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United States
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Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

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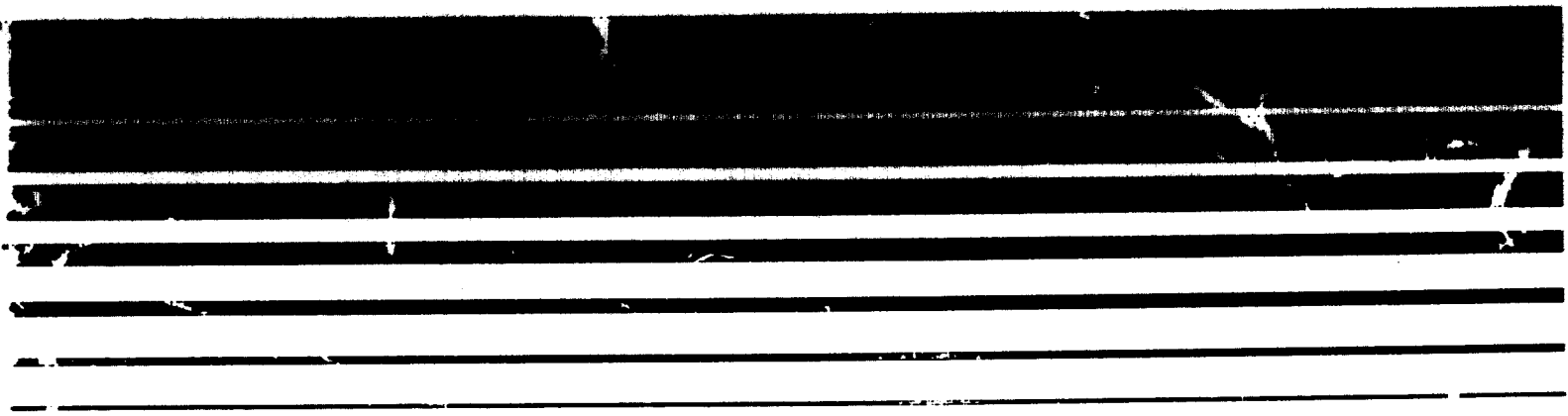
Air

EPA

Organics Screening Study Test Report

Sewage Sludge Incinerator No. 13 Detroit Water And Sewer Department Detroit, Michigan



EMISSION TEST REPORT

CHARACTERIZATION OF ORGANIC EMISSIONS FROM SEWAGE SLUDGE INCINERATORS 9 AND 13 DETROIT WATER AND SEWER DEPARTMENT DETROIT, MICHIGAN VOLUME I

by

PEI Associates, Inc.
11499 Chester Road
P.O. Box 46100
Cincinnati, Ohio 45246-0100

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Task Manager

Mr. Frank Clay
Emission Standards and Engineering Division
Emission Measurement Branch
Research Triangle Park, North Carolina 27711

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR QUALITY PLANNING AND STANDARDS
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

August 1986

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Mr. Frank Clay, Emission Measurement Branch Task Manager, provided overall project coordination and guidance and observed the test program. Mr. Ron Myers, Industrial Studies Branch Project Engineer, and Mr. Dwight Atkinson of Midwest Research Institute (an EPA Contractor) monitored process operation throughout the test period. Mr. Charles Bruffey was the PEI Project Manager. Principal authors were Messrs. Charles Bruffey, David Osterhout, and Thomas Wagner.

SECTION 1

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) is attempting to characterize organic emissions from multiple-hearth sludge incinerators. To perform an accurate assessment of these emissions, the Emission Measurement Branch (EMB) of EPA's Environmental Standards and Engineering Division (ESED) requires contractor assistance in obtaining representative organic emissions data.

Under contract to ESED-EMB, PEI Associates, Inc., performed a series of atmospheric emission tests on two such incinerators operated by the Detroit Water and Sewer Department in Detroit, Michigan. All testing took place June 19 through 27, 1985. These tests were performed as part of a larger study evaluating chromium emissions from the source type.

Tests were conducted at the inlet and outlet of an impingement scrubber to determine the concentration and mass emission rates of total hydrocarbons and semivolatile and volatile organic compounds. Process samples, including sludge feed, incinerator bottom ash, and scrubber water influent and effluent water, were collected each test day; and specific samples were analyzed for semivolatile organic content, pesticides, and polychlorinated biphenols (PCB's). Project objectives were met, and no major problems were encountered during the test period.

Section 2 presents a summary and discussion of the test results; Section 3 addresses quality assurance considerations specific to this project; Section 4 describes the sampling locations and test procedures; and Section 5

describes source operation. Appendix A presents sample calculations and computer printouts; Appendices B and C contain the field data sheets and laboratory analytical results, respectively; Appendix D details the sampling and analytical procedures; Appendix E summarizes equipment calibration procedures and results; and Appendix F contains a list of project participants and a sampling log.

SECTION 2

SUMMARY AND DISCUSSION OF TEST RESULTS

This section details the results of the sampling program. Subsections are used to identify results from each test type (i.e., total hydrocarbons, semivolatile organics, and volatile organics), and results are expressed in both metric and English units where applicable.

2.1 TEST PROTOCOL

Table 2-1 presents the sampling and analytical parameters used throughout this project, identifies each test and location, and gives the sampling times for each specific test type. Table 2-2 summarizes the analytical protocol followed for process samples collected during the test series.

In summary, tests were conducted to characterize uncontrolled and controlled organic emissions from multiple-hearth sludge incinerators.

As shown in Table 2-1, four tests (PCIO-1, PC1O-2, PCOO-1 and -2) were conducted before and after the scrubber to determine semivolatile organic content. These tests were conducted isokinetically at a point of average velocity and temperature in the duct. These runs were designed to determine semivolatile organic content from the back half of the train on which a water-cooled XAD-2 resin trap was placed prior to the first impinger. In an additional test of this type (PCIO-3 and PCOO-3), the entire sampling train (probe residue, filter, XAD-2 resin, and back-half water) was analyzed for semivolatile organics.

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* 40 CFR 60, Appendix A, EPA Reference Methods 1 through 5, July 1984.

TABLE 2-1. SAMPLING AND ANALYTICAL PARAMETERS, SLUDGE INCINERATOR NO. 13 - DETROIT WATER AND SEWAGE DEPARTMENT

			Sample parameters[b]				Analytical parameters		
Run No.	Date (1985) and time (24 h)	Location[a] No. 13 incinerator	EPA Methods 1 through 4	Modified Method 5 (XAD-2 resin trap (semivolatile) organics	VOST M Tenax-charcoal resin trap (volatile organics)	Total hydro-carbons, CEM	Modified Method 5 GC/MS-quantifi-cation of organic classes	VOST GC/MS volatile organics	Total hydro-carbons, ppm CEM strip chart data reduction
PCIO-1	6/25-0910-1210	Inlet	X	X	-	-	X	-	-
PCOO-1	6/25-0911-1211	Outlet	X	X	-	X	X	-	X
PCIO-2	6/25-1350-1650	Inlet	X	X	-	-	X	-	-
PCOO-2	6/25-1350-1650	Outlet	X	X	-	X	X	-	X
PCIO-3	6/26-0834-1034	Inlet	-	X	-	-	X	-	-
PCOO-3	6/26-0831-1131	Outlet	-	X	-	X	X	-	X
VO-1	6/26-1242-1302	Outlet	-	-	X	X	-	X	X
VO-2	6/26-1324-1344	Outlet	-	-	X	X	-	X	X
VO-3	6/26-1407-1427	Outlet	-	-	X	X	-	X	X
VI-1	6/27-0852-0912	Inlet	-	-	X	-	-	X	-
VI-2	6/27-0932-0952	Inlet	-	-	X	-	-	X	-
VI-3	6/27-1008-1028	Inlet	-	-	X	-	-	X	-

[a] All testing was performed on the No. 13 incinerator except the inlet (VI) VOST runs. These samples were collected from the No. 9 incinerator.

[b] For the Modified Method 5 tests, single-point isokinetic sampling techniques were used with an XAD-2 resin trap behind the sample filter. The back-half resin trap and impinger solution (H_2O) were analyzed by GC/MS for semivolatile organics. A single modified Method 5 test was also run at each location (6/25), and the entire sampling train (including probe rinse and filter) was extracted and analyzed by GC/MS. A volatile organic sampling train was used to collect samples at each location for GC/MS quantification of volatile organic compounds.

TABLE 2-2. ANALYTICAL PROTOCOL FOLLOWED FOR PROCESS SAMPLES COLLECTED

Sample type	Semi-volatile organics (GC/MS)	Volatile organics (GC/MS)	Pesticides and PCB's (GC/ECD)
1) Dewatered sludge samples	X	-	X
2) Incinerator bottom ash	X	-	-
3) Scrubber water influent	X	-	X
4) Scrubber water effluent	X	-	-

Volatile organic compounds were measured before and after the scrubber with a Volatile Organic Sampling Train (VOST).* Three samples were collected at each site. Each sample represented a pair of sorbent traps--a Tenax trap connected in series with a Tenax/charcoal trap. Note that the outlet tests were conducted on the No. 13 incinerator and the inlet tests on the No. 9 incinerator.

A Beckman model total hydrocarbon analyzer was used for continuous monitoring of organic emissions from the outlet of the No. 13 incinerator control system. These data were recorded each test day, including those days used to collect samples for the chromium emission study. The following subsections detail the results of this sample program.

2.2 TOTAL HYDROCARBON EMISSION RESULTS

The concentration of organic compounds in the incinerator outlet stack was measured with a heated sample line and flame ionization detector (FID). A continuous sample was extracted from the stack and analyzed on the days chromium and organic sampling trains were run at the outlet. The monitor was operated during five of the six chromium tests and during all three of the organic (Modified Method 5) tests.

Table 2-3 summarizes results obtained with the hydrocarbon monitor. The concentrations reported in Table 2-3 represent the monitor's response relative to methane among the organic compounds present in the flue gas. They are reported on a wet basis because water contained in the flue gas will not condense in the heated (300°F) sample line. The magnitude of the monitor's

* Protocol for Collection and Analysis of Volatile POHC's Using VOST, prepared for EPA by Envirodyne Engineers, Inc., February 1984.

TABLE 2-3. SUMMARY OF TOTAL HYDROCARBONS EMISSION DATA

wet methane

Test No.	Date (1985)	Time	Total time, min	Concentration, ppm				
				Average	High[a]	Low[a]	High[b]	Low[b]
1	6/19	1455-1705	130	90.7	122.5	73.9	160.5	62.4
2	6/20	0825-1530	425	109.6	190.0	56.6	308.9	37.2
3	6/21	0800-1530	450	80.9	122.3	61.2	179.9	46.5
4	6/22	0830-1500	390	99.8	133.5	56.7	279.6	38.4
5	6/24	0830-1150 1520-1900	420	157.3	261.4	77.4	377.6	58.0
6	6/25	0820-1240 1400-1700	440	119.6	276.3	70.8	>470	51.4
7	6/26	0750-1620	510	90.4	166.9	59.3	322.6	49.6

[a] Average maximum and minimum for 5-minute periods during Tests 1 through 3 and 10-minute periods during Tests 4 through 7.

[b] Single point maximum/minimum.

response to various organic compounds is a function of the compound's structure. Additional information about the degree of the monitor's response to various hydrocarbon structures is included in Appendix D.

Average hydrocarbon concentrations were calculated for 5-minute intervals during Tests 1 to 3 and for 10-minute intervals during Tests 4 to 7. The average hydrocarbon concentration for each day of testing was calculated as the average of the concentrations for the individual time periods. Average daily hydrocarbon concentrations ranged from 80.9 ppm (Test 3) to 157.3 ppm (Test 5). Average concentrations for individual time intervals ranged from 56.6 ppm (Test 2) to 276.3 ppm (Test 6). The minimum and maximum single-point concentrations for each day were also noted. These ranged from 37.2 ppm (Test 2) to more than 470 ppm (Test 6). This maximum value exceeded full-scale response for the range on which the monitor had been calibrated and could not be quantified except as greater than full-scale response (470 ppm).

2.3 PROCESS SAMPLE ANALYTICAL RESULTS

The dewatered sludge was analyzed for semivolatile organic compounds, including base, neutral, and acid compounds, by capillary gas chromatography/mass spectrometry (GC/MS) and pesticides and polychlorinated biphenyls (PCB's) by gas chromatography/electron capture detector (GC/ECD). The specific lists of target compounds are presented in Appendix D. The only target compound besides phthalates that was identified and quantitated was 4-methyl phenol, at concentrations of 3.3 and 34 µg/g (ppm) in the 6/25 and 6/16 samples, respectively. Phthalates are not reported because they were also identified in method blanks. Hydrocarbons, fatty acids, and fatty alcohols were tentatively identified in the samples. A capillary GC/MS chromatogram of the 6/25 sample is shown in Figure 2-1.

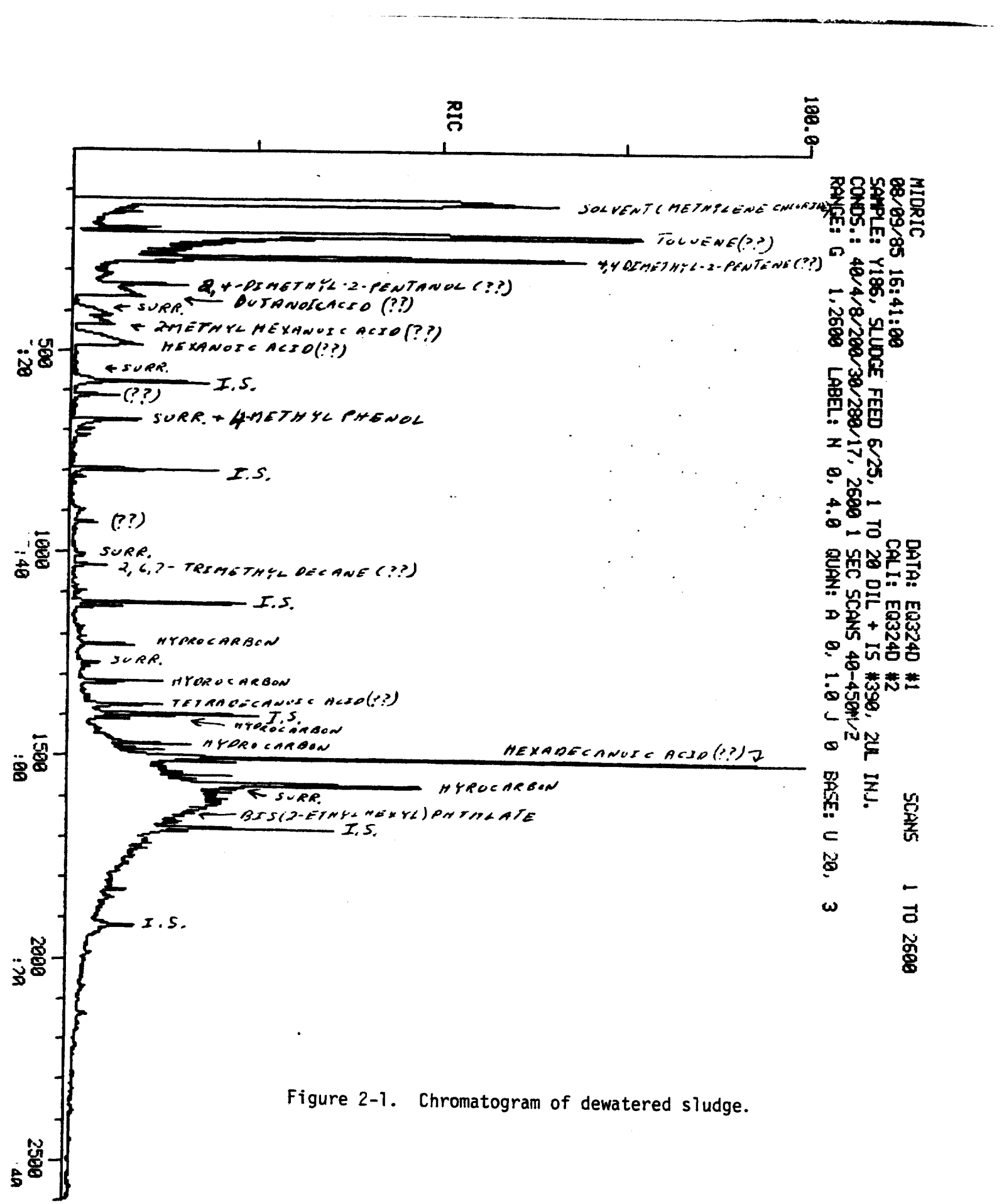

Figure 2-1. Chromatogram of dewatered sludge.

The bottom ash samples taken on 6/25 and 6/26 were analyzed for the same base, neutral, and acid compounds as the dewatered sludge. No target compounds other than phthalate were identified. Various compounds, mainly hydrocarbons, were tentatively identified. A capillary GC/MS chromatogram of the 6/26 sample is shown in Figure 2-2.

Scrubber influent and effluent samples (Figures 2-3 and 2-4) taken on 6/25 and 6/26 were analyzed for the same compounds as the dewatered sludge. No target compounds other than phthalates were identified, and very few other compounds could be qualitatively identified.

The process samples were not analyzed for volatile compounds.

2.4 SEMIVOLATILE ORGANIC EMISSION SUMMARY

As described in Subsection 2.1, tests designed to characterize semivolatile organic emissions from multiple-hearth sludge incinerators were conducted at the scrubber inlet and the outlet. Table 2-4 summarizes sample and flue gas conditions for the semivolatile organic tests. Note that compound mass rates were determined by using average flow rates from the chromium tests (not reported here). These flow rates (911 dNm^3/min at the inlet and 1211 dNm^3/min at the outlet) are considered more representative because they were determined by cross-sectional traverse sampling techniques. A modified Method 5 sampling train with an XAD-2 resin trap placed immediately prior to the first impinger was used for these measurements.

Tables 2-5 and 2-6 summarize the results for the semivolatile organic target compounds identified at the scrubber inlet and at the outlet. For the inlet samples, naphthalene concentrations were the highest (239, 173, and 106 ppb). Other compounds with concentrations greater than 10 ppb include 4-methylphenol (157, 2.3, and 3.7 ppb), 2,4-dinitrophenol (none detected,

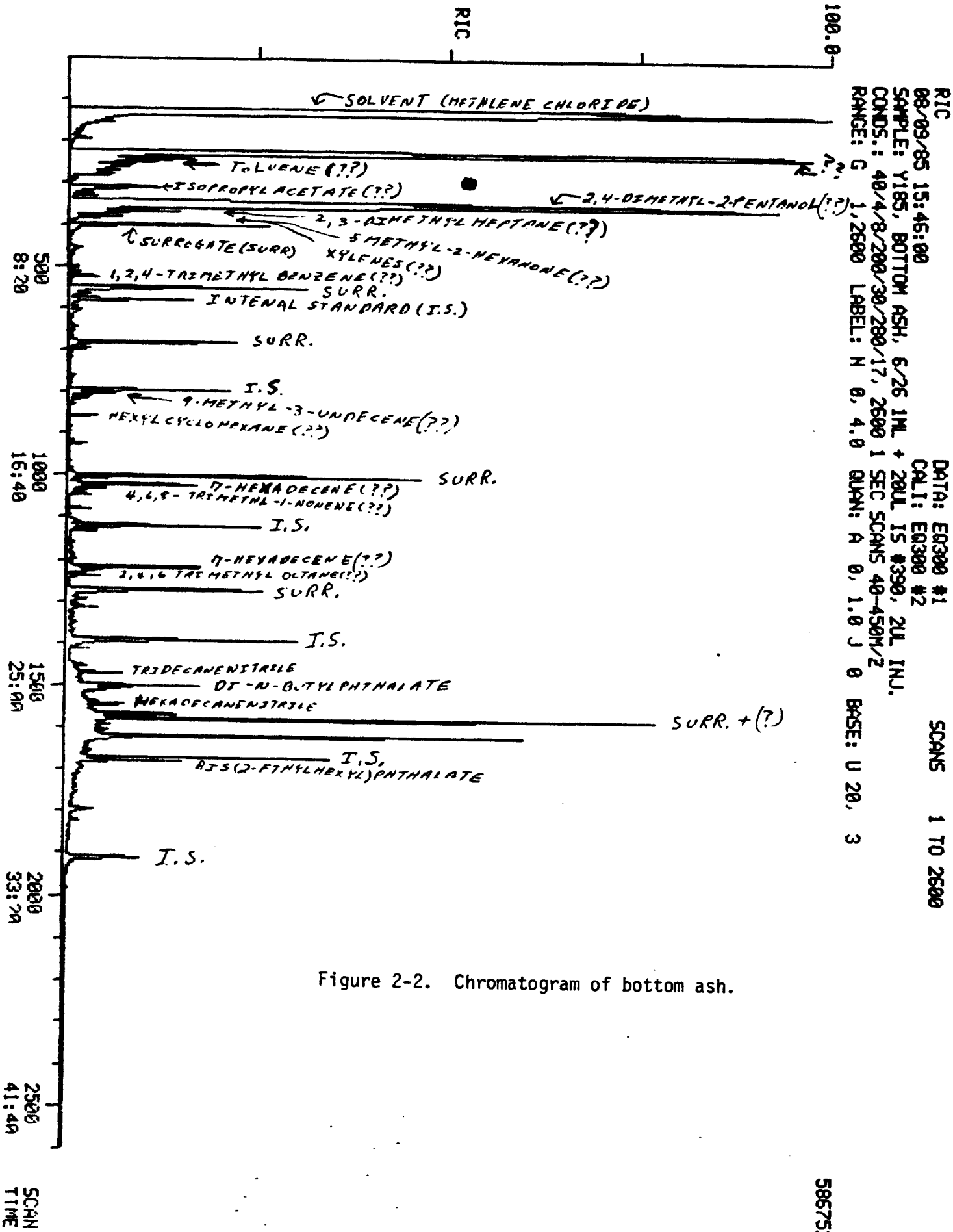

Figure 2-2. Chromatogram of bottom ash.

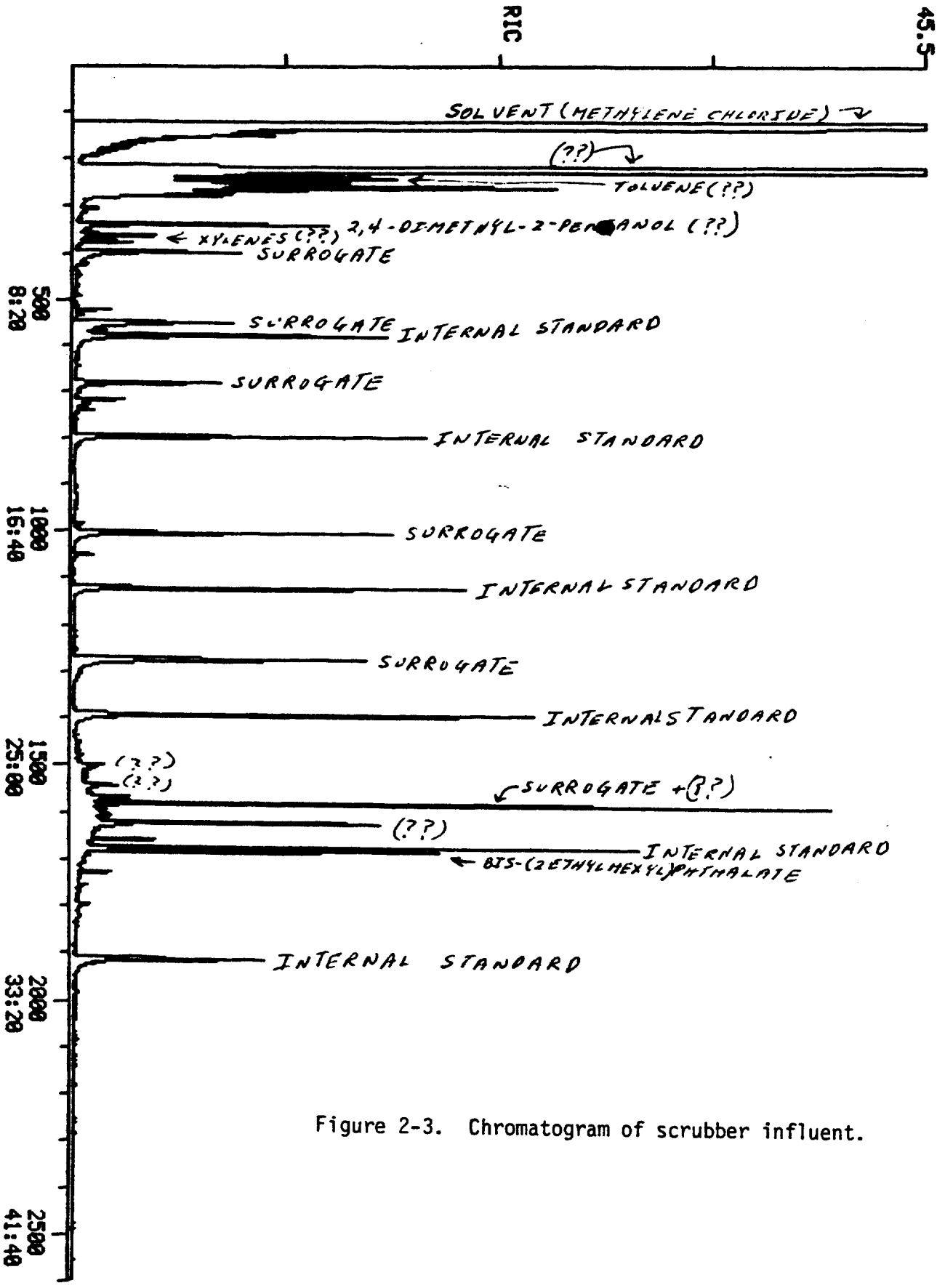

Figure 2-3. Chromatogram of scrubber influent.

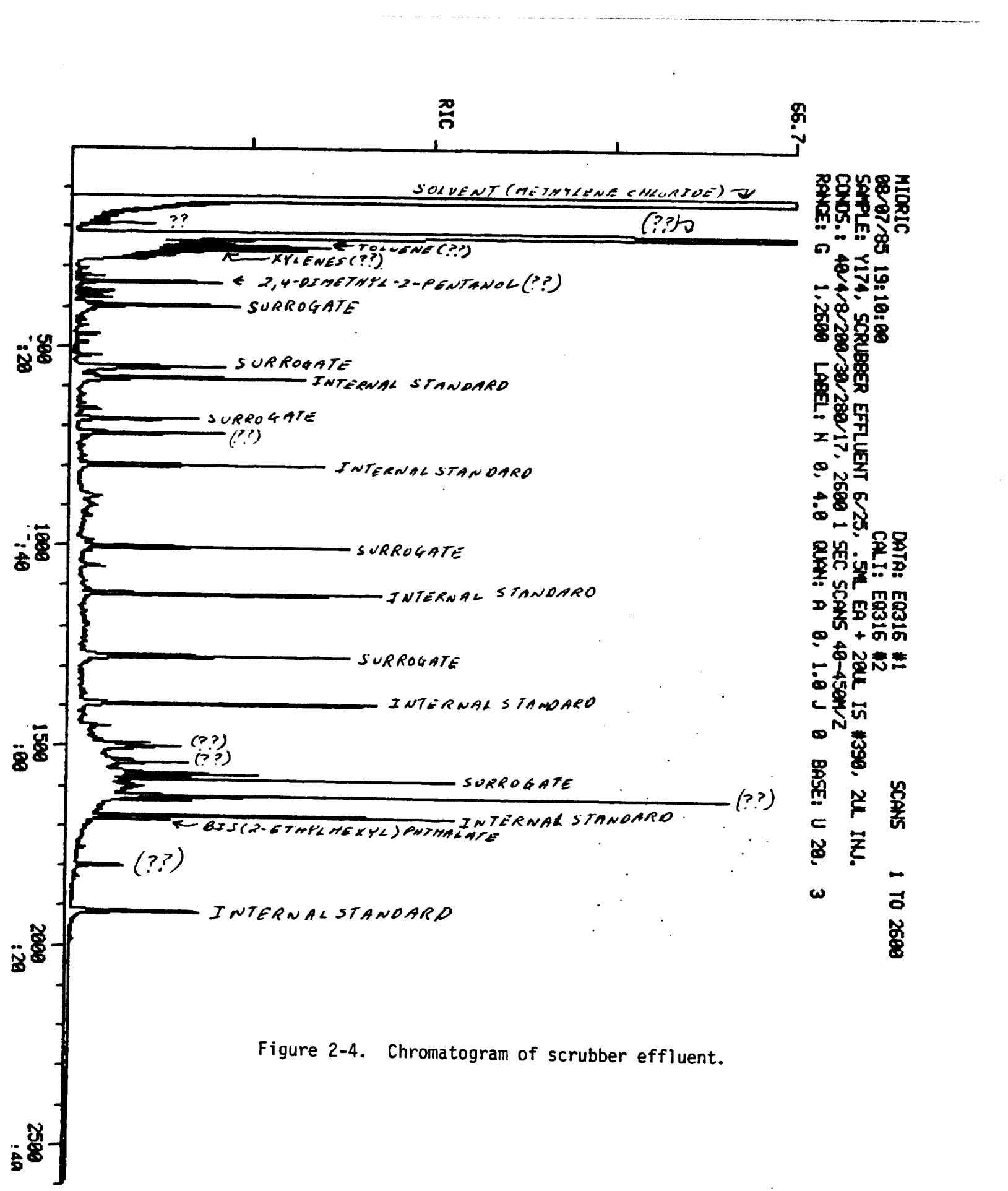

Figure 2-4. Chromatogram of scrubber effluent.

TABLE 2-4. SUMMARY OF SAMPLE AND FLUE GAS CONDITIONS FOR THE SEMIVOLATILE ORGANIC TESTS

Run No.	Date (1985)	Sampling duration, min	Sample volume dNm³	Sample volume dscf	Isokinetic sampling rate, %	Volumetric flow rate[a] Actual m³/min	Actual acfm	Standard dNm³/min	Standard dscfm	Temperature °C	Temperature °F	Moisture content, %	Composition,[b] % O_2	Composition,[b] % CO_2
PCIO-1[c]	6/25	180	1.73	61.17	100.8	3226	113,900	881	31,100	497	926	27.6	11.8	5.9
PCOO-1[c]	6/25	180	2.44	86.03	98.9	1195	42,200	1031	36,400	36	96	5.6	15.1	4.9
PCIO-2[c]	6/25	180	1.82	64.25	102.8	3155	111,400	906	32,000	466	870	26.7	12.25	5.75
PCOO-2[c]	6/25	180	2.38	83.92	100.3	1147	40,500	991	35,000	36	96	5.6	15.1	4.8
PCIO-3[d]	6/26	120	1.27	43.16	105.0	3223	113,800	895	31,600	496	924	26.2	13.2	4.9
PCOO-3[d]	6/26	180	2.29	80.70	98.9	1121	39,600	968	34,200	34	94	5.6	15.0	3.25

[a] Standard conditions: 20°C (68°F), 760 mmHg (29.94 in.Hg) and zero percent moisture.

[b] Gas composition as determined from integrated bag samples collected during each test. Analysis performed with an Orsat gas analyzer.

[c] Single-point, isokinetic sampling techniques were used for these runs. The front half of the sampling train (probe rinse, sample filter) was analyzed gravimetrically for particulate matter. The back half of the sampling train (XAD-2 resin and H_2O) was analyzed by GC/MS for semivolatile organics.

[d] The entire sampling train (probe rinse, filter(s), XAD-2 resin, and H_2O) was analyzed by GC/MS for semivolatile organics.

TABLE 2-5. SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS IDENTIFIED AT SCRUBBER INLET

Compound	Concentration, ppb				Emission rate					
					IO-1		IO-2		IO-3	
	mol wt	IO-1	IO-2	IO-3	kg/h	lb/h	kg/h	lb/h	kg/h	lb/h
Phenol	94.11	*	187	228	*	*	0.040	0.088	0.048	0.106
Bis (2-Chloroethyl) ether	143.02	4.6	3.4	1.6	0.001	0.003	0.001	0.002	0.001	0.001
1,3 Dichlorobenzene	147.01	1.7	1.7	-	0.001	0.001	0.001	0.001	-	-
1,4 Dichlorobenzene	147.01	3.5	4.4	-	0.001	0.002	0.001	0.003	-	-
1,2 Dichlorobenzene	147.01	2.9	3.7	1.4	0.001	0.002	0.001	0.003	-	0.001
2-Methylphenol	108.13	157	2.3	3.7	0.037	0.082	0.001	0.001	0.001	0.002
4-Methylphenol	108.13	51	23	36	0.012	0.027	0.006	0.013	0.009	0.019
Nitrobenzene	123.11	*	*	12	*	*	*	*	0.003	0.007
2-Nitrophenol	139.11	1.0	9.7	3.0	-	0.001	0.003	0.007	0.001	0.002
2,4 Dimethylphenol	122.16	27	1.9	-	0.007	0.016	0.001	0.001	-	-
Naphthalene	128.16	239	173	106	0.067	0.149	0.050	0.111	0.030	0.067
2-Methylnaphthalene	142.19	*	*	17	*	*	*	*	0.005	0.012
2-Chloronaphthylene	162.61	2.5	3.2	-	0.001	0.002	0.001	0.003	-	-
Acenaphthlyene	152.18	9.3	3.6	-	0.003	0.007	0.001	0.003	-	-
2,4-Dinitrophenol	184.11	-	-	81	-	-	-	-	0.033	0.074
4-Nitrophenol	139.11	8.3	-	23	0.003	0.006	-	-	0.007	0.016
Dibenzofuran	168.18	19	26	14	0.007	0.016	0.010	0.022	0.005	0.011
2,4-Dinitrotoluene	182.13	0.2	0.7	1.2	-	-	-	0.001	0.001	0.001
Fluorene	166.21	19	2.0	1.7	0.007	0.015	0.001	0.002	0.001	0.001
4,6-Dinitro-2-methylphenol	198.13	-	-	8.3	-	-	-	-	0.004	0.008
N-Nitrosodiphenylamine	198.22	0.6	4.7	3.5	-	0.001	0.002	0.005	0.002	0.003
Phenanthrene	178.22	30	1.2	9.8	0.012	0.026	0.005	0.011	0.004	0.009
Fluoroanthene	202.24	4.5	2.7	1.9	0.002	0.004	0.001	0.003	0.001	0.002
Pyrene	202.24	8.0	0.8	-	0.004	0.008	-	0.001	-	-
Chrysene	228.28	2.1	1.1	-	0.001	0.002	0.001	0.001	-	-
Total	-	-	-	-	0.167	0.370	0.127	0.282	0.156	0.342

* Compound was identified in the sample but it was not quantitated.

TABLE 2-6. SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS IDENTIFIED AT SCRUBBER OUTLET

Compound	mol wt	Concentration, ppb			Emission rate					
					00-1		00-2		00-3	
		00-1	00-2	00-3	kg/h	lb/h	kg/h	lb/h	Kg/h	lb/h
Phenol	94.11	5.4	3.8	6.5	0.001	0.003	0.001	0.002	0.001	0.003
1,4-Dichlorobenzene	147.01	3.6	3.6	3.7	0.001	0.003	0.001	0.003	0.001	0.003
1,2-Dichlorobenzene	147.01	0.9	1.1	1.1	-	0.001	-	0.001	-	0.001
4-Methylphenol	108.13	-	-	0.4	-	-	-	-	-	-
Hexachloroethane	236.76	0.6	0.9	0.8	-	0.001	0.001	0.001	-	0.001
Nitrobenzene	123.11	2.9	3.0	3.6	0.001	0.002	0.001	0.002	0.001	0.002
2-Nitrophenol	139.11	*	*	*	*	*	*	*	*	*
Naphthalene	128.16	59	77	57	0.019	0.043	0.025	0.054	0.018	0.039
2-Methylnaphthalene	142.19	9.3	14	8.7	0.003	0.007	0.005	0.011	0.003	0.007
2,4-Dinitrophenol	184.11	36	55	52	0.017	0.038	0.025	0.055	0.023	0.050
4-Nitrophenol	139.11	1.6	-	-	0.001	0.001	-	-	-	-
Dibenzofuran	168.18	6.6	8.3	6.8	0.003	0.006	0.003	0.008	0.003	0.006
2,4-Dinitrotoluene	182.13	-	0.6	-	-	-	-	0.001	-	-
Fluorene	166.21	-	0.9	-	-	-	-	0.001	-	-
4,6-Dinitro-2-methylphenol	198.13	3.8	5.8	4.5	0.002	0.004	0.003	0.006	0.002	0.005
N-Nitrosodiphenylanine	198.22	1.0	1.2	1.1	0.001	0.001	0.001	0.001	0.001	0.001
Phenanthrene	178.22	2.6	3.8	3.2	0.001	0.003	0.002	0.004	0.001	0.003
Fluoranthene	202.24	-	0.7	-	-	-	-	0.001	-	-
Total	-	-	-	-	0.050	0.113	0.068	0.151	0.054	0.121

* Compound was identified in the sample but it was not quantitated.

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	Multiple Hearth		Fluidized bed	
	Uncontrolled (Lb/ton)	Controlled (Lb/ton)	Uncontrolled (Lb/ton)	Controlled (Lb/ton)
Total particulate	46	0.7	105	0.43
Lead		0.006		0.001
SO_2	18.2	1.96		.232
NO_x		9.1		4.2
CO		0		0
VOC		1.03		0.15

and 81 ppb), phenol (none detected, 187 and 228 ppb), and dibenzofuran (19, 26, and 14 ppb). The total emission rates for the 25 semivolatile target compounds identified in concentrations greater than 1 ppb for the three inlet runs were 0.37, 0.282, and 0.342 lb/h (0.167, 0.157, 0.156 kg/h), respectively. Naphthalene also had the highest outlet concentrations (59, 77, and 57 ppb), with corresponding emission rates of 0.043, 0.054, and 0.039 lb/h (0.019, 0.025, and 0.018 kg/h), respectively. Concentrations of 2,4-dinitrophenol measured 36, 55, and 52 ppb; corresponding emission rates were 0.038, 0.055, and 0.050 lb/h (0.017, 0.025, and 0.023 kg/h), respectively. Three other polynuclear aromatic hydrocarbons (PAH) were identified in the outlet samples--fluorene, phenanthrene, and fluoranthene. The total emission rates for the 18 semivolatile target compounds identified in concentrations greater than 1 ppb in the three outlet runs were 0.113, 0.151, and 0.121 lb/h (0.05, 0.068, and 0.054 kg/h), respectively. No phthalates are reported because they were found in the blank samples.

Table 2-7 summarizes the other compounds tentatively identified in the modified Method 5 train. Because many peaks are present in the chromatograms (Figures 2-5 and 2-6), these identifications must be considered only tentative. A number of substituted benzenes, naphthalenes, and polynuclear aromatic compounds were identifed with greater than an 80 percent purity of the mass spectra versus the library spectra. The last three compounds in Table 2-7 were identified in the probe rinse fraction.

2.5 VOLATILE ORGANIC EMISSIONS SUMMARY

As described in Subsection 2.1, tests were conducted to determine the volatile organic compounds present in the flue gas stream prior to and after

TABLE 2-7. TENTATIVELY IDENTIFIED COMPOUNDS IN MODIFIED METHOD 5 SAMPLES[a]

	IO-1	IO-2	IO-3	OO-1	OO-2	OO-3
Trioxocane	X	X				
5-Methylisoxazole			X	X		
Pyrazine	X	X				
Cyclopropylethanone	X	X	X	X		X
Chloroform					X	
Pyridine	X	X	X	X	X	X
2-Propenoic acid	X					
Pentylacetate	X			X		
Dimethylcyclohexene	X	X				
Trimethylcyclohexane	X					
Chlorobenzene	X	X	X	X		X
Ethylbenzene	X	X	X	X	X	X
Ethylacetate	X			X		
2-Butenoic acid			X			
Ethylmethylcyclohexane	X					
Bromohexene				X	X	X
Isopropylcyclohexane	X					
2-Furanylethanone		X				
2-Methylhexenoic acid			X			
Isopropylbenzene	X	X				
Trimethylbicycloheptane	X					
Hexanoic acid			X			
Propylbenzene	X	X			X	X
Benzaldehyde			X	X	X	X
Trimethylbenzenes		X				
Menthane	X	X				
Isocyanobenzene			X			
Methylphenylethanone		X				

(continued)

TABLE 2-7 (continued)

	IO-1	IO-2	IO-3	OO-1	OO-2	OO-3
Pyridinecarbonitrile	X	X	X			
2-Propenylbenzene	X					
Methylisopropylbenzene		X				
1-Propynylbenzene	X					
Methylpropylbenzene	X	X				
3-Methylcyclohexenone			X			
Ethyldimethylbenzene	X	X				
Phenylethanone				X	X	X
Methylbenzaldehydes	X	X				
Dimethylstyrene	X	X				
Dimethylstyrene	X	X				
Trimethyldecane		X			X	X
Ethylisopropylbenzene		X				
2,3-Dimethylphenol	X					
Tetramethylbenzene	X	X				
Dimethylisopropylbenzene	X	X				
Dihydromethylindene	X					
Ethylisopropylbenzene	X					
Methylcyclopropenylbenzene	X					
Dimethylundecane		X		X	X	
2-Hydroxyphenylethanone	X	X				
Phenylpropenal	X					
Dimethylbenzaldehyde	X	X				
Benzendicarboxaldehyde	X	X				
Isopropylbenzaldehyde	X	X				
Dimethylindene	X					
Benzenedicarbonitrile	X	X				
2 Methyl-3-phenyl-2-propenal		X				

(continued)

TABLE 2-7 (continued)

	IO-1	IO-2	IO-3	OO-1	OO-2	OO-3
Isobutylphenol	X					
Isoquinoline		X				
Methylbenzoic acids	X	X				
1-Methylnaphthalene	X		X	X	X	X
Isobenzofuranone		X	X	X	X	
Ethenylnaphthalene	X	X	X	X	X	X
Dodecene	X	X				
Ethylnaphthalene	X					
Methylisobenzofuranone	X	X				
Benzopyran-2-one	X	X	X			
Dimethylnaphthalenes	X					
Naphthalenecarbonitrile		X				
Trimethylnaphthalenes	X					
Naphthalenecarboxaldehyde		X				
Diphenylmethanone		X				
Methylfluorenes	X					
9-Fluorenone	X	X	X			
Methylanthracenes	X					
9,10-Anthracenedione	X	X	X			
Naphtho[1,8-CD]pyran-1,3-dione	X	X	X	X		X
Trimethylphenanthrene	X					
Methyldodecane						X
Octacosane						X
Hexanedioic acid, dioctyl-ester						X

[a] Identification of these compounds cannot be positively confirmed because of overlapping peaks.

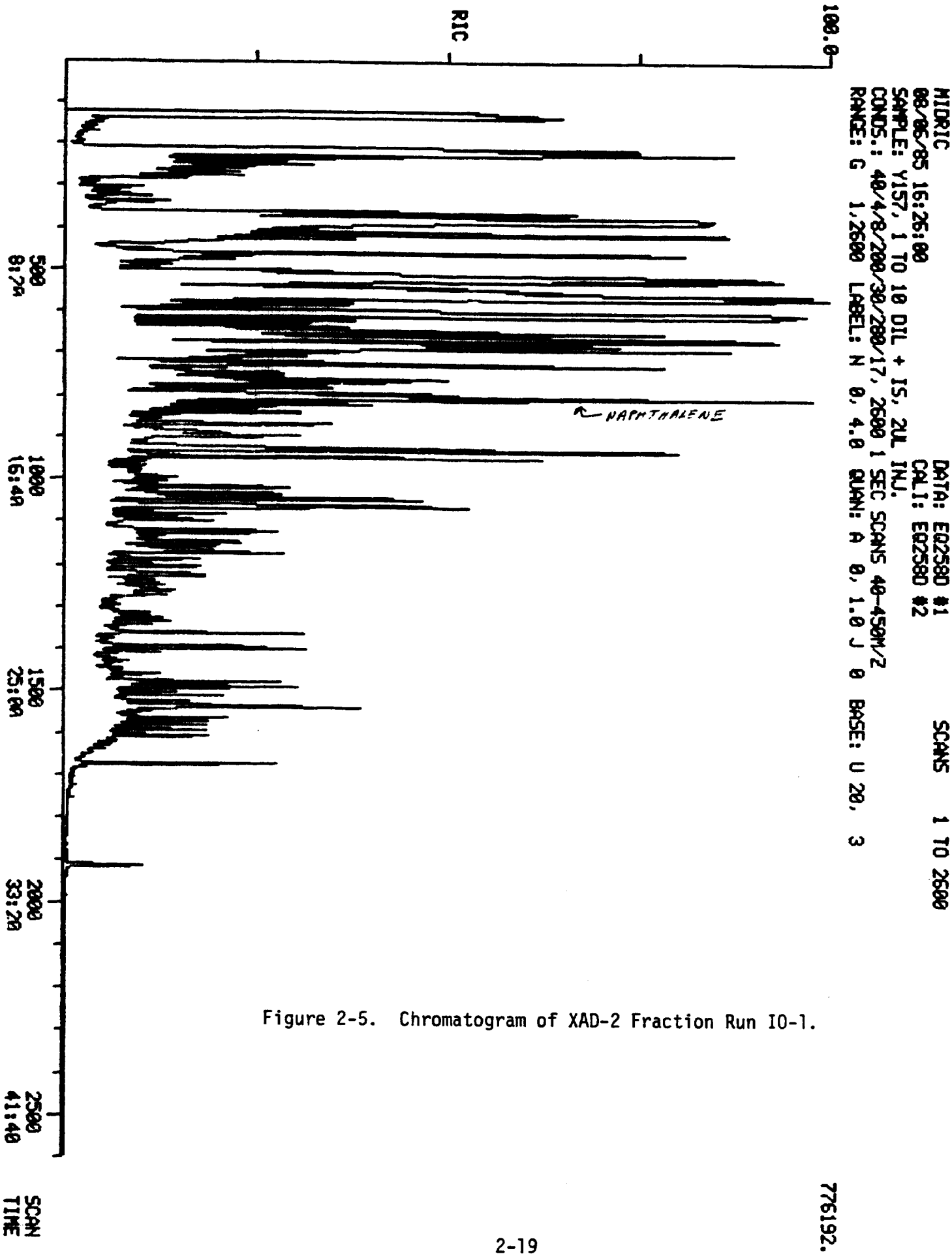

Figure 2-5. Chromatogram of XAD-2 Fraction Run IO-1.

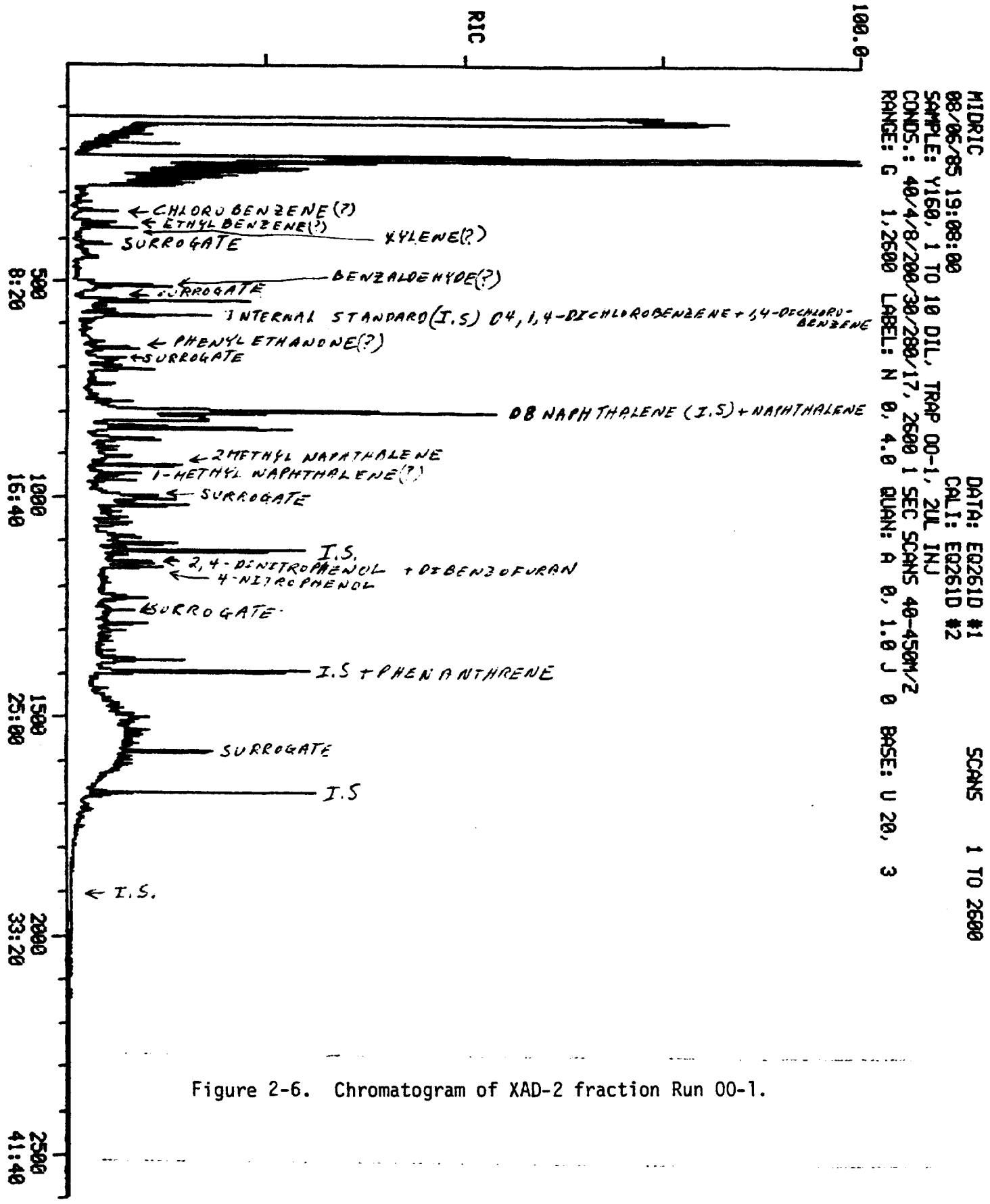

Figure 2-6. Chromatogram of XAD-2 fraction Run 00-1.

the scrubber. The Volatile Organic Sample Train was used for these measurements, and samples had to be taken on different days because of equipment limitations. These samples were taken from two different incinerators because incinerator No. 13 went down after the outlet runs were taken on 6/26/85. Inlet samples were taken from incinerator No. 9 on 6/27/85; therefore, no direct comparisons can be made. These data must be considered estimates because the samples saturated the analytical systems during the analysis; and the nature of the VOST samples precludes dilution or reanalysis.

Tables 2-8 and 2-9 summarize the volatile organic target compounds identified in the scrubber inlet samples. The highest concentrations detected at the inlet were of vinyl chloride (254, 245, and 261 ppb). These concentrations correspond to 0.081, 0.078, and 0.083 lb/h (0.037, 0.035, and 0.038 kg/h). The other compound identified at greater than 100 ppb was acetone (122, 162, 199 ppb), respectively, for the three inlet runs. Nine other compounds were detected at a concentration greater than 10 ppb in at least one sample. Five other volatile target compounds (Table 2-9) were detected at concentrations of less than 10 ppb. The only target compounds identified in the condensate from the VOST samples were acetone and 2 butanone.

Table 2-10 summarizes the other volatile compounds tentatively identified in the inlet VOST samples. These identifications cannot be positively confirmed because of instrument saturation and peak overlap. Figure 2-7 shows the chromatogram of the VOST sample for Run VI-1.

Tables 2-11, 2-12, and 2-13 summarize the concentrations and mass emission rates of the volatile organic target compounds in the scrubber outlet

TABLE 2-8. VOLATILE COMPOUNDS DETECTED AT SCRUBBER INLET AT >10 PPB

Compound	mol wt	Concentration, ppb			Emission rate[a]					
					VI-1		VI-2		VI-3	
		VI-1	VI-2	VI-3	kg/h	lb/h	kg/h	lb/h	kg/h	lb/h
Vinyl chloride[b]	62.50	254	245	261	0.037	0.081	0.035	0.078	0.038	0.083
Chloroethane	64.52	31	4	-	0.005	0.010	0.001	0.001	-	-
Acetone[b,c]	58.08	122	162	199	0.016	0.036	0.022	0.048	0.027	0.059
Carbon disulfide[b]	76.13	52	56	60	0.009	0.020	0.010	0.022	0.011	0.023
Benzene[b]	78.11	89	92	97	0.016	0.035	0.017	0.037	0.017	0.038
Tetrachloroethene[b]	165.85	14	15	14	0.005	0.012	0.006	0.012	0.005	0.012
Toluene[b]	92.13	60	63	66	0.013	0.028	0.013	0.029	0.014	0.031
Chlorobenzene[b]	112.56	22	20	20	0.006	0.012	0.005	0.011	0.005	0.011
Ethylbenzene[b]	106.16	20	16	17	0.005	0.011	0.004	0.009	0.004	0.009
Styrene[b]	104.14	26	-	-	0.006	0.014	-	-	-	-
Total xylenes	106.16	28	26	59	0.007	0.015	0.006	0.014	0.014	0.032
Total	-	-	-	-	0.125	0.274	0.119	0.261	0.135	0.298

[a] Based on an average inlet flow rate of 911 dNm^3/min.

[b] Probably biased low because of instrument saturation.

[c] Acetone equal to 79 ppb per run was found in the combined condensation obtained from Runs VI-1, VI-2, and VI-3 (not included in the table values).

TABLE 2-9. VOLATILE COMPOUNDS DETECTED AT SCRUBBER INLET AT <10 PPB

Compound	mol wt	Concentration, ppb			Emission rate[a]					
					VI-1		VI-2		VI-3	
		VI-1	VI-2	VI-3	kg/h	lb/h	kg/h	lb/h	kg/h	lb/h
Methylene chloride	84.94	2.6	3.4	1.6	0.001	0.001	0.001	0.001	-	0.001
Trans-1, 2-dichloro-ethane	96.95	0.6	0.7	0.6	-	-	-	-	-	-
Chloroform	119.39	0.5	0.4	0.3	-	-	-	-	-	-
Vinyl acetate	86.09	3.2	4.9	5.6	0.001	0.001	0.001	0.002	0.001	0.002
Trichloroethene	131.40	3.5	2.6	2.6	0.001	0.002	0.001	0.002	0.001	0.002
Total	-	-	-	-	0.003	0.004	0.003	0.005	0.002	0.005

[a] 2-Butanone equal to 2.0 ppb per run was found in the combined condensate from Runs VI-1, VI-2, and VI-3 (not included in the table values).

TABLE 2-10. VOLATILE COMPOUNDS TENTATIVELY IDENTIFIED[a] AT SCRUBBER INLET

Compound	VI-1	VI-2	VI-3
2-Butene (cis or trans)	X	X	X
2-Butene (cis or trans)	X	X	X
2-Propenenitrile	X		X
1-Butene	X	X	X
2-Pentene (cis or trans) or cyclopentane	X	X	X
1,1,2-Trichloro-1,2,2-trifluoroethane	X	X	X
2-Pentene (cis or trans)	X	X	X
3-Butene-2-one	X	X	X
Pentane	X	X	X
2-Methyl-2-butene	X	X	X
Thiophene	X	X	X
2-Methylfuran	X	X	X
Cyclohexene	X	X	X
2-Hexene (cis or trans)	X	X	X
1-Hexene or 4-methyl-1-pentene	X	X	X
2-Hexene (cis or trans)	X		
1-Hexanol		X	X
1-Heptene or cycloheptane	X	X	
1-Heptanol			X
1-Octene	X	X	X
Propylbenzene	X	X	X
2,6-Dimethyl-1-heptene	X		
Benzofuran	X	X	X

[a] Identification of these compounds cannot be positively confirmed because of overlapping peaks and instrument saturation.

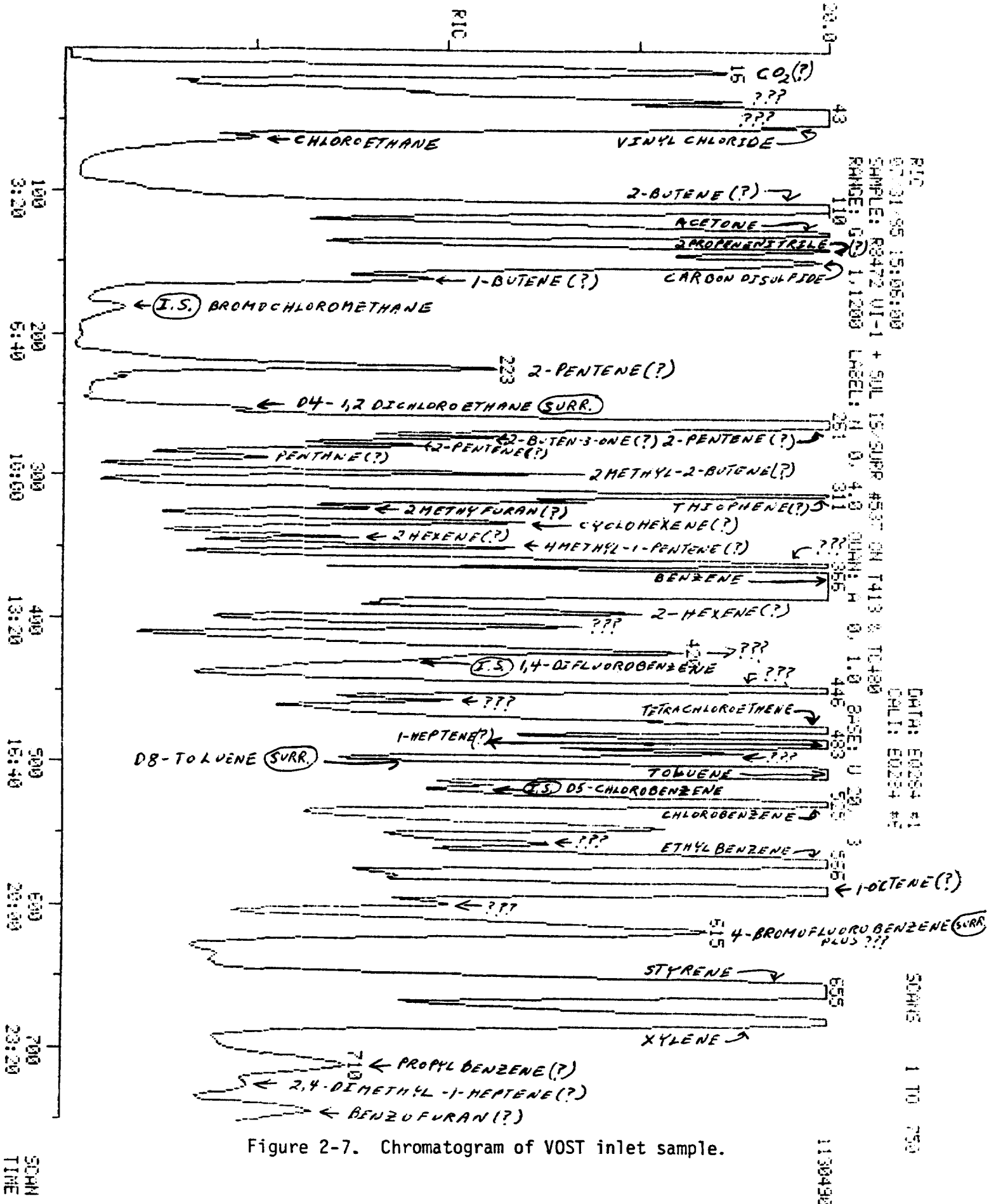

Figure 2-7. Chromatogram of VOST inlet sample.

TABLE 2-11. VOLATILE COMPOUNDS DETECTED AT SCRUBBER OUTLET AT >10 PPB

Compound	mol wt	Concentration, ppb			Emission rate[a]					
					VO-1		VO-2		VO-3	
		VO-1	VO-2	VO-3	kg/h	lb/h	kg/h	lb/h	kg/h	lb/h
Vinyl chloride	62.50	94	92	106	0.018	0.039	0.017	0.038	0.020	0.044
Methylene chloride	84.94	23	25	27	0.006	0.013	0.006	0.014	0.007	0.015
Acetone	58.08	-	38	-	-	-	0.007	0.015	-	-
Carbon disulfide	76.13	18	15	12	0.004	0.009	0.003	0.007	0.003	0.006
2 Butanone	72.10	9	17	8	0.002	0.004	0.004	0.008	0.002	0.004
Trichloroethene[b]	131.40	27	24	20	0.011	0.024	0.010	0.021	0.008	0.018
Benzene[b]	78.11	66	76	69	0.016	0.034	0.018	0.039	0.016	0.036
Tetrachloroethene[b]	165.85	13	13	11	0.007	0.014	0.007	0.014	0.006	0.012
Toluene[b]	92.13	39	49	43	0.011	0.024	0.014	0.030	0.012	0.027
Chlorobenzene[b]	112.56	10	11	11	0.003	0.007	0.004	0.009	0.004	0.008
Total	-	-	-	-	0.078	0.168	0.090	0.195	0.078	0.170

[a] Based on an average outlet flow rate of 1211 dNm^3/min.

[b] Probably biased low because of instrument saturation.

TABLE 2-12. VOLATILE COMPOUNDS DETECTED AT SCRUBBER OUTLET AT <10 PPB

Compound	mol wt	Concentration, ppb			Emission rate[a]					
					VO-1		VO-2		VO-3	
		VO-1	VO-2	VO-3	kg/h	lb/h	kg/h	lb/h	kg/h	lb/h
Chloroethane	64.52	-	-	3.9	-	-	-	-	0.001	0.002
1,1-Dichloroethene	96.95	1.2	0.7	1.2	-	-	-	-	-	-
Trans-1,2-dichloroethane	96.95	1.3	1.2	1.5	-	-	-	-	-	-
Chloroform	119.39	4.5	4.6	6.6	0.002	0.004	0.002	0.004	0.002	0.005
1,1,1-Trichloroethane	133.42	6.5	5.7	5.8	0.003	0.003	0.002	0.005	0.002	0.005
Vinly acetate	86.09	3.1	3.3	3.0	0.001	0.002	0.001	0.002	0.001	0.002
4-Methyl-2-pentanone	100.16	1.7	1.1	0.7	0.001	0.001	-	-	-	-
Ethyl benzene	106.16	6.5	8.7	7.6	0.002	0.005	0.003	0.006	0.002	0.005
Total xylenes	106.16	7.7	9.7	7.9	0.002	0.005	0.003	0.007	0.003	0.006
Total	-	-	-	-	0.011	0.023	0.011	0.024	0.011	0.025

[a] Based on an average outlet flow rate of 1211 dNm^3/min.

TABLE 2-13. VOLATILE COMPOUNDS DETECTED AT SCRUBBER OUTLET AT <1 PPB

Compound	mol wt	Concentration, ppb		
		VO-1	VO-2	VO-3
1,1 Dichloroethane	98.97	0.4	0.4	0.5
Carbon tetrachloride	153.84	-	-	0.3
Bromodichloromethane	163.83	0.4	-	0.4
1,2-Dichloropropane	112.99	0.2	-	-
Trans-1,3-dichloropropene	110.98	-	-	0.1
Dibromo chloromethane	208.29	0.2	0.2	0.2

samples. Vinyl chloride was detected at the highest concentrations--94, 92, and 106 ppb, corresponding to emission rates of 0.039, 0.038, and 0.044 lb/h (0.018, 0.017, and 0.020 kg/h), respectively. Benzene was detected in the next highest concentrations--66, 76, and 69 ppb, corresponding to emission rates of 0.034, 0.039, and 0.036 lb/h (0.016, 0.018, and 0.016 kg/h), respectively. The total emission rates for the 19 volatile target compounds identified at greater than 1 ppb in the three outlet runs were 0.191, 0.219, and 0.195 lb/h (0.089, 0.101, and 0.089 kg/h), respectively.

Table 2-14 summarizes the other volatile compounds tentatively identified in the outlet VOST samples. These identifications cannot be positively confirmed because of instrument calibration and peak overlap. Figure 2-8 shows the chromatogram of the VOST sample for Run VO-1.

TABLE 2-14. VOLATILE COMPOUNDS TENTATIVELY IDENTIFIED[a] AT SCRUBBER OUTLET

Compound	VO-1	VO-2	VO-3
Butanitrile	X		X
2 Propenal			X
2-Propenenitrile	X	X	
1-Butene		X	
Cyclopentane	X		
1,3 Cyclopentadiene			X
1,1,2-Trichloro-1,2,2-trifluoroethane	X	X	
Dimethylcyclopropane (or a pentene)	X	X	X
3-Butene-2-one		X	
Thiophene	X	X	X
Cyclohexene	X	X	X
4 Methyl-1-pentene	X	X	X
3 Methyl-1-pentene		X	
1-Hexanol	X	X	X
Hexane	X	X	X
1 Heptene	X	X	X
1 Octene	X	X	X
Butanoic acid ethenylester		X	
2,6-Diemthyl-1-heptene			X
Propylbenzene	X	X	X
Benzofuran	X	X	X

[a] Identification of these compounds cannot be positively comfirmed because of overlapping peaks and instrument saturation.

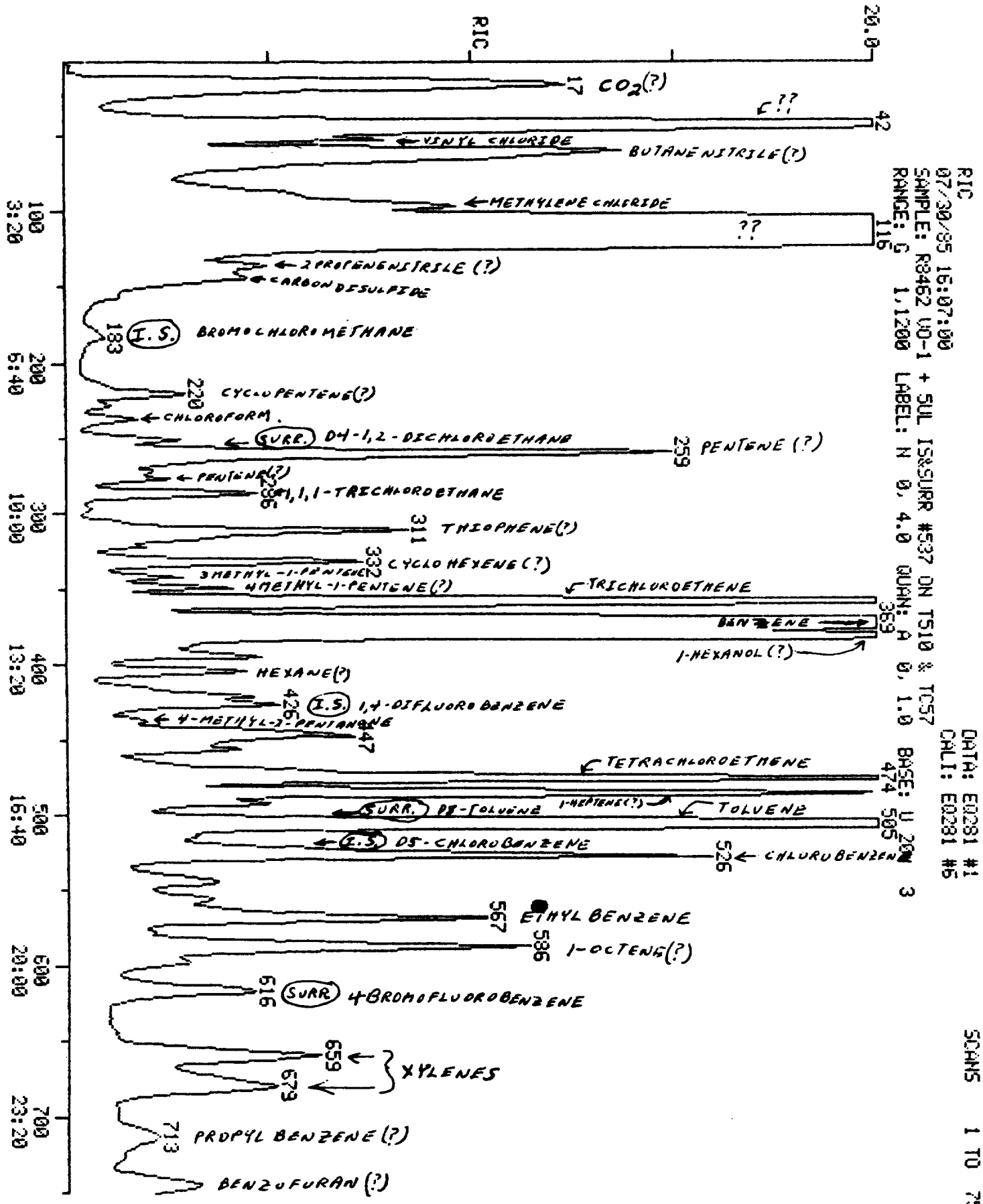

Figure 2-8. Chromatogram of VOST outlet sample.

SECTION 3

PROJECT QUALITY ASSURANCE

The application of quality assurance procedures to source emission measurements ensures accurate emission-testing results. Quality assurance guidelines provide the detailed procedures and actions necessary for defining and producing acceptable data. In this project, three documents were used in the preparation of a source-specific test plan that would ensure the collection of acceptable data: 1) the EPA Quality Assurance Handbook Volume III, EPA-600/4-77-027b; 2) the PEI Emission Test Quality Assurance Plan; and 3) the PEI Laboratory Quality Assurance Plan. Two of these are PEI's general guideline manuals that define the standard operating procedures followed by the company's emission testing and laboratory groups.

In this specific test program, which was reviewed by EPA's Emission Measurement Branch, the following steps were taken to ensure that the testing and analytical procedures produced quality data:

- Calibration of all field sampling equipment.
- Checks of train configuration and calculations.
- Onsite quality assurance checks, such as leak checks of the sampling train, pitot tube, and Orsat line. Onsite quality assurance checks of all test equipment prior to its use.
- Use of designated analytical equipment and sampling reagents.
- Internal and external audits to ensure accuracy in sampling and analysis.

Table 3-1 lists the specific sampling equipment used to perform the organic tests as well as the calibration guidelines and limits. In addition to the pre- and post-test calibrations, a field audit was performed on the metering systems and temperature-measurement devices used during sampling. These data are summarized in Table 3-1, and copies of the field audit data sheets are presented in Appendix B of this report.

The PEI project manager and EPA Task Manager performed the onsite sample calculations, and computer programming was used to validate the data upon return to PEI's Cincinnati laboratory. Minor discrepancies between the hand calculations and computer printouts are due primarily to rounding off of values. Computerized example calculations are presented in Appendix A.

The following subsections summarize the quality assurance activities performed during the analytical phase of this project.

Quality assurance steps for the hydrocarbon monitor included the following:

1) Sample line leak check. The heated sample line was leak-checked before the sampling system was assembled on site for the first time.

2) Daily calibration. The monitor was calibrated at the beginning and end of each day of testing. Pretest calibrations were used to quantify the monitor's responses for the day, and post-test test calibrations were used to verify that the monitor response had remained linear and had not changed significantly during the day. Table 3-2 lists the correlation coefficients for all calibration curves generated during the test program.

3) Sampling system integrity check. At the end of each day's sampling, zero nitrogen and one of the methane standards were sampled through the probe and heated sample line. The monitor's responses for the gas standards sampled this way were compared with responses for the same standards sampled through the monitor's calibration ports to verify that the sampling system was not diluting or contaminating the samples.

TABLE 3-1. FIELD EQUIPMENT CALIBRATION

Equipment	ID No.	Calibrated against	Allowable error	Actual error	Within allow limits	Comments
Meter box	FB 3	Wet-test meter	ΔH@ ±0.15	Y: -0.049	X	Y = 0.990; Audit ΔH@ = 1.89
	FB 4		(Y ±0.05 Y post-test)	Y: -0.036	X	Y = 1.018; Audit ΔH@ = 1.14
	FB10			Y: +0.008	X	Y = 0.947; Audit ΔH@ = 1.21
	FB11			Y: -0.031	X	Y = 1.050; Audit ΔH@ = 1.15
Pitot tube	247	Standard pitot	Cp ± 0.01	0	X	CP = 0.84 per Geometric
	377	tube		0	X	Specifications - Method 2
	403			0	X	
Digital indicator	126	Millivolt signals	0.5%	0.2%	X	
	220			0.3%	X	
	262			0.2%	X	
Thermocouple and stack thermometer	147	ASTM-2F or 3F	1.5% (±2% saturated)	0.1%	X	
	178			0.1%	X	
	257			0.1%	X	
	I-7			0.1%	X	
Impinger thermocouple	I-1	ASTM-2F or 3F	±2%	1°F	X	
	I-9			1°F	X	
Orsat analyzer	141	Standard gas	±0.5%	-0.4%	X	CO_2
				0%	X	O_2
Trip balance	396	Type S weights	±0.5 g	0.1 g	X	
Barometer	406	NBS traceable barometer	±0.10 in.Hg. (0.20 post-test)	0.1 g	X	
				0.1 in.Hg.	X	
Dry gas	FB 3	ASTM-2F or 3F	±5°F	-1.3°F	X	Inlet
				-1.0°F	X	Outlet
	FB 4			-2.0°F	X	Inlet
				-1.0°F	X	Outlet
	FB10			-1°F	X	Inlet
				0°F	X	Outlet
	FB11			-1°F	X	Inlet
				+2°F	X	Outlet
Probe	4-108	Caliper	Dn ±0.04 in.	0.001	X	
	3-109			0.003	X	
	8-108			0.003	X	
	5-112			0.003	X	
	6-113			0.001	X	

TABLE 3-2. CORRELATION COEFFICIENTS FOR HYDROCARBON MONITOR CALIBRATION CURVES

Date	Test No.	Correlation coefficient	
		Pretest	Post-test
6/19	1	0.99995	0.99993
6/20	2	>0.99999	0.99995
6/21	3	0.99993	0.99993
6/22	4	0.99997	0.9998
6/24	5	0.99995	0.9996
6/25	6	0.99996	0.99995
6/26	7	0.99997	0.99997

The GC/MS instruments were checked each day for proper mass assignment with perfluorotributylamine (FC-43) and met the required tuning criteria when using bromofluorobenzene (BFB) or decafluorotriphenylphosphine (DFTPP) as appropriate for the analysis. The results of these checks are contained in Appendix G. The GC/MS instruments were initially calibrated at a minimum of three concentrations plus a blank; and the initial calibration was verified daily. The calibration and continuing calibration checks are presented in Appendix G. The GC/ECD instruments were initially calibrated prior to analysis and after the final samples. A check standard was run after every fifth sample. The results are presented on the Pesticide Evaluation Standards Summary sheets and Pesticide Standards Summary sheets in Appendix G.

Generally, these checks met the criteria developed for water and soil samples. Minor deviations were tolerated because of the screening nature of this study. The reconstructed ion chormatograms (RIC) and quantitation

reports for all samples analyzed are presented in Appendix C. The entire data package, including the library searches of nontarget compound peaks, are presented for one analysis of each sample type in Appendix C. The target compounds for which calibration standards were analyzed include 35 volatiles, 68 semivolatiles, 20 pesticides, and 7 Arochlors (PCB's). Lists of all the target compounds are presented in Appendix D.

All GC/MS samples were quantitated by the internal standard technique. All samples extracted or thermally desorbed were spiked with surrogate compounds to monitor recovery. Tables 3-3, 3-4, and 3-5 summarize the surrogate recoveries. The majority of the volatile surrogate recoveries are within ±20 percent of the expected (100%). Other recoveries were higher than anticipated which may reflect suppressed internal standard response or an interference with the quantitation ion. The majority of the semivolatile surrogate recoveries were within the expected range (30 to 150 percent). Most of the values not in this range were for the XAD-2 extracts, which had to be diluted by a factor of 10 prior to analysis. This dilution decreases the amount of each surrogate compound to a level that makes its quantitation difficult in the presence of the large quantities of other materials in the samples.

Daily system or analysis blanks were run each day volatile analyses were conducted. A VOST trip blank and two field blanks were analyzed. The data sheets for these analyses are in Appendix G. Table 3-6 summarizes the VOST field blank results. The concentrations in the table are based on the average sample volumes of the three inlet samples for the inlet (VI 1-3) field blank and the three outlet samples for the outlet (VO 1-3) field blank. Multiple blanks were extracted and analyzed with the semivolatile samples. The results for these blanks are presented in Appendix G. The most commonly

TABLE 3-3. SURROGATE RECOVERIES FOR VOLATILE ANALYSIS

Sample No.	Percent recovery		
	D4-1,2-Dichloro-ethane	D8-Toluene	4-Bromofluoro-benzene
VI-1	152	90	150
VI-2	155	92	162
VI-3	144	99	119
Condensate VI 1-3	79	102	100
VI-Blank	80	99	117
VO-1	98	88	128
VO-2	101	98	133
VO-3	106	92	134
VO-Blank	97	102	100
Trip blank	101	102	103
Anal. blank 7/30	72	99	87
Anal. blank 7/31	104	102	106
Anal. blank 7/31	102	99	104
Sys. blank 8/1	99	102	107

TABLE 3-4. SURROGATE RECOVERIES FOR SEMIVOLATILE ANALYSIS (percent)

Sample description	2-Fluoro-phenol	D5-Phenol	D5-Nitro-benzene	2-Fluoro-biphenyl	2,4,6-Tribromophenol	D14-Terphenyl
Sludge						
6/25	36	39	44	61	65	78
6/26	41	27	96	98	172	82
Soil blank	100	83	98	102	117	85
Bottom ash						
6/25	91	85	100	101	102	72
6/26	93	88	104	97	99	74
Scrubber influent						
6/25	a	33	61	66	64	66
6/26	a	32	46	50	60	46
Scrubber effluent						
6/25	a	47	55	54	74	34
6/26	a	39	63	65	64	37
H_2O	104	70	38	95	128	154
XAD-2						
PC10-1	111	197	145	177	213	184
PC10-2	120	223	160	185	219	189
PC10-3	a	49	171	181	a	181
PC00-1	a	28	165	178	a	181
PC00-2	a	43	157	168	a	164
PC00-3	a	33	172	193	a	190
Trap blank	92	94	99	117	176	153
Blank	91	110	95	111	111	108
Back-half water						
PC10-1	18	133	127	144	206	132
PC10-2	144	128	153	143	133	a
PC10-3	150	133	151	143	52[b]	136
PC00-1	126	112	137	136	134	134
PC00-2	64	61	146	140	85	133
PC00-3	127	111	151	138	143	129
Blank	a	59	92	102	58	153
Probe rinse from filter PC00-3	109	111	119	115	137	91
Probe rinse blank	48	77	48	88	135	95
Filter blank	a	93	99	113	134	97

TABLE 3-5. SURROGATE RECOVERIES FOR PESTICIDES

Sample	Dibutylchloroendate recovery, %
Sludge	11
Blank soil	62
Scrubber influent	118
Blank water	86

TABLE 3-6. VOST FIELD BLANKS

Compound	Equivalent concentration,[a] ppb	
	VI 1-3	VO 1-3
Vinyl chloride	1.5	1.9
Methylene chloride	1.5	2.2
Acetone	2.5	-
Carbon disulfide	0.6	1.7
2-Butanone	-	1.5
1,1,1-Trichloroethane	-	0.1
Benzene	3.1	1.0
2-Hexanone	-	0.6
4-Methyl-2-pentanone	-	0.1
Toluene	0.2	0.1

[a] Based on average sample volume for the three samples.

found compounds were phthalates. No phthalates are reported for the field samples because they are present in the blanks. Phthalate contamination is not uncommon because of their widespread use as plasticizers. Table 3-7 shows the results for the XAD-2 trap blank returned from the field.

TABLE 3-7. XAD-2 BLANK

Compound	Amount, µg
Benzoic acid	620
Diethyl phthalate	8
Di-N-butylphthalate	5
Din-N-octyl phthalate	18

Charcoal tubes were also taken for volatile compounds. These tubes were desorbed before the VOST samples were analyzed. The purpose of these samples was to determine if the VOST samples were overloaded to the point where they would shut down the GC/MS instrument. This was not the case. If additional sampling is desired at this site, it is recommended that VOST samples be taken at various sample volumes (5, 10, 15, 20 liters) to prevent instrument saturation, that modified Method 5 samples initially be concentrated to 10 ml rather than 1 ml, and that the surrogate spike amounts be adjusted accordingly.

Considering the screening nature of these data, their quality should be more than adequate to determine if more extensive organic sampling should be conducted at this type of facility.

SECTION 4

SAMPLING LOCATIONS AND TEST PROCEDURES

This section describes the sampling sites and the test methods used to characterize organic emissions from the multiple-hearth sludge incinerator.

4.1 SAMPLING LOCATIONS

Samples were extracted from the inlet and outlet ducts of the scrubber at the locations shown in Figures 4-1 and 4-2.

The inlet test site has six 10-cm (4-in.) i.d. sampling ports along the vertical axis in the horizontal duct. These ports are approximately 1.0 m (3 ft 4 in.) downstream from the incinerator and approximately 2.9 m (9.5 ft) upstream from a 90-degree bend in the 2.1 m x 3.1 m (7 ft x 10 ft) rectangular duct. The inlet sampling location did not meet the minimum specifications outlined in EPA Reference Method 1* for sampling port location; however, this was the only available section of the ductwork leading to the scrubber from which samples could be extracted.

The outlet test site has two 10-cm (4-in.) i.d. sampling ports located 90 degrees off center. These ports are approximately 3.7 m (12 ft) downstream from a flow control damper and approximately 9 m (30 ft) upstream from the induced-draft fan in the 1.3-m (4-ft 5-in.) round duct. This location

* 40 CFR 60, Appendix A, Reference Method 1, July 1984.

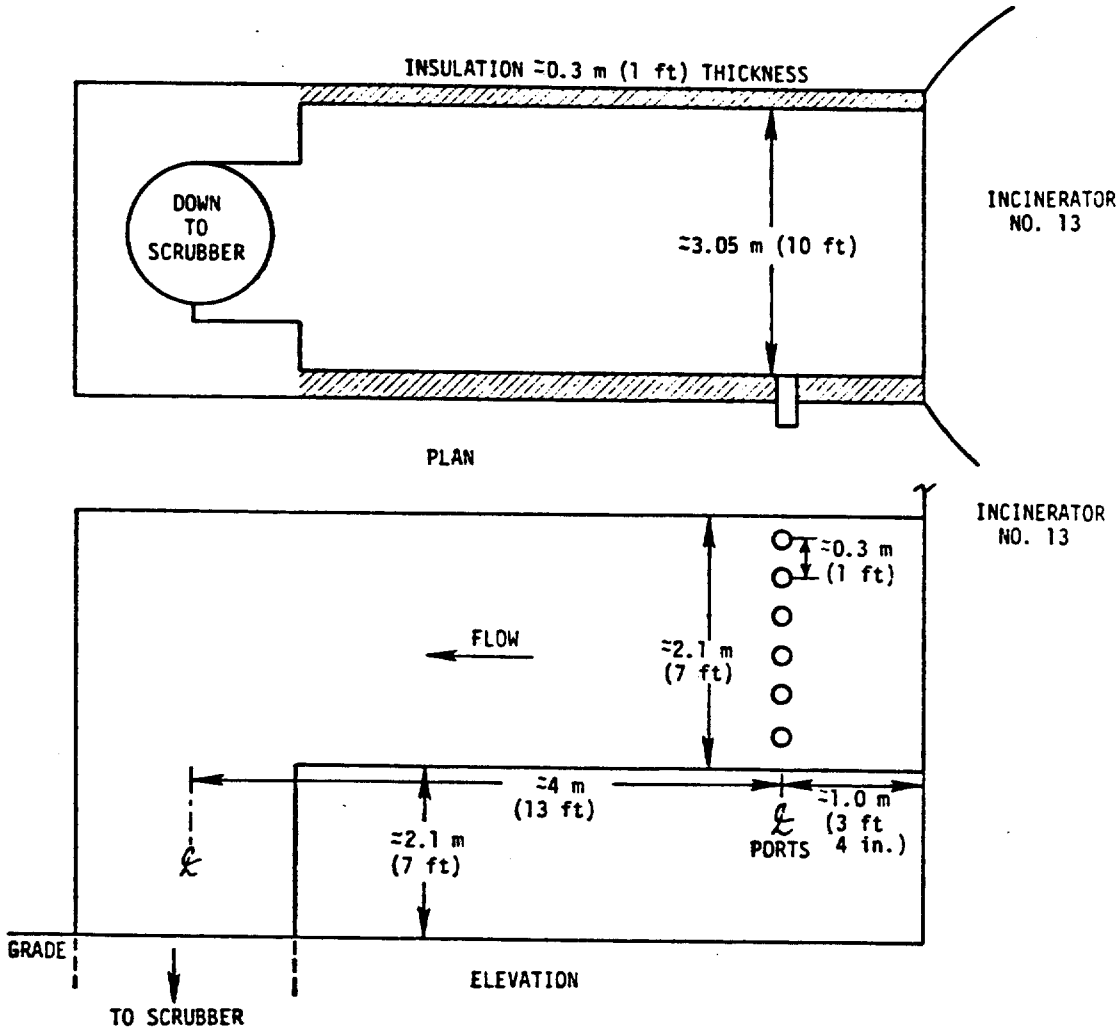

Figure 4-1. No. 13 incinerator inlet sample location (no scale).

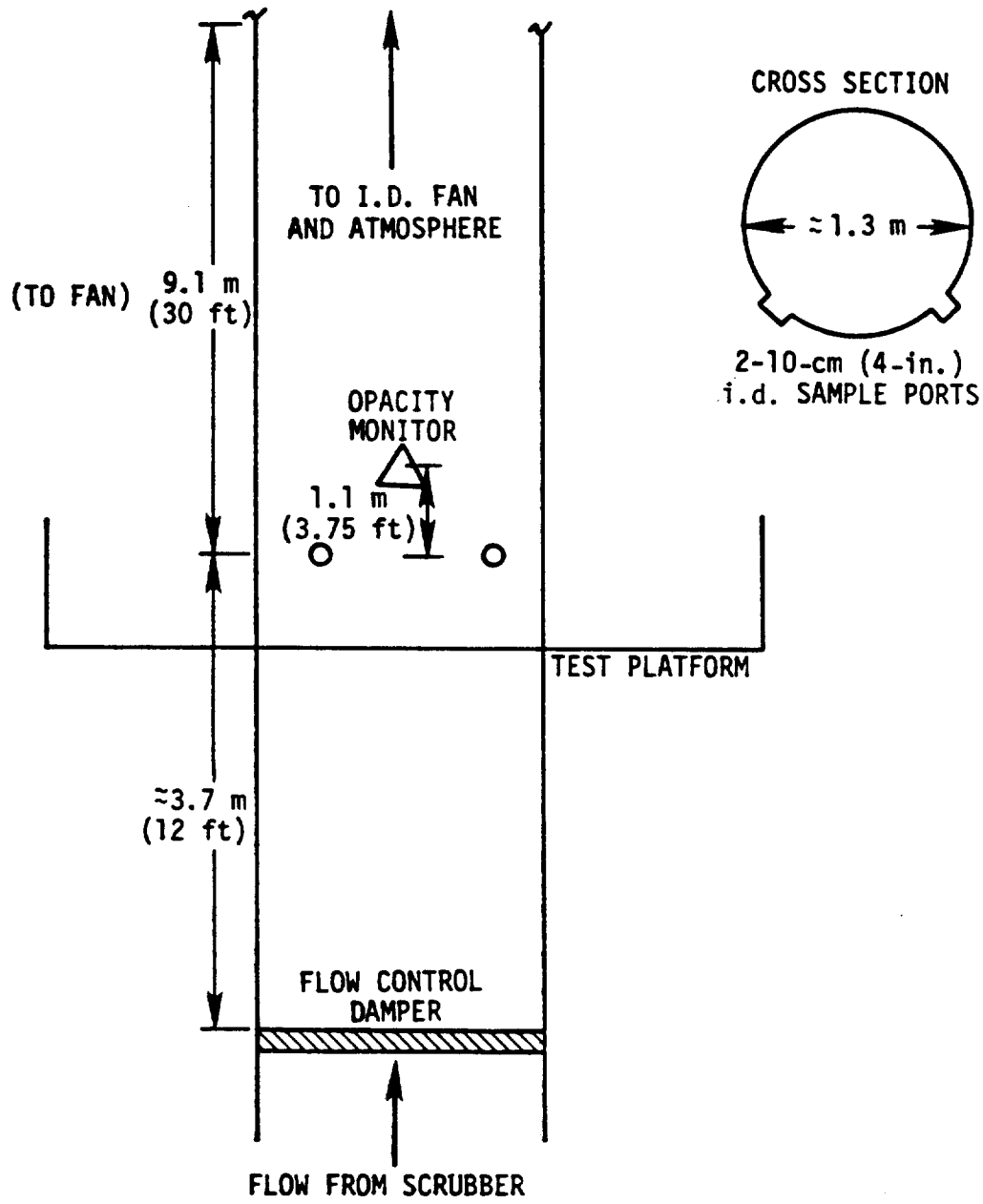

Figure 4-2. No. 13 incinerator scrubber outlet test location.

conforms with specifications detailed in EPA Reference Method 1. No site modifications were required at either location.

Before sampling began, the velocity, static pressure, molecular weight, moisture content, and temperature were measured to define sampling rates and nozzle sizes as described in EPA Reference Methods 1 through 5.* In addition, the degree of turbulent flow at each location was assessed according to procedures described in EPA Reference Method 1. In this method, the face openings of the Type-S pitot tube are aligned perpendicularly to the duct's cross-sectional plane, designated "0-degree reference." Null (zero) pitot readings obtained at a 0-degree reference indicate an acceptable flow condition at a given point.

If the pitot reading is not zero at 0-degree reference, the pitot is rotated (up to 90 degrees ± yaw angle) until a null reading is obtained. The value of the rotation angle (yaw) is recorded for each point and averaged across the duct. Method 2 criteria stipulate that average angular rotations greater than ±10 degrees indicate turbulent (nonaxial) flow conditions in the duct(s). This procedure was used to check several traverse points at each location. In each case, null and/or angular rotations of less than 20-degree pitot readings were observed at the 0-degree reference. These data, together with the velocity and temperature profiles established for each location, indicated generally acceptable flow patterns that would enable the extraction of representative samples at each site.

* 40 CFR 60, Appendix A, Reference Methods 1 through , July 1985.

4.2 DETERMINATION OF SEMIVOLATILE ORGANIC EMISSIONS

A total of six tests (three at each location) were conducted with a modified Method 5 sampling train to determine the semivolatile organics content of the incinerator emission stream.* In this method, an absorbent trap with approximately 25 grams of XAD-2 resin was placed immediately prior to the first impinger. The XAD-2 and impinger contents (H_2O) of these trains were analyzed by GC/MS for semivolatile (heavy) organics. All tests were conducted simultaneously by single-point, isokinetic sampling techniques. Four of the six runs were treated as follows:

- The probe rinse residue and filter fractions were analyzed for particulate loading, $Cr^{\pm 6}$ content, and total Cr by NAA. The back halves (XAD-2 and H_2O) of these trains were extracted and analyzed for heavy organics.
- A single run was conducted at each location, and the entire sampling train (probe residue, filter, XAD-2, and H_2O) was extracted and analyzed for heavy organics by GC/MS. This was done because some heavy organic constituents could be collected in the probe and on the filter. These data were used to validate the back-half data from the previous four tests.

4.2.1 Velocity and Gas Temperature

A Type-S pitot tube and an inclined draft gauge manometer were used to measure the gas velocity pressures at the test sites. Velocity pressures were measured at each sampling point across the duct to determine an average value. Measurements were taken in the manner prescribed in EPA Reference Method 2.** The temperature at each sampling point was measured with a thermocouple and digital readout.

4.2.2 Molecular Weight

Flue gas composition was determined in accordance with the basic procedures described in EPA Reference Method 3.** Grab samples were collected

* Sampling and Analysis Methods for Hazardous Waste Incineration, 1st Edition. EPA Contract No. 68-02-3111, February 1982.

** 40 CFR 60, Appendix A, Reference Methods 2 and 3, July 1984.

prior to the start of sampling to establish baseline contents of oxygen, carbon dioxide, and carbon monoxide. Integrated bag samples were collected during each test and were analyzed with an Orsat gas analyzer. The gas composition at each test site remained reasonably consistent throughout the test series.

4.3 DETERMINATION OF VOLATILE ORGANIC COMPOUNDS

Volatile organic compounds were measured before and after the scrubber with the Volatile Organic Sampling Train.* Three samples were collected at each site. Each represented a pair of sorbent traps: a Tenax trap connected in series with a Tenax/charcoal trap. Analysis for volatile organic compounds was performed by GC/MS.

4.4 TOTAL HYDROCARBONS BY CONTINUOUS EMISSION MONITOR

PEI assembled a total hydrocarbon continuous emission monitor (CEM) at the scrubber outlet for use during the test period. This permitted the generation of a complete characterization of total hydrocarbon emissions and documentation of the effects of short-term variability. A Beckman Model 402 high-temperature hydrocarbon analyzer and strip chart recorder were used for these measurements.

4.5 PROCESS SAMPLES

During each test day, the following process samples were collected:

- Incinerator sludge feed
- Incinerator bottom ash
- Scrubber water influent
- Scrubber water effluent

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* Envirodyne Engineers, Inc. Protocol for Collection and Analysis of Volatile POHC's Using VOST. Prepared for U.S. Environmental Protection Agency. February 1985.

Samples were collected by plant personnel every 15 to 30 minutes over an 8- to 10-hour period. Collection of sludge samples was begun about 30 minutes before the start of testing and continued for about 1 hour after testing was completed. One composite sludge sample was collected over a day-long period.

All sludge and scrubber water samples were subjected to a volatile, fixed, and total residue analysis using EPA methods 160.1, 160.3, and 160.4.* Sludge samples were subjected to a GC/MS analysis similar to that of the actual emission samples. Water samples were also analyzed by GC/MS for semivolatile and volatile organics.

* Methods for Chemical Analysis of Water and Wastes, EPA 600-4-79-020, 3rd Edition, March 1979.

SECTION 5

PROCESS OPERATION

5.1 PROCESS DESCRIPTION

Testing was conducted on the exhaust gases of multiple-hearth sewage sludge Incinerators 13 and 9 in Complex 2 at the City of Detroit Municipal Wastewater Treatment Plant. Each incinerator has 12 hearths that are used to process 12 to 14 megagrams per hour (Mg/h) (13 to 15 tons/h) of blended primary and secondary sludge at a ratio of two parts primary to one part secondary sludge. Primary sludge refers to the solid material that is removed from suspension in untreated wastewater in the initial settling basins. Secondary sludge refers to the solid material resulting from biological treatment of the wastewater that is removed from suspension by subsequent settling basins. The incinerators, which were manufactured by Nichols Engineering Company, were installed in 1972 and have been reworked in the last 2 years.

The incinerators have a rabble arm rotation rate of approximately one revolution per minute. The incinerators typically use combustion air from only the central shaft. They operate at 150 to 300 percent excess air and use natural gas as an auxiliary fuel. Natural gas burners are located on hearths 2, 4, 6, 8, 10, and 12. Sludge combustion takes place primarily on hearths 5 and 6. Each incinerator has an impingement scrubber to remove particulate from the exhaust gases. The impingement scrubbers operate at a pressure drop of approximately 2.4 kilopascals (kPa) (10 in. of water).

5.2 PROCESS CONDITIONS DURING TESTING

Incinerators 13 and 9 were operating at a normal load of approximately 12 to 14 Mg/h (13 to 15 tons/h) during testing. Incinerator 13 was tested the first 8 days, June 18 through 22 and June 24 through 26. This test period included all chromium and arsenic runs and all hydrocarbon runs except one inlet run for volatile organic compounds (VOC's). This VOC test run was conducted on the last day (June 27) on Incinerator 9 rather than Incinerator 13 because a broken bearing prevented sludge feed to Incinerator 13.

The following parameters were recorded every 20 minutes during testing: sludge flow rate; percent oxygen; use of auxiliary combustion air; scrubber damper position, inlet pressure, outlet pressure, and outlet temperature; shaft revolution rate; and the temperature of 10 of 12 of the hearths (one hearth did not have a temperature monitor, and another monitor was malfunctioning during the test period). Tables 5-1 through 5-9 present results of these observations. In addition, Attachments 1 through 9 contain copies of the operator's log, scrubber water flow rates, strip charts of the percent oxygen and hearth temperatures, and 5-minute visible emission observation summaries for each run. These data were compiled by plant personnel. Delays and/or interruptions for the nine testing runs are discussed here.

