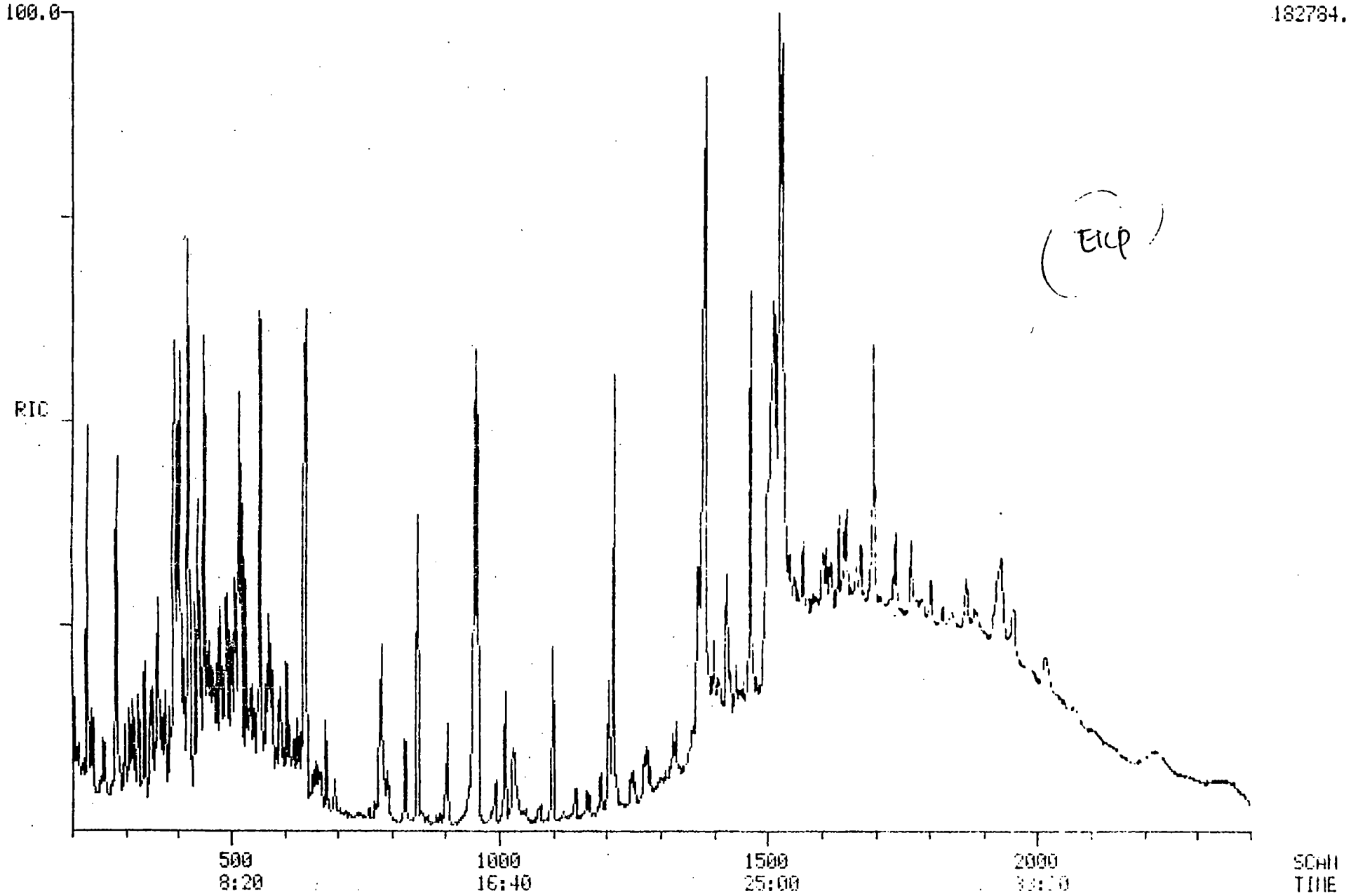


1484

RIC
12/02/93 21:25:00
SAMPLE: ~~EXQ02MSDRE~~ EXQ02 MSD TAM 12/28/93
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ02BDR #1
CALI: EXQ02BDR #3

SCANS 200 TO 2400



8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50BA1203 Date Analyzed: 12/03/93

Instrument ID: 001 Time Analyzed: 1616

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	67844	20.24	66731	28.27	51617	32.61
	UPPER LIMIT	135688	20.74	133462	28.77	103234	33.11
	LOWER LIMIT	33922	19.74	33366	27.77	25808	32.11
	EPA SAMPLE NO.						
01	EXQ03	65462	20.19	63504	28.24	37169	32.57

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2 3/90

1931 T Hu 12/30/93

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab File ID (Standard): 50BY1124Y Date Analyzed: 11/24/93

Instrument ID: 025 Time Analyzed: 1141

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	62831	22.69	58877	30.42	45748	33.79
	UPPER LIMIT	125662	23.19	117754	30.92	91496	34.29
	LOWER LIMIT	31416	22.19	29438	29.92	22874	33.29
	EPA SAMPLE NO.						
01	EXQ12	55505	22.67	50065	30.41	47926	33.79
02	EXQ12MS	53079	22.67	49915	30.39	50189	33.77
03	EXQ12MSD	53621	22.69	49000	30.41	44973	33.79
04	SBLK01	60084	22.62	55253	30.34	54344	33.72

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2 3/90

1932 + AKM 12/30/93

X Other Records

CASE # 21170
SDG # EXQ02

In Reference to Case No(s):
21170

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 11-18-93

Laboratory Name: ENCOTEC

Lab Contact: ROB CURRY

Region: V

Regional Contact: JANE VON HOFEN

Call Initiated By: X Laboratory ___ Region

In reference to data for the following sample number(s):

EXQ14

EXQ15

Summary of Questions/Issues Discussed:

* SAMPLES WERE RECEIVED AS TRIPBLANKS
* NOT LISTED ON TR.
* NO TAGS ON SAMPLES

Summary of Resolution:

* SAMPLER SENT LETTER TO GIVE TRIPBLANKS ID'S
* SMO SENT MIG TO INFORM THAT THE SAMPLES WERE NOT ON TR

Signature

11-18-93
Date

ibution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

SMO ID	SAMPLE DESCRIPTION	CONCENTRATION	ANALYSIS	TAG #'S	SAMPLE DATE
EXQ14	RINSATE	LOW	VOA	NONE	NONE
EXQ15	RINSATE	LOW	VOA	NONE	NONE

REGION V
CASE 21170
REC'D 11-4-93

SEE M16 FOR OTHER RELAVENT INFORMATION

NOV 10 1993

Date: November 8, 1993
To: ENCOTEC Labs
From: Peter Sorensen
Re: assignment of sample numbers to organic trip blanks

On our sampling event on November 2 and 3 at the O'Hara Property (Case # 21170) we omitted giving the trip blanks a sampling number. On November 8, we assigned the trip blanks sampling numbers and reported them to Jane VonHoffen. The organic trip blank numbers assigned were EXQ14 and EXQ15.

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

S C R E E N I N G P A C K A G E
S U M M A R Y I N F O R M A T I O N

== OLM01.8 VER. 5 ==

SDG:	EXQ02
CASE:	21170
LAB:	ENCOT
CONTRACT:	68-D2-0012
REGION:	5
DRD:	12/09/93
SDG RECEIPT DATE:	11/04/93
FORMAT:	AGENCY STANDARD
SCREEN DATE:	12/14/93
MAIL DATE 1:	12/16/93
SCREENER:	SS/SC

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

MAINFRAME / PC DISCREPANCY LIST
OLM01.8 VERSION 5

PCCCS OLM01.8 VERSION 5 WAS RELEASED ON JULY 15, 1993.

IF YOUR SITE HAS NOT RECEIVED A COPY PLEASE CALL USER SUPPORT AT 703-684-9025.

NO.	DESCRIPTION OF DISCREPANCY	
1	ON TUNE DATA CHECKS CCS IS COMPARING VALUES TO 2 DECIMAL PLACES RATHER THAN THE REQUIRED 1 DECIMAL PLACE. THIS WAS CAUSING INVALID DEFECTS (CODES 600, 630, 650, 670, 760, 800, AND 830) TO BE GENERATED.	
	STATUS	LAB ACTION
	MAINFRAME CCS PROGRAMS WERE MODIFIED 09AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT REPORTED VALUES ARE WITHIN REQUIRED QC LIMITS.

NO.	DESCRIPTION OF DISCREPANCY	
2	SOME SAMPLES WERE BEING CODED AS HAVING ASSOCIATED DATA MISSING FOR GPC AND FLORISIL CLEAN-UP DUE TO DISCREPANT LAB SAMPLE IDS WHICH PREVENTED CCS FROM PROPERLY MATCHING DATA. THIS WAS CAUSING INVALID DEFECTS (CODE 381) TO BE GENERATED.	
	STATUS	LAB ACTION
	MAINFRAME CCS PROGRAMS WERE MODIFIED 09AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT REQUIRED GPC AND FLORISIL DATA IS PRESENT.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
3	SOME PESTICIDE RUNS WERE BEING CODED AS HAVING TOO MANY INDIVIDUAL MIXTURES IN THE INITIAL CALIBRATION SEQUENCE. THIS CAUSED INVALID DEFECTS (CODE 1540) TO BE GENERATED.	MAINFRAME CCS PROGRAMS WERE MODIFIED 09AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT A PROPER INITIAL CALIBRATION SEQUENCE WAS RUN.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
4	ANALYTES WITH BOTH A U-FLAG AND A USER DEFINED FLAG WERE TREATED DIFFERENTLY THAN ANALYTES WITH JUST A U-FLAG. THIS WAS CAUSING INVALID DEFECTS (CODE 1070) TO BE GENERATED.	MAINFRAME CCS PROGRAMS WERE MODIFIED 19AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT COMPOUNDS QUALIFIED "U" HAVE THE PROPER QUANTITATION LIMITS.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
5	SAMPLES CHOSEN FOR MATRIX SPIKING WERE INCORRECTLY CODED FOR "MISSING REANALYSIS/DILUTION DUE TO SMC RECOVERIES OUTSIDE QC LIMITS." THIS OCCURED WHEN THAT SAMPLE AND ITS ASSOCIATED MS/MSD DID NOT SHOW THE SAME PATTERN OF RECOVERY ON A SURROGATE-BY-SURROGATE BASIS. THIS WAS CAUSING INVALID DEFECTS (CODE 13) TO BE GENERATED.	MAINFRAME CCS PROGRAMS WERE MODIFIED 19AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT REQUIRED REANALYSES ARE PERFORMED.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
6	LABS WERE INCLUDING EXTRANEOUS COMPOUNDS ON THE INDA AND INDB SAMPLES. THIS WAS CAUSING INVALID DEFECTS (CODE 1141) TO BE GENERATED.	MAINFRAME CCS PROGRAMS WERE MODIFIED 30AUG93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT DEFECTS APPLY TO COMPUNDS BELONGING TO THE PROPER INDIVIDUAL MIXTURE.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
7	SAMPLES WITH DILUTIONS GREATER THAN ONE WERE SOMETIMES INCORRECTLY CODED FOR HAVING SURROGATE RECOVERIES OUTSIDE THE QC LIMITS (CODE 13).	MAINFRAME CCS PROGRAMS WERE MODIFIED 07SEP93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	IGNORE SURROGATE RECOVERY DEFECTS ON SAMPLES WITH A DILUTION GREATER THAN ONE.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
8	DEFECTS FROM PESTICIDE INITIAL AND CONTINUING CALIBRATIONS ARE SOMETIMES NOT ASSOCIATED TO SAMPLES IN THAT RUN. THIS COULD HAPPEN IF THE INITIAL CALIBRATION SEQUENCE WAS RUN OVER TWO DAYS (THROUGH MIDNIGHT).	MAINFRAME CCS PROGRAMS WERE MODIFIED 23SEP93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT INITIAL AND CONTINUING CALIBRATIONS ARE WITHIN QC LIMITS.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
9	UNDER CERTAIN CURCUMSTANCES PEST RUNS WITHOUT RESOLUTION CHECKS WERE NOT CODED AS HAVING AN INVALID INITIAL CALIBRATION SEQUENCE.	MAINFRAME CCS PROGRAMS WERE MODIFIED 30SEP93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT A VALID INITIAL CALIBRATION SEQUENCE HAS BEEN RUN.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
10	SOME SAMPLES MISSING METHOD BLANK INFORMATION WERE NOT FLAGGED WITH DEFECTS. THIS HAPPENED WHEN SAMPLES WITHOUT MB INFORMATION ON THEIR TYPE 27 RECORD FOLLOWED SAMPLES WITHIN THE SAME RUN WHICH HAD THEIR MB INFO. THE DATA FROM THE EARLIER SAMPLES WAS IMPROPERLY LINKED TO THE LATER SAMPLES.	MAINFRAME CCS PROGRAMS WERE MODIFIED 28SEP93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT TYPE 27 METHOD BLANK INFORMATION IS PRESENT.

NO.	DESCRIPTION OF DISCREPANCY	STATUS	LAB ACTION
11	VALID REANALYSES WITH ANALYTES OUTSIDE THE CALIBRATION RANGE BUT WITHOUT THE REQUIRED DILUTION WERE NOT BEING CODED.	MAINFRAME CCS PROGRAMS WERE MODIFIED 05OCT93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT ALL REQUIRED DILUTIONS ARE RUN.