The start of Run 1 was delayed for approximately 2.5 hours to remove incinerator braces that were blocking access to the outlet ports. Inlet testing during Run 1 was stopped after 0.5 hour into the run because of a failed leak check. During Run 2, inlet testing was halted three times because of cracked probe liners. (As a result of this problem, an in-stack filter was used at the inlet location for the remainder of the testing.) All testing was halted during Run 2 for approximately 1.5 hours because of a

TABLE 5-1. PROCESS DATA FROM RUN NO. 1--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 18, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber gas flow rate, acfm	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
										2	3	4	5	6	7	8	10	11	12
8:30	14.7	7.0	N	41,000	47	-1.2	9.0	50	1.0	925	1050	1094	1400	1497	900	873	196	150	139
8:50	15.5	6.5	N	41,000	46	-1.2	9.2	50	1.0	964	1050	1080	1400	1492	900	882	209	150	142
	START OF TESTING DELAYED DUE TO NEED TO REMOVE BRACES BLOCKING ACCESS TO INLET PORTS																		
9:40	16.2	8.2	N	40,000	49	-1.2	9.0	50	1.0	947	1100	1110	1400	1453	600	650	187	150	136
10:40	13.9	9.0	N	40,000	49	-1.3	9.2	50	1.0	937	1050	1074	1400	1435	660	658	175	150	139
11:00	13.5	7.5	N	38,000	49	-1.2	9.2	48	1.0	950	1050	1072	1350	1352	650	619	169	150	139
11:20	16.5	8.0	N	42,000	49	-1.0	9.2	48	1.0	945	1050	1093	1400	1476	640	601	168	150	140
11:30	START RUN NO. 1																		
11:40	14.5	7.5	N	39,000	49	-1.5	9.2	50	1.0	923	1050	1084	1400	1497	720	695	166	150	140
12:00	INLET RUN (METHOD 5) STOPPED DUE TO FAILED LEAK CHECK																		
12:00	15.1	8.3	N	40,000	49	-1.5	9.2	45	1.0	921	1050	1076	1420	1488	820	810	173	150	140
12:20	15.1	8.5	N	38,000	51	-1.4	9.3	46	1.0	927	1050	1068	1420	1472	800	785	197	150	140
12:40	15.5	8.0	N	38,000	51	-1.2	9.4	48	1.0	936	1050	1077	1420	1506	780	775	206	150	140
1:00	15.5	7.7	N	38,000	51	-1.2	9.4	48	1.0	935	1050	1074	1450	1531	800	775	197	150	140
1:20	16.2	8.0	N	38,000	51	-1.2	9.4	48	1.0	888	1000	1056	1420	1480	830	788	194	150	140
1:40	15.0	5.8	N	34,000	56	-1.4	9.5	48	1.0	914	1050	1080	1400	1440	1100	1058	197	150	140
2:00	17.3	8.8	N	35,000	55	-1.2	9.5	48	1.0	914	1050	1097	1400	1473	860	849	276	150	139
2:20	13.8	8.8	N	36,000	55	-1.4	9.5	48	1.0	894	1000	1042	1350	1340	850	869	233	150	144
2:40	14.9	8.4	N	36,000	55	-1.2	9.5	50	1.0	903	1000	1028	1350	1357	920	903	209	150	143
3:00	15.0	8.0	N	36,000	55	-1.3	9.6	50	1.0	918	1000	1029	1350	1401	950	945	197	150	142
3:20	14.1	7.8	N	Disconnected	58	-1.4	9.6	50	1.0	896	1000	1025	1350	1396	900	889	237	150	145
3:40	14.4	7.6	N	--	59	-1.4	9.8	50	1.0	945	1080	1042	1320	1337	800	785	260	150	148
4:00	13.5	9.5	N	--	60	-1.4	9.8	50	1.0	922	1210	1055	1350	1408	750	722	239	150	150
4:20	14.4	9.5	N	--	60	-1.4	9.8	50	1.0	874	1220	1028	1350	1375	750	705	203	150	148
4:40	15.2	9.5	N	--	60	-1.4	9.8	55	1.0	846	980	1000	1350	1336	880	831	225	150	148
5:00	13.5	9.1	N	--	60	-1.4	9.8	55	1.0	851	950	997	1350	1343	880	856	255	150	148
5:20	15.2	9.7	N	--	60	-1.4	9.8	55	1.0	833	950	995	1350	1348	880	774	296	150	150
5:40	15.6	11.8	N	--	60	-1.4	9.8	60	1.0	783	900	964	1350	1350	800	782	257	150	146
5:45	End all testing																		

TABLE 5-2. PROCESS DATA FROM RUN NO. 2--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 19, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber gas flow rate, acfm	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
										2	3	4	5	6	7	8	10	11	12
8:30	14.2	9	N	Disconnected	59	-1.3	9.0	50	1.0	899	1050	1085	1380	1458	680	644	193	160	159
8:45	START RUN NO. 2 (PROCESS SAMPLING STARTED AT 8:30)																		
8:50	14.9	10.5	N	Disconnected	59	-1.1	9.6	50	1.0	918	1050	1080	1400	1467	720	689	186	160	155
9:10	10.6	8.5	N	Disconnected	62	-1.2	9.5	50	1.0	914	1050	1091	1400	1468	720	712	178	160	156
9:30	14.5	7.8	N	Disconnected	62	-1.3	9.8	50	1.0	906	1000	1052	1350	1388	720	714	175	150	154
9:50	11.3	8.8	N	Disconnected	78	-1.3	9.8	50	1.0	875	1080	1027	1350	1439	720	709	178	160	154
10:10	13.3	8.0	N	Disconnected	60	-1.2	9.8	50	1.0	890	1000	1032	1380	1455	780	773	178	160	160
10:30	12.7	9.0	N	Disconnected	60	-1.2	9.5	50	1.0	902	1000	1052	1350	1416	730	726	174	160	152
10:50	13.4	8.8	N	Disconnected	59	-1.1	9.5	50	1.0	897	1000	1048	1350	1357	720	706	170	150	150
11:00	INLET N5 STOPPED DUE TO CRACKED PROBE LINER																		
11:10	14.3	8.2	N	Disconnected	60	-1.2	9.5	50	1.0	882	1000	1028	1280	1337	820	802	166	160	147
11:30	14.3	7.7	N	Disconnected	60	-1.1	9.5	50	1.0	897	1000	1052	1300	1362	820	808	170	150	148
11:46	BEGAN SECOND INLET N5																		
11:50	14.6	8.2	N	Disconnected	60	-1.1	9.5	50	1.0	877	1000	1027	1250	1339	820	792	173	160	150
12:10	15.9	8.2	N	Disconnected	52	-1.1	9.2	50	1.0	894	1000	1048	1380	1440	880	864	185	180	159
12:30	12.3	8.0	N	Disconnected	59	-1.2	9.0	50	1.0	880	1000	1016	1400	1468	860	836	184	160	162
12:30	STOPPED INLET N5--LINER SEPARATED FROM NOZZLE																		
12:45	INLET N5 RESUMED																		
12:50	16.2	Meter out	N	Disconnected	50	-1.1	9.0	50	1.0	862	1000	1013	1380	1399	860	862	181	160	163
1:05	ALL TESTING HALTED DUE TO FACULTY O_2 ANALYZER																		

(continued)

TABLE 5-2 (continued)

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber gas flow rate, acfm	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
										2	3	4	5	6	7	8	10	11	12
2:30	15.0	8.5	N	Disconnected	50	-1.2	8.0	50	1.0	897	1000	1024	1320	1432	1000	1004	420	175	180
2:37	TESTING RESUMED																		
2:50	14.6	9.5	N	Disconnected	50	-0.9	8.0	50	1.0	854	950	994	1320	1356	1280	1276	260	160	167
3:10	14.6	8.2	N	Disconnected	50	-0.8	8.2	60	1.0	863	950	956	1200	1216	1000	987	278	160	162
3:30	13.0	8.5	N	Disconnected	44	-0.8	8.5	60	1.0	885	920	965	1150	1182	980	929	263	175	163
3:50	10.4	8.5	N	Disconnected	60	-1.2	9.5	55	1.0	892	1000	1020	1320	1398	980	928	230	175	170
4:10	10.6	8.8	N	Disconnected	62	-1.2	9.5	55	1.0	894	975	1004	1300	1352	900	900	209	175	169
4:30	10.8	9.0	N	Disconnected	60	-1.2	9.5	60	1.0	896	1000	1012	1300	1331	920	887	209	175	167
4:45	END TESTING																		

(INLET TESTING STOPPED APPROXIMATELY 3:30--BROKEN LINER)

TABLE 5-3. PROCESS DATA FROM RUN NO. 3--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 20, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:20	15.7	10	N	38	-0.6	7.5	60	1.0	816	1000	1016	1400	1468	1200	780	252	150	150
8:40	12.8	7.5	N	50	-1.0	8.0	55	1.0	844	980	995	1400	1408	1280	1205	260	220	204
8:45	BEGIN RUN NO. 3																	
9:00	12.4	9.0	N	50	-1.1	9.0	55	1.0	879	1000	1029	1380	1478	800	788	284	175	158
9:20	12.5	9.2	N	50	-1.0	9.0	55	1.0	892	1000	1013	1400	1434	700	655	248	175	150
9:40	15.5	9.0	N	50	-1.0	9.0	50	1.0	917	1000	1041	1400	1472	700	696	225	150	146
10:00	16.2	10.5	N	50	-1.0	9.0	55	1.0	886	1000	1027	1380	1432	700	635	209	150	144
10:20	14.2	9.5	N	50	-0.5	8.0	55	1.0	871	1000	1017	1380	1410	650	604	223	150	145
10:40	14.4	6.5	N	49	-1.0	8.7	50	1.0	896	950	992	1250	1279	950	1019	304	150	153
11:00	13.1	8.0	N	60	-1.1	9.5	50	1.0	907	1000	1024	1380	1450	850	814	286	150	146
11:20	14.0	7.5	N	60	-1.0	9.5	50	1.0	928	1020	1077	1380	1446	720	714	260	150	146
11:40	14.2	8.0	N	60	-1.2	9.5	55	1.0	938	1050	1095	1400	1474	680	650	208	150	148
12:00	16.7	9.0	N	58	-1.2	9.5	60	1.0	908	1000	1066	1350	1382	720	696	189	150	148
12:20	13.4	7.5	N	58	-1.2	9.5	50	1.0	931	1020	1077	1380	1450	950	927	191	150	149
12:40	14.0	9.7	N	62	-1.1	9.5	55	1.0	879	1020	1060	1400	1450	880	850	233	150	147
1:00	11.0	8.5	N	60	-1.2	9.5	50	1.0	932	1000	1071	1300	1374	1250	1154	248	150	153
1:20	16.2	9.0	N	60	-0.8	9.0	65	1.0	910	1080	1115	1500	1527	900	896	266	150	157
1:40	11.2	9.5	N	60	-1.3	9.5	60	1.0	885	1020	1053	1400	1464	880	851	250	150	154
2:00	14.3	9.0	N	60	-1.1	9.5	60	1.0	916	1050	1074	1400	1449	1000	995	224	150	155
2:20	13.8	8.5	N	60	-1.0	9.3	65	1.0	887	1020	1064	1420	1464	880	856	238	150	153
2:40	7.8	8.0	N	60	-1.0	9.3	65	1.0	908	1020	1058	1420	1478	900	888	234	150	158
2:54	OUTLET TESTING COMPLETED																	
3:00	13.1	7.8	N	60	-1.1	9.3	65	1.0	904	1020	1082	1400	1472	880	875	284	190	190
3:15	INLET TESTING COMPLETED																	
3:20	14.7	9.2	N	60	-1.0	9.2	65	1.0	903	1020	1082	1420	1433	820	797	232	160	160

TABLE 5-4. PROCESS DATA FROM RUN NO. 4--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 21, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:10	13.8	8.5	N	50	-1.2	9.2	55	1.0	922	1050	1050	1300	1435	850	842	199	150	152
8:30	13.0	8.0	N	50	-1.1	9.0	60	1.0	912	1020	1055	1300	1433	775	753	207	150	145
8:30	BEGIN RUN NO. 4																	
8:50	13.9	9.3	N	50	-1.1	9.0	60	1.0	889	1020	1050	1350	1373	775	728	198	150	145
9:10	14.1	9.0	N	60	-1.2	9.5	55	1.0	917	1050	1074	1350	1407	780	745	182	150	145
9:30	15.9	9.3	N	60	-1.3	9.6	60	1.0	899	1050	1074	1300	1417	725	697	180	150	145
9:50	10.8	8.2	N	60	-1.2	9.6	58	1.0	922	1050	1086	1350	1428	700	772	178	150	146
10:10	14.3	8.5	N	60	-1.2	9.6	60	1.0	901	1050	1082	1300	1435	720	680	185	150	145
10:20	11.5	8.5	N	60	-1.2	9.6	60	1.0	903	1050	1086	1400	1443	700	656	185	150	145
10:40	14.7	10.0	N	60	-1.1	9.5	60	1.0	913	1050	1076	1300	1411	720	896	184	150	146
11:00	12.0	8.2	N	60	-1.2	9.5	60	1.0	898	1050	1081	1300	1444	760	737	186	150	145
11:20	14.7	9.8	N	60	-1.1	9.6	60	1.0	909	1050	1088	1400	1452	800	856	189	150	146
11:40	12.9	8.8	N	60	-1.4	9.5	60	1.0	915	1050	1105	1300	1452	750	726	190	150	146
12:00	12.4	9.5	N	60	-1.3	9.5	60	1.0	919	1050	1078	1400	1414	820	795	190	150	147
12:20	14.0	7.5	N	60	-1.4	9.5	60	1.0	912	1020	1096	1300	1417	850	807	190	160	148
12:40	13.1	8.0	N	60	-1.2	9.5	60	1.0	920	1080	1112	1400	1467	750	729	202	150	148
1:10	11.6	8.5	N	60	-1.3	9.5	65	1.0	906	1080	1098	1400	1434	650	620	191	150	150
1:30	15.7	8.5	N	60	-1.0	9.5	60	1.0	907	1050	1080	1300	1390	675	646	190	150	148
1:50	13.5	8.0	N	60	-1.2	9.5	65	1.0	922	1075	1113	1300	1449	720	678	191	150	152
2:10	13.9	9.0	N	60	-1.3	9.5	65	1.0	911	1050	1098	1300	1446	620	580	189	150	151
2:30	14.3	8.5	N	60	-1.2	9.5	65	1.0	902	1050	1098	1400	1456	620	573	189	150	151
2:35	OUTLET SAMPLING FINISHED																	
2:50	13.9	8.5	N	60	-1.2	9.5	60	1.0	907	1050	1092	1400	1457	620	597	186	150	152
2:55	INLET SAMPLING FINISHED																	

TABLE 5-5. PROCESS DATA FROM RUN NO. 5--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 22, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:20	11.7	10.2	N	69	-0.4	9.2	60	1.0	797	900	947	1350	1371	1050	1040	294	150	153
8:30	BEGIN RUN NO. 5																	
8:40	13.5	9.5	N	69	-0.4	9.2	60	1.0	846	950	989	1290	1291	880	773	285	160	163
9:00	19.1	10.0	N	69	-0.3	9.5	55	1.0	847	980	1005	1280	1311	700	675	263	160	164
9:20	18.5	9.2	N	69	-0.9	9.5	50	1.0	940	1050	1085	1320	1371	650	627	244	150	164
9:40	18.3	10.5	N	69	-0.9	9.5	55	1.0	988	1050	1088	1350	1409	560	521	209	150	160
10:00	19.7	9.5	N	69	-0.8	9.5	50	1.0	880	1000	1068	1350	1431	620	568	209	150	160
10:20	19.0	8.4	N	69	-0.8	9.5	50	1.0	875	1000	1038	1350	1392	750	709	209	160	161
10:40	15.9	8.0	N	69	-1.2	9.6	50	1.0	862	1000	1010	1350	1414	770	737	209	160	160
11:00	17.6	7.5	N	74	-1.0	9.7	50	1.0	891	1000	1015	1280	1298	720	705	208	160	161
11:20	15.8	8.2	N	80	-1.3	10.0	50	1.0	915	1000	1062	1320	1416	700	675	197	160	161
11:40	10.7	9.5	N	80	-1.0	10.0	55	1.0	889	1000	1050	1350	1408	560	530	182	160	161
12:00	12.4	8.5	N	80	-1.2	10.0	55	1.0	885	1000	1045	1350	1378	650	620	174	150	161
12:20	13.2	7.5	N	80	-1.2	10.0	50	1.0	917	1000	1032	1350	1382	720	681	174	160	160
12:50	13.4	9.2	N	80	-1.3	10.0	50	1.0	907	1000	1049	1350	1367	550	507	166	160	160
1:00	14.8	8.8	N	80	-1.3	10.0	50	1.0	918	1000	1057	1350	1391	550	510	165	160	160
1:20	13.5	10.5	N	72	-0.7	9.5	50	1.0	894	1000	1042	1350	1381	520	488	161	160	160
1:40	15.2	8.5	N	72	-1.1	9.8	50	1.0	922	1000	1054	1300	1345	600	557	163	160	160
2:00	17.2	7.0	N	73	-1.0	9.8	50	1.0	957	1000	1068	1300	1356	650	625	164	160	161
2:20	17.4	8.5	N	72	-0.9	9.7	50	1.0	926	1000	1052	1330	1382	500	472	168	160	162
2:40	20.7	8.5	N	72	-0.9	9.8	50	1.0	920	1000	1050	1330	1373	500	445	161	160	163
2:40	END OUTLET M5																	
2:50	END INLET M5																	
2:55	END INLET PARTICLE SIZE																	
3:00	20.8	8.0	N	77	-1.2	10.0	50	1.0	906	1020	1049	1350	1402	560	532	155	160	161
3:20	23.7	9.0	N	69	-1.3	10.0	50	1.0	918	1020	1042	1300	1322	550	510	153	160	160

TABLE 5-6. PROCESS DATA FROM RUN NO. 6--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 24, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:40	20.4	10.0	N	40	-0.4	8.5	65	1.0	873	920	940	1000	1011	725	696	298	150	160
9:00	19.3	10.0	N	63	-1.0	9.5	60	1.0	896	920	953	1320	1431	900	476	232	150	153
9:15	START RUN NO. 6--1 HOUR DELAY DUE TO CALIBRATION OF SLUDGE SCALE																	
9:20	23.1	9.5	N	63	-0.9	9.5	60	1.0	820	900	934	1300	1314	570	546	209	150	152
9:40	17.9	5.7	N	77	-0.9	10.0	50	1.0	912	1000	1029	1360	1427	1298	1220	209	160	153
10:00	21.0	7.0	N	80	-1.1	10.0	50	1.0	957	1000	1044	1390	1412	1200	1192	283	160	155
10:20	19.0	8.8	N	85	-1.3	10.0	55	1.0	981	1100	1105	1500	1695	850	818	265	160	158
10:40	20.7	9.5	N	74	-1.2	9.5	65	1.0	888	1020	1055	1350	1423	850	824	241	160	161
11:00	19.7	6.0	N	86	-1.1	10.0	50	1.0	912	1050	1084	1350	1363	950	954	245	160	163
11:20	18.5	7.2	N	100	-1.1	10.0	55	1.0	899	1050	1095	1500	1993	1120	1107	364	160	163
11:40	1.7	9.5	N	85	-0.6	9.5	65	1.0	802	1000	1058	1500	1546	1000	970	375	160	166
11:45	TESTING HALTED DUE TO BROKEN DRIVE CHAIN FOR SLUDGE FEED																	
1:45	DRIVE CHAIN FIXED																	
2:50	NATURAL GAS LOST TO BURNERS																	
3:00	NATURAL GAS SUPPLY RETURNED																	
3:15	RESUME TESTING																	
3:15	13.0	9.0	N	58	-0.3	7.3	70	1.0	814	930	947	1350	1404	1000	914	286	160	163
3:40	12.1	5.5	N	100	-1.2	10.0	55	1.0	921	1080	1085	1650	1698	1200	1182	273	160	161
4:00	13.2	10.5	N	60	-0.9	9.2	70	0.9	861	1000	1026	1300	1344	750	742	412	150	142
4:20	9.1	10.5	N	60	-0.9	9.2	70	0.9	868	1000	1014	1350	1418	750	715	335	150	147
4:40	11.7	9.5	N	85	-0.9	9.6	65	0.9	882	1000	1031	1388	1436	1000	984	293	150	129
5:00	9.8	10.0	N	59	-1.0	9.5	65	0.9	904	1050	1078	1350	1387	700	707	295	150	152
5:20	12.5	10.0	N	59	-0.9	9.3	65	0.9	943	1000	1028	1280	1274	630	600	263	150	155
5:40	11.6	10.0	N	59	-0.9	9.5	70	0.9	951	1000	1032	1300	1342	550	499	247	180	159
6:00	13.5	12.0	N	59	-1.0	9.5	70	0.9	915	1000	1012	1290	1244	500	475	234	150	151
6:20	12.8	9.0	N	60	-1.0	9.5	65	0.9	944	1000	1029	1290	1281	650	622	246	150	156
6:40	15.8	10.5	N	59	-1.0	9.5	65	0.9	902	1020	1071	1350	1402	650	598	234	160	156
6:45	OUTLET TESTING COMPLETED																	
7:00	15.1	9.0	N	59	-1.0	9.5	65	0.9	907	1050	1080	1350	1450	950	919	229	150	156
7:05	INLET TESTING COMPLETED																	

TABLE 5-7. PROCESS DATA FROM RUN NO. 7--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 25, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:40	12.4	8.5	N	77	-0.9	9.6	95	1.0	856	1000	1021	1400	1437	1050	1027	267	180	195
9:00	15.6	10.0	N	77	-1.2	10.0	95	1.0	843	950	988	1300	1392	1000	955	230	160	152
9:00	BEGIN RUN NO. 7A--HEAVY ORGANICS																	
9:20	13.9	6.0	N	77	-0.8	9.8	90	1.0	927	1000	1052	1450	1544	1080	1076	288	150	153
9:40	9.0	9.0	N	80	-0.9	9.5	80	1.0	865	1000	1019	1300	1405	850	820	287	150	153
10:00	13.2	7.0	N	72	-1.1	10.0	95	1.0	920	1000	1043	1450	1506	1150	1104	245	160	158
10:20	10.2	7.5	N	78	-1.2	10.0	95	1.0	945	1000	1029	1400	1541	900	881	263	160	158
10:40	16.0	8.5	N	78	-0.8	9.6	80	1.0	878	1000	1029	1400	1410	820	799	273	160	154
11:00	13.6	8.0	N	78	-0.8	9.6	80	1.0	880	1000	999	1400	1405	950	899	245	160	160
11:20	12.4	6.5	N	79	-0.9	9.8	95	1.0	897	1000	1000	1430	1450	1100	1075	241	160	160
11:40	13.9	7.5	N	85	-1.2	10.0	95	1.0	933	1000	1051	1450	1515	1080	992	319	160	160
12:00	13.9	7.5	N	78	-1.3	10.0	95	1.0	921	1000	1027	1400	1564	880	837	327	150	161
12:10	END RUN 7A																	
1:40	15.8	10.5	N	72	-1.5	10.0	85	1.0	893	1050	1093	1350	1394	780	761	242	160	163
1:50	BEGIN RUN 7B--HEAVY ORGANICS																	
2:00	14.6	10.5	N	72	-1.6	10.0	70	1.0	799	1000	1027	1520	1611	1130	1134	220	150	152
2:20	14.5	5.0	N	77	-1.0	9.8	90	1.0	936	1020	1065	1300	1358	800	748	372	150	162
2:40	12.4	8.7	N	99	-0.9	9.2	70	1.0	836	1020	1080	1500	1566	900	982	478	160	161
3:00	10.9	8.5	N	50	-0.9	9.4	60	1.0	863	950	962	1180	1161	1400	1278	357	170	170
3:20	14.6	9.0	N	100	-1.4	10.0	85	0.9	830	1000	1012	1400	1479	1180	1219	317	160	175
3:40	13.9	7.0	N	60	-1.0	9.5	85	0.9	890	1000	1027	1350	1360	950	920	329	180	170
4:00	7.1	6.2	N	78	-1.3	9.8	80	0.9	924	1050	1112	1500	1653	1020	1024	265	170	173
4:20	11.7	10.0	N	65	-1.3	9.6	70	0.9	872	1000	1027	1350	1333	850	816	269	170	172
4:40	12.7	9.0	N	65	-1.2	9.6	70	0.9	880	1000	1093	1250	1270	800	781	244	160	169
4:50	END RUN 7B																	

TABLE 5-8. PROCESS DATA FROM RUN NO. 8--INCINERATOR NO. 13, DETROIT, MICHIGAN, JUNE 26, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F									
									2	3	4	5	6	7	8	10	11	12
8:00	14.1	9.5	N	60	-1.1	9.5	60	1.0	864	920	947	1400	1426	920	884	240	160	159
8:20	11.1	7.7	N	60	-1.2	9.5	55	1.0	868	920	953	1350	1386	900	894	231	170	159
8:30	BEGIN RUN NO. 8A--HEAVY ORGANICS																	
8:40	14.4	10.0	N	60	-1.0	9.5	55	1.0	912	950	986	1350	1369	808	792	221	170	156
9:00	14.8	8.0	N	60	-1.1	9.6	60	1.0	889	900	967	1380	1426	780	749	198	160	152
9:20	15.8	8.0	N	60	-1.0	9.5	60	1.0	888	930	960	1350	1385	800	754	193	160	152
9:40	14.7	7.5	N	69	-1.0	9.8	55	1.0	909	950	982	1380	1397	808	757	196	160	153
10:00	14.7	9.0	N	69	-1.2	9.8	60	1.0	857	950	984	1350	1359	760	725	194	160	152
10:20	14.8	8.5	N	69	-1.2	9.8	60	1.0	892	960	992	1350	1396	800	779	185	150	152
10:30	INLET SAMPLING COMPLETED (TESTING STOPPED AFTER 2 HOURS (INSTEAD OF 3) DUE TO HIGH PRESSURE BUILDUP ACROSS SAMPLING TRAIN)																	
10:40	15.0	10.5	N	69	-1.2	10.0	65	1.0	868	980	996	1350	1382	790	723	184	150	151
11:00	12.6	9.3	N	70	-1.1	10.0	65	1.0	836	920	956	1300	1288	730	702	189	160	149
11:20	12.3	5.6	N	56	-1.1	9.5	60	1.0	894	950	980	1350	1407	900	873	199	150	153
11:30	COMPLETED OUTLET SAMPLING																	
12:00	13.8	8.5	N	53	-1.0	9.3	60	1.0	833	930	942	1300	1298	840	808	240	150	154
12:20	12.3	4.9	N	53	-1.1	9.2	55	1.0	918	950	1000	1400	1470	1080	958	226	170	156
12:40	10.4	9.5	N	54	-1.2	9.2	65	1.0	907	950	980	1200	1179	820	793	245	180	158
12:42	BEGIN OUTLET VOST RUNS																	
1:00	14.1	8.3	N	54	-1.1	9.2	65	1.0	930	950	988	1200	1348	720	680	209	160	161
1:20	13.9	7.5	N	55	-0.9	9.2	65	1.0	927	980	1009	1400	1443	760	768	203	180	164
1:40	11.3	7.5	N	55	-1.0	9.2	65	1.0	930	950	994	1350	1368	730	685	199	150	164
2:00	12.5	8.7	N	55	-1.1	9.2	65	1.0	916	1000	1025	1400	1436	850	815	200	170	165
2:20	12.9	7.6	N	55	-1.1	9.3	65	1.0	931	1000	1053	1400	1452	860	842	206	175	167
2:40	11.8	7.0	N	55	-1.0	9.2	65	1.0	925	1000	1026	1400	1467	850	857	204	175	168
2:35	END OUTLET VOST RUNS WITH TENAX AND CHARCOAL--3,20 MINUTE RUNS																	
3:20	11.6	8.5	N	55	-1.1	9.2	70	1.0	924	980	1013	1400	1428	1000	970	209	180	169
3:20	BEGIN OUTLET VOST RUNS WITH CHARCOAL ONLY--2,20 MINUTE RUNS																	
3:40	9.1	7.5	N	60	-1.1	9.5	70	1.0	925	1000	1025	1400	1406	870	852	204	170	169
4:00	12.7	7.5	N	60	-1.1	9.5	70	1.0	907	1000	1028	1400	1465	850	826	205	170	169
4:20	11.7	8.5	N	68	-1.3	9.7	70	1.0	894	950	967	1320	1305	860	852	194	170	169
4:22	END OUTLET VOST RUNS WITH CHARCOAL ONLY																	

TABLE 5-9. PROCESS DATA FROM RUN NO. 9--INCINERATOR NO. 9, DETROIT, MICHIGAN, JUNE 27, 1985

Time	Hopper sludge flow rate, wet tons/h (6 min avg.)	Oxygen, %	Aux. combustion air, yes/no	Scrubber damper position, percent open	Scrubber inlet pressure, in. w.c.	Scrubber exhaust pressure, in. w.c.	Scrubber outlet temp., °F	Shaft, rpm	Hearth temperature, °F										
									2	3	4	5	6	7	8	9	10	11	12
8:00	8.4	10.0	N	69	-1.0	10.5	10	1.0	814	980	1020	1350	1336	1320	1290	300	--	180	154
8:20	9.0	8.5	N	69	-1.2	10.3	10	1.0	830	980	1024	1350	1312	1550	1550	380	--	290	175
8:40	12.7	10.0	Y	70	-1.1	10.7	10	1.0	904	900	1050	1450	1430	1400	1388	600	--	200	170
8:58	BEGIN VOST INLET RUNS																		
9:00	17.7	11.5	N	61	-1.1	9.2	10	1.0	873	900	1046	1430	1436	1170	1150	470	--	200	163
9:20	12.3	10.5	N	70	-1.1	10.8	10	1.0	876	920	1039	1450	1439	1400	1180	380	--	170	154
9:40	14.0	9.5	N	70	-1.0	11.0	10	1.0	891	950	990	1400	1331	1250	1246	400	--	170	157
10:00	13.8	8.5	N	70	-1.1	11.0	10	1.0	903	950	1096	1450	1426	1250	1224	350	338[a]	200	167
10:20	10.8	8.5	N	70	-0.9	11.0	10	1.0	927	900	1025	1400	1335	1300	1209	350	338	200	168
10:40	12.8	9.5	N	70	-1.0	11.0	10	1.0	924	970	1116	1500	1534	1600	1596	350	319	200	166
11:00	11.8	8.5	N	70	-0.9	11.0	10	1.0	930	900	1055	1400	1368	1300	1284	350	334	200	170
11:20	12.8	9.5	N	70	-1.0	11.0	10	1.0	907	900	1024	1450	1401	1600	1610	400	394	200	168
11:40	11.4	8.5	N	70	-0.9	11.0	10	1.0	942	950	1080	1450	1440	1450	1412	400	371	200	169
11:45	END VOST INLET RUNS																		

[a]Temperature probe repaired.

faulty O_2 analyzer. No problems were encountered during Runs 3 through 5. The start of Run 6 was delayed approximately 1 hour to calibrate the sludge feed scale. In addition, testing was halted during Run 6 for approximately 3.5 hours because of a broken sludge feed drive chain and loss of the natural gas feed. No problems were encountered during Run 7. During Run 8, the inlet heavy organics run was stopped after 2 hours, 1 hour short of scheduled completion, because of a high pressure buildup across the sampling train. No problems were encountered during Run 9, which was the last run.

5.3 CONCLUSIONS

All processes operated normally during emission testing. Personnel from the city of Detroit were very cooperative.

APPENDIX A

COMPUTER PRINTOUTS

PEI ASSOCIATES, INC.
EMISSION TEST REPORT

FIELD DATA

Plant .....DETROIT WSD
Sampling location .....#13 INLET
Test time (start-stop) 910-1210

Date 6/25/85
Run number PCIC-1

Sample type .....PART/ORGANICS
Bar. pressure (in-HG) 29.70
Static pressure (in-H2O) .....-1.1
Filter number(s) 5300021
Stack dimensions (in) .....120 / 84
Pitot tube coeff. 84
Total H2O collected (ml) 494.7
Percent O2 by volume (dry) ...11.8

Leakage (cu-ft) 0
Meter calibration factor 1.033
Data interval (min) 15
Nozzle dia. 373
Meter box number FB4
Number of traverse points 12
Percent CO2 by volume (dry) ..5.9
Percent CO by volume (dry) .....

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H2O)	Orifice drop-act. (in. H2O)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	779.043					
15.0	784.270	0.080	0.29	895	94	94
30.0	789.400	0.080	0.28	955	96	94
45.0	794.650	0.080	0.30	894	100	96
60.0	799.780	0.080	0.29	923	104	98
75.0	805.300	0.080	0.29	945	106	100
90.0	810.640	0.080	0.29	958	107	101
105.0	816.300	0.080	0.30	882	107	101
120.0	821.420	0.080	0.29	903	108	102
135.0	826.730	0.080	0.29	914	108	103
150.0	831.940	0.080	0.29	921	108	103
165.0	837.190	0.080	0.29	960	108	104
180.0	842.527	0.080	0.29	962	109	104
180.0	63.484	0.080	0.29	926	105	100

OK DM
7/12/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSD
TEST: PCIO-1 / #13 INLET

TEST DATE: 6/25/85
TEST TIME: 910-1210

TT	.....	Net time of test (min)	180.0
NP	.....	Net sampling points	12
Y	.....	Meter calibration factor	1.033
DN	.....	Sampling nozzle dia (in)	0.373
CP	.....	Pitot tube coefficient	0.840
PM	.....	Average orifice pressure drop (in-H2O)	0.29
VM	.....	Volume of dry gas sampled at meter conditions (cu-ft)	63.484
TM	.....	Average gas meter temperature (deg F)	102.3
VMSTD	.....	Volume of dry gas sampled at standard conditions (scf)	61.171
VLC	.....	Total H2O collected in impingers and silica gel (ml)	494.7
VWC	.....	Volume of water vapor at standard conditions (scf)	23.286
BWO	.....	Percent moisture by volume (saturation check made)	27.57
FMD	.....	Mole fraction of dry gas	0.72
PCO2	.....	Percent CO2 by volume (dry)	5.900
PO2	.....	Percent O2 by volume (dry)	11.800
PCO	.....	Percent CO by volume (dry)	0.000
PN2	.....	Percent N2 by volume (dry)	82.300
MD	.....	Molecular weight - dry stack gas	29.42

TEST RESULTS

MWS	.....	Molecular weight - stack gas	26.27
PB	.....	Barometric pressure (in-HG)	29.70
PSI	.....	Static pressure of stack gas (in-H2O)	-1.100
PS	.....	Stack pressure - absolute (in-HG)	29.62
TS	.....	Average stack temperature (deg F)	926
VH	.....	Average square root of velocity head (in-H2O)	0.283
VS	.....	Average stack gas velocity (fps)	27.1
AS	.....	Stack area (sq in)	10,080
QS	.....	Actual stack flow rate (acfm)	113,859
QSSTD	.....	Stack flow rate - dry (scfm)	31,100
ISO	.....	Percent isokinetic	100.8
MN	.....	PARTICULATE COLLECTED, MG	3145.7
CS	.....	PARTICULATE COLLECTED, GR/DSCF	0.7935
PMR	.....	PARTICULATE COLLECTED Emission rate, lb/hr	211.549

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

F I E L D D A T A

Plant .....DETROIT WSD
Sampling location .....#13 INLET
Test time (start-stop) 1350-1650

Date 6/25/85
Run number PCIO-2

Sample type .....PART./ORGANICS
Bar. pressure (in-HG) 29.70
Static pressure (in-H2O) .....-1.1
Filter number(s) 5300004/TH-40
Stack dimensions (in) .....120 / 84
Pitot tube coeff. 84
Total H2O collected (ml) 498.4
Percent O2 by volume (dry) ...12.25

Leakage (cu-ft) 4.5
Meter calibration factor 1.033
Data interval (min) 15
Nozzle dia. 373
Meter box number FB4
Number of traverse points 12
Percent CO2 by volume (dry) ..5.75
Percent CO by volume (dry) ...0

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H2O)	Orifice drop-act. (in. H2O)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	843.046					
15.0	849.091	0.080	0.35	860	101	100
30.0	855.030	0.080	0.35	823	101	100
45.0	861.000	0.080	0.33	918	107	102
60.0	866.930	0.080	0.36	815	110	104
75.0	872.980	0.080	0.36	841	112	106
90.0	879.100	0.080	0.34	892	113	107
105.0	885.140	0.080	0.36	819	114	108
120.0	891.120	0.080	0.35	885	114	108
135.0	896.970	0.080	0.33	934	115	109
150.0	903.020	0.080	0.34	893	117	109
165.0	908.930	0.080	0.34	886	116	110
180.0	914.968	0.080	0.34	879	115	110
180.0	71.922	0.080	0.35	870	111	106

Ok D.A
7/10/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSD
TEST: PC10-2 / #13 INLET

TEST DATE: 6/25/85
TEST TIME: 1350-1650

TT	.....	Net time of test (min)	180.0
NP	.....	Net sampling points	12
Y	.....	Meter calibration factor	1.033
DN	.....	Sampling nozzle dia (in)	0.373
CP	.....	Pitot tube coefficient	0.840
PM	.....	Average orifice pressure drop (in-H2O)	0.35
VM	.....	Volume of dry gas sampled at meter conditions (cu-ft) (corrected for leakage)	67.422
TM	.....	Average gas meter temperature (deg F)	108.7
VMSTD	.....	Volume of dry gas sampled at standard conditions (scf)	64.246
VLC	.....	Total H2O collected in impingers and silica gel (ml)	498.4
VWC	.....	Volume of water vapor at standard conditions (scf)	23.460
BWO	.....	Percent moisture by volume (saturation check made)	26.75
FMD	.....	Mole fraction of dry gas	0.73
PCO2	.....	Percent CO2 by volume (dry)	5.750
PO2	.....	Percent O2 by volume (dry)	12.250
PCO	.....	Percent CO by volume (dry)	0.000
PN2	.....	Percent N2 by volume (dry)	82.000
MD	.....	Molecular weight - dry stack gas	29.41

TEST RESULTS

MWS	.....	Molecular weight - stack gas	26.36
PB	.....	Barometric pressure (in-HG)	29.70
PSI	.....	Static pressure of stack gas (in-H2O)	-1.100
PS	.....	Stack pressure - absolute (in-HG)	29.62
TS	.....	Average stack temperature (deg F)	870
VH	.....	Average square root of velocity head (in-H2O)	0.283
VS	.....	Average stack gas velocity (fps)	26.5
AS	.....	Stack area (sq in)	10,080
QS	.....	Actual stack flow rate (acfm)	111,363
QSSTD	.....	Stack flow rate - dry (scfm)	32,049
ISO	.....	Percent isokinetic	102.8
MN	.....	PARTICULATE COLLECTED, MG	3602.5
CS	.....	PARTICULATE COLLECTED, GR/DSCF	0.8652
PMR	.....	PARTICULATE COLLECTED Emission rate, lb/hr	237.713

PEI ASSOCIATES, INC.
EMISSION TEST REPORT

FIELD DATA

Plant .....DETROIT WSD
Sampling location .....#13 OUTLET
Test time (start-stop) 911-1211

Date 6/25/85
Run number PCOO-1

Sample type .....PART./ORGANICS
Bar. pressure (in-HG) .....29.7 /
Static pressure (in-H2O) .....-11.8
Filter number(s) 5300018
Stack inside dia. (in) 53
Pitot tube coeff. 84
Total H2O collerted (ml) 109
Percent O2 by volume (dry) ...20.0 /

Leakage (cu-ft) 0
Meter calibration factor 1.005
Data interval (min) 10
Nozzle dia. 193
Meter box number FB3
Number of traverse points 18
Percent CO2 by volume (dry) ..4.9 /
Percent CO by volume (dry) ...0 /

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H2O)	Orifice drop-act. (in. H2O)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	769.280					
10.0	773.870	0.650	0.93	90	92	90
20.0	779.087	0.650	0.91	99	96 /	90
30.0	784.313	0.650	0.93	95	100	92
40.0	788.586	0.390	0.56	93	103	93
50.0	792.698	0.390	0.56	94	104	95
60.0	796.685	0.360	0.51	98	105	96
70.0	801.683	0.650	0.93	99	106	97
80.0	806.983	0.650	0.93	99	108	98
90.0	812.248	0.650	0.93	97	109	99
100.0	817.698	0.680	0.99	93	109	100
110.0	823.282	0.700	1.01	95	110	100
120.0	828.680	0.680	0.99	93	110	100
130.0	834.161	0.680	0.99	95	110	102
140.0	839.587	0.670	0.97	97	110	102
150.0	844.916	0.650	0.94	99 /	111 /	102 /
160.0	850.401	0.700	1.01	101 /	112 /	102 /
170.0	855.604	0.690	0.84	95	112	102
180.0	860.914	0.650	0.94	97	112	102
180.0	91.634	0.613	0.88	96	107	98

OK DM
7/12/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSD
TEST: PCOO-1 / #13 OUTLET

TEST DATE: 6/25/85
TEST TIME: 911-1211

TT	.....	Net time of test (min)	180.0
NP	.....	Net sampling points	18
Y	.....	Meter calibration factor	1.005
DN	.....	Sampling nozzle dia (in)	0.193
CP	.....	Pitot tube coefficient	0.840
PM	.....	Average orifice pressure drop (in-H2O)	0.88
VM	.....	Volume of dry gas sampled at meter conditions (cu-ft)	91.634
TM	.....	Average gas meter temperature (deg F)	102.3
VMSTD	.....	Volume of dry gas sampled at standard conditions (scf)	86.033
VLC	.....	Total H2O collected in impingers and silica gel (ml)	109.0
VWC	.....	Volume of water vapor at standard conditions (scf)	5.131
BWO	.....	Percent moisture by volume (saturation check made)	5.63
FMD	.....	Mole fraction of dry gas	0.94
PCO2	.....	Percent CO2 by volume (dry)	4.900
PO2	.....	Percent O2 by volume (dry)	15.100
PCO	.....	Percent CO by volume (dry)	0.000
PN2	.....	Percent N2 by volume (dry)	80.000
MD	.....	Molecular weight - dry stack gas	29.39

TEST RESULTS

MWS	Molecular weight - stack gas	28.75
PB	Barometric pressure (in-HG)	29.70
PSI	Static pressure of stack gas (in-H2O)	-11.800
PS	Stack pressure - absolute (in-HG)	28.83
TS	Average stack temperature (deg F)	96
VH	Average square root of velocity head (in-H2O)	0.783
VS	Average stack gas velocity (fps)	46.1
AS	Stack area (sq in)	2,206
QS	Actual stack flow rate (acfm)	42,340
QSSTD	Stack flow rate - dry (scfm)	36,561
ISO	Percent isokinetic	98.6
MN	PARTICULATE COLLECTED, MG	51.1
CS	PARTICULATE COLLECTED, GR/DSCF	9.1647E-03
PMR	PARTICULATE COLLECTED Emission rate, lb/hr	2.872

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

F I E L D D A T A

Plant .....DETROIT WSD
Sampling location .....#13 OUTLET
Test time (start-stop) 1350-1650

Date 6/25/85
Run number PCDD-2

Sample type .....PART./ORGANICS
Bar. pressure (in-HG) 29.75
Static pressure (in-H2O) .....-11.8
Filter number(s) 5300024
Stack inside dia. (in) 53
Pitot tube coeff. 84
Total H2O collected (ml) 106.2
Percent O2 by volume (dry) ...15.1

Leakage (cu-ft) 0
Meter calibration factor 1.005
Data interval (min) 10
Nozzle dia. 193
Meter box number FB3
Number of traverse points 18
Percent CO2 by volume (dry) ..4.8
Percent CO by volume (dry) ...0

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H2O)	Orifice drop-act. (in. H2O)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	861.215					
10.0	866.290	0.650	0.92	100	100	96
20.0	871.430	0.600	0.87	90	102	98
30.0	875.940	0.450	0.66	87	106	98
40.0	880.880	0.550	0.78	105	108	100
50.0	886.190	0.700	1.00	101	112	100
60.0	890.720	0.430	0.63	93	112	100
70.0	895.230	0.450	0.66	91	114	102
80.0	899.490	0.400	0.59	92	115	104
90.0	903.790	0.400	0.58	100	116	104
100.0	909.910	0.850	1.24	96	116	106
110.0	915.870	0.770	1.13	93	118	106
120.0	920.530	0.450	0.66	96	118	107
130.0	925.110	0.450	0.66	99	118	108
140.0	930.650	0.700	1.02	100	118	108
150.0	936.217	0.700	1.03	95	120	108
160.0	941.521	0.610	0.90	95	120	109
170.0	946.475	0.530	0.77	101	120	109
180.0	951.532	0.560	0.83	92	120	109
180.0	90.317	0.562	0.83	96	114	104

OK DM 7/12/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSD
TEST: PCOO-2 / #13 OUTLET

TEST DATE: 6/25/85
TEST TIME: 1350-1650

TT	Net time of test (min)	180.0
NP	Net sampling points	18
Y	Meter calibration factor	1.005
DN	Sampling nozzle dia (in)	0.193
CP	Pitot tube coefficient	0.840
PM	Average orifice pressure drop (in-H20)	0.83
VM	Volume of dry gas sampled at meter conditions (cu-ft)	90.317
TM	Average gas meter temperature (deg F)	109.0
VMSTD	Volume of dry gas sampled at standard conditions (scf)	83.917
VLC	Total H20 collected in impingers and silica gel (ml)	106.2
VWC	Volume of water vapor at standard conditions (scf)	4.999
BWO	Percent moisture by volume (saturation check made)	5.62
FMD	Mole fraction of dry gas	0.94
PCO2	Percent CO2 by volume (dry)	4.800
PO2	Percent O2 by volume (dry)	15.100
PCO	Percent CO by volume (dry)	0.000
PN2	Percent N2 by volume (dry)	80.100
MD	Molecular weight - dry stack gas	29.37

TEST RESULTS

MWS	.....	Molecular weight - stack gas	28.73
PB	.....	Barometric pressure (in-HG)	29.75
PSI	.....	Static pressure of stack gas (in-H2O)	-11.800
PS	.....	Stack pressure - absolute (in-HG)	28.88
TS	.....	Average stack temperature (deg F)	96
VH	.....	Average square root of velocity head (in-H2O)	0.750
VS	.....	Average stack gas velocity (fps)	44.1
AS	.....	Stack area (sq in)	2,206
QS	.....	Actual stack flow rate (acfm)	40,500
QSSTD	.....	Stack flow rate - dry (scfm)	35,046
ISO	.....	Percent isokinetic	100.3
MN	.....	PARTICULATE COLLECTED, MG	55.3
CS	.....	PARTICULATE COLLECTED, GR/DSCF	0.0102
PMR	.....	PARTICULATE COLLECTED Emission rate, lb/hr	3.055

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

F I E L D D A T A

Plant .....DETROIT WSD
Sampling location .....013 INLET
Test time (start-stop) 834-1034

Date 6/26/85
Run number PC10-3

Sample type .....ORGANICS
Bar. pressure (in-HG) 29.62
Static pressure (in-H2O) .....-1.1
Filter number(s) 5300003
Stack dimensions (in) .....120 / 84
Pitot tube coeff. 84
Total H2O collected (ml) 326.2
Percent O2 by volume (dry) ...13.15

Leakage (cu-ft) 2.52
Meter calibration factor 1.033
Data interval (min) 15
Nozzle dia. 373
Meter box number FB4
Number of traverse points 8
Percent CO2 by volume (dry) ..4.9
Percent CO by volume (dry) ...0

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H2O)	Orifice drop-act. (in. H2O)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	915.550					
15.0	921.290	0.080	0.33	915	96	96
30.0	926.950	0.080	0.32	955	100	96
45.0	932.740	0.080	0.33	924	102	98
60.0	938.550	0.080	0.33	924	104	100
75.0	944.370	0.080	0.33	943	108	100
90.0	950.300	0.080	0.34	894	108	102
105.0	956.130	0.080	0.34	894	108	102
120.0	962.969	0.080	0.33	943	110	104
120.0	47.419	0.080	0.33	924	105	100

CK DM
7/16/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSO
TEST: PC10-3 / #13 INLET

TEST DATE: 6/26/85
TEST TIME: 834-1034

TT	.....	Net time of test (min)	120.0
NP	.....	Net sampling points	8
Y	.....	Meter calibration factor	1.033
DN	.....	Sampling nozzle dia (in)	0.373
CP	.....	Pitot tube coefficient	0.840
PM	.....	Average orifice pressure drop (in-H2O)	0.33
VM	.....	Volume of dry gas sampled at meter conditions (cu-ft) (corrected for leakage)	44.899
TM	.....	Average gas meter temperature (deg F)	102.1
VMSTD	.....	Volume of dry gas sampled at standard conditions (scf)	43.164
VLC	.....	Total H2O collected in impingers and silica gel (ml)	326.2
VWC	.....	Volume of water vapor at standard conditions (scf)	15.354
BWO	.....	Percent moisture by volume (saturation check made)	26.24
FMD	.....	Mole fraction of dry gas	0.74
PCO2	.....	Percent CO2 by volume (dry)	4.900
PO2	.....	Percent O2 by volume (dry)	13.150
PCO	.....	Percent CO by volume (dry)	0.000
PN2	.....	Percent N2 by volume (dry)	81.950
MD	.....	Molecular weight - dry stack gas	29.31

TEST RESULTS

MWS	.....	Molecular weight - stack gas	26.34
PB	.....	Barometric pressure (in-HG)	29.62
PSI	.....	Static pressure of stack gas (in-H2O)	-1.100
PS	.....	Stack pressure - absolute (in-HG)	29.54
TS	.....	Average stack temperature (deg F)	924
VH	.....	Average square root of velocity head (in-H2O)	0.283
VS	.....	Average stack gas velocity (fps)	27.1
AS	.....	Stack area (sq in)	10,080
QS	.....	Actual stack flow rate (acfm)	113,771
QSSTD	.....	Stack flow rate - dry (scfm)	31,608
ISO	.....	Percent isokinetic	105.0

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

F I E L D D A T A

Plant .....DETROIT WSD
Sampling location .....#13 OUTLET
Test time (start-stop) 831-1131

Date 6/26/85
Run number PC00-3

Sample type .....ORGANIC
Bar. pressure (in-HG) 29.62
Static pressure (in-H20) .....-11.8
Filter number(s) 5300002
Stack inside dia. (in) 53
Pitot tube coeff. 84
Total H20 collected (ml) 100.7
Percent O2 by volume (dry) ...14.95

Leakage (cu-ft) 0
Meter calibration factor 1.005
Data interval (min) 10
Nozzle dia. 193
Meter box number FB3
Number of traverse points 18
Percent CO2 by volume (dry) ..3.25
Percent CO by volume (dry) ...0

Sample time (min)	Gas meter reading (cu. ft.)	Velocity head (in. H20)	Orifice drop-act. (in. H20)	Stack temp. (deg. F)	Dry gas meter temp (deg. F) inlet	outlet
0.0	952.034					
10.0	956.300	0.450	0.64	92	94	92
20.0	960.650	0.450	0.64	98	96	92
30.0	964.930	0.430	0.61	99	101	94
40.0	969.290	0.450	0.65	93	106	96
50.0	973.720	0.450	0.65	96	108	98
60.0	978.170	0.430	0.62	97	110	98
70.0	983.080	0.600	0.87	97	110	100
80.0	988.200	0.600	0.87	97	112	100
90.0	993.330	0.600	0.87	95	112	102
100.0	998.460	0.600	0.88	93	113	102
110.0	1003.620	0.600	0.87	94	114	102
120.0	1008.580	0.550	0.80	97	114	104
130.0	1013.710	0.600	0.88	93	114	104
140.0	1018.840	0.600	0.88	91	114	104
150.0	1024.090	0.600	0.88	89	114	104
160.0	1029.160	0.600	0.88	90	115	105
170.0	1034.280	0.600	0.88	91	116	105
180.0	1038.690	0.400	0.59	93	116	105
180.0	86.656	0.531	0.78	94	110	100

Ok D/A 7/12/85

P E I ASSOCIATES, INC.
E M I S S I O N T E S T R E P O R T

T E S T R E S U L T S

PLANT: DETROIT WSD
TEST: PCDD-3 / #13 OUTLET

TEST DATE: 6/26/85
TEST TIME: 831-1131

TT	Net time of test (min)	180.0
NP	Net sampling points	18
Y	Meter calibration factor	1.005
DN	Sampling nozzle dia (in)	0.193
CP	Pitot tube coefficient	0.840
PM	Average orifice pressure drop (in-H2O)	0.78
VM	Volume of dry gas sampled at meter conditions (cu-ft)	86.656
TM	Average gas meter temperature (deg F)	105.2
VMSTD	Volume of dry gas sampled at standard conditions (scf)	80.701
VLC	Total H2O collected in impingers and silica gel (ml)	100.7
VWC	Volume of water vapor at standard conditions (scf)	4.740
BWO	Percent moisture by volume (saturation check made)	5.55
FMD	Mole fraction of dry gas	0.94
PCO2	Percent CO2 by volume (dry)	3.250
PO2	Percent O2 by volume (dry)	14.950
PCO	Percent CO by volume (dry)	0.800
PN2	Percent N2 by volume (dry)	81.000
MD	Molecular weight - dry stack gas	29.12

TEST RESULTS

MWS	.....	Molecular weight - stack gas	28.50
PB	.....	Barometric pressure (in-HG)	29.62
PSI	.....	Static pressure of stack gas (in-H2O)	-11.800
PS	.....	Stack pressure - absolute (in-HG)	28.75
TS	.....	Average stack temperature (deg F)	94
VH	.....	Average square root of velocity head (in-H2O)	0.729
VS	.....	Average stack gas velocity (fps)	43.0
AS	.....	Stack area (sq in)	2,206
QS	.....	Actual stack flow rate (acfm)	39,552
QSSTD	.....	Stack flow rate - dry (scfm)	34,205
ISO	.....	Percent isokinetic	98.9

APPENDIX B

FIELD DATA SHEETS

FIELD AUDIT REPORT: DRY GAS METER BY CRITICAL ORIFICE

DATE: 6-17-85 CLIENT: USEPA-EMB

BAROMETRIC PRESSURE (P_{bar}): 29.84 in.Hg METER BOX NO. FB-10

ORIFICE NO. 8 PRETEST Y: .963 ΔH@ 1.81 in.H_2O

ORIFICE K FACTOR: 4.725×10^{-4} AUDITOR: M Throod

Orifice manometer reading ΔH, in.H_2O	Dry gas meter reading V_f/V_i, ft³	Temperatures: Ambient T_{af}/T_{ai}, °F	Ambient Average T_a, °F	Dry gas meter Inlet T_{if}/T_{ii}, °F	Dry gas meter Outlet T_{of}/T_{oi}, °F	Dry gas meter Average T_m, °F	Duration of run Ø, min.
1.8	474.00	85	85	86	82	85	12.3002/60
	484.00	85		88	84		

Dry gas meter V_m, ft³	$V_{m_{std}}$, ft³	$V_{m_{act}}$, ft³	Audit, Y	Y deviation, %	Audit ΔH@, in.H_2O	ΔH@ Deviation, in.H_2O
10.0	9.691	9.176	.9467	-1.72	1.21	.11

$$V_{m_{std}} = \frac{17.647(V_m)(P_{bar} + \Delta H/13.6)}{(T_m + 460)} = \frac{17.647(10)(29.93)}{545} = 9.691 \text{ ft}^3$$

$$V_{m_{act}} = \frac{1203(\text{Ø})(K)(P_{bar})}{(T_a + 460)^{1/2}} = \frac{1203(12.63)(K)(29.93)}{545^{1/2}} = 9.176 \text{ ft}^3$$

$$\text{Audit Y} = \frac{V_{m_{act}}}{V_{m_{std}}} = .9467 \qquad \text{Y deviation} = \frac{\text{Audit Y} - \text{Pre-test Y}}{\text{Audit Y}} \times 100 = -1.72$$

$$\text{Audit } \Delta H@ = (0.0317)(\Delta H)(P_{bar})(T_m + 460)\left[\frac{12.63\ \text{Ø}}{Y\,(V_m)(P_{bar} + \Delta H/13.6)}\right]^2 = 1.21 \text{ in.}H_2O$$

$$\left[\frac{12.63}{(10)(29.93)}\right]$$

Audit Y must be in the range, pre-test Y ±0.05 Y.
Audit ΔH@ must be in the range pre-test ΔH@ ±0.15 inches H_2O.

FIELD AUDIT REPORT: DRY GAS METER
BY CRITICAL ORIFICE

DATE: 6/17/85 CLIENT: USEPA Detroit Cr Study

BAROMETRIC PRESSURE (P_{bar}): 29.84 in.Hg METER BOX NO. FB-11

ORIFICE NO. 7 PRETEST Y: 1.052 ΔH@ 1.14 in.H_2O

ORIFICE K FACTOR: 4.964×10^{-4} AUDITOR: DMcNagl

Orifice manometer reading ΔH, in.H_2O	Dry gas meter reading V_i/V_f, ft^3	Temperatures: Ambient T_{ai}/T_{af}, °F	Ambient Average T_a, °F	Dry gas meter Inlet T_{ii}/T_{if}, °F	Dry gas meter Outlet T_{oi}/T_{of}, °F	Dry gas meter Average T_m, °F	Duration of run Ø, min.
1.25	45.000	86	86.5	94	83	89.25	24:02.03
	63.000	87		96	84		

Dry gas meter V_m, ft^3	$V_{m_{std}}$, ft^3	$V_{m_{act}}$, ft^3	Audit, Y	Y deviation, %	Audit ΔH@, in.H_2O	ΔH@ Deviation, in.H_2O
18.000	17.287	18.295	1.058	0.57	1.15	0.01

$$V_{m_{std}} = \frac{17.647(V_m)(P_{bar} + \Delta H/13.6)}{(T_m + 460)} = 17.287\ ft^3$$

$$V_{m_{act}} = \frac{1203(\ \emptyset\ )(\ K\ )(P_{bar})}{(T_a + 460)^{1/2}} = 18.294\ ft^3$$

$$\text{Audit Y} = \frac{V_{m_{act}}}{V_{m_{std}}} = \qquad \text{Y deviation} = \frac{\text{Audit Y - Pre-test Y}}{\text{Audit Y}} \times 100 =$$

$$\text{Audit } \Delta H@ = (0.0317)(\Delta H)(P_{bar})(T_m + 460)\left[\frac{\emptyset}{Y\,(V_m)(P_{bar} + \Delta H/13.6)}\right]^2 = \qquad \text{in.}H_2O$$

Audit Y must be in the range, pre-test Y ±0.05 Y.
Audit ΔH@ must be in the range pre-test ΔH@ ±0.15 inches H_2O.

FIELD AUDIT REPORT: DRY GAS METER BY CRITICAL ORIFICE

DATE: 6/17/85 CLIENT: USEPA DETROIT Cr Study

BAROMETRIC PRESSURE (P_{bar}): 29.84 in.Hg METER BOX NO. FB-3

ORIFICE NO. 8 PRETEST Y: 1.005 ΔH@ 1.90 in.H_2O

ORIFICE K FACTOR: 4.725×10^{-4} AUDITOR: D McNeil

Orifice manometer reading ΔH, in.H_2O	Dry gas meter reading V_i/V_f, ft³	Temperatures: Ambient T_{ai}/T_{af}, °F	Ambient Average T_a, °F	Dry gas meter Inlet T_{ii}/T_{if}, °F	Dry gas meter Outlet T_{oi}/T_{of}, °F	Dry gas meter Average T_m, °F	Duration of run Ø min.
1.85	418.000	86	87	94	84	87.95	28:59.86
	440.000	88		94	87		

Dry gas meter V_m, ft³	$V_{m_{std}}$, ft³	$V_{m_{act}}$, ft³	Audit, Y	Y deviation, %	Audit ΔH@, in.H_2O	ΔH@ Deviation, in.H_2O
22.000	21.239	21.030	0.990	1.52	1.89	.01

$$V_{m_{std}} = \frac{17.647(V_m)(P_{bar} + \Delta H/13.6)}{(T_m + 460)} = \quad ft^3$$

$$V_{m_{act}} = \frac{1203(\ \emptyset\ )(\ K\ )(P_{bar})}{(T_a + 460)^{1/2}} = \quad ft^3$$

$$\text{Audit Y} = \frac{V_{m_{act}}}{V_{m_{std}}} = \qquad \text{Y deviation} = \frac{\text{Audit Y} - \text{Pre-test Y}}{\text{Audit Y}} \times 100 =$$

$$\text{Audit } \Delta H@ = (0.0317)(\Delta H)(P_{bar})(T_m + 460)\left[\frac{\emptyset}{Y\,(V_m)(P_{bar} + \Delta H/13.6)}\right]^2 = \quad \text{in.}H_2O$$

Audit Y must be in the range, pre-test Y ±0.05 Y.
Audit ΔH@ must be in the range pre-test ΔH@ ±0.15 inches H_2O.

FIELD AUDIT REPORT: DRY GAS METER BY CRITICAL ORIFICE

DATE: 6-17-85 CLIENT: USEPA-EMB

BAROMETRIC PRESSURE (P_{bar}): 29.84 in.Hg METER BOX NO. FB-4

ORIFICE NO. #12 PRETEST Y: 1.033 ΔH@ 1.23 in.H_2O

ORIFICE K FACTOR: 24.795x10-4 AUDITOR: G Thress

Orifice manometer reading ΔH, in.H_2C	Dry gas meter reading V_i/V_f, ft³	Temperatures: Ambient T_{ai}/T_{af}, °F	Ambient Average T_a, °F	Dry gas meter Inlet T_{ii}/T_{if}, °F	Dry gas meter Outlet T_{oi}/T_{of}, °F	Dry gas meter Average T_m, °F	Duration of run Ø min.
1.15	211.000	85	85	90	80	86	13 2950/60
	221.200	85		92	82		

Dry gas meter V_m, ft³	$V_{m_{std}}$, ft³	$V_{m_{act}}$, ft³	Audit, Y	Y deviation, %	Audit ΔH@, in.H_2O	ΔH@ Deviation, in.H_2O
10.1	9.7685	9.946	1.018	-1.45	1.14	.04

$$V_{m_{std}} = \frac{17.647(\overset{10.1}{V_m})(\overset{29.84 + 1.15/13.6}{P_{bar} + \Delta H/13.6})}{(\underset{546}{T_m + 460})} = 9.7685 \text{ ft}^3$$

$$V_{m_{act}} = \frac{1203(\overset{13.49}{\emptyset})(K)(\overset{29.84}{P_{bar}})}{(\underset{23.3452}{T_a + 460})^{1/2}} = 9.946 \text{ ft}^3$$

$$\text{Audit Y} = \frac{V_{m_{act}}}{V_{m_{std}}} = 1.018 \qquad \text{Y deviation} = \frac{\text{Audit Y} - \text{Pre-test Y}}{\text{Audit Y}} \times 100 =$$

$$\text{Audit } \Delta H@ = (0.0317)(\overset{1.15}{\Delta H})(P_{bar})(\overset{546}{T_m + 460})\left[\frac{\overset{13.49}{\emptyset}}{\underset{307.678}{Y\,(V_m)(P_{bar} + \Delta H/13.6)}}\right]^2 = 1.14 \text{ in.}H_2O$$

Audit Y must be in the range, pre-test Y ±0.05 Y.
Audit ΔH@ must be in the range pre-test ΔH@ ±0.15 inches H_2O.

THERMOCOUPLE DIGITAL INDICATOR
AUDIT DATA SHEET

Date 6-17-95 Indicator No. 126 Operator JN

Test Point No.	Millivolt signal*	Equivalent temperature, °F*	Digital indicator temperature reading, °F	Difference, %
1		100	103	
2		400	397	
3		800	799	
4		1200	1196	

Percent difference must be less than or equal to 0.5%.

Percent difference:

$$\frac{(\text{Equivalent temperature } °R - \text{Digital indicator temperature reading } °R)(100\%)}{(\text{Equivalent temperature } °R)}$$

Where °R = °F + 460°F

* These values are to be obtained from the calibration data sheet for the calibration device.

ON-SITE AUDIT DATA SHEET

Audit Name: Detroit Sewage Incinerator Outlet Date: 6/17/85 Auditor: D McNeil

Equipment	Reference	Reference Value	Value Determined	Deviation	Max. Allowable Deviation
Meter box inlet thermo.	ASTM-3F at ambient temp.	FB-3 85 FB-11 85	84 82	1 3	5°F
Meter box outlet thermo.	ASTM-3F at ambient temp.	FB-3 85 FB-11 85	82 80	3 5	5°F
Impinger thermometer	ASTM-3F at ambient temp.	I-7 85	85	0	2°F
Stack thermometer or Thermocouple	ASTM-3F at ambient temp.	87	87	0	7°F
	ASTM-3F at stack temp.				See table
Orsat analyzer	% O_2 in ambient air	20.8%			0.7%
Trip balance	IOLM std. weight				0.5 grams
Barometer	Corrected* NWS value				0.20 in. Hg

Reference temp. °F	32-140	141-273	274-406	407-540	541-673	674-760
Max. deviation °F	7	9	11	13	15	17

* Correction factor:

NWS value (in. Hg) - [Altitude (ft)/1000(ft/in. Hg)] + 0.74 in. Hg**

** 0.74 in. Hg is the nominal correction factor for the reference barometer against which the field barometer was calibrated.

If it is not feasible to perform the audit on any piece of equipment, record "N/A" in the space provided for the data.

ON-SITE AUDIT DATA SHEET

Audit Name: FB-4 Date: 6-17-85 Auditor: M Ness

Equipment	Reference	Reference Value	Value Determined	Deviation	Max. Allowable Deviation
Meter box inlet thermo.	ASTM-3F at ambient temp.	73	72	1	5°F
Meter box outlet thermo.	ASTM-3F at ambient temp.	73	70	3	5°F
I-1 Impinger thermometer	ASTM-3F at ambient temp.	83	84	1	2°F
Stack thermometer or	ASTM-3F at ambient temp.	83			7°F
#147 Thermocouple	ASTM-3F at stack temp.	83	82	1	See table
Orsat analyzer	% O_2 in ambient air	20.8%			0.7%
Trip balance	IOLM std. weight				0.5 grams
Barometer	Corrected* NWS value				0.20 in. Hg

Reference temp. °F	32-140	141-273	274-406	407-540	541-673	674-760
Max. deviation °F	7	9	11	13	15	17

* Correction factor:

NWS value (in. Hg) - [Altitude (ft)/1000(ft/in. Hg)] + 0.74 in. Hg**

** 0.74 in. Hg is the nominal correction factor for the reference barometer against which the field barometer was calibrated.

If it is not feasible to perform the audit on any piece of equipment, record "N/A" in the space provided for the data.

ON-SITE AUDIT DATA SHEET

Audit Name: FB-10 Date: 6-17-85 Auditor: [signature]

Equipment	Reference	Reference Value	Value Determined	Deviation	Max. Allowable Deviation
Meter box inlet thermo.	ASTM-3F at ambient temp.	73	70	3	5°F
Meter box outlet thermo.	ASTM-3F at ambient temp.	73	72	1	5°F
I-9 Impinger thermometer	ASTM-3F at ambient temp.	83	83	0	2°F
Stack thermometer or Thermocouple	ASTM-3F at ambient temp.				7°F
	ASTM-3F at stack temp.				See table
Orsat analyzer	% O_2 in ambient air	20.8%			0.7%
Trip balance	IOLM std. weight				0.5 grams
Barometer	Corrected* NWS value				0.20 in. Hg

Reference temp. °F	32-140	141-273	274-406	407-540	541-673	674-760
Max. deviation °F	7	9	11	13	15	17

* Correction factor:

NWS value (in. Hg) - [Altitude (ft)/1000(ft/in. Hg)] + 0.74 in. Hg**

** 0.74 in. Hg is the nominal correction factor for the reference barometer against which the field barometer was calibrated.

If it is not feasible to perform the audit on any piece of equipment, record "N/A" in the space provided for the data.

TRAVERSE POINT LOCATION FOR RECTANGULAR DUCTS

Plant Detroit Water & Sewer Dept

Date 6-17-85

Sampling location Inc#13 Inlet

Width _____ in.

Inside of far wall to outside of nipple 140 in.

Nipple length 9 in.

Length 126 in.

Equivalent diameter (2 LW/(L+W)

_____ in.

Nearest upstream disturbance 0 in. _____ dd

Nearest downstream disturbance 0 in. ___ dd

Calculated by _____

SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NO. FOR EACH PORT	FRACTION OF LENGTH	LENGTH (in.)	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1/8 in.)	NIPPLE LENGTH (in.)	TRAVERSE POINT LOCATION SUM OF COLUMNS 4 AND 5
1	25.2"				21.6
2					46.8
3					72
4					97.2
5					122.4

IF NO PORTS, CALCULATE CENTROID OF AREAS FOR WIDTH TO DETERMINE PORT LOCATION

NO. OF CENTROIDS (PORTS)	FRACTION OF WIDTH	WIDTH (in.)	CENTROID LOCATION = PRODUCTS OF COLUMNS 2 AND 3 (TO NEAREST 1/8 in.)

GAS VELOCITY AND VOLUMETRIC FLOW RATE

Plant and City Detroit Water & Sewer Dept Date 6/18/85

Sampling Location Incin. #13 Inlet Clock Time 930

Run No. 1-2 Operator [illegible]

Barometric Pressure, in.Hg 29.10 Static Pressure, in.H_2O -1.1

Moisture, % _____ Molecular wt., Dry _____ Pitot Tube, Cp .84

Stack Dimension, in. Diameter or Side 1 _____ Side 2 _____

wall @ 5"

FIELD DATA

TRAVERSE POINT NUMBER		VELOCITY HEAD (ΔP_s), in.H_2O	STACK TEMP., °F
A	1	.11	732
	2	.18	900
	3	.28	904
	4	.61	894
	5	.57	925
B	6	.35	850
	7	.42	900
	8	.42	900
	9	.46	895
	10	.58	895
C	11	.30	890
	12	.34	890
	13	.41	910
	14	.41	925
	15	.43	944
D	16	.28	942
	17	.30	970
	18	.30	991
	19	.31	990
	20	.31	955
E	21	.31	930
	22	.32	960
	23	.32	990
	24	.33	985
	25	.31	951
F	26	.11	930
	27	.07	971
	28	.09	985
	29	.10	998
	30	.53	994

Avg .31 Avg 930.5

CALCULATIONS

$M_s = Md \times (1 - \frac{H_2O}{100}) + 18 (\frac{H_2O\ s}{100})$

$M_s = (\quad) \times (1 - \frac{\quad}{100}) + 18 (\frac{\quad}{100})$

$M_s =$

$T_s =$ °F = °R = (°F + 460)

$P_s = P_b + \frac{s.p.}{13.6} = (\quad) + \frac{\quad}{13.6}$

$P_s =$ in.Hg

$\sqrt{\Delta P} =$

$V_s = 85.49 \times Cp \times \sqrt{\Delta P} \times \sqrt{\frac{T_s, °R}{P_s \times M_s}}$

$V_s = 85.49 \times (\quad) \times (\quad) \times \sqrt{\frac{\quad}{x}}$

$V_s =$ ft/s

$A_s =$ ft²

$Q_s = V_s \times A_s \times \frac{60\ s}{m}$

$Q_s =$ x x 60

$Q_s =$ acfm

$Q_{s_{std}} = C_s \times 17.647 \times \frac{P_s}{T_s} \times (1 - \frac{H_2O\ s}{100})$

$Q_{s_{std}} =$ x 17.647 x $\frac{\quad}{\quad}$ x $(1 - \frac{\quad}{100})$

$Q_{s_{std}} =$ dscfm

GAS VELOCITY AND VOLUMETRIC FLOW RATE

Plant and City Detroit water & Sewer Dpt. Date 6-17-85

Sampling Location #13 Inlet Clock Time 1430

Run No. U-1 Operator [illegible]

Barometric Pressure, in.Hg 29.84 Static Pressure, in.H_2O _____

Moisture, % _____ Molecular wt., Dry _____ Pitot Tube, Cp .84

Stack Dimension, in. Diameter or Side 1 _____ Side 2 _____

FIELD DATA

TRAVERSE POINT NUMBER		VELOCITY HEAD (ΔP_s), in.H_2O	STACK TEMP., °F
1	1	.06	905
	2	.02	900
	3	.01	895
	4	.03	893
	5	.06	888
2	1		
	2		
	3		
	4		
	5		
3	1		
	2		
	3		
	4		
	5		

CALCULATIONS

$M_s = Md \times (1 - \frac{\%H_2O}{100}) + 18 (\frac{\%H_2O}{100})$

$M_s = (\quad) \times (1 - \frac{\quad}{100}) + 18 (\frac{\quad}{100})$

$M_s =$

$T_s =$ °F = °R = (°F + 460)

$P_s = P_b + \frac{S.P.}{13.6} = (\quad) + \frac{\quad}{13.6}$

$P_s =$ in.Hg

$\sqrt{\Delta P} =$

$V_s = 85.49 \times Cp \times \sqrt{\Delta P} \times \sqrt{\frac{T_s, °R}{P_s \times M_s}}$

$V_s = 85.49 \times (\quad) \times (\quad) \times \sqrt{\frac{\quad}{\quad}}$

$V_s =$ ft/s

$A_s =$ ft²

$Q_s = V_s \times A_s \times \frac{60\ s}{m}$

$Q_s = \quad \times \quad \times 60$

$Q_s =$ acfm

$Q_{s_{std}} = Q_s \times 17.647 \times \frac{P_s}{T_s} \times (1 - \frac{\%H_2O}{100})$

$Q_{s_{std}} = \quad \times 17.647 \times \frac{\quad}{\quad} \times (1 - \frac{\quad}{100})$

$Q_{s_{std}} =$ dscfm

TRAVERSE POINT LOCATION FOR CIRCULAR DUCTS

Plant Detroit Water & Sewer Dept

Date 6/17/85

Sampling location outlet #13

Inside of far wall to outside of nipple ~~62"~~ 55"

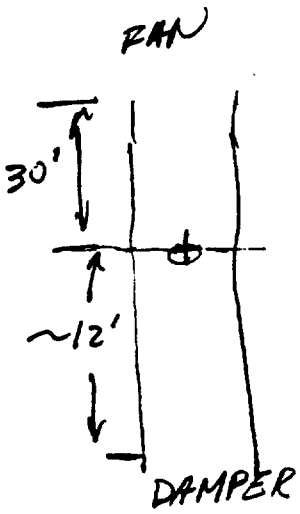
Inside of near wall to outside of nipple (nipple length) ~~55"~~ 2"

Stack I.D. ~~53"~~

Nearest upstream disturbance _____ dd

Nearest downstream disturbance _____ dd

Calculated by K. Batt



SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NUMBER	FRACTION OF STACK I.D.	STACK I.D.	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1/8 INCH)	NIPPLE LENGTH	TRAVERSE POINT LOCATION FROM OUTSIDE OF NIPPLE (SUM OF COLUMNS 4 & 5)
1	0.021	53"	1 1/8"	2"	3 1/8"
2	0.067	53"	3 1/2"	2"	5 1/2"
3	0.118	53"	6 1/4"	2"	8 1/4"
4	0.177	53"	9 3/8"	2"	11 3/8"
5	0.250	53"	13 1/4"	2"	15 1/4"
6	0.356	53"	18 7/8"	2"	20 7/8"
7	0.644	53"	34 1/8	2"	36 1/8"
8	0.750	53"	39 3/4"	2"	41 3/4"
9	0.823	53"	43 5/8"	2"	45 5/8"
10	0.882	53"	46 3/4"	2"	48 3/4"
11	0.933	53"	49 1/2"	2"	51 49 1/2"
12	0.979	53"	51 7/8"	2"	53 7/8"

GAS VELOCITY AND VOLUME DATA

	PLANT AND CITY	RUN DATE
1.	DETROIT SLUDGE INCINERATOR	6/17/85

SAMPLING LOCATION	CLOCK TIME
OUTLET - INCINERATOR # 13	1240

	RUN NUMBER	OPERATOR	AMB. TEMP. (°F)	BAR. PRESS (in. Hg)	STATIC PRESS (in. H_2O)
2.	PRE-TEST	DM KB	87	29.84	-11.8

MOLECULAR WT.	STACK INSIDE DIMENSION (in.) DIAM OR SIDE 1	STACK INSIDE DIMENSION (in.) SIDE 2	PITOT TUBE Cp	MOISTURE %
	53.0	53.0	.84	

FIELD DATA

TRAVERSE POINT NUMBER	POSITION (in.)	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMP, °F
1		0.35	84
2		0.30	83
3		0.10	84
4		0.12	83
5		0.13	82
6		0.36	82
7		0.90	82
8		1.15	81
9		1.20	83
10		.10	82
11		.05	82
12		.05 0.88	82
1		0.40	84
2		0.40	84
3		0.50	83
4		0.50	82
5		0.55	82
6		0.50	82
7		.10	82
8		.60	81
9		.80	81
10		.85	81
11		.50	81
12		.05	82

THERMOCOUPLE # 9

PITOT 103

$\sqrt{\Delta P}_{avg} = \frac{0.632 + 0.971}{2} = .802$

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE
DETROIT SEWAGE PLANT	6/17/85	SEWAGE INCINERATOR OUTLET	MOISTURE

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (in. Hg)	STATIC PRESS. (in. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)	PITOT TUBE Cp	THERM NO.	PAGE
[illegible]	DMCNEAL KBATT		2484	-1.18		51			1 OF 1

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (S)	SAMPLE BOX NO.	METER BOX NO.	METER ΔH@	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA MINS
6 FT GLASS				[illegible]	F11	1.4	1.052					250	NA		

— Prelim. Moisture Run —

Pre Leak Check 0.00 @ 12" Hg
POST LEAK CHECK 0.00 @ 9" Hg

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_o), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	1450	67.528									
	5	1504				1.15		90	86	8.0		63
	10	1509	74.940			1.15		96	86	8.0		67
	15	1514				1.15		106	89	9.0		91
	20	1519	81.930			1.15		106	89	9.0		91
	25	1524				1.15		108	90	9.0		90
	30	1529	89.040			1.15		110	90	9.0		90

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant Detroit Water & Sewer Sample date 6/17/85

Sample location Outlet Recovery date

Run number Moisture Recovered by RB

Filter number(s)

Method 4 MOISTURE

Impingers				Silica gel	
Final volume (wt)	592.7	443.7	ml(g)	Final wt	780.4 g
Initial volume (wt)	587.2	437.9	ml(g)	Initial wt	767 g
Net volume (wt)	5.5	5.8	ml(g)	Net wt	13.4 g

Description of impinger water clear % spent

Total moisture 24.7 g

~~RECOVERED SAMPLE~~

Filter container number(s) Sealed

Description of particulate on filter

Probe rinse container no. Liquid level marked

____ blank container no. Liquid level marked

Impinger contents container no. Liquid level marked

____ blank container no. Liquid level marked

Samples stored and locked

Remarks Prelim. Outlet moisture run

LABORATORY CUSTODY

Received by Date

Remarks

Particulate

Semivolatile Organic

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT MMTR	6/25/85	NCV3 INLET	PM/HCl/ORGANICS

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)	PITOT TUBE Cp	THERM NO.	PAGE
SECTION I	PK/GT	85	29.20	-1.41	1532-1923	NA / 144	0.84		10 OF 10

PROBE LENGTH AND TYPE	HEATER SETTING T.S.	HEATER SETTING NO.	H₂O (%)	SAMPLE BOX NO.	METER BOX NO.	METER ΔH@	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA INSIDE
NUTECH	6373		25		FBH	1.23	1.0513	1.00	0.015	~~.956~~ .959		NA	250		1517

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_s), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	~~0910~~ 0935	779.043									
C-3	15.	~~925~~ 950	784.270	0.08	0.29	0.29	895	94	94	4.1	249	68
	30.	940	789.400	0.08	0.28	0.28	955	96	94	6.5	245	68
	45.	955	794.680	0.08	0.30	0.30	994	100	96	7.1	250	70
	60.	1010	799.780	0.08	0.29	0.29	923	104	98	9.5	250	70
	75.	1025	805.300	0.08	0.29	0.29	945	106	100	9.0	250	70
	90.	1040	810.640	0.08	0.29	0.29	958	107	101	9.5	250	73
	105.	1055	816.300	0.09	0.30	0.30	882	107	101	8.5	245	75
	120.	1110	821.420	0.09	0.29	0.29	903	108	102	8.5	249	70
	135.	1125	826.730	0.08	0.29	0.29	914	108	103	9.0	250	70
	150.	1140	831.940	0.08	0.29	0.29	921	108	103	9.5	250	71
	165.	1155	837.190	0.08	0.29	0.29	960	108	104	10.0	245	72
	180.	1210	842.527	0.08	0.29	0.29	962	109	104	10.0	250	72
	195.											
	210.											
	225.											
	240.											
	255.											
	270.											
	285.											
	300.											

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant DETROIT Sample date 6/25/85

Sample location INLET Recovery date 6/25/85

Run No. PCIO-1 Recovered by DS/CB

Filter No(s). 53000~~1~~21

XAD-2 sorbent trap No. IO-1 Cont # 3028B

Thimble # 11 Cont # 3025 B

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	976.2 g	648.3 g	488.7 g	504.3 g	873.4 g
Initial volume wt.	594.6 g	554.5 g	487.4 g	504.1 g	855.6 g
Net volume wt.	381.6 g	93.8 g	1.3 g	.2 g	17.8 g
Description of impinger contents	Clear				40 % spent

Total moisture 494.7 g

RECOVERED SAMPLE

Filter container number(s) 3029 B Sealed ✓

Description of particulate on filter Filter light TAN / Thimble - Red

Probe rinse container no.	3025 A	Liquid level marked	✓	Container sealed	✓
Acc. blank container no.	3529 A	Liquid level marked	✓	Container sealed	✓
Impinger contents container no.	3026 A	Liquid level marked	✓	Container sealed	✓
ipc1 H_2O blank container no.	3023 A	Liquid level marked	✓	Container sealed	✓

Samples stored and locked: Cooler No. _____ Ice supply _____

Remarks _____

LABORATORY CUSTODY

Received by L. Rotella Date 6/28/85

Remarks Blank Filter Cont # 3610 B / Filter No. 53000 20

Container sealed? _____ On Ice? _____

Note any signs of sample leakage or spillage: _____

TRIP BLANK CONT # 3029 B

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - Detroit
DATE 6/25/85 TEST NO PCIO-1
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION No. 13 Scrubber Inlet
SAMPLE TYPE (BAG, INTEGRATED, CONTINUOUS)
ANALYTICAL METHOD ORSAT
AMBIENT TEMPERATURE 70°F
OPERATOR ajb
.ORSAT LEAK CHECKED

COMMENTS:

GAS \ RUN	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	6.0	6.0	5.8	5.8			5.9	44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	17.6	11.6	17.8	12.0			11.8	32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)								28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT MI MOTOR	6/25/85	MOTOR EXHAUST	PART. EMISSIONS

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)	PITOT TUBE C_p	THERM NO.	PAGE
PC210-2	MR	85	29.72	-1.61	[illegible]	8.4	0.84		1 OF 1

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (%)	SAMPLE BOX NO.	METER BOX NO.	METER $\Delta H@$	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA CODE
10 IGT 60	.3373		20		1.23	[illegible]	.9959	10	.0035	10.19		N/A	250		15

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_s), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	1350	843.046									
1-3	15.	1405	849.091	0.08	0.35	0.35	860	101	100	2.0	250	70
	30.	1420	855.030	0.08	0.35	0.35	823	101	100	2.0	250	70
	45.	1435	861.000	0.08	0.33	0.33	918	107	102	4.0	245	70
	60.	1450	866.930	0.08	0.36	0.36	815	110	104	5.0	250	71
	75.	1505	872.980	0.08	0.36	0.36	841	112	106	5.0	240	73
	90.	1520	879.100	0.08	0.34	0.34	892	113	107	5.0	245	73
	105.	1535	885.140	0.08	0.36	0.36	819	114	108	5.5	250	73
	120.	1550	891.120	0.08	0.35	0.35	885	114	108	5.5	250	70
	135.	1605	896.970	0.08	0.33	0.33	934	115	109	5.5	250	70
	150.	1620	903.020	0.08	.34	.34	893	117	109	5.5	245	71
	165.	1635	908.930	0.08	.34	.34	886	116	110	5.5	250	71
	180.	1650	914.968	0.08	.34	.34	879	115	110	5.5	255	71

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant DETROIT Sample date 6/25/85
Sample location INLET Recovery date 6/26/85
Run No. PCIO-2 Recovered by [illegible]
Filter No(s). 5300004 Thimble # 40
XAD-2 sorbent trap No. IU-2
TRAP Cont. # 3616 B

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	981.1 g	701.5 g	506.7 g	504.2 g	843.9 g
Initial volume wt.	609.1 g	591.5 g	504.9 g	504 g	824.5 g
Net volume wt.	372 g	105 g	1.8 g	0.2 g	19.4 g
Description of impinger contents	clear				70 % spent

Total moisture 498.4 g

RECOVERED SAMPLE

Thimble cont. # 3615 B
Filter container number(s) 3614 B Sealed
Description of particulate on filter Backup - TAN / Thimble - Red

Probe rinse container no.	3614 A	Liquid level marked	✓	Container sealed	✓
Ace blank container no.	3529 A	Liquid level marked	✓	Container sealed	✓
Impinger contents container no.	3615 A	Liquid level marked	✓	Container sealed	✓
H_2O blank container no.	3023 A	Liquid level marked	✓	Container sealed	✓

Samples stored and locked: Cooler No. Ice supply
Remarks

LABORATORY CUSTODY

Received by [illegible] Date 6/28/85
Remarks Type 1 H_2O BLANK Cont. # 3023 A / BLANK FILTER Cont. # 3610
Container sealed? On Ice?
Note any signs of sample leakage or spillage:

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - Detroit
DATE 6/25/85 TEST NO PCIO-2
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION No. 13 Scrubber Inlet
SAMPLE TYPE (BAG, INTEGRATED, CONTINUOUS)
ANALYTICAL METHOD Orsat
AMBIENT TEMPERATURE 70°F
OPERATOR CB
ORSAT LEAK CHECKED ✓

COMMENTS:

GAS \ RUN	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	5.8	5.8	5.7	5.7			5.75	44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	18.0	12.2	18.0	12.3			12.25	32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)							0	28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT, MICHIGAN	6/24/85	MC 1/31 DALEITH	EMISSIONS

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)	PITOT TUBE Cp	THERM NO.	PAGE
PICTOR-3	PAT KATI	96	29.66	-1.61	539993	84 / 120	.984	120	1 OF 1

377 Alpha

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (%)	SAMPLE BOX NO.	METER BOX NO.	METER Δ H @	METER CAL. FACTOR Y	LEAK CHECK Bar. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA RANGE
6 FT GLASS LINER	.337		20		FGA	1.33	1.433	15	.001	VER		MAN	250		1.50

Post-Test C.C. from nozzle (1" Hg ⇒ 0.005 cfm)
" " " " filter (21" Hg ⇒ 0.021 cfm

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_s), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	834	915.550									
C-1	15.		921.290	.08	.33	.33	915	96	96	9.0	245	68
	30.		928.950	.08	.32	.32	955	100	96	15.0	255	67
	45.		932.740	.08	.33	.33	924	102	98	15.0	250	67
	60.		938.550	.08	.33	.33	924	104	100	16.0	245	68
	75.		944.370	.08	.33	.33	943	108	100	17.0	255	68
	90.		950.300	.08	.34	.34	894	108	102	18.0	260	67
	105.		956.130	.08	.34	.34	894	108	102	20.0	260	67
	*120.	1034	962.969	.08	.33	.33	943	110	104	22.0	257	67
	135.		"	"	"	"	"			"		
	150.		"	"	"	"	"			"		
	165.		"	"	"	"	"			"		
	180.		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		
	"		"	"	"	"	"			"		

* Test stopped @ 120 minute - High vacuum

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant Detroit Sample date 6/26/85
Sample location Inlet Recovery date 6/26/85
Run No. PCIO-3 Recovered by AR/CB
Filter No(s). 5300003
XAD-2 sorbent trap No. I03 Cont # 3619 B

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	824.2 g	680.8 g	582.9 g	496 g	874.7 g
Initial volume wt.	598.7 g	609.1 g	581.2 g	495.7 g	851.7 g
Net volume wt.	227.5 g	73.7 g	1.7 g	0.3 g	23 g
Description of impinger contents	Light Yellow				90 % spent

Total moisture 326.2 g

RECOVERED SAMPLE

Filter container number(s) 3617 A (In with Methylene Chloride Rinse) Sealed ____
Description of particulate on filter Red

Probe rinse container no. Methanol 3618 A (Methylene Chloride 3617 A)	Liquid level marked ____	Container sealed ____
Methanol blank container no. 3610 A	Liquid level marked ____	Container sealed ____
Impinger contents container no. 3619 A	Liquid level marked ____	Container sealed ____
Methylene Chloride blank container no. 3609 A	Liquid level marked ____	Container sealed ____

Samples stored and locked: Cooler No. ____ Ice supply ____
Remarks Type I H_2O BLANK Cont. No. 3023 A

LABORATORY CUSTODY

Received by L. Retallick Date 6/28/85
Remarks ORGANIC FILTER BLANK Cont. #3033B / Filter No. 5300028
Container sealed? ____ On Ice? ____
Note any signs of sample leakage or spillage: ____

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - Detroit
DATE 6/26/85 TEST NO. PCOI-3
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION No. 13 Scrubber Inlet
SAMPLE TYPE (BAG, INTEGRATED, CONTINUOUS)
ANALYTICAL METHOD ORSAT
AMBIENT TEMPERATURE 78°F
OPERATOR CB
.ORSAT LEAK CHECKED ✓

COMMENTS: ORSAT #141

RUN / GAS	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	4.9	4.9	4.9	4.9			4.9	44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	18.0	13.1	18.1	13.2			13.15	32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)								28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT WATER AND SEWAGE	6/25/85	UNIT 13 OUTLET	PART/ORGANIC

PITOT #103

THERMOCOUPLE #178

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)	PITOT TUBE Cp	THERM NO.	PAGE
PC00-1	D MCNEAL K BATT	90	1910	-118	5300018	53	84		1 OF 1

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (%)	SAMPLE BOX NO.	METER BOX NO.	METER ΔH@	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA MINS
6 FT GLASS	193	3-103			FB3	190	1005	10	0008	1.422		250	250		10

POST TEST @ 9" Hg 0.01 cfm

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_s), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	0911	769.280									
PT #6	10	0921	773.870	0.65	0.93	0.93	90	92	90	6.0	232	68
	20	0931	779.087	0.65	0.91	0.91	99	96	90	7.5	230	68
	30	0941	784.313	0.65	0.93	0.93	95	100	92	8.0	250	64
	40	0951	788.586	0.39	0.56	0.56	93	103	93	6.0	250	64
	50	1001	792.698	0.39	0.56	0.56	94	104	95	6.0	250	68
	60	1011	796.685	0.36	0.51	0.51	98	105	96	6.0	250	70
	70	1021	801.683	0.65	0.93	0.93	99	106	97	9.0	250	68
	80	1031	806.983	0.65	0.93	0.93	99	108	98	9.0	250	64
	90	1041	812.248	0.65	0.93	0.93	97	109	99	9.0	250	62
	100	1051	817.698	0.68	0.99	0.99	93	109	100	9.0	250	62
	110	1101	823.282	0.70	1.01	1.01	95	110	100	9.0	250	62
	120	1111	828.680	0.68	0.99	0.99	93	110	100	9.0	250	60
	130	1121	834.161	0.68	0.99	0.99	95	110	102	9.0	250	60
	140	1131	839.587	0.67	0.97	0.97	97	110	102	9.0	250	60
	150	1141	844.916	0.65	0.94	0.94	99	111	102	9.0	250	60
	160	1151	850.401	0.70	1.01	1.01	101	112	102	9.0	250	60
	170	1201	855.604	0.69	0.84	0.84	95	112	102	8.5	250	60
	180	1211	860.914	0.65	0.94	0.94	97	112	102	9.0	250	60

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant DETROIT — Sample date 6/25/85
Sample location OUTLET — Recovery date 6/25/85
Run No. PCDD-1 — Recovered by DA
Filter No(s). 53000 B (Cont. #3026 B)
XAD-2 sorbent trap No. 00-1

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	658 g	599.8 g	505.7 g	____ g	910.5 g
Initial volume wt.	567.5 g	602.5 g	504.3 g	— g	891.7 g
Net volume wt.	90.5 g	-2.7 g	1.4 g	____ g	18.8 g
Description of impinger contents	____	____	____	____	30 % spent

Total moisture 109 g

RECOVERED SAMPLE

Filter container number(s) 3027 B — Sealed ✓
Description of particulate on filter BLACK

Probe rinse container no.	3027 A	Liquid level marked	✓	Container sealed	✓
Acetone blank container no.	3529 A	Liquid level marked	✓	Container sealed	✓
Impinger contents container no.	3028 A	Liquid level marked	✓	Container sealed	✓
Type I H_2O blank container no.	3023 A	Liquid level marked	✓	Container sealed	✓

Samples stored and locked: Cooler No. ____ Ice supply ____
Remarks ____

LABORATORY CUSTODY

Received by L. Rotell — Date 6/28/85
Remarks ____
Container sealed? ____ On Ice? ____
Note any signs of sample leakage or spillage: ____

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - Detroit
DATE 6/25/85 TEST NO PCCO-1
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION No. 13 Scrubber Outlet
SAMPLE TYPE (~~BAG~~, INTEGRATED, CONTINUOUS)
ANALYTICAL METHOD Orsat
AMBIENT TEMPERATURE 70°F
OPERATOR CB
ORSAT LEAK CHECKED ✓

COMMENTS:
Leak in sample system is evident - newly. Ambient

RUN / GAS	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	0.2	0.2	0.2	0.2	4.9	4.9		44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	19.5	19.3			20.0	15.1		32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)								28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

20.