NO.	DESCRIPTION OF DISCREPANCY		
12	IF AN ANALYTE HAD A B-FLAG ON THE METHOD BLANK, ON ALL ASSOCIATED SAMPLES THAT ANALYTE WAS CHECKED FOR A B-FLAG. IF THE B-FLAG WAS MISSING FROM THE SAMPLE A DEFECT WAS CODED. NO ALLOWANCE WAS MADE FOR ANALYTES WITH U-FLAGS.		
	STATUS	LAB ACTION	
	MAINFRAME CCS PROGRAMS WERE MODIFIED 06OCT93. PCCCS WILL BE CORRECTED IN NEXT RELEASE (OLM01.8 VERSION 6).	VERIFY THAT ALL ANALYTES HAVE NECESSARY QUALIFIERS.	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS BY SAMPLE AND CRITERION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	HOLDING TIMES					TECHNICAL/MANUAL DEFECTS										
SAMPLE	VOA AN	BNA EX	BNA AN	PES EX	PES AN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	ANSEQ	GPCFLO	PHITS	MANUAL
EXQ02	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	1
EXQ02MS	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ02MSD	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	1
EXQ03	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	7
EXQ03DL	Y	+	NA +	+	NA	+	+	+	+	+	+	+	+	+	+	+	1
EXQ03MS	14	+	NA +	+	NA	1 +	+	+	+	+	+	+	+	+	+	+	1
EXQ03MSD	14	+	NA +	+	NA	1 +	+	+	+	+	+	+	+	+	+	+	1
EXQ04	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ05	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ06	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ07	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ07DL	NA	+	Y +	+	NA	+	+	+	+	+	+	+	+	+	+	+	
EXQ08	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ09	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ10	Y	+	Y +	+	Y	+	+	+	+	+	+	+	+	+	+	+	
EXQ10RE	NA		Y		NA												

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS BY SAMPLE AND CRITERION

ASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
AB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
OG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

	HOLDING TIMES					TECHNICAL/MANUAL DEFECTS										
SAMPLE	VOA AN	BNA EX	BNA AN	PES EX	PES AN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	AN SEQ	GPCFLO	PHITS	MANUAL
EXQ11	Y		Y		Y												
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ12	Y		Y		Y												7
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ12MS	Y		Y		Y												7
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ12MSD	Y		Y		Y												7
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ14	Y		NA		NA												1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
EXQ15	Y		NA		NA												1
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR VOLATILE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS								
SAMPLE	VOA AN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ02	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ02MS	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ02MSD	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ03	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ03DL	Y									1
	+	+	+	+	+	+	+	+	+	+
EXQ03MS	14	1								1
	+	+	+	+	+	+	+	+	+	+
EXQ03MSD	14	1								1
	+	+	+	+	+	+	+	+	+	+
EXQ04	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ05	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ06	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ07	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ07DL	NA									
	+	+	+	+	+	+	+	+	+	+
EXQ08	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ09	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ10	Y									
	+	+	+	+	+	+	+	+	+	+
EXQ10RE	NA									

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR VOLATILE FRACTION

ASE: 21170 CONTRACT: 68-D2-0012
AB CODE: ENCOT
OG NO: EXQ02

SAMPLES: 22
SAS NO.:
REGION: 5

SCREENER: SS/SC

DATE RECEIVED: 12/09/93
DATE SCREENED: 12/14/93
MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS									
SAMPLE	VOAN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT	CONTC	INTSTD		MANUAL
EXQ11	Y										
	+	+	+	+	+	+	+	+	+	+	
EXQ12	Y										1
	+	+	+	+	+	+	+	+	+	+	
EXQ12MS	Y										1
	+	+	+	+	+	+	+	+	+	+	
EXQ12MSD	Y										1
	+	+	+	+	+	+	+	+	+	+	
EXQ14	Y										1
	+	+	+	+	+	+	+	+	+	+	
EXQ15	Y										1
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	
	+	+	+	+	+	+	+	+	+	+	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR SEMI-VOLATILE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

			TECHNICAL/MANUAL DEFECTS								
SAMPLE	BNA EX	BNA AN	DATA	SUR	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ02		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ02MS		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ02MSD		Y									1
	+		+	+	+	+	+	+	+	+	+
EXQ03		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ03DL		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ03MS		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ03MSD		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ04		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ05		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ06		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ07		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ07DL		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ08		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ09		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ10		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ10RE		Y									

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR SEMI-VOLATILE FRACTION

SE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
B CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
G NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS									
SAMPLE	BNA EX	BNA AN	DATA	SUR R	MS/MSD	BLANK	TUNE	INIT C	CONT C	INTSTD	MANUAL
EXQ11		Y									
	+		+	+	+	+	+	+	+	+	+
EXQ12		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ12MS		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ12MSD		Y									6
	+		+	+	+	+	+	+	+	+	+
EXQ14		NA									
	+		+	+	+	+	+	+	+	+	+
EXQ15		NA									
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR PESTICIDE FRACTION

EXPLANATORY NOTES

THIS REPORT SUMMARIZES BY SAMPLE THE TECHNICAL DEFECTS NOTED ON THE DISKETTE AND HARDCOPY DATA PACKAGE. THE "AN" ("ANALYZED") COLUMNS SHOW WHETHER THE SAMPLE WAS (Y) OR WAS NOT (NA) ANALYZED. NUMBERS IN THE "AN" OR "EX" ("EXTRACTION") COLUMNS INDICATE THE DAYS BY WHICH THE SAMPLE VIOLATED THE HOLDING TIME. NUMBERS IN THE "TECHNICAL/MANUAL DEFECTS" COLUMNS SHOW THE NUMBER OF NON-COMPLIANCE DEFECTS NOTED FOR A SAMPLE WITH REFERENCE TO A SPECIFIC CRITERION.

CASE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
LAB CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
SDG NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

			TECHNICAL/MANUAL DEFECTS									
SAMPLE	PES EX	PES AN	DATA	SUR	MS/MSD	BLANK	INIT C	CONT C	AN SEQ	GPCFLO	PHITS	MANUAL
EXQ02		Y										1
	+		+	+	+	+	+	+	+	+	+	+
EXQ02MS		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ02MSD		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ03		Y										1
	+		+	+	+	+	+	+	+	+	+	+
EXQ03DL		NA										
	+		+	+	+	+	+	+	+	+	+	+
EXQ03MS		NA										
	+		+	+	+	+	+	+	+	+	+	+
EXQ03MSD		NA										
	+		+	+	+	+	+	+	+	+	+	+
EXQ04		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ05		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ06		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ07		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ07DL		NA										
	+		+	+	+	+	+	+	+	+	+	+
EXQ08		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ09		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ10		Y										
	+		+	+	+	+	+	+	+	+	+	+
EXQ10RE		NA										

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

DEFECT COUNTS FOR PESTICIDE FRACTION

SE: 21170 CONTRACT: 68-D2-0012 SAMPLES: 22 DATE RECEIVED: 12/09/93
B CODE: ENCOT SAS NO.: SCREENER: SS/SC DATE SCREENED: 12/14/93
G NO: EXQ02 REGION: 5 MAIL DATE (1): 12/16/93

		TECHNICAL/MANUAL DEFECTS									
SAMPLE	PES EX	PES AN	DATA	SUR R	MS/MSD	BLANK		INIT C	CONT C	AN SEQ	GPCFLO	PHITS	MANUAL
EXQ11		Y											
	+		+	+	+	+	+	+	+	+	+	+	+
EXQ12		Y											
	+		+	+	+	+	+	+	+	+	+	+	+
EXQ12MS		Y											
	+		+	+	+	+	+	+	+	+	+	+	+
EXQ12MSD		Y											
	+		+	+	+	+	+	+	+	+	+	+	+
EXQ14		NA											
	+		+	+	+	+	+	+	+	+	+	+	+
EXQ15		NA											
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+
	+		+	+	+	+	+	+	+	+	+	+	+

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TECHNICAL DEFECT FREQUENCY REPORT

THIS REPORT PROVIDES A STATISTICAL SUMMARY OF THE TECHNICAL DEFECTS PRESENT IN THIS SDG.