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT WATER AND SEWAGE	6/25/85	OUTLET INCINERATOR NO. 13	PART I SEMI ORGANIC

PITOT #103
THERMO #178

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK INSIDE DIMEN. (INCHES)		PITOT TUBE Cp	THERM NO.	PAGE
PC00-3	MCNEAL K BATT	80	29.75	1.18	5300024	53	53	84		1 OF 1

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (%)	SAMPLE BOX NO.	METER BOX NO.	METER ΔH@	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA MINS
6 FT GLASS	0.143	3-109			FB3	1.90	1.005	10	0.017	1.422		250	250		10

POST LEAK CHECK @ 8" Hg 0.01 cfm

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_o), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	1350	861.215									
PT #6	10	1400	866.290	0.65	0.92	0.92	100	100	96	4.5	280	68
	20	1410	871.430	0.60	0.87	0.87	90	102	98	6.2	230	60
	30	1420	875.940	0.45	0.66	0.66	87	106	98	5.5	230	60
	40	1430	880.880	0.55	0.78	0.78	105	108	100	6.2	250	62
	50	1440	886.190	0.70	1.00	1.00	101	112	100	7.0	240	62
	60	1450	890.720	0.43	0.63	0.63	93	112	100	6.0	235	62
	70	1500	895.230	0.45	0.66	0.66	91	114	102	6.0	250	62
	80	1510	899.490	0.40	0.59	0.59	92	115	104	5.5	230	62
	90	1520	903.790	0.40	0.58	0.58	100	116	104	6.0	240	60
	100	1530	909.910	0.85	1.24	1.24	96	116	106	8.0	280	60
	110	1540	915.870	0.77	1.13	1.13	93	118	106	8.0	260	60
	120	1550	920.530	0.45	0.66	0.66	96	118	107	6.0	240	60
	130	1600	925.110	0.45	0.66	0.66	99	118	108	6.0	260	60
	140	1610	930.650	0.70	1.02	1.02	100	118	108	8.0	250	60
	150	1620	936.217	0.70	1.03	1.03	95	120	108	8.0	250	60
	160	1630	941.521	0.61	0.90	0.90	95	120	109	7.5	250	60
	170	1640	946.475	0.53	0.77	0.77	101	120	109	7.0	250	60
	180	1650	951.532	0.56	0.83	0.83	92 *	120	109	7.5	250	60

* USED PUMP (11) WITH METER BOX FB-3

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant DETROIT Sample date 6/25/85

Sample location OUTLET Recovery date 6/26/85

Run No. PC00-2 Recovered by [illegible]

Filter No(s). 5300024

XAD-2 sorbent trap No. 002

TRAP CONT # 3613 B

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	685.6 g	575.8 g	498.3 g	____ g	882.1 g
Initial volume wt.	596.6 g	576.8 g	497.8 g	____ g	864.9 g
Net volume wt.	89 g	-1 g	1 g	____ g	17.2 g
Description of impinger contents	CLEAR				30 % spent

Total moisture 106.2 g

RECOVERED SAMPLE

Filter container number(s) 3612 B Sealed ✓

Description of particulate on filter BLACK

Probe rinse container no.	3612 A	Liquid level marked	✓	Container sealed	✓
ACE. blank container no.	3529 A	Liquid level marked	✓	Container sealed	✓
Impinger contents container no.	3613 A	Liquid level marked	✓	Container sealed	✓
Type 1 H_2O blank container no.	3023 A	Liquid level marked	✓	Container sealed	✓

Samples stored and locked: Cooler No. _____ Ice supply _____

Remarks _____

LABORATORY CUSTODY

Received by [illegible] Date [illegible]

Remarks _____

Container sealed? _____ On Ice? _____

Note any signs of sample leakage or spillage: _____

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - DETROIT
DATE 6/25/85 TEST NO PC 002
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION No. 13 OUTLET
SAMPLE TYPE (BAG, INTEGRATED, CONTINUOUS) BAG
ANALYTICAL METHOD ORSAT
AMBIENT TEMPERATURE 80
OPERATOR DS
.ORSAT LEAK CHECKED ✓

COMMENTS:

RUN / GAS	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	4.9	4.9	4.7	4.7			4.8	44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	20.0	15.1	19.8	15.1			15.1	32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)								28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

EMISSION TESTING FIELD DATA

PLANT & CITY	DATE	SAMPLING LOCATION	SAMPLE TYPE
DETROIT WATER AND SEWAGE	6/26/85	OF RUBBER OUTLET	ORGANIC

RUN NO.	OPERATOR	AMB. TEMP (°F)	BAR. PRESS. (IN. Hg)	STATIC PRESS. (IN. H_2O)	FILTER NUMBER(S)	STACK DIAM. DIMEN. (INCHES)	PITOT TUBE Cp	THERM NO.	PAGE
PCOP-30 MSNRAL K RAT	80	25.62	-1.8	53		53		84	1 OF 1

PROBE LENGTH AND TYPE	NOZZLE I.D.	NOZZLE NO.	H_2O (S)	SAMPLE BOX NO.	METER BOX NO.	METER $\Delta H@$	METER CAL. FACTOR Y	LEAK CHECK IN. Hg	LEAK CHECK CFM	K FACTOR	C FACTOR	PROBE HEAT SET	BOX HEAT SET	REF. ΔP	RECORD DATA EVERY
6 FT GLASS	.193	37 PR			FB3	1.9	1.005	0.001	51	1.4th 22		250	250		10

POST-TEST 9.0 0.01 cfm

TRAVERSE POINT NUMBER	SAMPLING TIME, min	CLOCK TIME (24 hr CLOCK)	GAS METER READING (V_m), ft^3	VELOCITY HEAD (Δp_s), in. H_2O	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O DESIRED	ORIFICE PRESSURE DIFFERENTIAL (ΔH), in. H_2O ACTUAL	STACK TEMPERATURE (T_s), °F	DRY GAS METER TEMPERATURE INLET ($T_{m_{in}}$), °F	DRY GAS METER TEMPERATURE OUTLET ($T_{m_{out}}$), °F	PUMP VACUUM, in. Hg	SAMPLE BOX TEMPERATURE °F	IMPINGER TEMPERATURE °F
	0	0831	952.034									
PT #6	10	0841	956.300	0.45	0.64	0.64	92	94	92	6.0	260	64
	20	0851	960.650	0.45	0.64	0.64	98	96	92	6.2	260	64
	30	0901	964.930	0.43	0.61	0.61	99	101	94	6.0	255	62
	40	0911	969.290	0.45	0.65	0.65	93	106	96	6.2	250	62
	50	0921	973.720	0.45	0.65	0.65	96	108	98	6.4	260	62
	60	0931	978.170	0.43	0.62	0.62	97	110	98	6.4	260	60
	70	0941	983.080	0.60	0.87	0.87	97	110	100	7.5	250	60
	80	0951	988.200	0.60	0.87	0.87	97	112	100	7.8	260	60
	90	1001	993.330	0.60	0.87	0.87	95	112	102	7.8	260	60
	100	1011	998.460	0.60	0.88	0.88	93	113	102	7.8	260	60
	110	1021	1003.620	0.60	0.87	0.87	94	114	102	8.0	260	60
	120	1031	1008.580	0.55	0.80	0.80	97	114	104	7.5	260	60
	130	1041	1013.710	0.60	0.88	0.88	93	114	104	8.0	245	60
	140	1051	1018.840	0.60	0.88	0.88	91	114	104	8.0	245	60
	150	1101	1024.090	0.60	0.88	0.88	89	114	104	8.0	250	62
	160	1111	1029.160	0.60	0.88	0.88	90	115	105	8.2	260	62
	170	1121	1034.280	0.60	0.88	0.88	91	116	105	8.2	245	62
	180	1131	1038.690	0.40	0.59	0.59	93	116	105	7.0	245	62

* USED PUMP (11) WITH METER BOX FB-3

PARTICULATE SAMPLE RECOVERY AND INTEGRITY SHEET

Plant DETROIT Sample date 6/26/85

Sample location OUTLET Recovery date 6/26/85

Run No. PC00-3 Recovered by DJ/CB

Filter No(s). 5300002

XAD-2 sorbent trap No. 003 Cont # 3622 B

MOISTURE

	1st impinger	2nd impinger	3rd impinger	4th impinger	Silica gel
Final volume wt.	659.8 g	596.6 g	506.2 g	___ g	886.9 g
Initial volume wt.	577 g	598.9 g	504.8 g	— g	868.1 g
Net volume wt.	82.8 g	-2.3 g	1.4 g	___ g	18.8 g
Description of impinger contents	C/PAR				40 % spent

Total moisture 100.7 g

RECOVERED SAMPLE

Filter container number(s) 3620 A (In with Methylene Chloride Rinse) Sealed ✓

Description of particulate on filter BLACK

Probe rinse container no. Methylene Chloride 3620 A Methanol 3621 A		Liquid level marked	✓	Container sealed	✓
Methanol blank container no.	3610 A	Liquid level marked	✓	Container sealed	✓
Impinger contents container no.	3622 A	Liquid level marked	✓	Container sealed	✓
Methylene Chloride blank container no.	3609 A	Liquid level marked	✓	Container sealed	✓

Samples stored and locked: Cooler No. _____ Ice supply _____

Remarks _____

LABORATORY CUSTODY

Received by [signature] Date 6/2[illegible]

Remarks _____

Container sealed? _____ On Ice? _____

Note any signs of sample leakage or spillage: _____

DRY MOLECULAR WEIGHT DETERMINATION

PLANT DWSD - DETROIT
DATE 6/26/85 TEST NO PLOO-3
SAMPLING TIME (24-hr CLOCK)
SAMPLING LOCATION OUTLET
SAMPLE TYPE (BAG, INTEGRATED, CONTINUOUS) BAG
ANALYTICAL METHOD ORSAT
AMBIENT TEMPERATURE 80
OPERATOR DS
ORSAT LEAK CHECKED ✓

COMMENTS:

RUN / GAS	1		2		3		AVERAGE NET VOLUME	MULTIPLIER	MOLECULAR WEIGHT OF STACK GAS (DRY BASIS) M_d, lb/lb-mole
	ACTUAL READING	NET	ACTUAL READING	NET	ACTUAL READING	NET			
CO_2	3.2	3.2	3.3	3.3			3.25	44/100	
O_2 (NET IS ACTUAL O_2 READING MINUS ACTUAL CO_2 READING)	18.2	15.0	18.2	14.9			14.95	32/100	
CO (NET IS ACTUAL CO READING MINUS ACTUAL O_2 READING)								28/100	
N_2 (NET IS 100 MINUS ACTUAL CO READING)								28/100	
								TOTAL	

QUAD VOST SAMPLING DATA

Date 4/27/85 Location No. 9 Detroit WSD Run No. VE-1 Operator RR

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T413 TC480 From Can No. 1A Pretest Leak Check 0.1 in.Hg/min at 9.9 in.Hg vacuum

Barometric Pressure (P_b) 29.65 in.Hg Ambient Temperature 93 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rotameter setting	Sampling train vacuum, in.Hg	Dry gas meter temperature, °F	Primary condenser exit temp., °F	Probe temperature, °F	
0	852	0.000						
5	857	5.15	58	2.0	~~97~~93	58	NA	Probe @ Stack temp
10	902	10.26	58	2.0	94	49	"	
15	907	15.14	57	2.5	94	49	"	
20	912	20.059	57	2.5	96	46	"	
V_m		20.059		Avg.	94			

Post-Test Leak Check 0.0 in.Hg/min at 3.1 in.Hg Vacuum Trap Pair Label No. [illegible] 4/27/85

Flow Direction Marked? ✓ Condensate Recovered? [illegible] VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. 1A on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = [illegible] liters

QUAD VOST SAMPLING DATA

Date 6/27/85 Location No. 9 Inlet Detroit WSD Run No. VI-2 Operator [illegible]

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T262 TC453 From Can No. 1A Pretest Leak Check 0.0 in.Hg/min at 10.0 in.Hg vacuum

Barometric Pressure (P_b) 29.65 in.Hg Ambient Temperature 94 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	932	0.000						
5	937	5.12	58	2.5	100	53	NA	Probe @ Stack temp
10	942	10.19	57	2.8	101	46	NA	
15	947	15.24	57	3.0	103	48	NA	
20	952	20.325	57	3.0	104	49	NA	
V_m		20.325		Avg.	102			

Post-Test Leak Check 0.0 in.Hg/min at 3.8 in.Hg Vacuum Trap Pair Label No. VI-2

Flow Direction Marked? ✓ Condensate Recovered? NC VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. 1A on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_{b,\ in.Hg}}{T_m,\ °R}$ = [illegible] liters

QUAD VOST SAMPLING DATA

Date 6/27/85 Location No. 9 Mile/Detroit WSD Run No. VI-3 Operator CR

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T10 TC504 From Can No. 1A Pretest Leak Check 0.0 in.Hg/min at 9.5 in.Hg vacuum

Barometric Pressure (P_b) 29.65 in.Hg Ambient Temperature 93 °F Probe Purged ___ minutes at ___ liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	1008	0.000						
5	1013	4.97	58	2.0	106	55	NA	Probe @ Stack Temp
10	1018	10.06	58	2.5	107	51	"	
15	1023	15.14	58	2.5	108	49	"	
20	1028	20.29	58	2.5	109	47	"	
	V_m	20.29 L		Avg.	107.5		"	

Post-Test Leak Check 0.0 in.Hg/min at 4.1 in.Hg Vacuum Trap Pair Label No. VI-3

Flow Direction Marked? ✓ Condensate Recovered? NO VOA Label Nos. ___

Total Volume of Condensate in Vials, ___ ml Remaining Condensate ___ mls Total Condensate Vol. ___ ml

Traps and Vial Stored in Can No. 1A on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_{b,\ in.Hg}}{T_m,\ °R}$ = 18.970 liters

QUAD VOST SAMPLING DATA

Date 6/26/85 Location No 13 Outlet Detroit WSD Run No. VO-1 Operator QR

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T-570 TC 157 From Can No. 1A Pretest Leak Check 0.0 in.Hg/min at 10.0 in.Hg vacuum

Barometric Pressure (P_b) 29.60 in.Hg Ambient Temperature 88 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	1242	0.000						
5	1247	5.08	59	~~96~~ 2.8	96	64	285	
10	1252	10.25	59	2.8	95	62	298	
15	1257	15.41	59	2.8	95	60	300	
20.0	1302	20.583	59	2.8	95	59	293	
	V_m	20.583		Avg.	95			

Post-Test Leak Check 0.0 in.Hg/min at 3.8 in.Hg Vacuum Trap Pair Label No. VO-1

Flow Direction Marked? ✓ Condensate Recovered? NO VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. 1A on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = 20.279 liters

QUAD VOST SAMPLING DATA

Date 6/26/85 Location No. 13 Outlet Detroit WSB Run No. VO-2 Operator GB

Test Condition Stack sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T495 TC374 From Can No. 1A Pretest Leak Check 0.0 in.Hg/min at 10.0 in.Hg vacuum

Barometric Pressure (P_b) 29.60 in.Hg Ambient Temperature 88 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rotameter setting	Sampling train vacuum, in.Hg	Dry gas meter temperature, °F	Primary condenser exit temp., °F	Probe temperature, °F	
0	1324	0.000						
5	1329	5.13	59	2.5	100	61	281	
10	1334	10.30	58	2.5	100	60	282	
15	1339	15.30	58	2.5	102	58	278	
20	1344	20.410	58	2.5	102	57	280	
V_m		20.410		Avg.	101			

Post-Test Leak Check 0.0 in.Hg/min at 4.0 in.Hg Vacuum Trap Pair Label No. VO-2

Flow Direction Marked? ✓ Condensate Recovered? NO VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. IN on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, {}^\circ\text{R}}$ = 19.270 liters

QUAD VOST SAMPLING DATA

Date 6/26/85 Location No. 13 Outlet Defroit WSD Run No. VO-3 Operator [signature]

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. T-243 T-486 From Can No. 1A Pretest Leak Check 0.0 in.Hg/min at 9.1 in.Hg vacuum

Barometric Pressure (P_b) 29.60 in.Hg Ambient Temperature 90 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	1407	0.000						
5	1412	5.02	58	3.0	103	62	281	
10	1417	10.19	58	3.0	104	59	279	
15	1422	15.30	57	3.0	104	56	279	
20	1427	20.471	57	3.0	105	55	278	
	V_m	20.471		Avg.	104			

Post-Test Leak Check 0.1 in.Hg/min at 3.9 in.Hg Vacuum Trap Pair Label No. VO-3

Flow Direction Marked? ✓ Condensate Recovered? NC VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. 1A on Ice? ✓ Culture Tubes and Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = 17.225 liters

QUAD VOST SAMPLING DATA

Date 6/26/85 Location No. 13 Outlet Detroit WSD Run No. VOC-1 Operator CR

Test Condition Stack gas Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. Charcoal tube From Can No. NA Pretest Leak Check 0.0 in.Hg/min at 10.0 in.Hg vacuum

Barometric Pressure (P_b) 24.60 in.Hg Ambient Temperature 90 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rotameter setting	Sampling train vacuum, in.Hg	Dry gas meter temperature, °F	Primary condenser exit temp., °F	Probe temperature, °F	
0	1518	0.000						
5	1523	5.14	57	2.0	102	57	280	
10	1528	10.23	58	2.0	103	53	280	
15	1533	15.39	58	2.0	103	51	281	
20	1538	20.606	58	2.0	104	51	281	
	V_m	20.606		Avg.	103			

Post-Test Leak Check 0.0 in.Hg/min at 4.2 in.Hg Vacuum Trap ~~Pair~~ Label No. VOC-1

Flow Direction Marked? ✓ Condensate Recovered? Yes VOA Label Nos. VO-1

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. ~10 ml

Traps and Vial Stored in Can No. 1A ~~NA~~ on Ice? ✓ ~~Culture Tubes and~~ Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = 19.381 liters

QUAD VOST SAMPLING DATA

Date 6/26/85 Location No. 13 Outlet Detroit WSD Run No. VOC-2 Operator _____

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. Charcoal Tube From Can No. NA Pretest Leak Check 0.0 in.Hg/min at 10.8 in.Hg vacuum

Barometric Pressure (P_b) 29.60 in.Hg Ambient Temperature 90 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	1602	0.000						
5	1607	5.01	58	2.0	105	56	280	
10	1612	10.06	58	2.0	105	53	282	
15	1617	15.25	58	2.0	105	52	280	
20	1622	20.390	58	2.0	107	52	280	
	V_m	20.390		Avg.	105.			

Post-Test Leak Check 0.0 in.Hg/min at 4.7 in.Hg Vacuum Trap ~~Pair~~ Label No. VOC-2

Flow Direction Marked? ✓ Condensate Recovered? ~~Yes~~ No VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. 14 on Ice? ✓ ~~Culture Tubes and~~ Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = 12.115 liters

QUAD VOST SAMPLING DATA

Date 6/27/85 Location 100.9 Inlet Detroit WSD Run No. VIC-1 Operator CR

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. Charcoal tube From Can No. NA Pretest Leak Check 0.0 in.Hg/min at 12-1 in.Hg vacuum

Barometric Pressure (P_b) 29.65 in.Hg Ambient Temperature 93 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rotameter setting	Sampling train vacuum, in.Hg	Dry gas meter temperature, °F	Primary condenser exit temp., °F	Probe temperature, °F	
0	1054	0.000						
5	1059	5.12	58	2.0	109	65	NA	Probe @ Stack Temp
10	1104	10.20	58	2.0	109	55	"	
15	1109	15.30	58	2.0	110	53	"	
20	1114	20.466	58	2.0	110	52	"	
	V_m	20.466		Avg.	109.5			

Post-Test Leak Check 0.0 in.Hg/min at 3.3 in.Hg Vacuum Trap Pair Label No. VIC-1

Flow Direction Marked? ✓ Condensate Recovered? NO VOA Label Nos. _____

Total Volume of Condensate in Vials, _____ ml Remaining Condensate _____ mls Total Condensate Vol. _____ ml

Traps and Vial Stored in Can No. IA on Ice? ✓ ~~Culture Tubes and Can~~ Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, {}^\circ R}$ = 19.066 liters

QUAD VOST SAMPLING DATA

Date 6/27/85 Location No. 9 Inlet Detroit WSD Run No. VIC-2 Operator RR

Test Condition Stack Sample Sampling Train No. 1 Meter Console No. VB-1 Y-Factor 1.014

Trap Nos. Charcoal tube From Can No. NA Pretest Leak Check 0.1 in.Hg/min at 9.9 in.Hg vacuum

Barometric Pressure (P_b) 29.65 in.Hg Ambient Temperature 93 °F Probe Purged 10 minutes at 1 liters/min

Sampling time, min.	Clock time (24-h)	Meter volume reading, liter	Rota-meter setting	Sampling train vacuum, in.Hg	Dry gas meter tempera-ture, °F	Primary condens-er exit temp., °F	Probe tempera-ture, °F	
0	1125	0.000						
5	1130	5.08	58	1.5	111	59	NA	Probe @ Stack Temp
10	1135	10.18	58	1.5	111	54	"	
15	1140	15.32	58	1.5	113	52	"	
20	1145	20.523	58	1.5	113	52	"	
	V_m	20.523		Avg.	112			

Post-Test Leak Check 0.0 in.Hg/min at 3.0 in.Hg Vacuum Trap Pair Label No. VIC-2

Flow Direction Marked? ✓ Condensate Recovered? Yes VOA Label Nos.

Total Volume of Condensate in Vials, ____ ml Remaining Condensate ____ mls Total Condensate Vol. ~10 ml

Traps and Vial Stored in Can No. IA on Ice? ✓ ~~Culture Tubes and~~ Can Purged With N_2? ✓

Special Conditions/Comments:

1) $V_{std} = V_m$, liters x Y x 17.647 x $\frac{P_b, \text{in.Hg}}{T_m, °R}$ = 19.036 liters

VOST BLANK DATA

Corresponding Sample Runs VO-1, 2 43

Sorbent Traps

1. Field Blanks	VO-1,2,3 Pair No. 1	VI-1,2,3 Pair No. 2	Pair No. 3
Date collected	6/26	6/27	
Time collected (24-h)	1441	1035	
Traps from Can No.	1A	1A	
Tenax Trap No.	T31	T328	
Tenax/charcoal Trap No.	TC505	TC362	
Connected to Sample Train No.	1	1	
Leak check, in.Hg/min at in.Hg vac.	10.0	10.0	
Culture tubes purged with N_2?	✓	✓	
Trap pair label ID	✓	✓	
Stored in Can No.	1A	1A	
Can Purged with N_2 and sealed?	✓	✓	
On Ice?	✓	✓	

2. Trip Blanks	Pair No. 1	Pair No. 2	Pair No. 3
Traps from Can No.	1B	1B	
Tenax/charcoal Trap No.	T-496	TC-530	
Trap pair label ID	✓	✓	
Culture tubes remained closed?	✓	✓	
Stored in Can No.	1B	1B	
Can purged with N_2 and sealed?	✓	✓	
On Ice?	✓	✓	

3. Lab Blanks	Pair No. 1	Pair No. 2	Pair No. 3
Date traps removed from VOST prep room to sample storage			
Traps in Can No.			
Tenax Trap No.			
Tenax/charcoal Trap No.			
Trap pair label ID			
Culture tubes remained closed?			
Stored in Can No.			
Can purged with N_2 and sealed?			
On Ice?			

Water

Date collected _____ VOA bottle size _____ ml Label No. _____

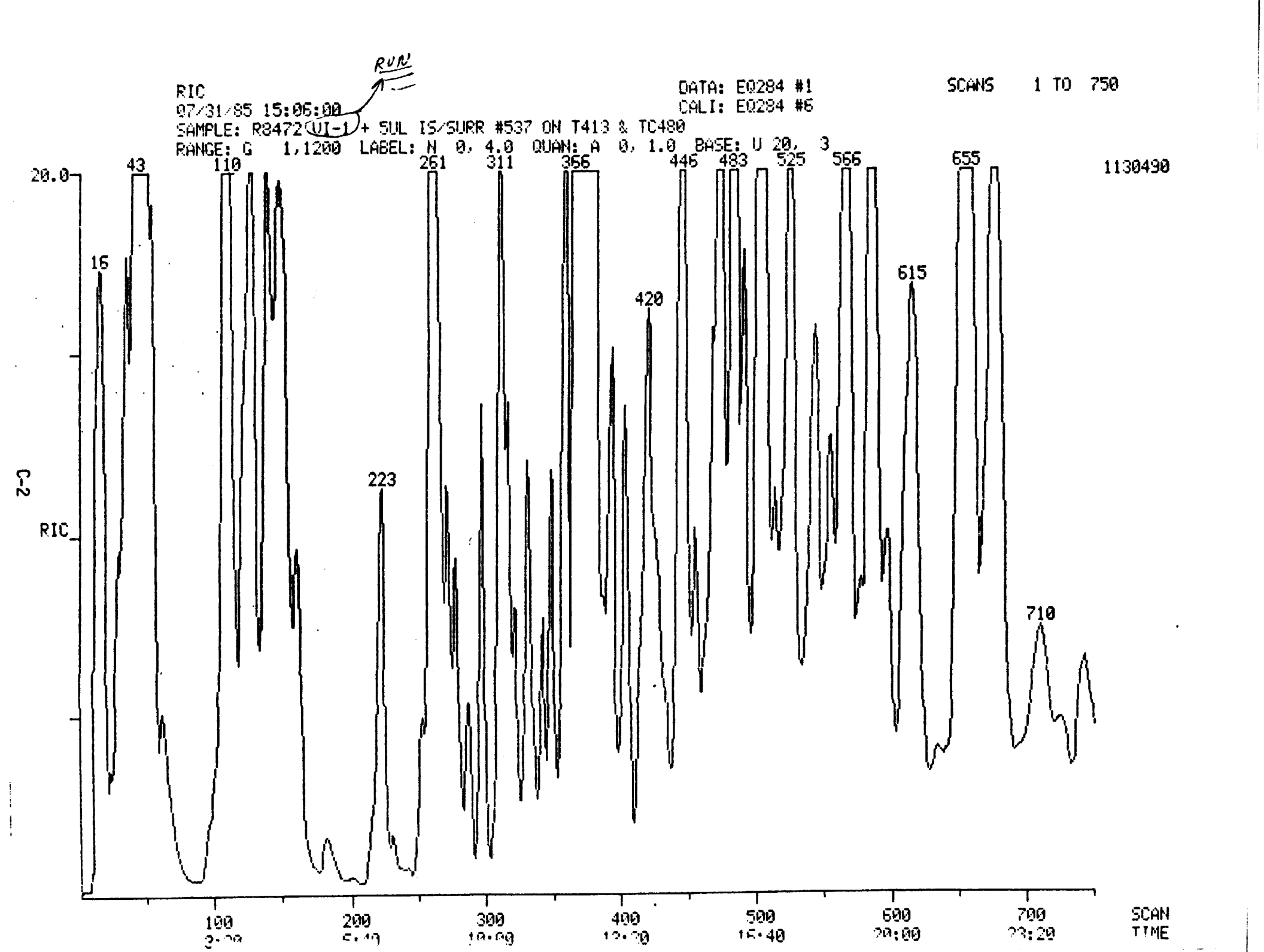
Stored Can No. _____ Purged with N_2 and sealed? _____ On ice? _____

Water used for _____

Remarks _____

APPENDIX C

LABORATORY DATA


RUN
RIC
07/31/85 15:06:00
SAMPLE: R8472 VI-1 + SUL IS/SURR #537 ON T413 & TC480
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
DATA: E0284 #1
CALI: E0284 #6
SCANS 1 TO 750
1130490
20.0
C-2
RIC
15
43
110
223
261
311
366
420
446
483
525
566
615
655
710
100
200
300
400
500
600
700
SCAN
TIME

QUANTITATION REPORT FILE: EQ284

DATA: EQ284.TI RUN
07/31/85 15:06:00
SAMPLE: R8472 (VI-1) + 5UL IS/SURR #537 ON T413 & TC480
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
7	CHLOROMETHANE (50) * *
8	BROMOMETHANE (94)
9	VINYL CHLORIDE (62) *
10	CHLOROETHANE (64)
11	METHYLENE CHLORIDE (84)
12	ACETONE (43)
13	CARBON DISULFIDE (76)
14	1,1-DICHLOROETHENE (96) * $
15	1,1-DICHLOROETHANE (63)
16	TRANS-1,2-DICHLOROETHENE (96)
17	CHLOROFORM (83) *
18	1,2-DICHLOROETHANE (62)
19	2-BUTANONE (72)
20	1,1,1-TRICHLOROETHANE (97)
21	VINYL ACETATE (43)
22	BROMODICHLOROMETHANE (83)
23	1,2-DICHLOROPROPANE (63) *
24	TRANS-1,3-DICHLOROPROPENE (75)
25	TRICHLOROETHENE (130) $
26	DIBROMOCHLOROMETHANE (129)
27	BENZENE (78) $
28	CIS-1,3-DICHLOROPROPENE (75)
29	2-CHLOROETHYL VINYL ETHER (63)
30	2-HEXANONE (43)
31	4-METHYL-2-PENTANONE (43)
32	TETRACHLOROETHENE (164)
33	1,1,2,2-TETRACHLOROETHANE (83)
34	TOLUENE (92) * $
35	CHLOROBENZENE (112) * * $
36	ETHYLBENZENE (106) *
37	STYRENE (104)
38	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	186	6:12	1	1.000	A BB	26101.	250.000	NG OC	0.43
2	114	425	14:10	2	1.000	A VB	451136.	250.000	NG OC	0.43
3	117	523	17:26	3	1.000	A BB	317770.	250.000	NG OC	0.43
4	65	258	8:36	1	1.387	A VV	78672.	379.295	NG OC	0.66
5	98	500	16:40	2	1.176	A BB	319741.	225.886	NG OC	0.39
6	95	615	20:30	3	1.176	A VB	359408.	376.249	NG OC	0.65

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
7	50	29	0:58	1	0.156	A BB	981055.	7058.870	NG OC	12.22
8	94	46	1:32	1	0.247	A VB	5481.	20.199	NG OC	0.03
9	62	55	1:50	1	0.296	A VB	2228300.	12732.500	NG OC	22.05
10	64	68	2:16	1	0.366	A VB	161304.	1600.440	NG OC	2.77
11	84	102	3:24	1	0.548	A BB	55243.	174.753	NG OC	0.30
12	43	123	4:06	1	0.661	A BV	1607390.	5654.930	NG OC	9.79
13	76	147	4:58	1	0.801	A BB	2450690.	3151.300	NG OC	5.46
14	96	182	6:04	1	0.978	A BB	24419.	99.758	NG OC	0.17
15	63	211	7:02	1	1.134	A BB	2459.	4.888	NG OC	0.01
16	96	229	7:38	1	1.231	A BB	14570.	43.823	NG OC	0.08
17	83	238	7:56	1	1.280	A BB	27048.	50.731	NG OC	0.09
18	62	260	8:40	1	1.398	A BV	25586.	91.268	NG OC	0.16
19	72	263	8:46	1	1.414	A VB	194200.	1508.740	NG OC	2.61
20	97	287	9:34	1	1.543	A BB	2811.	6.452	NG OC	0.01
21	43	306	10:12	1	1.645	A BV	252499.	223.165	NG OC	0.39
22	83	310	10:20	2	0.729	A BV	126283.	191.528	NG OC	0.33
23	63	337	11:14	2	0.793	A VB	1647.	3.017	NG OC	0.01
24	75	337	11:14	2	0.793	A BB	8375.	13.950	NG OC	0.02
25	130	356	11:52	2	0.838	A BB	247923.	368.940	NG OC	0.64
26	129	366	12.12	2	0.861	A BB	2338.	3.324	NG OC	0.01
27	78	368	12:16	2	0.866	A BB	9007550.	5551.600	NG OC	9.61
28	75	366	12:12	2	0.861	A BB	1069320.	2045.500	NG OC	3.54
29	63	403	13:26	1	2.167	A BB	3504.	68.939	NG OC	0.12
30	43	469	15:38	3	0.897	A BV	637728.	712.200	NG OC	1.23
31	43	440	14:40	2	1.035	A BV	190952.	148.247	NG OC	0.26
32	164	473	15:46	3	0.904	A BB	1080530.	1873.890	NG OC	3.24
33	83	464	15:28	3	0.887	A BV	47746.	57.603	NG OC	0.10
34	92	502	16:44	2	1.181	A BB	5523670.	4383.730	NG OC	7.59
35	112	525	17:30	3	1.004	A BV	2944960.	1942.220	NG OC	3.36
36	106	567	18:54	3	1.084	A BB	1177880.	1693.560	NG OC	2.93
37	104	651	21:42	3	1.245	A BB	2616650.	2168.560	NG OC	3.75
38	106	677	22:34	3	1.294	A VB	1870370.	2373.430	NG OC	4.11

LIBRARY SEARCH
07/31/85 15:06:00 + 0:34
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

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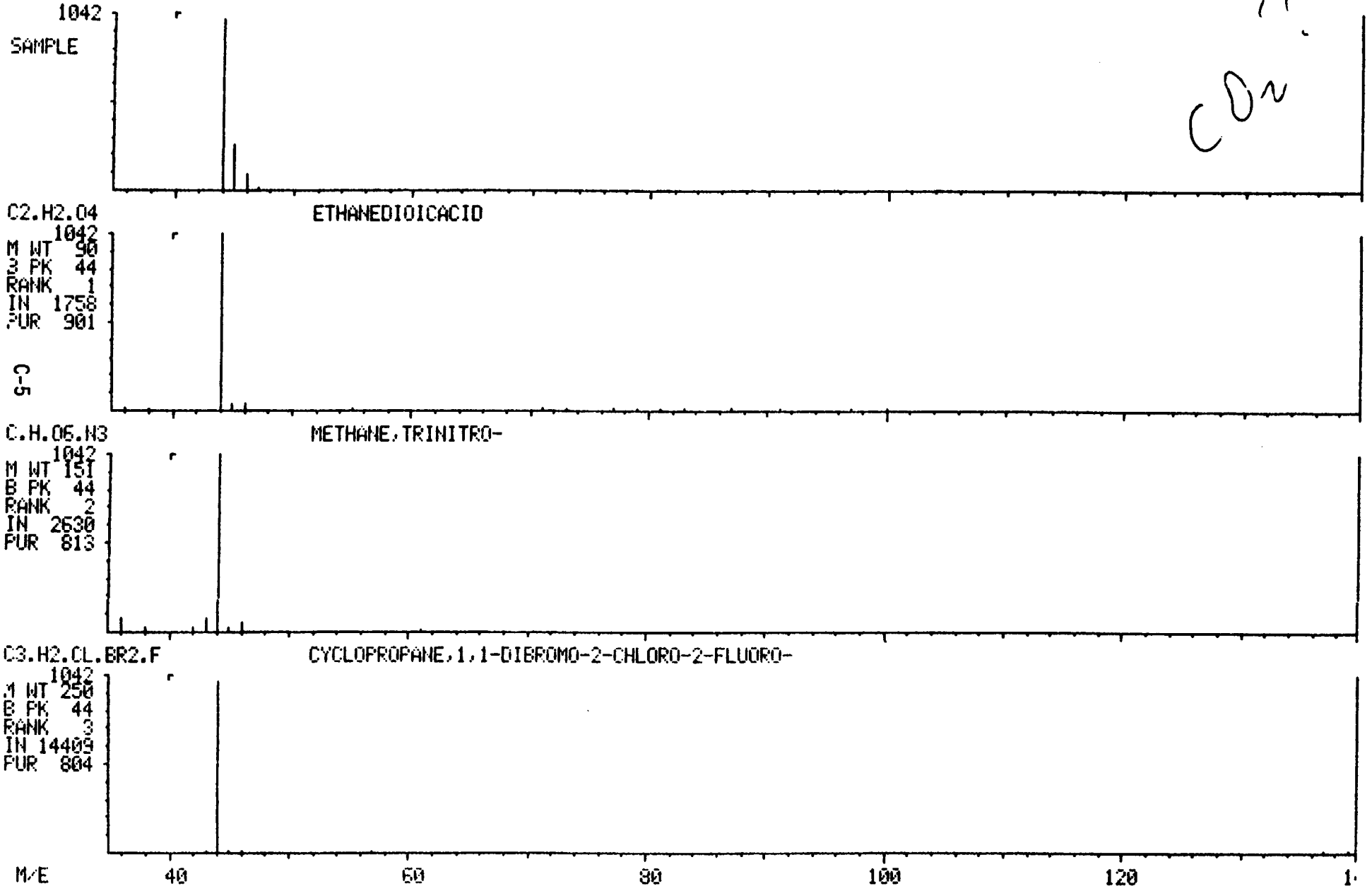
CALI: EQ284 # 6

BASE M/E: 44
RIC: 315455.



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07/31/85 15:06:00 + 0:58
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ENHANCED (S 15B 2N 0T)

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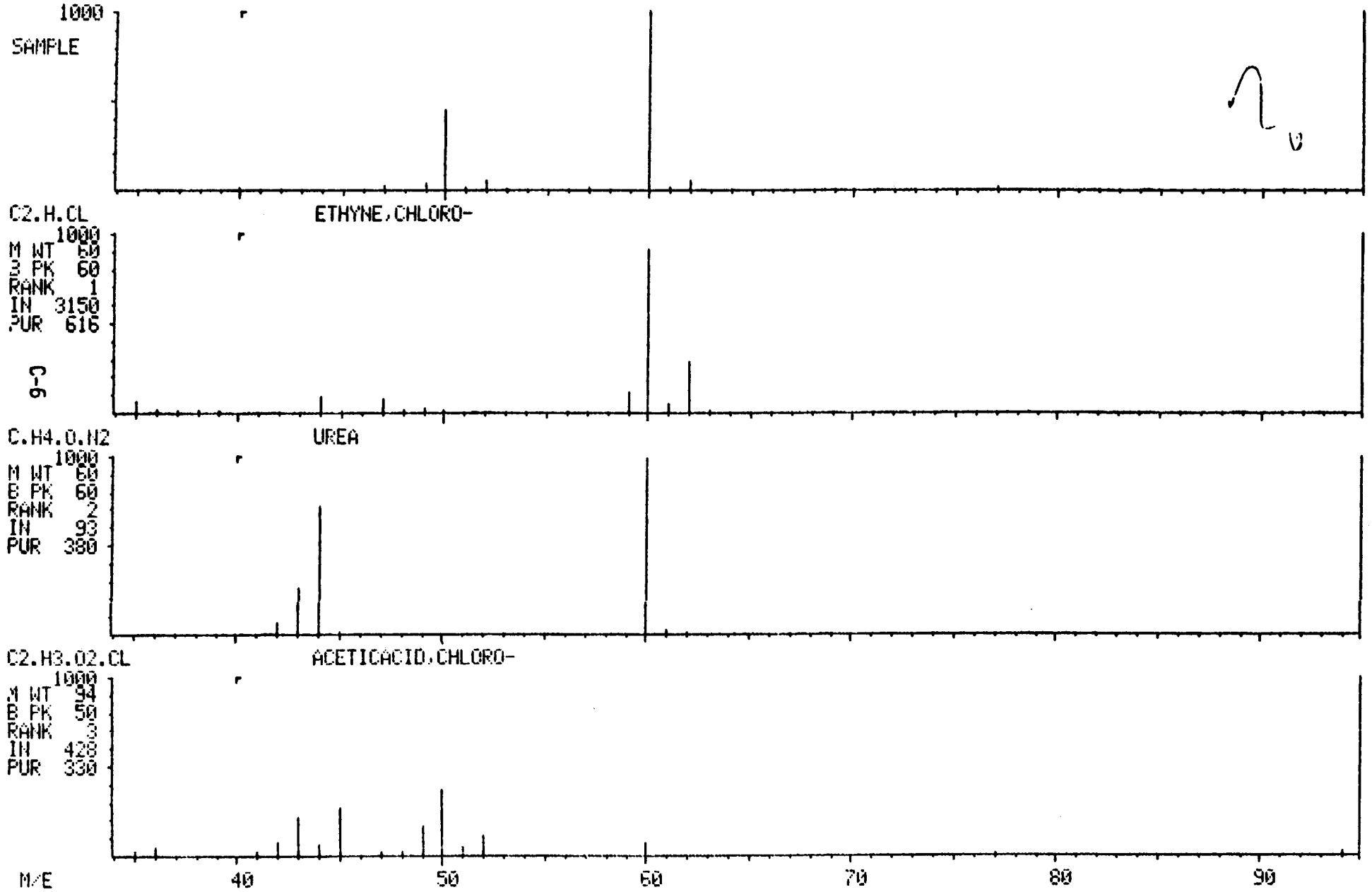
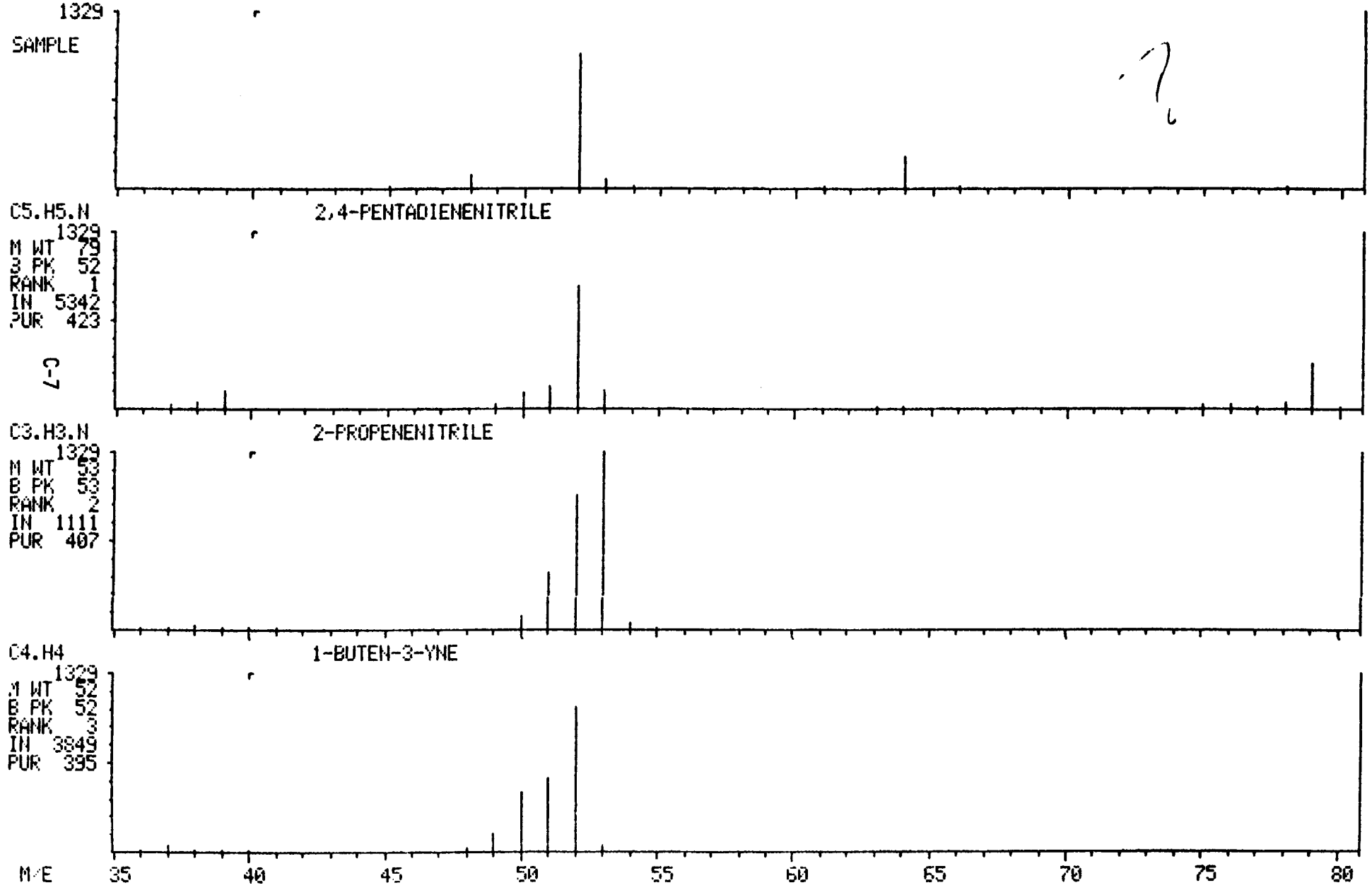
BASE M/E: 60
RIC: 353791.



LIBRARY SEARCH
07/31/85 15:06:00 + 1:12
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 36
CALI: E0284 # 6

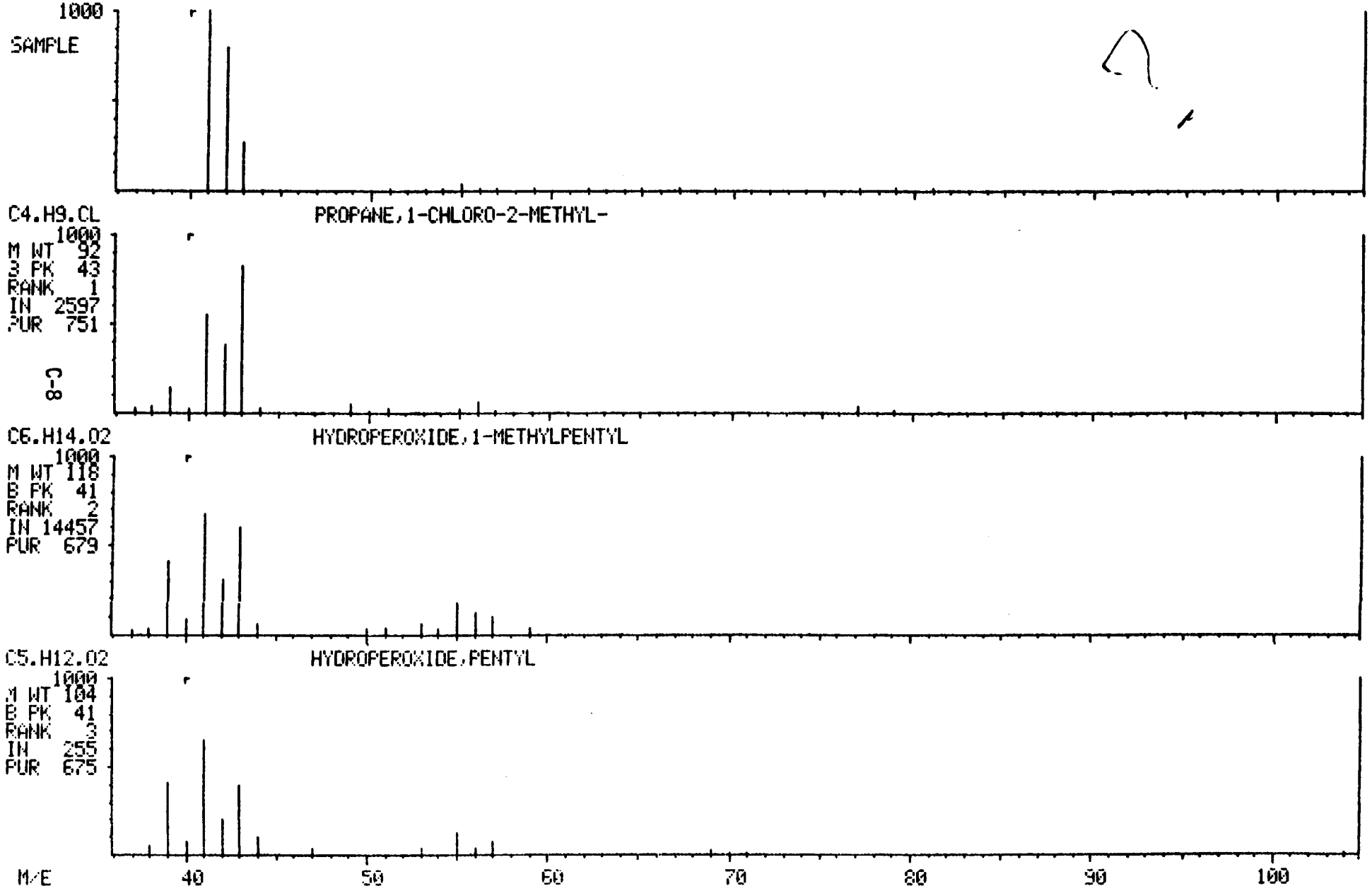
BASE M/E: 52
RIC: 626687.



LIBRARY SEARCH
07/31/85 15:08:00 + 1:26
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC430
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 43
CALI: E0284 # 6

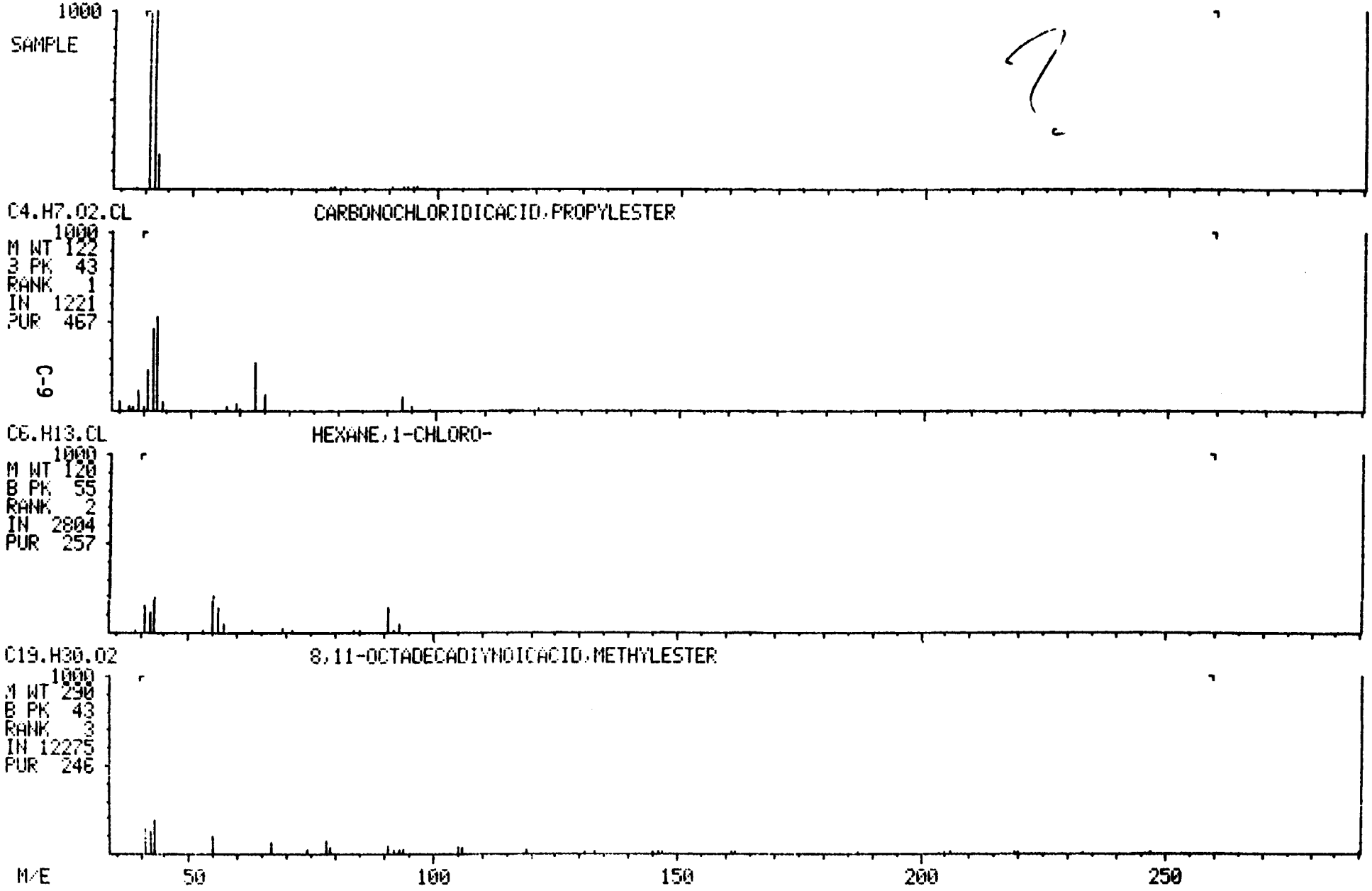
BASE M/E: 41
RIC: 971775.



LIBRARY SEARCH
07/31/85 15:06:00 + 1:32
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC430
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 46
CALI: E0284 # 6

BASE M/E: 42
RIC: 924671.

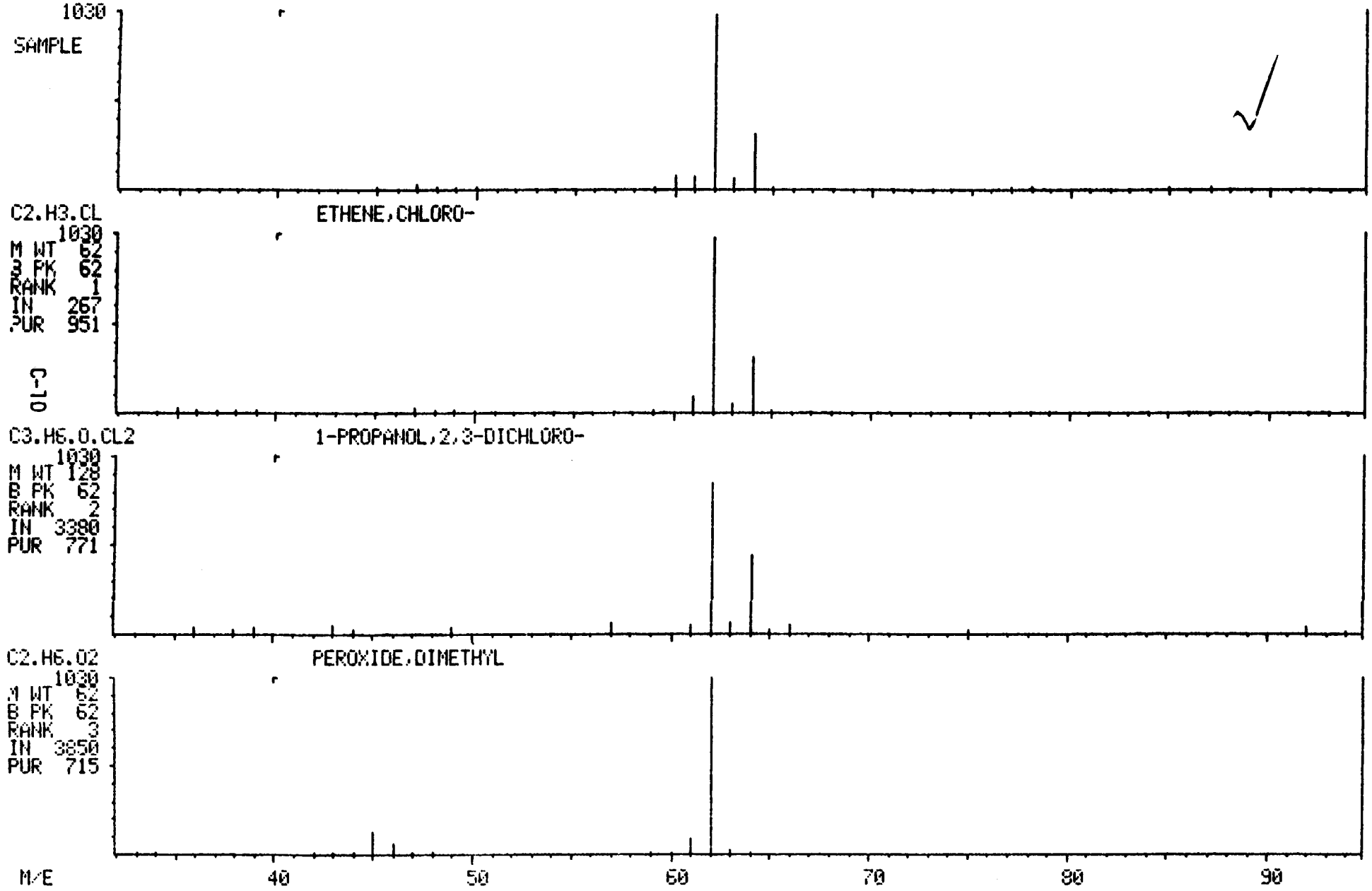


LIBRARY SEARCH
07/31/85 15:06:00 + 1:50
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 55
CALI: E0284 # 6

BASE M/E: 62
RIC: 633855.

HSL



LIBRARY SEARCH
07/31/85 15:06:00 + 2:04
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

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CALI: EQ284 # 6

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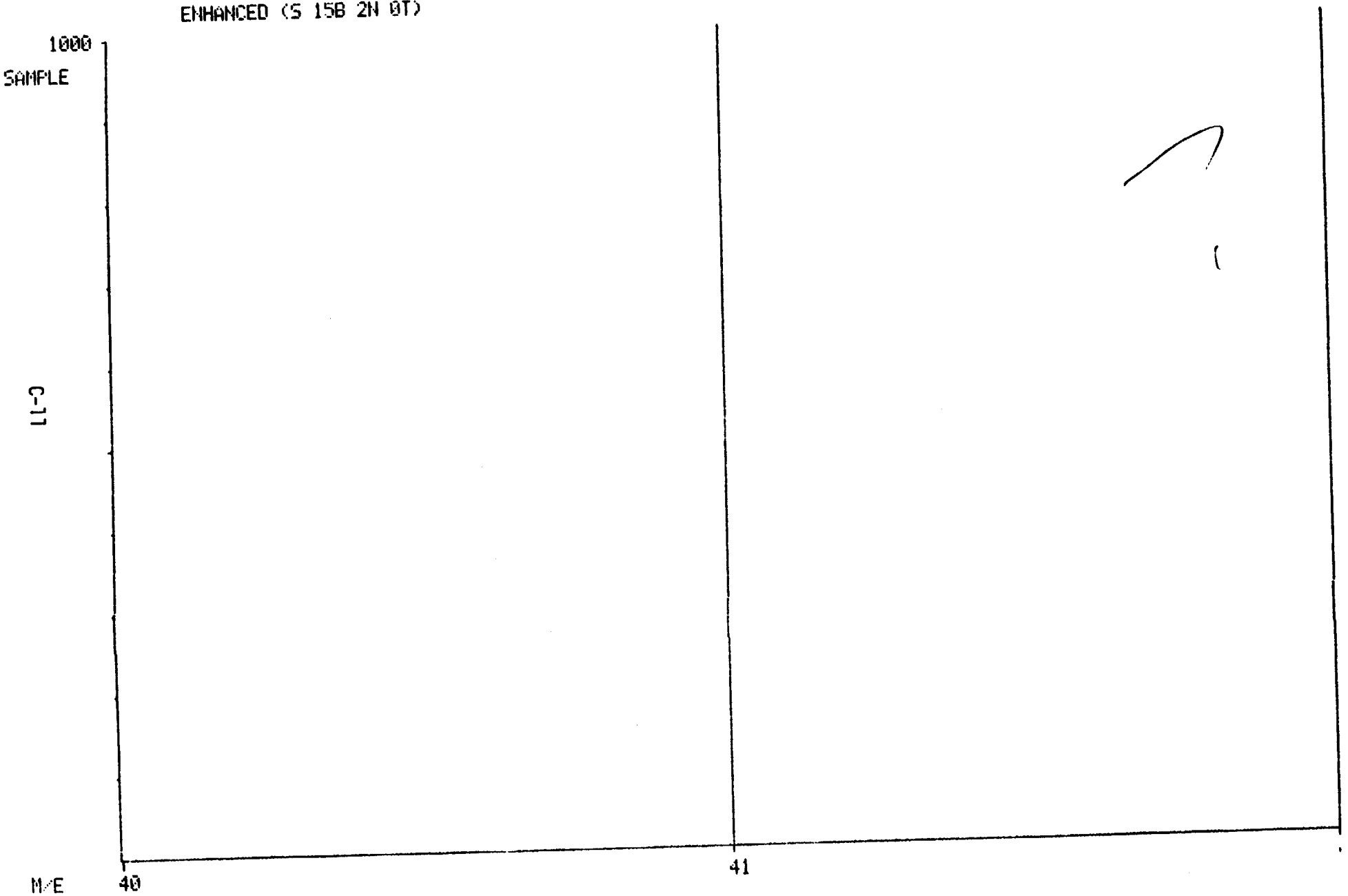
RIC: 95103.



LIBRARY SEARCH
07/31/85 15:05:00 + 2:16
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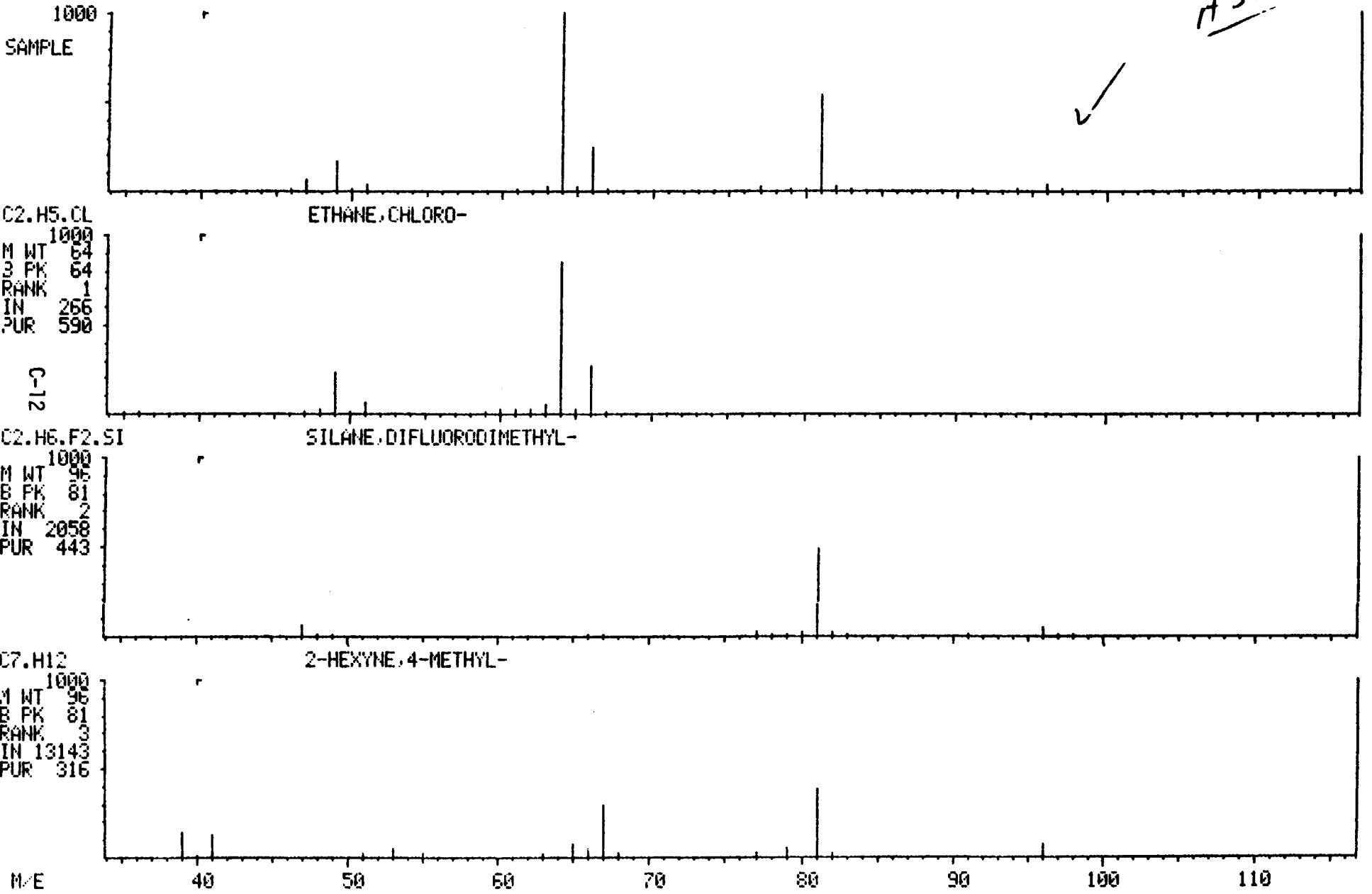
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 68
CALI: EQ284 # 6

BASE M/E: 64
RIC: 32575.

MSL



LIBRARY SEARCH
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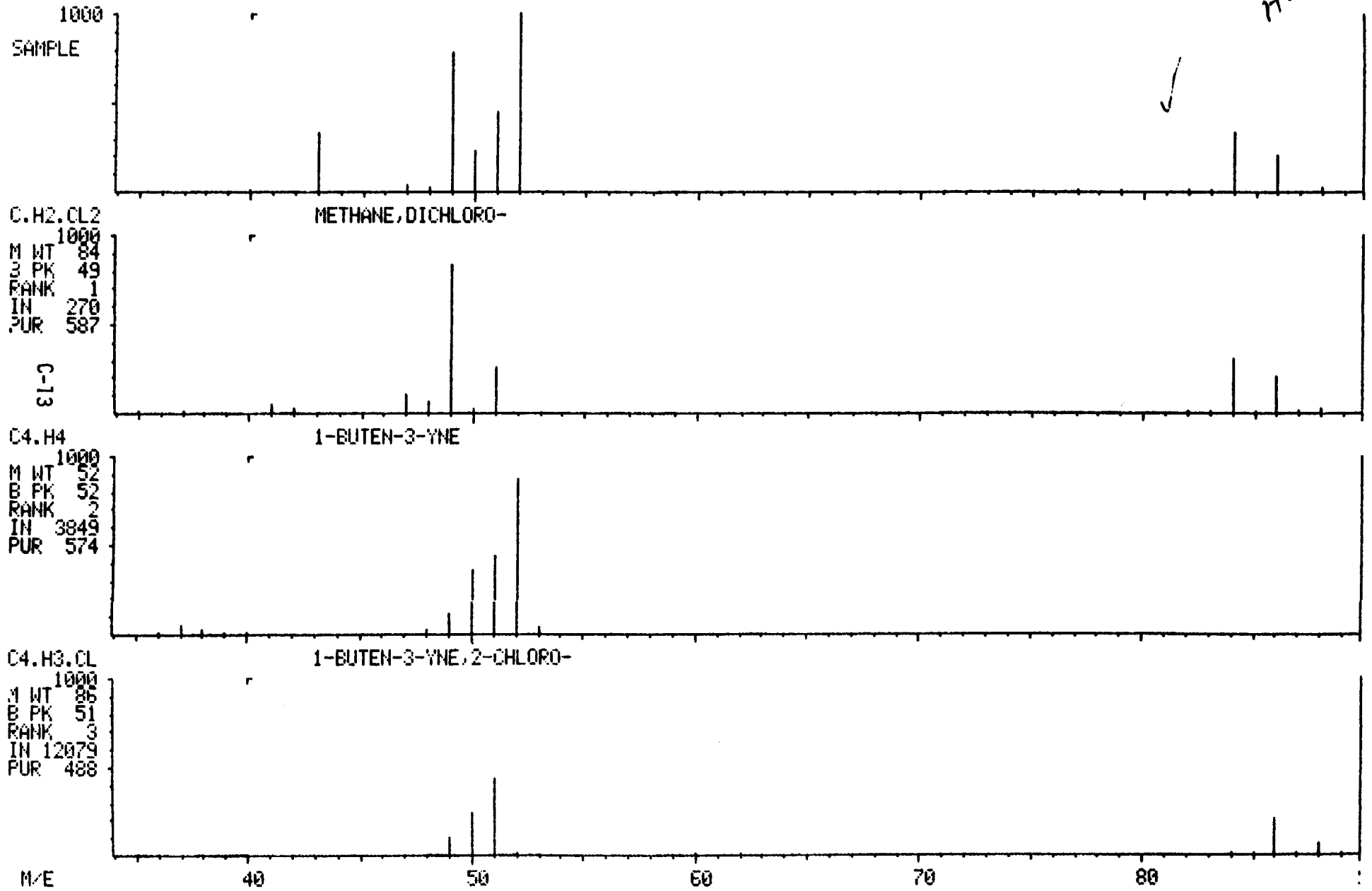
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 102
CALI: E0284 # 6

BASE M/E: 52
RIC: 89727.

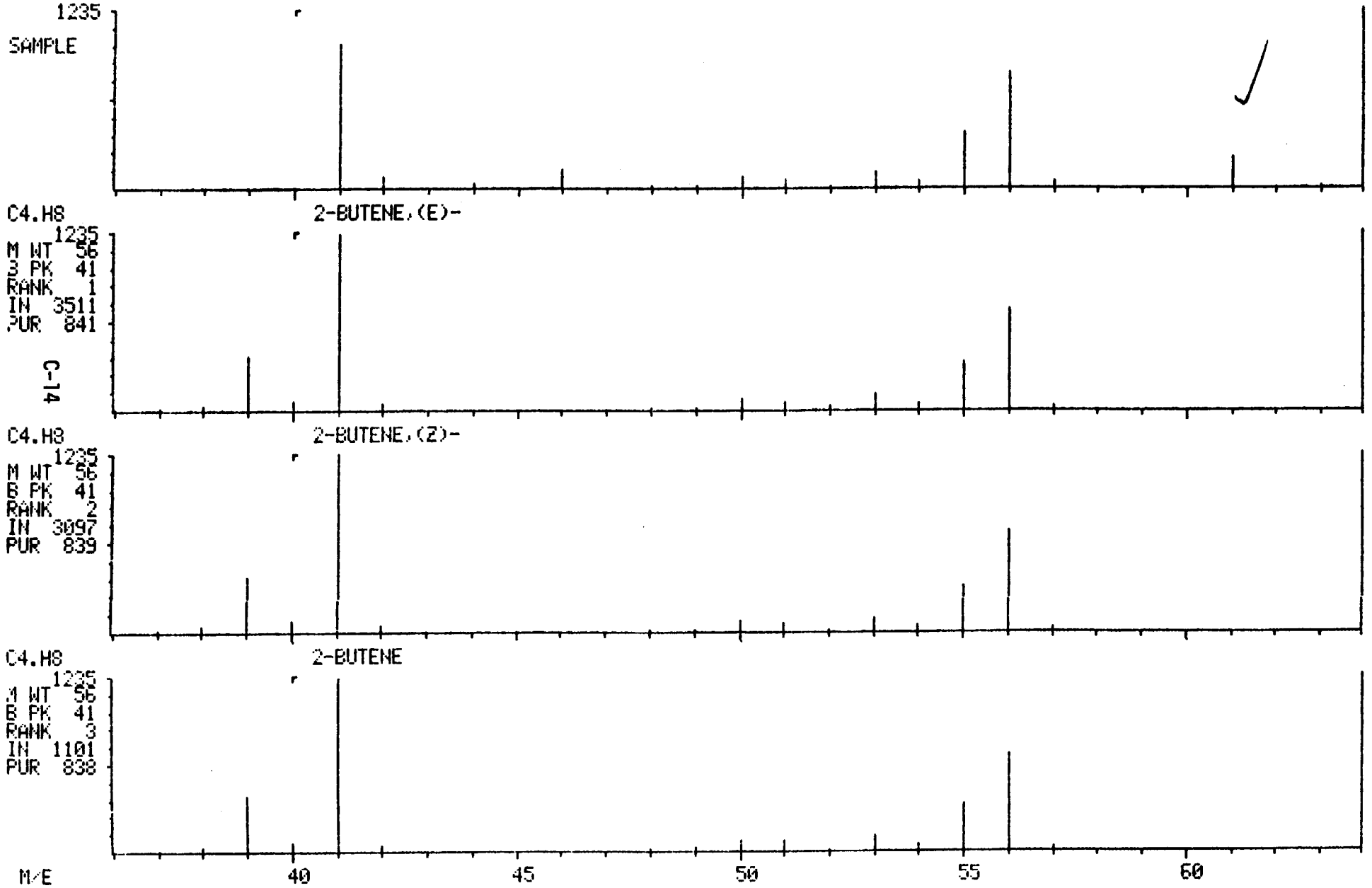
HSL



LIBRARY SEARCH
07/31/85 15:06:00 + 3:40
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 110
CALI: E0284 # 6

BASE M/E: 41
RIC: 1675260.



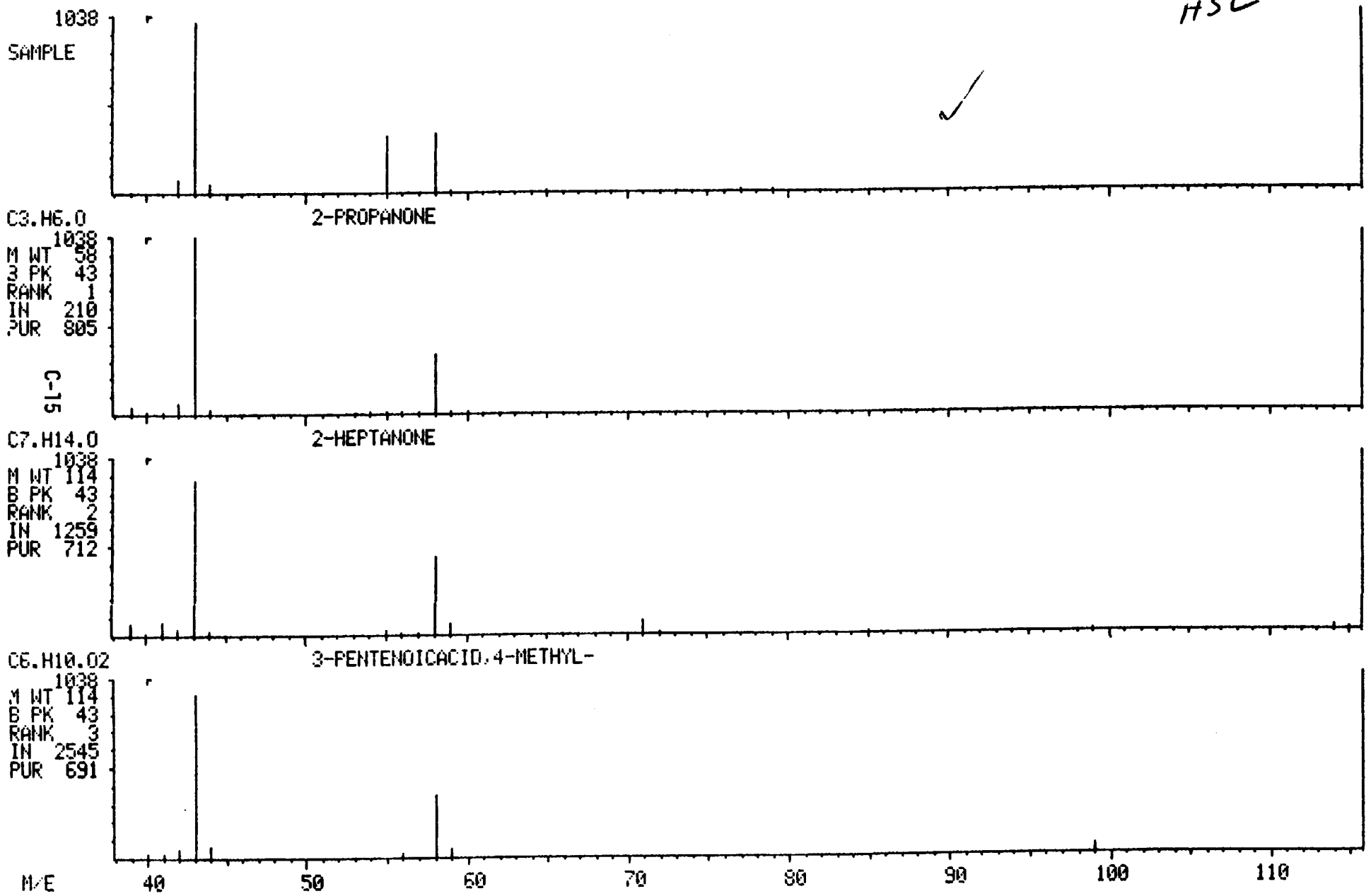
C-14

LIBRARY SEARCH
07/31/85 15:06:00 + 4:06
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 123
CALI: EQ284 # 6

BASE M/E: 43
RIC: 362495.

HSL

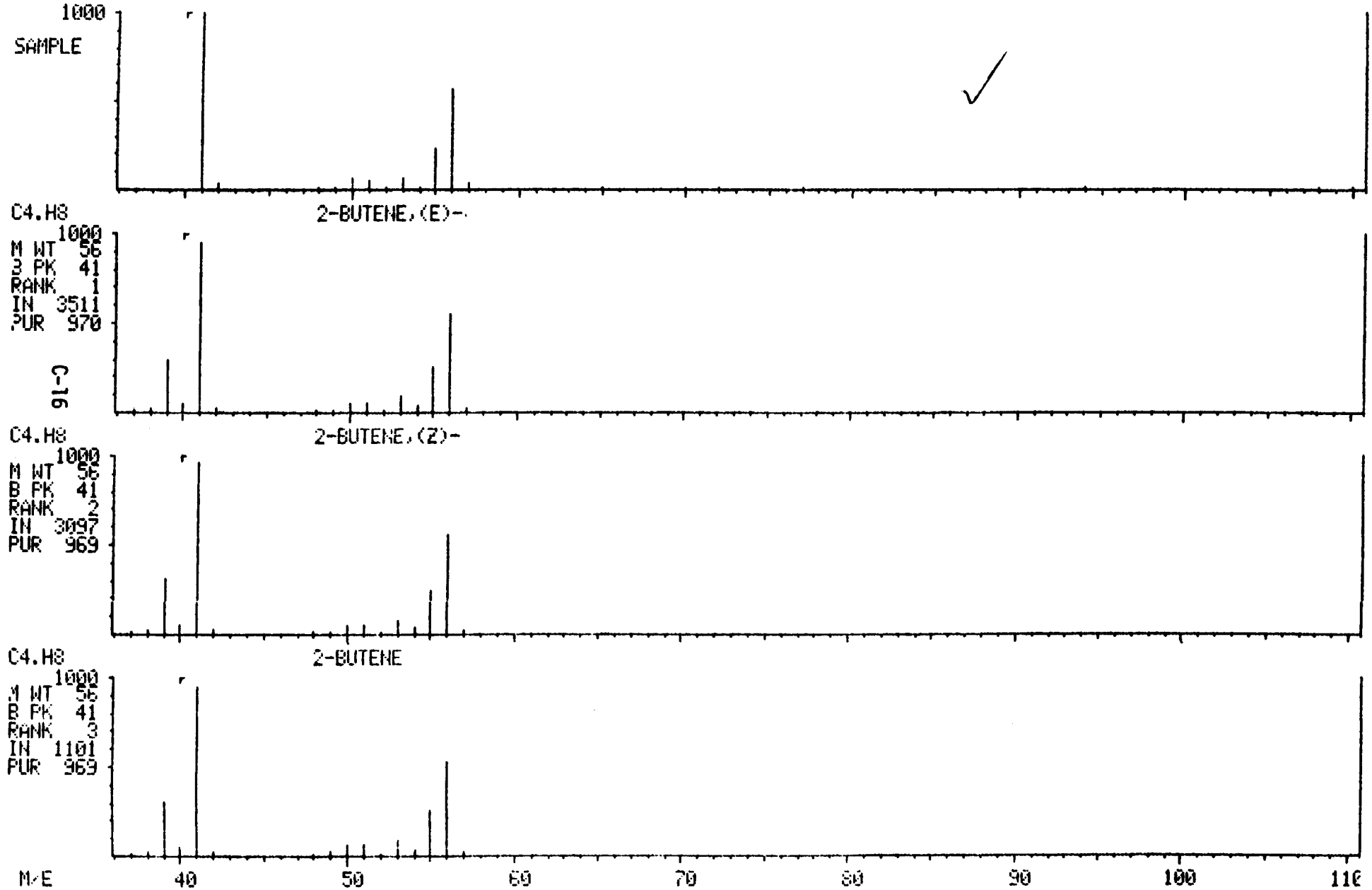


C-15

LIBRARY SEARCH
07/31/85 15:06:00 + 4:16
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 158 2N 0T)

DATA: EQ284 # 128
CALI: EQ284 # 6

BASE M/E: 41
RIC: 794623.



LIBRARY SEARCH
07/31/85 15:06:00 + 4:40
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 140
CALI: E0284 # 6

BASE M/E: 53
RIC: 793599.

1435
SAMPLE

C3.H3.N 2-PROPENENITRILE
1435
M WT 53
B PK 53
RANK 1
IN 1111
PUR 887

C-17

C6.H6.N2 1,3-CYCLOBUTANEDICARBONITRILE,TRANS-
1435
M WT 106
B PK 53
RANK 2
IN 9552
PUR 585

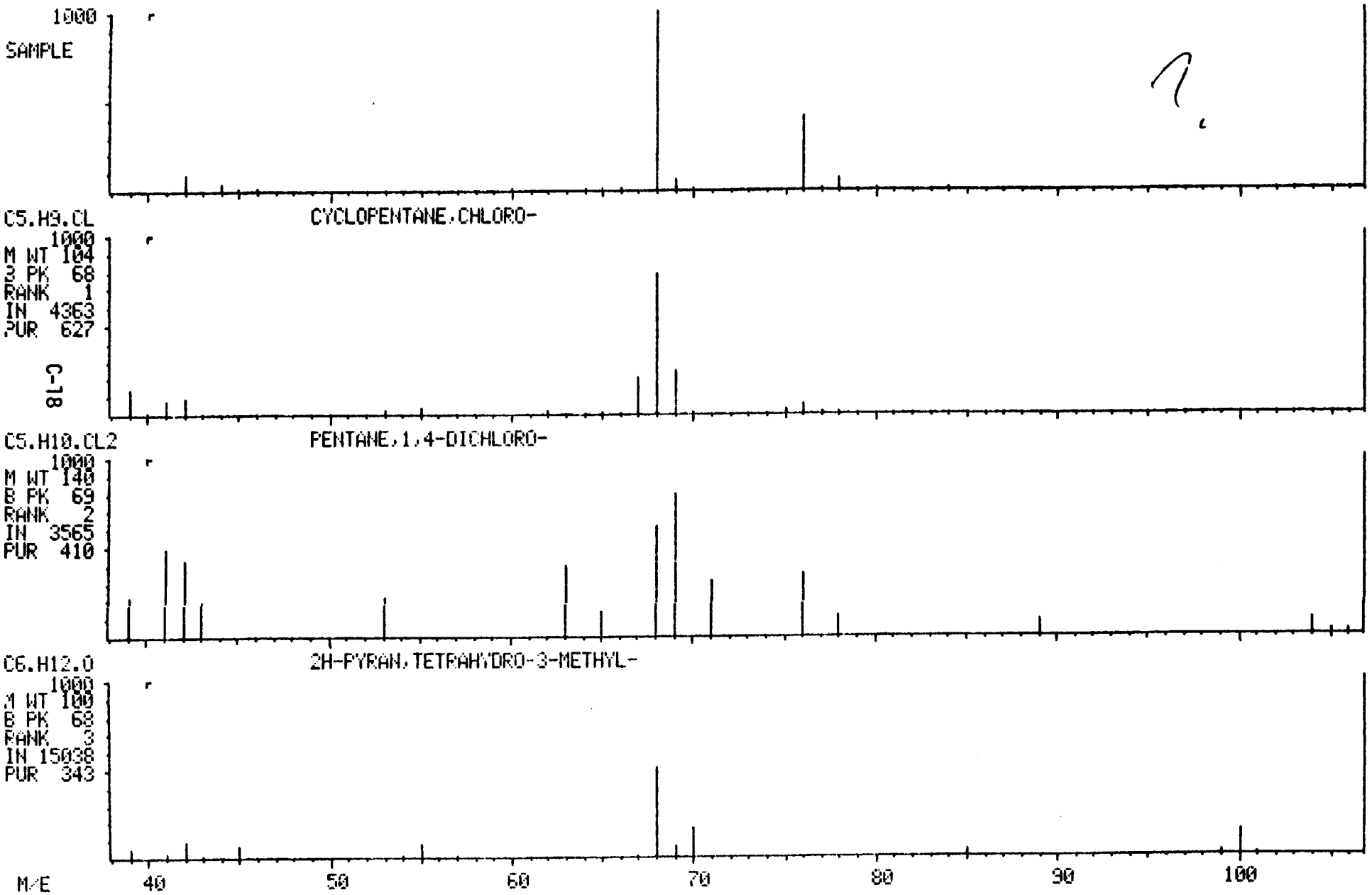
C6.H6.N2 1,2-CYCLOBUTANEDICARBONITRILE,CIS-
1435
M WT 106
B PK 53
RANK 3
IN 6928
PUR 582

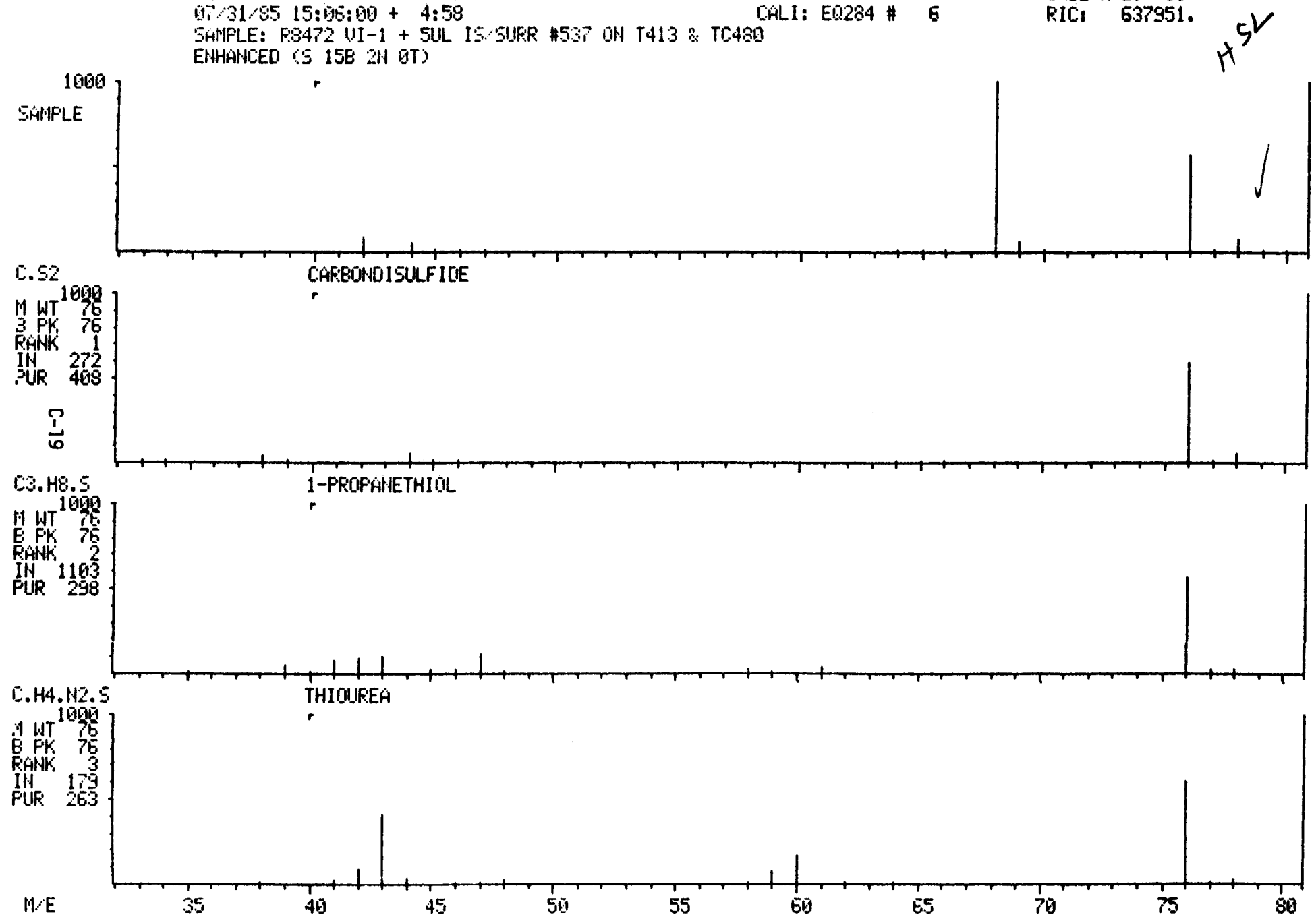
M/E
40 50 60 70 80 90 100

LIBRARY SEARCH
07/31/85 15:06:00 + 4:54
SAMPLE: R8472 VI-1 + SUL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 147
CALI: E0284 # 6

BASE M/E: 68
RIC: 668671.

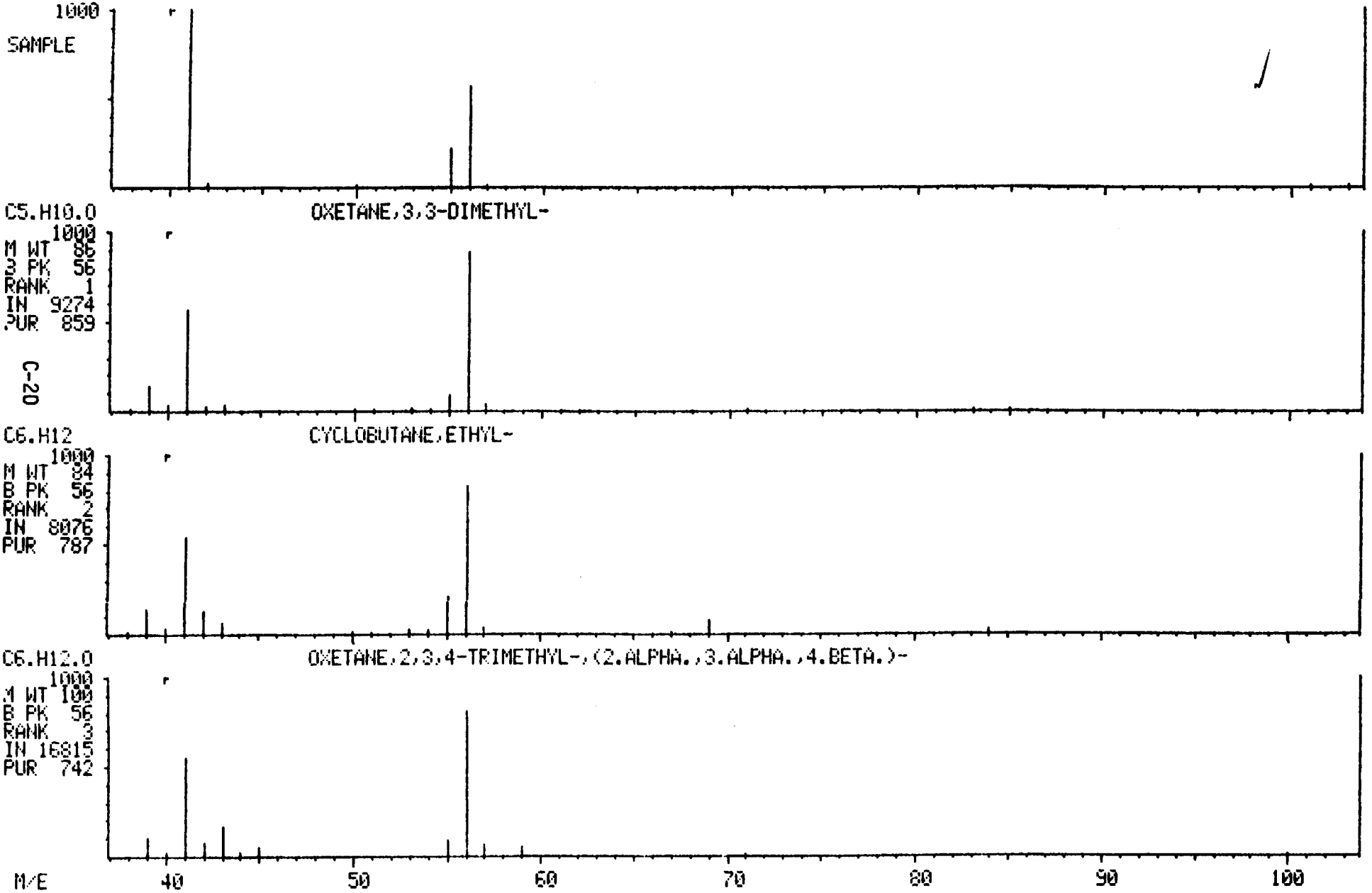



LIBRARY SEARCH
07/31/85 15:06:00 + 4:58
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)
DATA: EQ284 # 149
CALI: EQ284 # 6
BASE M/E: 68
RIC: 637951.
H SV
1000
SAMPLE
C.S2
CARBONDISULFIDE
1000
M WT 76
3 PK 76
RANK 1
IN 272
PUR 408
C-19
C3.H8.S
1-PROPANETHIOL
1000
M WT 76
B PK 76
RANK 2
IN 1103
PUR 298
C.H4.N2.S
THIOUREA
1000
M WT 76
B PK 76
RANK 3
IN 179
PUR 263
M/E
35
40
45
50
55
60
65
70
75
80

LIBRARY SEARCH
07/31/85 15:06:00 + 5:20
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 160
CALI: EQ284 # 6

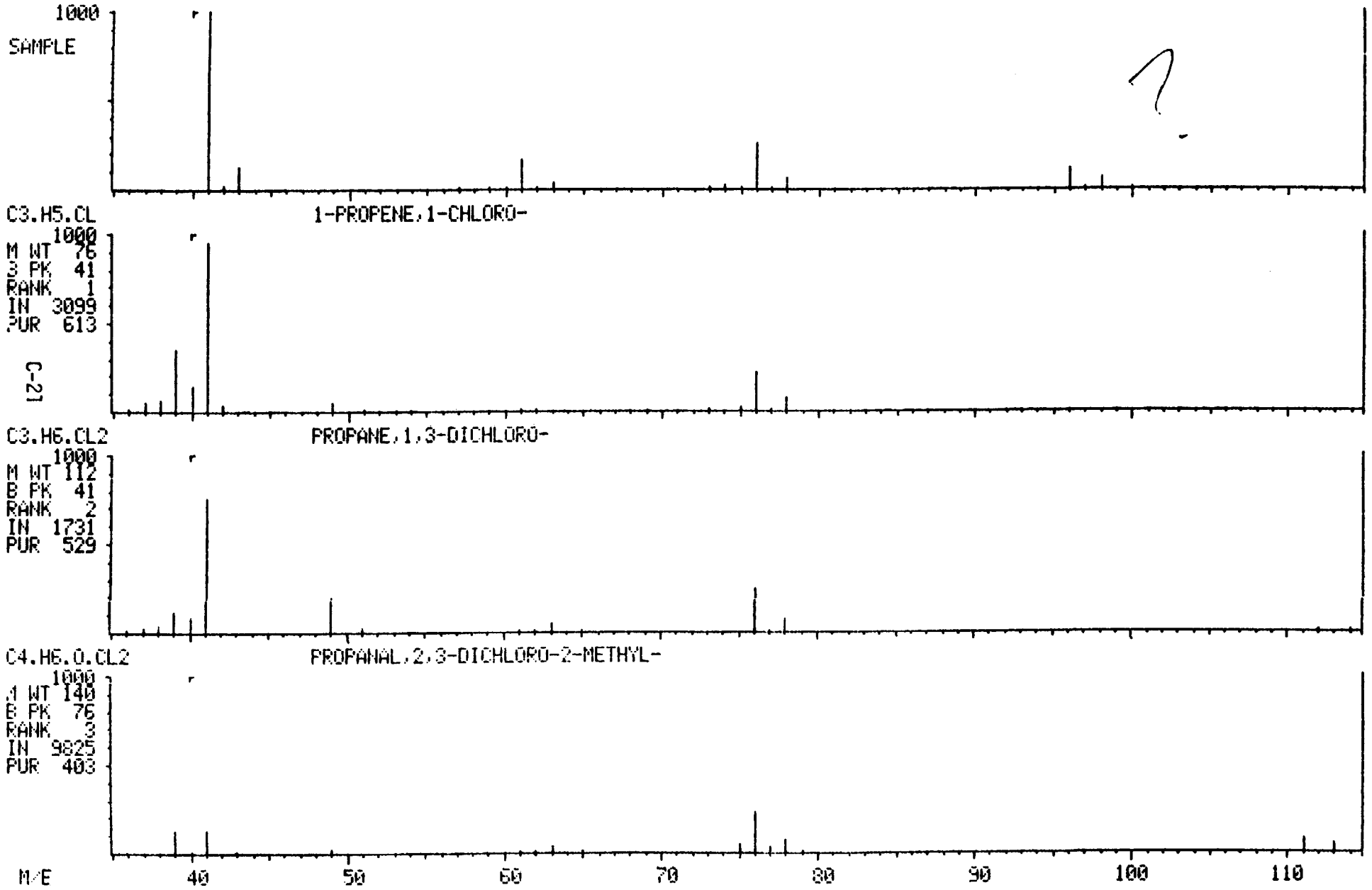
BASE M/E: 41
RIC: 320511.



LIBRARY SEARCH
07/31/85 15:06:00 + 6:02
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 181
CALI: E0284 # 6

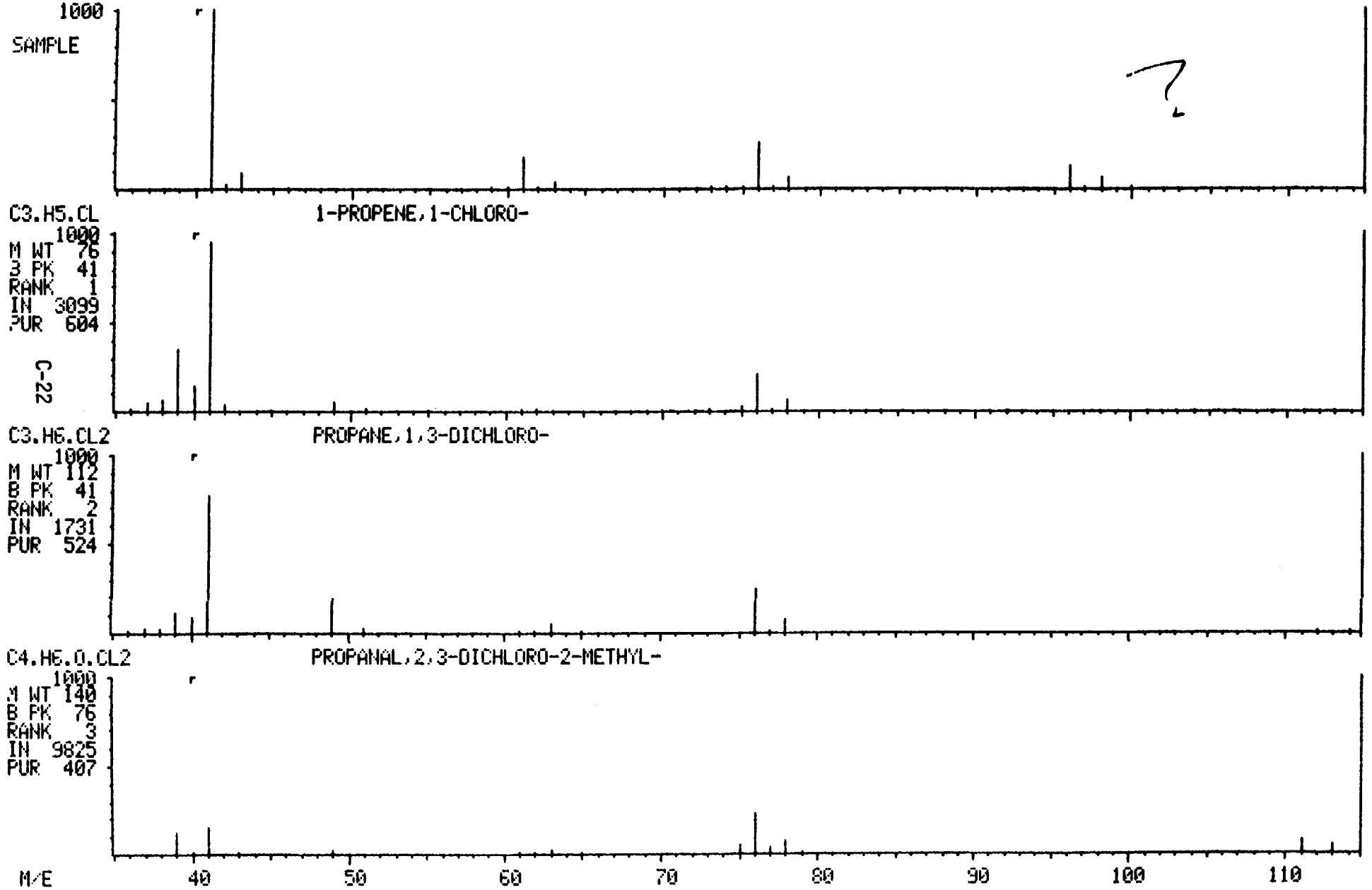
BASE M/E: 41
RIC: 59495.