LAB: ENCOT SDG: EXQ02

FRACTION	CRITERIA	NUMBER OF DEFECTS	PERCENT OF TOTAL DEFECTS	DEFECT MESSAGE
VOL	AI.11	2	100.0	EXCEEDING HOLDING TIME BY
		2	100.0	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

== FILE SKELETON ==
LAB: ENCOT SDG: EXQ02

FRACTION	SAMPLE	QC	SQ	LEVEL	MATRIX	DILUTION	ANALYSIS DATE	ANALYSIS TIME	LAB FILE/ SAMP_ID	COL_ID	INSTID	MB_FID	SB_FID	REC_REF	RUN
VOA		MNC			0					CAP	026			00003289E	1
VOA		LPC			0		93/11/11	08:43	BFB1111Z	CAP	026			00040B3B1	1
VOA	VSTD200	CLM			0		93/11/11	09:11	200VZ1111	CAP	026			00044048D	1
VOA	VSTD100	CLM			0		93/11/11	09:43	100VZ1111	CAP	026			00083D4D4	1
VOA	VSTD050	CLM			0		93/11/11	10:15	50VZ1111	CAP	026			00122A4E4	1
VOA	VSTD020	CLM			0		93/11/11	10:48	20VZ1111	CAP	026			001616EC2	1
VOA	VSTD010	CLM			0		93/11/11	11:25	10VZ1111	CAP	026			00200380C	1
VOA		LPC			0		93/11/11	13:27	BFB1111Z1	CAP	026			00239FF11	1
VOA	VSTD050	CLC			0		93/11/11	13:33	50VZ1111Z	CAP	026			002435014	1
VOA	VBLKKZ	LRB		LOW	SOIL	1.00	93/11/11	14:47	VSB1111Z	CAP	026			002889482	1
VOA	EXQ02	LSD		LOW	SOIL	1.00	93/11/11	15:53	EXQ02V	CAP	026	VSB1111Z		00334B74A	1
VOA	EXQ02MS	LF1		LOW	SOIL	1.00	93/11/11	16:26	EXQ02VM	CAP	026	VSB1111Z		004102604	1
VOA	EXQ02MSD	LF2		LOW	SOIL	1.00	93/11/11	16:59	EXQ02VD	CAP	026	VSB1111Z		004565E6C	1
VOA	EXQ03			LOW	SOIL	1.00	93/11/11	17:32	EXQ03V	CAP	026	VSB1111Z		0050294CE	1
VOA	EXQ05			LOW	SOIL	1.00	93/11/11	18:39	EXQ05V	CAP	026	VSB1111Z		005781053	1
VOA	EXQ06			LOW	SOIL	1.00	93/11/11	19:11	EXQ06V	CAP	026	VSB1111Z		006243795	1
VOA	EXQ07			LOW	SOIL	1.00	93/11/11	19:45	EXQ07V	CAP	026	VSB1111Z		006705F1F	1
VOA	EXQ08			LOW	SOIL	1.00	93/11/11	20:18	EXQ08V	CAP	026	VSB1111Z		0071685FC	1
VOA	EXQ09			LOW	SOIL	1.00	93/11/11	20:51	EXQ09V	CAP	026	VSB1111Z		00762AD77	1
VOA	EXQ10			LOW	SOIL	1.00	93/11/11	21:25	EXQ10V	CAP	026	VSB1111Z		00808D564	1
VOA	EXQ11			LOW	SOIL	1.00	93/11/11	21:58	EXQ11V	CAP	026	VSB1111Z		00854FC49	1
VOA		LPC			0	1.00	93/11/12	09:04	BFB1112Z	CAP	026	VSB1111Z		0090021E4	1
VOA	VSTD050	CLC			0	1.00	93/11/12	09:17	50VZ1112	CAP	026	VSB1111Z		0090472A5	1
VOA	VBLKLZ	LRB		LOW	SOIL	1.00	93/11/12	10:22	VSB1112Z	CAP	026			00949B0C4	1
VOA	EXQ04			LOW	SOIL	1.00	93/11/12	10:54	EXQ04VR	CAP	026	VSB1112Z		00995D26A	1
VOA		MNC			0					CAP	026			00003289E	2
VOA		LPC			0		93/11/13	07:01	BFB1113Z	CAP	026			00040B31C	2
VOA	VSTD200	CLM			0		93/11/13	07:25	200VZ1113	CAP	026			0004404AF	2
VOA	VSTD100	CLM			0		93/11/13	07:57	100VZ1113	CAP	026			00083D4BB	2
VOA	VSTD050	CLM			0		93/11/13	08:30	50VZ1113	CAP	026			00122A4AA	2
VOA	VSTD020	CLM			0		93/11/13	09:01	20VZ1113	CAP	026			001616E45	2
VOA	VSTD010	CLM			0		93/11/13	09:33	10VZ1113	CAP	026			002003750	2
VOA		LPC			0		93/11/13	10:34	BFB1113Z1	CAP	026			00239FE44	2
VOA	VSTD050	CLC			0		93/11/13	10:41	50VZ1113Z	CAP	026			002434FFC	2
VOA	VBLKNZ	LRB		MED	SOIL	1.00	93/11/13	11:15	VMB1113Z	CAP	026			00288901A	2
VOA	VBLKMZ	LRB		LOW	WATER	1.00	93/11/13	11:47	VWB1113Z	CAP	026			00334C2D8	2
VOA	EXQ14			LOW	WATER	1.00	93/11/13	17:38	EXQ14V	CAP	026	VWB1113Z		00380DA99	2
VOA	EXQ12	LSD		LOW	WATER	1.00	93/11/13	18:10	EXQ12V	CAP	026	VWB1113Z		00426FA28	2
VOA	EXQ12MS	LF1		LOW	WATER	1.00	93/11/13	18:41	EXQ12VM	CAP	026	VWB1113Z		00472190B	2
VOA	EXQ12MSD	LF2		LOW	WATER	1.00	93/11/13	19:13	EXQ12VD	CAP	026	VWB1113Z		005184479	2
VOA	EXQ15			LOW	WATER	1.00	93/11/13	19:44	EXQ15V	CAP	026	VWB1113Z		005646DAF	2
VOA	EXQ03DL	LSD		MED	SOIL	5.00	93/11/13	20:47	EXQ03VR	CAP	026	VMB1113Z		006108D13	2
VOA		MNC			0					CAP	026			00003289E	3
VOA		LPC			0		93/11/24	08:47	BFB1124Z	CAP	026			00040B45B	3
VOA	VSTD200	CLM			0		93/11/24	09:28	200VZ1124	CAP	026			000440602	3
VOA	VSTD100	CLM			0		93/11/24	10:00	100VZ1124	CAP	026			00083D61D	3
VOA	VSTD050	CLM			0		93/11/24	10:41	50VZ1124	CAP	026			00122A619	3
VOA	VSTD020	CLM			0		93/11/24	11:08	20VZ1124	CAP	026			001616FB4	3
VOA	VSTD010	CLM			0		93/11/24	11:40	10VZ1124	CAP	026			0020038EE	3
VOA		LPC			0		93/11/28	11:01	BFB1128Z	CAP	026			00239FFD8	3