LIBRARY SEARCH
07/31/85 15:06:00 + 6:04
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 182
CALI: E0284 # 6

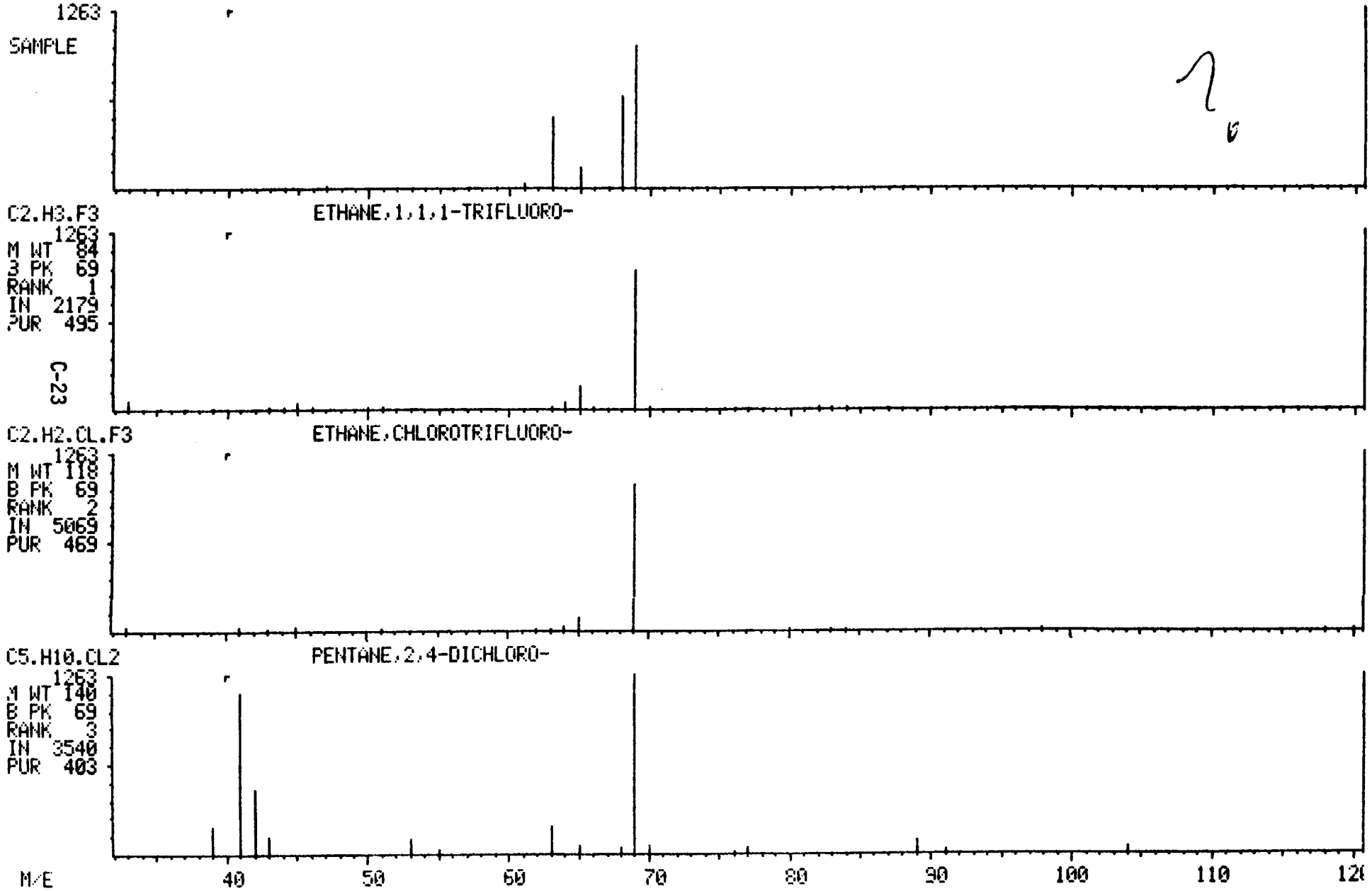
BASE M/E: 41
RIC: 59839.



LIBRARY SEARCH
07/31/85 15:06:00 + 7:02
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 211
CALI: EQ284 # 6

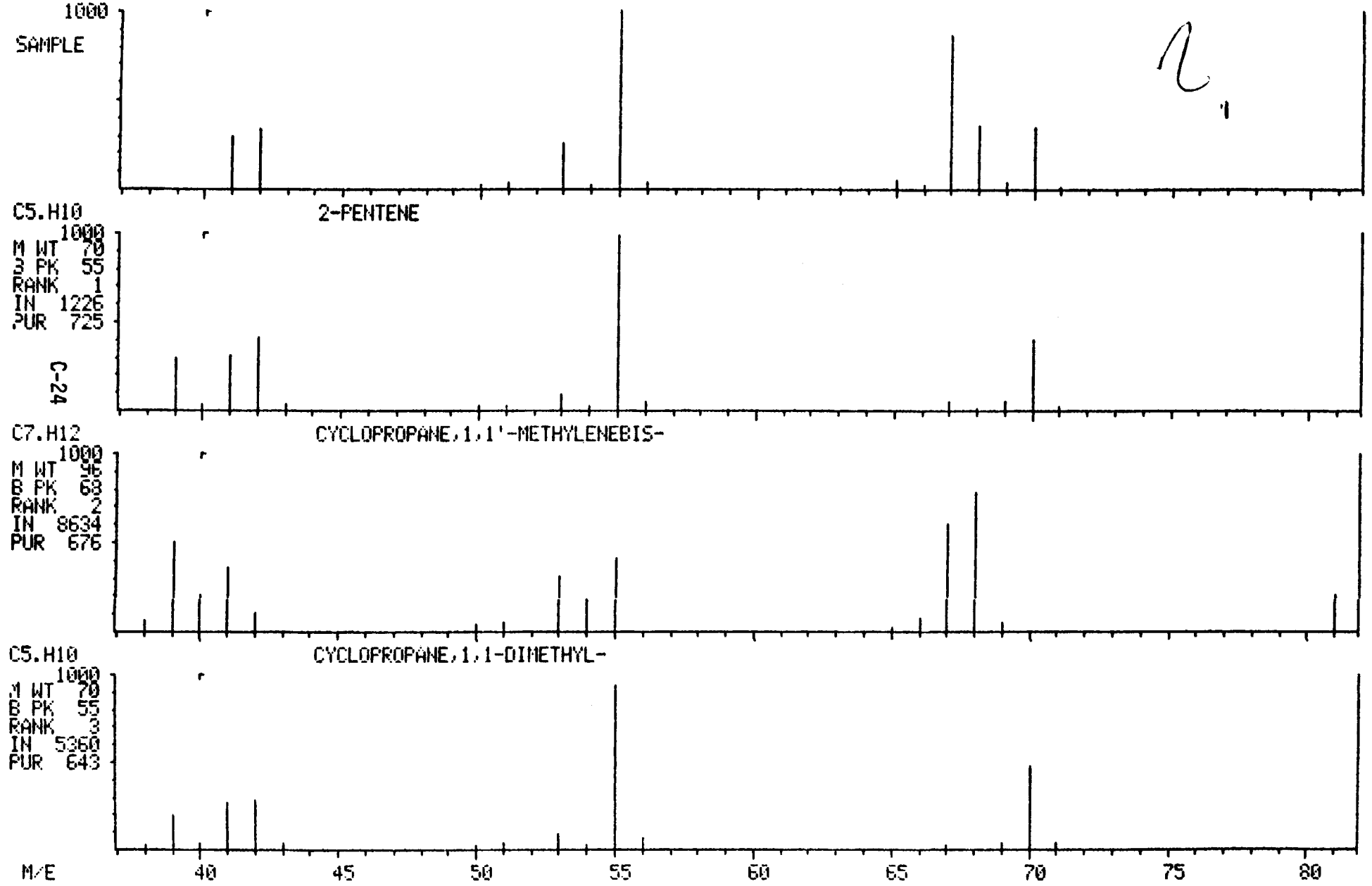
BASE M/E: 69
RIC: 2223.



LIBRARY SEARCH
07/31/85 15:06:00 + 7:26
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 223
CALI: E0284 # 6

BASE M/E: 55
RIC: 566271.

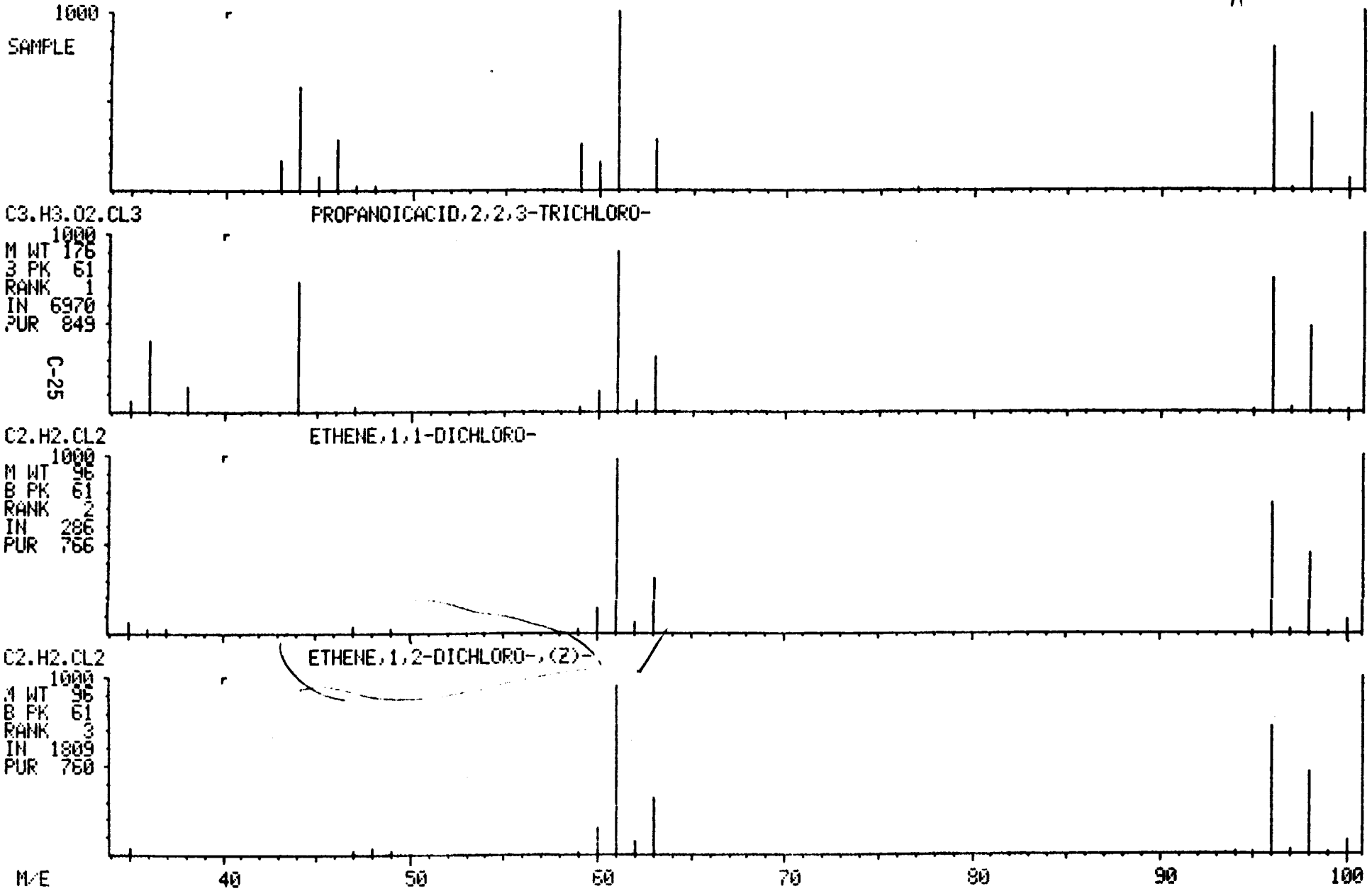


LIBRARY SEARCH
07/31/85 15:06:00 + 7:33
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 229
CALI: EQ284 # 6

BASE M/E: 61
RIC: 15103.

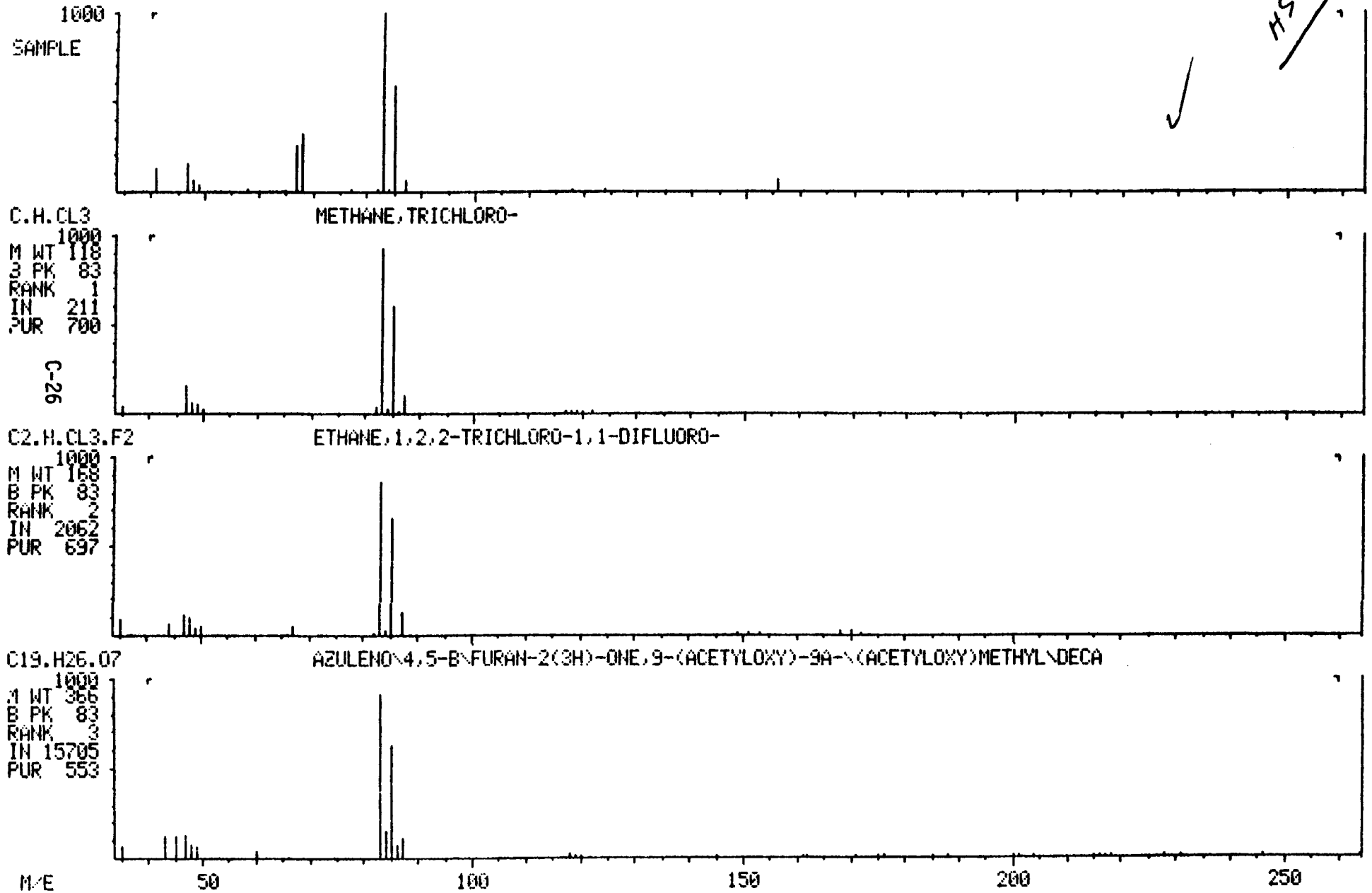
HSL



LIBRARY SEARCH
07/31/85 15:06:00 + 7:56
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 238
CALI: EQ284 # 6

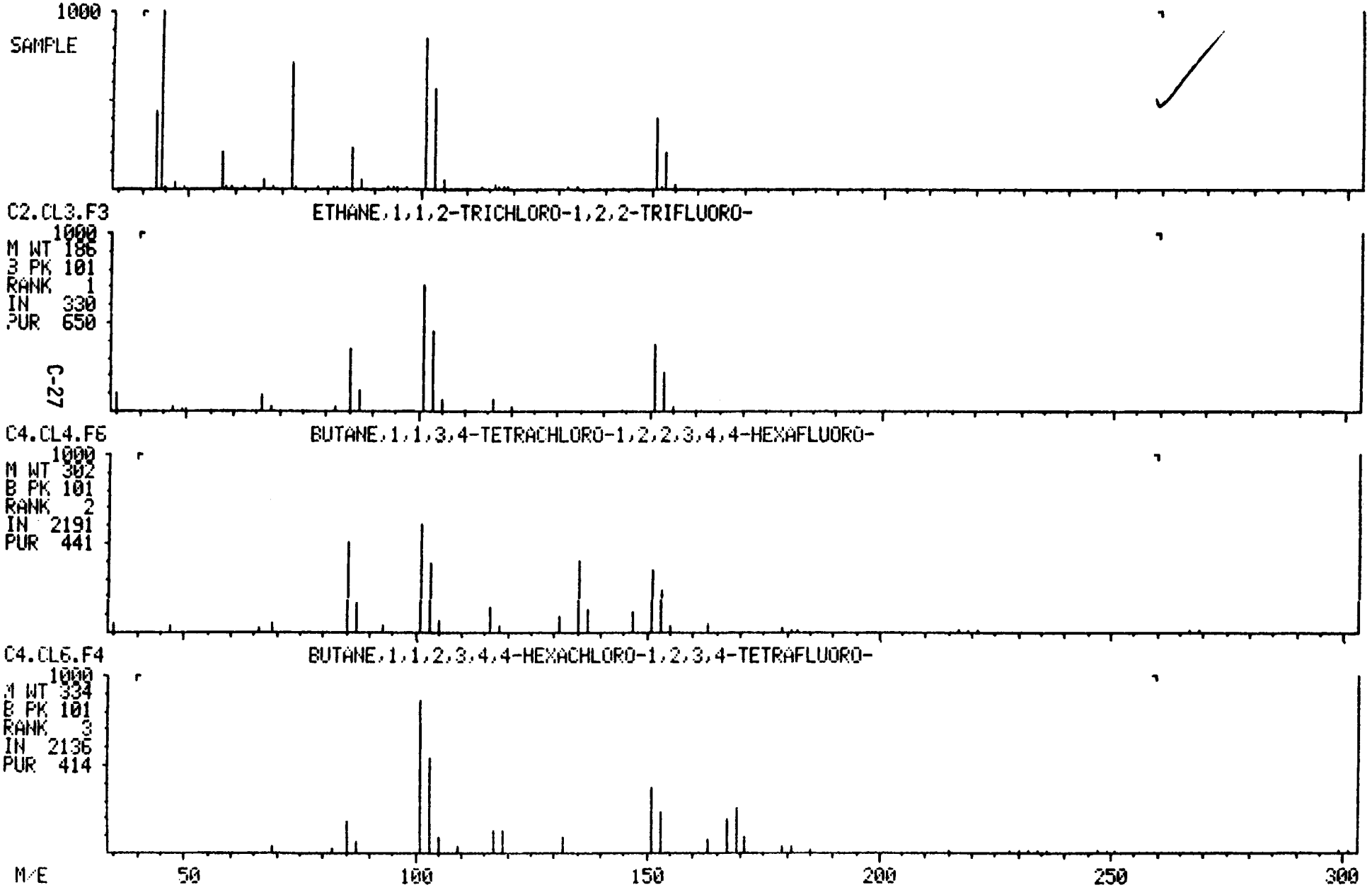
BASE M/E: 83
RIC: 13743.



LIBRARY SEARCH
07/31/85 15:08:00 + 8:26
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 253
CALI: E0284 # 6

BASE M/E: 44
RIC: 177151.

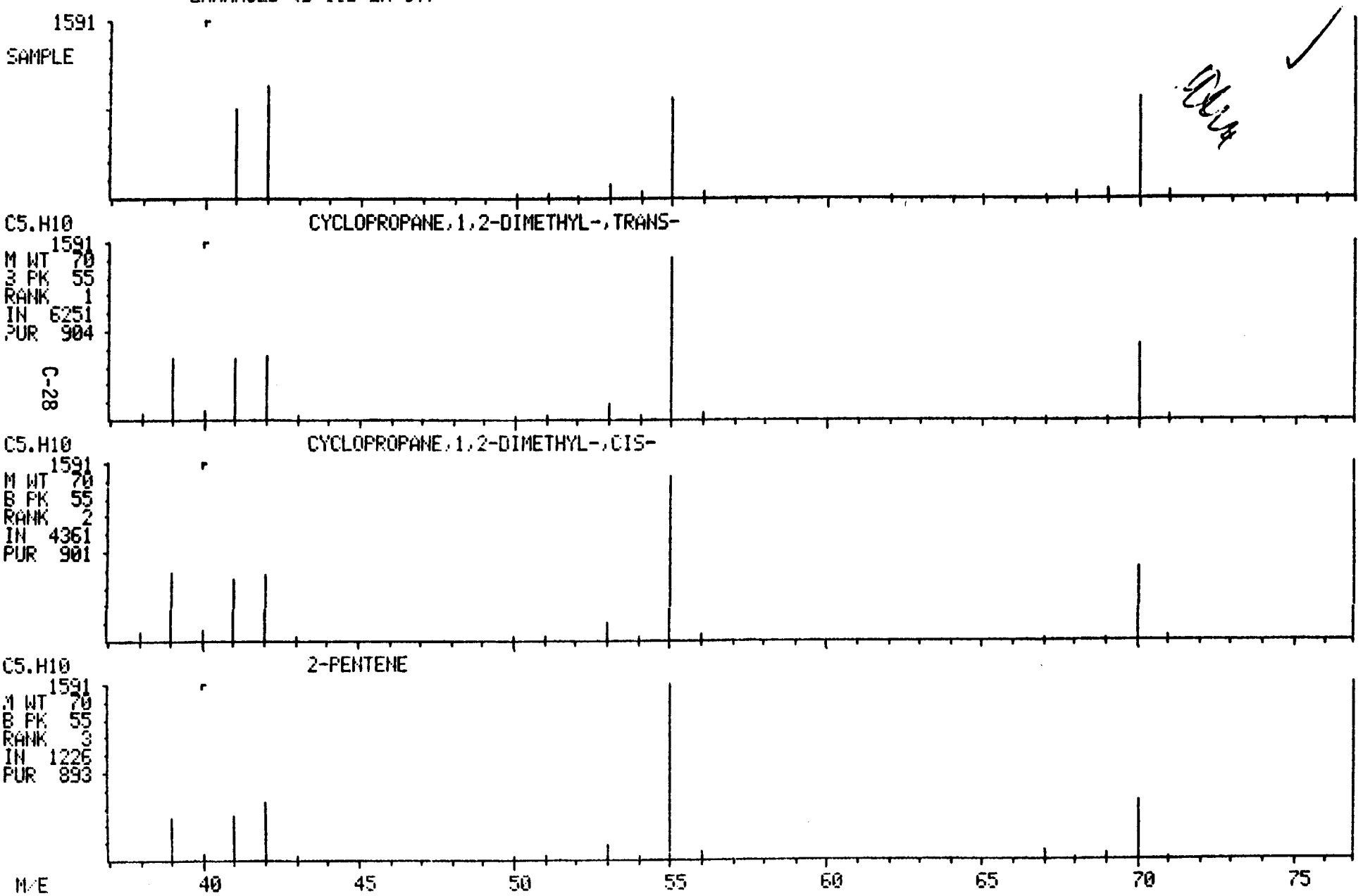


C-27

LIBRARY SEARCH
07/31/85 15:06:00 + 8:40
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 260
CALI: EQ284 # 6

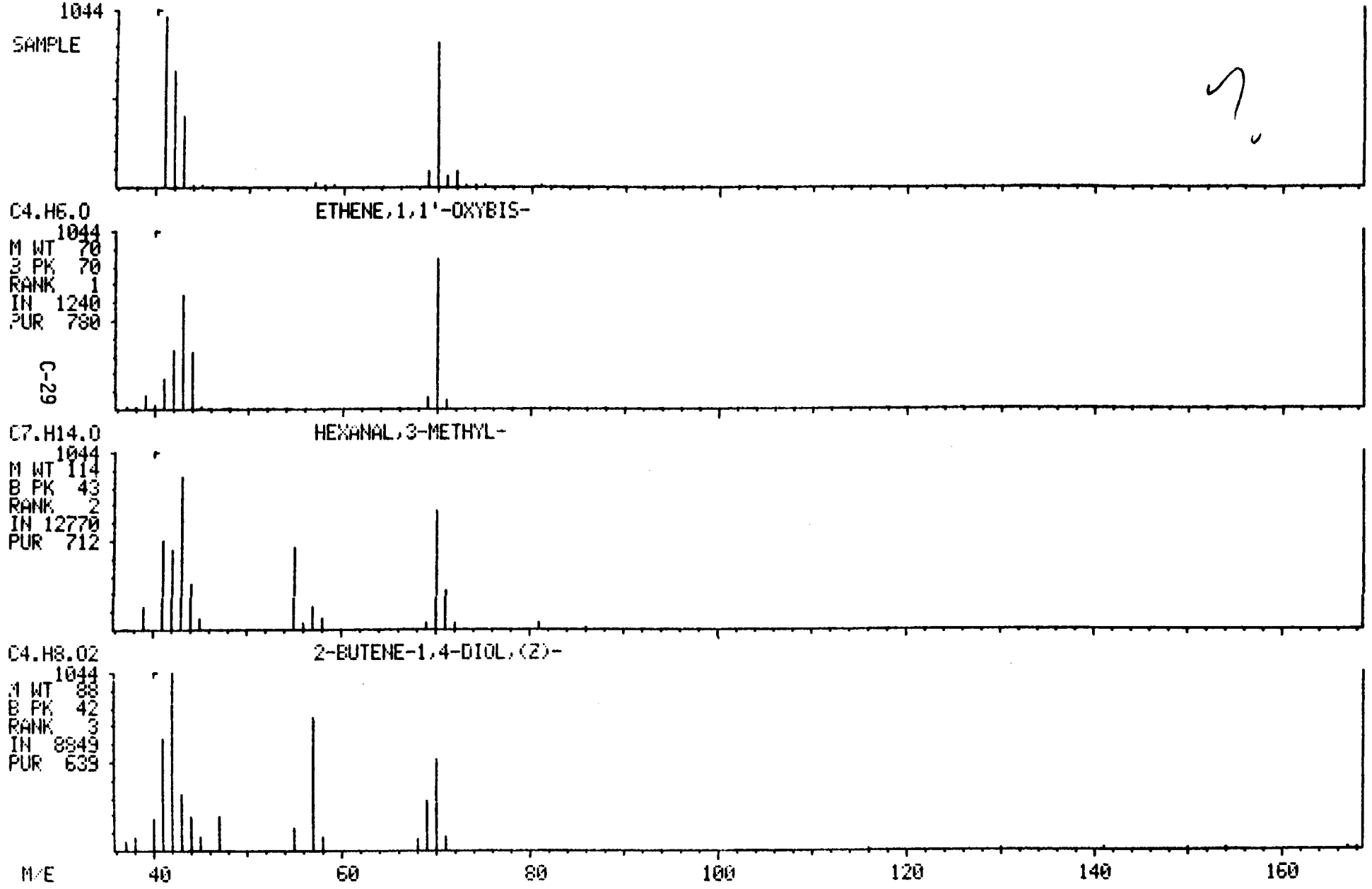
BASE M/E: 42
RIC: 2310140.



LIBRARY SEARCH
07/31/85 15:06:00 + 8:46
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 263
CALI: E0284 # 6

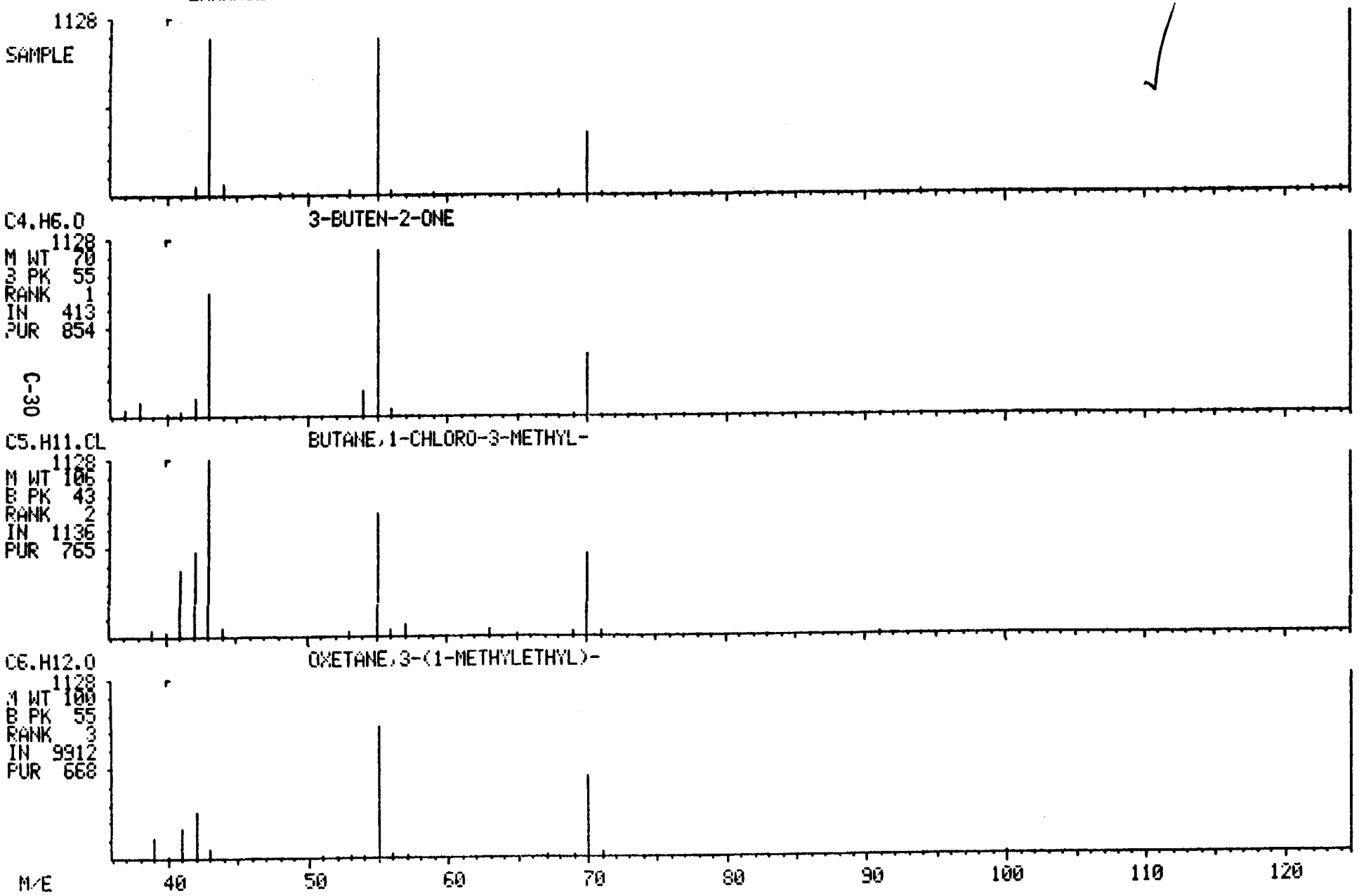
BASE M/E: 41
RIC: 1329150.



LIBRARY SEARCH
07/31/85 15:06:00 + 9:02
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 271
CALI: EQ284 # 6

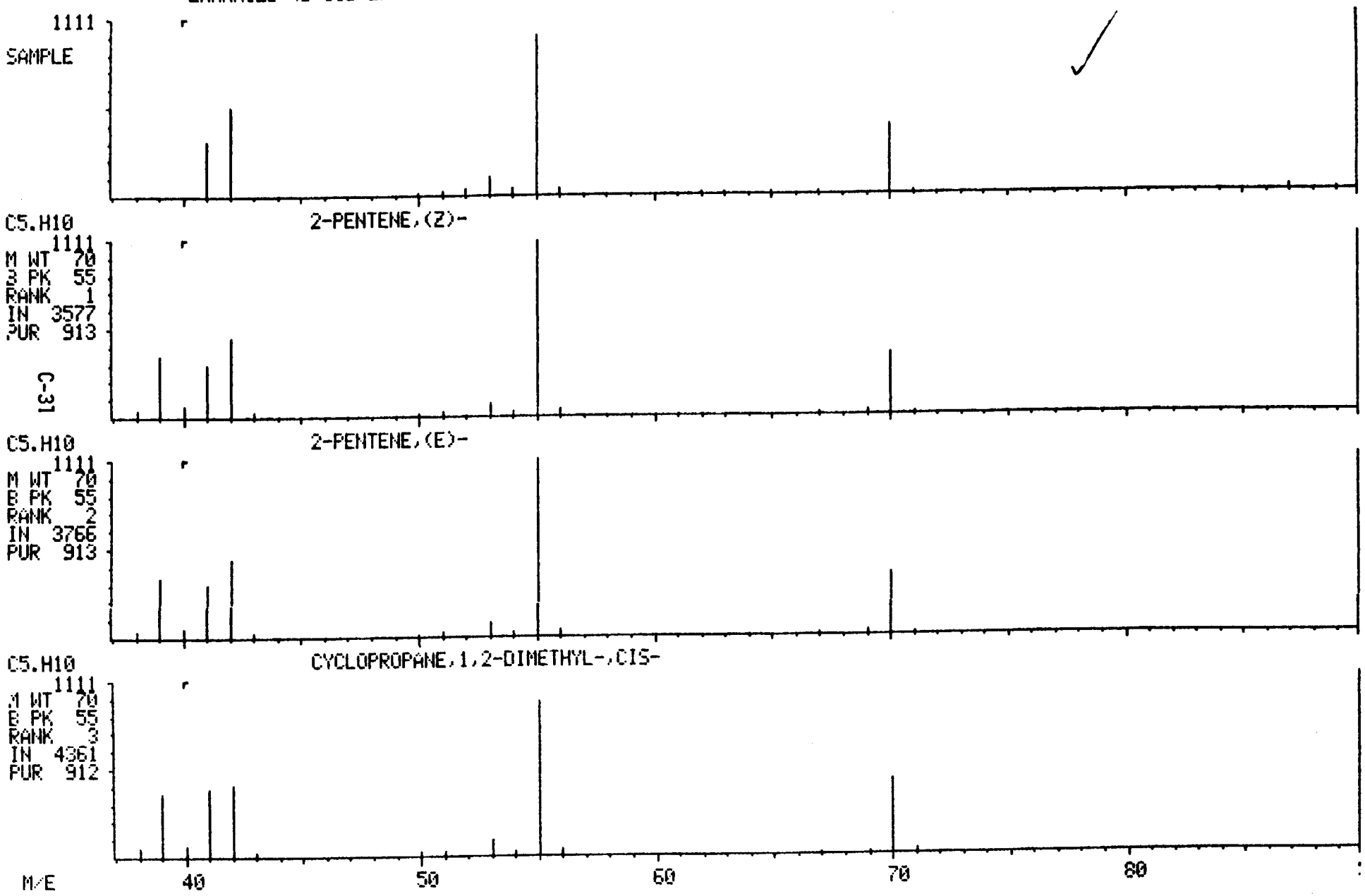
BASE M/E: 55
RIC: 327679.



LIBRARY SEARCH
07/31/85 15:06:00 + 3:16
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 278
CALI: EQ284 # 6

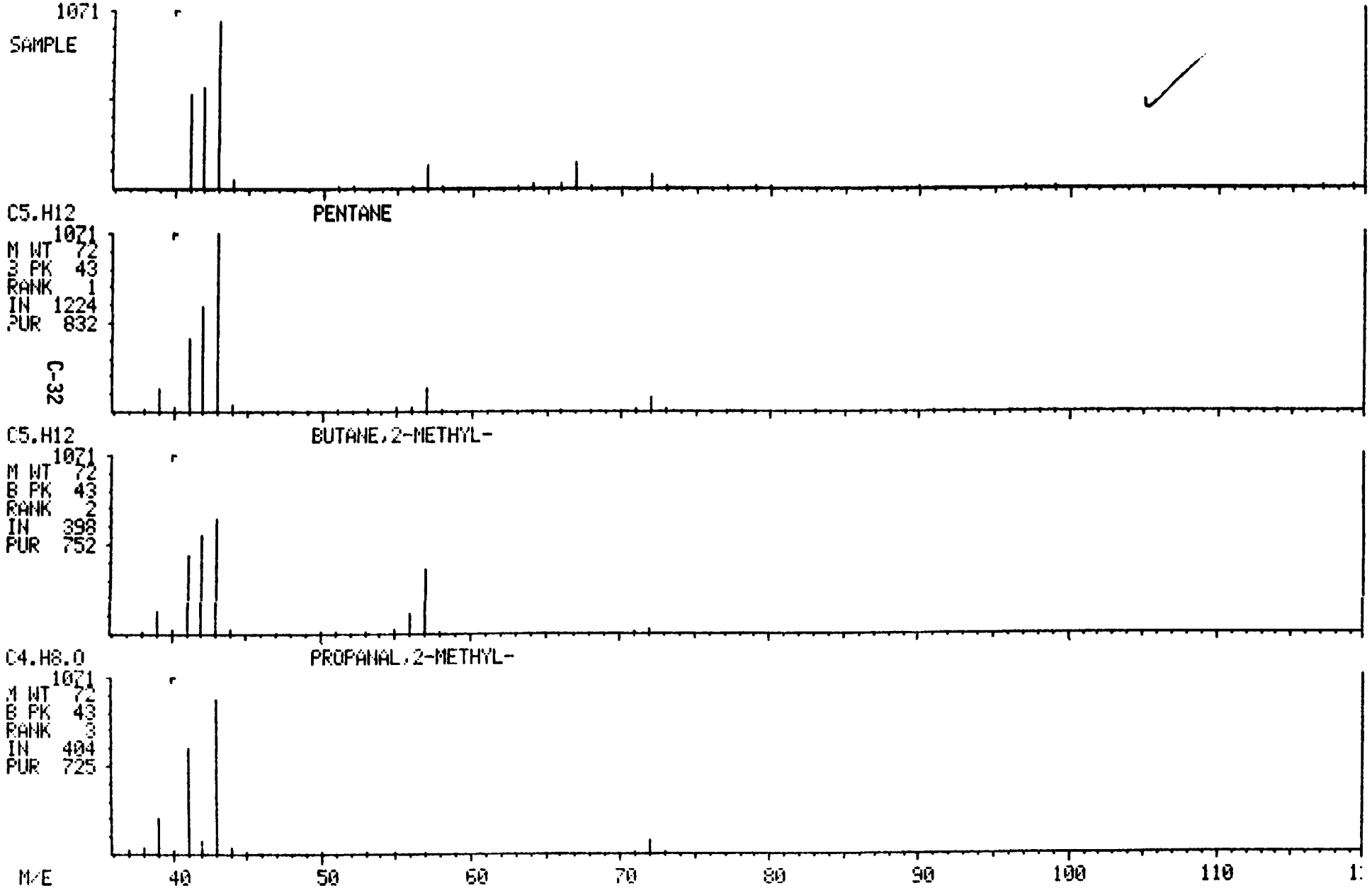
BASE M/E: 55
RIC: 272383.



LIBRARY SEARCH
07/31/85 15:06:00 + 9:34
SAMPLE: R8472 UI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 156 2N 0T)

DATA: E0284 # 287
CALI: E0284 # 6

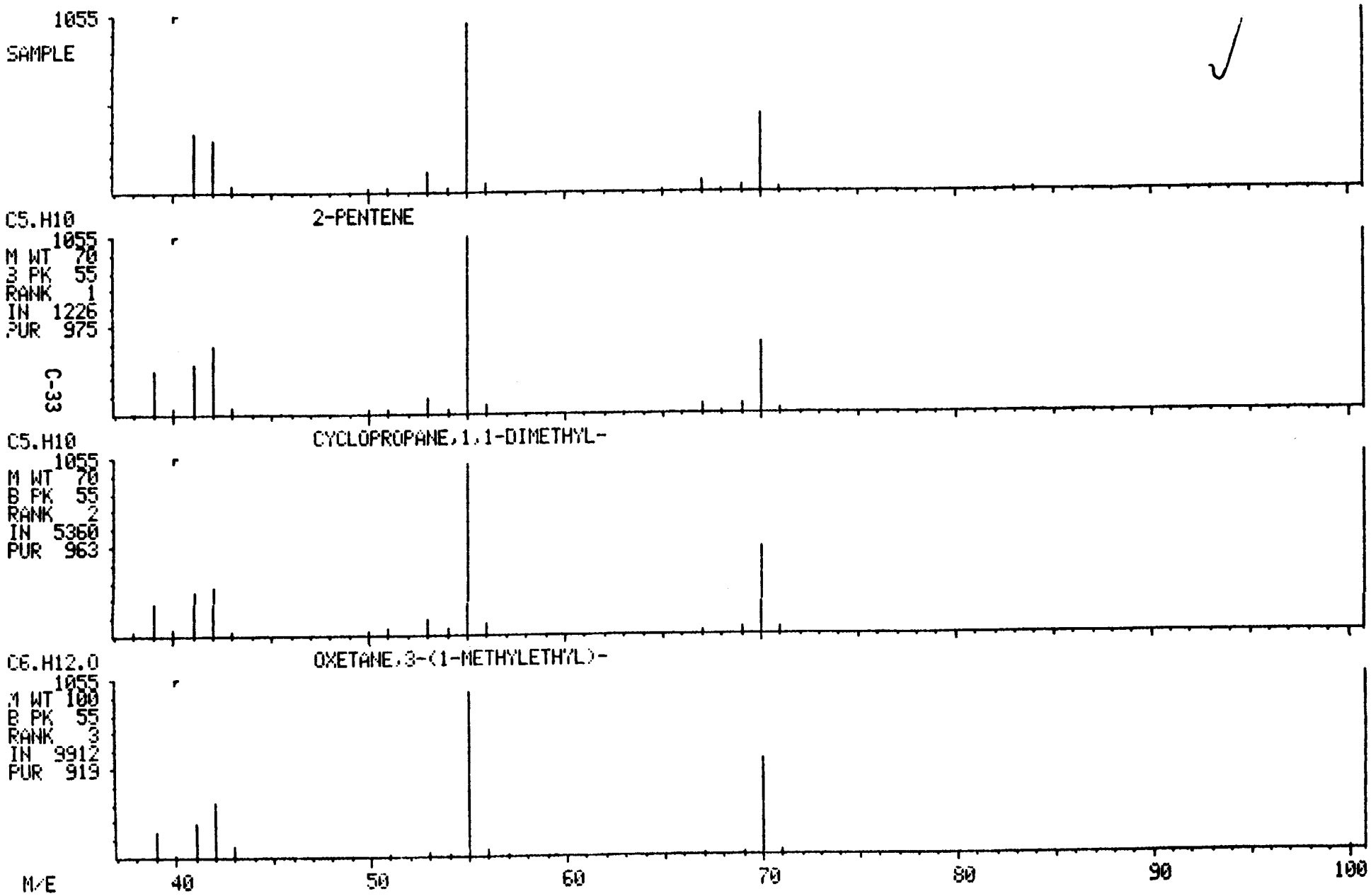
BASE M/E: 43
RIC: 222975.



LIBRARY SEARCH
07/31/85 15:06:00 + 9:54
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 297
CALI: E0284 # 6

BASE M/E: 55
RIC: 688127.

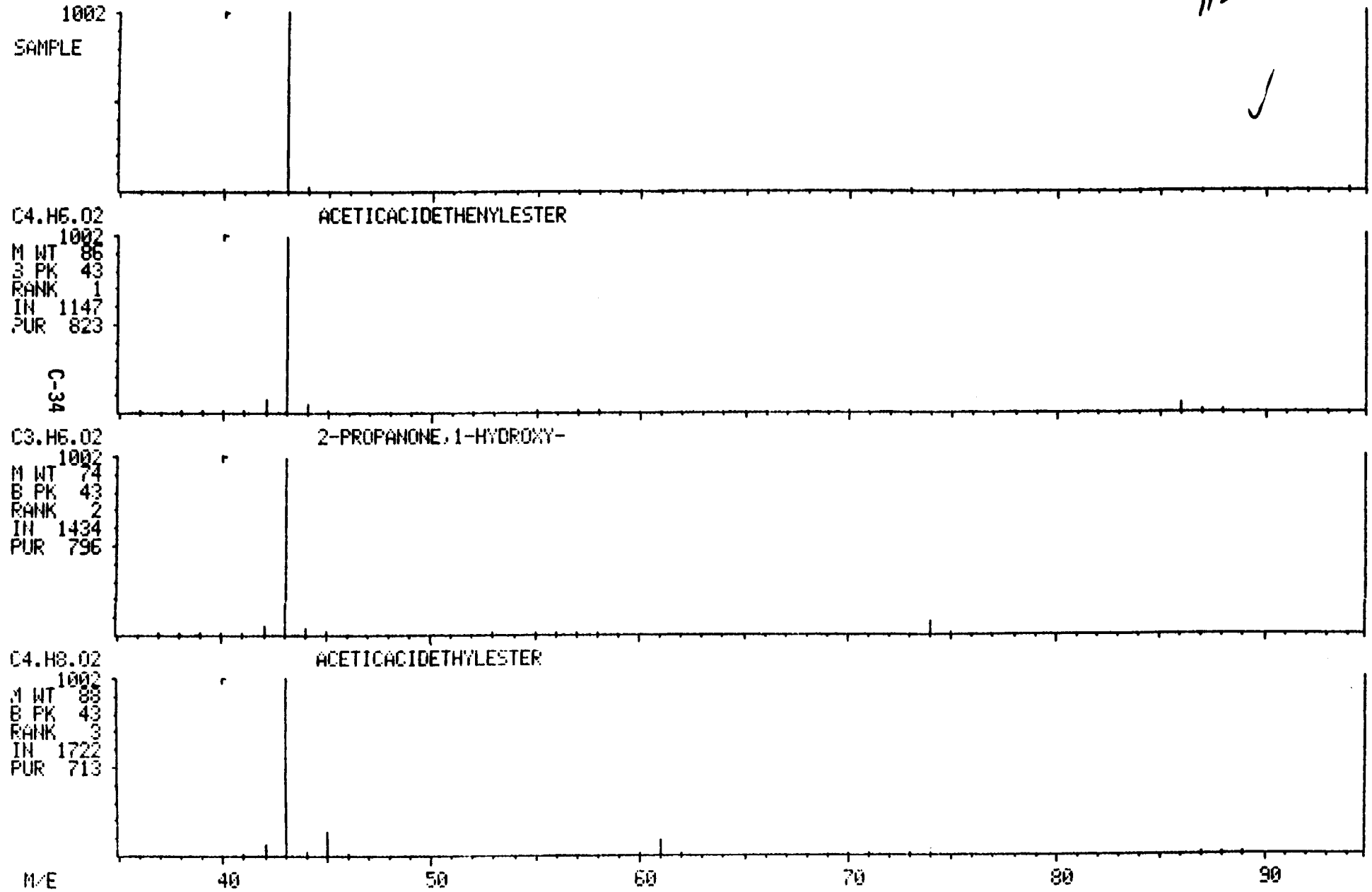


LIBRARY SEARCH
07/31/85 15:05:00 + 10:12
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 306
CALI: EQ284 # 6

BASE M/E: 43
RIC: 38527.

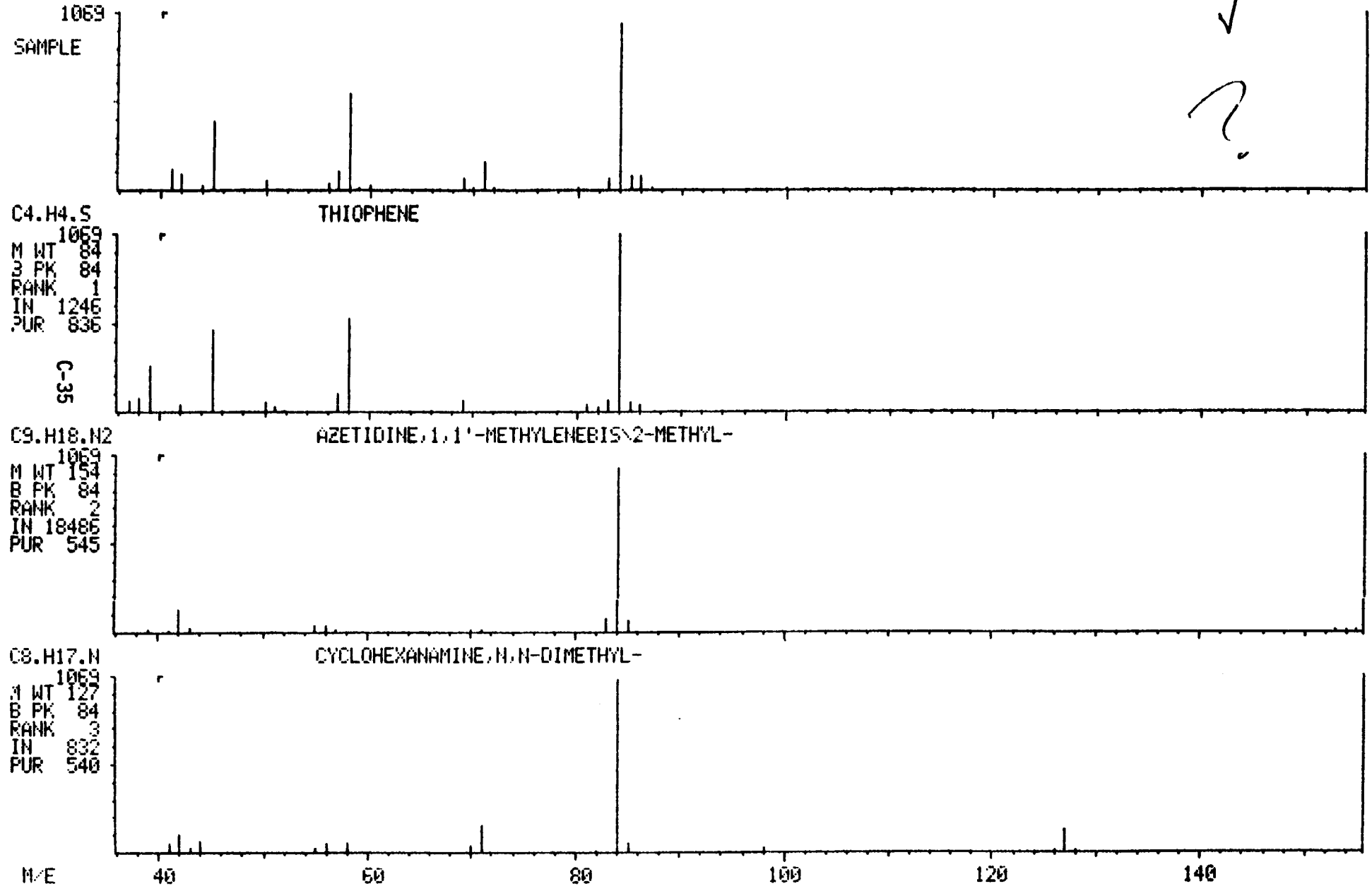
HSV



LIBRARY SEARCH
07/31/85 15:06:00 + 10:20
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 310
CALI: EQ284 # 6

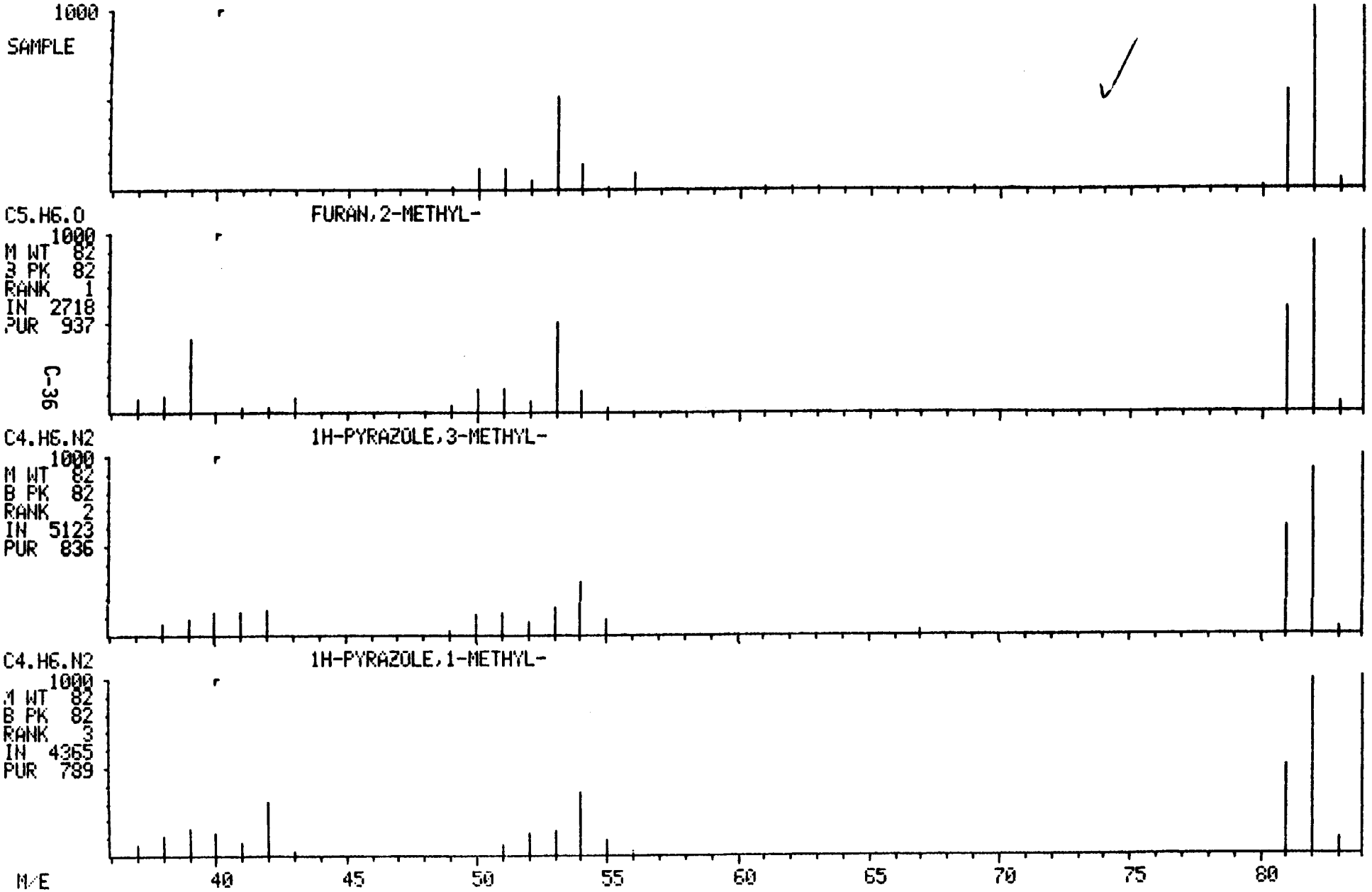
BASE M/E: 84
RIC: 1012730.



LIBRARY SEARCH
07/31/85 15:06:00 + 10:32
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 316
CALI: EQ284 # 6

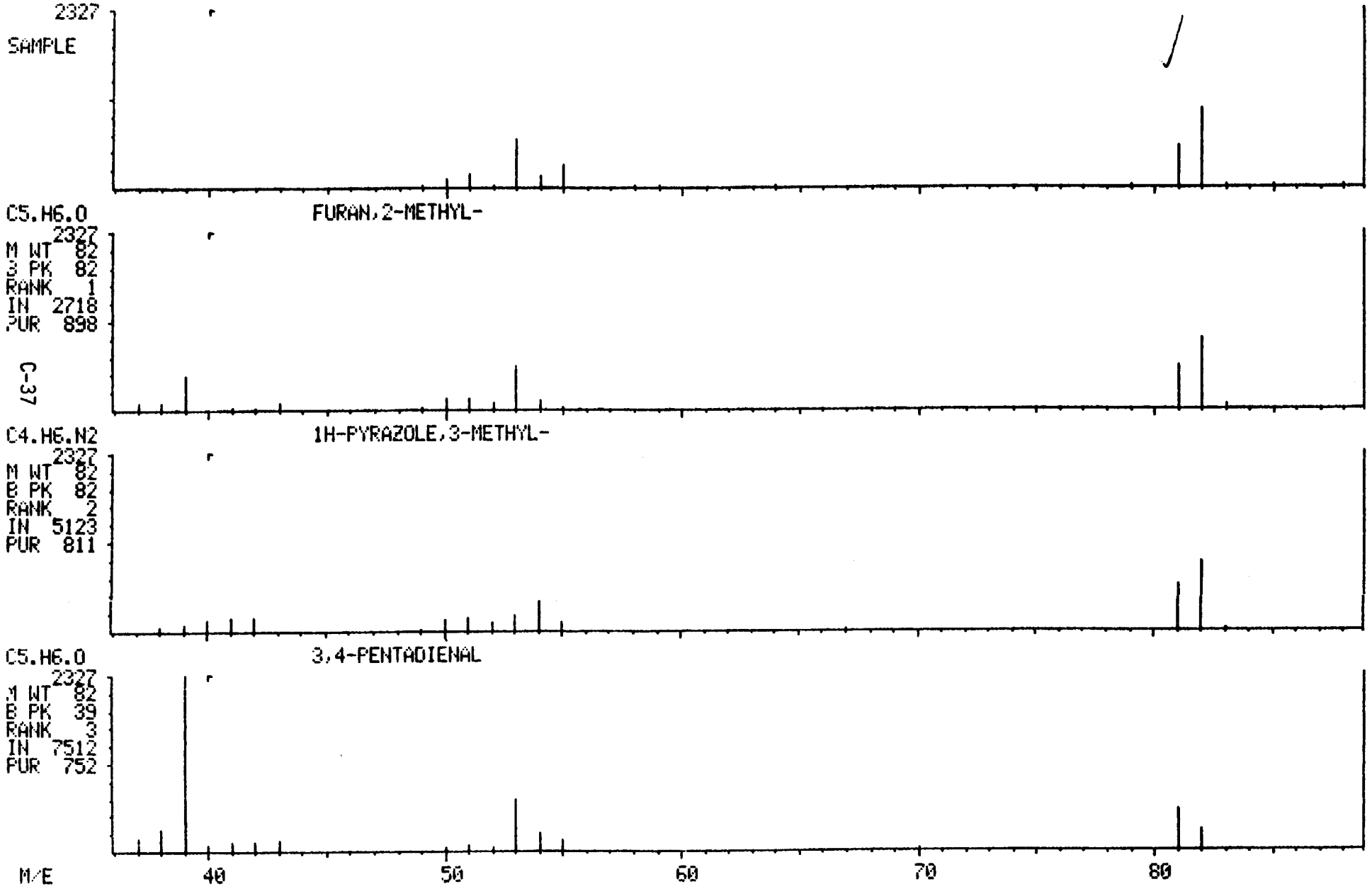
BASE M/E: 82
RIC: 372223.



LIBRARY SEARCH
07/31/85 15:06:00 + 10:42
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 321
CALI: E0284 # 6

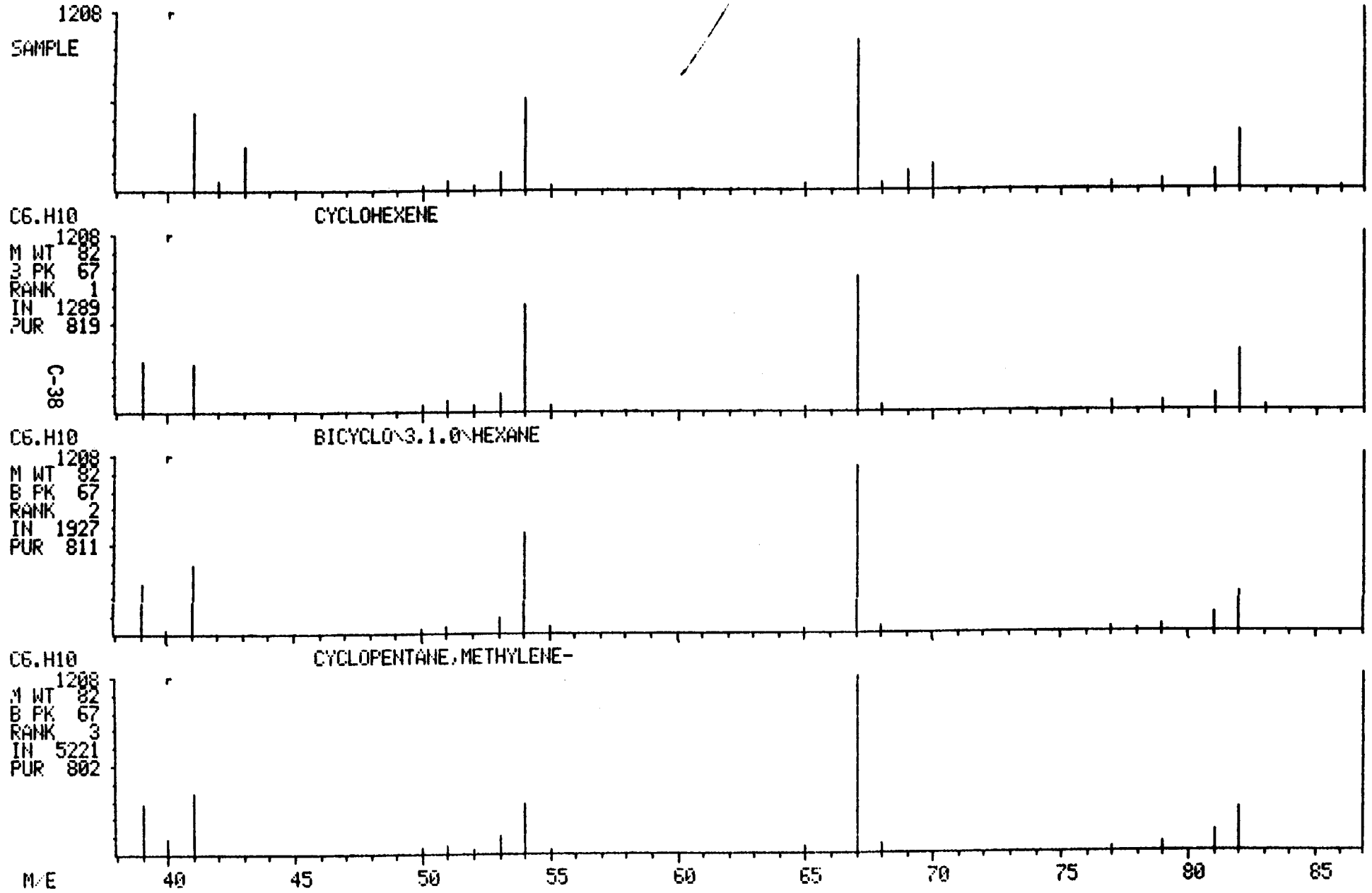
BASE M/E: 82
RIC: 253183.



LIBRARY SEARCH
07/31/85 15:06:00 + 11:02
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 331
CALI: E0284 # 6

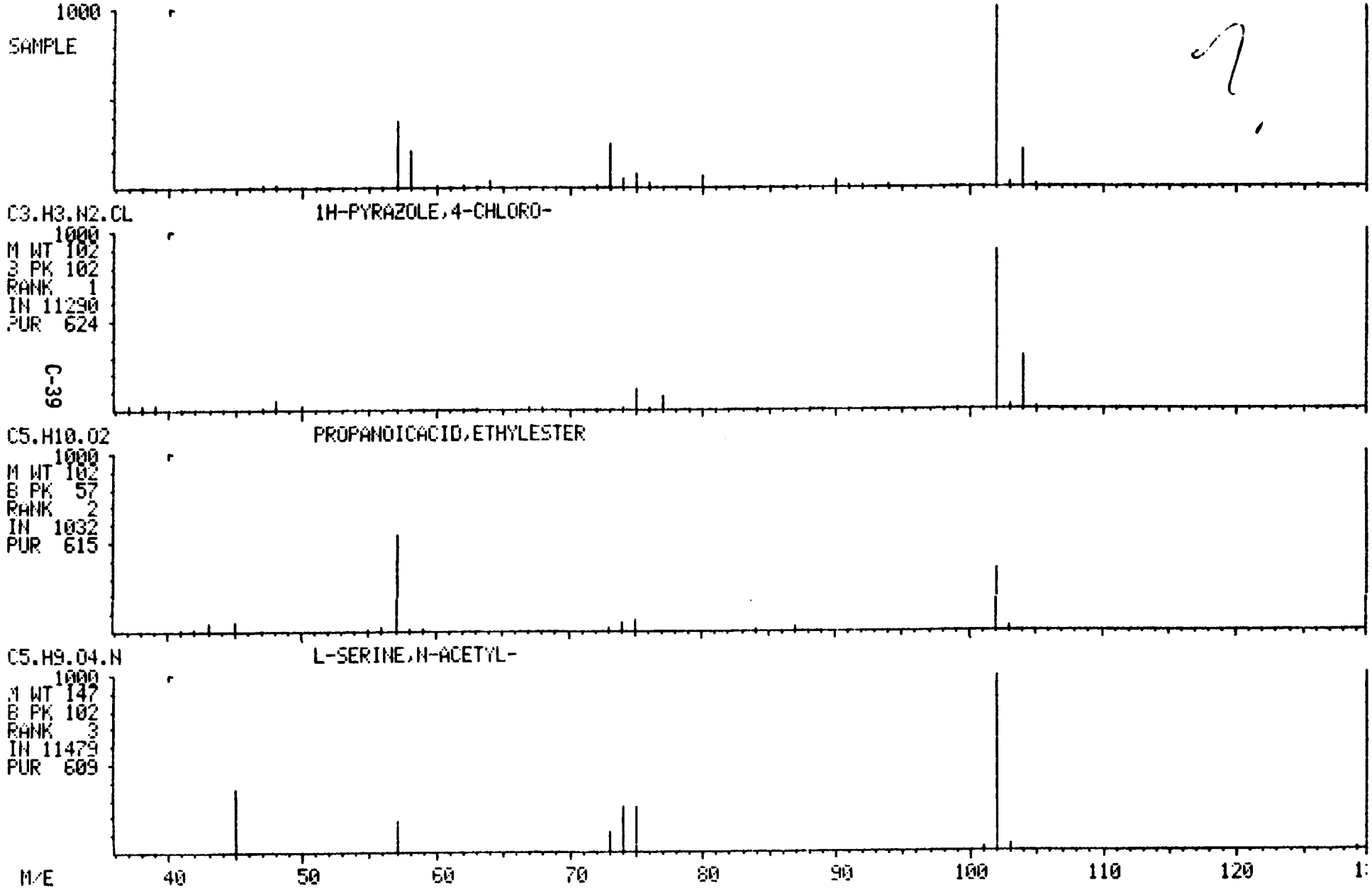
BASE M/E: 67
RIC: 548863.



LIBRARY SEARCH
07/31/85 15:06:00 + 11:14
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 337
CALI: E0284 # 6

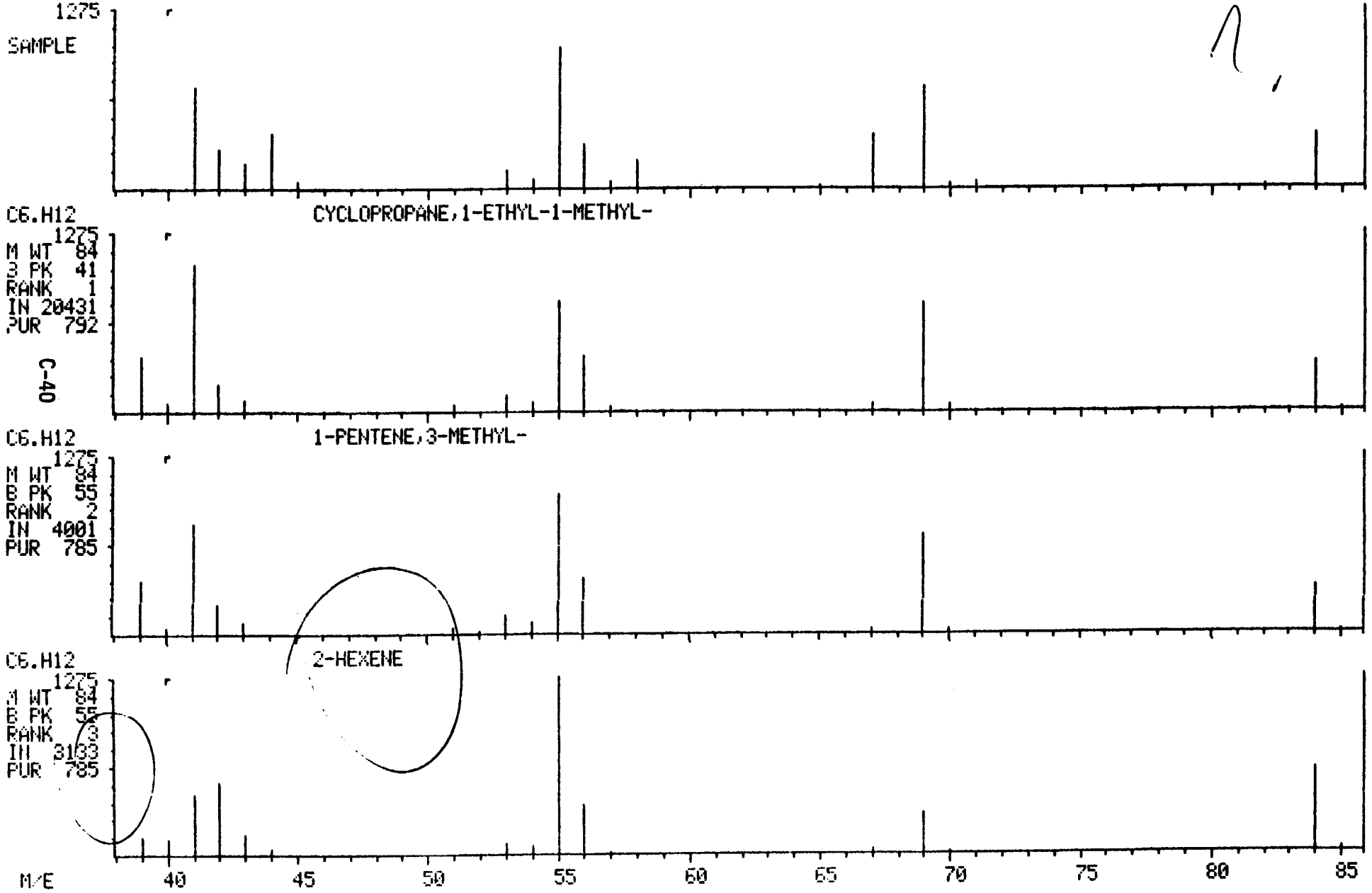
BASE M/E: 102
RIC: 46591.



LIBRARY SEARCH
07/31/85 15:06:00 + 11:24
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 342
CALI: EQ284 # 6

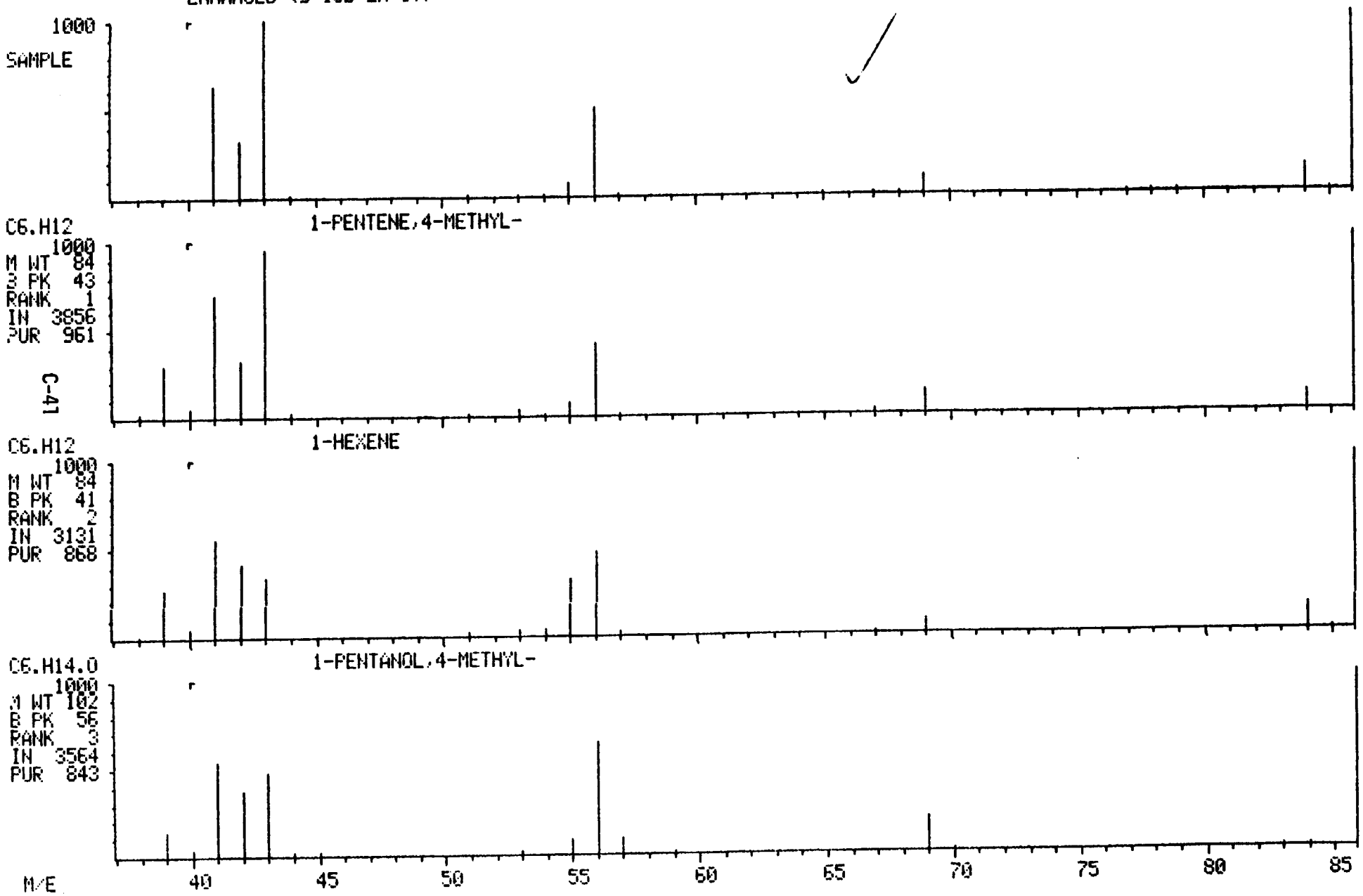
BASE M/E: 55
RIC: 259583.



LIBRARY SEARCH
07/31/85 15:06:00 + 11:36
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 348
CALI: E0284 # 6

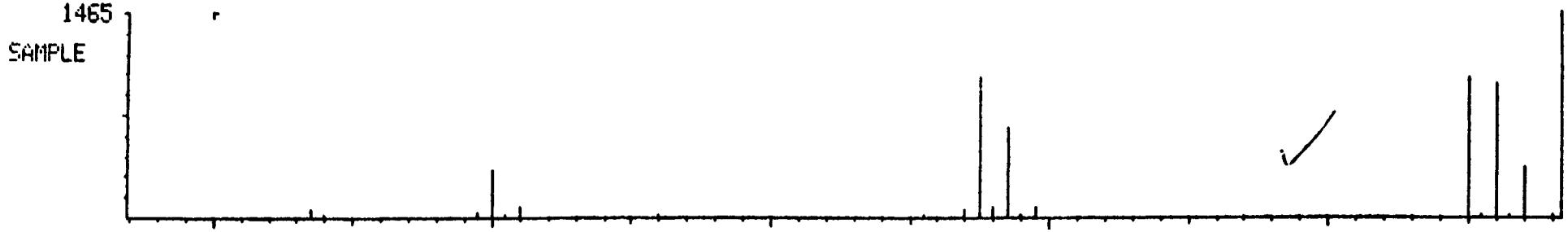
BASE M/E: 43
RIC: 493055.



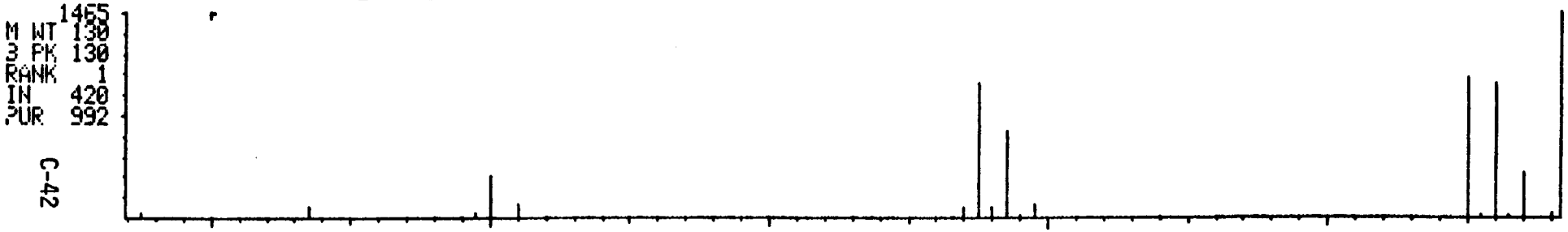
LIBRARY SEARCH
07/31/85 15:06:00 + 11:52
SAMPLE: R8472 VI-1 + SUL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 356
CALI: EQ284 # 6

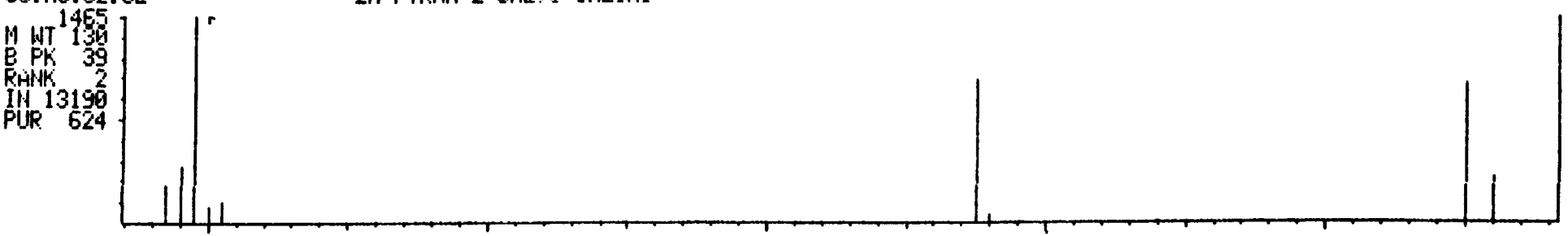
BASE M/E: 130
RIC: 284671.



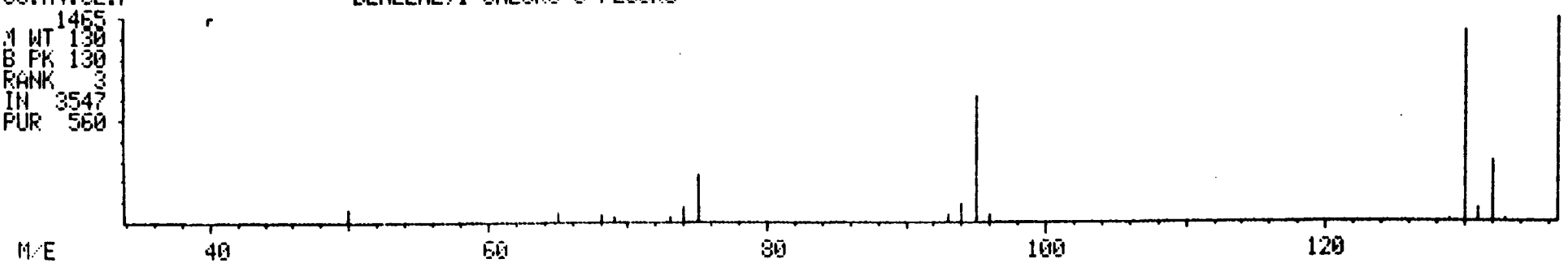
C2.H.CL3 ETHENE,TRICHLORO-



C5.H3.O2.CL 2H-PYRAN-2-ONE,6-CHLORO-



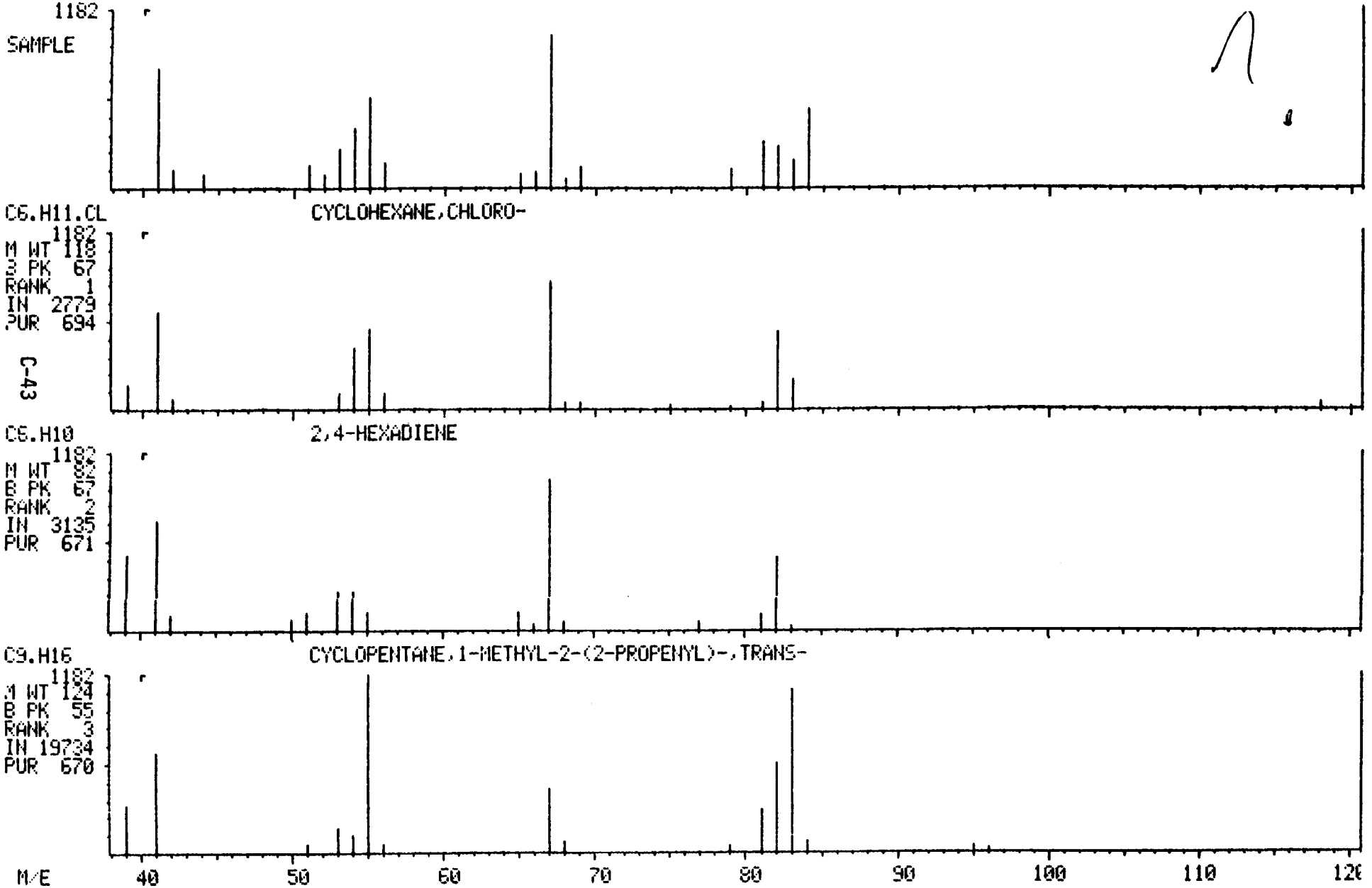
C6.H4.CL.F BENZENE,1-CHLORO-3-FLUORO-



LIBRARY SEARCH
07/31/85 15:06:00 + 11:58
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 359
CALI: E0284 # 6

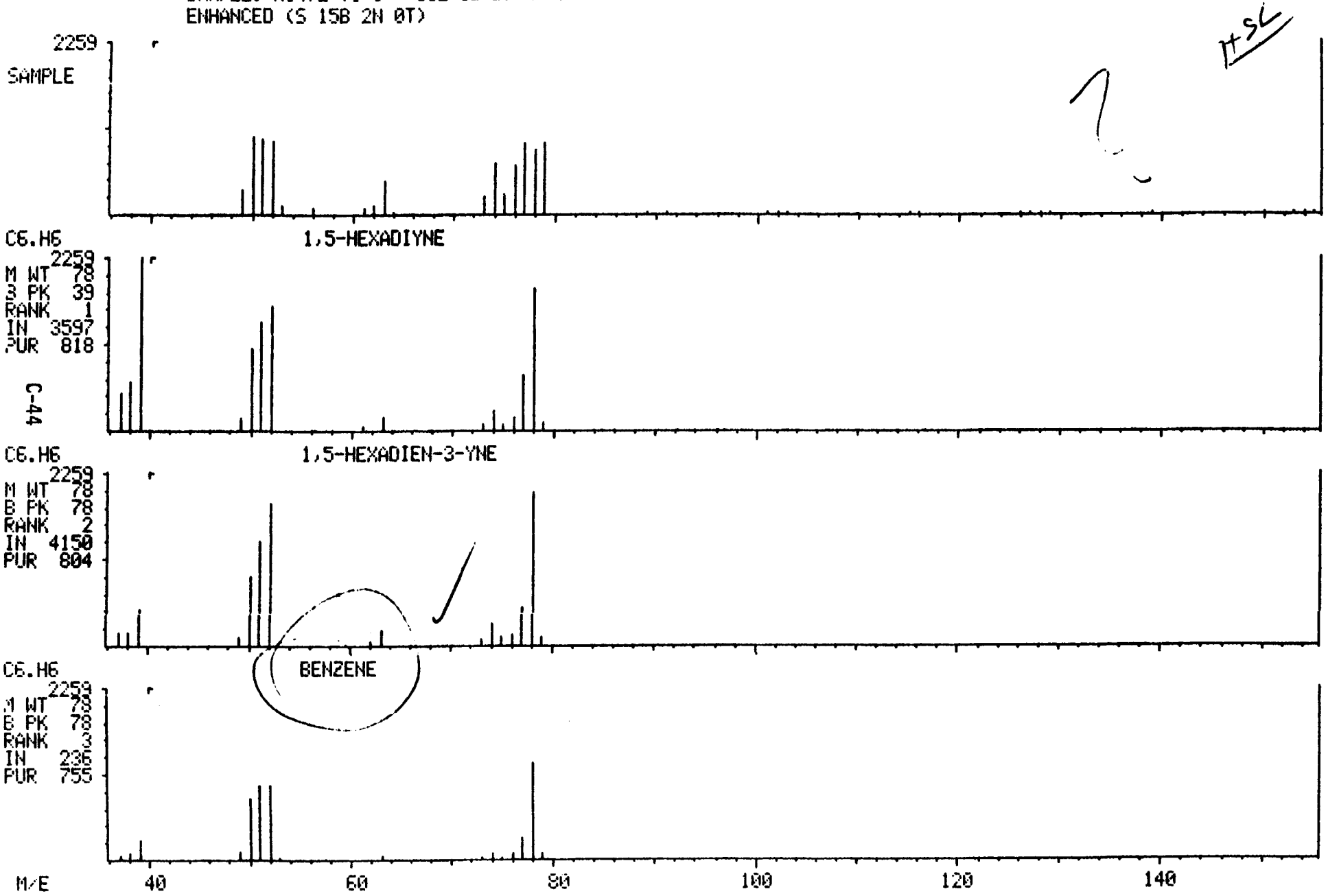
BASE M/E: 67
RIC: 1016830.



LIBRARY SEARCH
07/31/85 15:06:00 + 12:12
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 366
CALI: EQ284 # 6

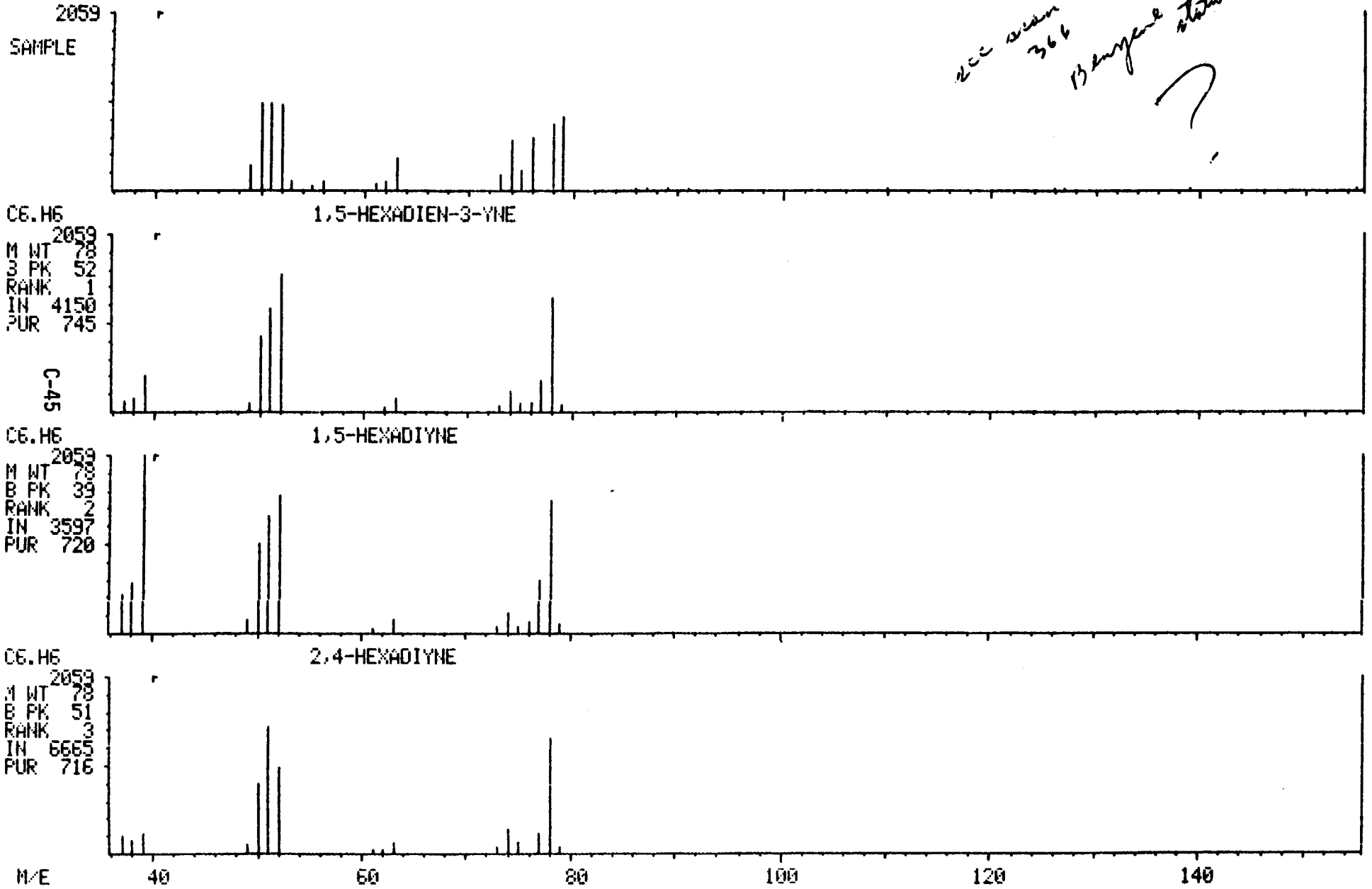
BASE M/E: 50
RIC: 4165630.



LIBRARY SEARCH
07/31/85 15:06:00 + 12:16
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 368
CALI: EQ284 # 6

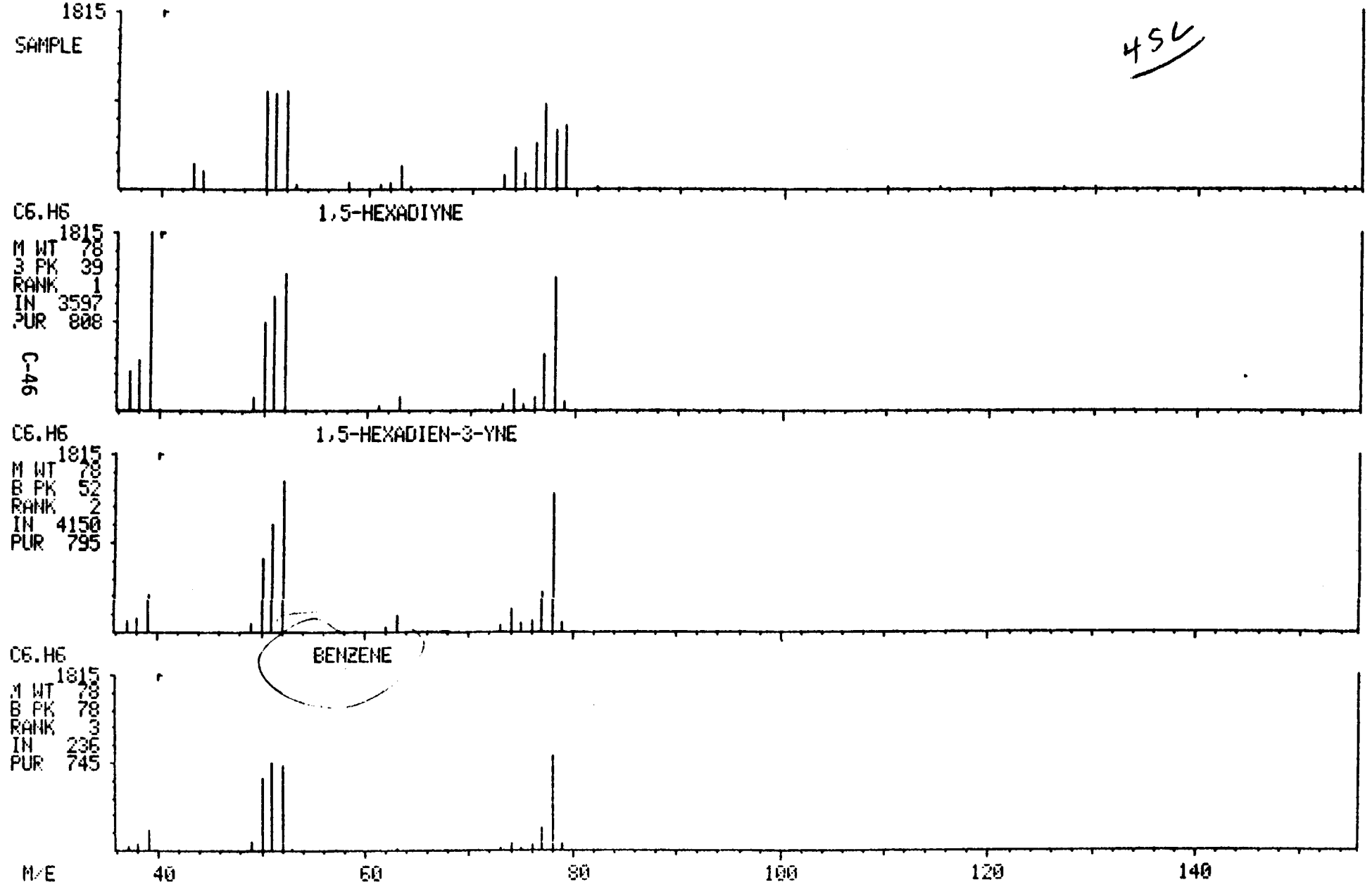
BASE M/E: 51
RIC: 3825660.



LIBRARY SEARCH
07/31/85 15:06:00 + 12:22
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 371
CALI: E0284 # 6

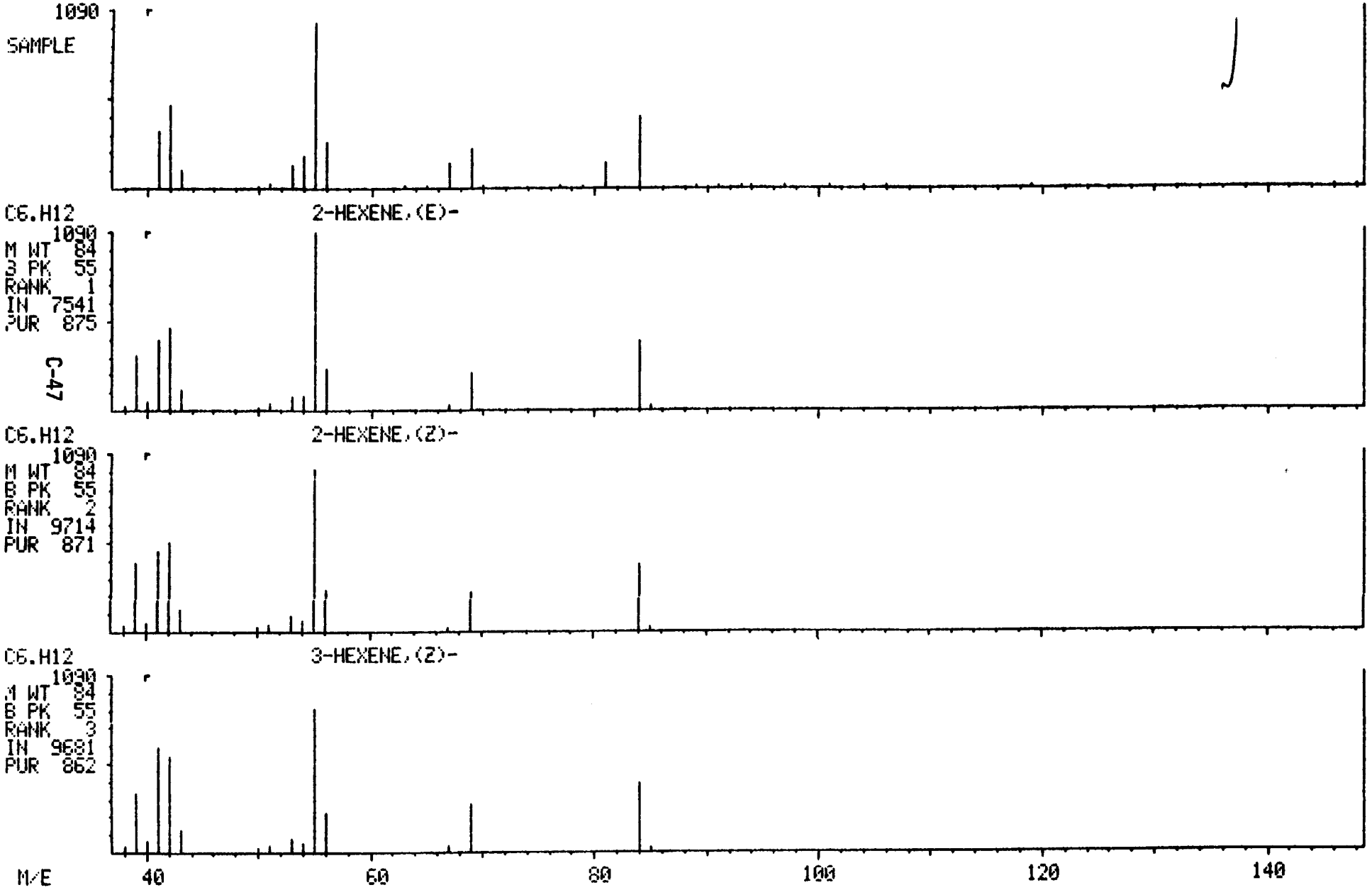
BASE M/E: 52
RIC: 2764790.



LIBRARY SEARCH
07/31/85 15:06:00 + 13:04
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 392
CALI: EQ284 # 6

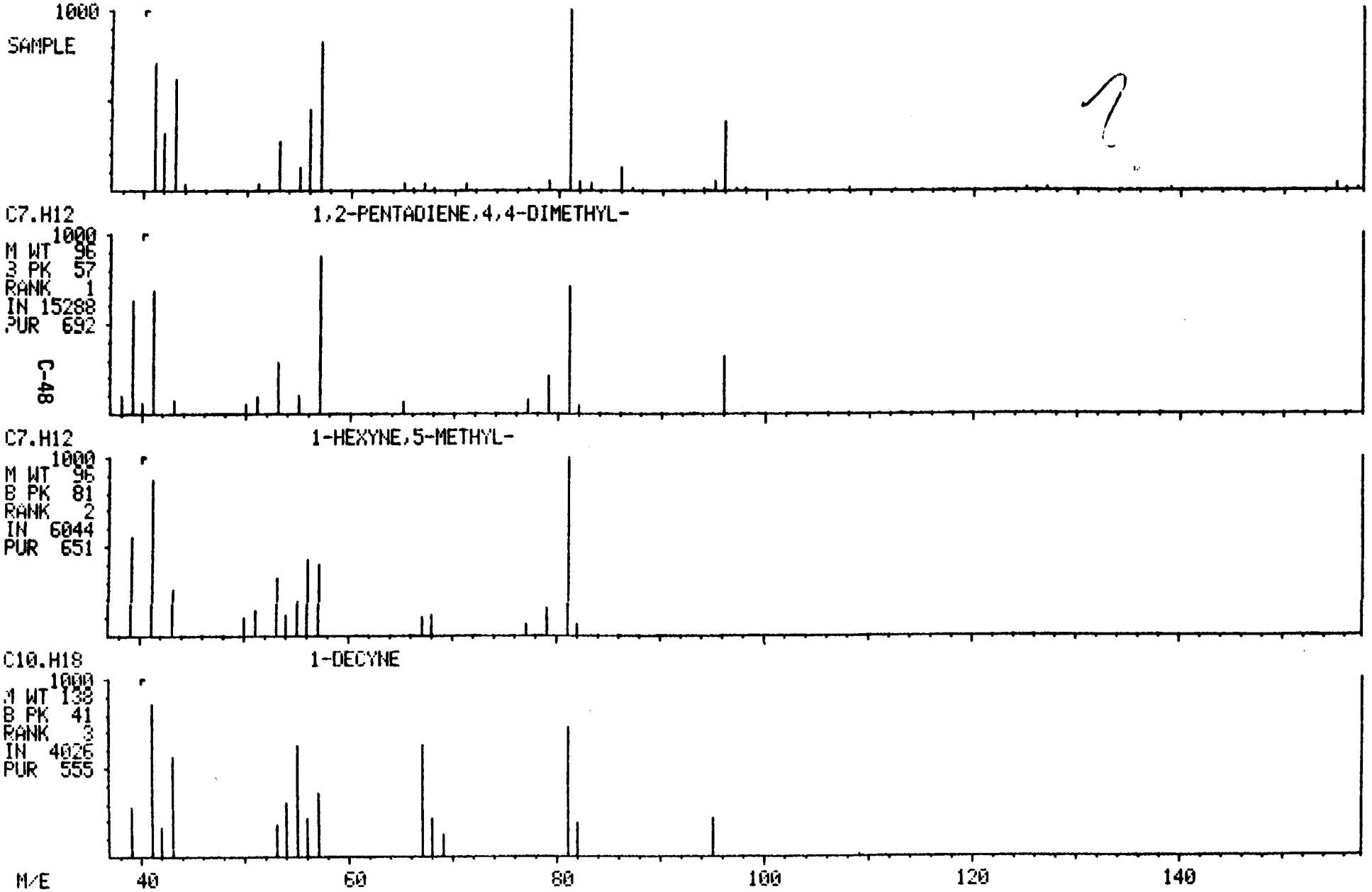
BASE M/E: 55
RIC: 468991.



LIBRARY SEARCH
07/31/85 15:06:00 + 13:26
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 403
CALI: EQ284 # 6

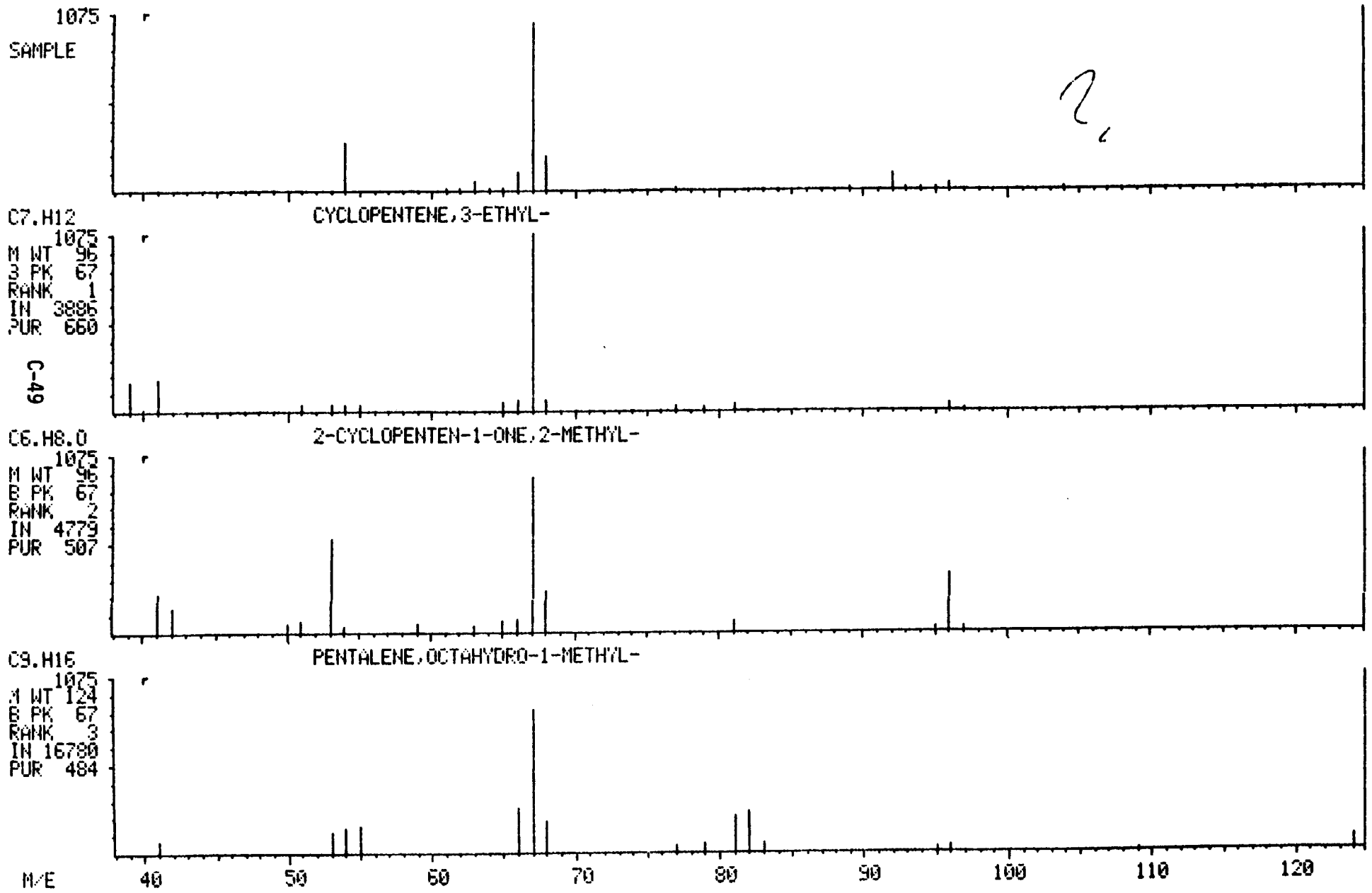
BASE M/E: 81
RIC: 592895.



LIBRARY SEARCH
07/31/85 15:06:00 + 13:48
SAMPLE: R8472 VI-1 + SUL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 414
CAL1: EQ284 # 6

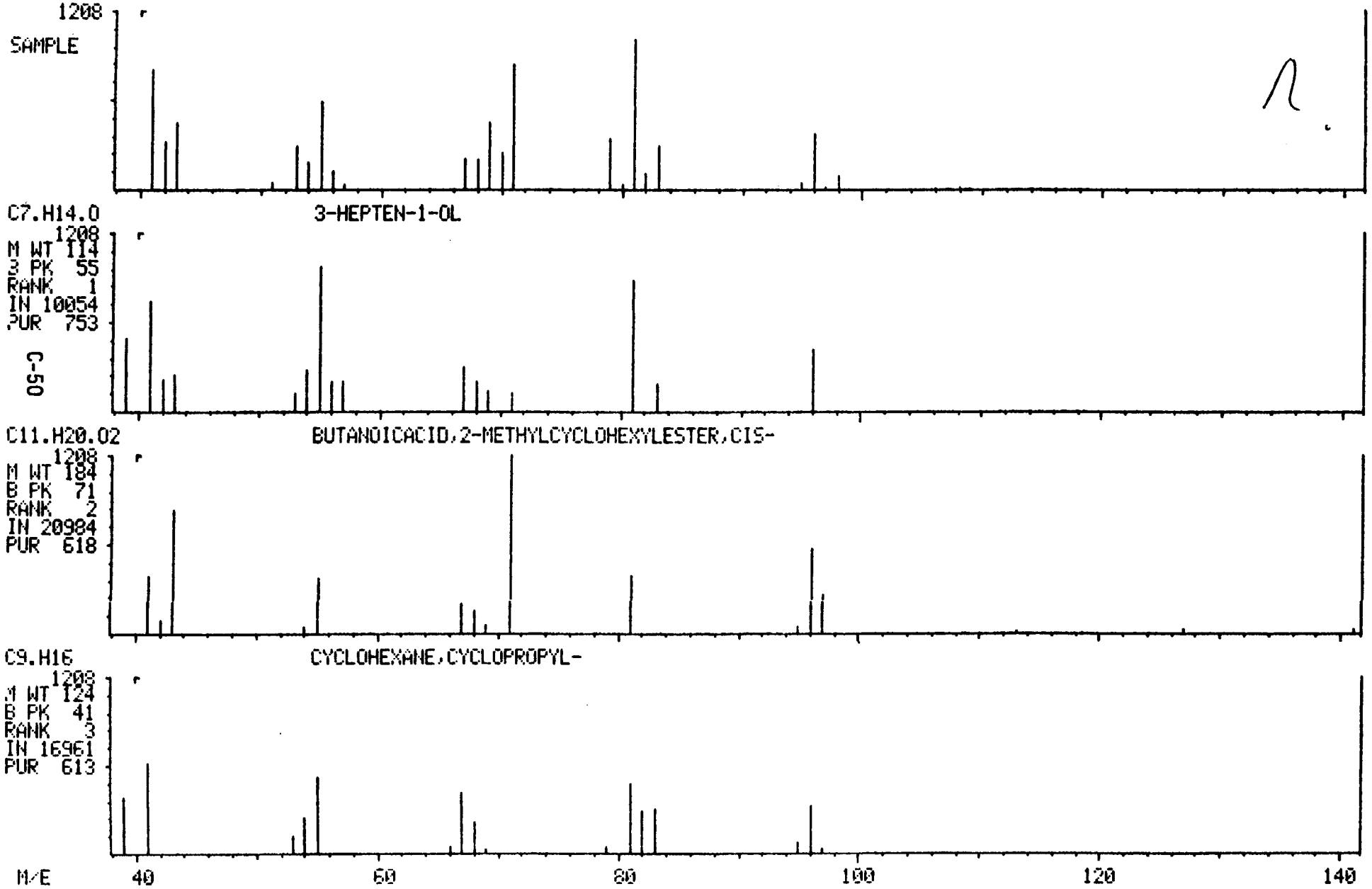
BASE M/E: 67
RIC: 118271.



LIBRARY SEARCH
07/31/85 15:06:00 + 14:00
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 420
CALI: EQ284 # 6

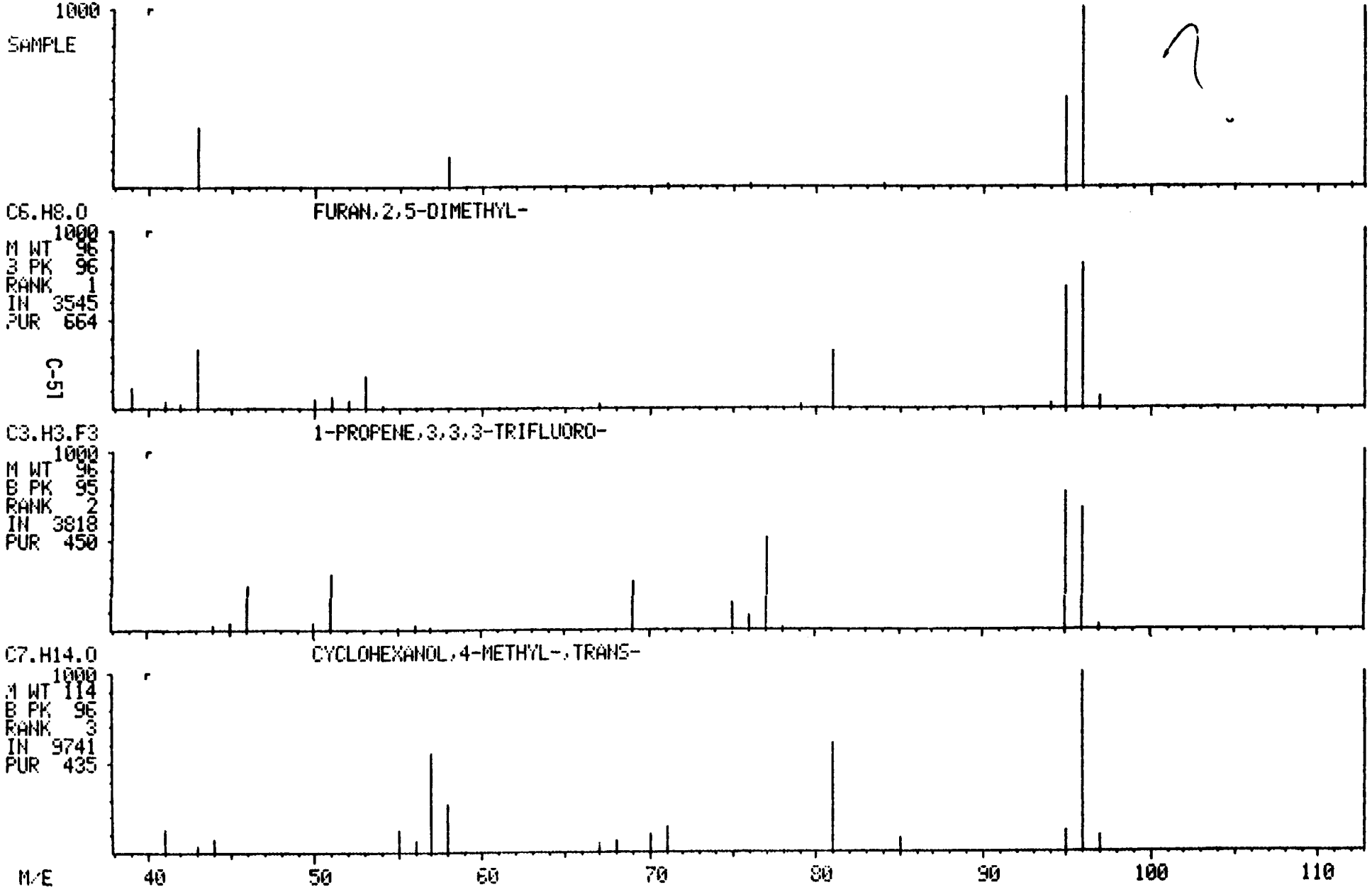
BASE M/E: 81
RIC: 539647.



LIBRARY SEARCH
07/31/85 15:06:00 + 14:40
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 440
CALI: EQ284 # 6

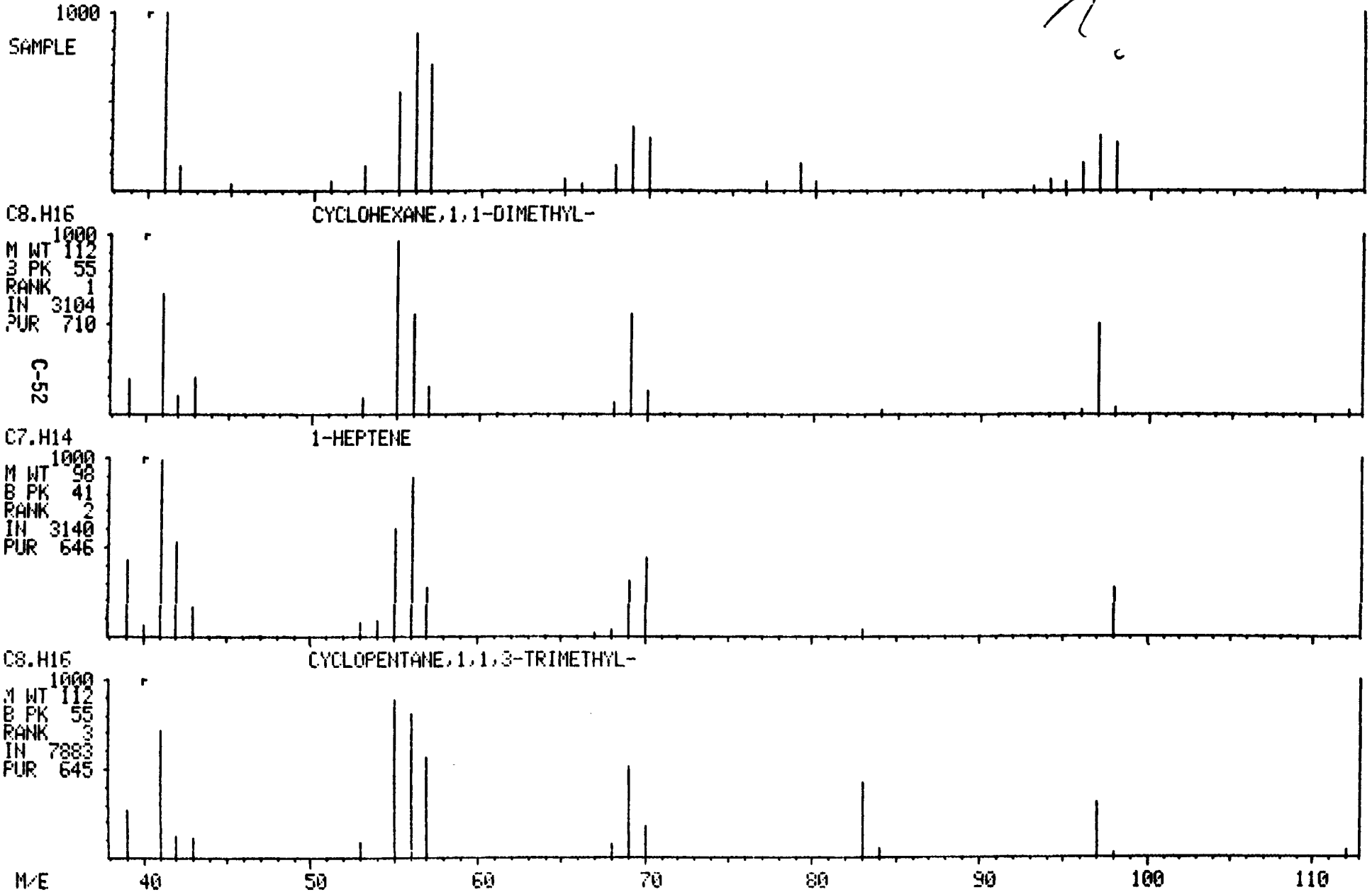
BASE M/E: 96
RIC: 65279.



LIBRARY SEARCH
07/31/85 15:06:00 + 14:52
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 446
CALI: EQ284 # 6

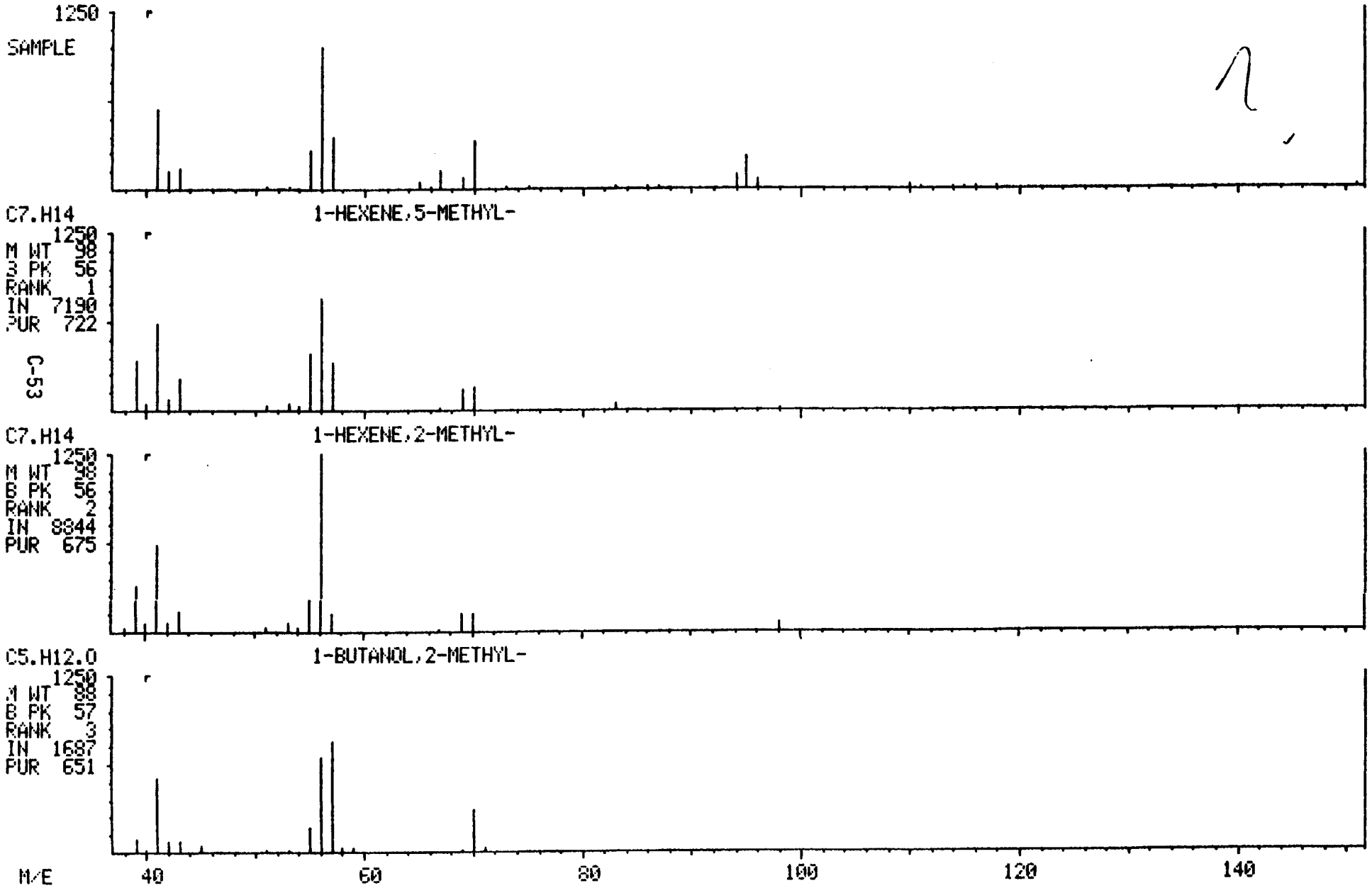
BASE M/E: 41
RIC: 1039350.



LIBRARY SEARCH
07/31/85 15:06:00 + 15:10
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 455
CALI: EQ284 # 6

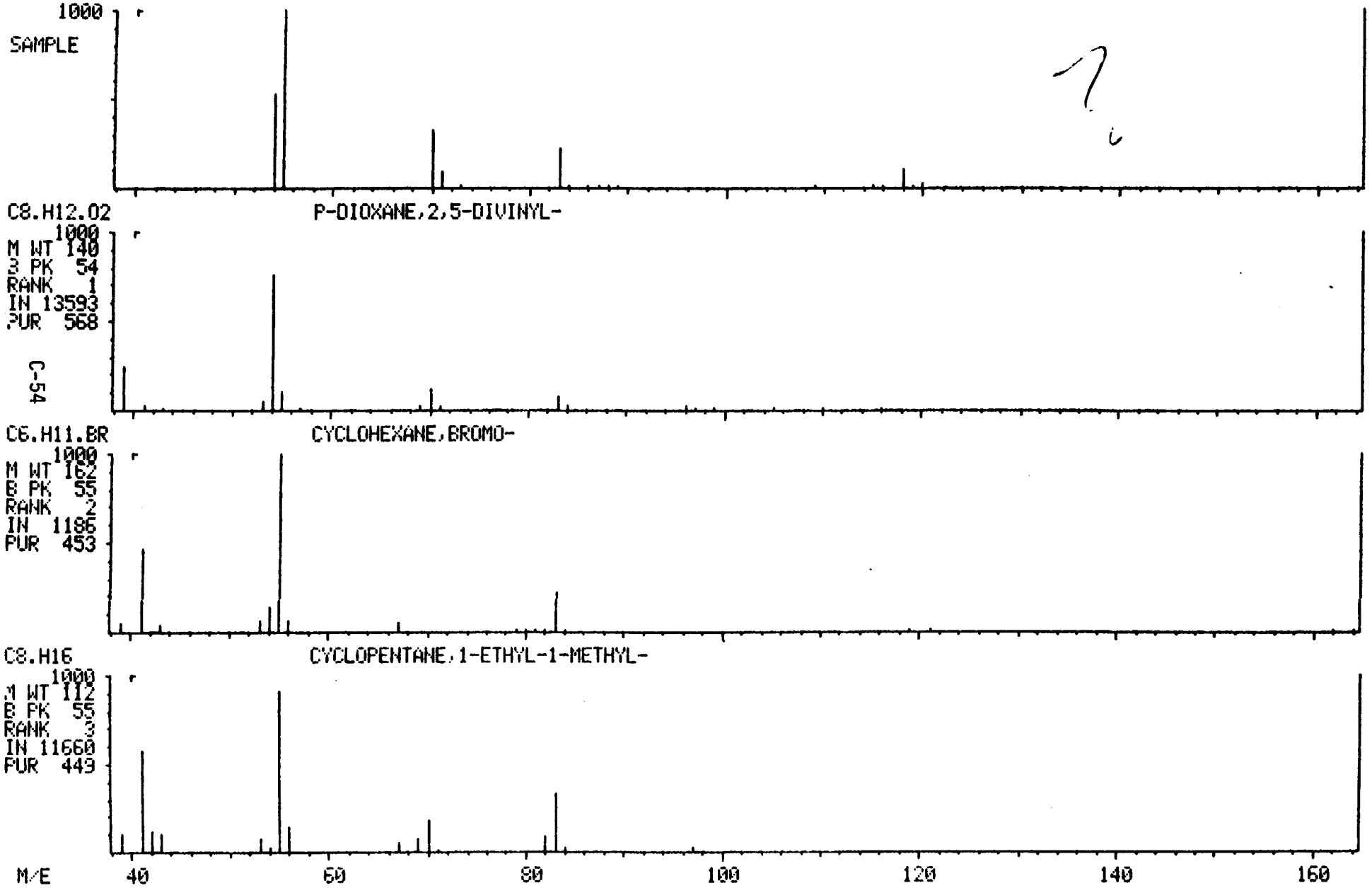
BASE M/E: 56
RIC: 260095.



LIBRARY SEARCH
07/31/85 15:05:00 + 15:28
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 464
CALI: EQ284 # 6

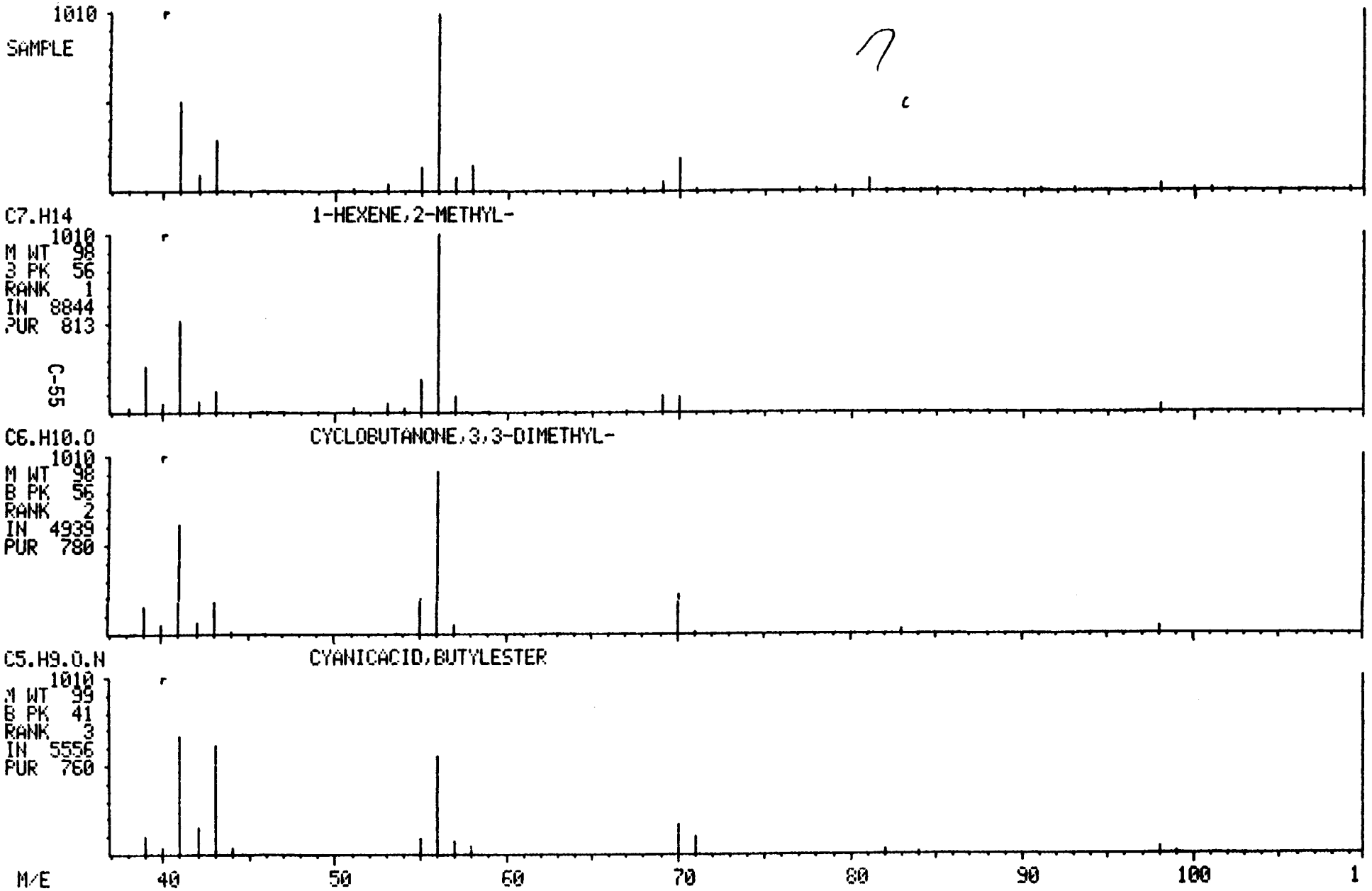
BASE M/E: 55
RIC: 81535.



LIBRARY SEARCH
07/31/85 15:06:00 + 15:36
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 468
CALI: EQ284 # 6

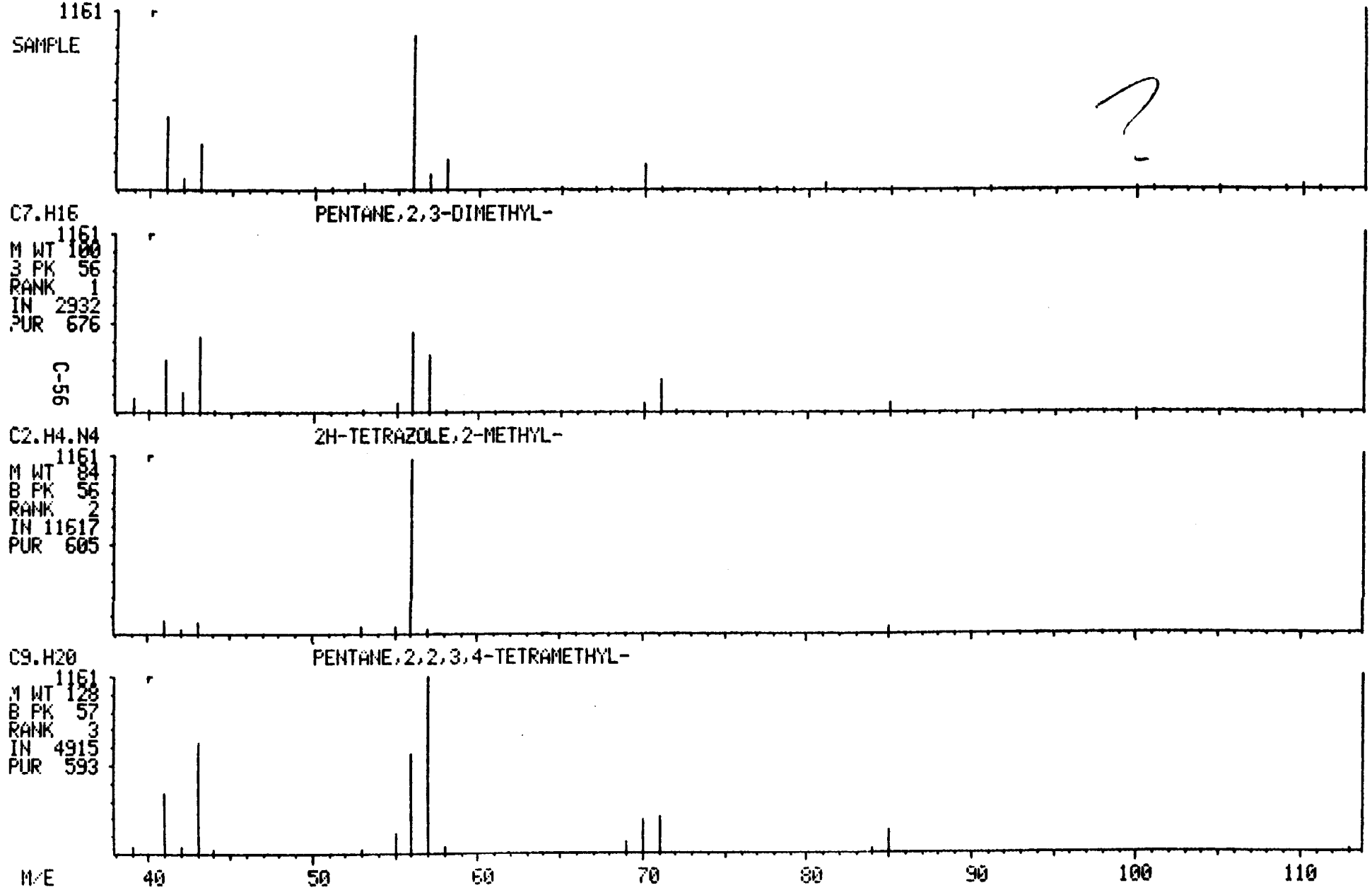
BASE M/E: 56
RIC: 469503.



LIBRARY SEARCH
07/31/85 15:06:00 + 15:38
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 469
CALI: E0284 # 6

BASE M/E: 56
RIC: 405503.

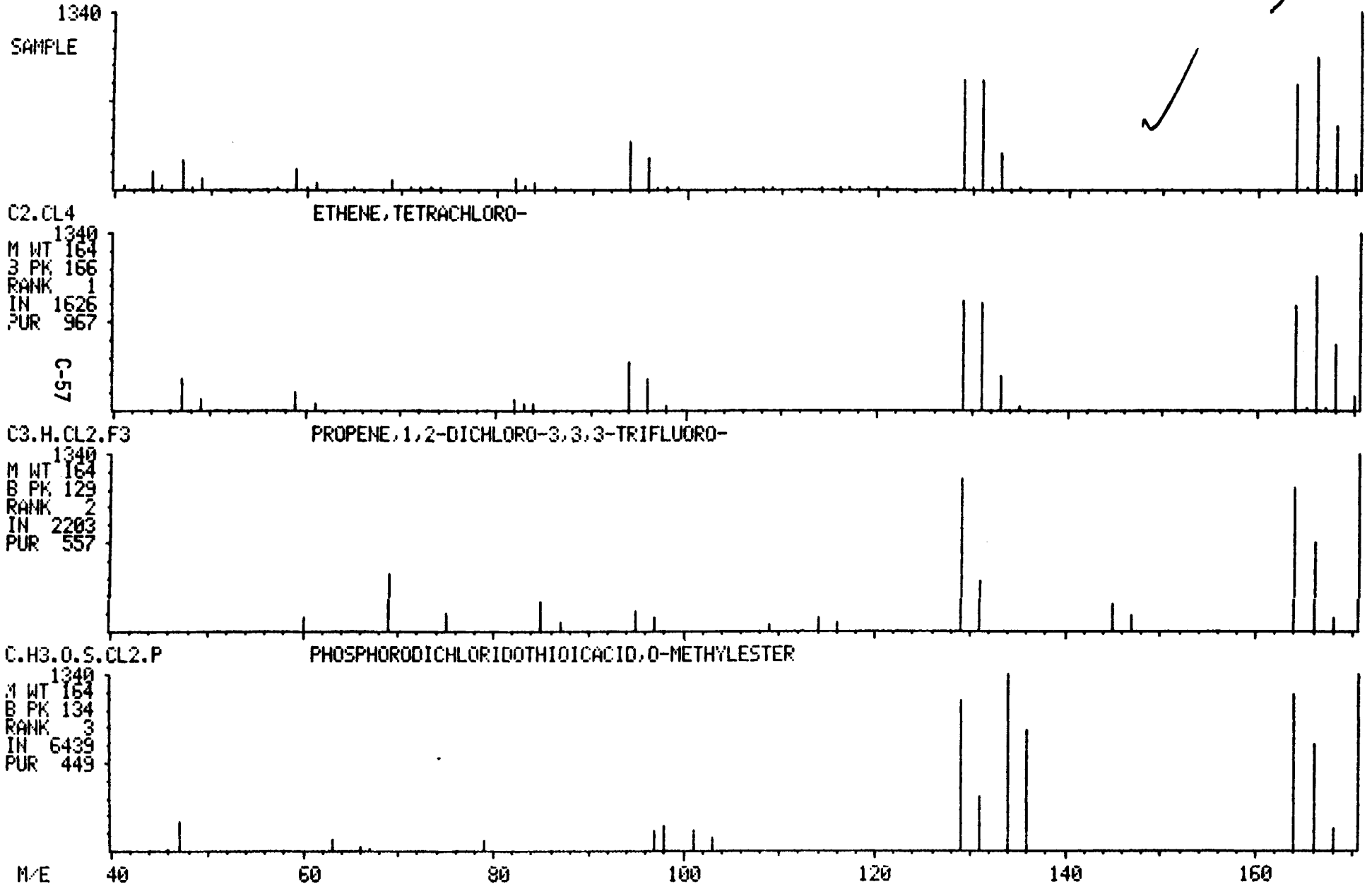


LIBRARY SEARCH
07/31/85 15:06:00 + 15:46
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 473
CALI: E0284 # 6

BASE M/E: 166
RIC: 1789950.

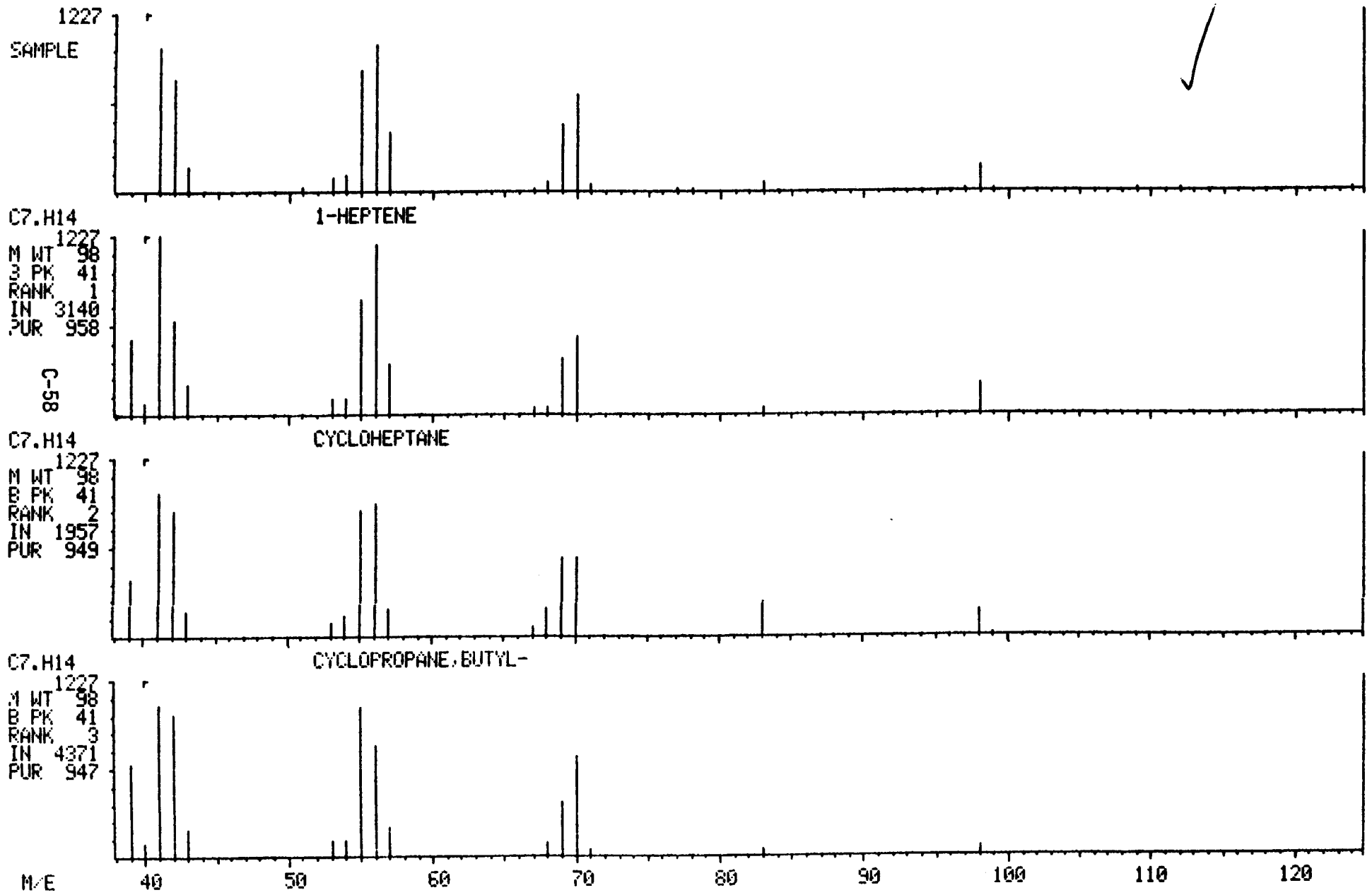
HSL



LIBRARY SEARCH
07/31/85 15:06:00 + 16:06
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 483
CALI: EQ284 # 6

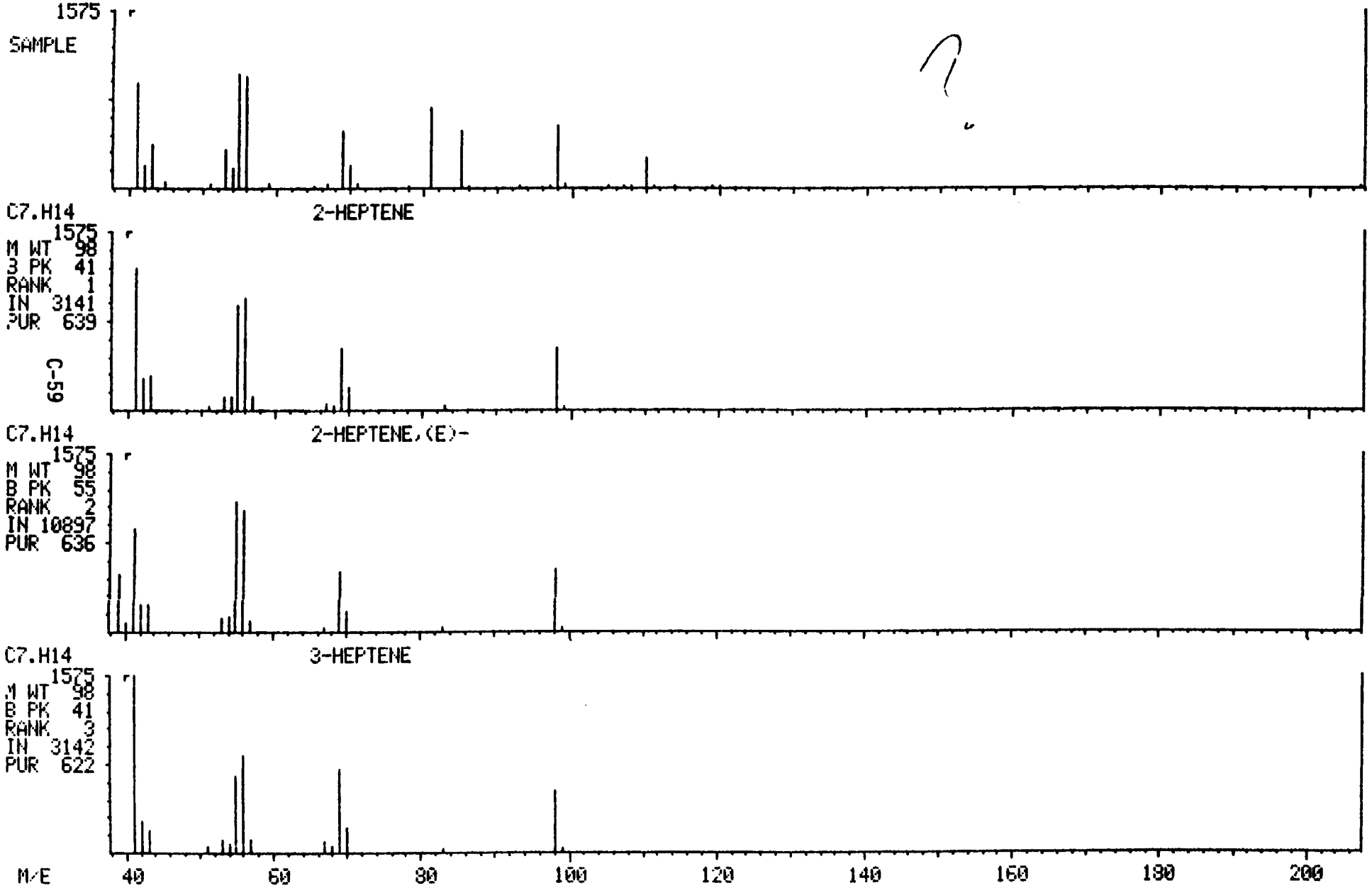
BASE M/E: 56
RIC: 2789370.



LIBRARY SEARCH
07/31/85 15:06:00 + 16:22
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 491
CALI: EQ284 # 6

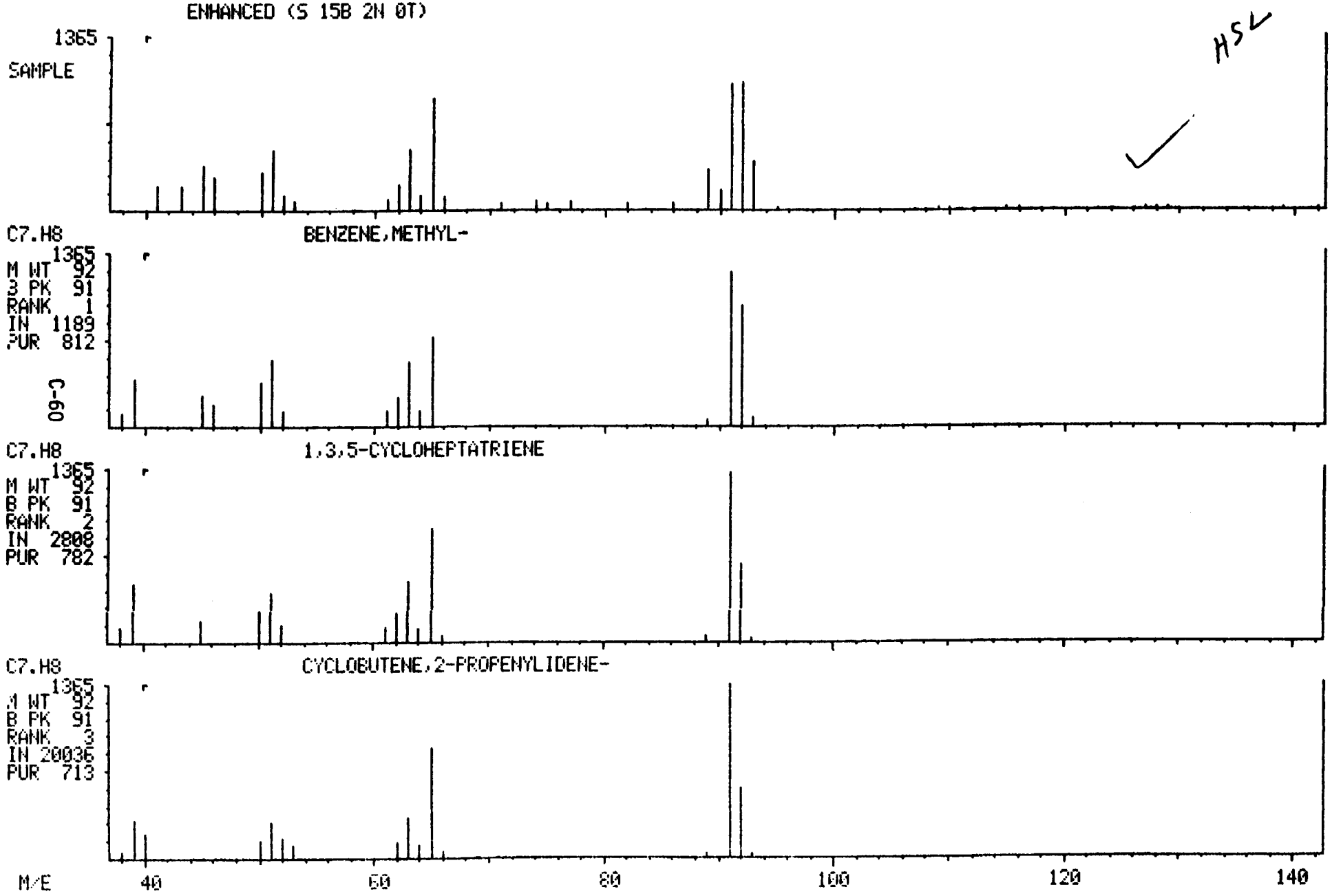
BASE M/E: 55
RIC: 421887.



LIBRARY SEARCH
07/31/85 15:05:00 + 16:44
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 502
CALI: EQ284 # 6

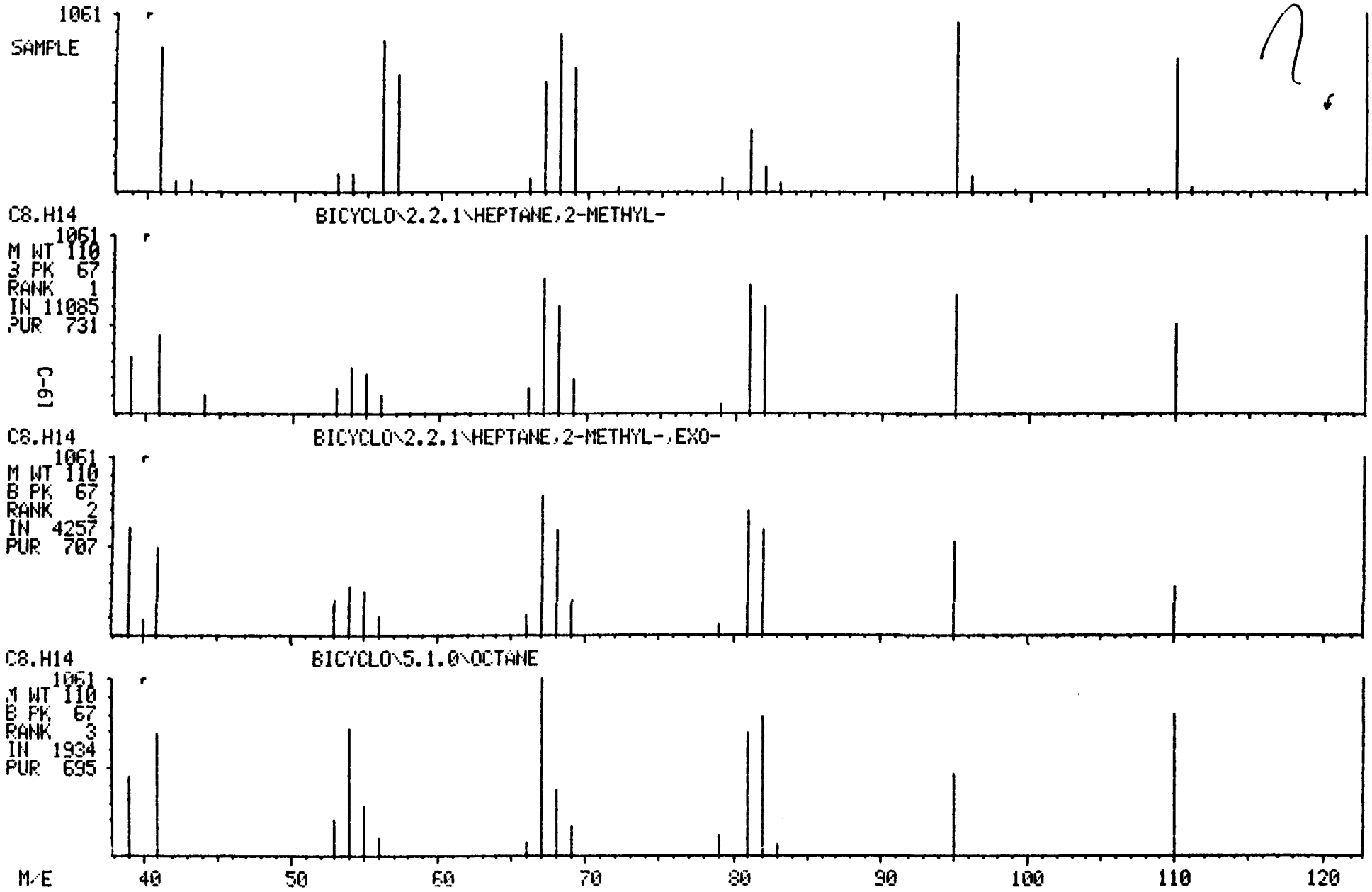
BASE M/E: 92
RIC: 3960830.



LIBRARY SEARCH
07/31/85 15:06:00 + 17:06
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 513
CALI: EQ284 # 6

BASE M/E: 95
RIC: 182015.

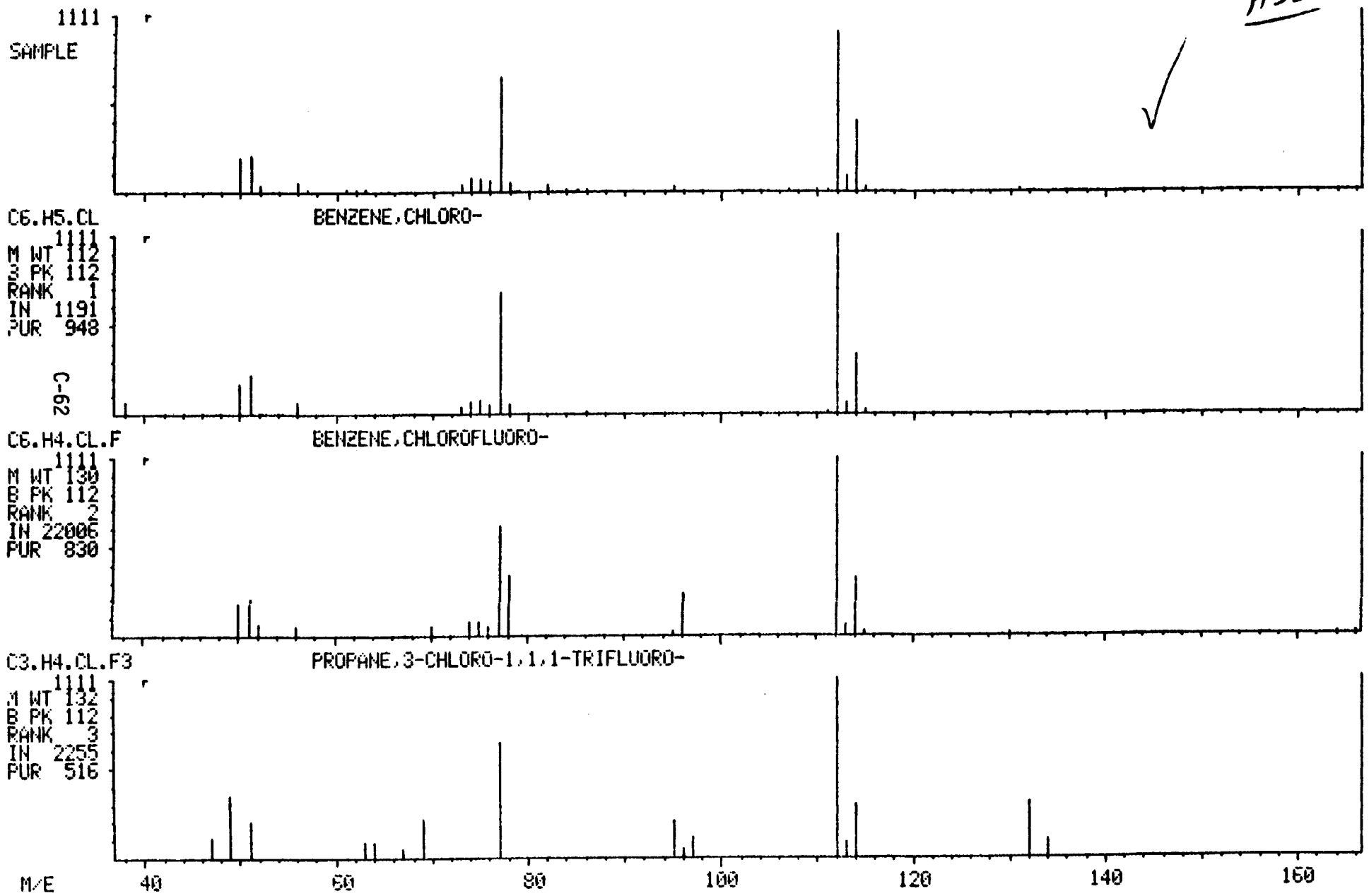


LIBRARY SEARCH
07/31/85 15:06:00 + 17:30
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 525
CALI: EQ284 # 6

BASE M/E: 112
RIC: 1771510.

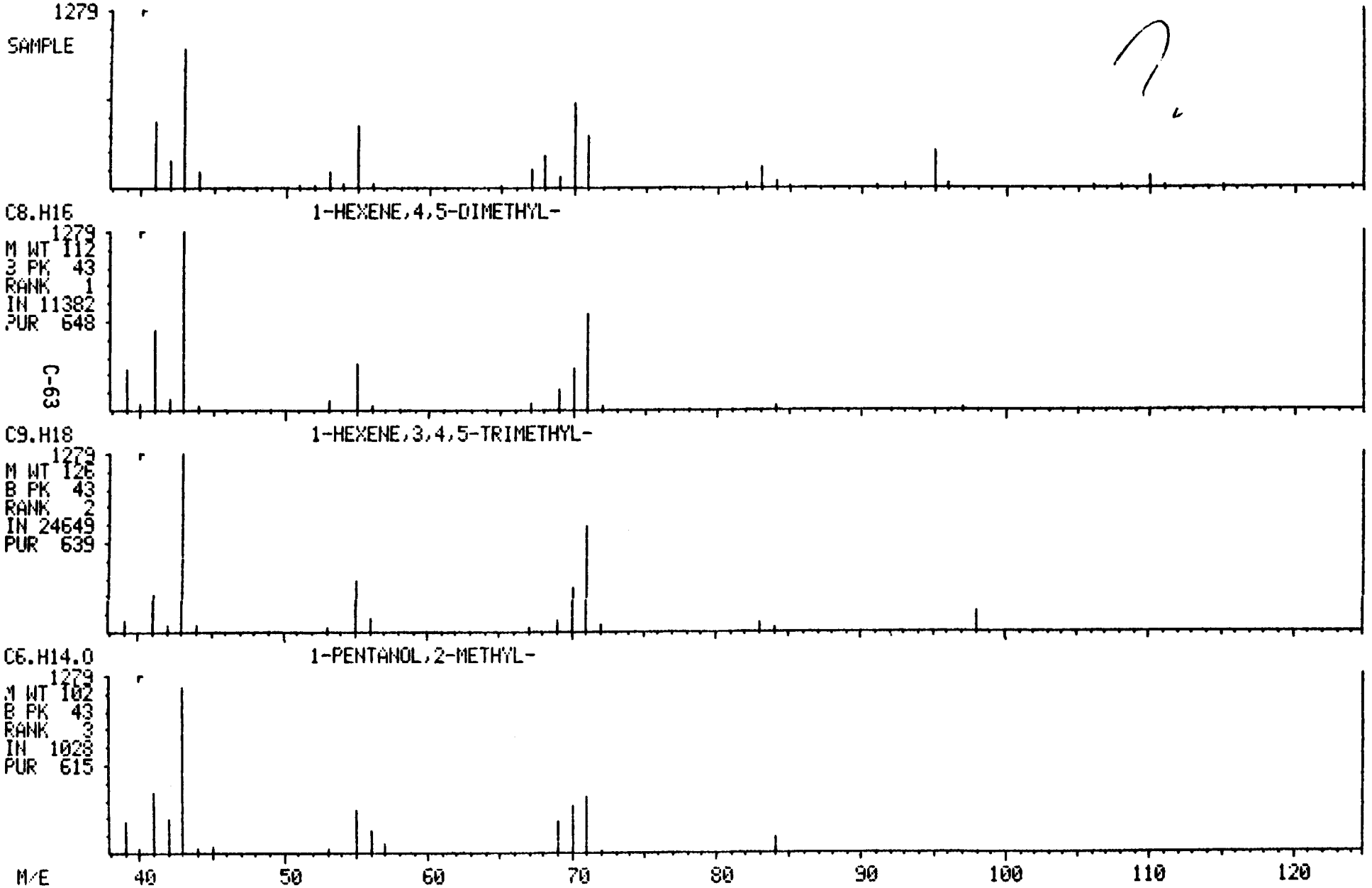
HSL



LIBRARY SEARCH
07/31/85 15:06:00 + 18:06
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 543
CALI: E0284 # 6

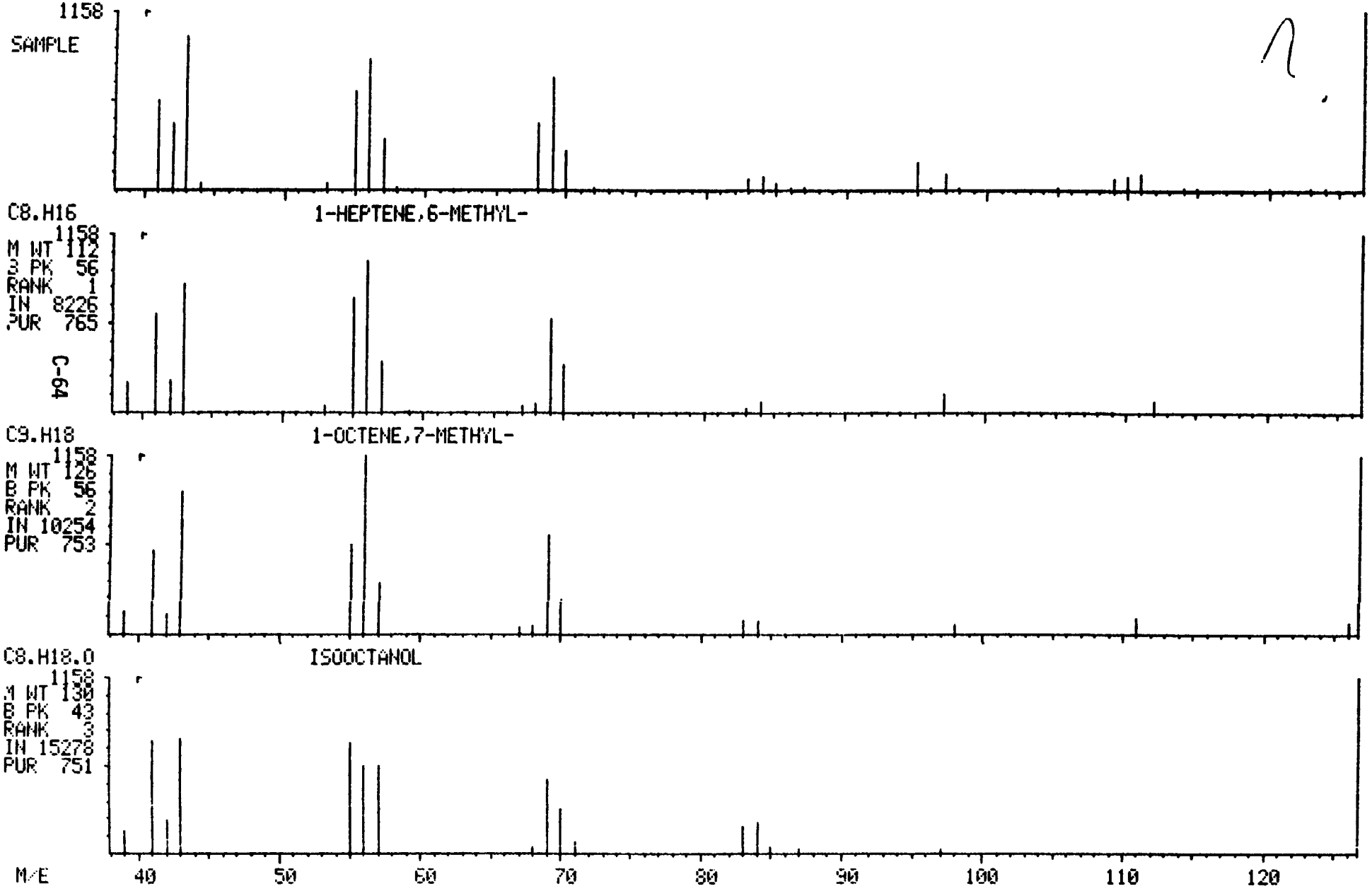
BASE M/E: 43
RIC: 439807.



LIBRARY SEARCH
07/31/85 15:06:00 + 18:30
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 555
CALI: E0284 # 6

BASE M/E: 43
RIC: 232959.

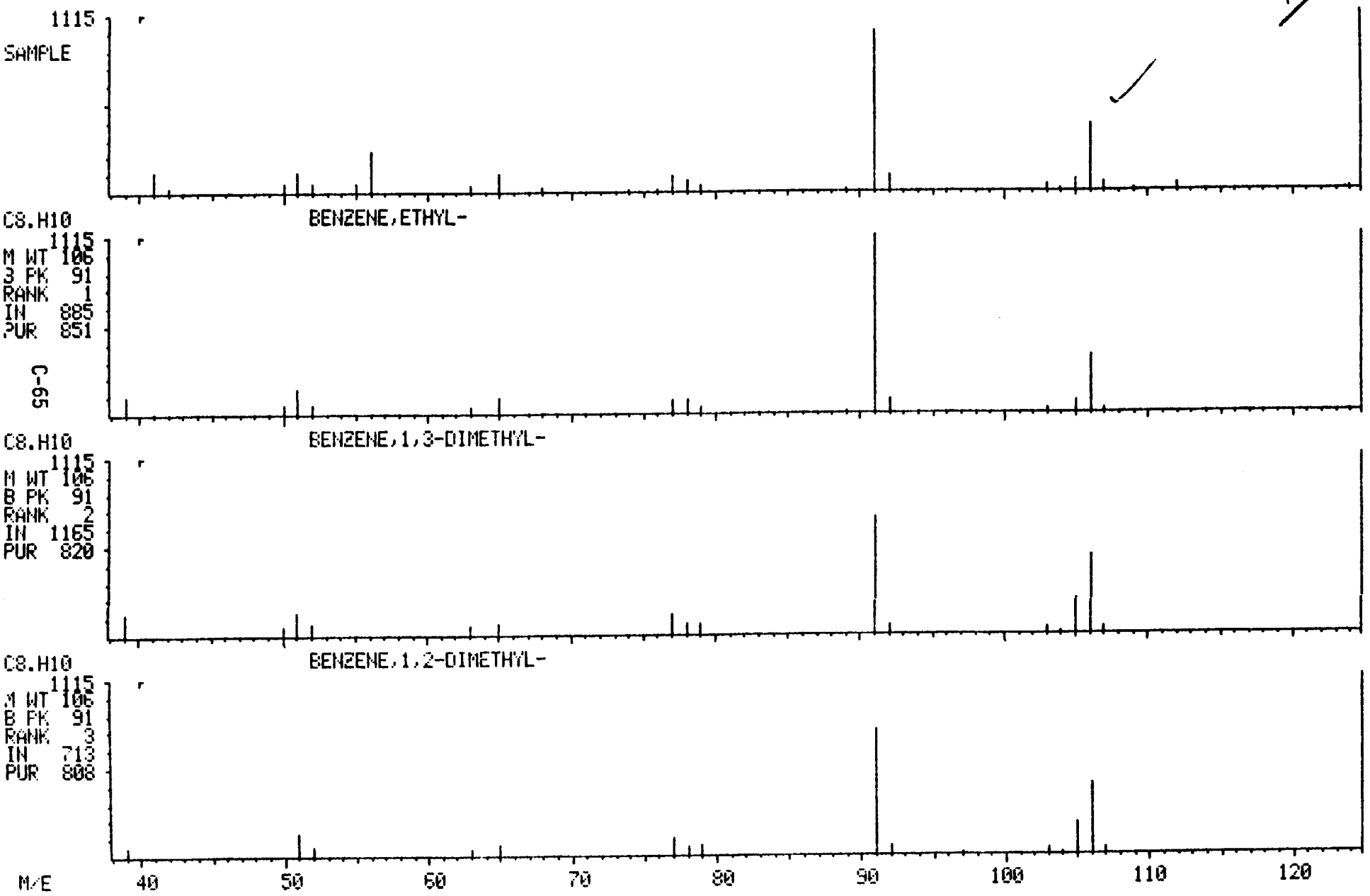


LIBRARY SEARCH
07/31/85 15:05:00 + 18:54
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 567
CALI: E0284 # 6

BASE M/E: 91
RIC: 1452030.

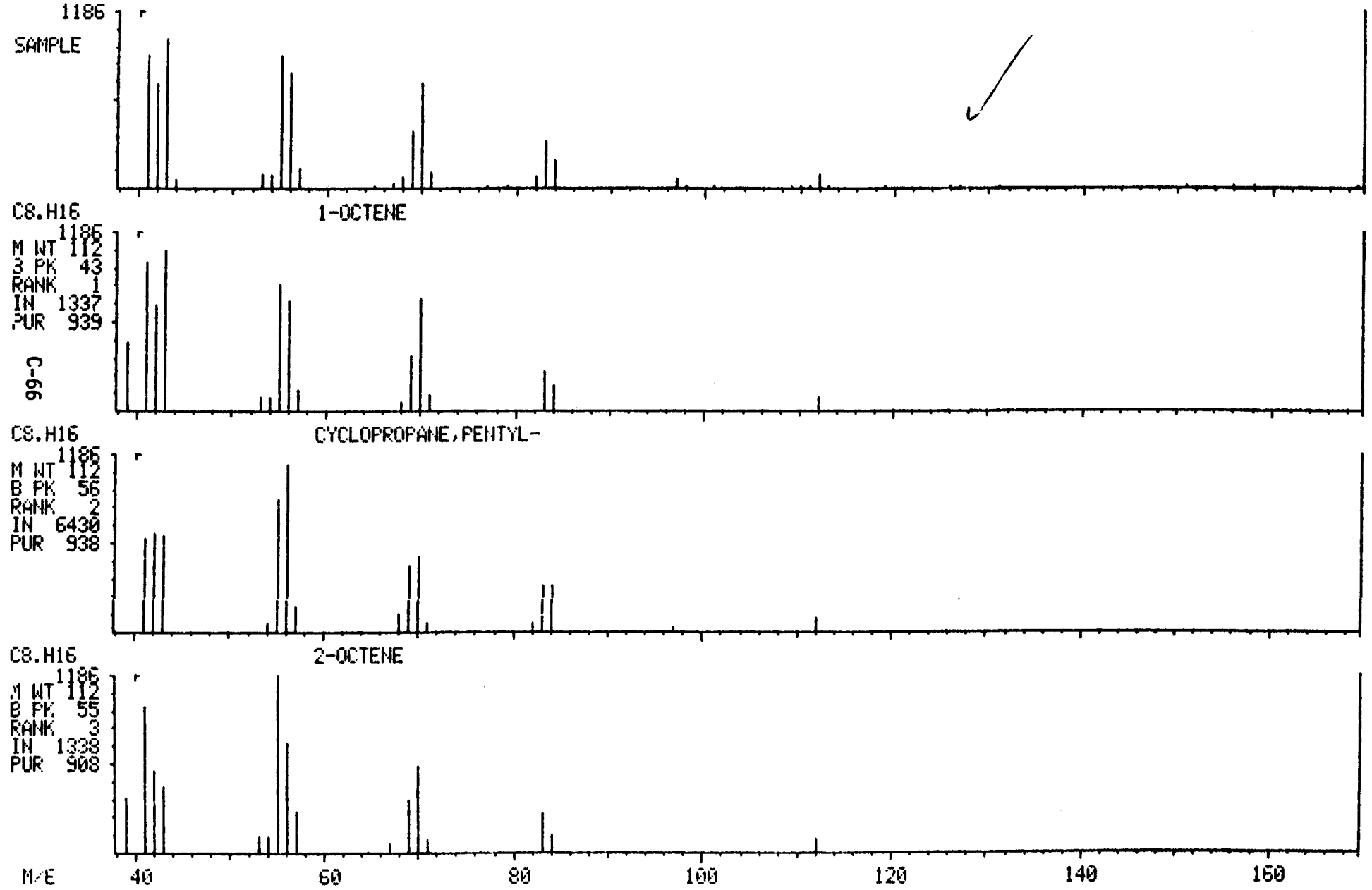
MSL



LIBRARY SEARCH
07/31/85 15:05:00 + 19:30
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 585
CALI: EQ284 # 6

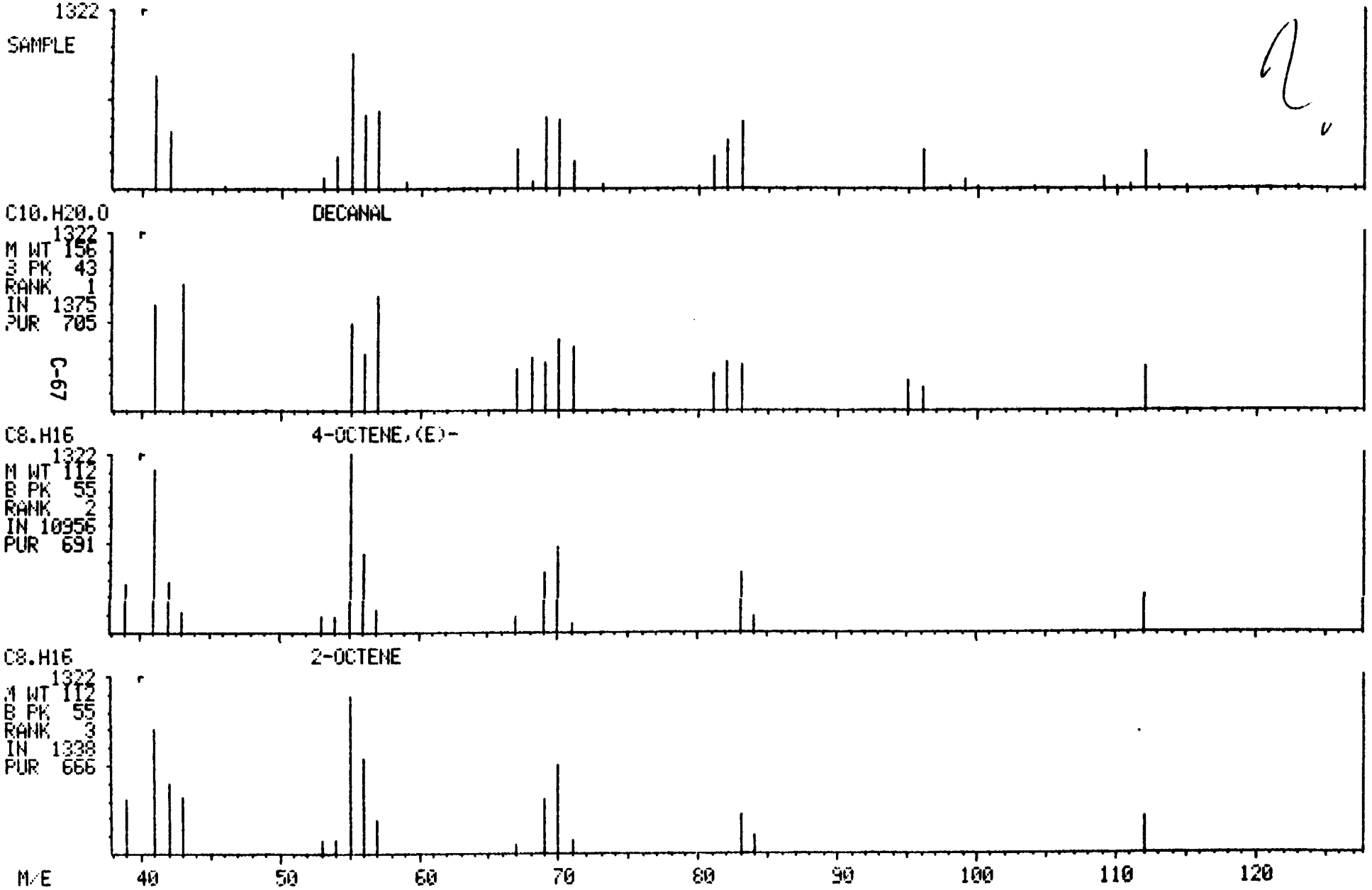
BASE M/E: 43
RIC: 1931260.



LIBRARY SEARCH
07/31/85 15:06:00 + 19:52
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 536
CALI: EQ284 # 6

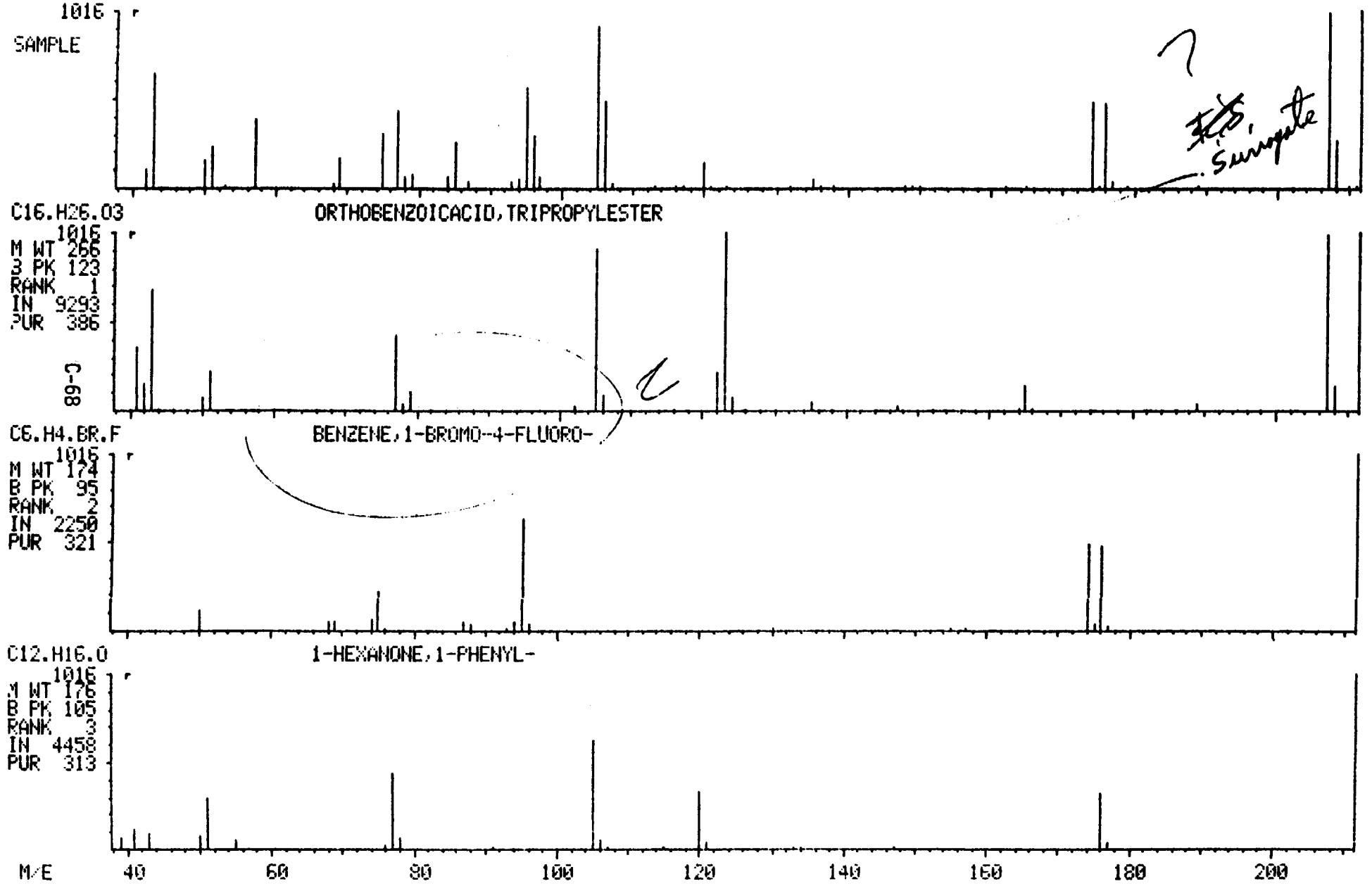
BASE M/E: 55
RIC: 160511.



LIBRARY SEARCH
07/31/85 15:06:00 + 20:30
SAMPLE: R8472 VI-1 + SUL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 615
CALI: E0284 # 6

BASE M/E: 207
RIC: 429055.

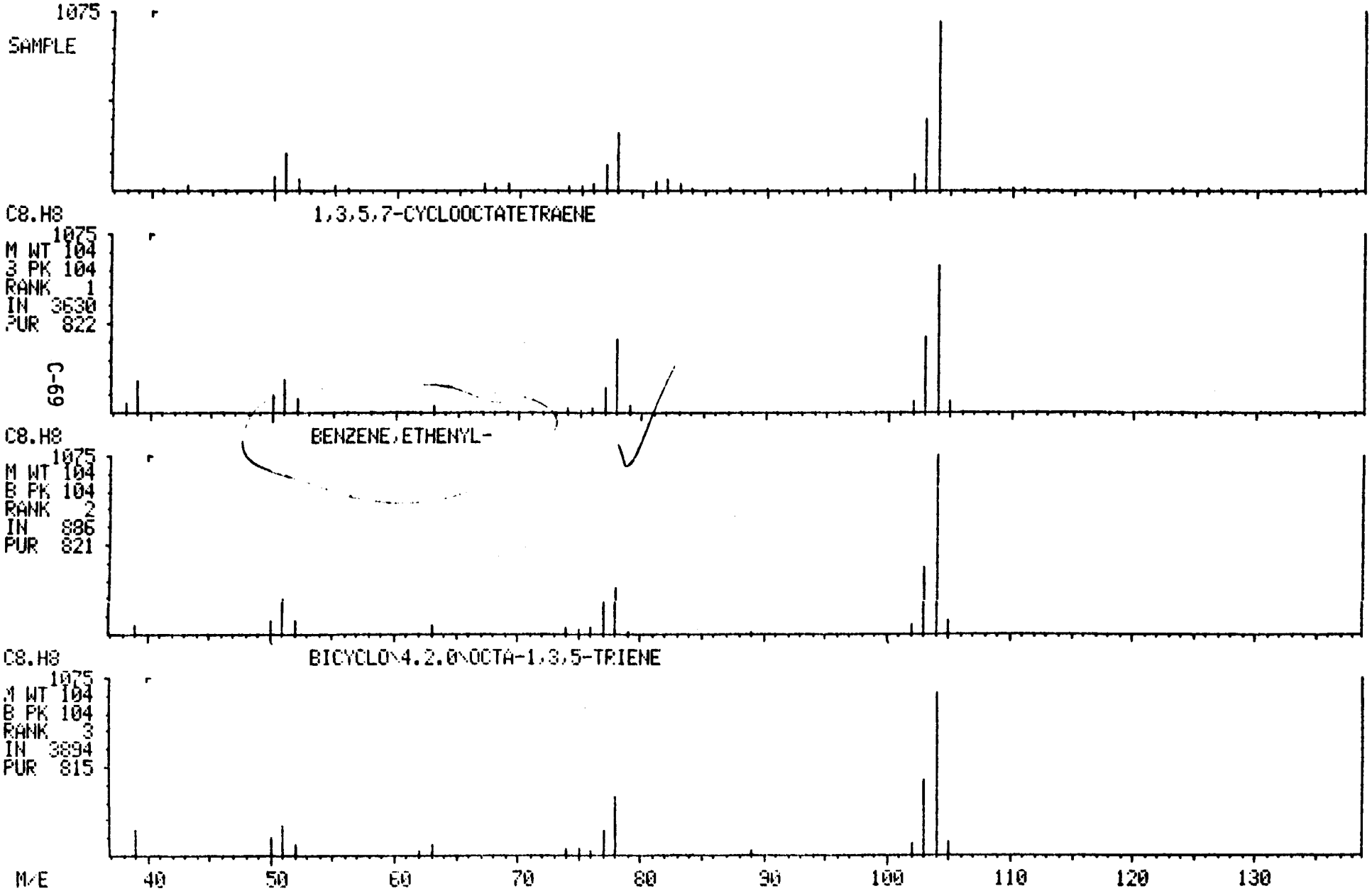


LIBRARY SEARCH
07/31/85 15:06:00 + 21:42
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 651
CALI: E0284 # 6

BASE M/E: 104
RIC: 739327.

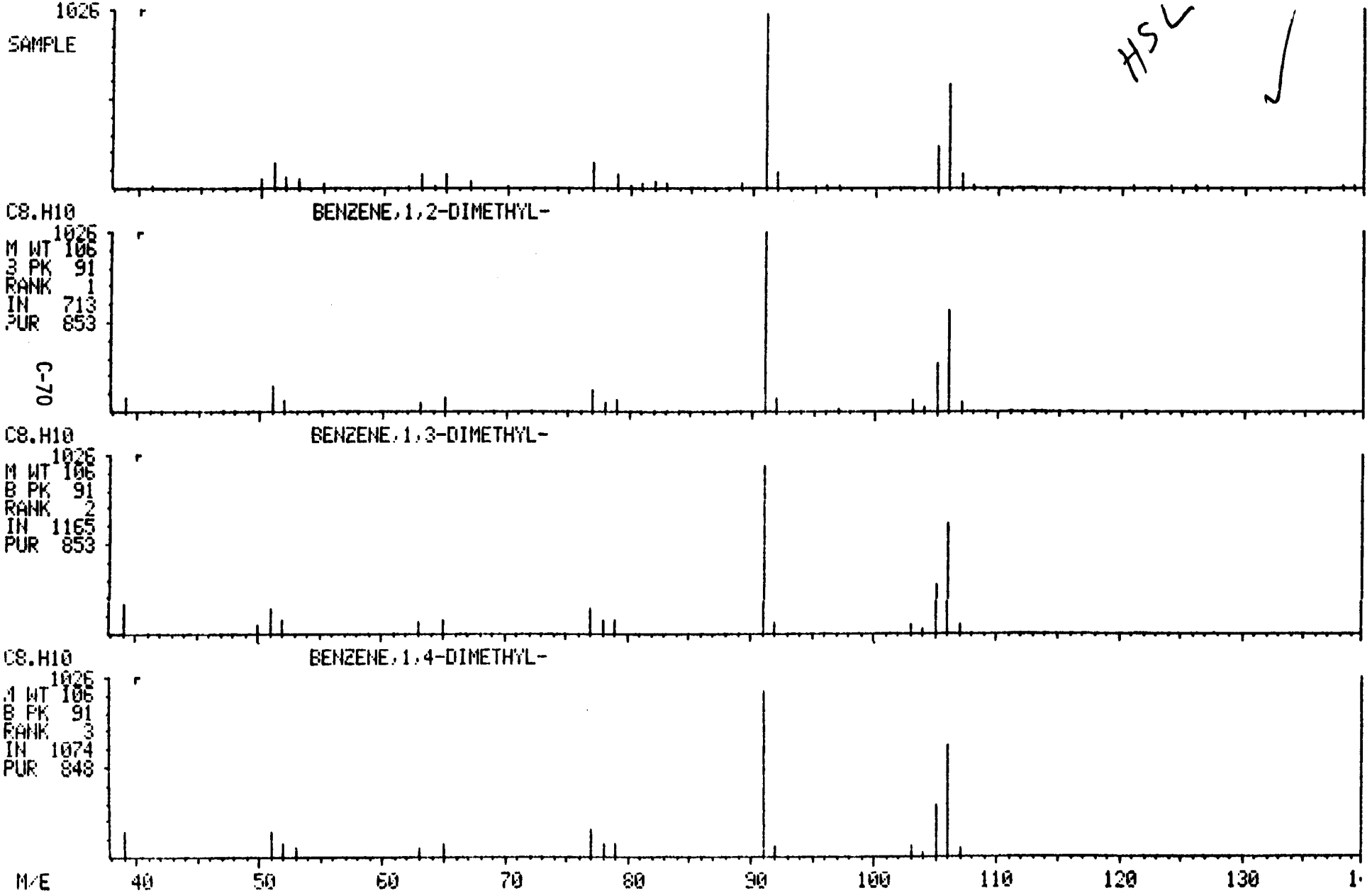
ASL



LIBRARY SEARCH
07/31/85 15:06:00 + 21:50
SAMPLE: P8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 655
CALI: EQ284 # 6

BASE M/E: 91
RIC: 794623.