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

== FILE SKELETON ==
LAB: ENCOT SDG: EXQ02

FRACTION	SAMPLE	QC	SQ	LEVEL	MATRIX	DILUTION	ANALYSIS DATE	ANALYSIS TIME	LAB FILE/ SAMP_ID	COL_ID	INSTID	MB_FID	SB_FID	REC_REF	RUN
VOA	VSTD050	CLC			0		93/11/28	11:28	50VZ1128	CAP	026			002435196	3
VOA	VBLK2Z	LRB		MED	SOIL	1.00	93/11/28	12:33	VMB1128Z	CAP	026			002888F95	3
VOA	EXQ03MS	LF1		MED	SOIL	5.00	93/11/28	13:05	EXQ03VM	CAP	026	VMB1128Z		00334BF47	3
VOA	EXQ03MSD			MED	SOIL	5.00	93/11/28	13:37	EXQ03VD	CAP	026	VMB1128Z		00380027A	3
BNA		MNC			0						001			000021FBF	4
BNA	SSTD050	CLM			0		93/11/30	10:58	50BA1130		001			0007527F4	4
BNA		LPC			0		93/11/30	10:58	50BA1130		001			001509A91	4
BNA	SSTD020	CLM			0		93/11/30	11:44	20BA1130		001			00154F005	4
BNA	SSTD160	CLM			0		93/11/30	12:30	160BA1130		001			002295C65	4
BNA	SSTD120	CLM			0		93/11/30	13:16	120BA1130		001			00304DF54	4
BNA	SSTD080	CLM			0		93/11/30	14:02	80BA1130		001			003796119	4
BNA	SSTD050	CLC			0		93/12/01	18:17	50BA1201A1		001			00454D699	4
BNA		LPC			0		93/12/01	18:17	50BA1201A1		001			0054130CE	4
BNA	SBLK02	LRB		LOW	SOIL	1.00	93/12/01	19:03	LSB1111A		001			0054586CA	4
BNA	EXQ02	LSD		LOW	SOIL	1.00	93/12/01	19:49	EXQ02B		001	LSB1111A		00640E9FD	4
BNA	EXQ06			LOW	SOIL	1.00	93/12/01	20:34	EXQ06B		001	LSB1111A		00744B5B5	4
BNA	EXQ05			LOW	SOIL	1.00	93/12/01	21:20	EXQ05B		001	LSB1111A		00875A2B4	4
BNA	EXQ10			LOW	SOIL	1.00	93/12/02	00:24	EXQ10B		001	LSB1111A		01003699D	4
BNA	EXQ07			LOW	SOIL	1.00	93/12/02	01:10	EXQ07B		001	LSB1111A		01143C632	4
BNA		LPC			0	1.00	93/12/02	11:31	DFTPP1202A		001	LSB1111A		01292BAF6	4
BNA	SSTD050	CLC			0	1.00	93/12/02	12:13	50BA1202		001	LSB1111A		01296104B	4
BNA	EXQ04			LOW	SOIL	1.00	93/12/02	16:03	EXQ04BR		001	LSB1111A		013836DD5	4
BNA	EXQ09			LOW	SOIL	1.00	93/12/02	16:49	EXQ09BR		001	LSB1111A		015051217	4
BNA	EXQ10RE		REX	LOW	SOIL	1.00	93/12/02	17:35	EXQ10BR		001	LSB1111A		0161527FE	4
BNA	EXQ07DL		SRN	LOW	SOIL	2.00	93/12/02	18:21	EXQ07BR		001	LSB1111A		017430B00	4
BNA	EXQ08			LOW	SOIL	1.00	93/12/02	19:07	EXQ08BR		001	LSB1111A		01892FC80	4
BNA	EXQ11			LOW	SOIL	1.00	93/12/02	19:53	EXQ11BR		001	LSB1111A		02041DDB3	4
BNA	EXQ02MS	LF1		LOW	SOIL	1.00	93/12/02	20:39	EXQ02BMR		001	LSB1111A		02190C589	4
BNA	EXQ02MSD	LF2		LOW	SOIL	1.00	93/12/02	21:25	EXQ02BDR		001	LSB1111A		0227914EF	4
BNA	SSTD050	CLC			0	1.00	93/12/03	16:16	50BA1203		001	LSB1111A		02376F8E0	4
BNA		LPC			0	1.00	93/12/03	16:16	50BA1203		001			0246350D8	4
BNA	EXQ03			LOW	SOIL	50.0	93/12/03	17:02	EXQ03B		001	LSB1111A		02467A535	4
BNA		MNC			0						025			000021FC5	5
BNA		LPC			0		93/11/20	10:51	DFTPP1120Y		025			0007527C2	5
BNA	SSTD160	CLM			0		93/11/20	12:47	160BY1120		025			000797D4C	5
BNA	SSTD020	CLM			0		93/11/20	13:33	20BY1120		025			00154011B	5
BNA	SSTD120	CLM			0		93/11/20	14:19	120BY1120		025			002296E3D	5
BNA	SSTD080	CLM			0		93/11/20	15:05	80BY1120		025			00304F129	5
BNA	SSTD050	CLM			0		93/11/20	15:51	50BY1120		025			00379679D	5
BNA	SSTD050	CLC			0		93/11/24	11:41	50BY1124Y		025			00454DD46	5
BNA		LPC			0		93/11/24	11:41	50BY1124Y		025			0054138BD	5
BNA	SBLK01	LRB		LOW	WATER	1.00	93/11/24	17:28	LWB1108		025			005458F0D	5
BNA	EXQ12	LSD		LOW	WATER	1.00	93/11/24	18:13	EXQ12B		025	LWB1108		00666F344	5
BNA	EXQ12MS	LF1		LOW	WATER	1.00	93/11/24	18:59	EXQ12BM		025	LWB1108		00754F210	5
BNA	EXQ12MSD	LF2		LOW	WATER	1.00	93/11/24	19:44	EXQ12BD		025	LWB1108		008421C8C	5
PEST		MNC			0					DB-1701	3400-A			00003290B	6
PEST	FLO952075	FLO			0		93/04/06	03:47	952075	DB-1701	3400-A			00112942E	6
PEST	GPC1	GPC			0		93/11/29	20:31	111693S	DB-1701	3400-A			001257BEE	6
PEST	PIBLK01	LIB			WATER		93/11/22	17:16	PIBLK01	DB-1701	3400-A			0013307ED	6
PEST	RESC01	LPC			0		93/11/22	17:43	RESC01	DB-1701	3400-A			00175AF54	6