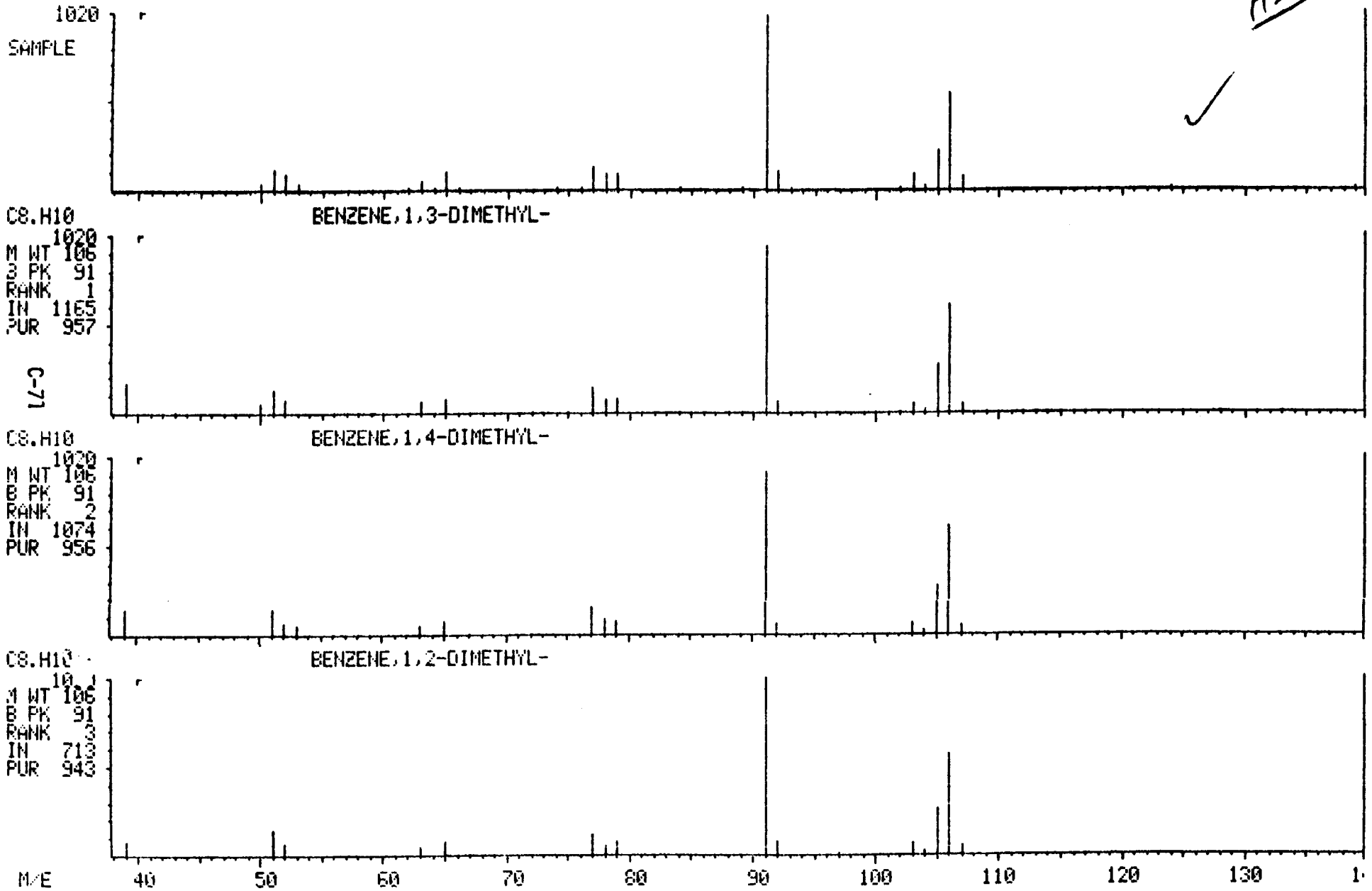


LIBRARY SEARCH
07/31/85 15:06:00 + 22:34
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: EQ284 # 677
CALI: EQ284 # 6

BASE M/E: 91
RIC: 720895.

MSL

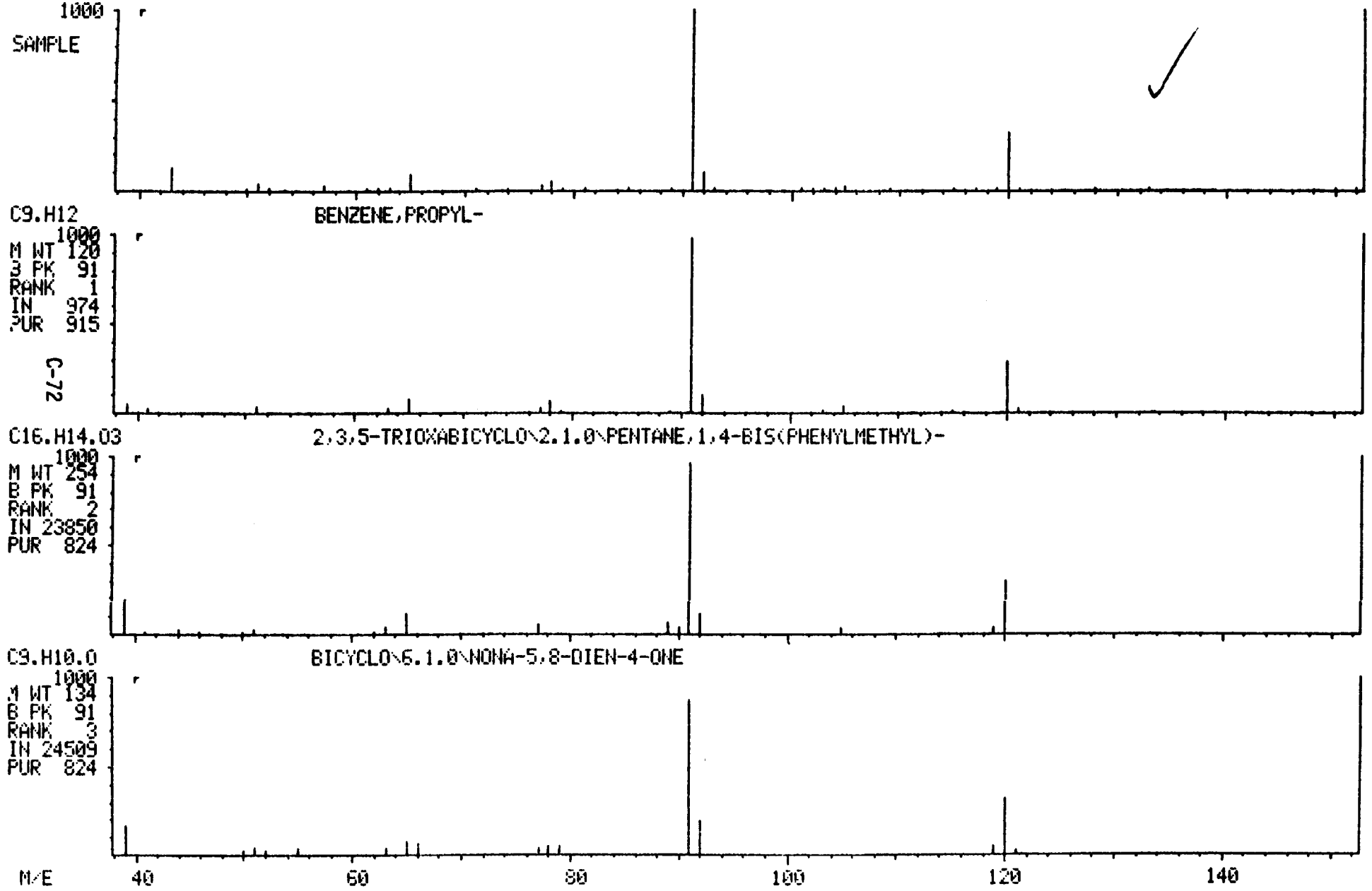


C-71

LIBRARY SEARCH
07/31/85 15:05:00 + 23:40
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 710
CALI: E0284 # 6

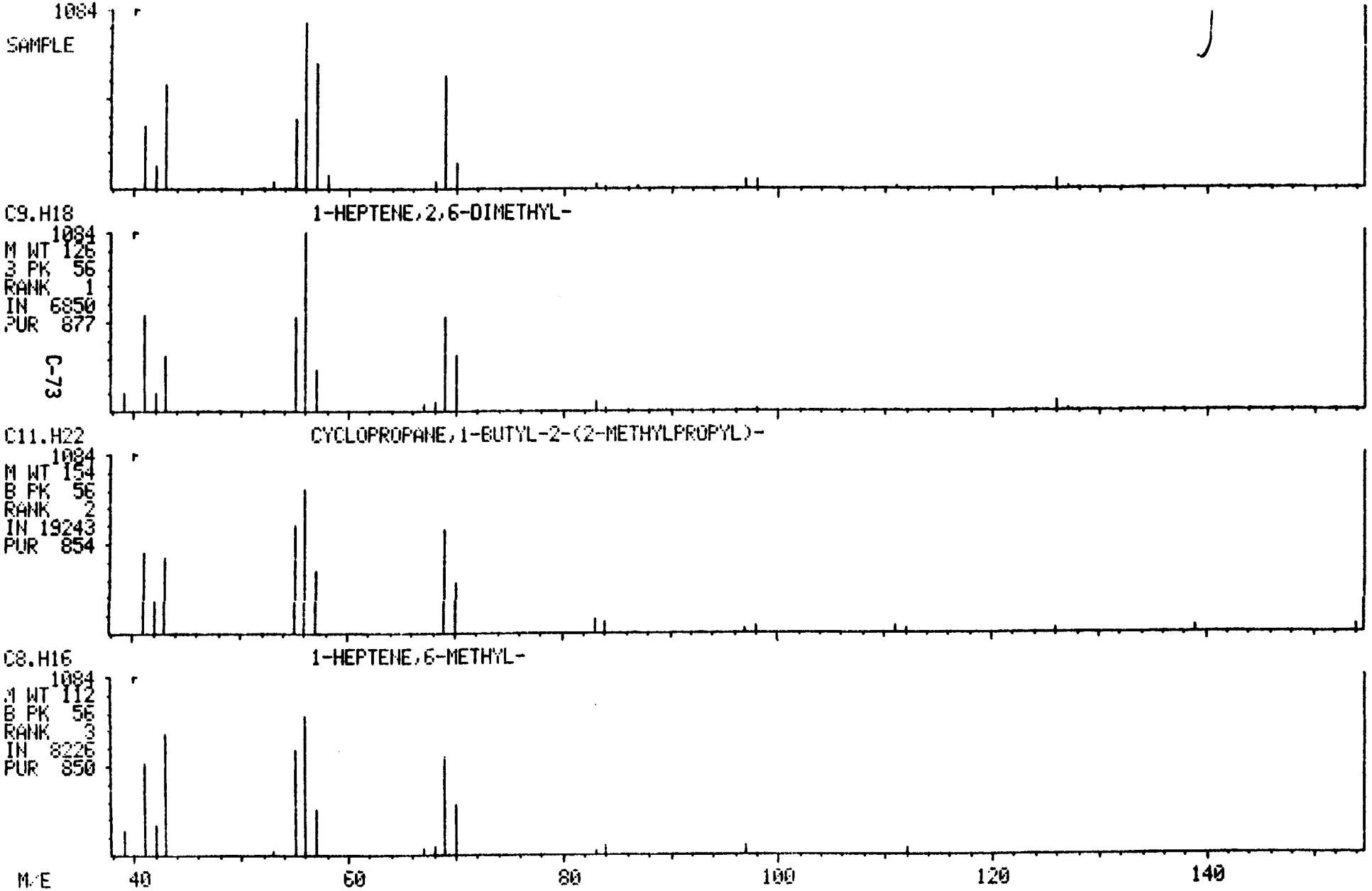
BASE M/E: 91
RIC: 106367.



LIBRARY SEARCH
07/31/85 15:06:00 + 24:12
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 15B 2N 0T)

DATA: E0284 # 726
CALI: E0284 # 6

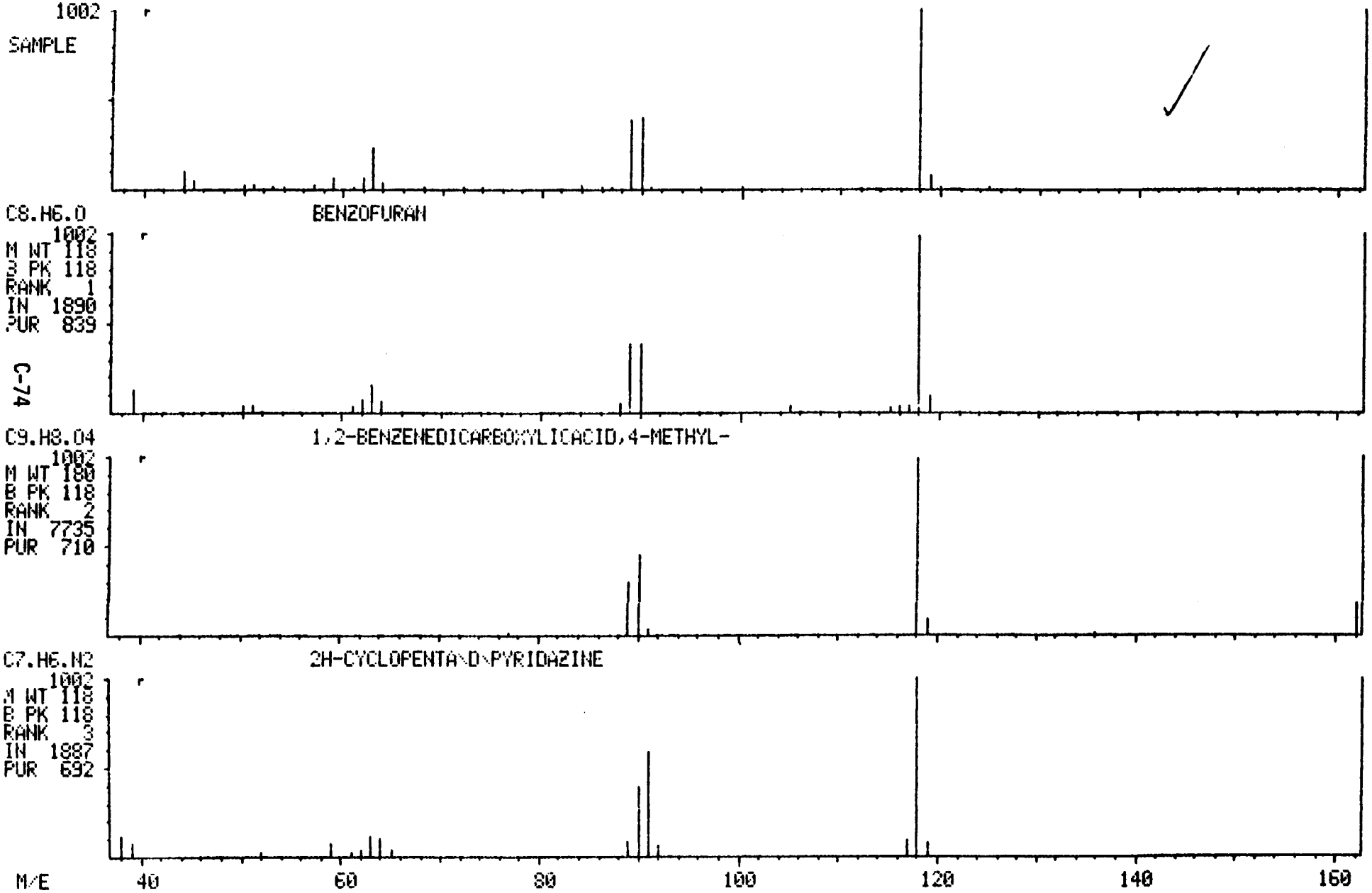
BASE M/E: 56
RIC: 79615.

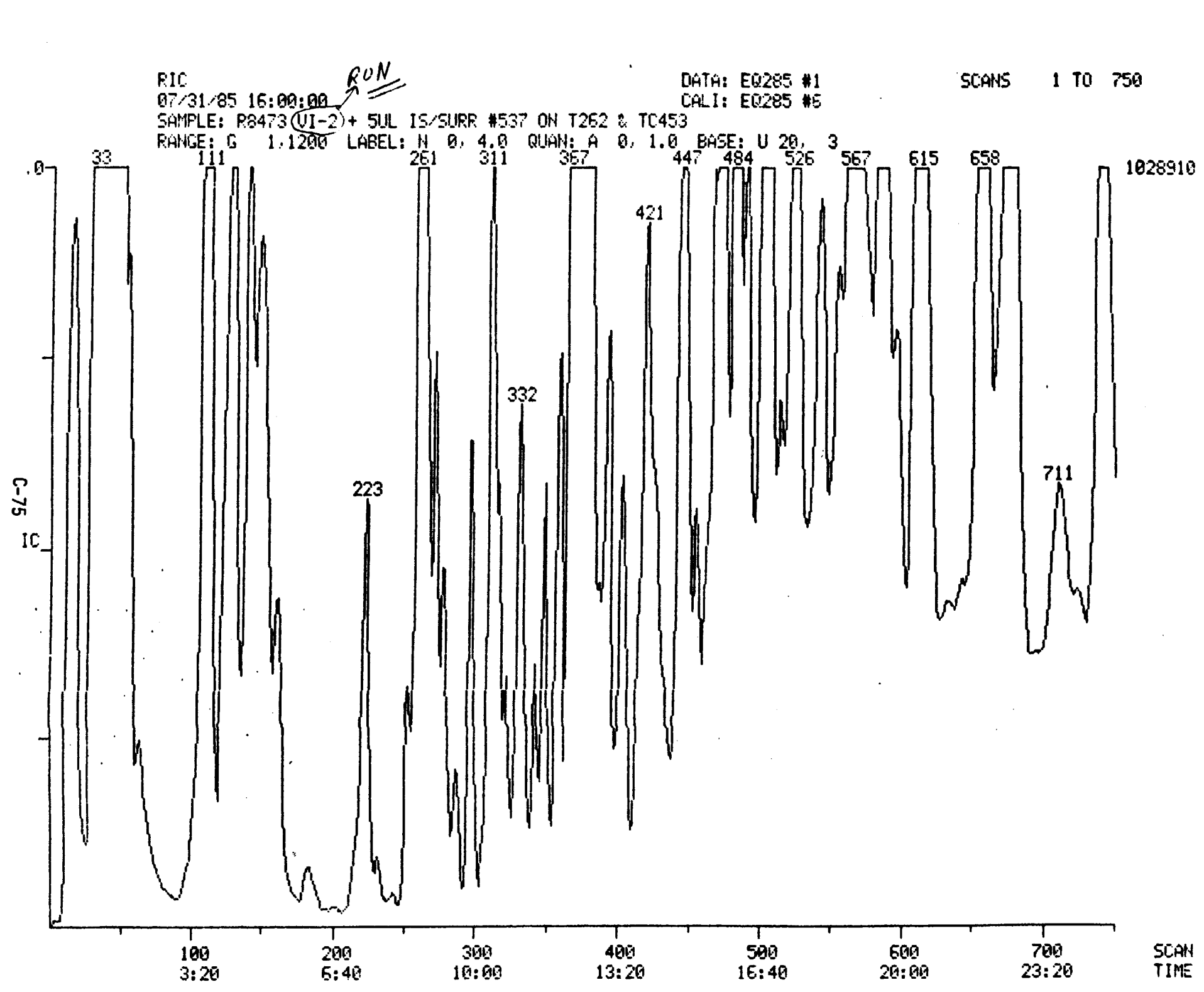


LIBRARY SEARCH
07/31/85 15:06:00 + 24:46
SAMPLE: R8472 VI-1 + 5UL IS/SURR #537 ON T413 & TC480
ENHANCED (S 158 2N 0T)

DATA: E0284 # 743
CALI: E0284 # 6

BASE M/E: 118
RIC: 137727.




RIC
07/31/85 16:00:00
RUN
SAMPLE: R8473 (VI-2) + 5UL IS/SURR #537 ON T262 & TC453
RANGE: G 1.1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
DATA: EQ285 #1
CALI: EQ285 #5
SCANS 1 TO 750
.0
1028910
C-75
IC
33
111
223
261
311
332
367
421
447
484
526
567
615
658
711
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

QUANTITATION REPORT FILE: EQ285

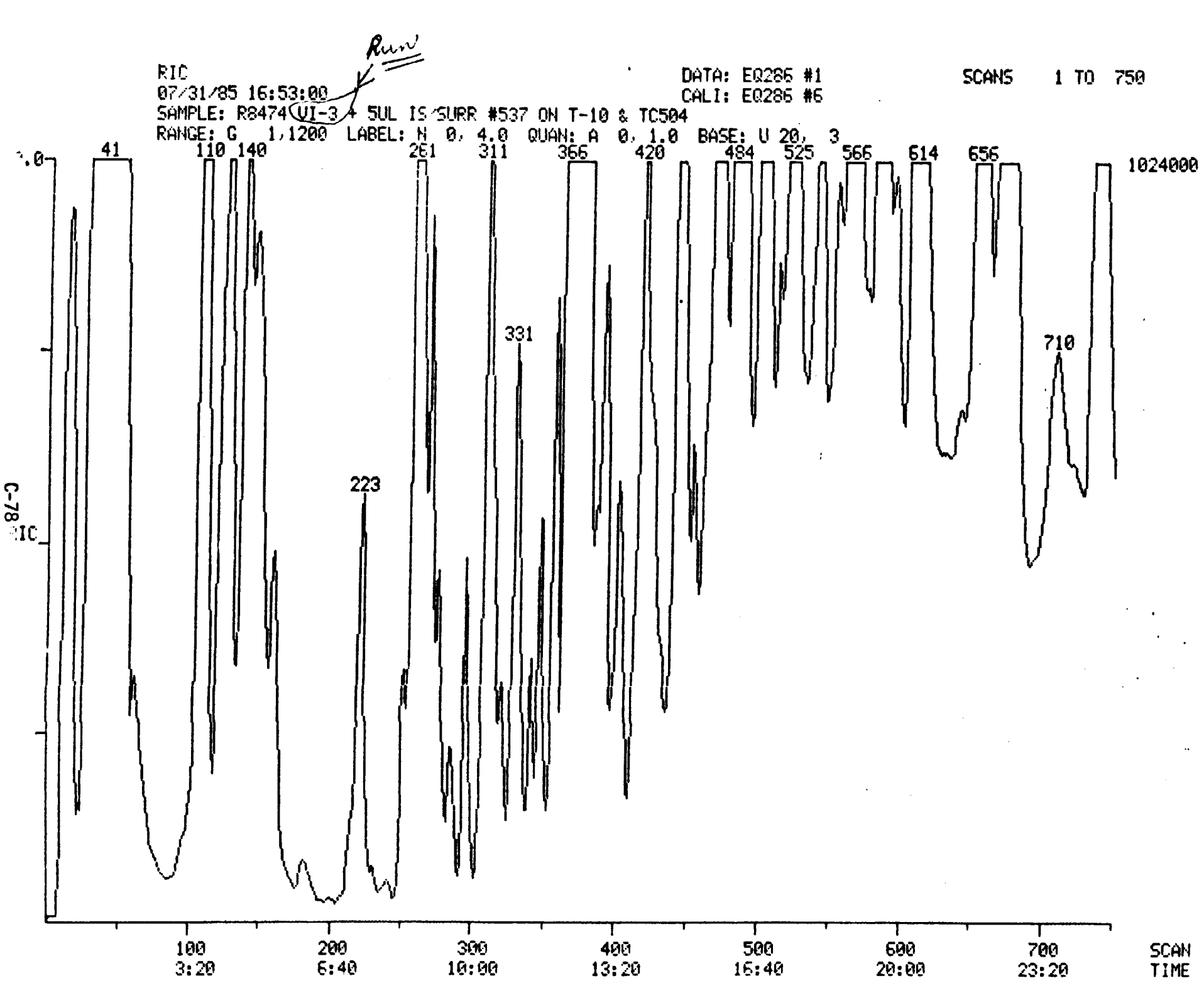
DATA: EQ285.TI
07/31/85 16:00:00
SAMPLE: R8473 VI-2 + 5UL IS/SURR #537 ON T262 & TC453
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
7	CHLOROMETHANE (50) * *
8	BROMOMETHANE (94)
9	VINYL CHLORIDE (62) *
10	CHLOROETHANE (64)
11	METHYLENE CHLORIDE (84)
12	ACETONE (43)
13	CARBON DISULFIDE (76)
14	1,1-DICHLOROETHENE (96) * *
15	1,1-DICHLOROETHANE (63)
16	TRANS-1,2-DICHLOROETHENE (96)
17	CHLOROFORM (83) *
18	1,2-DICHLOROETHANE (62)
19	2-BUTANONE (72)
20	1,1,1-TRICHLOROETHANE (97)
21	VINYL ACETATE (43)
22	BROMODICHLOROMETHANE (83)
23	BROMODICHLOROMETHANE (83)
24	1,2-DICHLOROPROPANE (63)
25	TRANS-1,3-DICHLOROPROPENE (75)
26	TRICHLOROETHENE (130) $
27	DIBROMOCHLOROMETHANE (129)
28	BENZENE (78) $
29	CIS 1,3-DICHLOROPROPENE (75)
30	2-CHLOROETHYL VINYL ETHER (63)
31	2-HEXANONE (43)
32	4-METHYL 2-PENTANONE (43)
33	TETRACHLOROETHENE (164)
34	1,1,2,2,-TETRACHLOROETHANE (83)
35	TOLUENE (92) * $
36	CHLOROBENZENE (112) * * $
37	ETHYLBENZENE (106) *
38	STYRENE (104)
39	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	187	6:14	1	1.000	A BB	21216.	250.000	NG OC	0.46
2	114	425	14:10	2	1.000	A BB	410138.	250.000	NG OC	0.46
3	117	523	17:26	3	1.000	A BB	315776.	250.000	NG OC	0.46
4	65	258	8:36	1	1.380	A BV	65234.	386.922	NG OC	0.70
5	98	500	16:40	2	1.176	A BB	297110.	230.879	NG OC	0.42

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
6	95	616	20:32	3	1.178	A VB	384960.	405.543	NG OC	0.74
7	50	33	1:06	1	0.176	A BB	630247	5578.870	NG OC	10.16
8	94	47	1:34	1	0.251	A BB	4539.	20.879	NG OC	0.04
9	62	56	1:52	1	0.299	A VB	1740810.	12237.300	NG OC	22.28
10	64	69	2:18	1	0.369	A BB	18688.	228.113	NG OC	0.42
11	84	103	3:26	1	0.551	A BB	58826.	228.935	NG OC	0.42
12	43	124	4:08	1	0.663	A BV	1737740.	7521.170	NG OC	13.69
13	76	150	5:00	1	0.802	A BB	2163700.	3422.880	NG OC	6.23
14	96	183	6:06	1	0.979	A BB	17476.	87.832	NG OC	0.16
15	63	212	7:04	1	1.134	A BB	3628.	8.872	NG OC	0.02
16	96	229	7:38	1	1.225	A BB	14943.	55.294	NG OC	0.10
17	83	239	7:58	1	1.278	A BB	15692.	36.208	NG OC	0.07
18	62	260	8:40	1	1.390	A BV	21386.	93.849	NG OC	0.17
19	72	264	8:48	1	1.412	A VB	210021.	2007.340	NG OC	3.65
20	97	288	9:36	1	1.540	A BB	2867.	8.096	NG OC	0.01
21	43	306	10:12	1	1.636	A VV	311150.	338.323	NG OC	0.62
22	83	298	9:56	2	0.701	A BB	1475.	2.461	NG OC	0.00
23	83	311	10:22	2	0.732	A BV	93325.	155.691	NG OC	0.28
24	63	333	11:06	2	0.784	A VB	13746.	27.699	NG OC	0.05
25	75	338	11:16	2	0.795	A BB	7913.	14.499	NG OC	0.03
26	130	357	11:54	2	0.840	A BB	164838.	269.820	NG OC	0.49
27	139	367	12:14	2	0.864	A BB	1154.	1.804	NG OC	0.00
28	78	367	12:14	2	0.864	A BB	8478910.	5748.160	NG OC	10.47
29	75	367	12:14	2	0.864	A BB	831615.	1749.800	NG OC	3.19
30	63	394	13:08	1	2.107	A BB	4449.	107.670	NG OC	0.20
31	43	469	15:38	3	0.897	A BV	669370.	752.257	NG OC	1.37
32	43	438	14:36	2	1.031	A BV	174576.	149.081	NG OC	0.27
33	164	474	15:48	3	0.906	A BB	1124650.	1962.700	NG OC	3.57
34	83	465	15:30	3	0.889	A BV	61360.	74.495	NG OC	0.14
35	92	504	16:48	2	1.186	A BB	5310940.	4636.220	NG OC	8.44
36	112	526	17:32	3	1.006	A BV	2714350.	1801.430	NG OC	3.28
37	106	567	18:54	3	1.084	A BB	929216.	1344.460	NG OC	2.45
38	104	653	21:46	3	1.249	A BB	288019.	240.204	NG OC	0.44
39	106	678	22:36	3	1.296	A VB	1754410.	2240.330	NG OC	4.08


RIC
07/31/85 16:53:00
SAMPLE: R8474 VI-3 + 5UL IS/SURR #537 ON T-10 & TC504
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
Run
DATA: EQ286 #1
CALI: EQ286 #6
SCANS 1 TO 750
41
110
140
261
311
366
420
484
525
565
614
656
710
331
223
1024000
C-78
RIC
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

QUANTITATION REPORT FILE: EQ286

DATA: EQ286.TI
07/31/85 16:53:00 RUN
SAMPLE: R8474 VI-3 + 5UL IS/SURR #537 ON T-10 & TC504
SUBMITTED BY: EPA EMB ANALYST: AZ

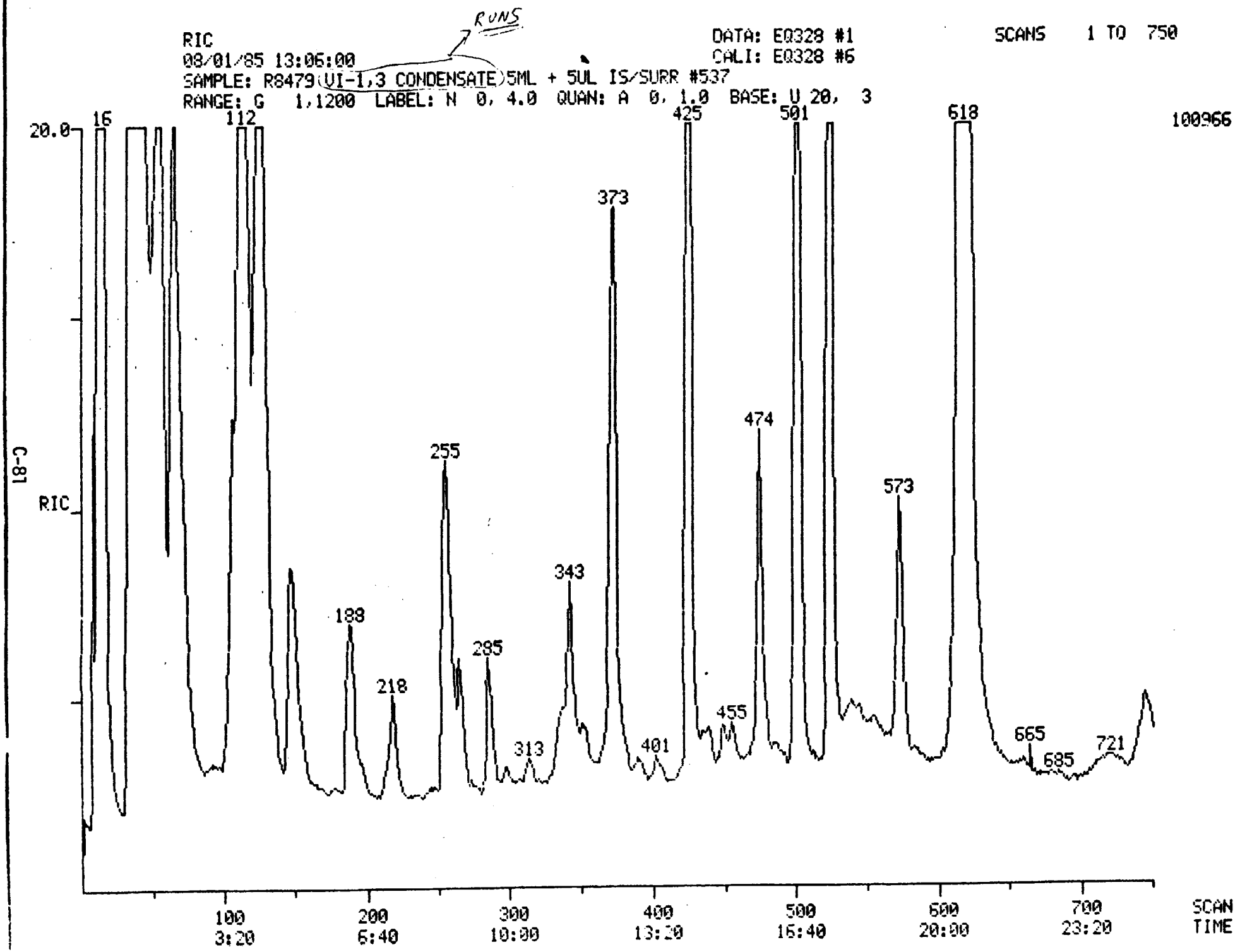
AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #1 D4-1,2-DICHLOROETHANE (65)
6	QC #2: D8-TOLUENE (98)
7	QC #3: 4-BROMOFLUOROBENZENE (95)
8	CHLOROMETHANE (50) *
9	BROMOMETHANE (94)
10	VINYL CHLORIDE (62) *
11	CHLOROETHANE (64)
12	METHYLENE CHLORIDE (84)
13	ACETONE (58)
14	CARBON DISULFIDE (76)
15	1,1-DICHLOROETHENE (96) *
16	1,1-DICHLOROETHANE (63)
17	TRANS-1,2-DICHLOROETHENE (96)
18	CHLOROFORM (83) *
19	1,2-DICHLOROETHANE (62)
20	2-BUTANONE (72)
21	1,1,1-TRICHLOROETHANE (97)
22	VINYL ACETATE (43)
23	BROMODICHLOROMETHANE (83)
24	1,2-DICHLOROPROPANE (63) *
25	TRANS-1,3-DICHLOROPROPENE (75)
26	TRICHLOROETHENE (130) $
27	DIBROMOCHLOROMETHANE (129)
28	BENZENE (78) $
29	CIS-1,3-DICHLOROPROPENE (75)
30	2-HEXANONE (43)
31	4-METHYL-2-PENTANONE (43)
32	TETRACHLOROETHENE (164)
33	1,1,2,2,-TETRACHLOROETHANE (83)
34	TOLUENE (92) * $
35	CHLOROBENZENE (112) * * $
36	ETHYLBENZENE (106) *
37	STYRENE (104)
38	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	186	6:12	1	1.000	A BB	22042.	250.000 NG OC	0.41
2	114	424	14:08	2	1.000	A BB	404522.	250.000 NG OC	0.41
3	117	523	17:26	3	1.000	A BB	333616.	250.000 NG OC	0.41
4	65	258	8:36	1	1.387	A BV	59893.	360.759 NG OC	0.59
5	65	267	8:54	1	1.435	A VB	13974.	84.173 NG OC	0.14
6	98	500	16:40	2	1.179	A BB	312252.	246.801 NG OC	0.40

6151

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
7	95	615	20:30	3	1.176	A VB	313600.	297.765	NG OC	0.49
8	50	33	1:06	1	0.177	A BB	689472.	5874.410	NG OC	9.62
9	94	47	1:34	1	0.253	A BB	2024.	8.832	NG OC	0.01
10	62	56	1:52	1	0.301	A VB	1903640.	12880.500	NG OC	21.10
11	64	69	2:18	1	0.371	A BB	42176.	495.525	NG OC	0.81
12	84	103	3:26	1	0.554	A BB	28151.	105.450	NG OC	0.17
13	43	123	4:06	1	0.661	A BB	2188730.	9118.120	NG OC	14.93
14	76	149	4:58	1	0.801	A BB	2370630.	3609.710	NG OC	5.91
15	96	182	6:04	1	0.978	A BB	16895.	81.730	NG OC	0.13
16	63	211	7:02	1	1.134	A BB	3634.	8.554	NG OC	0.01
17	96	228	7:36.	1	1.226	A BB	12854.	45.782	NG OC	0.07
18	83	238	7:56	1	1.280	A BB	14382.	31.942	NG OC	0.05
19	62	260	8:40	1	1.398	A BV	19192.	81.066	NG OC	0.13
20	72	263	8:46	1	1.414	A VB	258716.	2380.100	NG OC	3.90
21	97	287	9:34	1	1.543	A BB	2931.	7.966	NG OC	0.01
22	43	306	10:12	1	1.645	A BV	365098.	382.105	NG OC	0.63
23	83	310	10:20	2	0.731	A BV	107858.	182.434	NG OC	0.30
24	63	332	11:04	2	0.783	A BB	13119.	26.803	NG OC	0.04
25	75	337	11:14	2	0.795	A BB	6500.	12.075	NG OC	0.02
26	130	356	11:52	2	0.840	A BB	163825.	271.885	NG OC	0.45
27	129	365	12:10	2	0.861	A BB	1199.	1.901	NG OC	0.00
28	78	365	12:10	2	0.861	A BB	8669050.	5958.650	NG OC	9.76
29	76	366	12:12	2	0.863	A BB	833030.	1777.110	NG OC	2.91
30	43	469	15:38	3	0.897	A BV	837856.	891.255	NG OC	1.46
31	43	438	14:36	2	1.033	A BV	167056.	144.640	NG OC	0.24
32	164	473	15:46	3	0.904	A BB	1098690.	1814.870	NG OC	2.97
33	83	464	15:28	3	0.887	A BB	73104.	84.006	NG OC	0.14
34	92	502	16:44	2	1.184	A BB	5449930.	4823.610	NG OC	7.90
35	112	525	17:30	3	1.004	A BV	2822340.	1772.940	NG OC	2.90
36	106	567	18:54	3	1.084	A BB	1024280.	1402.750	NG OC	2.30
37	104	656	21:52	3	1.254	A BV	87797.	69.306	NG OC	0.11
38	106	657	21:54	3	1.256	M ZZ	4112930.	4971.240	NG OC	8.14


RUNS
RIC
08/01/85 13:06:00
SAMPLE: R8479 UI-1,3 CONDENSATE 5ML + 5UL IS/SURR #537
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
DATA: EQ328 #1
CALI: EQ328 #6
SCANS 1 TO 750
100966
20.0
RIC
C-81
16
112
188
218
255
285
313
343
373
401
425
455
474
501
573
618
665
685
721
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

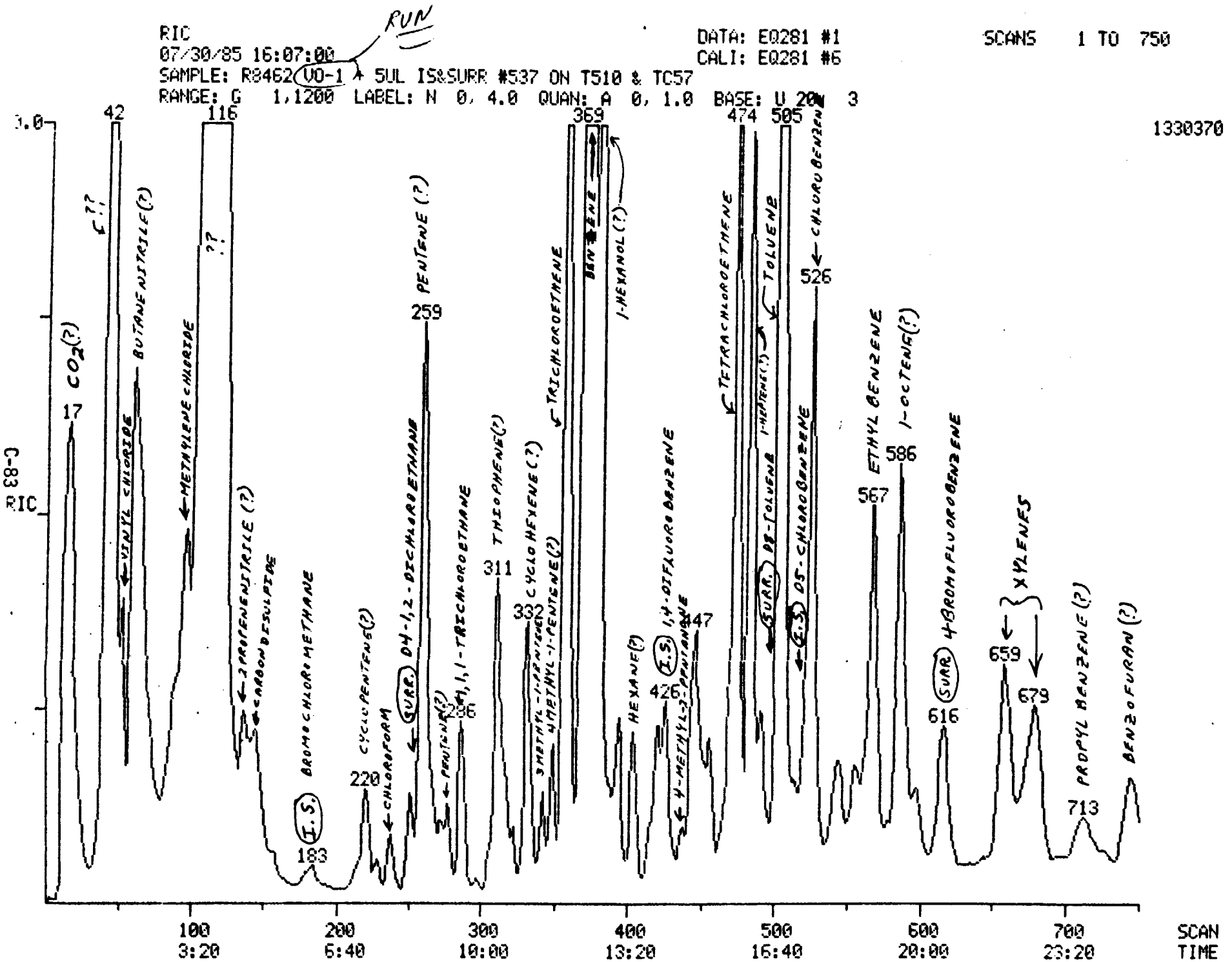
QUANTITATION REPORT FILE: EQ328

DATA: EQ328.TI
08/01/85 13:06:00
SAMPLE: R8479 VI-1,3 CONDENSATE 5ML + 5UL IS/SURR #537
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
7	METHYLENE CHLORIDE (84)
8	ACETONE (43)
9	CARBON DISULFIDE (76)
10	2-BUTANONE (72)
11	BENZENE (78) $
12	2-HEXANONE (43)
13	4-METHYL-2-PENTANONE (43)
14	1,1,2,2,-TETRACHLOROETHANE (83)
15	TOLUENE (92) * $
16	CHLOROBENZENE (112) * * $
17	STYRENE (104)
18	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	188	6:16	1	1.000	A BB	20303.	250.000	NG OC	1.93
2	114	425	14:10	2	1.000	A BB	424196.	250.000	NG OC	1.93
3	117	524	17:28	3	1.000	A BB	330646.	250.000	NG OC	1.93
4	65	259	8:38	1	1.378	A BB	33065.	198.304	NG OC	1.53
5	98	501	16:42	2	1.179	A BB	344472.	255.090	NG OC	1.97
6	95	617	20:34	3	1.177	A BB	296834.	251.209	NG OC	1.94
7	84	104	3:28	1	0.553	A BB	7979.	32.171	NG OC	0.25
8	43	125	4:10	1	0.665	A BB	649808.	10949.600	NG OC	84.69
9	76	154	5:08	1	0.819	A BB	5907.	8.865	NG OC	0.07
10	72	265	8:50	1	1.410	A VB	7621.	338.807	NG OC	2.62
11	78	373	12:26	2	0.878	A BB	51225.	31.877	NG OC	0.25
12	43	474	15:48	3	0.905	A BV	32080.	79.857	NG OC	0.62
13	43	439	14:38	2	1.033	A VV	7217.	12.130	NG OC	0.09
14	83	467	15:34	3	0.891	A BV	1235.	1.138	NG OC	0.01
15	92	502	16:44	2	1.181	A BB	17723.	15.143	NG OC	0.12
16	112	526	17:32	3	1.004	A BB	2011.	1.330	NG OC	0.01
17	104	655	21:50	3	1.250	A VB	1393.	1.001	NG OC	0.01
18	106	678	22:36	3	1.294	A BB	1977.	2.354	NG OC	0.02


RIC
07/30/85 16:07:00
RUN
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20
DATA: EQ281 #1
CALI: EQ281 #6
SCANS 1 TO 750
1330370
C-83 RIC
CO2(?)
VINYL CHLORIDE
BUTANENITRILE(?)
METHYLENE CHLORIDE
PROPENENITRILE (?)
CARBON DISULFIDE
BROMOCHLOROMETHANE
I.S.
CYCLOPENTENE(?)
CHLOROFORM
SURR.
D4-1,2-DICHLOROETHANE
PENTENE (?)
PENTENE(?)
1,1,1-TRICHLOROETHANE
THEOPHENE(?)
CYCLOHEXENE(?)
3METHYL-1,2-PENTADIENE
4METHYL-1-PENTENE(?)
TRICHLOROETHENE
BENZENE
1-HEXANOL(?)
HEXANE(?)
I.S.
1,4-DIFLUOROBENZENE
4-METHYL-2-PENTANONE
TETRACHLOROETHENE
SURR.
D8-TOLUENE
1-HEPTENE(?)
TOLUENE
I.S.
D5-CHLOROBENZENE
CHLOROBENZENE
ETHYL BENZENE
1-OCTENE(?)
SURR.
4-BROMOFLUOROBENZENE
XYLENES
PROPYL BENZENE(?)
BENZOFURAN(?)
17
42
116
183
220
259
311
333
369
426
447
474
505
526
567
586
616
659
679
713
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

QUANTITATION REPORT FILE: EQ281

DATA: EQ281.TI
07/30/85 16:07:00
SAMPLE: R8462 (VO-1) + 5UL IS&SURR #537 ON T510 & TC57
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
7	CHLOROMETHANE (50) * * possible
8	BROMOMETHANE (94)
9	VINYL CHLORIDE (62) *
10	CHLOROETHANE (64)
11	METHYLENE CHLORIDE (84)
12	ACETONE (43)
13	CARBON DISULFIDE (76)
14	1,1-DICHLOROETHENE (96) * $
15	1,1-DICHLOROETHANE (63)
16	TRANS-1,2-DICHLOROETHENE (96)
17	CHLOROFORM (83) *
18	1,2-DICHLOROETHANE (62)
19	2-BUTANONE (72)
20	1,1,1-TRICHLOROETHANE (97)
21	VINYL ACETATE (43)
22	BROMODICHLOROMETHANE (83)
23	1,2-DICHLOROPROPANE (63) *
24	TRANS-1,3-DICHLOROPROPENE (75)
25	TRICHLOROETHENE (130) $
26	DIBROMOCHLOROMETHANE (129)
27	BENZENE (78) $
28	CIS-1,3-DICHLOROPROPENE (75)
29	2-CHLOROETHYL VINYL ETHER (63)
30	BROMOFORM (173) * *
31	2-HEXANONE (43)
32	4-METHYL-2-PENTANONE (43)
33	TETRACHLOROETHENE (164)
34	1,1,2,2,-TETRACHLOROETHANE (83)
35	TOLUENE (92) * $
36	CHLOROBENZENE (112) * * $
37	ETHYLBENZENE (106) *
38	STYRENE (104)
39	TOTAL XYLENES (106)

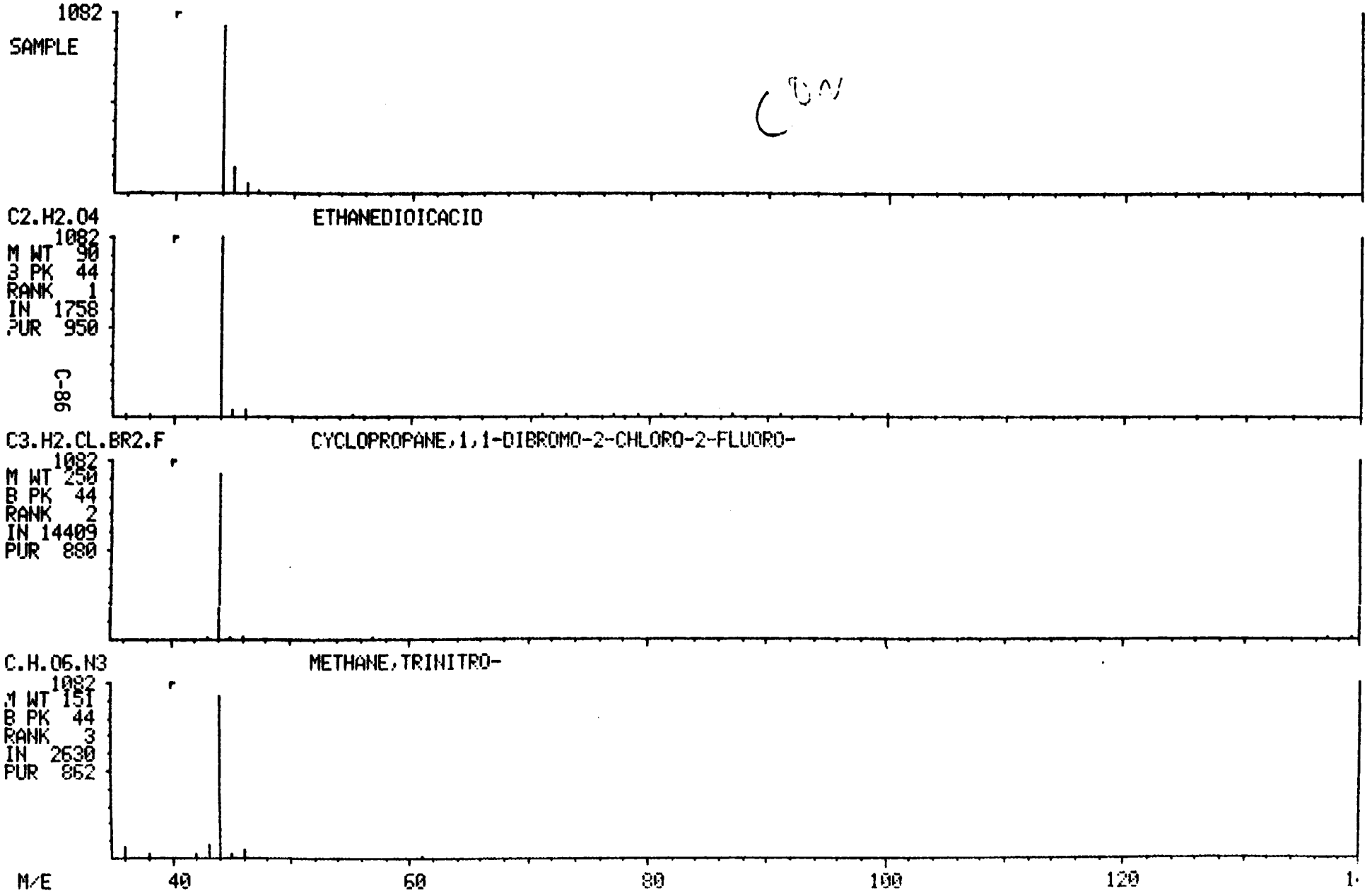
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	183	6:06	1	1.000	A BB	28711	250.000 NG OC	0.88
2	114	426	14:12	2	1.000	A BB	478384	250.000 NG OC	0.88
3	117	524	17:28	3	1.000	A BB	324577	250.000 NG OC	0.88
4	65	257	8:34	1	1.404	A BV	59870	265.020 NG OC	0.93
5	98	501	16:42	2	1.176	A BB	345275	231.223 NG OC	0.81

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
6	95	617	20 34	3	1.177	A VB	325308.	334.757	NG OC	1.18
7	50	32	1:04	1	0.175	A BV	22190.	149.894	NG OC	0.53
8	94	45	1:30	1	0.246	A BB	1480.	5.223	NG OC	0.02
9	62	53	1:46	1	0.290	A BB	879036.	4789.760	NG OC	16.84
10	64	65	2:10	1	0.355	A VB	4078.	37.021	NG OC	0.13
11	84	97	3:14	1	0.530	A BB	552095.	1616.640	NG OC	5.68
12	43	133	4:26	1	0.727	A BB	117920.	313.543	NG OC	1.10
13	76	146	4:52	1	0.798	A BB	954830.	1154.360	NG OC	4.06
14	96	178	5:56	1	0.973	A BB	23677.	92.545	NG OC	0.33
15	63	208	6:56	1	1.137	A BV	18224.	34.572	NG OC	0.12
16	96	228	7:36	1	1.246	A BB	36922.	105.947	NG OC	0.37
17	83	237	7:54	1	1.295	A BB	245218.	433.586	NG OC	1.52
18	62	258	8:36	1	1.410	A BB	180032.	619.210	NG OC	2.18
19	72	263	8:46	1	1.437	A VB	90623.	530.232	NG OC	1.86
20	97	286	9:32	1	1.563	A BB	340359.	705.744	NG OC	2.48
21	43	306	10:12	1	1.672	A VV	240456.	217.609	NG OC	0.76
22	83	304	10:08	2	0.714	A BV	31226.	49.351	NG OC	0.17
23	63	339	11:18	2	0.796	A VB	9722.	18.045	NG OC	0.06
24	75	338	11:16	2	0.793	A BV	1462.	2.467	NG OC	0.01
25	130	357	11:54	2	0.838	A BB	2047210.	2903.400	NG OC	10.21
26	129	363	12:06	2	0.852	A BB	18784.	26.366	NG OC	0.09
27	78	370	12:20	2	0.869	A BB	7162000.	4216.890	NG OC	14.82
28	75	370	12:20	2	0.869	A BB	640396.	1249.500	NG OC	4.39
29	63	394	13:08	1	2.153	A BB	1103.	26.882	NG OC	0.09
30	173	420	14:00	2	0.986	A BB	1121.	2.992	NG OC	0.01
31	43	470	15:40	3	0.897	A BV	509600.	476.835	NG OC	1.68
32	43	438	14:36	2	1.028	A BV	222312.	142.277	NG OC	0.50
33	164	474	15:48	3	0.905	A BB	1070470.	1782.320	NG OC	6.27
34	83	467	15:34	3	0.891	A BV	29004.	33.613	NG OC	0.12
35	92	505	16:50	2	1.185	A BB	3984280.	2963.410	NG OC	10.42
36	112	526	17:32	3	1.004	A BB	1407940.	898.296	NG OC	3.16
37	106	568	18:56	3	1.084	A BB	397535.	563.235	NG OC	1.98
38	104	654	21:48	3	1.248	A BB	38215.	31.649	NG OC	0.11
39	106	680	22:40	3	1.298	A VB	533310.	672.761	NG OC	2.36

LIBRARY SEARCH
07/30/85 16:07:00 + 0:34
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 17
CALI: EQ281 # 6

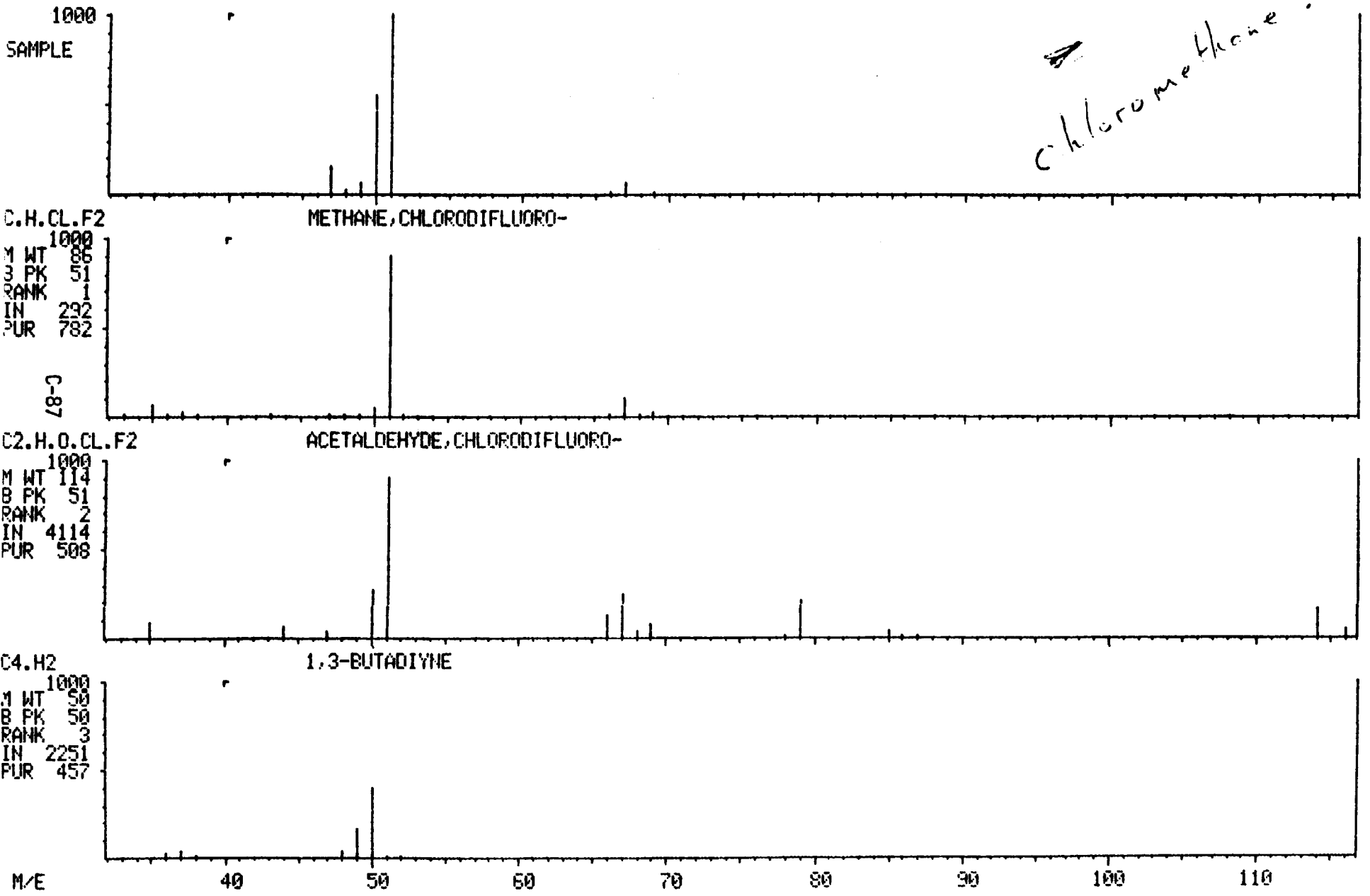
BASE M/E: 44
RIC: 711679.



LIBRARY SEARCH
07/30/85 16:07:00 + 1:04
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 32
CALI: E0281 # 6

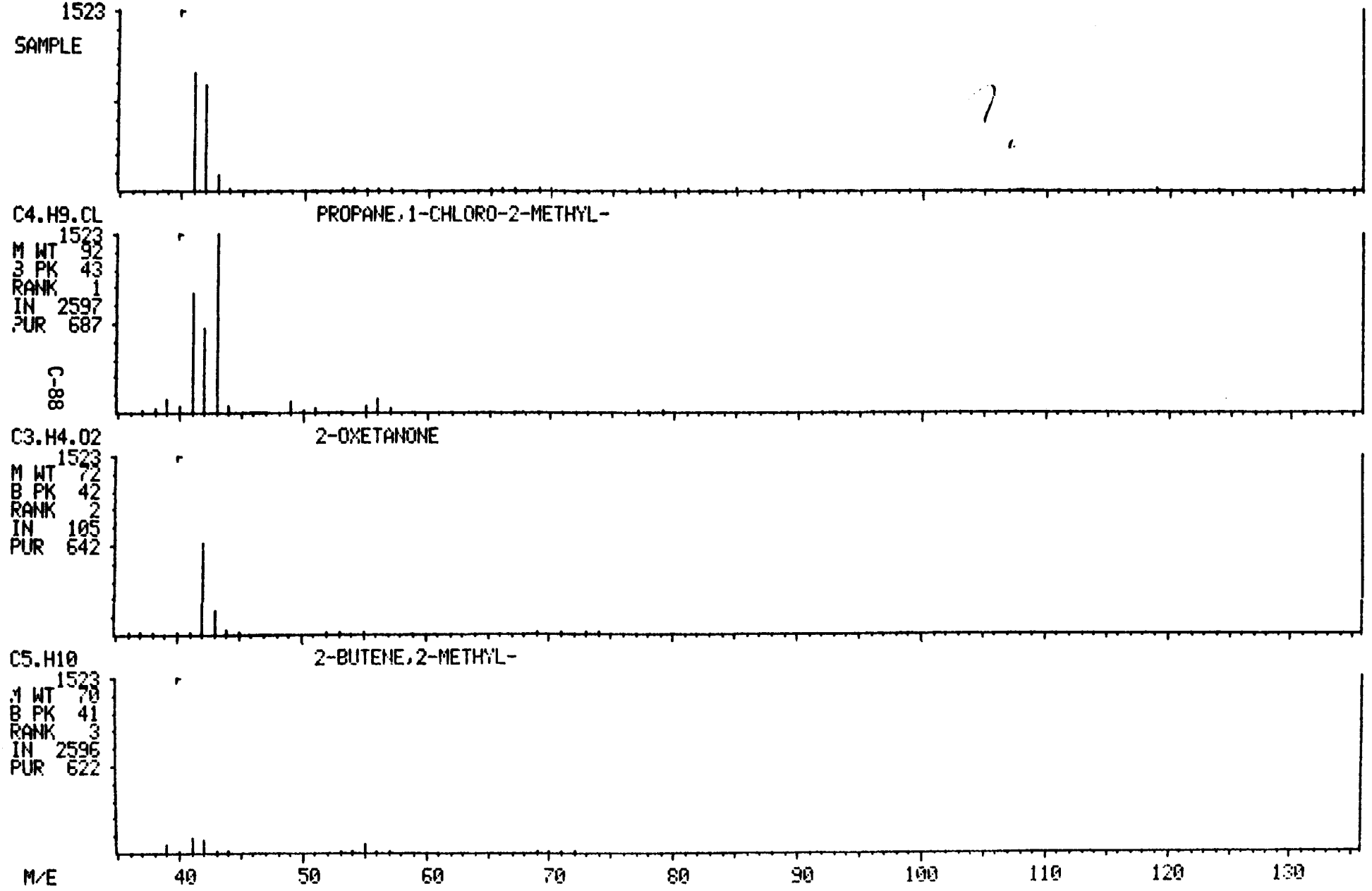
BASE M/E: 51
RIC: 16543.



LIBRARY SEARCH
07/30/85 16:07:00 + 1:26
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 43
CALI: E0281 # 6

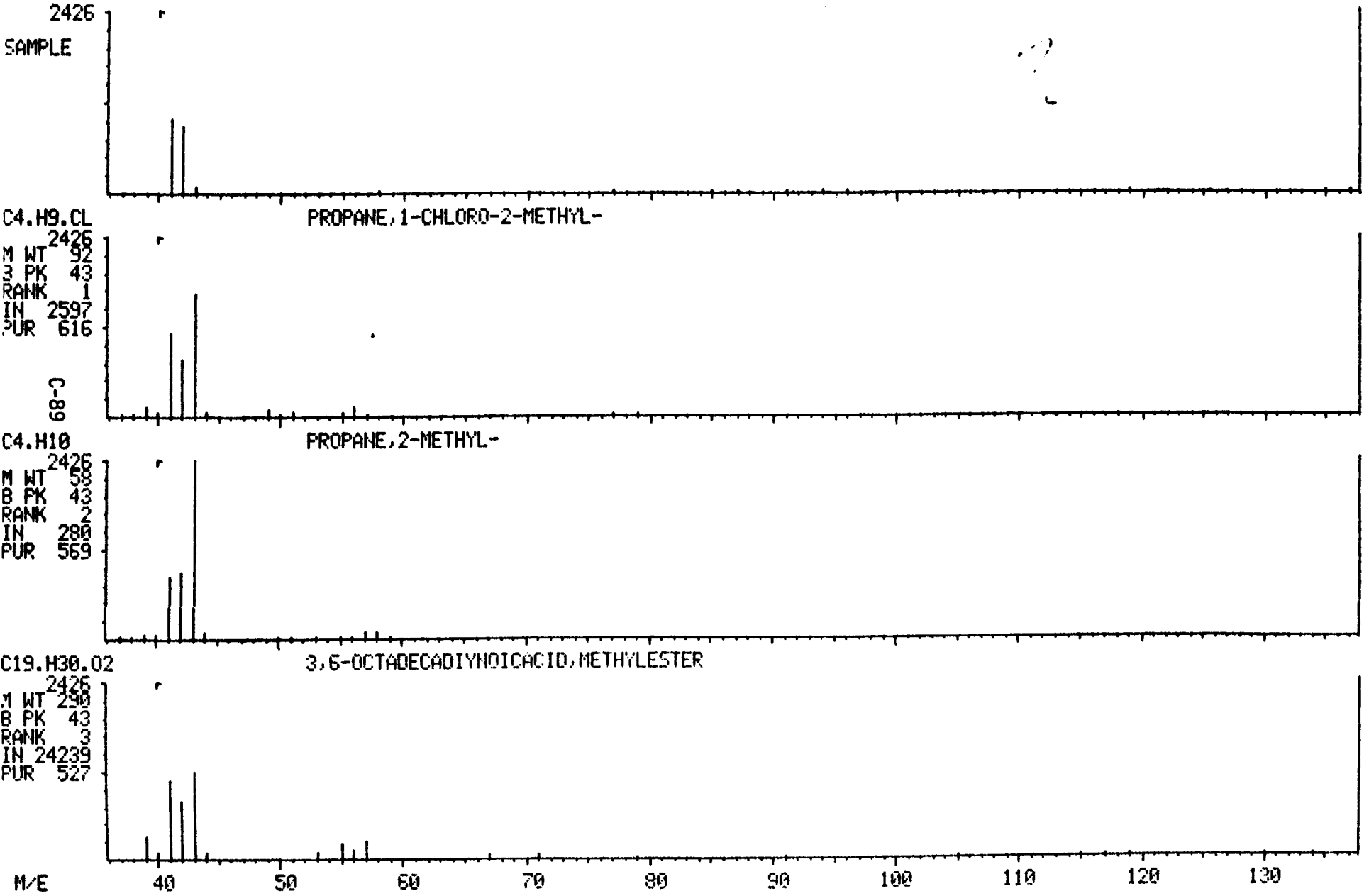
BASE M/E: 41
PIC: 1232890.



LIBRARY SEARCH
07/30/85 16:07:00 + 1:30
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 45
CALI: E0281 # 6

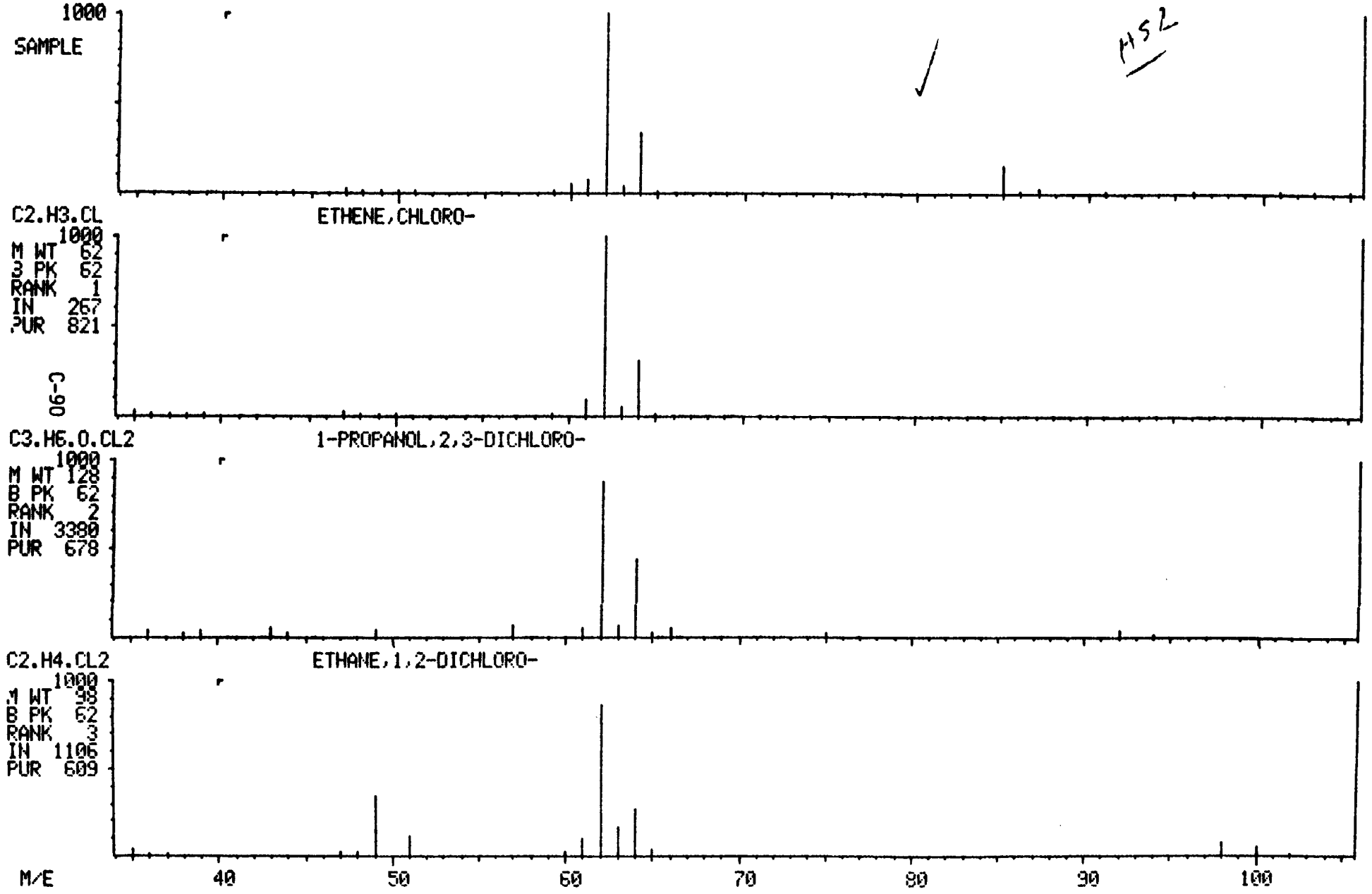
BASE M/E: 41
RIC: 1126390.



LIBRARY SEARCH
07/30/85 16:07:00 + 1:46
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 53
CALI: EQ281 # 6

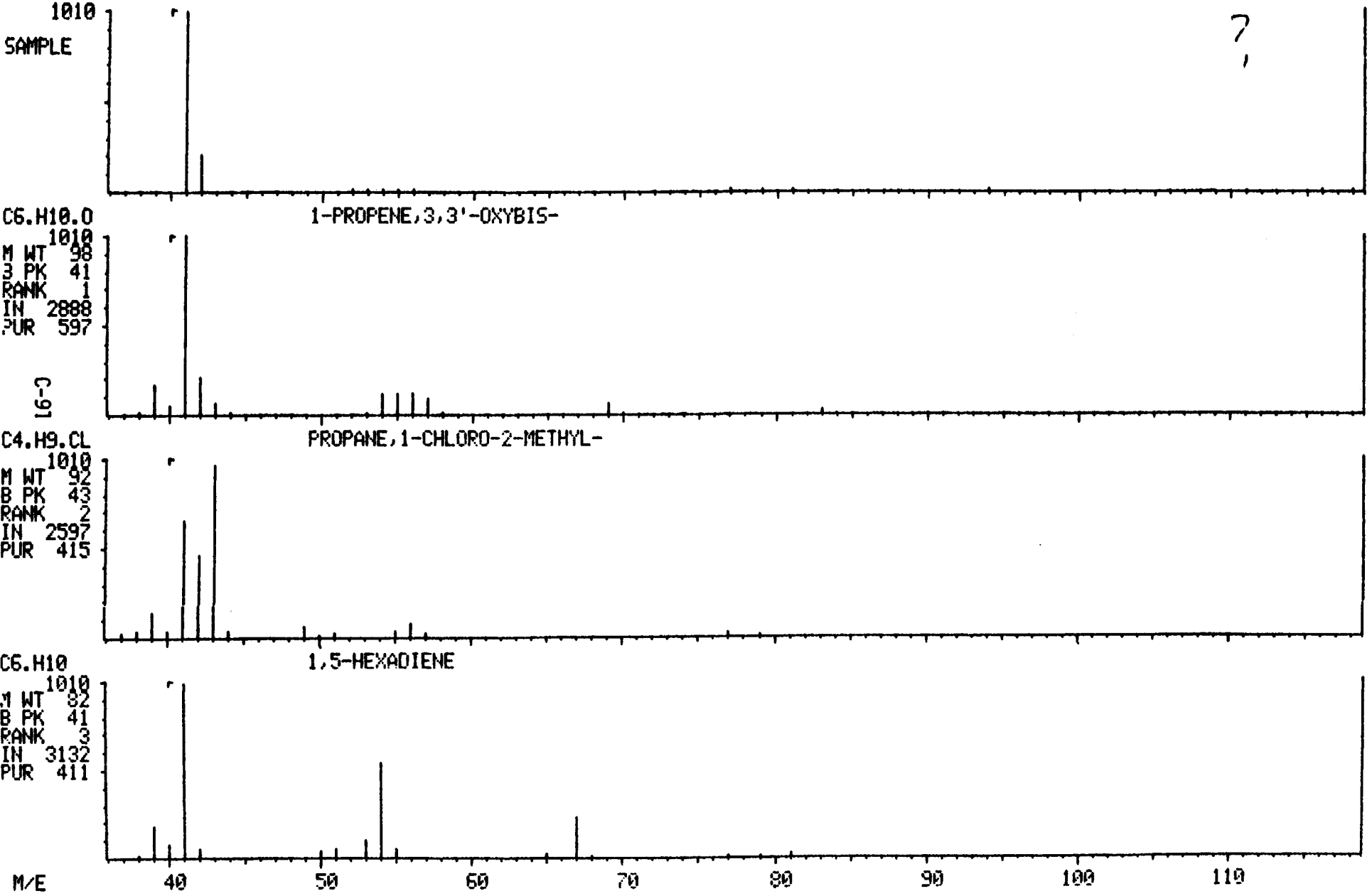
BASE M/E: 62
RIC: 324095.



LIBRARY SEARCH
07/30/85 16:07:00 + 2:02
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 61
CALI: E0281 # 6

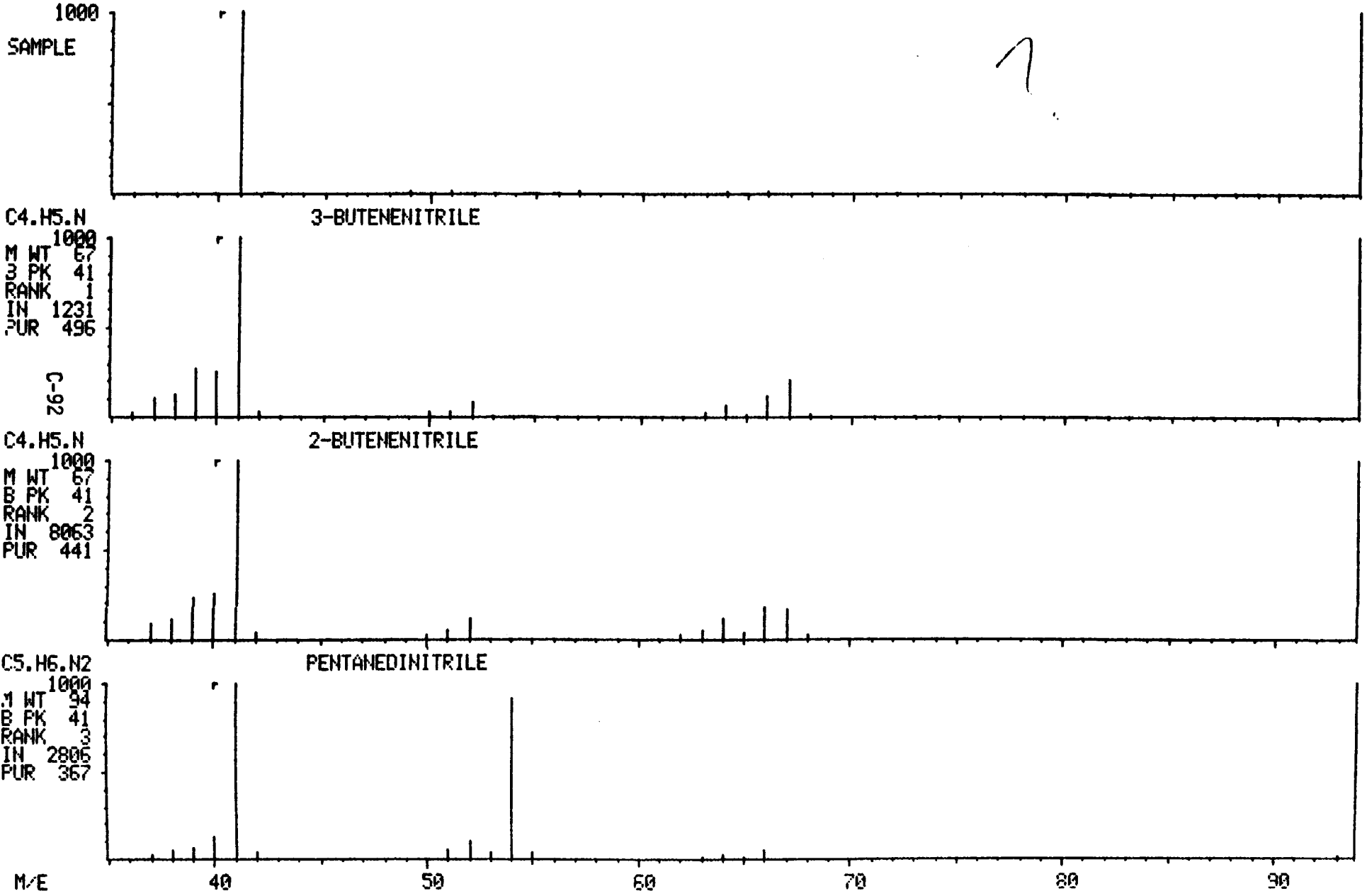
BASE M/E: 41
RIC: 613519.



LIBRARY SEARCH
07/30/85 16:07:00 + 2:10
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 65
CALI: E0281 # 6

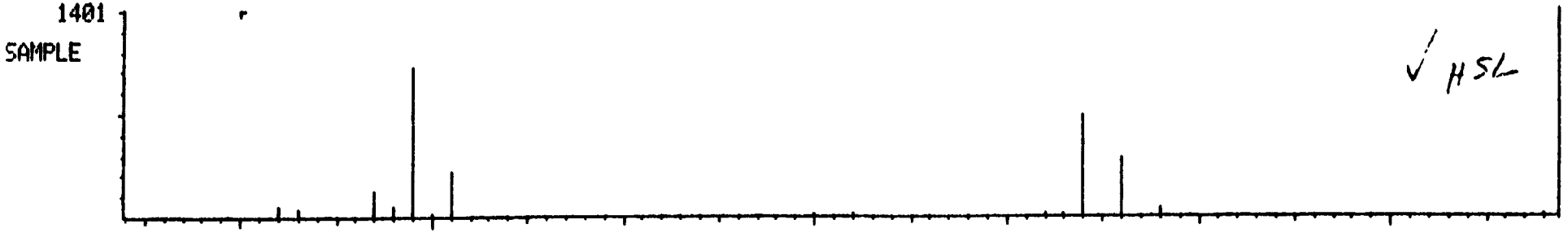
BASE M/E: 41
RIC: 177151.



LIBRARY SEARCH
07/30/85 16:07:00 + 3:14
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

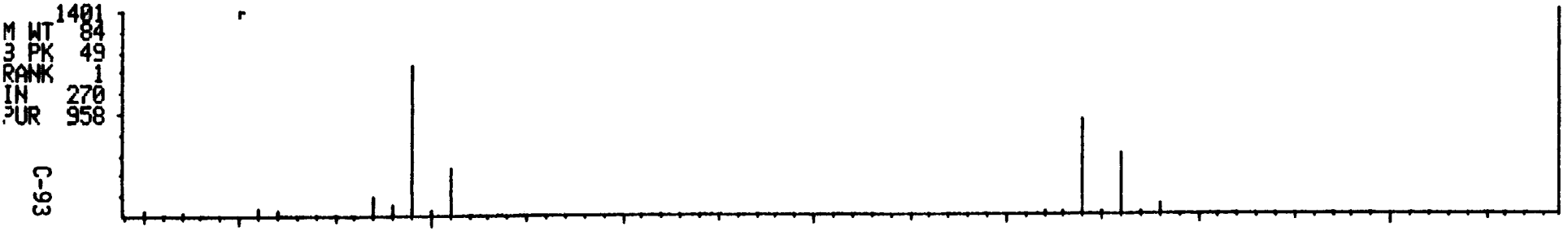
DATA: E0281 # 97
CALI: E0281 # 6

BASE M/E: 49
RIC: 260863.



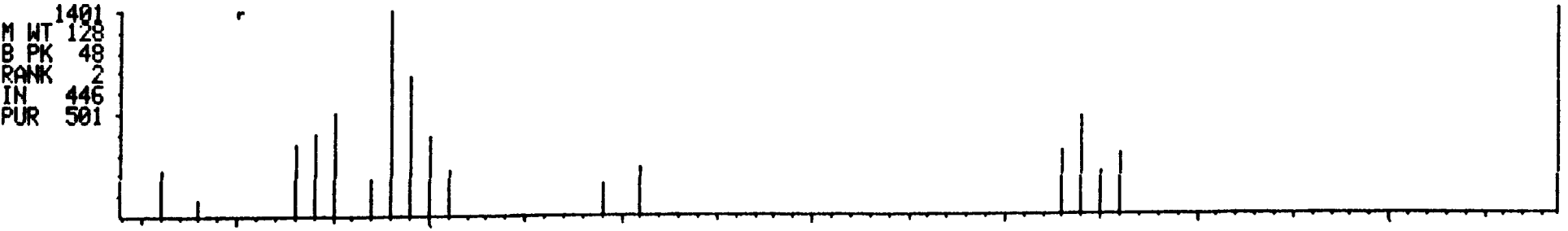
√ HSL

C.H2.CL2 METHANE,DICHLORO-

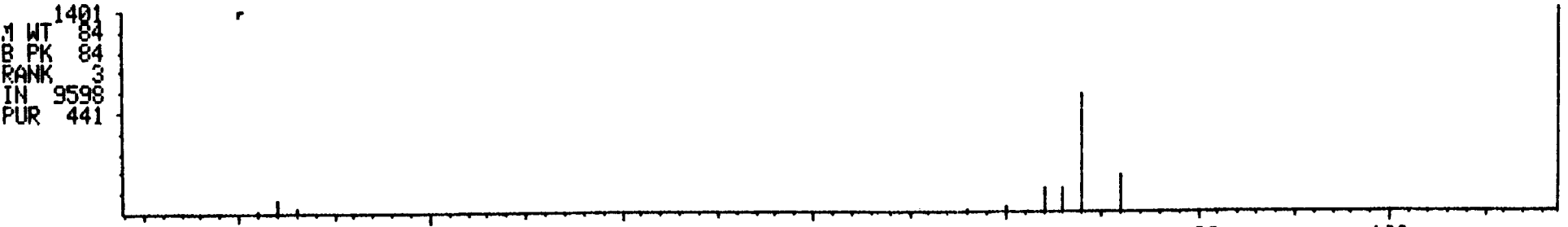


C-93

C2.H2.O2.CL2 ACETICACID,DICHLORO-



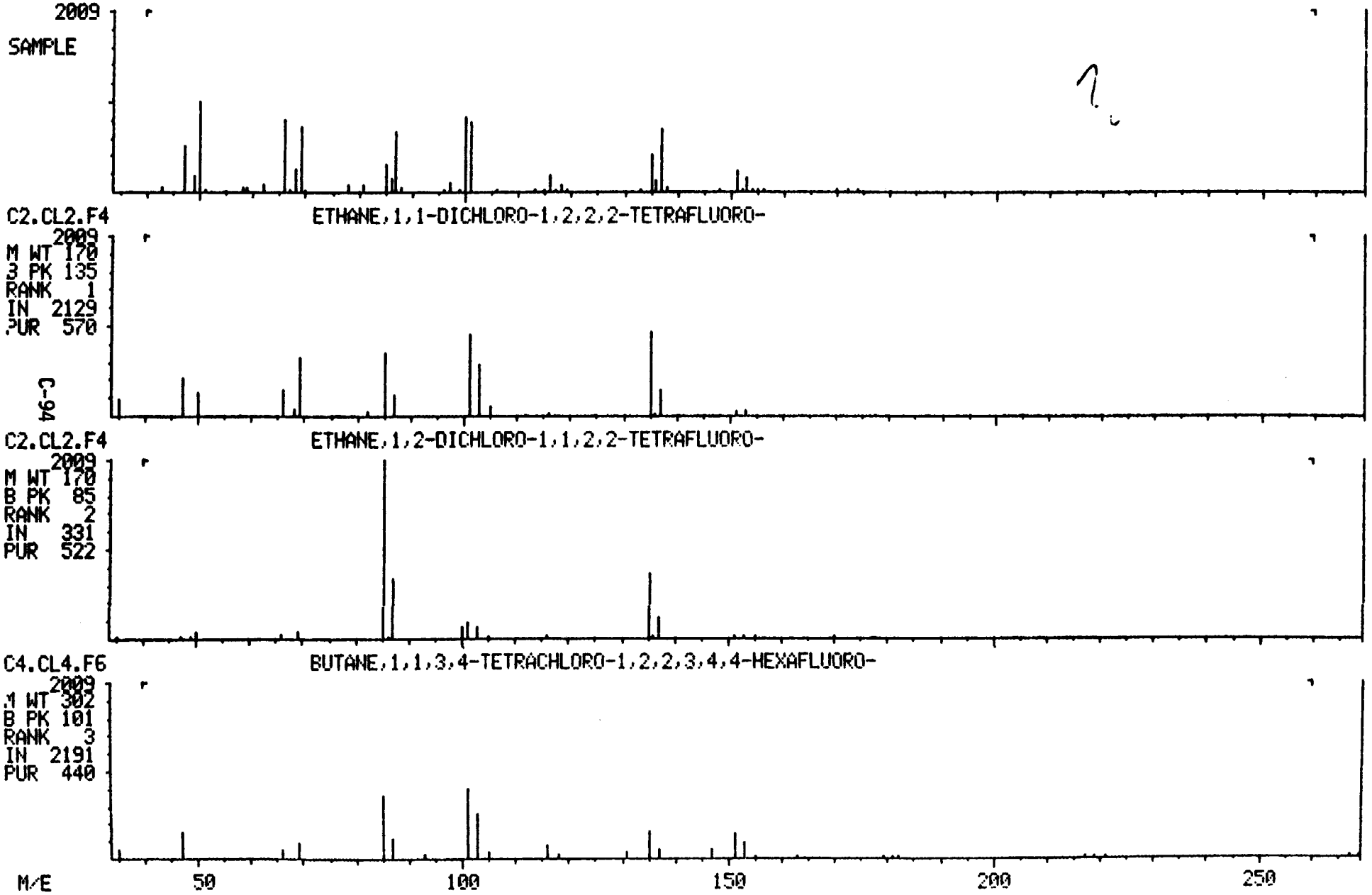
.KR KRYPTON



LIBRARY SEARCH
07/30/85 16:07:00 + 3:50
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 115
CALI: EQ281 # 6

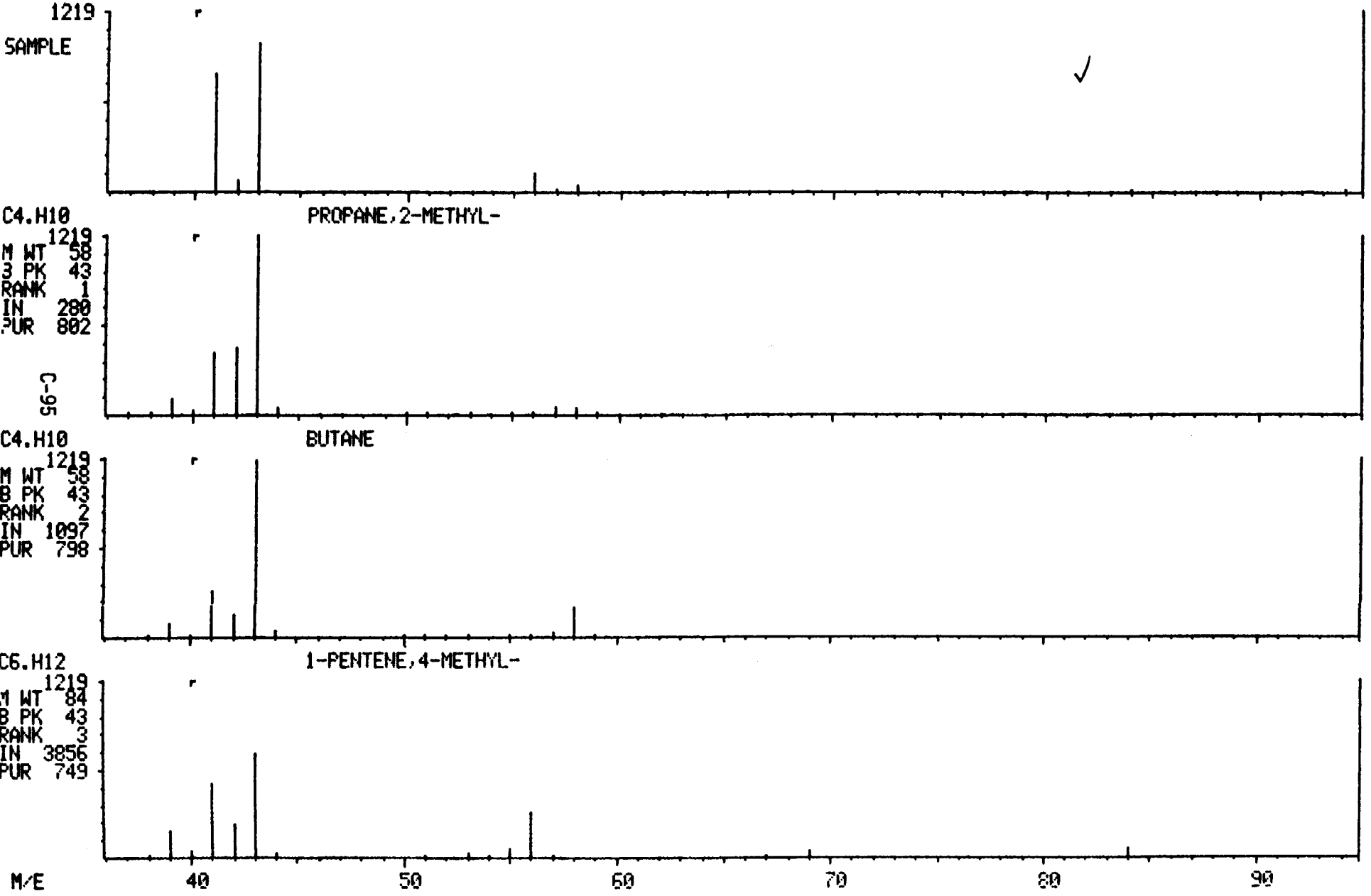
BASE M/E: 50
RIC: 3174390.



LIBRARY SEARCH
07/30/85 16:07:00 + 4:26
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 133
CALI: EQ281 # 6

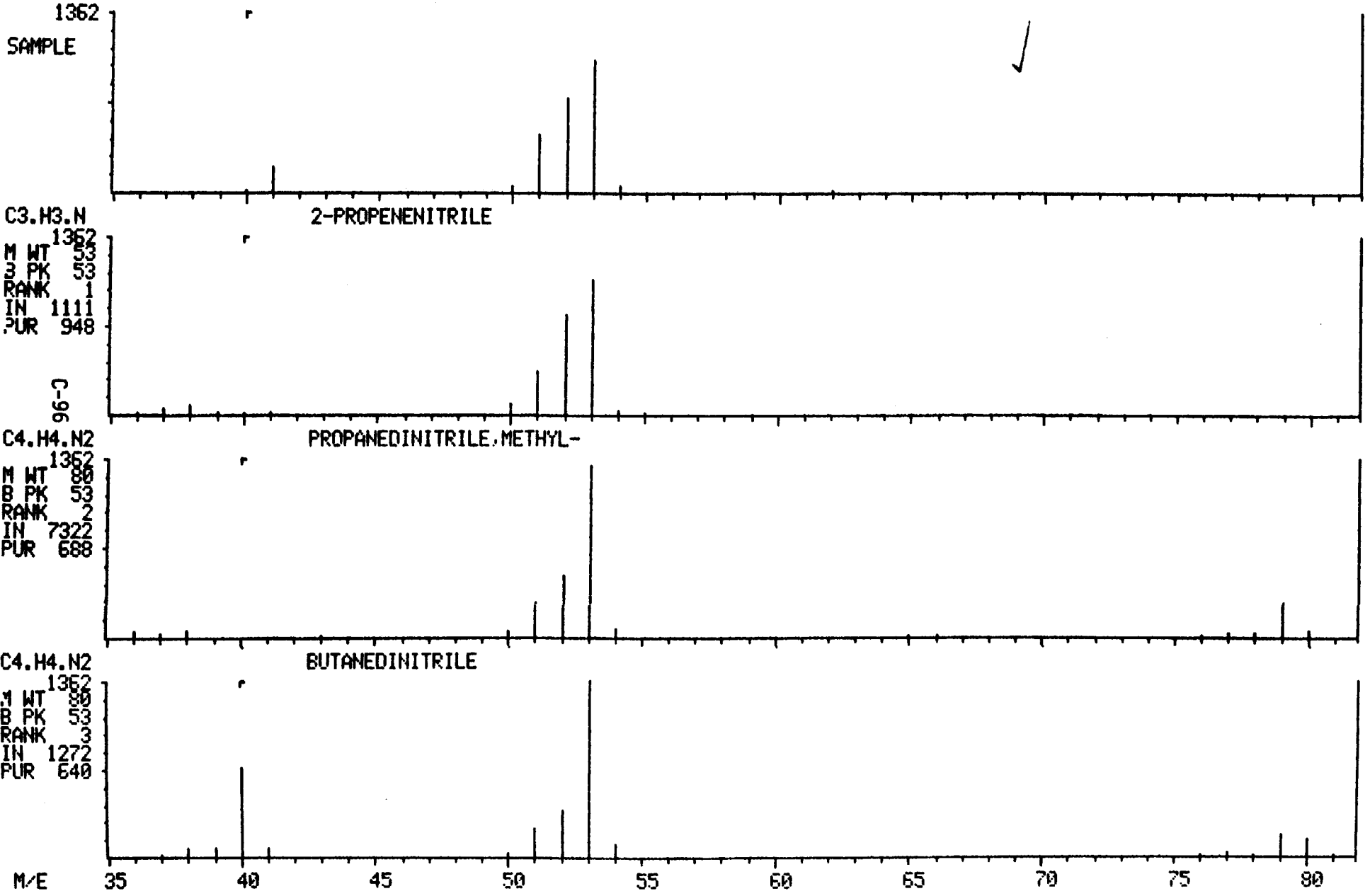
BASE M/E: 43
RIC: 40063.