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

== FILE SKELETON ==
LAB: ENCOT SDG: EXQ02

FRACTION	SAMPLE	QC	SQ	LEVEL	MATRIX	DILUTION	ANALYSIS DATE	ANALYSIS TIME	LAB FILE/ SAMP_ID	COL_ID	INSTID	MB_FID	SB_FID	REC_REF	RUN
PEST	PEM01	CLE			0		93/11/22	18:10	PEM01	DB-1701	3400-A			00195AE20	6
PEST	AR166001	CLS			0		93/11/22	18:37	AR166001	DB-1701	3400-A			00214B8C5	6
PEST	AR122101	CLS			0		93/11/22	19:04	AR122101	DB-1701	3400-A			00236DD4A	6
PEST	AR123201	CLS			0		93/11/22	19:31	AR123201	DB-1701	3400-A			0024879EF	6
PEST	AR124201	CLS			0		93/11/22	19:59	AR124201	DB-1701	3400-A			0026016F8	6
PEST	AR124801	CLS			0		93/11/22	20:26	AR124801	DB-1701	3400-A			00276E9EE	6
PEST	AR125401	CLS			0		93/11/22	20:53	AR125401	DB-1701	3400-A			00288871D	6
PEST	TOXAPH01	CLS			0		93/11/22	21:20	TOXAPH01	DB-1701	3400-A			003045B8D	6
PEST	INDAL01	CLM			0		93/11/22	21:47	INDAL01	DB-1701	3400-A			00316F903	6
PEST	INDBL01	CLM			0		93/11/22	22:15	INDBL01	DB-1701	3400-A			00341408A	6
PEST	INDAM01	CLM			0		93/11/22	22:42	INDAM01	DB-1701	3400-A			00370C04B	6
PEST	INDBM01	CLM			0		93/11/22	23:09	INDBM01	DB-1701	3400-A			0039507CD	6
PEST	INDAH01	CLM			0		93/11/22	23:36	INDAH01	DB-1701	3400-A			004248797	6
PEST	INDBH01	CLM			0		93/11/23	00:03	INDBH01	DB-1701	3400-A			00449CF65	6
PEST	PIBLK02	LIB			WATER		93/11/23	00:30	PIBLK02	DB-1701	3400-A			004785106	6
PEST	PEM02	CLE			0		93/11/23	00:57	PEM02	DB-1701	3400-A			00520F812	6
PEST	PIBLK03	LIB			WATER		93/11/23	09:04	PIBLK03	DB-1701	3400-A			00539039E	6
PEST	INDAM02	CLE			0		93/11/23	09:31	INDAM02	DB-1701	3400-A			00581AB5D	6
PEST	INDBM02	CLE			0		93/11/23	09:58	INDBM02	DB-1701	3400-A			006071820	6
PEST	PIBLK04	LIB			WATER		93/11/24	09:31	PIBLK04	DB-1701	3400-A			00637C168	6
PEST	PEM03	CLE			0		93/11/24	09:58	PEM03	DB-1701	3400-A			006796883	6
PEST	PIBLK05	LIB			WATER		93/11/24	15:24	PIBLK05	DB-1701	3400-A			0069874B8	6
PEST	INDAM03	CLE			0		93/11/24	15:51	INDAM03	DB-1701	3400-A			007401C7C	6
PEST	INDBM03	CLE			0		93/11/24	16:18	INDBM03	DB-1701	3400-A			0076689C5	6
PEST	PIBLK06	LIB			WATER		93/11/29	08:58	PIBLK06	DB-1701	3400-A			0079633A0	6
PEST	PEM04	CLE			0		93/11/29	09:45	PEM04	DB-1701	3400-A			00838DABF	6
PEST	PIBLK07	LIB			WATER		93/11/29	20:58	PIBLK07	DB-1701	3400-A			00857E708	6
PEST	INDAM04	CLE			0		93/11/29	21:26	INDAM04	DB-1701	3400-A			008998ED0	6
PEST	INDBM04	CLE			0		93/11/29	21:53	INDBM04	DB-1701	3400-A			00925FBD6	6
PEST	PBLKW1	LRB			WATER	1	93/11/29	22:20	MB110593-1	DB-1701	3400-A			00955A557	6
PEST	EXQ12	LSD			WATER	1	93/11/29	22:47	23955	DB-1701	3400-A	MB110593-1		010018F7E	6
PEST	EXQ12MS	LF1			WATER	1	93/11/29	23:14	23955MS	DB-1701	3400-A	MB110593-1		010477FAB	6
PEST	EXQ12MSD	LF2			WATER	1	93/11/29	23:41	23955MSD	DB-1701	3400-A	MB110593-1		01098A530	6
PEST	PBLKL1	LRB			SOIL	1	93/11/30	00:08	MB111193-1	DB-1701	3400-A			01150D4C0	6
PEST	EXQ02	LSD			SOIL	1	93/11/30	00:35	23944	DB-1701	3400-A	MB111193-1		01197CE79	6
PEST	EXQ02MS	LF1			SOIL	1	93/11/30	01:02	23944MS	DB-1701	3400-A	MB111193-1		012566FE5	6
PEST	EXQ02MSD	LF2			SOIL	1	93/11/30	01:29	23944MSD	DB-1701	3400-A	MB111193-1		013204E73	6
PEST	EXQ06				SOIL	1	93/11/30	01:56	23948	DB-1701	3400-A	MB111193-1		013842785	6
PEST	EXQ03				SOIL	1	93/11/30	02:23	23945	DB-1701	3400-A	MB111193-1		01437611C	6
PEST	EXQ05				SOIL	1	93/11/30	02:50	23947	DB-1701	3400-A	MB111193-1		0149917B1	6
PEST	EXQ04				SOIL	1	93/11/30	03:17	23946	DB-1701	3400-A	MB111193-1		015514726	6
PEST	EXQ09				SOIL	1	93/11/30	03:44	23951	DB-1701	3400-A	MB111193-1		016069440	6
PEST	EXQ10				SOIL	1	93/11/30	04:11	23952	DB-1701	3400-A	MB111193-1		01659D22B	6
PEST	EXQ08				SOIL	1	93/11/30	04:38	23950	DB-1701	3400-A	MB111193-1		017120E27	6
PEST	EXQ11				SOIL	1	93/11/30	05:05	23953	DB-1701	3400-A	MB111193-1		017643C52	6
PEST	EXQ07				SOIL	1	93/11/30	05:32	23949	DB-1701	3400-A	MB111193-1		01818821A	6
PEST	PIBLK08	LIB			WATER	1	93/11/30	08:14	PIBLK08	DB-1701	3400-A	MB111193-1		01873D3D4	6
PEST	PEM05	CLE			0	1	93/11/30	09:20	PEM05	DB-1701	3400-A	MB111193-1		019168505	6
PEST		MNC			0					DB-17	3400-B			0000328AB	7
PEST	FLO952075	FLO			0		93/04/06	03:47	952075	DB-17	3400-B			001129A37	7

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

== FILE SKELETON ==
LAB: ENCOT SDG: EXQ02

FRACTION	SAMPLE	QC	SQ	LEVEL	MATRIX	DILUTION	ANALYSIS DATE	ANALYSIS TIME	LAB FILE/ SAMP_ID	COL_ID	INSTID	MB_FID	SB_FID	REC_REF	RUN
PEST	GPC1	GPC			0		93/11/29	20:31	111693S	DB-17	3400-B			0012581F7	7
PEST	PIBLK01	LIB			WATER		93/11/22	17:16	PIBLK01	DB-17	3400-B			001330DF6	7
PEST	RESC01	LPC			0		93/11/22	17:43	RESC01	DB-17	3400-B			00175B55D	7
PEST	PEM01	CLE			0		93/11/22	18:10	PEM01	DB-17	3400-B			00195B457	7
PEST	AR166001	CLS			0		93/11/22	18:37	AR166001	DB-17	3400-B			00214BF21	7
PEST	AR122101	CLS			0		93/11/22	19:04	AR122101	DB-17	3400-B			00236E420	7
PEST	AR123201	CLS			0		93/11/22	19:31	AR123201	DB-17	3400-B			00248813A	7
PEST	AR124201	CLS			0		93/11/22	19:59	AR124201	DB-17	3400-B			002601E71	7
PEST	AR124801	CLS			0		93/11/22	20:26	AR124801	DB-17	3400-B			00276F235	7
PEST	AR125401	CLS			0		93/11/22	20:53	AR125401	DB-17	3400-B			002888FBD	7
PEST	TOXAPH01	CLS			0		93/11/22	21:20	TOXAPH01	DB-17	3400-B			003046476	7
PEST	INDAL01	CLM			0		93/11/22	21:47	INDAL01	DB-17	3400-B			003160216	7
PEST	INDBL01	CLM			0		93/11/22	22:15	INDBL01	DB-17	3400-B			003414A8A	7
PEST	INDAM01	CLM			0		93/11/22	22:42	INDAM01	DB-17	3400-B			00370CAF6	7
PEST	INDBM01	CLM			0		93/11/22	23:09	INDBM01	DB-17	3400-B			003951342	7
PEST	INDAH01	CLM			0		93/11/22	23:36	INDAH01	DB-17	3400-B			00424939C	7
PEST	INDBH01	CLM			0		93/11/23	00:03	INDBH01	DB-17	3400-B			00449DC3D	7
PEST	PIBLK02	LIB			WATER		93/11/23	00:30	PIBLK02	DB-17	3400-B			004785E5B	7
PEST	PEM02	CLE			0		93/11/23	00:57	PEM02	DB-17	3400-B			005200567	7
PEST	PIBLK03	LIB			WATER		93/11/23	09:04	PIBLK03	DB-17	3400-B			005391108	7
PEST	INDAM02	CLE			0		93/11/23	09:31	INDAM02	DB-17	3400-B			00581B8C7	7
PEST	INDBM02	CLE			0		93/11/23	09:58	INDBM02	DB-17	3400-B			00607262C	7
PEST	PIBLK04	LIB			WATER		93/11/24	09:31	PIBLK04	DB-17	3400-B			00637D013	7
PEST	PEM03	CLE			0		93/11/24	09:58	PEM03	DB-17	3400-B			00679772E	7
PEST	PIBLK05	LIB			WATER		93/11/24	15:24	PIBLK05	DB-17	3400-B			0069882EB	7
PEST	INDAM03	CLE			0		93/11/24	15:51	INDAM03	DB-17	3400-B			007402AAF	7
PEST	INDBM03	CLE			0		93/11/24	16:18	INDBM03	DB-17	3400-B			007669870	7
PEST	PIBLK06	LIB			WATER		93/11/29	08:58	PIBLK06	DB-17	3400-B			0079642BF	7
PEST	PEM04	CLE			0		93/11/29	09:45	PEM04	DB-17	3400-B			00838E9DE	7
PEST	PIBLK07	LIB			WATER		93/11/29	20:59	PIBLK07	DB-17	3400-B			00857F616	7
PEST	INDAM04	CLE			0		93/11/29	21:26	INDAM04	DB-17	3400-B			008999DDF	7
PEST	INDBM04	CLE			0		93/11/29	21:53	INDBM04	DB-17	3400-B			009250B17	7
PEST	PBLKW1	LRB			WATER	1	93/11/29	22:20	MB110593-1	DB-17	3400-B			00955B516	7
PEST	EXQ12	LSD			WATER	1	93/11/29	22:47	23955	DB-17	3400-B	MB110593-1		01005C97C	7
PEST	EXQ12MS	LF1			WATER	1	93/11/29	23:14	23955MS	DB-17	3400-B	MB110593-1		01055E42C	7
PEST	EXQ12MSD	LF2			WATER	1	93/11/29	23:41	23955MSD	DB-17	3400-B	MB110593-1		0111248C3	7
PEST	PBLKL1	LRB			SOIL	1	93/11/30	00:08	MB111193-1	DB-17	3400-B			01169AD46	7
PEST	EXQ02	LSD			SOIL	1	93/11/30	00:35	23944	DB-17	3400-B	MB111193-1		0122504C9	7
PEST	EXQ02MS	LF1			SOIL	1	93/11/30	01:02	23944MS	DB-17	3400-B	MB111193-1		01292F703	7
PEST	EXQ02MSD	LF2			SOIL	1	93/11/30	01:29	23944MSD	DB-17	3400-B	MB111193-1		01359F3C3	7
PEST	EXQ06				SOIL	1	93/11/30	01:56	23948	DB-17	3400-B	MB111193-1		01426EC70	7
PEST	EXQ03				SOIL	1	93/11/30	02:23	23945	DB-17	3400-B	MB111193-1		014813A90	7
PEST	EXQ05				SOIL	1	93/11/30	02:50	23947	DB-17	3400-B	MB111193-1		0154823B8	7
PEST	EXQ04				SOIL	1	93/11/30	03:17	23946	DB-17	3400-B	MB111193-1		016079ABD	7
PEST	EXQ09				SOIL	1	93/11/30	03:44	23951	DB-17	3400-B	MB111193-1		01662E85F	7
PEST	EXQ10				SOIL	1	93/11/30	04:11	23952	DB-17	3400-B	MB111193-1		01721623C	7
PEST	EXQ08				SOIL	1	93/11/30	04:38	23950	DB-17	3400-B	MB111193-1		01779D081	7
PEST	EXQ11				SOIL	1	93/11/30	05:06	23953	DB-17	3400-B	MB111193-1		018405980	7
PEST	EXQ07				SOIL	1	93/11/30	05:33	23949	DB-17	3400-B	MB111193-1		01899D1ED	7
PEST	PIBLK08	LIB			WATER	1	93/11/30	08:15	PIBLK08	DB-17	3400-B	MB111193-1		019563806	7

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

== FILE SKELETON ==
LAB: ENCOT SDG: EXQ02

FRACTION	SAMPLE	QC	SQ	LEVEL	MATRIX	DILUTION	ANALYSIS DATE	ANALYSIS TIME	LAB FILE/ SAMP_ID	COL_ID	INSTID	MB_FID	SB_FID	REC_REF	RUN
PEST	PEM05	CLE			0	1	93/11/30	09:20	PEM05	DB-17	3400-B	MB111193-1		01998DE13	7

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING TEXTUAL DEFECT REPORT

DETAILED SUMMARY OF CCS REVIEW

EXPLANATORY NOTE

THIS REPORT SUMMARIZES DEFECT MESSAGES. INFORMATION IN PARENTHESES AT THE END OF A DEFECT MESSAGE REFERENCES THE SOW PAGE NUMBER WHERE THE REQUIREMENTS ORIGINATED.