LIBRARY SEARCH
07/30/85 16:07:00 + 4:32
SAMPLE: R8462 VO-1 + SUL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 136
CALI: EQ281 # 6

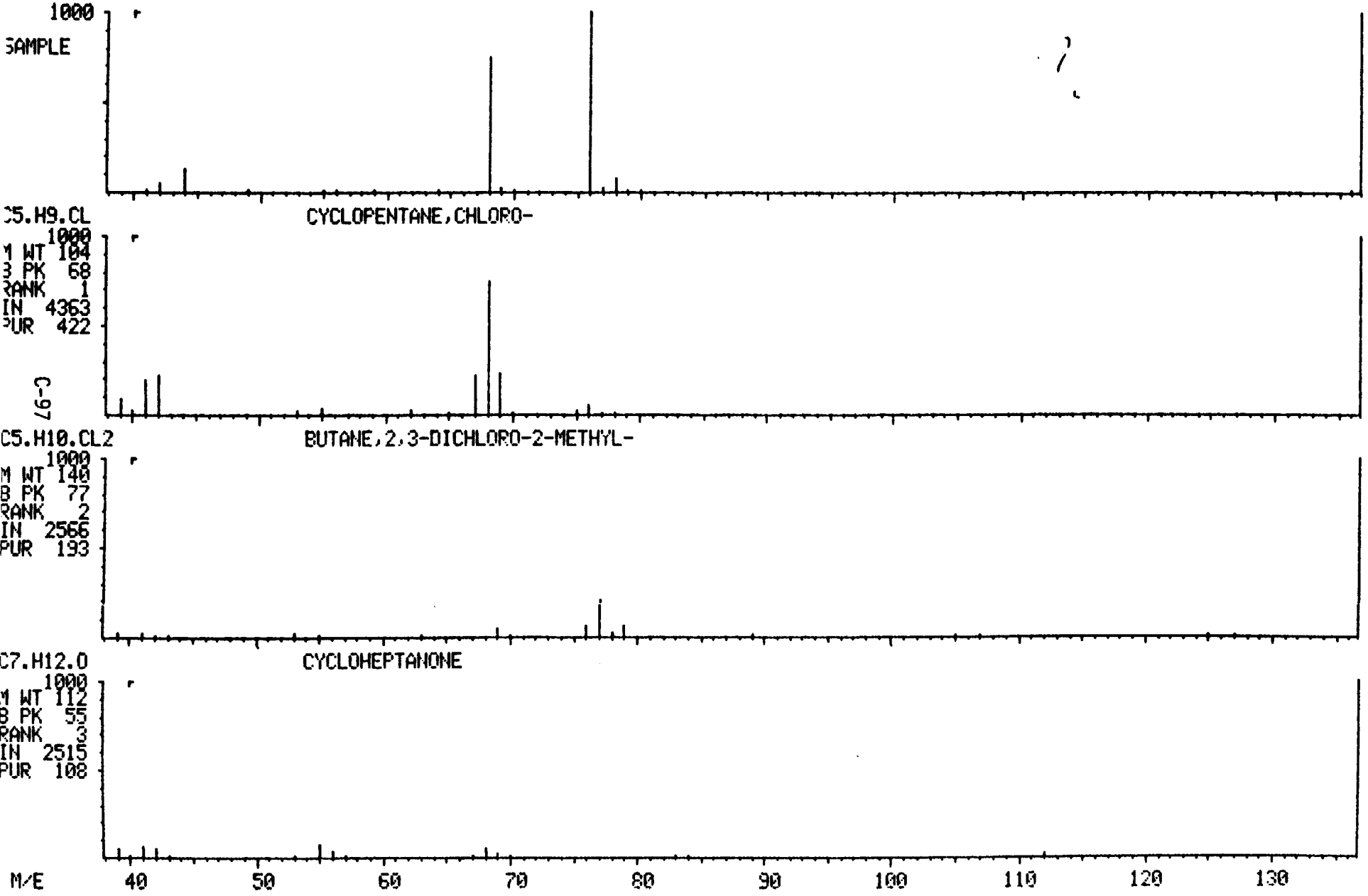
BASE M/E: 53
RIC: 153087.



LIBRARY SEARCH
07/30/85 16:07:00 + 4:48
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 144
CALI: EQ281 # 6

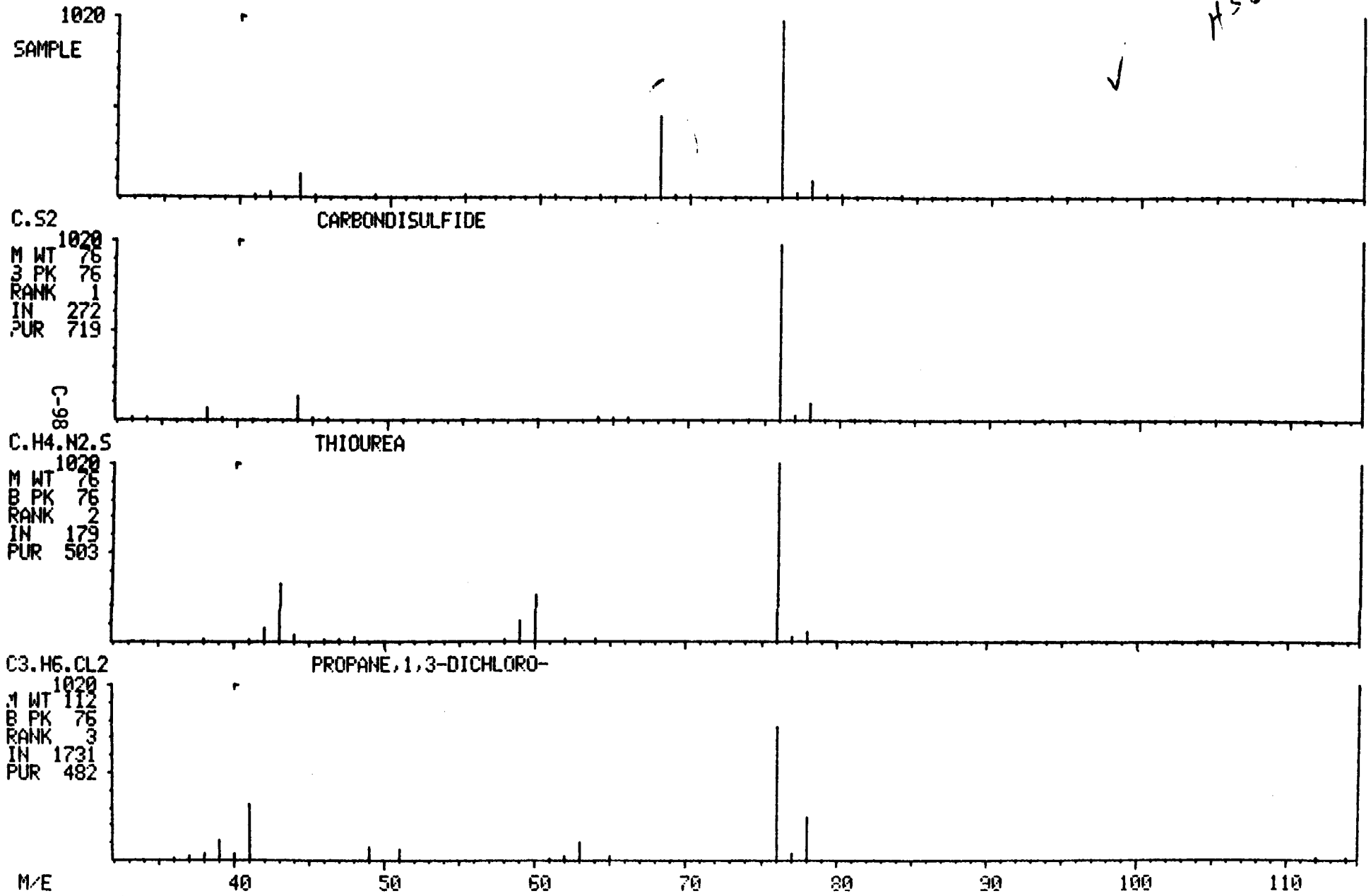
BASE M/E: 76
RIC: 145663.



LIBRARY SEARCH
07/30/85 16:07:00 + 4:52
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 146
CALI: E0281 # 6

BASE M/E: 76
RIC: 146687.

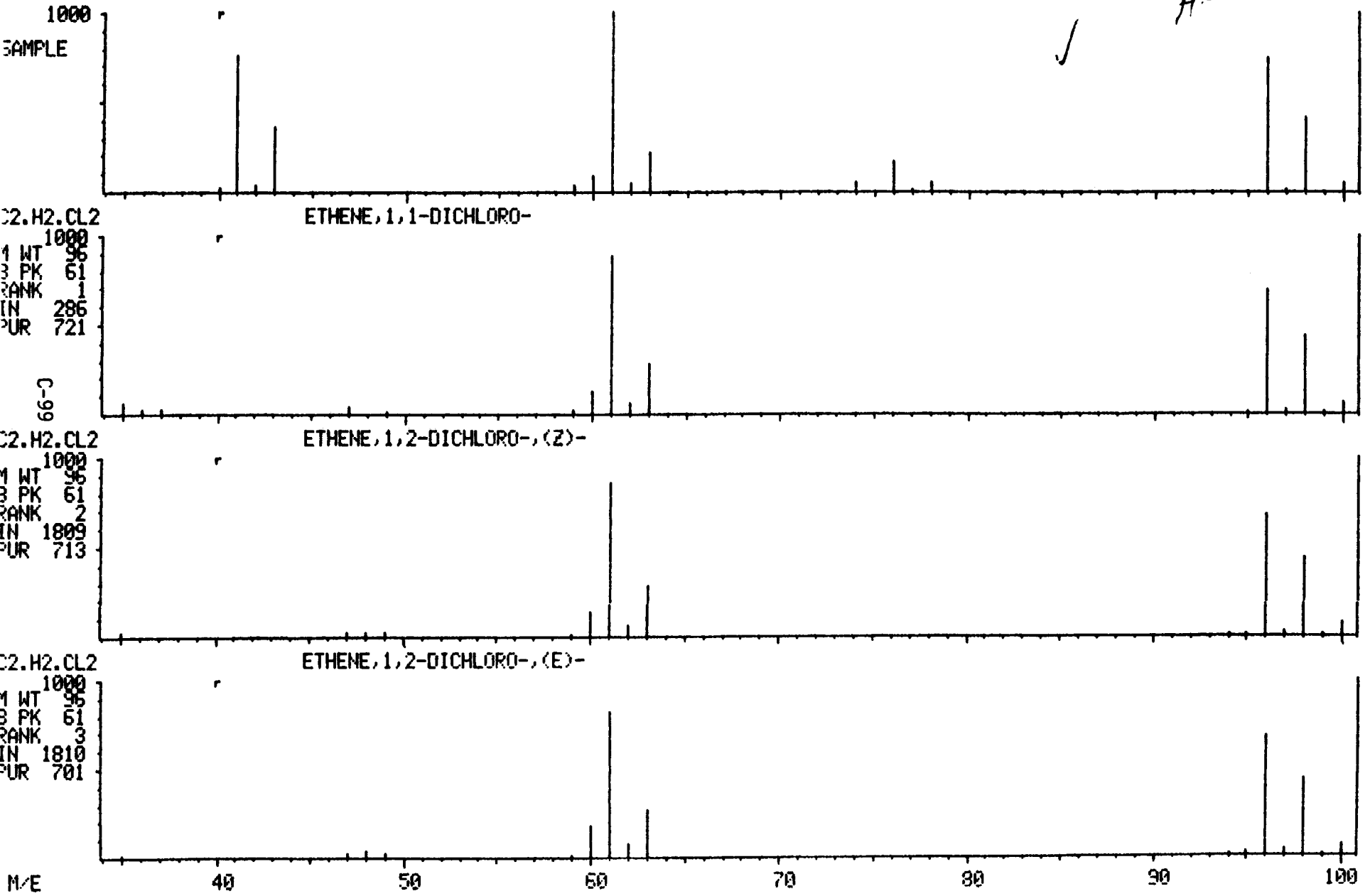


LIBRARY SEARCH
07/30/85 16:07:00 + 5:56
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 178
CALI: EQ281 # 6

BASE M/E: 61
RIC: 20863.

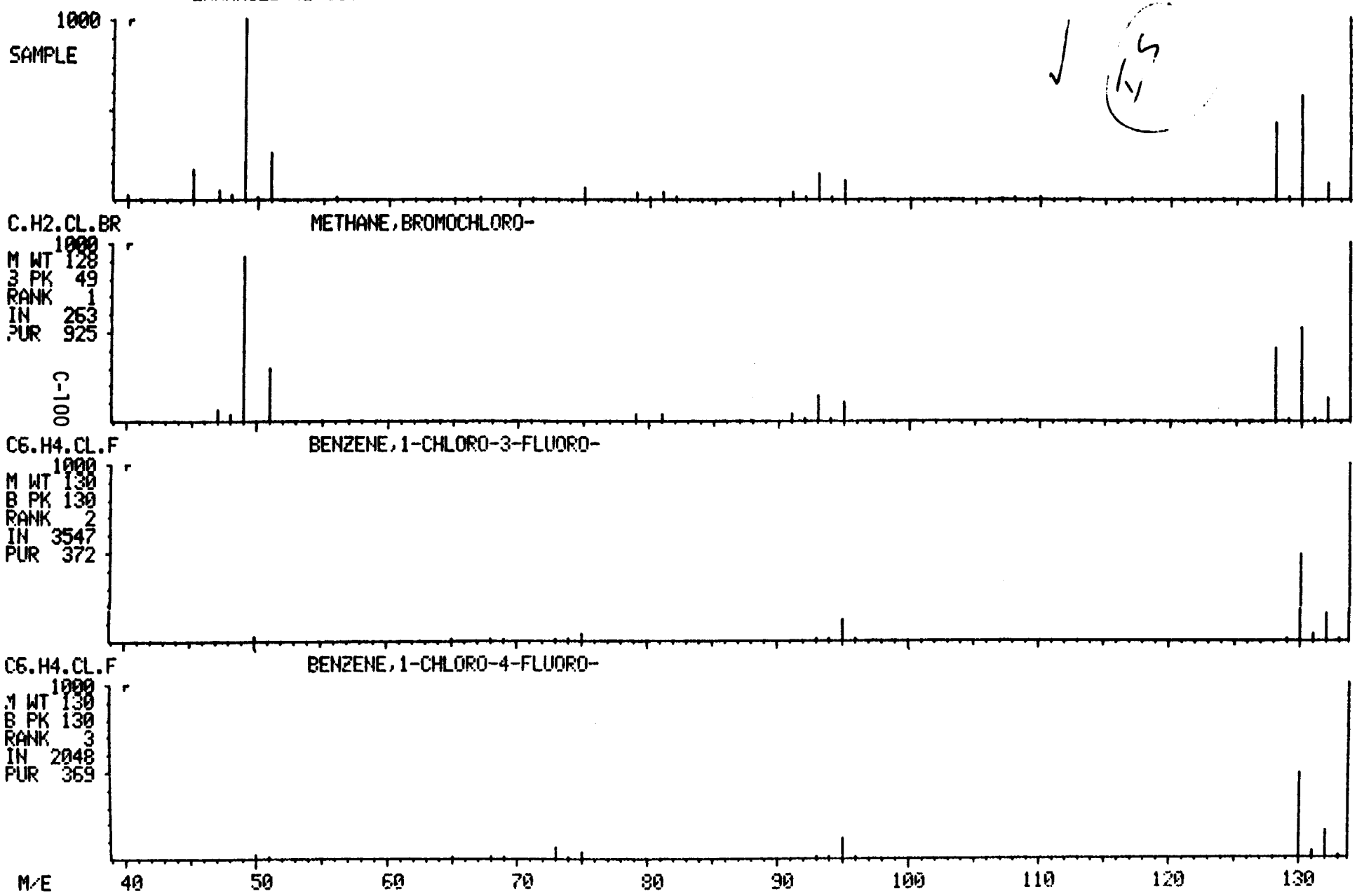
H.S.L



LIBRARY SEARCH
07/30/85 16:07:00 + 6:06
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 183
CALI: E0281 # 6

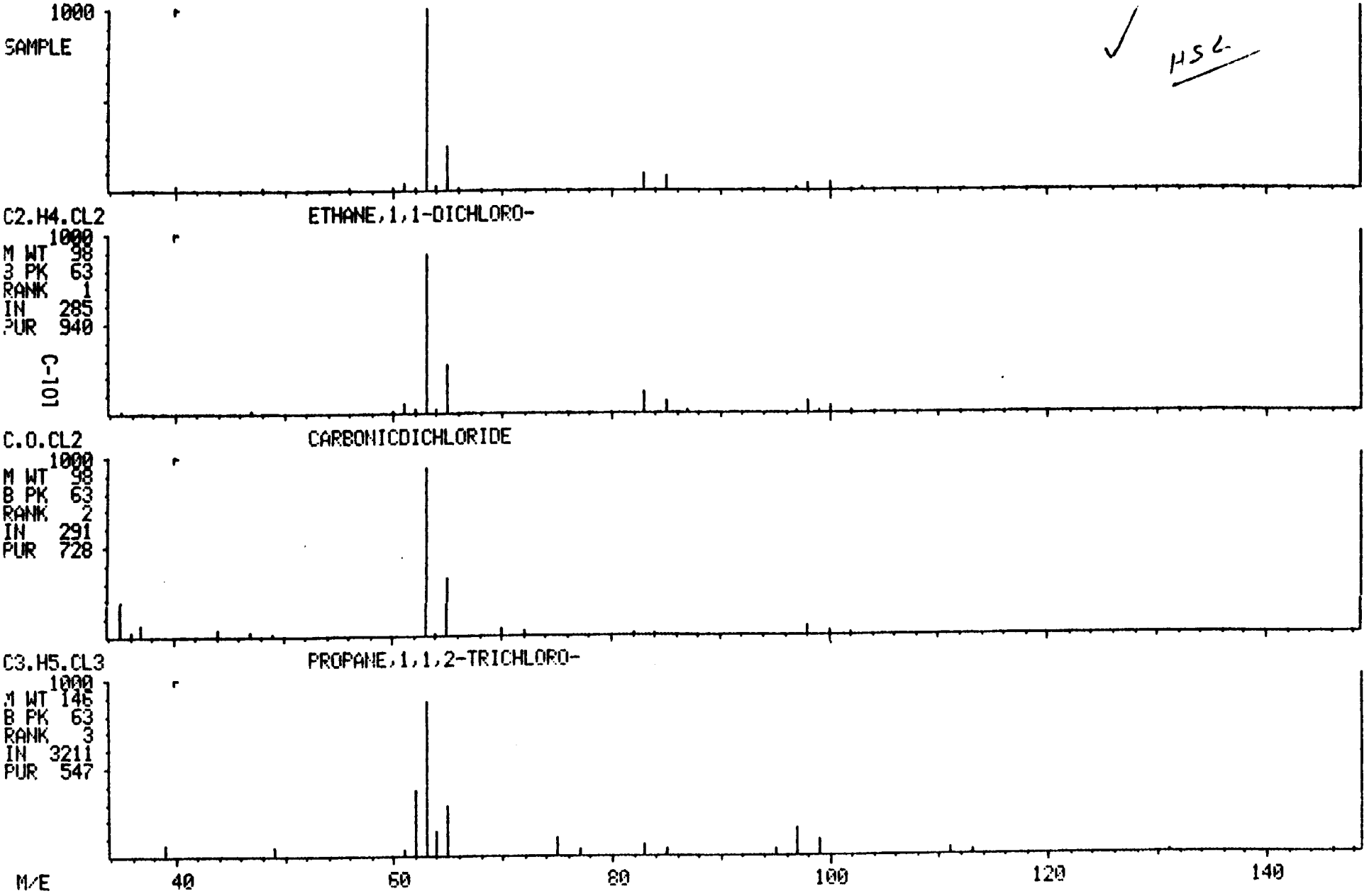
BASE M/E: 49
RIC: 31199.



LIBRARY SEARCH
07/30/85 16:07:00 + 6:56
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 208
CALI: E0281 # 6

BASE M/E: 63
RIC: 5735.



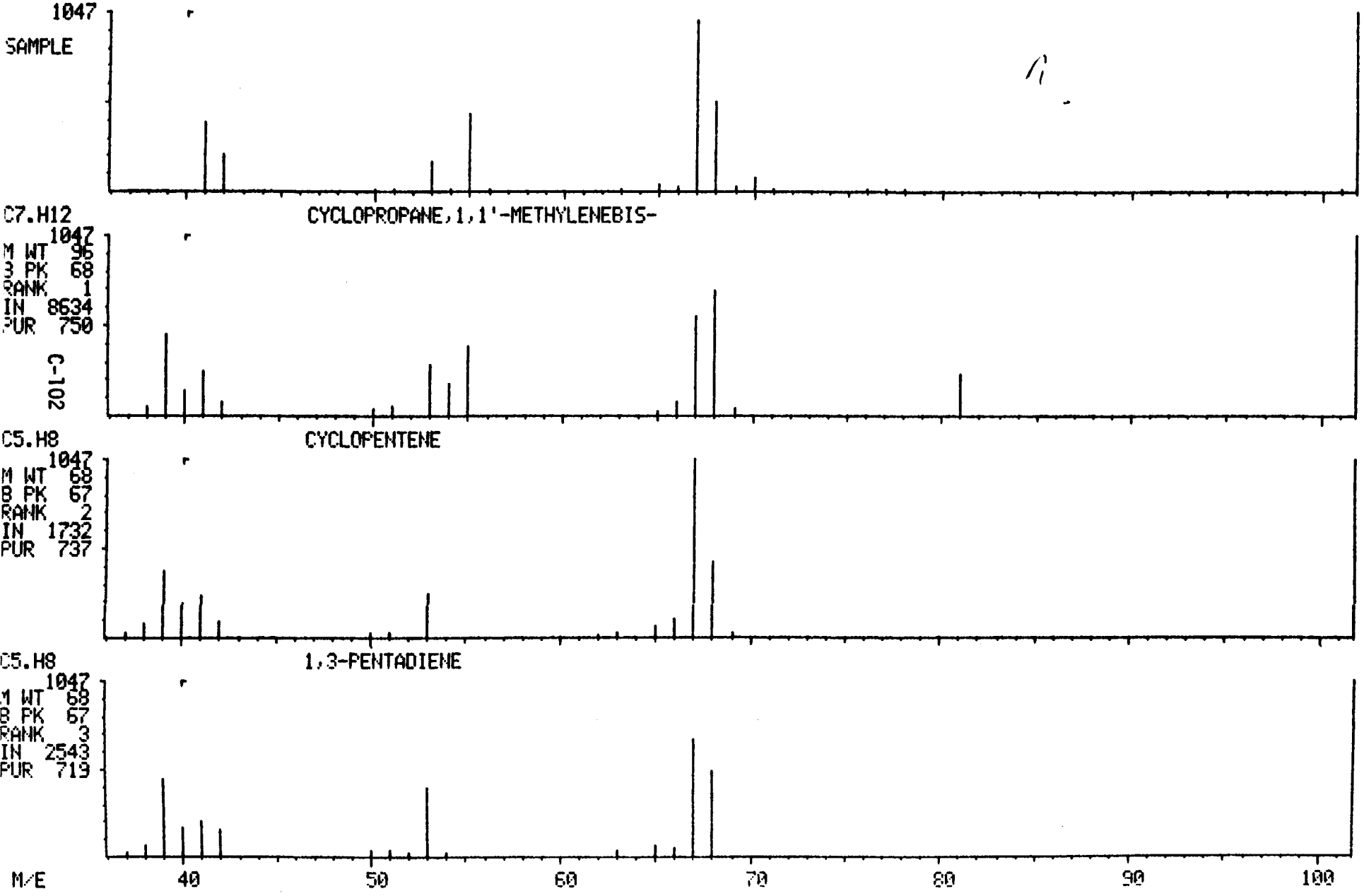
✓ HSL

C-101

LIBRARY SEARCH
07/30/85 16:07:00 + 7:20
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 220
CALI: E0281 # 6

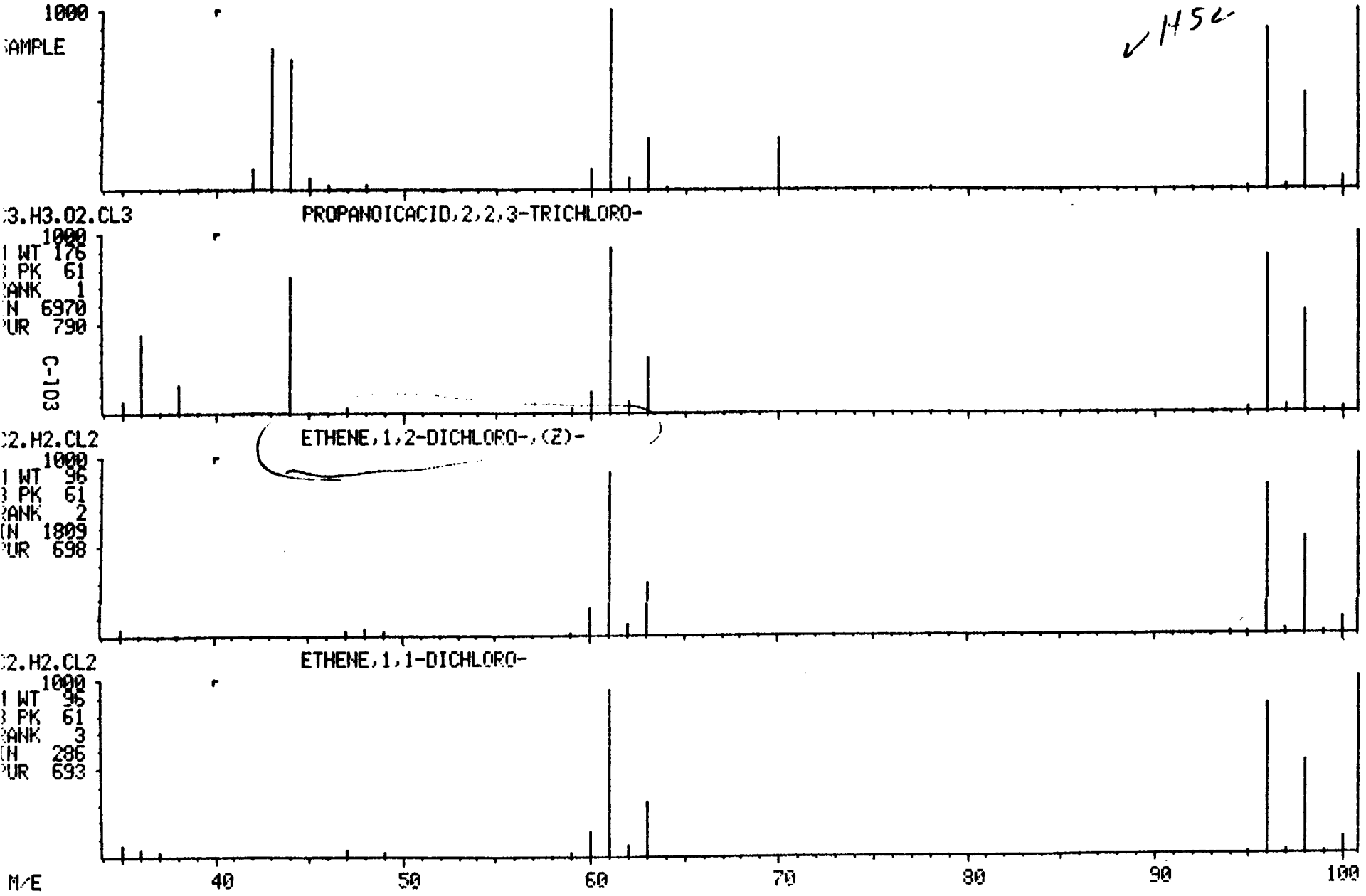
BASE M/E: 67
RIC: 150015.



LIBRARY SEARCH
07/30/85 16:07:00 + 7:36
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 228
CALI: EQ281 # 5

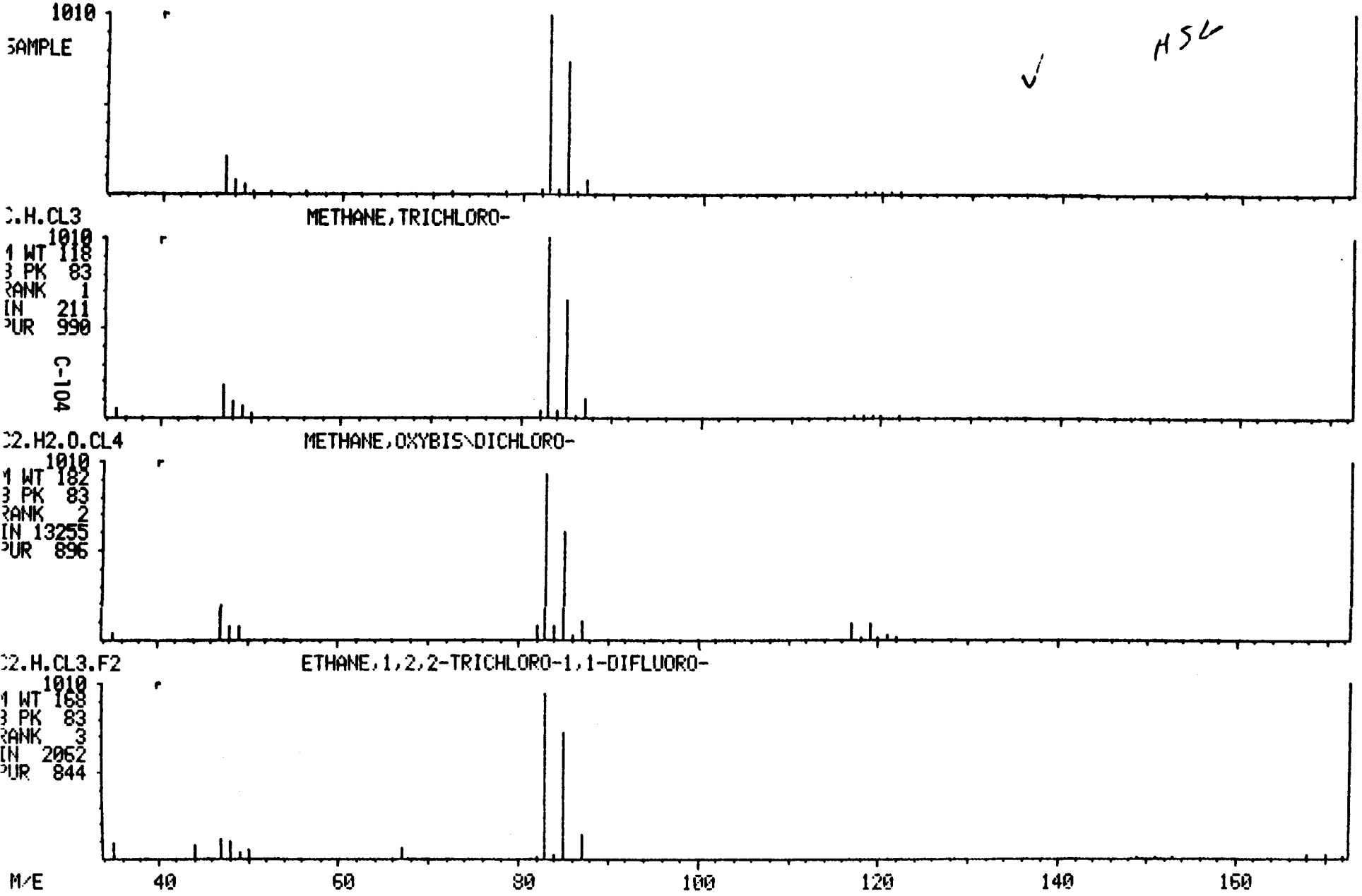
BASE M/E: 61
RIC: 37433.



LIBRARY SEARCH
07/30/85 16:07:00 + 7:54
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 237
CALI: EQ281 # 6

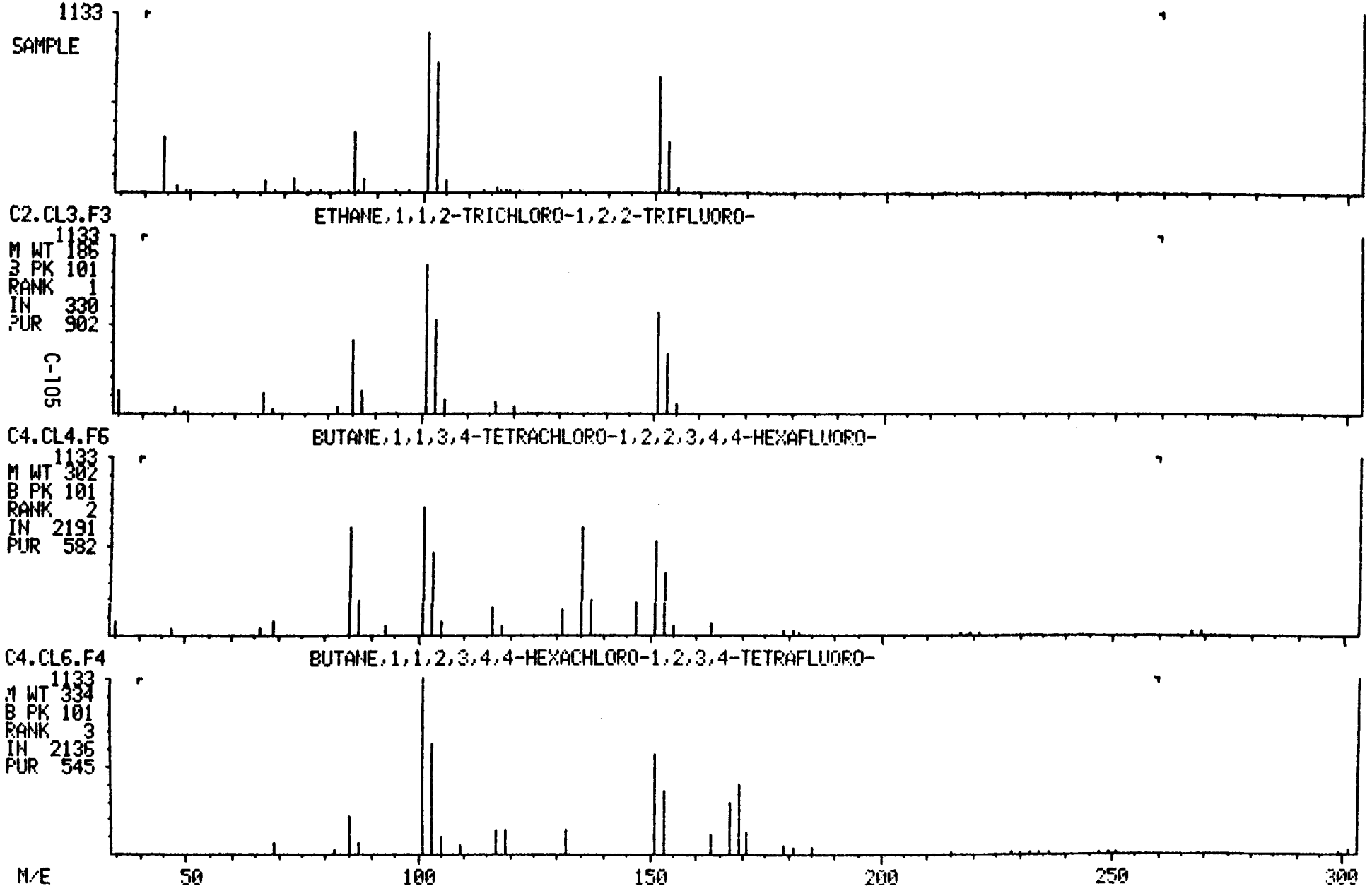
BASE M/E: 83
RIC: 94463.



LIBRARY SEARCH
07/30/85 16:07:00 + 8:22
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 251
CALI: E0281 # 6

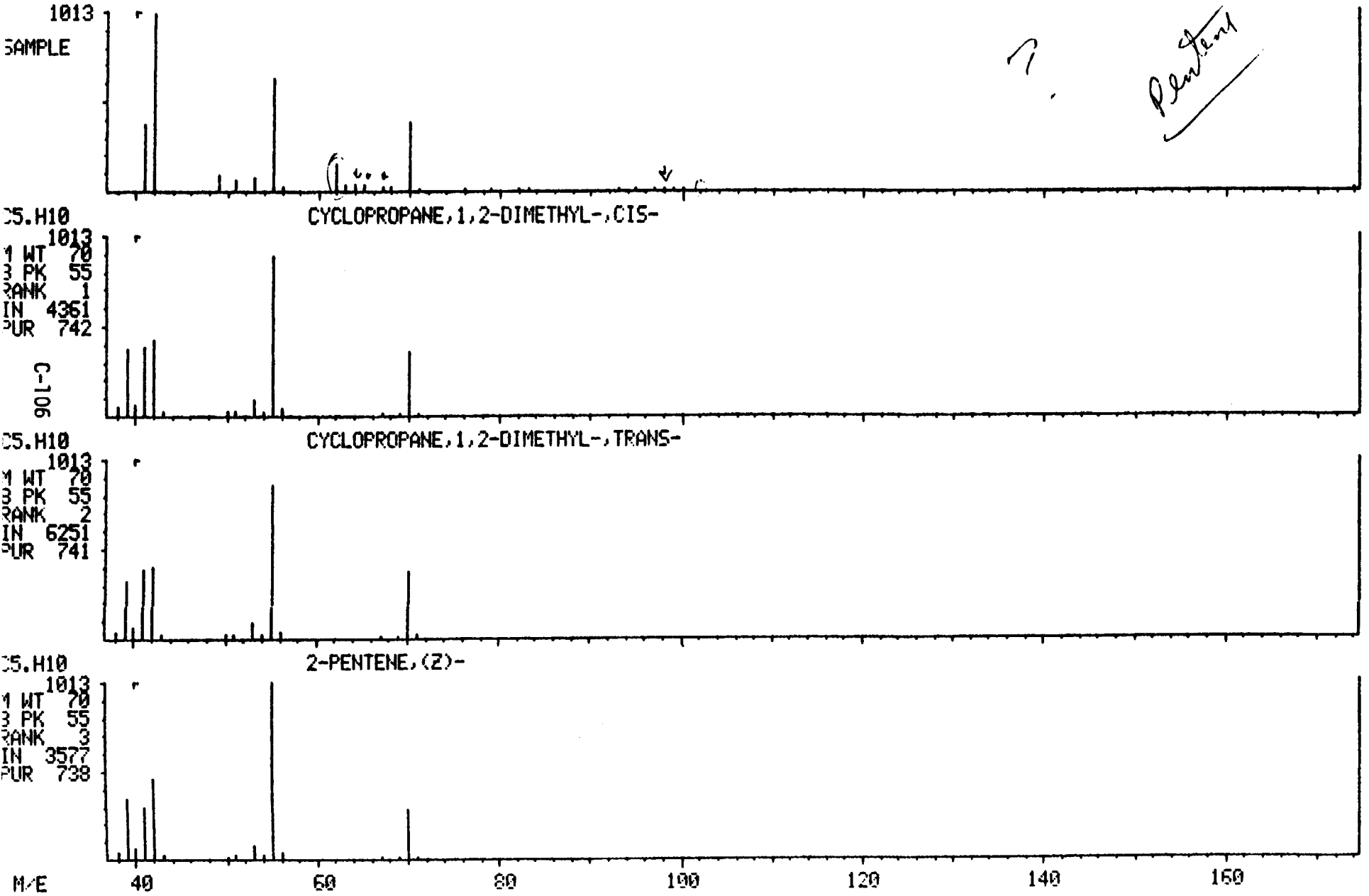
BASE M/E: 101
RIC: 149247.



LIBRARY SEARCH
07/30/85 16:07:00 + 8:36
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 258
CALI: E0281 # 6

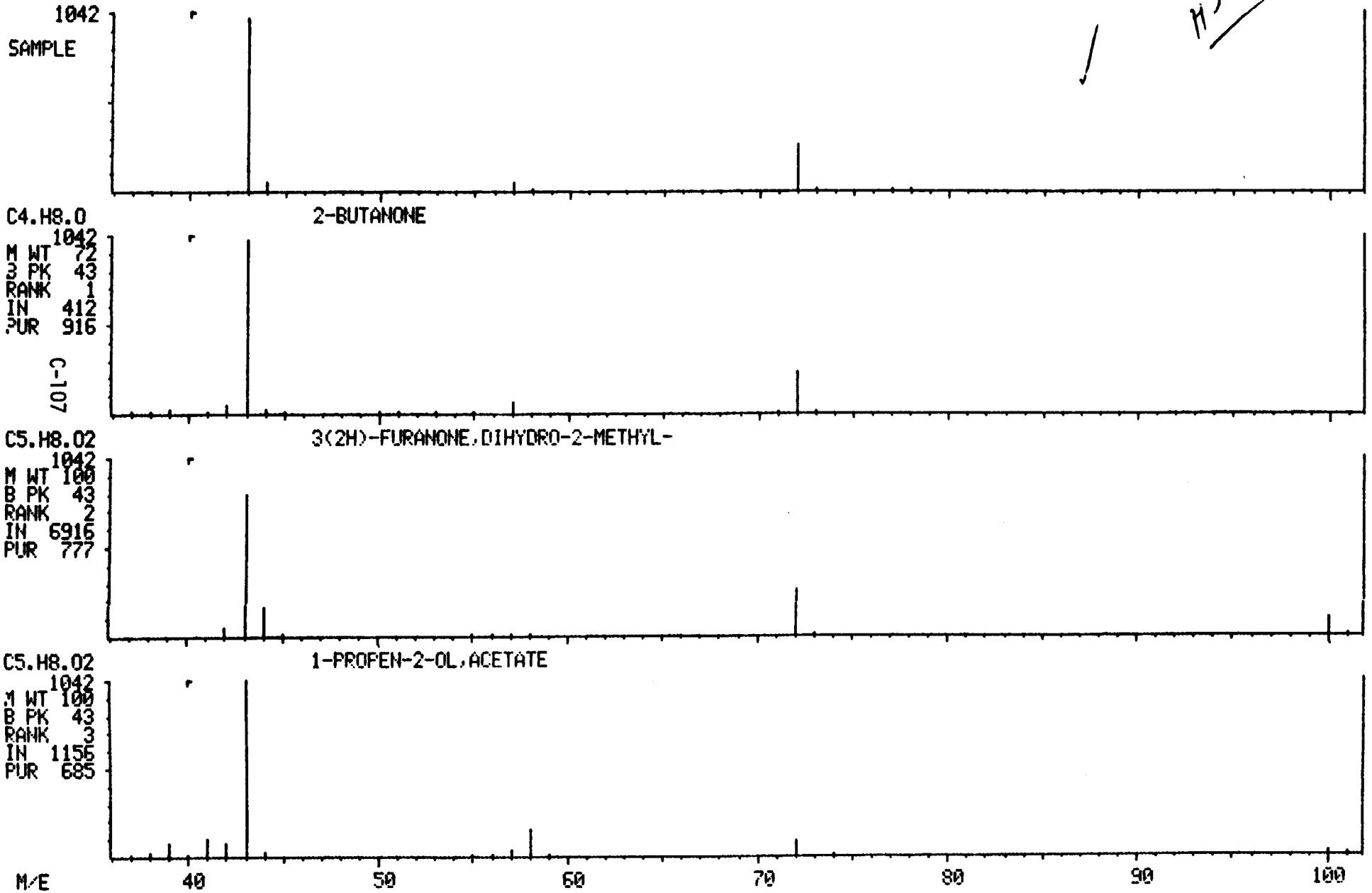
BASE M/E: 42
RIC: 639391.



LIBRARY SEARCH
07/30/85 16:07:00 + 8:46
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 263
CALI: E0281 # 6

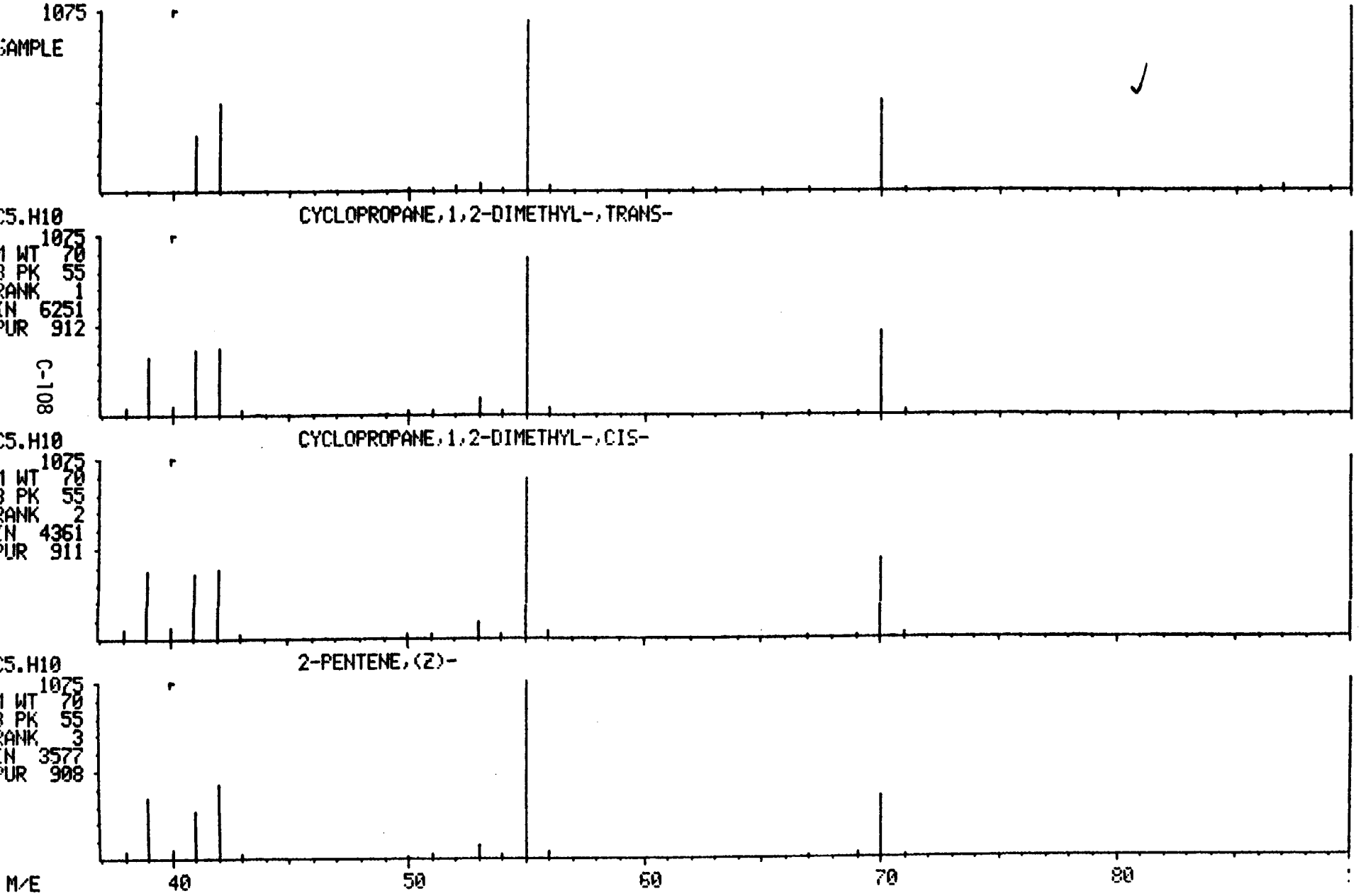
BASE M/E: 43
RIC: 107135.



LIBRARY SEARCH
07/30/85 16:07:00 + 9:14
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 277
CALI: E0281 # 6

BASE M/E: 55
RIC: 109823.

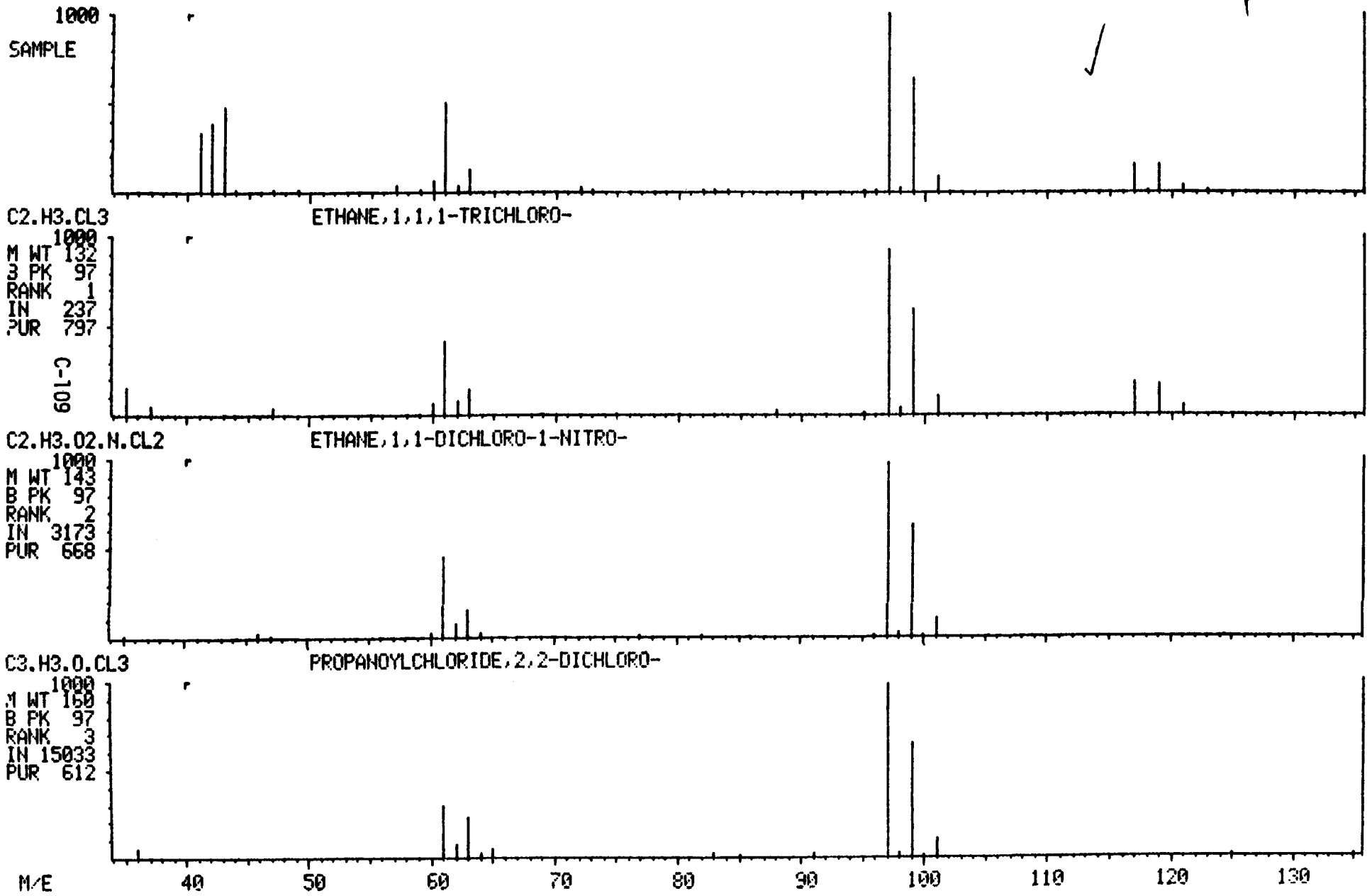


LIBRARY SEARCH
07/30/85 16:07:00 + 9:32
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 286
CALI: EQ281 # 6

BASE M/E: 97
RIC: 273407.

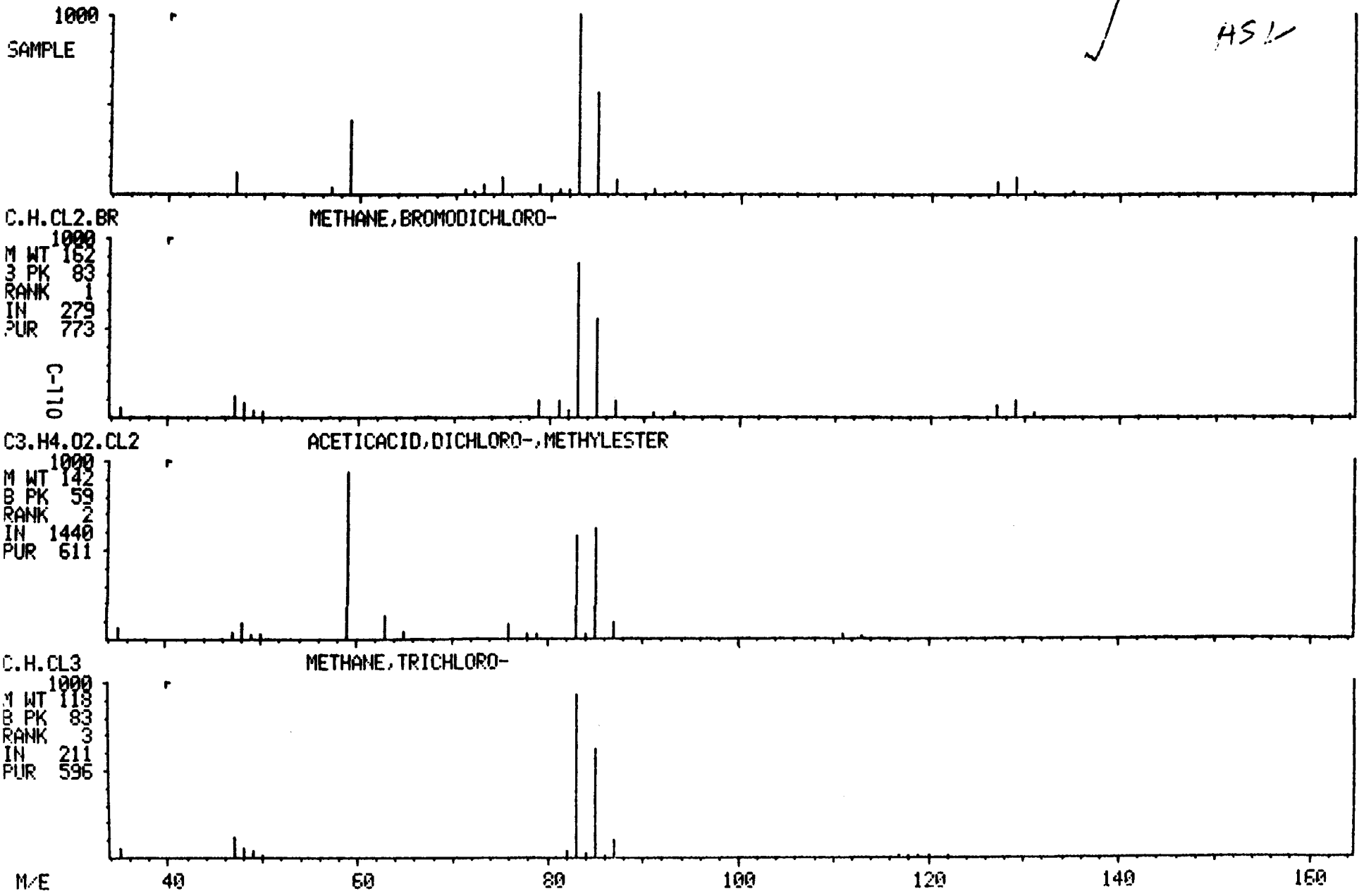
µ5L



LIBRARY SEARCH
07/30/85 16:07:00 + 10:08
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 304
CALI: EQ281 # 6

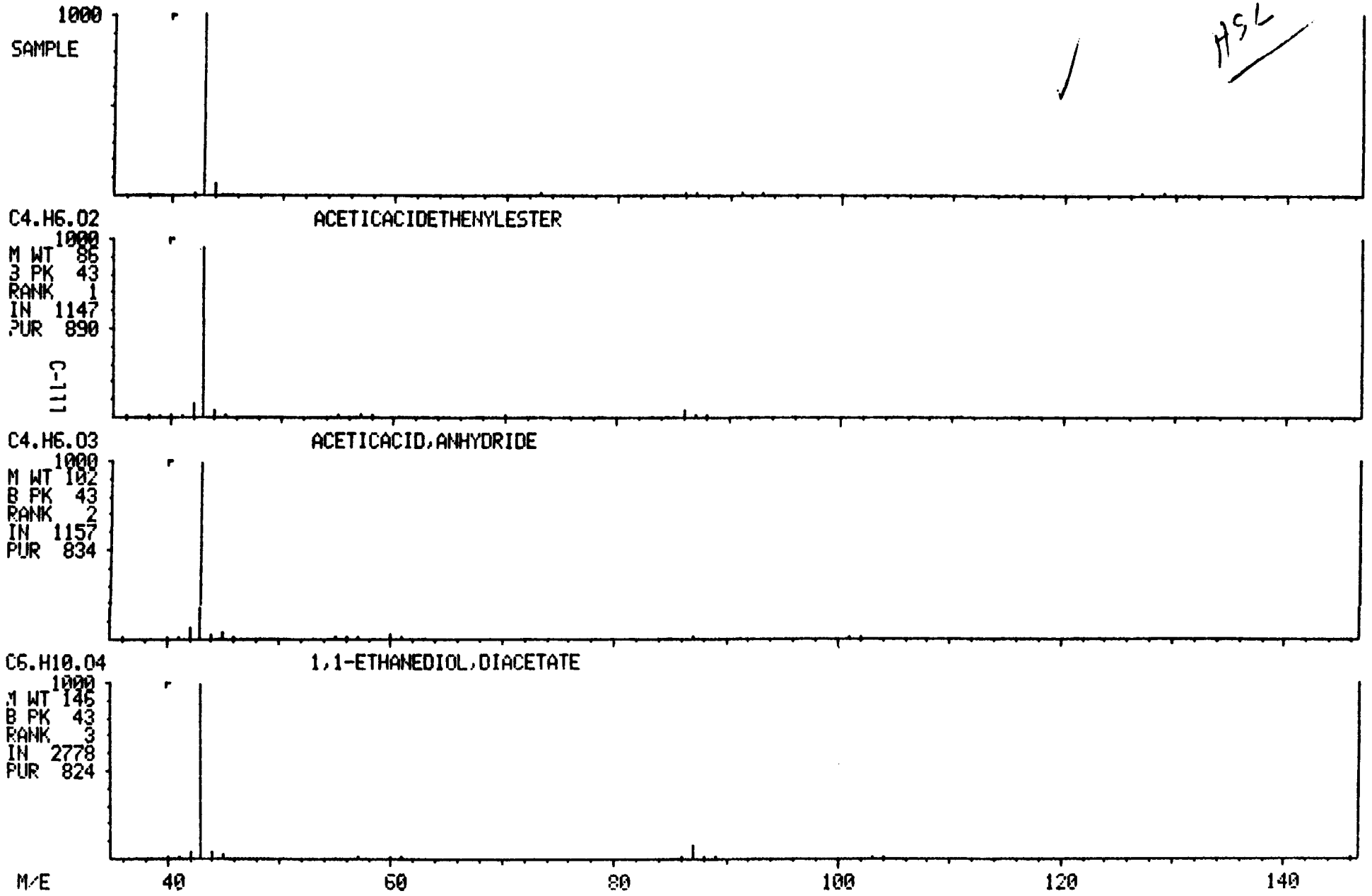
BASE M/E: 83
RIC: 11871.



LIBRARY SEARCH
07/30/85 16:07:00 + 10:12
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 306
CALI: EQ281 # 6

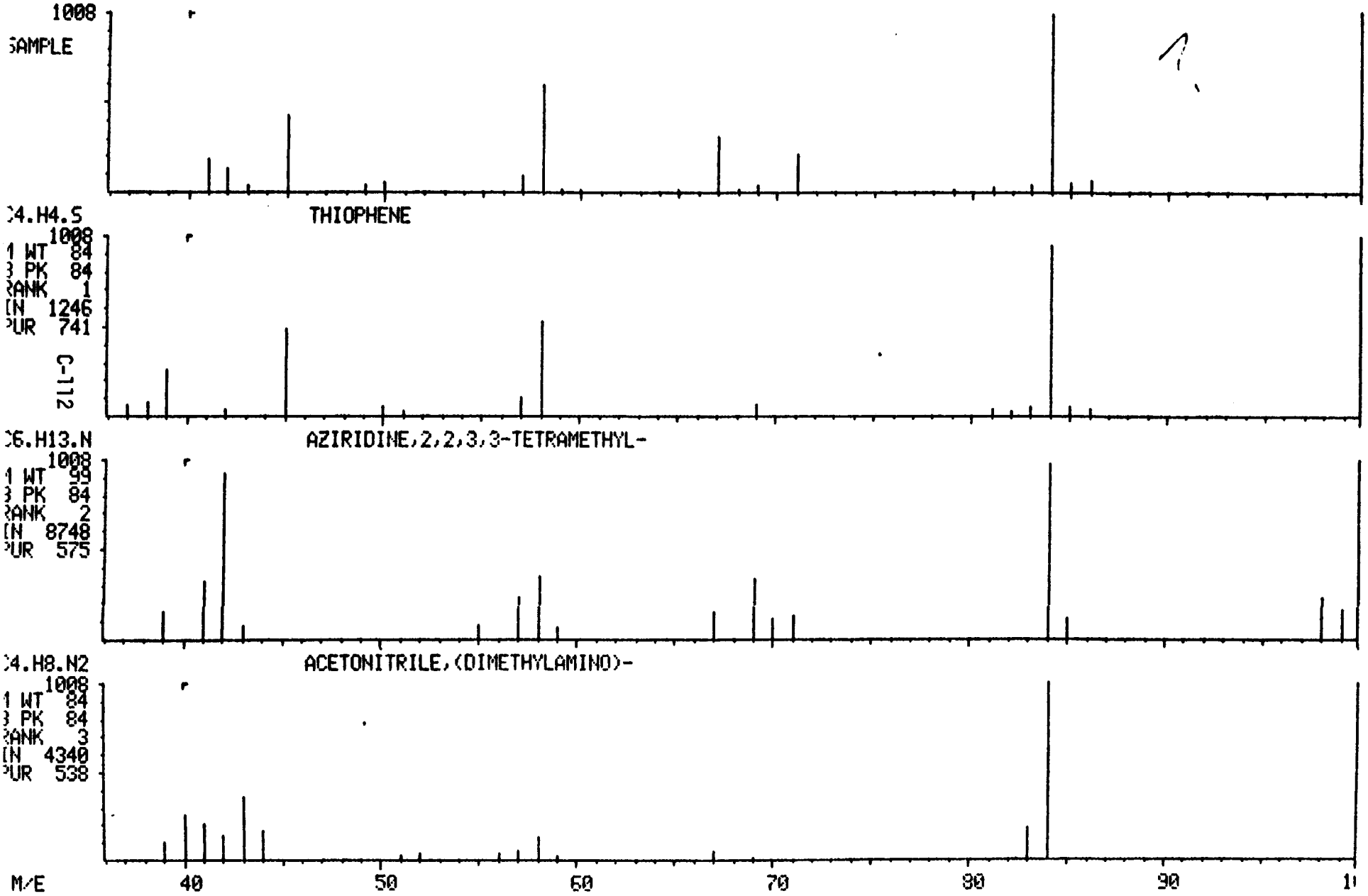
BASE M/E: 43
RIC: 39423.



LIBRARY SEARCH
07/30/85 16:07:00 + 10:22
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 311
CALI: EQ281 # 6

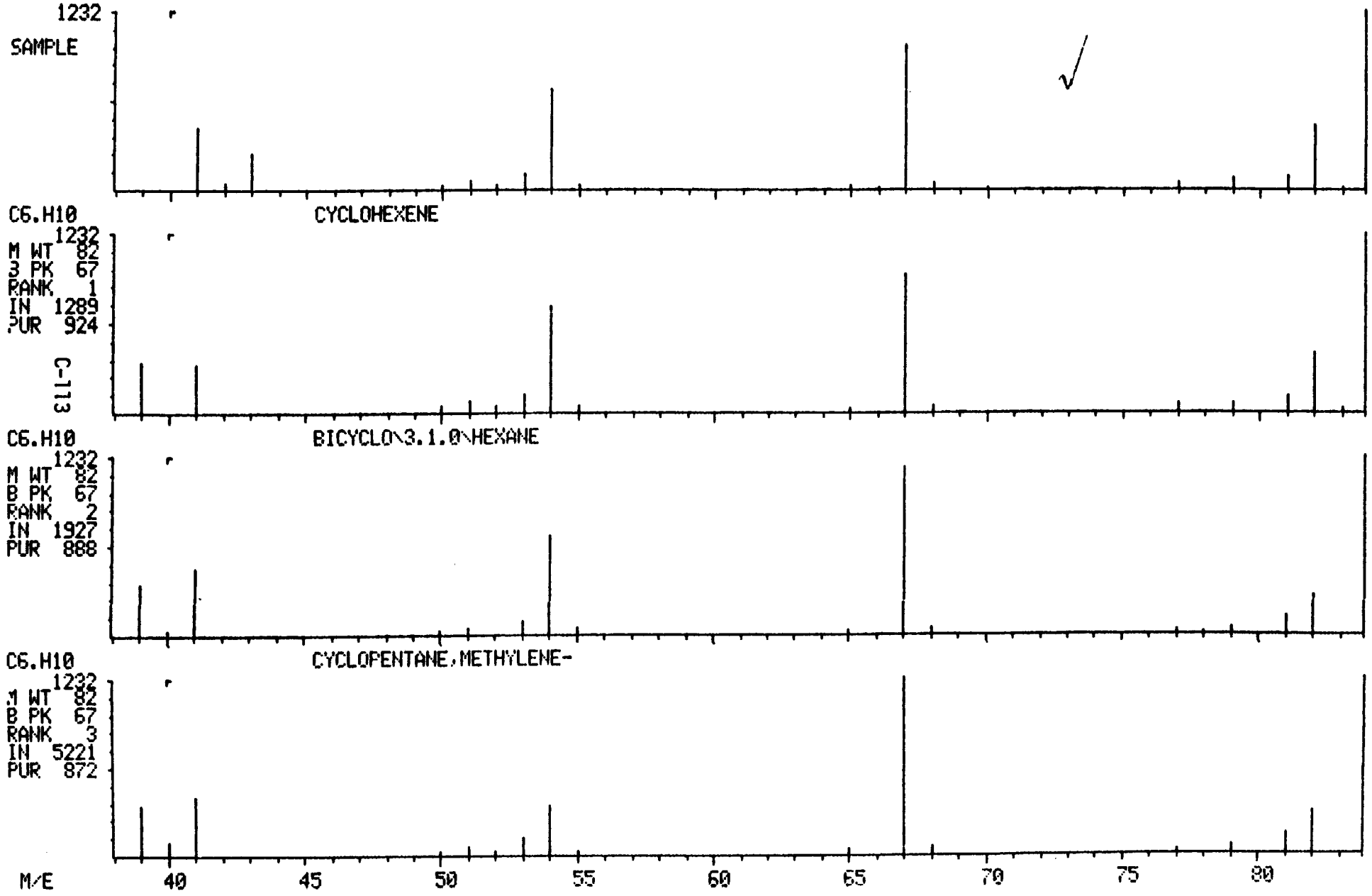
BASE M/E: 84
RIC: 431103.



LIBRARY SEARCH
07/30/85 16:07:00 + 11:04
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 332
CALI: E0281 # 6

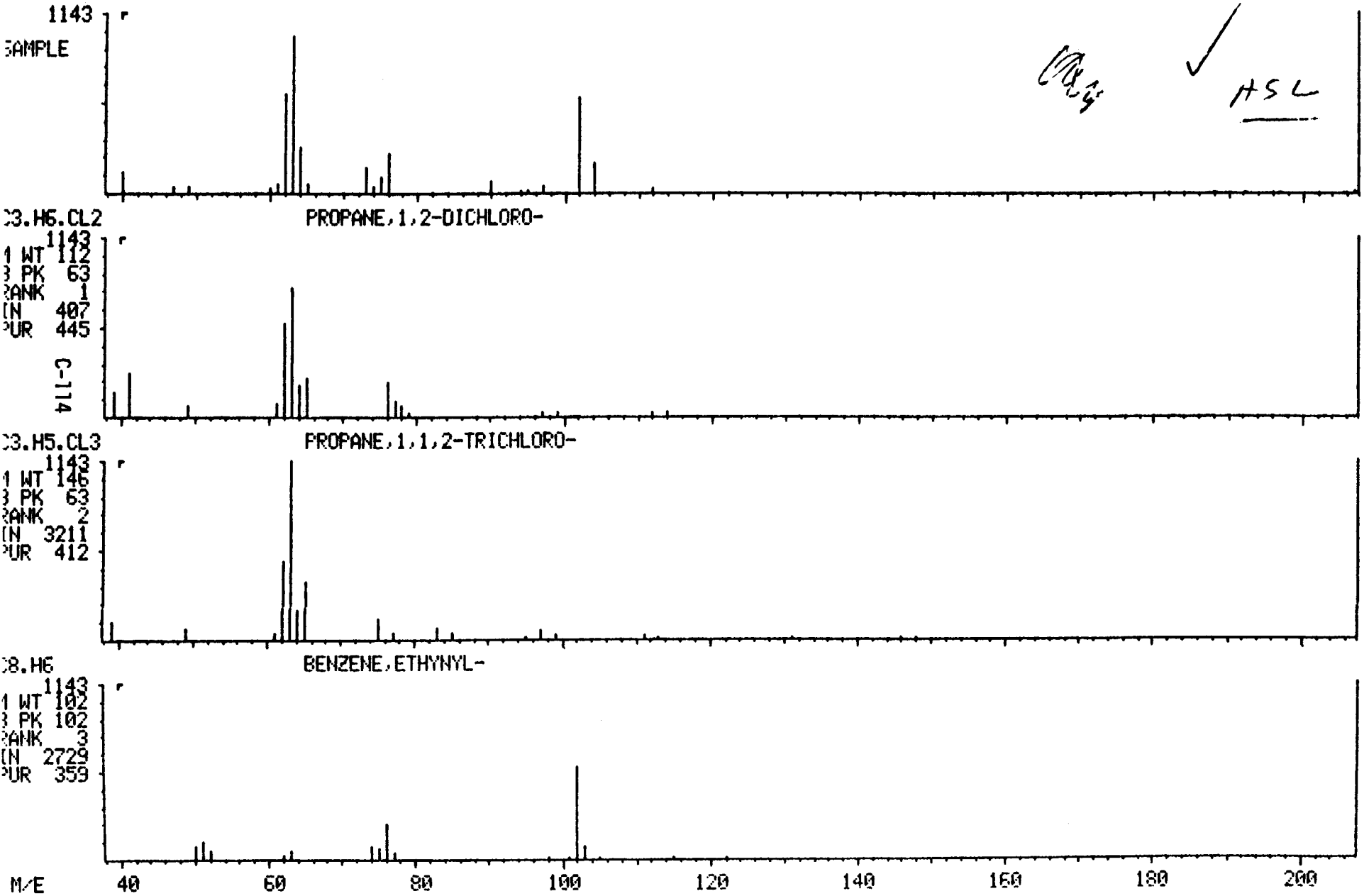
BASE M/E: 67
RIC: 407039.



LIBRARY SEARCH
07/30/85 16:07:00 + 11:16
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 338
CALI: E0281 # 6

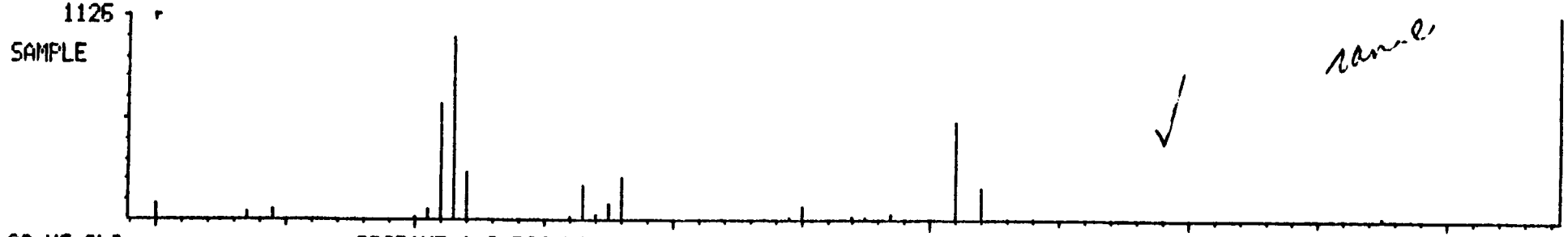
BASE M/E: 63
RIC: 6551.



LIBRARY SEARCH
07/30/85 16:07:00 + 11:18
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

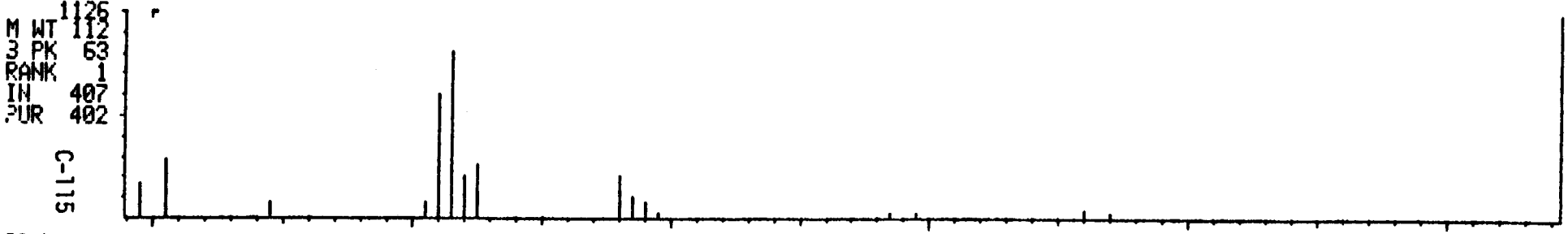
DATA: EQ281 # 339
CALI: EQ281 # 6

BASE M/E: 63
RIC: 5983.



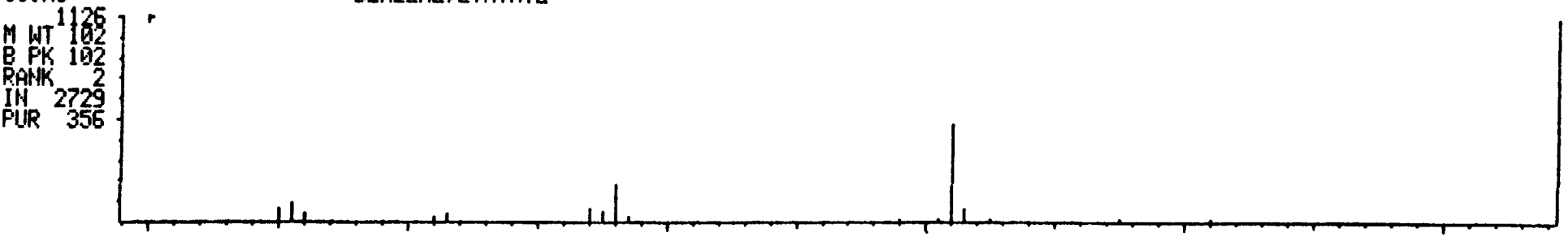
same

C3.H6.CL2 PROPANE,1,2-DICHLORO-

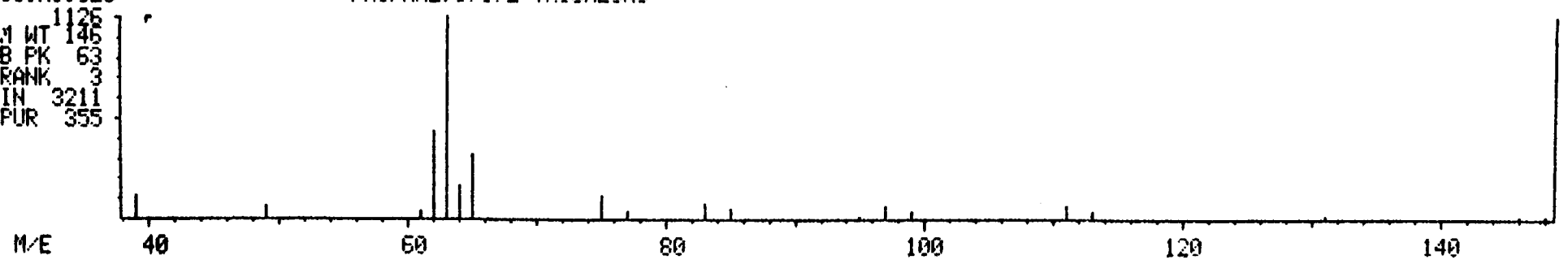


C-115

C8.H6 BENZENE,ETHYNYL-



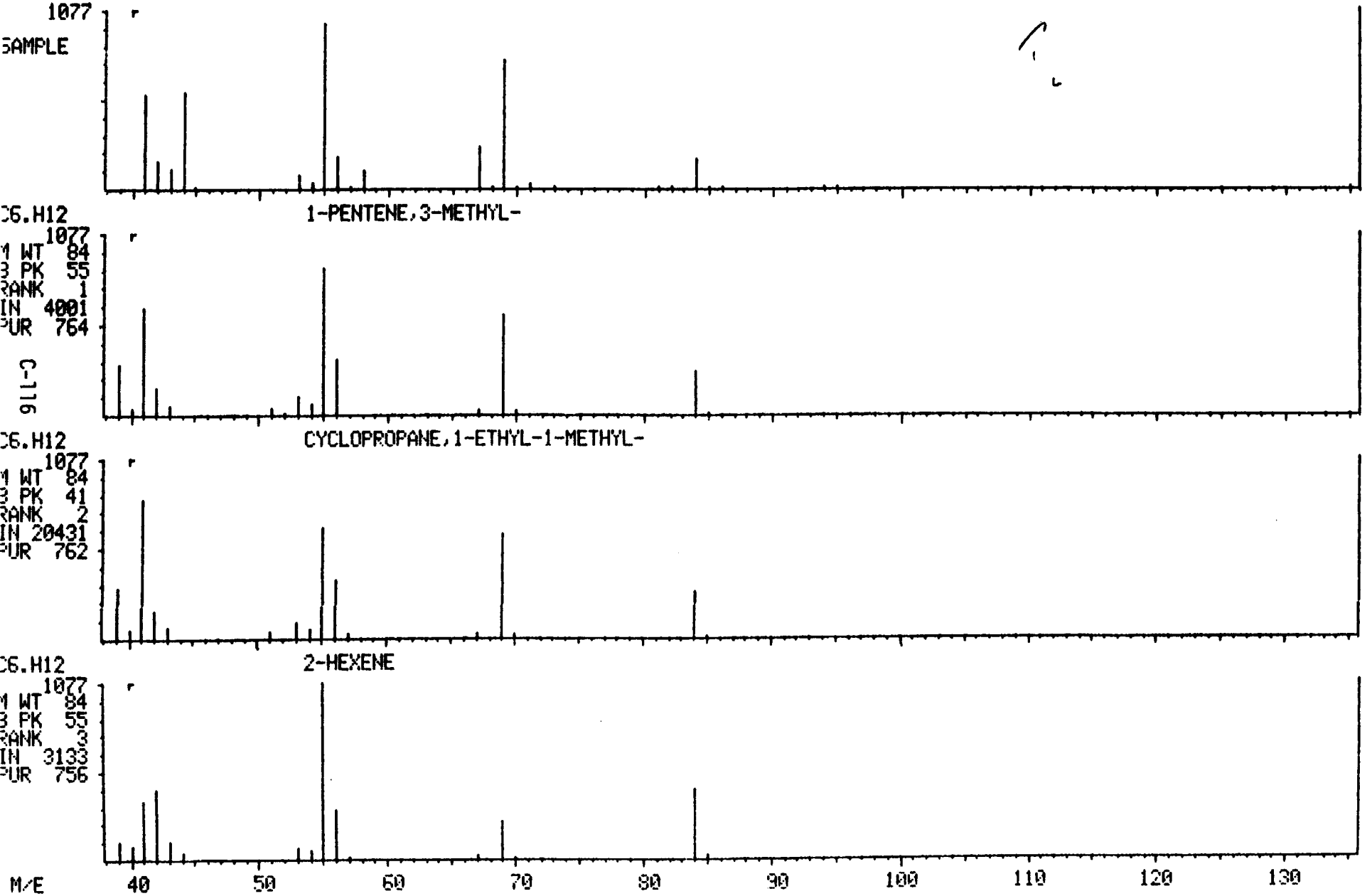
C3.H5.CL3 PROPANE,1,1,2-TRICHLORO-



LIBRARY SEARCH
07/30/85 16:07:00 + 11:24
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 342
CALI: E0281 # 6

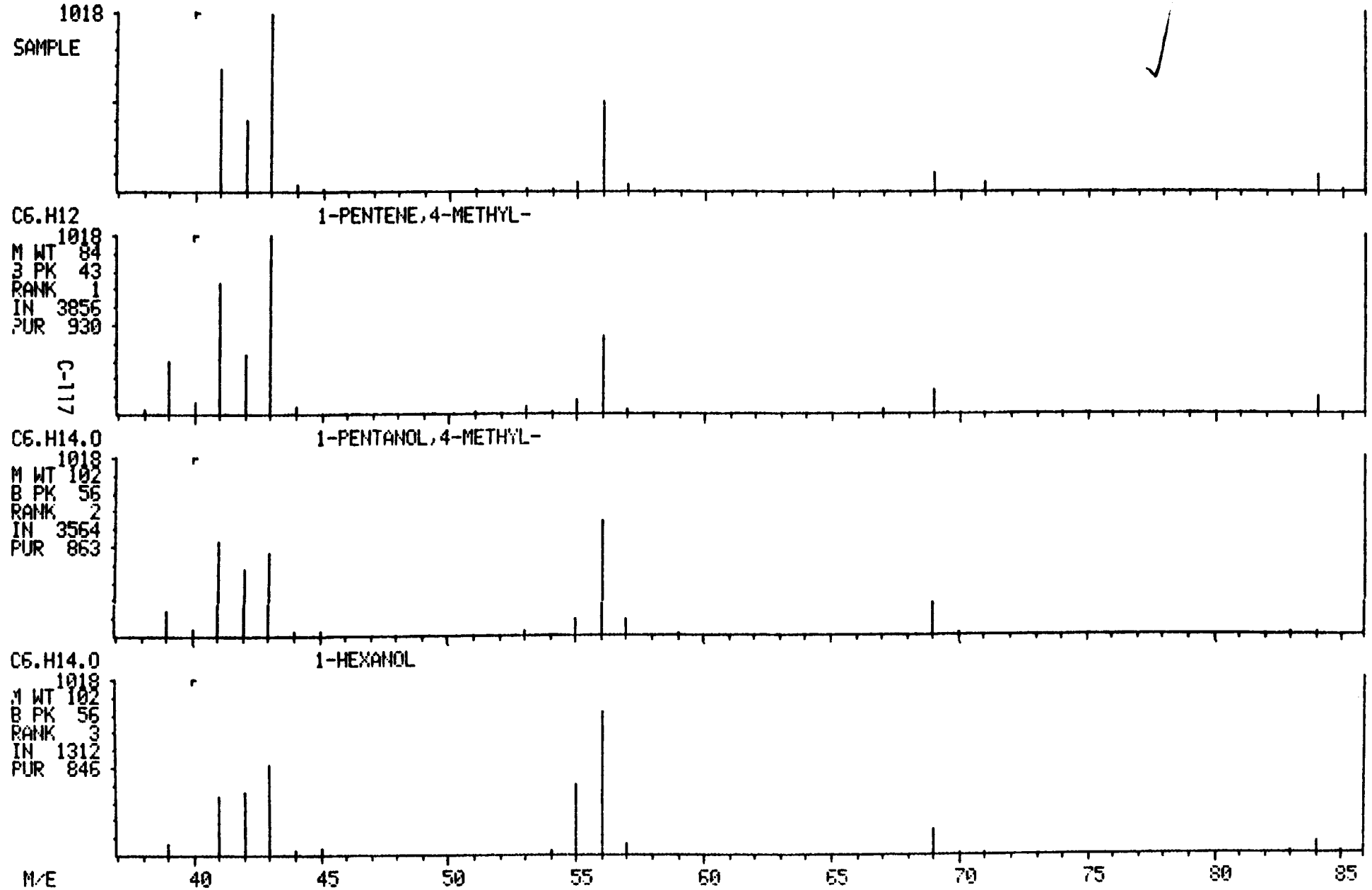
BASE M/E: 55
RIC: 114303.



LIBRARY SEARCH
07/30/85 16:07:00 + 11:38
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 349
CALI: E0281 # 6

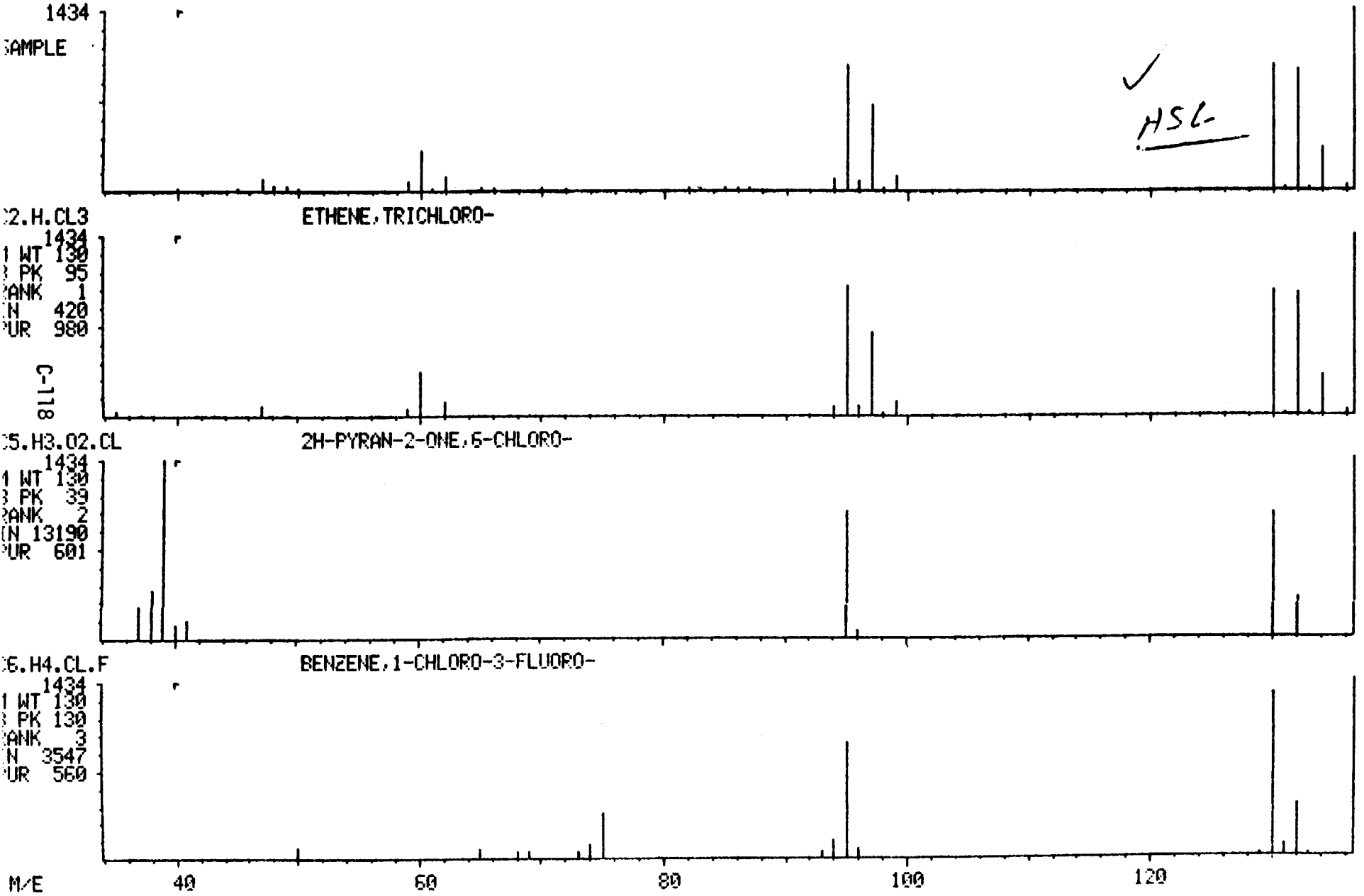
BASE M/E: 43
RIC: 203519.



LIBRARY SEARCH
07/30/85 16:07:00 + 11:54
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 357
CALI: E0281 # 6

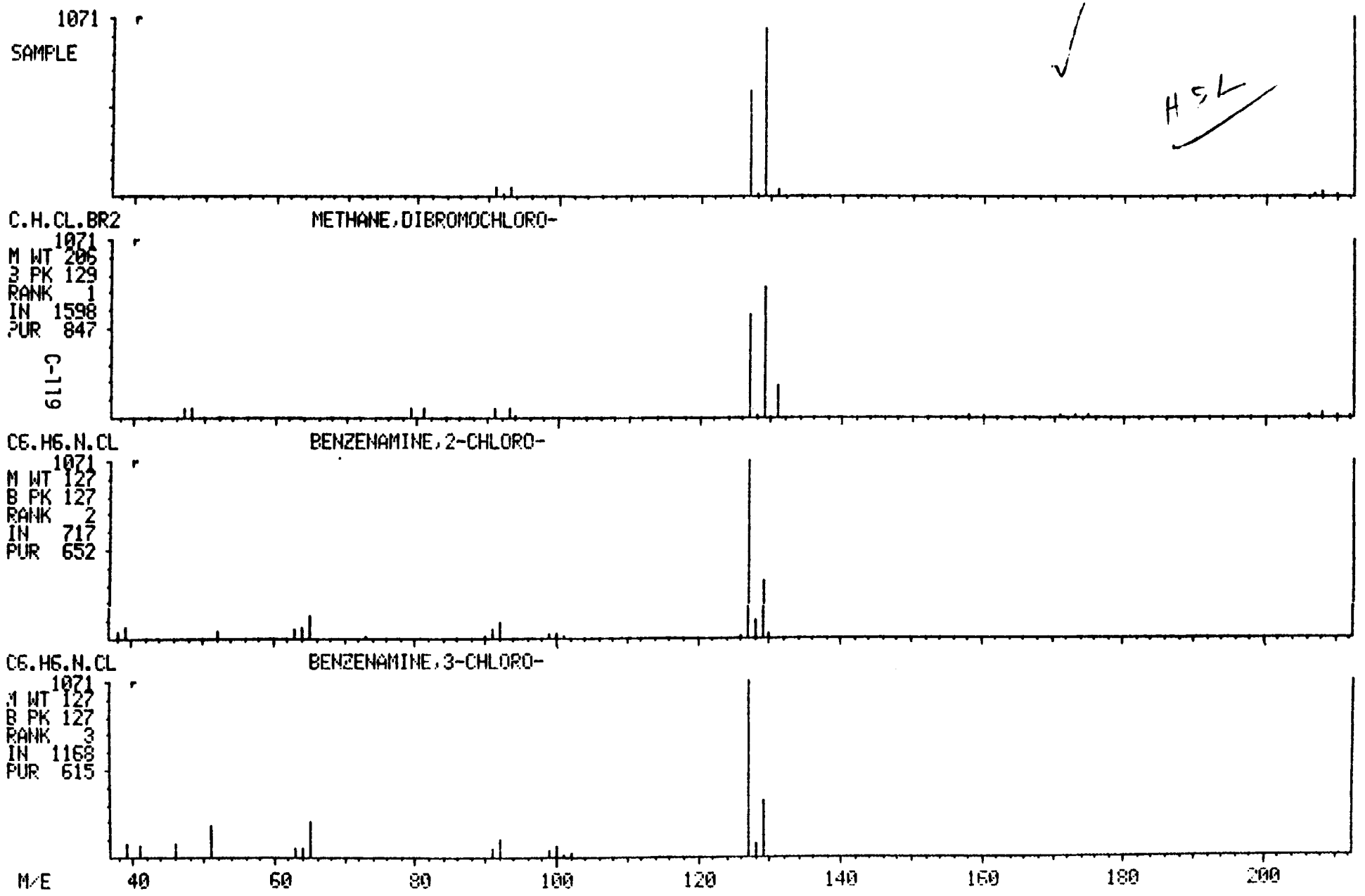
BASE M/E: 95
RIC: 2240510.



LIBRARY SEARCH
07/30/85 16:07:00 + 12:05
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 363
CALI: E0281 # 6

BASE M/E: 129
RIC: 8007.

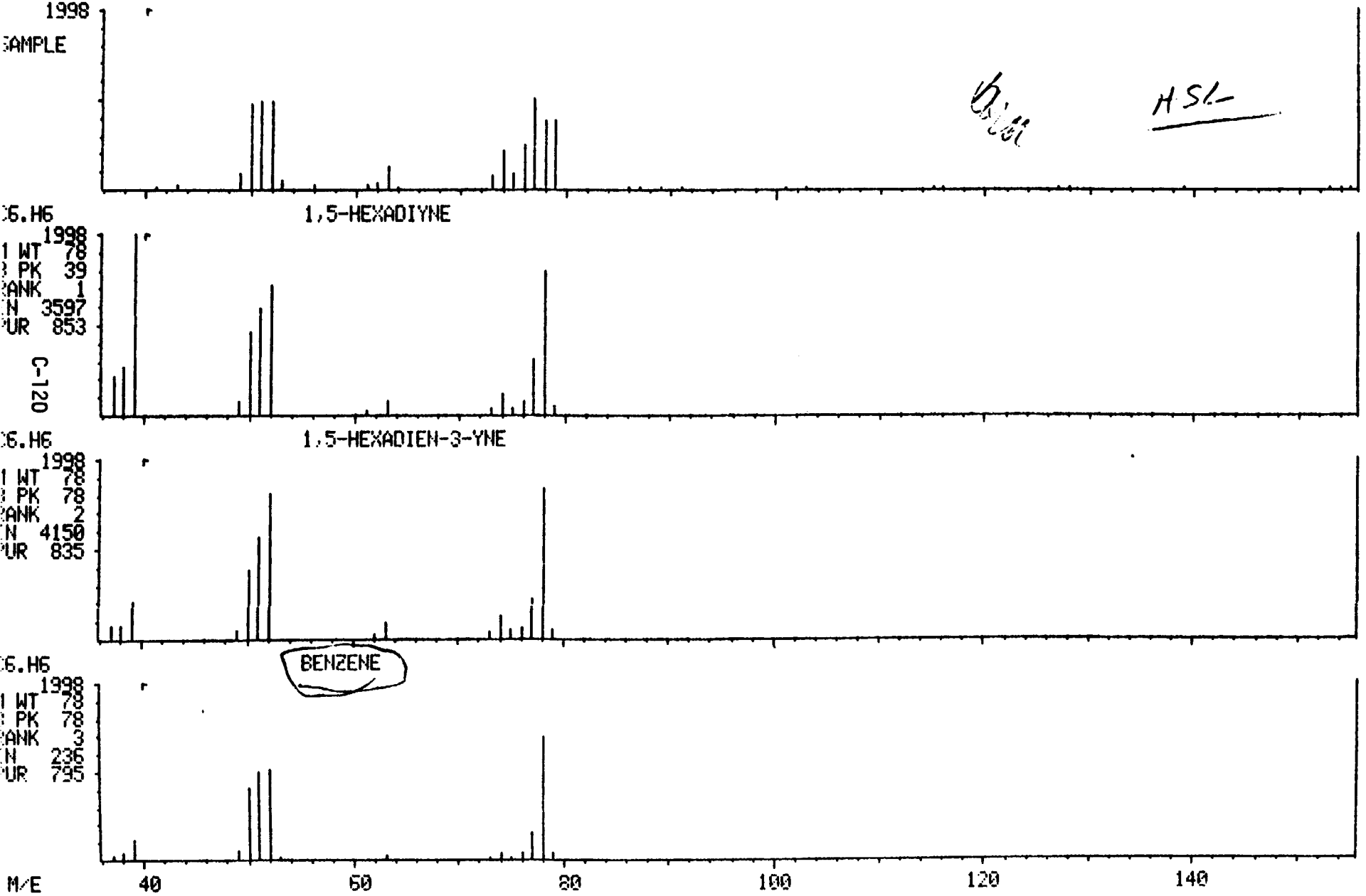


C-119

LIBRARY SEARCH
07/30/85 16:07:00 + 12:18
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 359
CALI: E0281 # 6

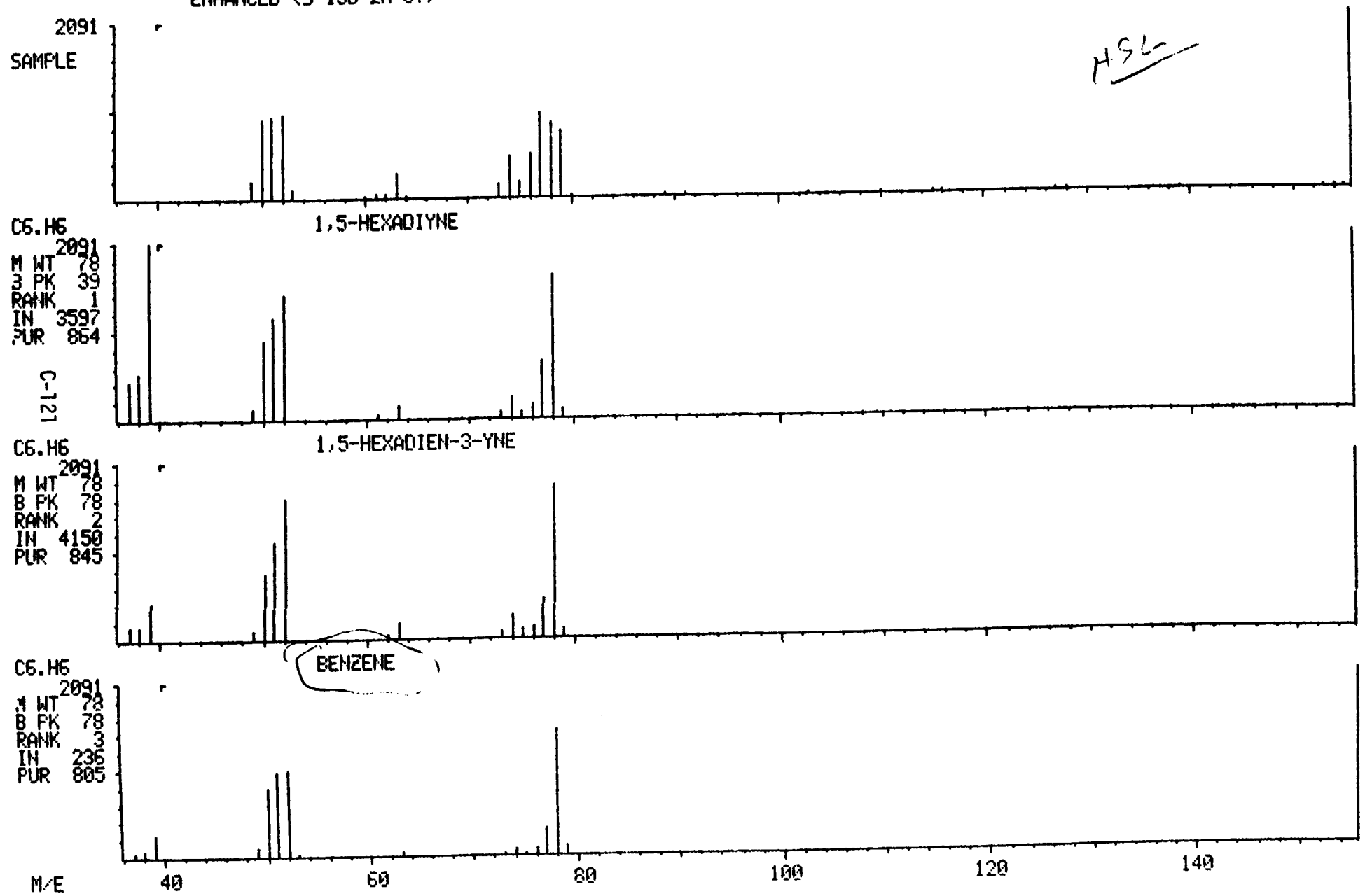
BASE M/E: 77
RIC: 4284410.