LAB: ENCOT SDG: EXQ02 FRACTION: VOLATILES

***** SAMPLE: EXQ03MS *****

CRITERION AI. ANALYTICAL RESULTS

AI.11 Analysis of samples exceeded the 10 day VTSR holding time. (D-6/VOA)

SEQUENCE/CAS NO.	DEFECT MESSAGE	CURRENT VALUE	CORRECT VALUE	DEFECT CODE
	EXCEEDING HOLDING TIME BY	14	WITHIN 10 DAYS	106

***** SAMPLE: EXQ03MSD *****

CRITERION AI. ANALYTICAL RESULTS

AI.11 Analysis of samples exceeded the 10 day VTSR holding time. (D-6/VOA)

SEQUENCE/CAS NO.	DEFECT MESSAGE	CURRENT VALUE	CORRECT VALUE	DEFECT CODE
	EXCEEDING HOLDING TIME BY	14	WITHIN 10 DAYS	106

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: VOLATILES

***** SAMPLE: EXQ03DL *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ03MS *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ03MSD *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12MS *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ12MSD *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

***** SAMPLE: EXQ14 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING MANUAL SCREENING DEFECT REPORT

LAB: ENCOT SDG: EXQ02 FRACTION: VOLATILES

***** SAMPLE: EXQ15 *****

CRITERION E. GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION (FORM 5A)

E.13.2.1 <Analysis Date> are missing on <Mass Listing>. (B-11/B-13)*

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING MANUAL SCREENING DEFECT REPORT

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: SEMI-VOLATILES

*** SAMPLE: EXQ02MSD *****

CRITERION AI. ANALYTICAL RESULTS (FORM 1B/1C)

AI.15.1.1 <EPA Sample Number> on <RICs> is missing. (B-15/B-16)*

*** SAMPLE: EXQ03 *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

*** SAMPLE: EXQ12 *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

*** SAMPLE: EXQ12MS *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR
ORGANIC CONTRACT COMPLIANCE SCREENING MANUAL SCREENING DEFECT REPORT

LAB: ENCOT SDG: EXQ02 FRACTION: SEMI-VOLATILES

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

***** SAMPLE: EXQ12MSD *****

CRITERION H. INTERNAL STANDARD SUMMARY (FORM(S) 8B/8C)

H.2.2.1 Form(s) <8C> header information is missing <Lab Name>. (B-28/B-29/B-32)*

H.2.2.2 Form(s) <8C> header information is missing <Contract Number>. (B-28/B-29/B-32)*

H.2.2.3 Form(s) <8C> header information is missing <Lab Code>. (B-28/B-29/B-32)*

H.2.2.4 Form(s) <8C> header information is missing <Case Number>. (B-28/B-29/B-32)*

H.2.2.5 Form(s) <8C> header information is missing <SDG Number>. (B-28/B-29/B-32)*

H.2.2.6 Form(s) <8C> header information is missing <Instrument ID>. (B-28/B-29/B-32)*

EXPLANATORY NOTE

THIS REPORT PROVIDES A SUMMARY OF THE DEFECTS ASSOCIATED WITH MANUAL SCREENING OF THE DATA PACKAGE. FOR EACH SAMPLE WITH ASSOCIATED DEFECTS, THE FORM NUMBERS, CRITERION, AND PAGE NUMBERS FROM THE SOW ARE LISTED.

LAB: ENCOT SDG: EXQ02 FRACTION: PESTICIDES

***** SAMPLE: EXQ02 *****

CRITERION G. PESTICIDE ANALYTICAL SEQUENCE (FORM 8D)

G.9 Standards for all tentatively identified Aroclors are not run within 72 hours of the sample analysis in which they were observed. (D-34 PEST/D-40 PEST)*

***** SAMPLE: EXQ03 *****

CRITERION G. PESTICIDE ANALYTICAL SEQUENCE (FORM 8D)

G.9 Standards for all tentatively identified Aroclors are not run within 72 hours of the sample analysis in which they were observed. (D-34 PEST/D-40 PEST)*

FRACTION	CRITERION	COMMENTS
VOA	TR.1	TRAFFIC REPORT IS MISSING FOR VOLATILE SAMPLES EXQ14 & 15
VOA	*	EPA SAMPLE NUMBER IS MISLABLED FOR EXZ03MS & EXQ03MSD. IT SHOULD BE EXQ03DLMS & EXQ03DLMSD.
VOA	E.13	ANALYSIS DATE IS MISSING FOR THE FOLLOWING BFBS: BFB ANALYZED ON 11/13/93 AT 7:01 BFB ANALYZED ON 11/13/93 AT 10:34 BFB ANALYZED ON 11/24/93 AT 8:47 SAMPLES AFFECTED ARE : EXQ14,EXQ12,EXQ12MS,EXQ12MSD,EXQ15, EXQ03DL,EXQ03MS & EXQ03MSD.
BNA	H.2	FORM 8C IS MISSING FOR EXQ03,EXQ12,EXQ12MS & EXQ12MSD.
BNA	A.15	EPA SAMPLE NUMBER IS MISSING FOR EXQ02MSD ON RIC (P.1484)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE - OPERATED BY DYNCORP VIAR

ORGANICS
CONTRACT COMPLIANCE SCREENING (CCS) RESULTS

THIS REPORT IS A SUMMARY OF THE SCREENERS COMMENTS REGARDING THE TECHNICAL AND MANUAL DEFECTS FOUND IN THIS SDG.

LABORATORY CODE : ENCOT
REGION : 5
DATE MAILED :

CASE: 21170
SDG_NO. : EXQ02
SCREENER : SS/SC

DATE RECEIVED : 09DEC93

FRACTION	CRITERION	COMMENTS
PEST	*	TCX RT IS MISSING FOR PIBLK1 (P.1609) ON COLUMN DB-1701.
PEST	G.9	STD AROCLOR - 1260 ANALYSES (WITHIN 72 HOUR) IS MISSING FOR

EXQ02 & EXQ03 SAMPLES.