LIBRARY SEARCH
07/30/85 16:07:00 + 12:20
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 370
CALI: EQ281 # 6

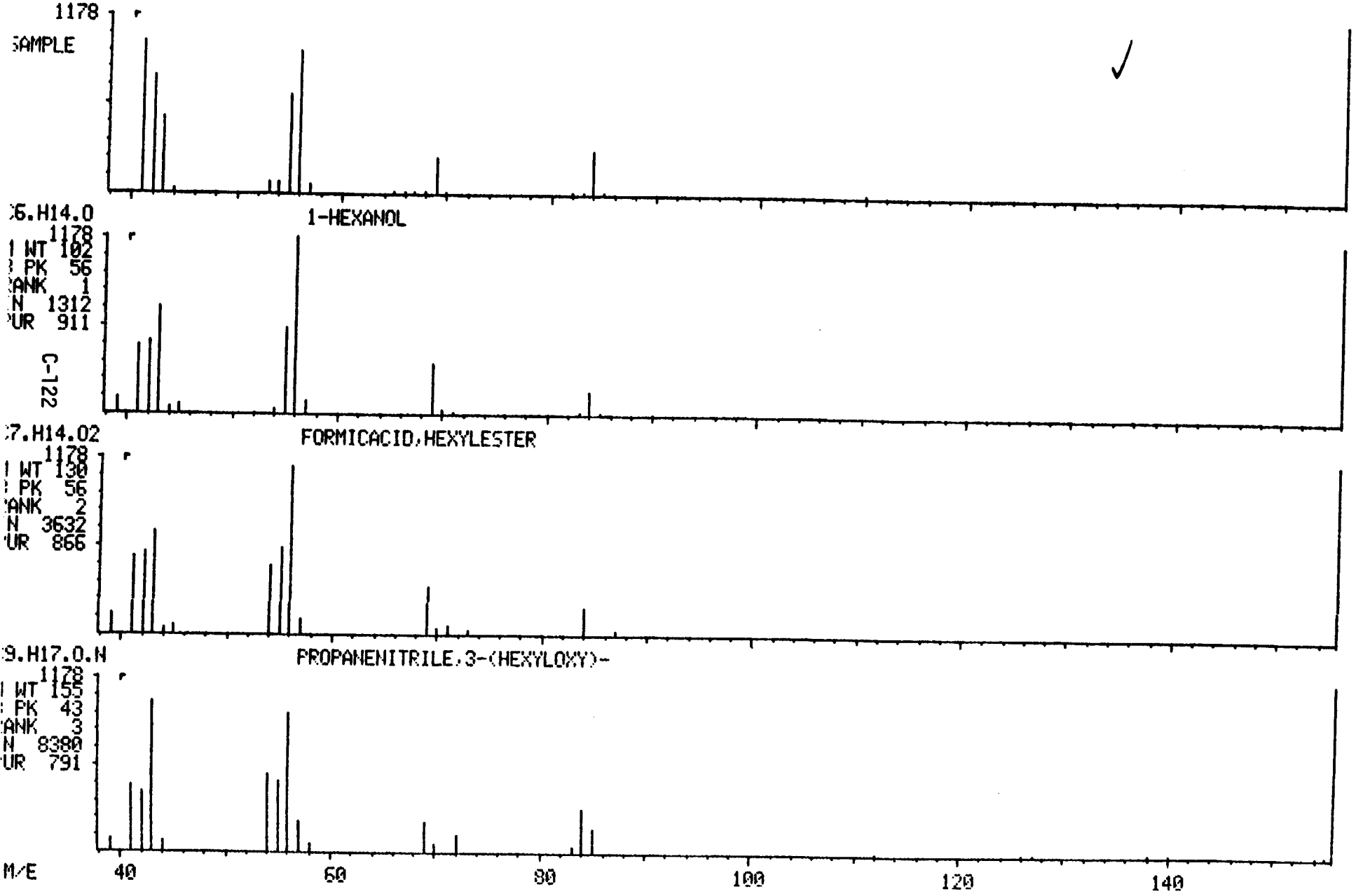
BASE M/E: 77
RIC: 4339100.



LIBRARY SEARCH
07/30/85 16:07:00 + 12:40
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 380
CALI: E0281 # 6

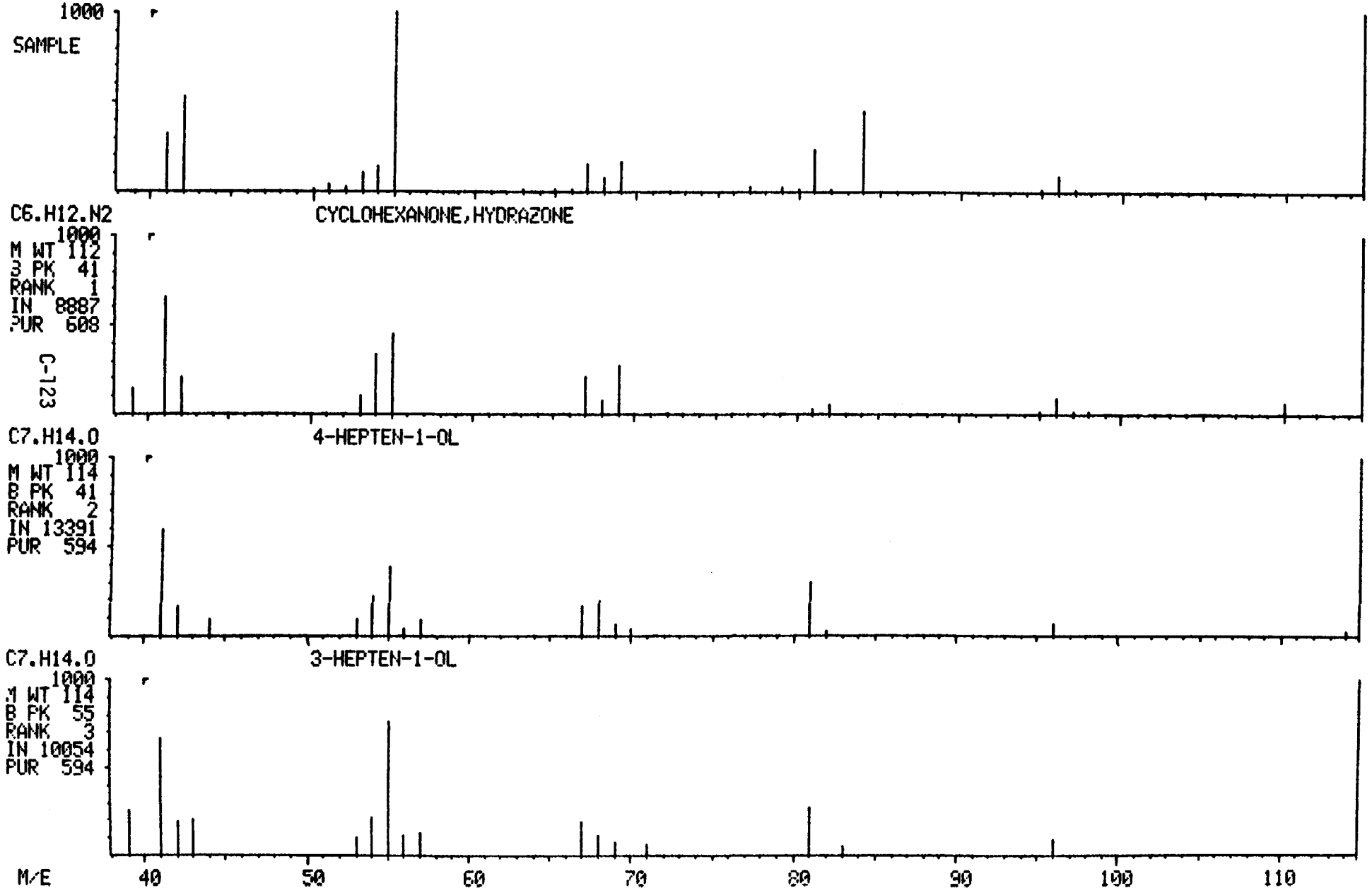
BASE M/E: 41
RIC: 1880060.



LIBRARY SEARCH
07/30/85 16:07:00 + 13:08
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0231 # 394
CALI: E0231 # 6

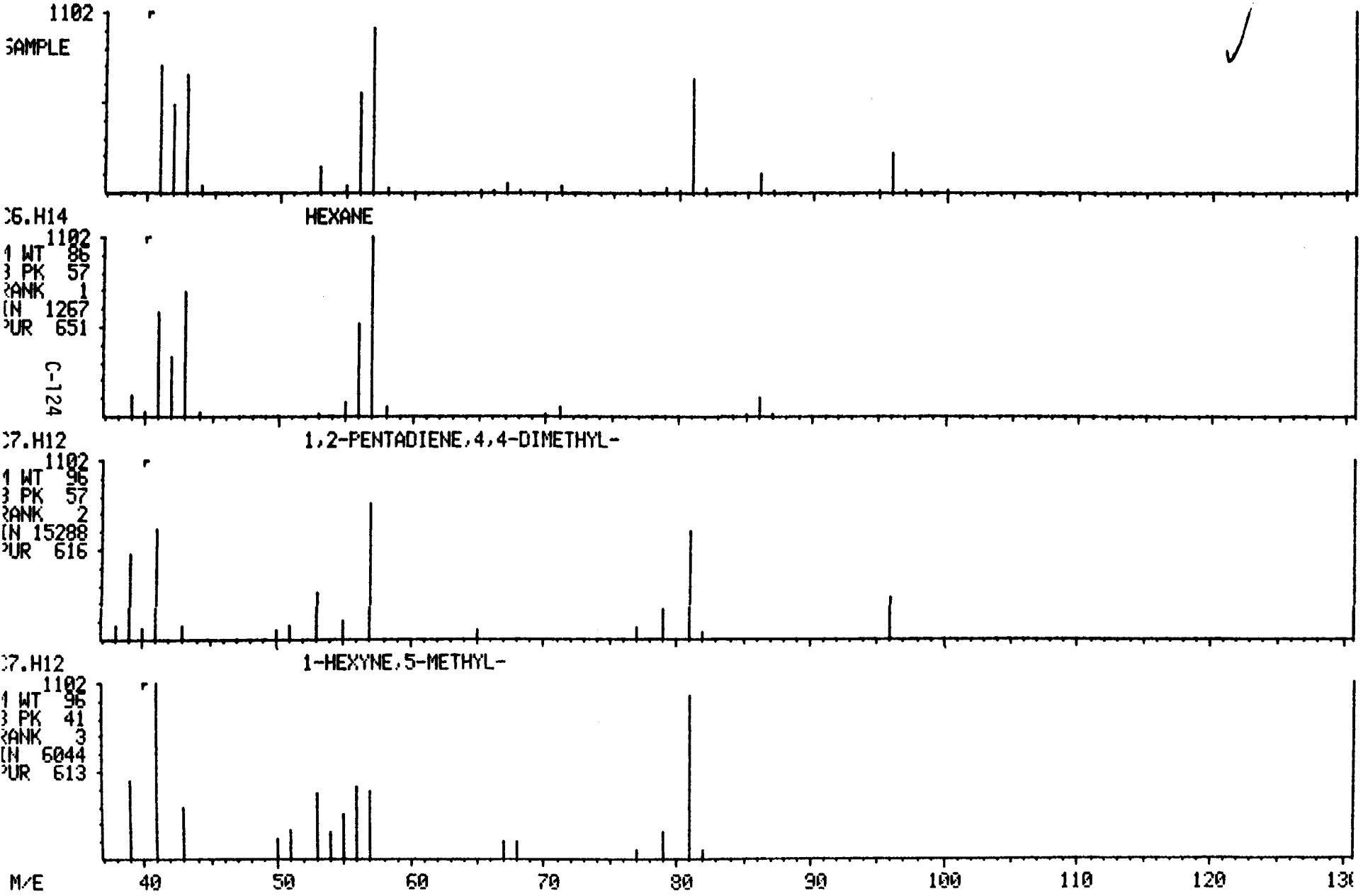
BASE M/E: 55
RIC: 190207.



LIBRARY SEARCH
07/30/85 16:07:00 + 13:28
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 404
CALI: EQ281 # 6

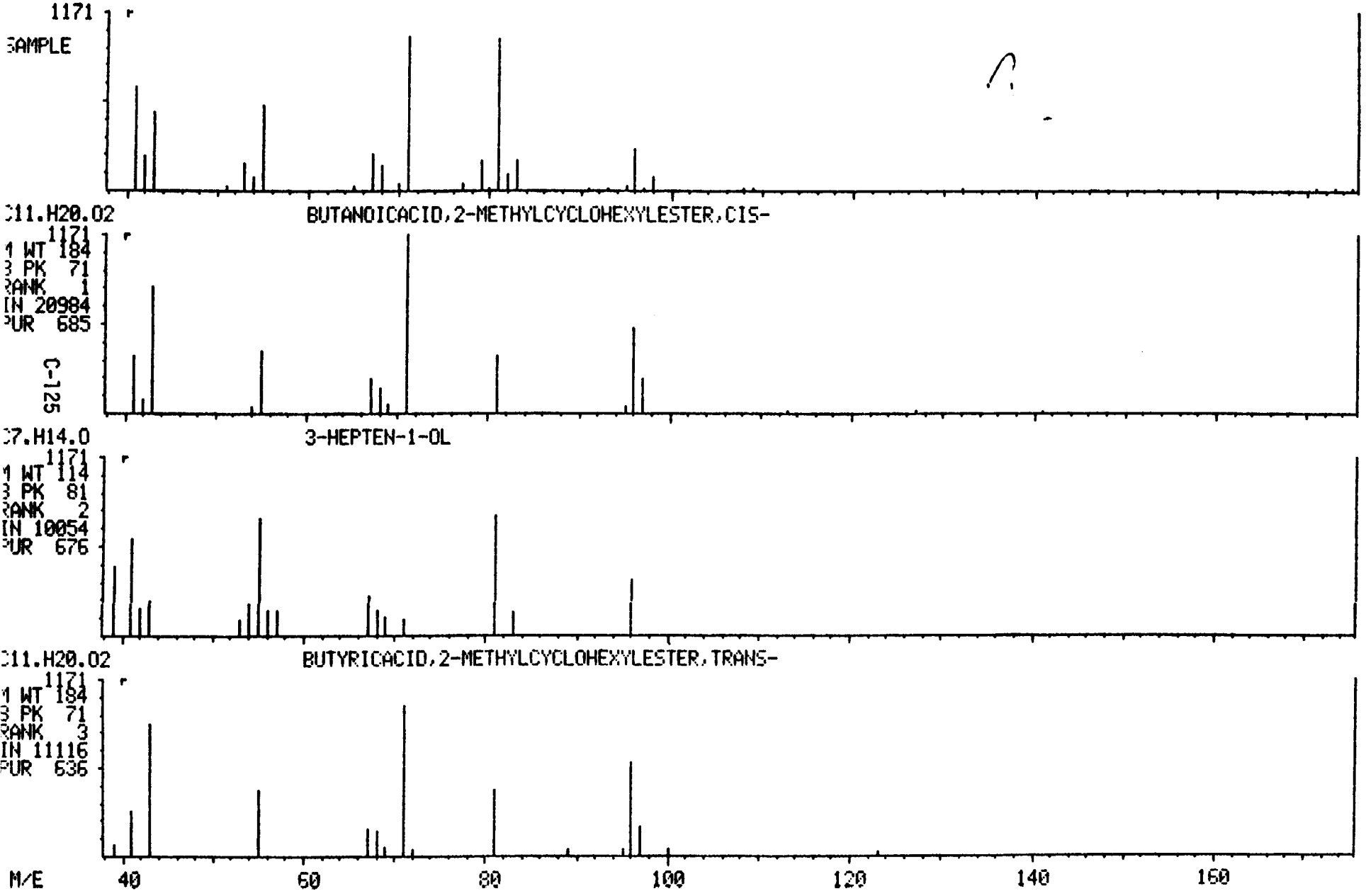
BASE M/E: 57
RIC: 231423.



LIBRARY SEARCH
07/30/85 16:07:00 + 14:00
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 420
CALI: E0281 # 6

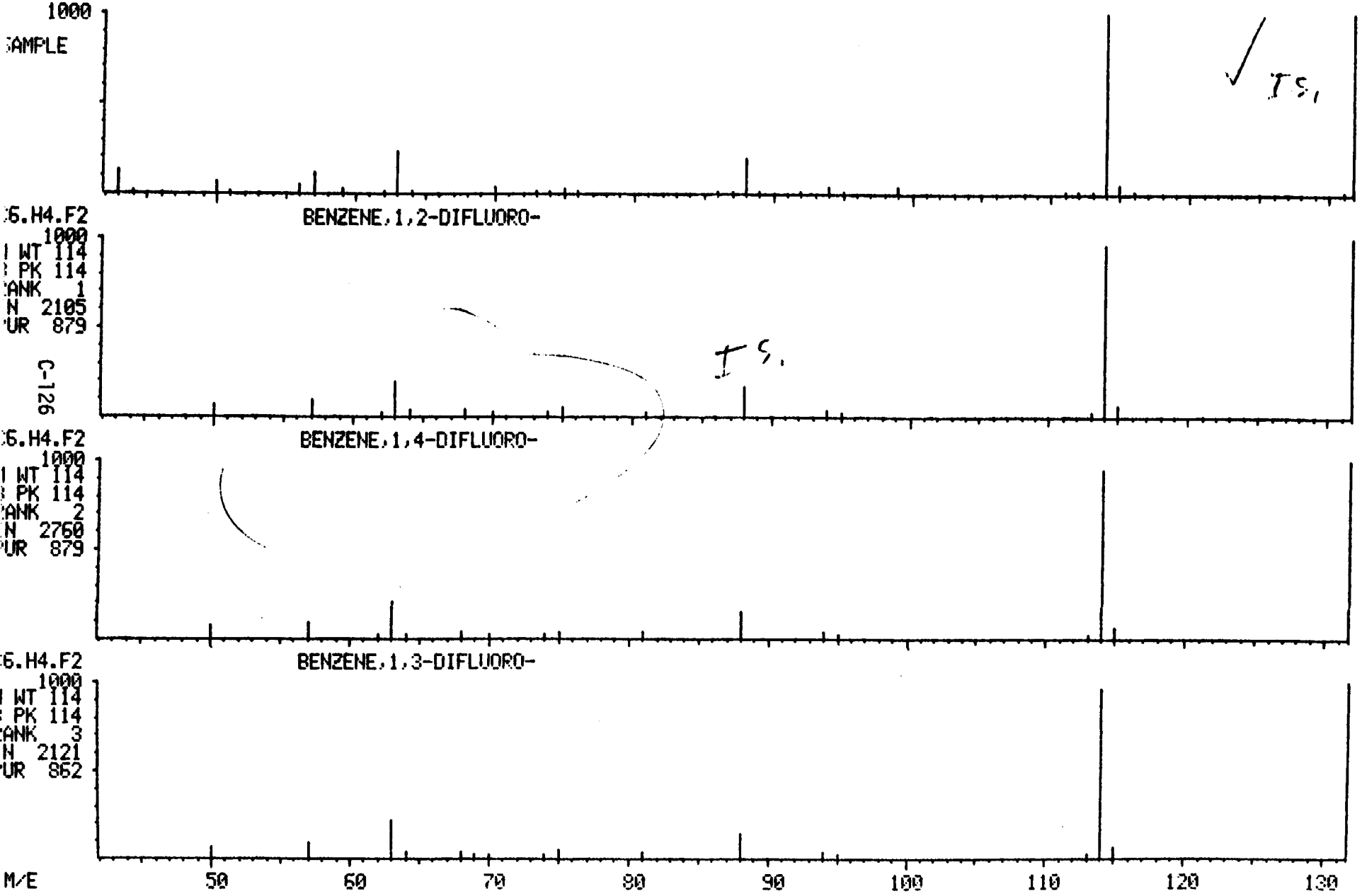
BASE M/E: 71
RIC: 174591.



LIBRARY SEARCH
07/30/85 16:07:00 + 14:12
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 426
CALI: E0281 # 6

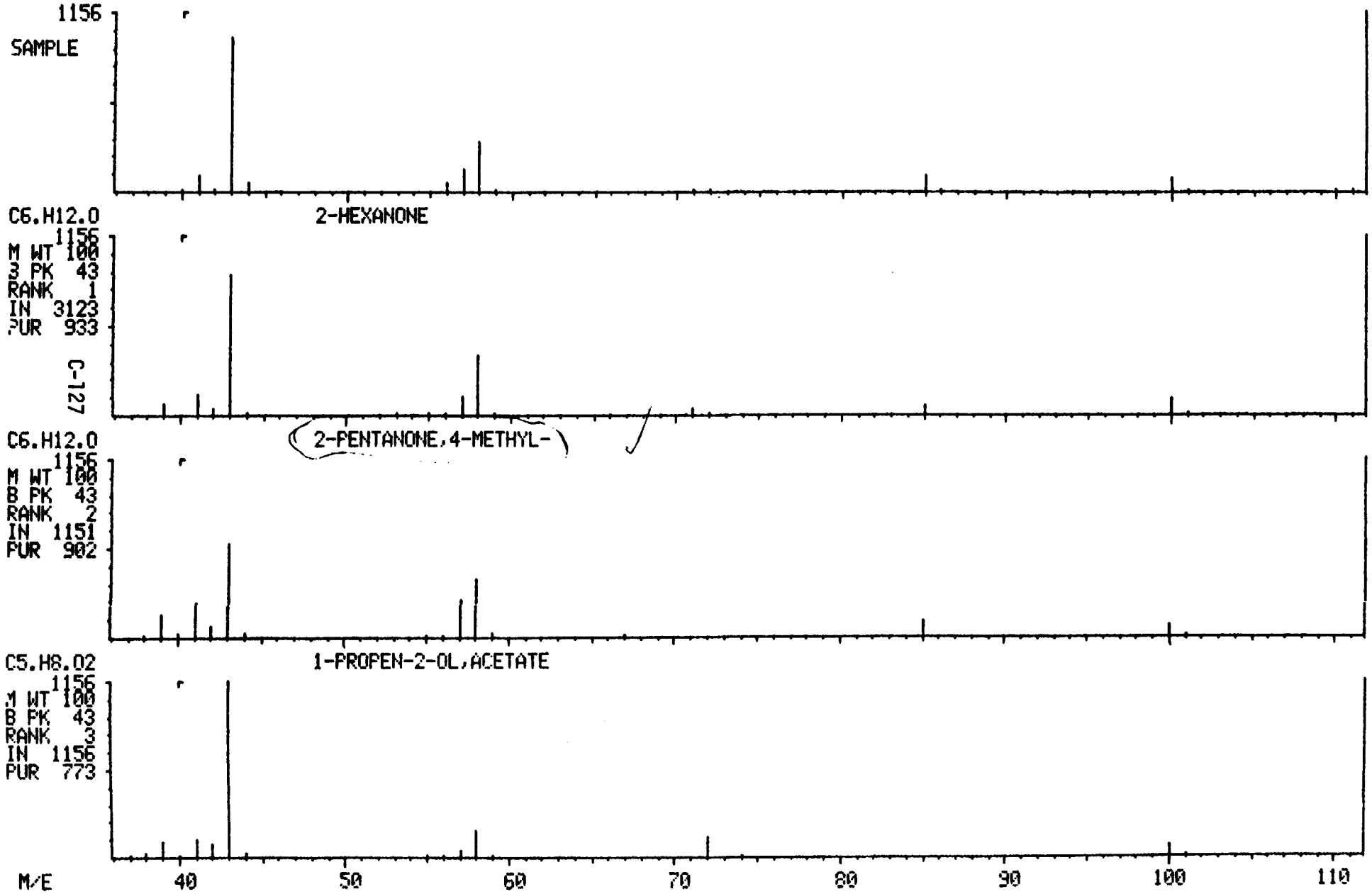
BASE M/E: 114
RIC: 217343.



LIBRARY SEARCH
07/30/85 16:07:00 + 14:36
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 438
CALI: E0281 # 6

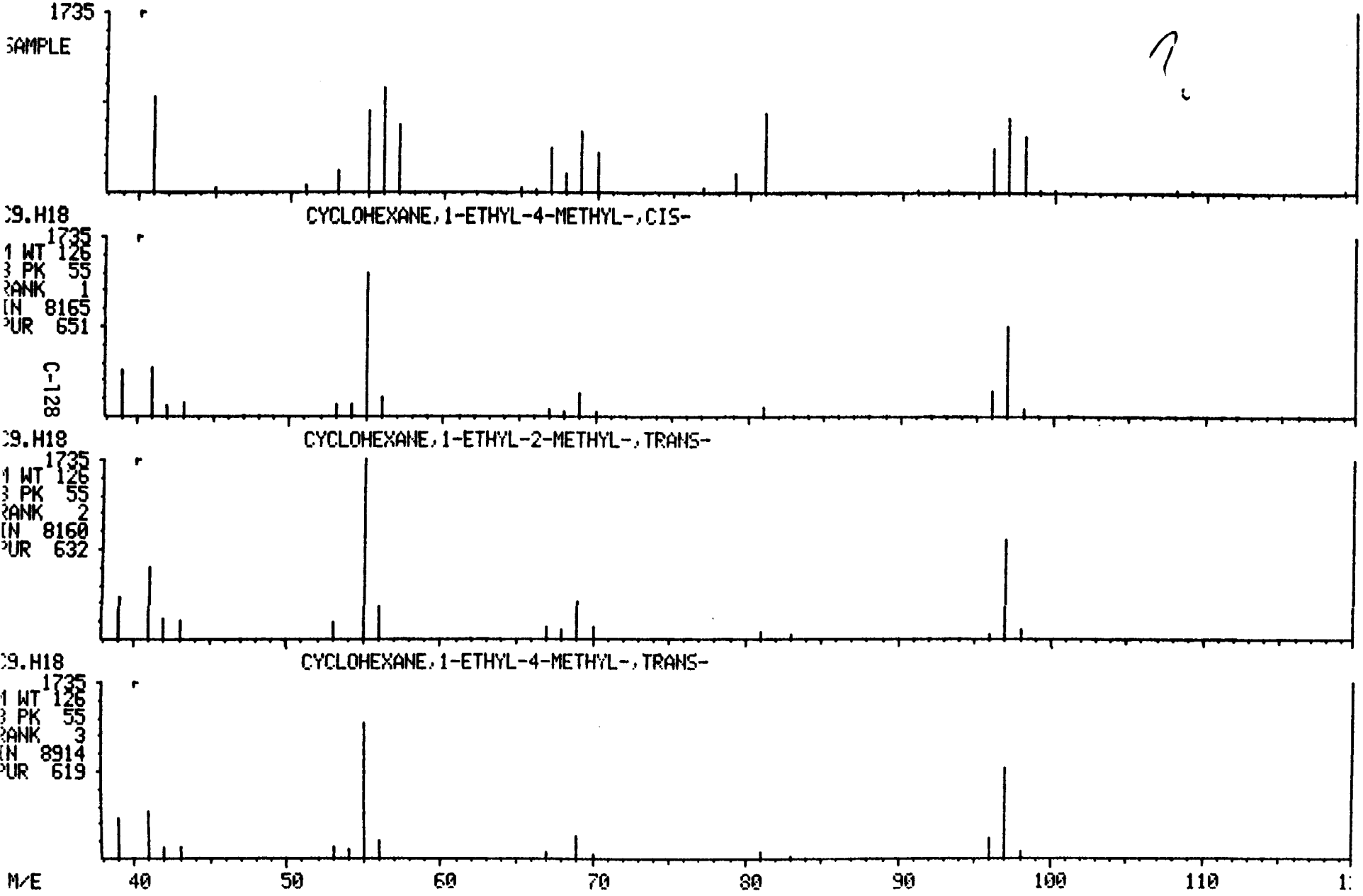
BASE M/E: 43
RIC: 68991.



LIBRARY SEARCH
07/30/85 16:07:00 + 14:52
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 446
CALI: E0281 # 6

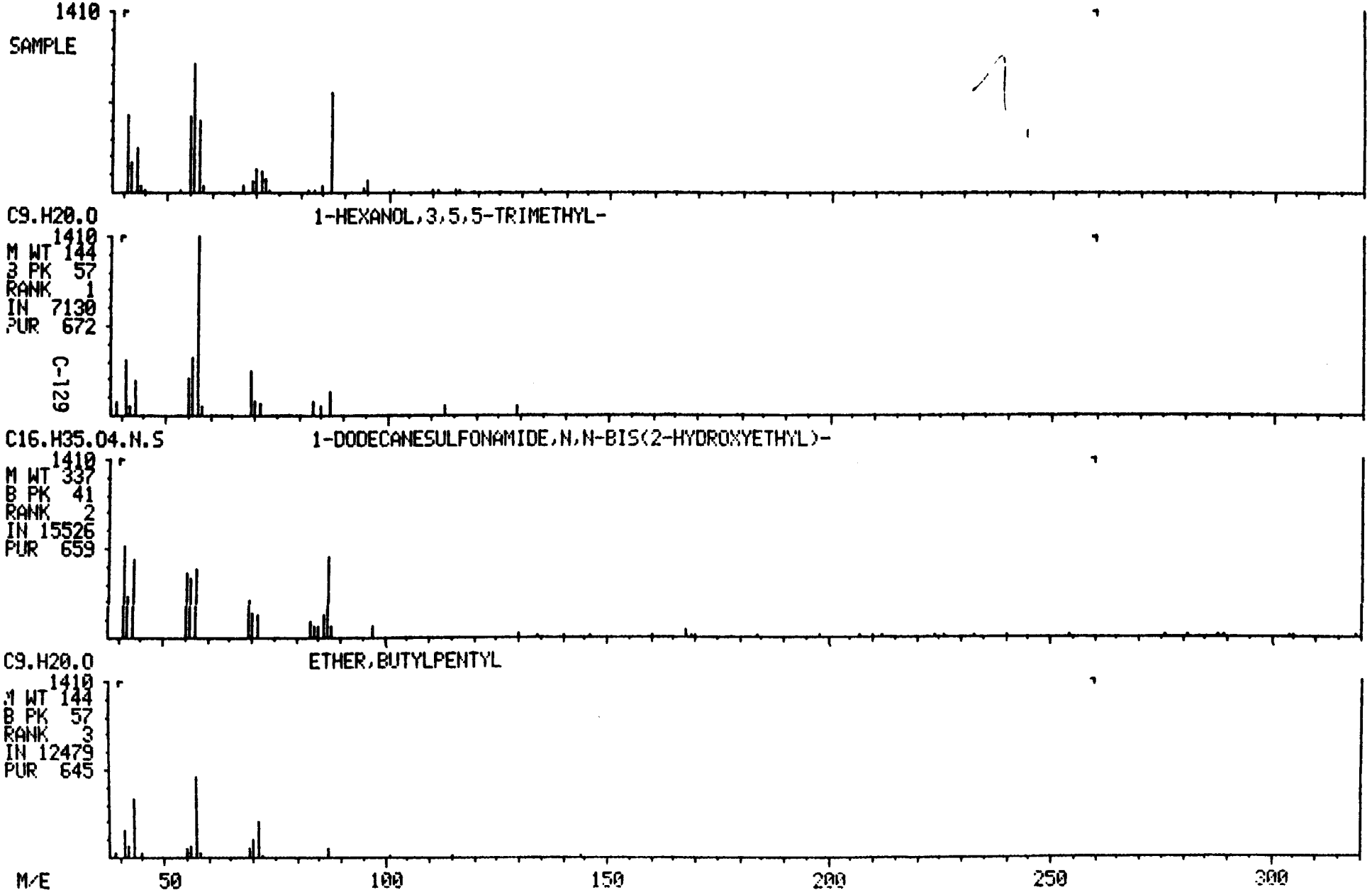
BASE M/E: 56
RIC: 328191.



LIBRARY SEARCH
07/30/85 16:07:00 + 15:12
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 456
CALI: EQ281 # 6

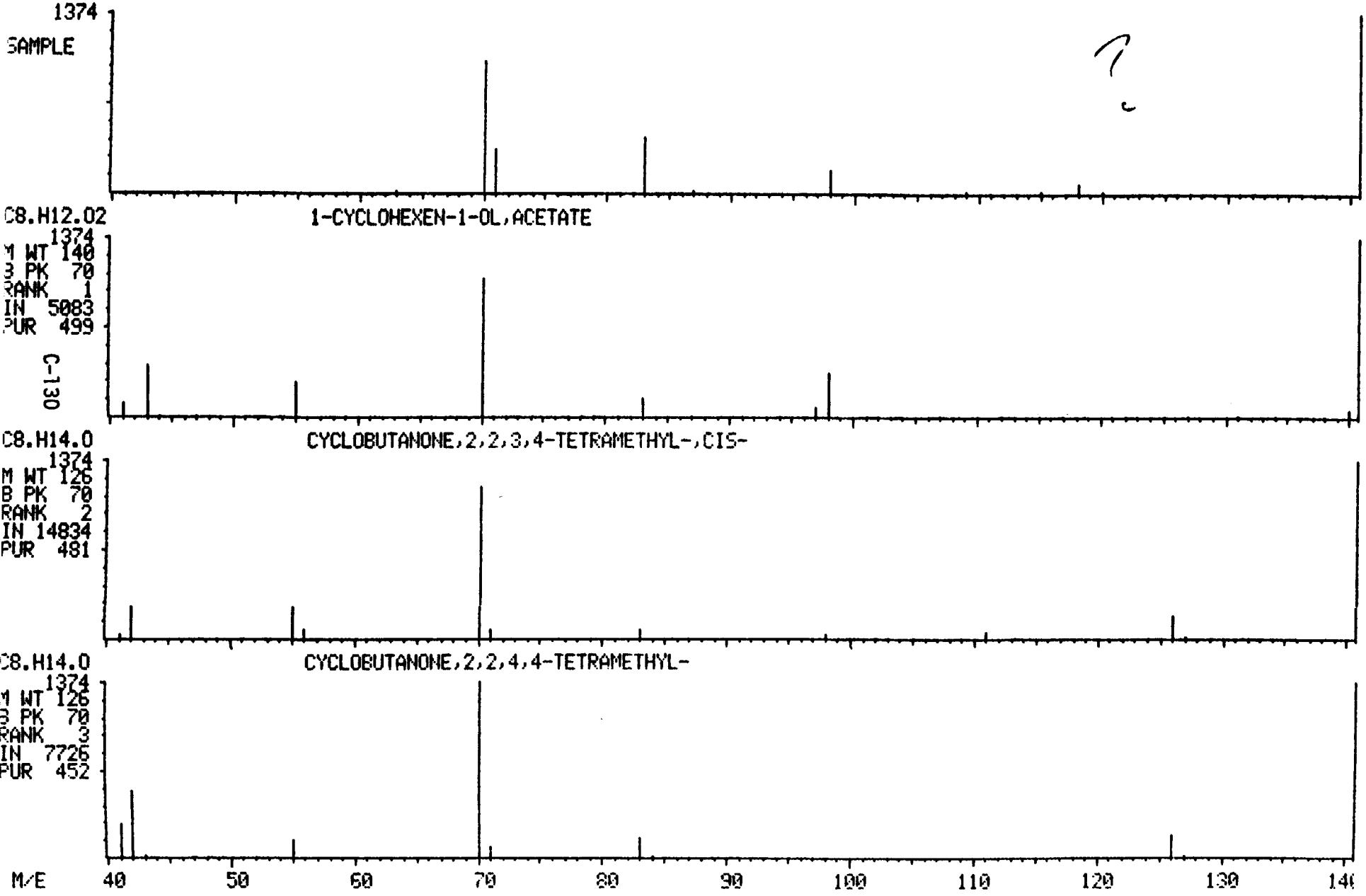
BASE M/E: 56
RIC: 146175.



LIBRARY SEARCH
07/30/85 16:07:00 + 15:34
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 467
CALI: E0281 # 6

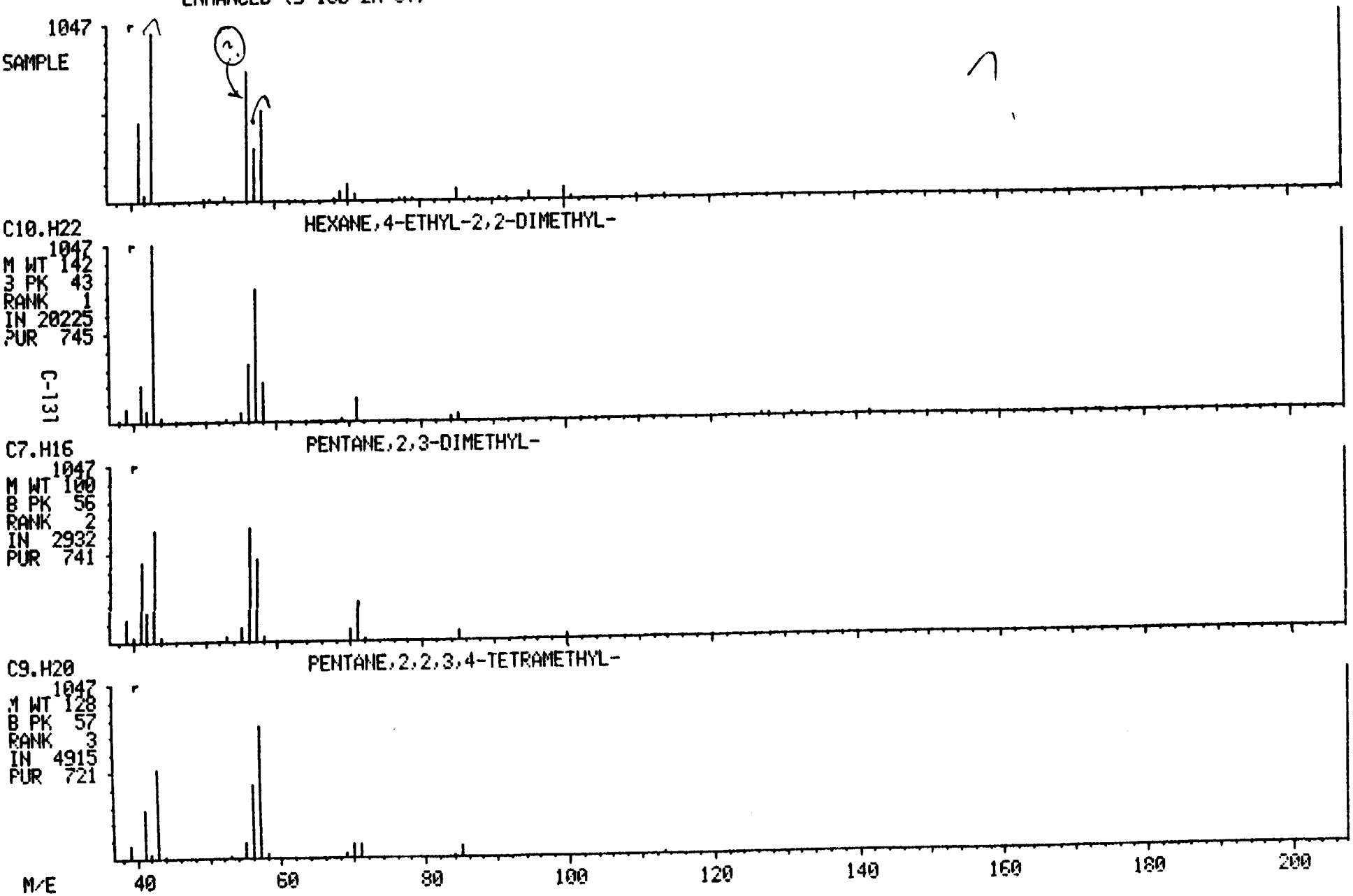
BASE M/E: 70
RIC: 17599.



LIBRARY SEARCH
07/30/85 16:07:00 + 15:40
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 470
CALI: E0281 # 6

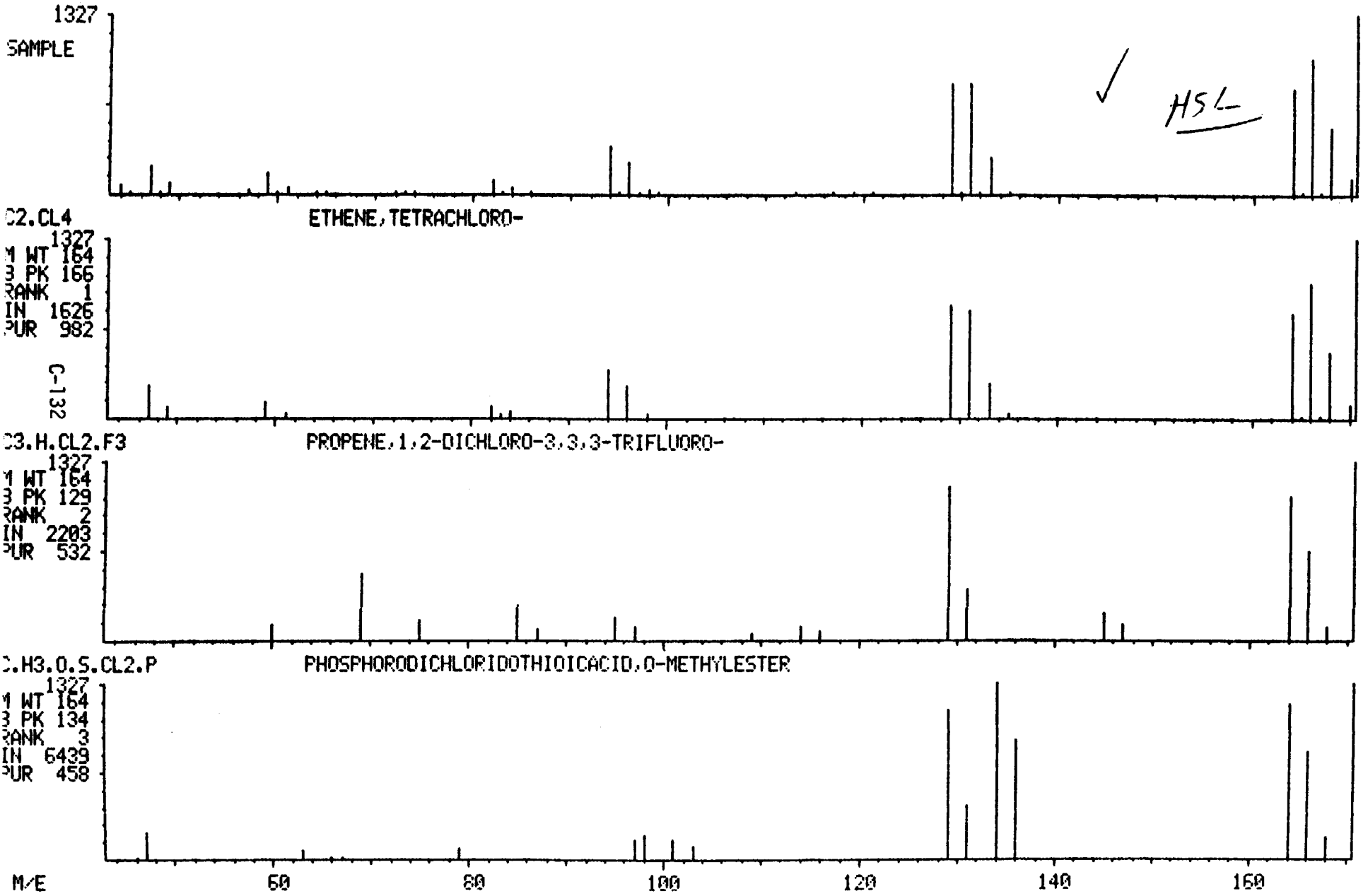
BASE M/E: 43
RIC: 219135.



LIBRARY SEARCH
07/30/85 16:07:00 + 15:48
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 474
CALI: E0281 # 6

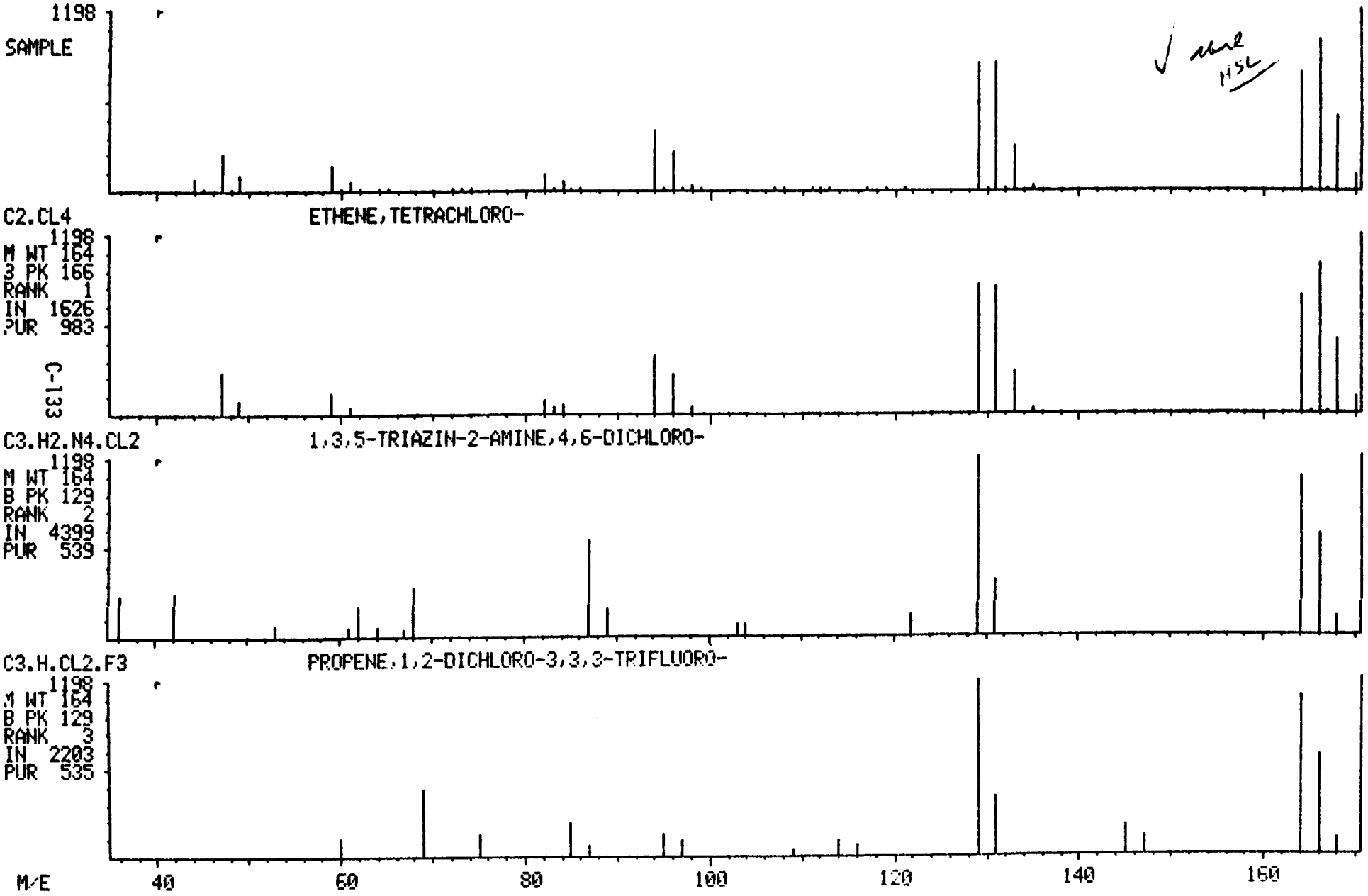
BASE M/E: 166
RIC: 1705980.



LIBRARY SEARCH
07/30/85 16:07:00 + 15:50
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 475
CALI: E0281 # 6

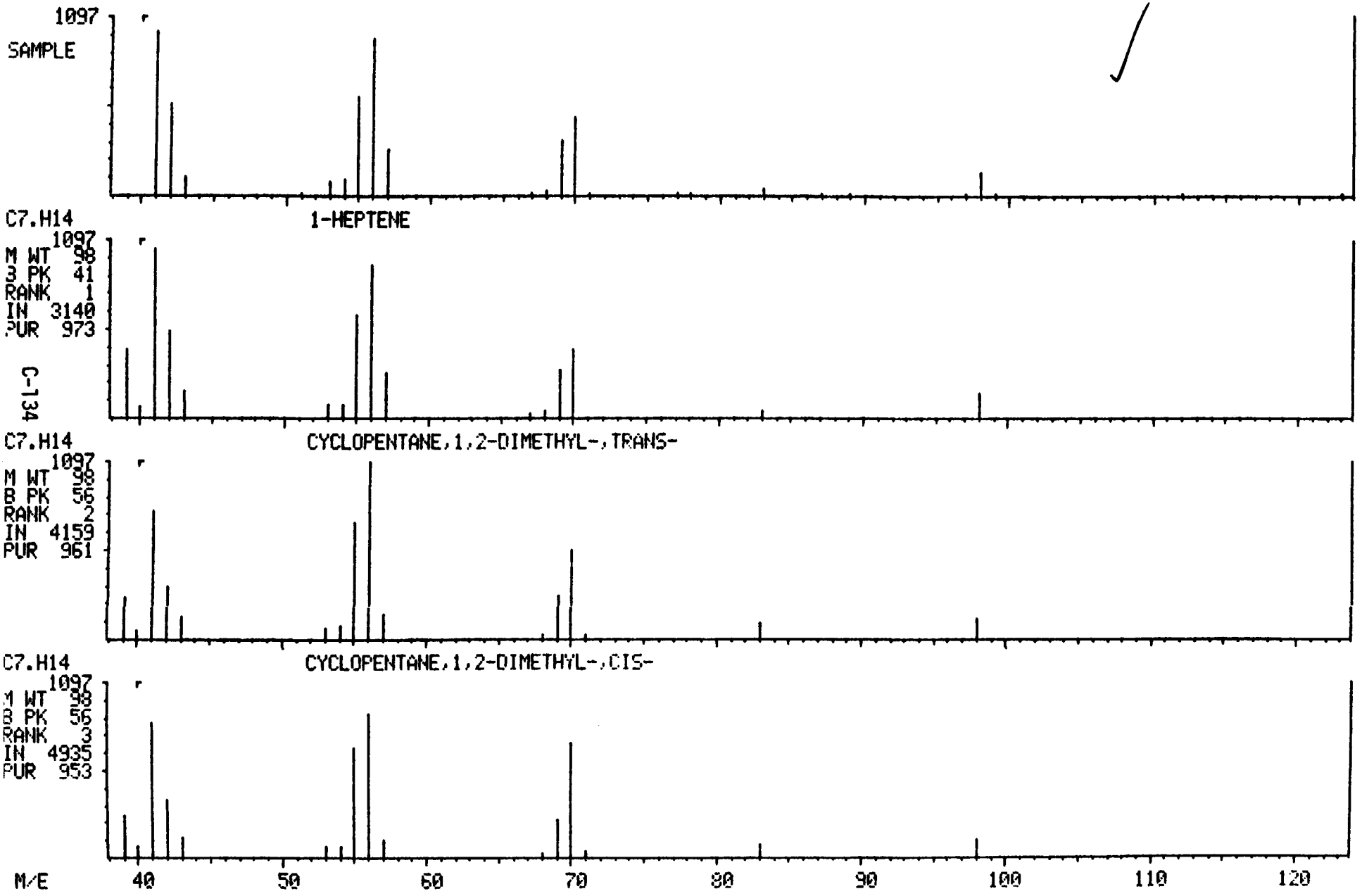
BASE M/E: 166
RIC: 1681400.



LIBRARY SEARCH
07/30/85 16:07:00 + 16:08
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 484
CALI: EQ281 # 6

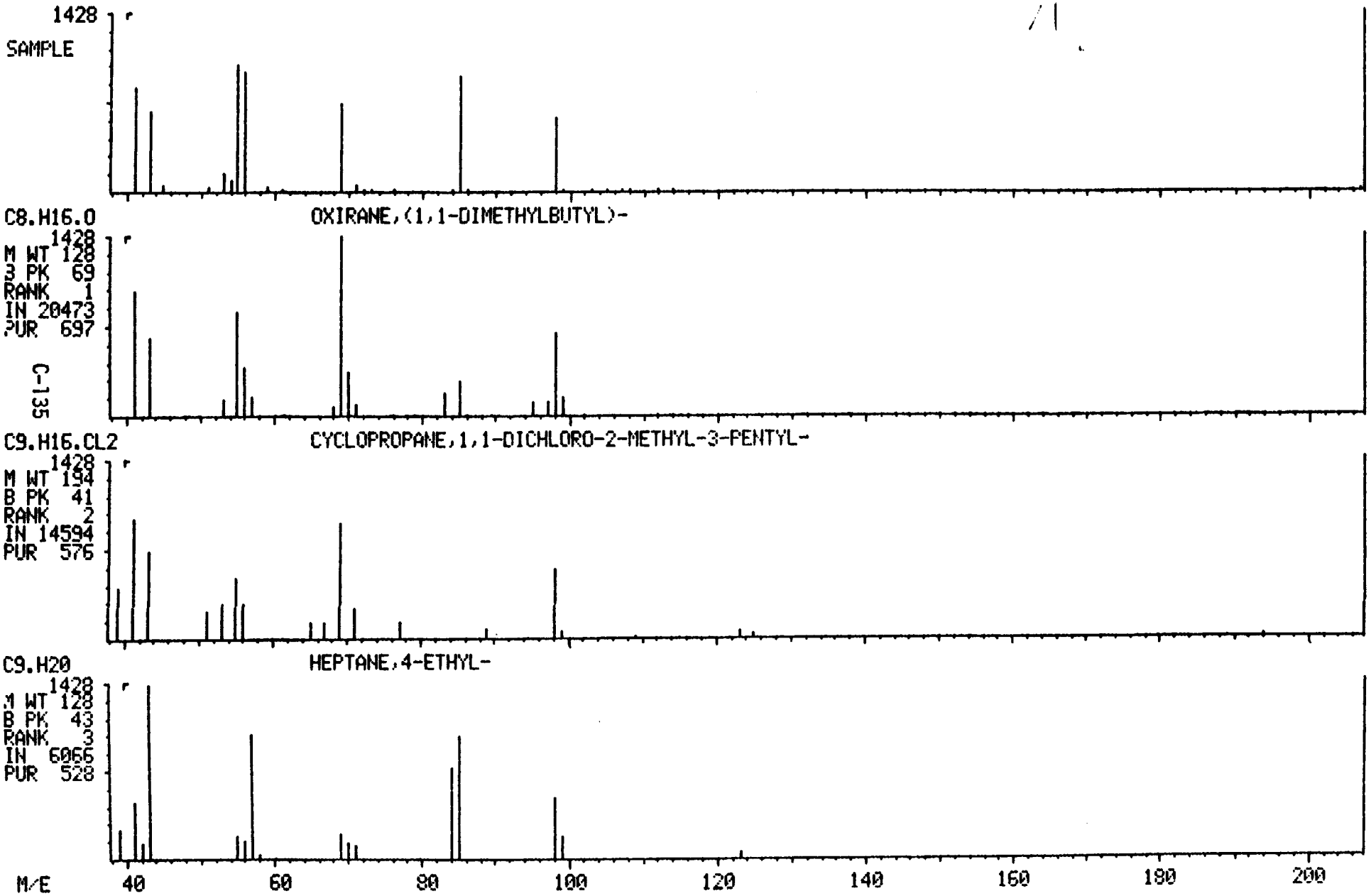
BASE M/E: 41
RIC: 1087480.



LIBRARY SEARCH
07/30/85 16:07:00 + 16:24
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 492
CALI: E0281 # 6

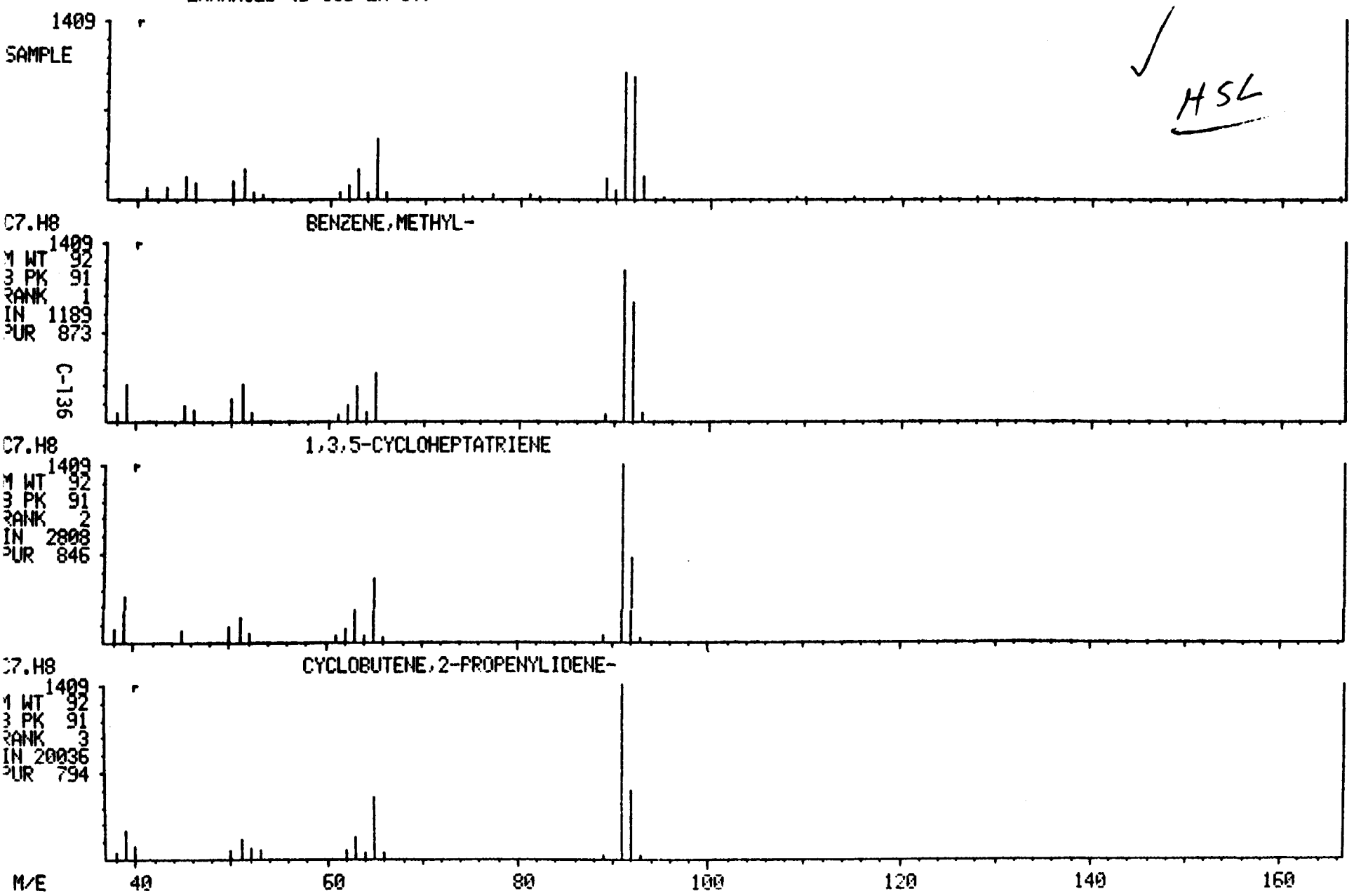
BASE M/E: 55
RIC: 105983.



LIBRARY SEARCH
07/30/85 16:07:00 + 16:50
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 505
CALI: EQ281 # 6

BASE M/E: 91
RIC: 2781180.

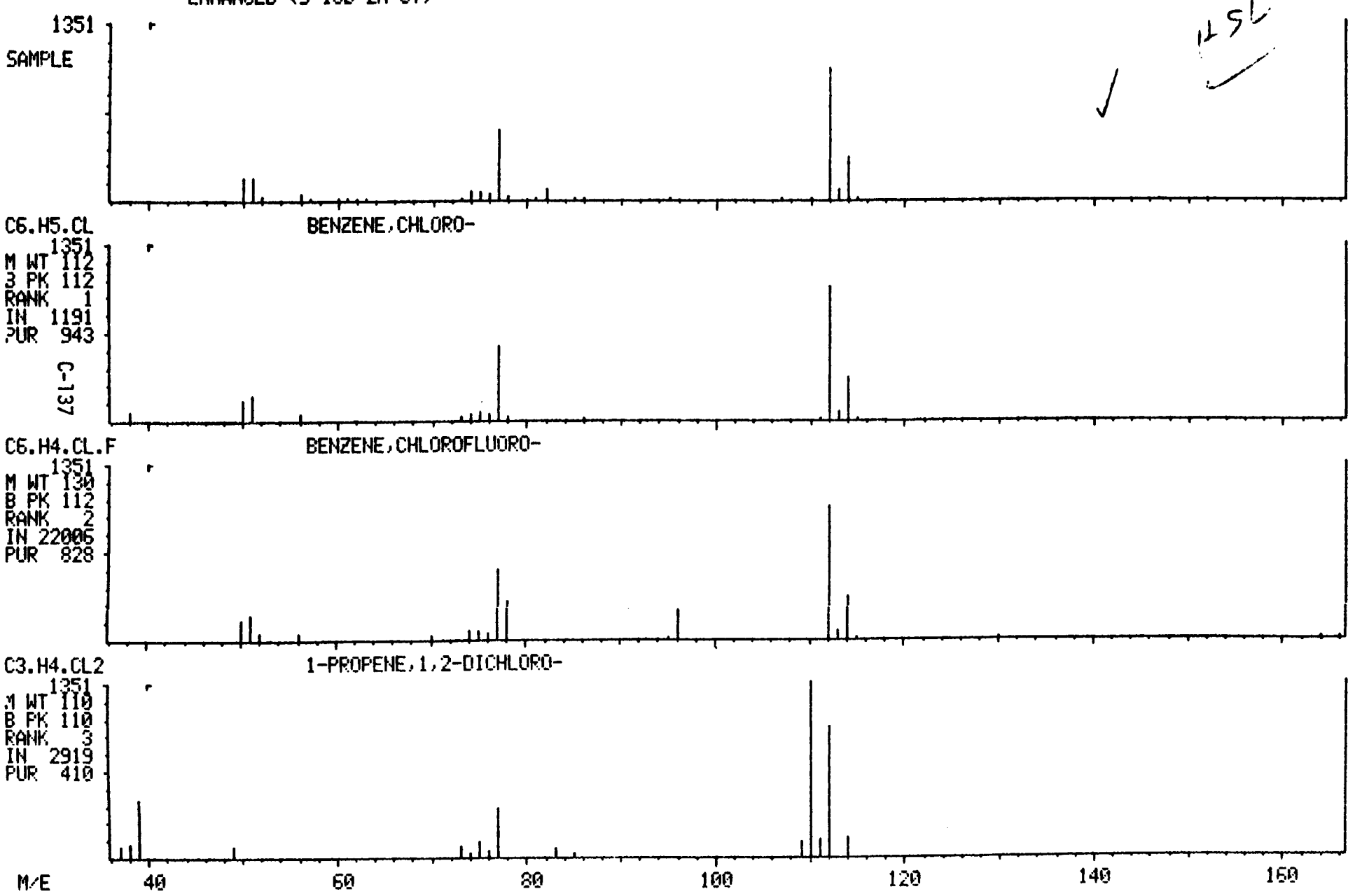


HSL

LIBRARY SEARCH
07/30/85 16:07:00 + 17:32
SAMPLE: R8462 V0-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 526
CALI: E0281 # 6

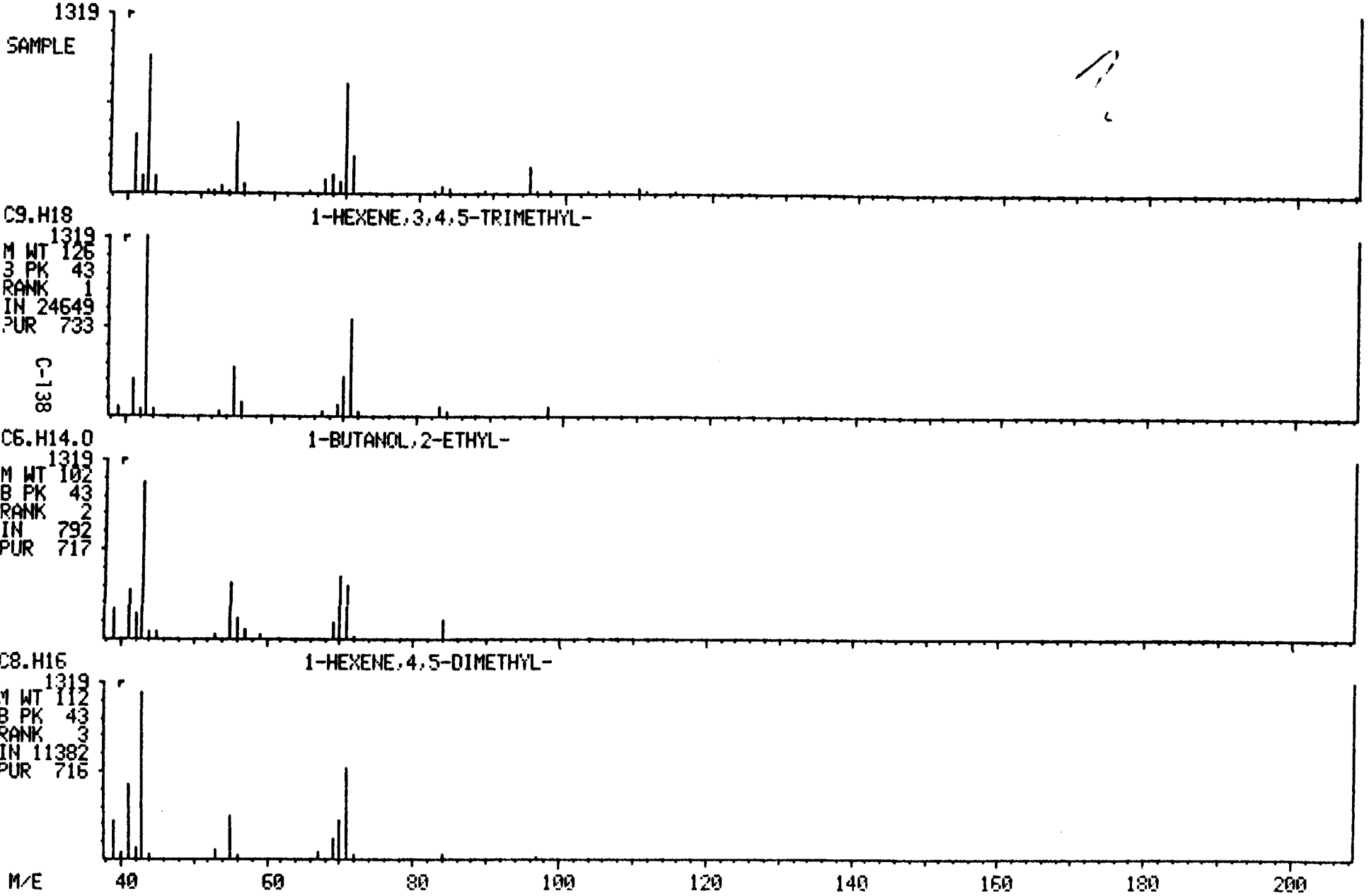
BASE M/E: 112
RIC: 819139.



LIBRARY SEARCH
07/30/85 16:07:00 + 18:08
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 544
CALI: EQ281 # 6

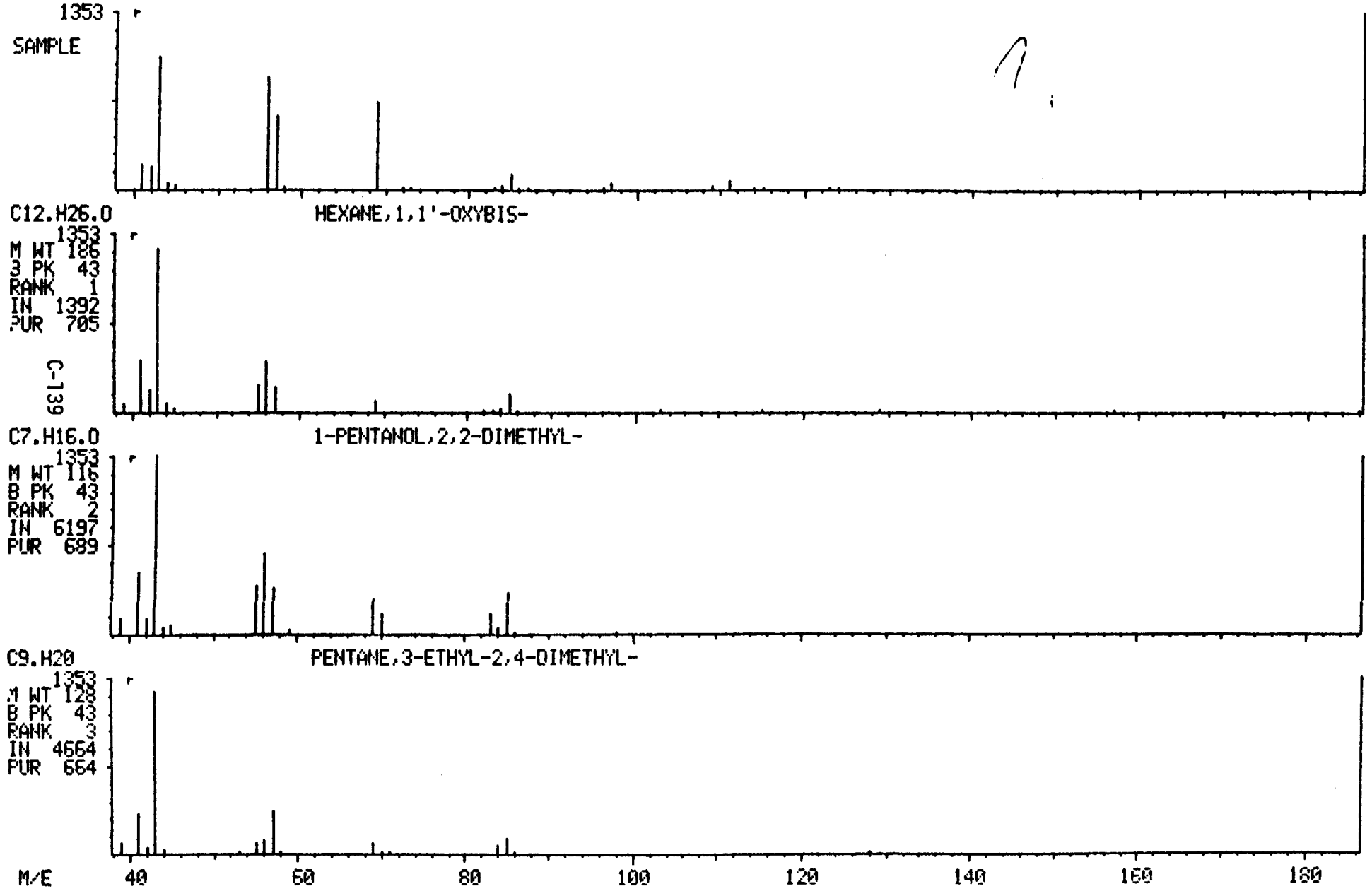
BASE M/E: 43
RIC: 114559.



LIBRARY SEARCH
07/30/85 16:07:00 + 18:30
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 555
CALI: E0281 # 6

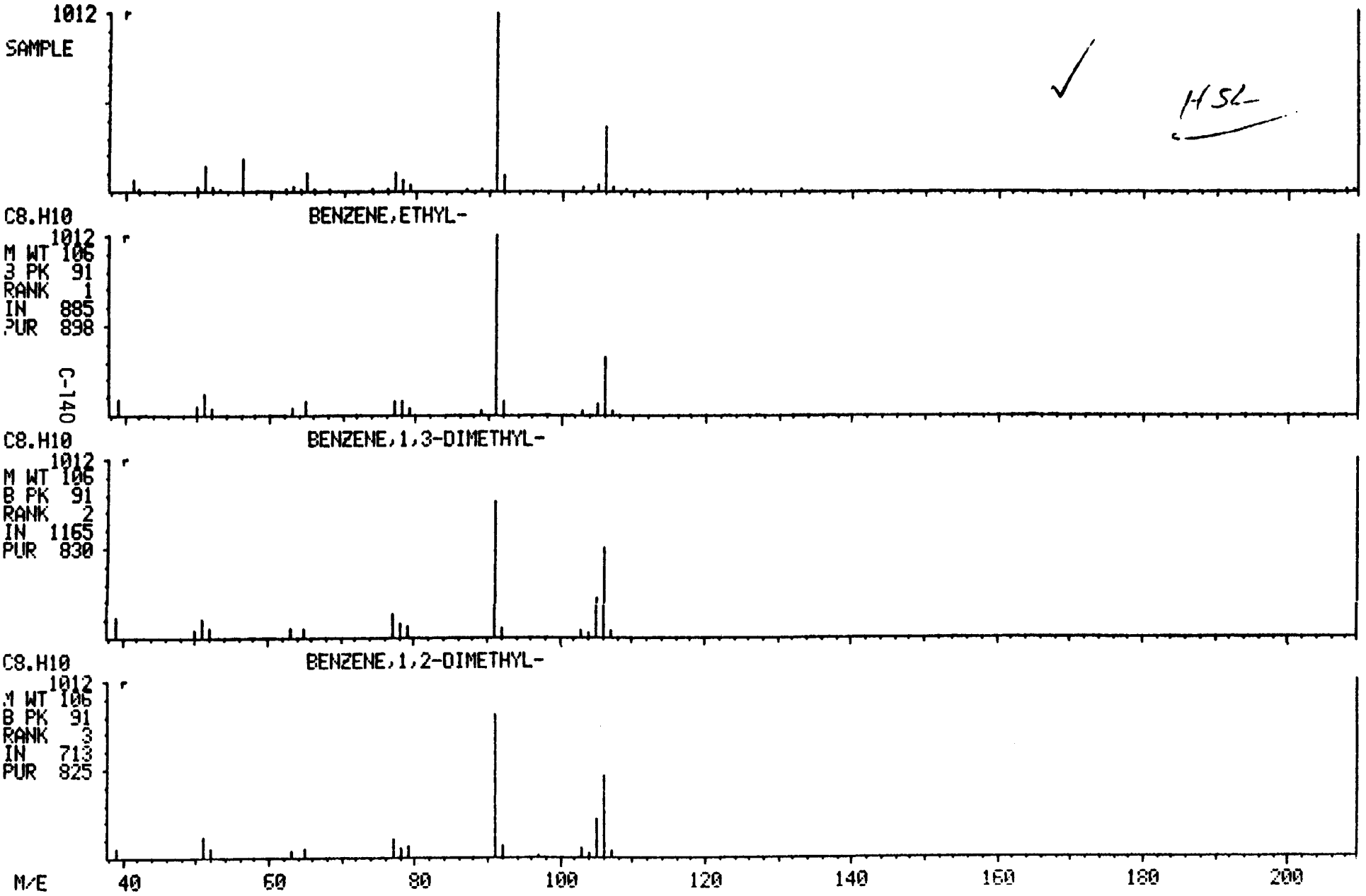
BASE M/E: 43
RIC: 72831.



LIBRARY SEARCH
07/30/85 16:07:00 + 18:56
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 568
CALI: EQ281 # 6

BASE M/E: 91
RIC: 476671.

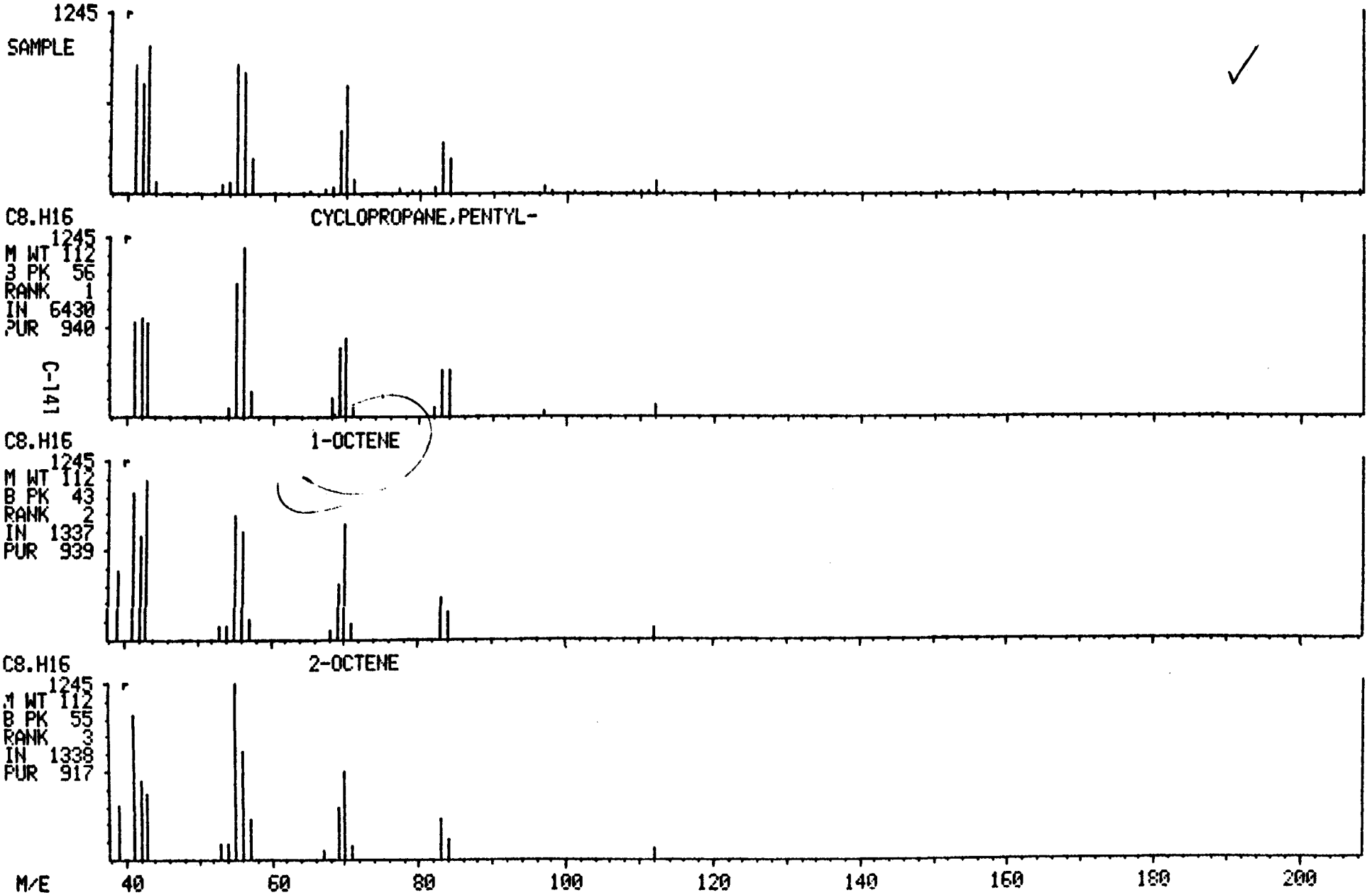


C-140

LIBRARY SEARCH
07/30/85 16:07:00 + 13:32
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 586
CALI: EQ281 # 6

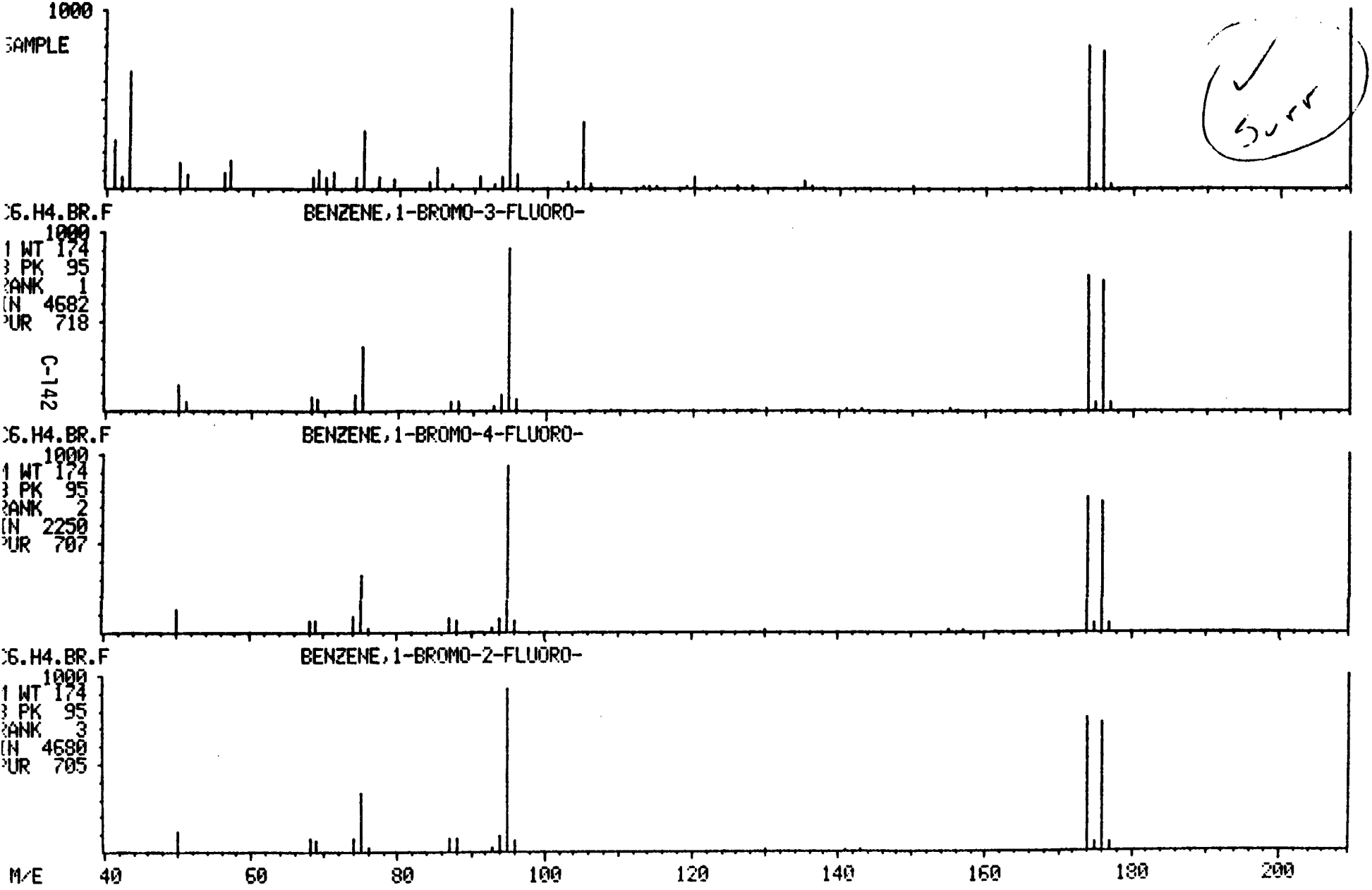
BASE M/E: 43
RIC: 591871.



LIBRARY SEARCH
07/30/85 16:07:00 + 20:32
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 616
CALI: E0281 # 6

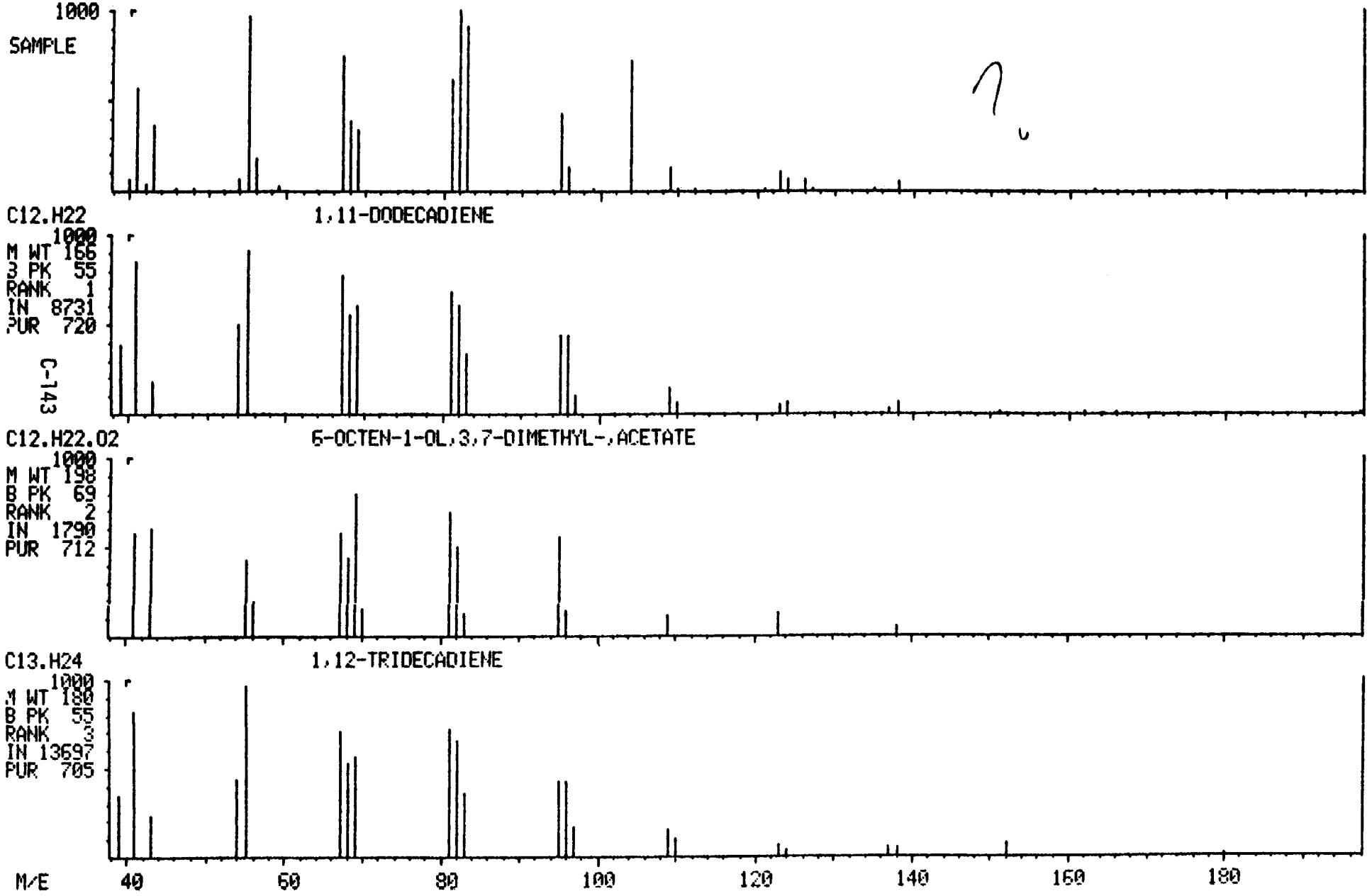
BASE M/E: 95
RIC: 194303.



LIBRARY SEARCH
07/30/85 16:07:00 + 21:48
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 654
CALI: EQ281 # 6

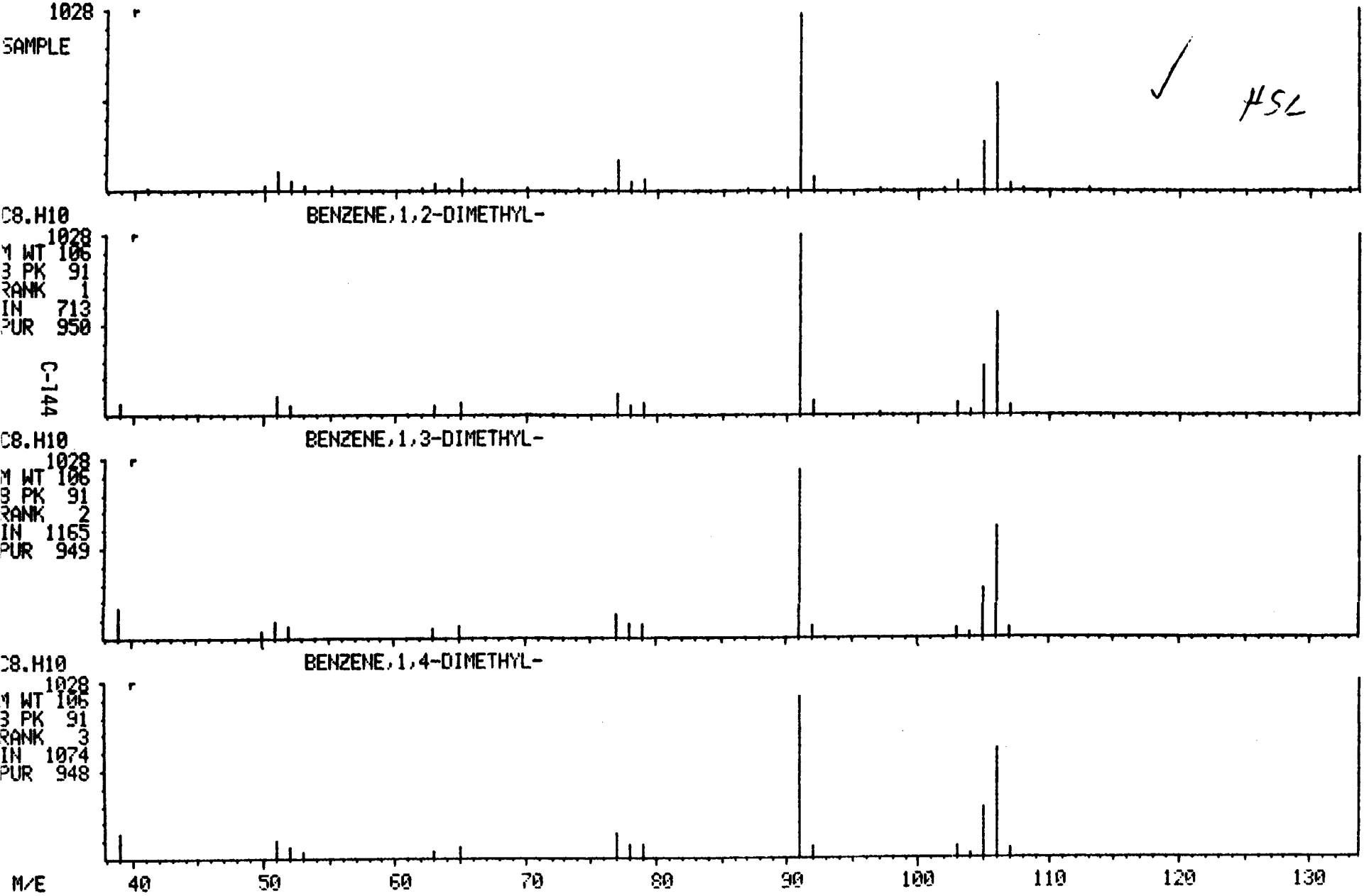
BASE M/E: 82
RIC: 27615.



LIBRARY SEARCH
07/30/85 16:07:00 + 21:53
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 659
CALI: E0281 # 6

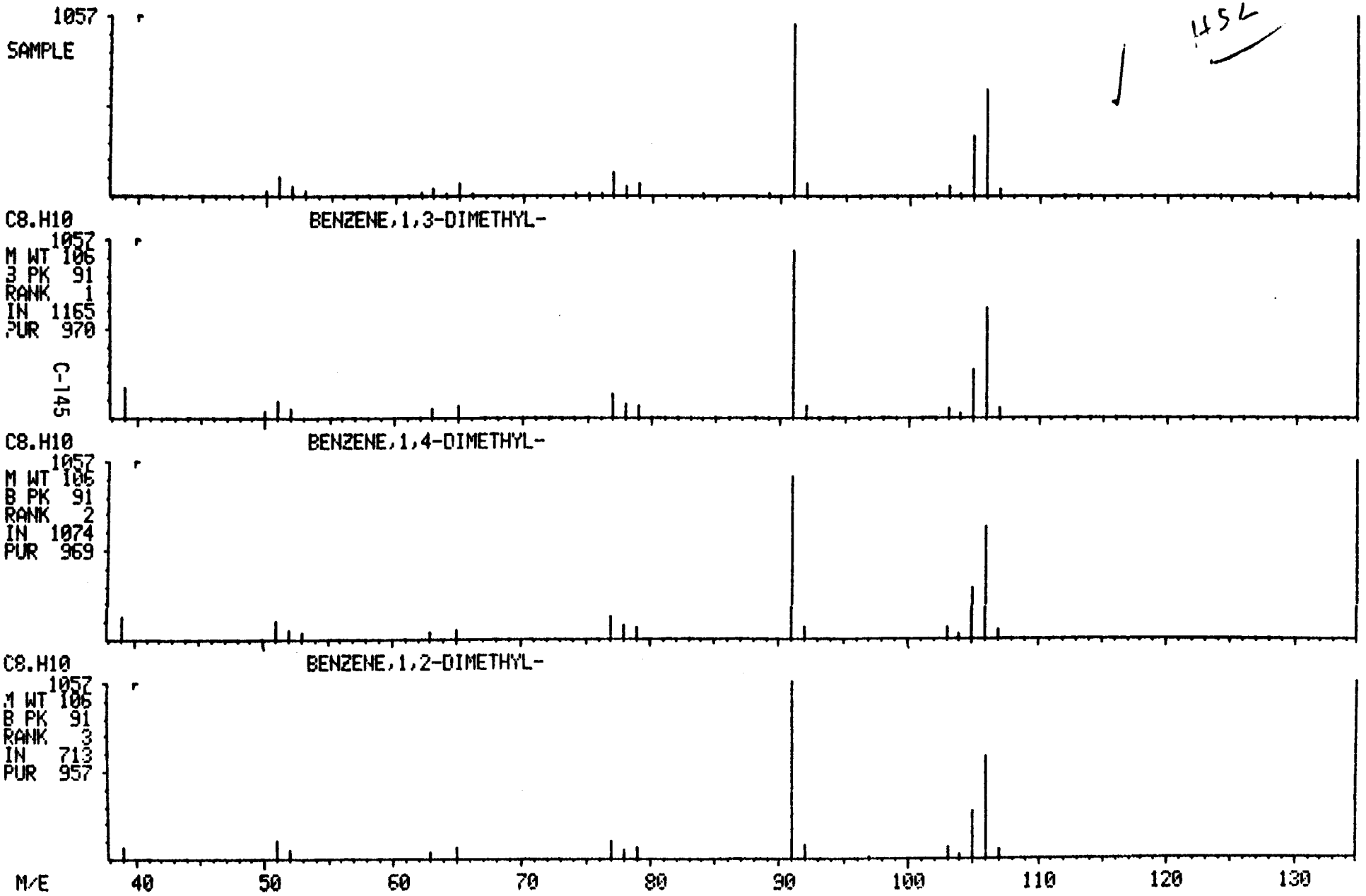
BASE M/E: 91
RIC: 271871.



LIBRARY SEARCH
07/30/85 16:07:00 + 22:40
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 680
CALI: EQ281 # 6

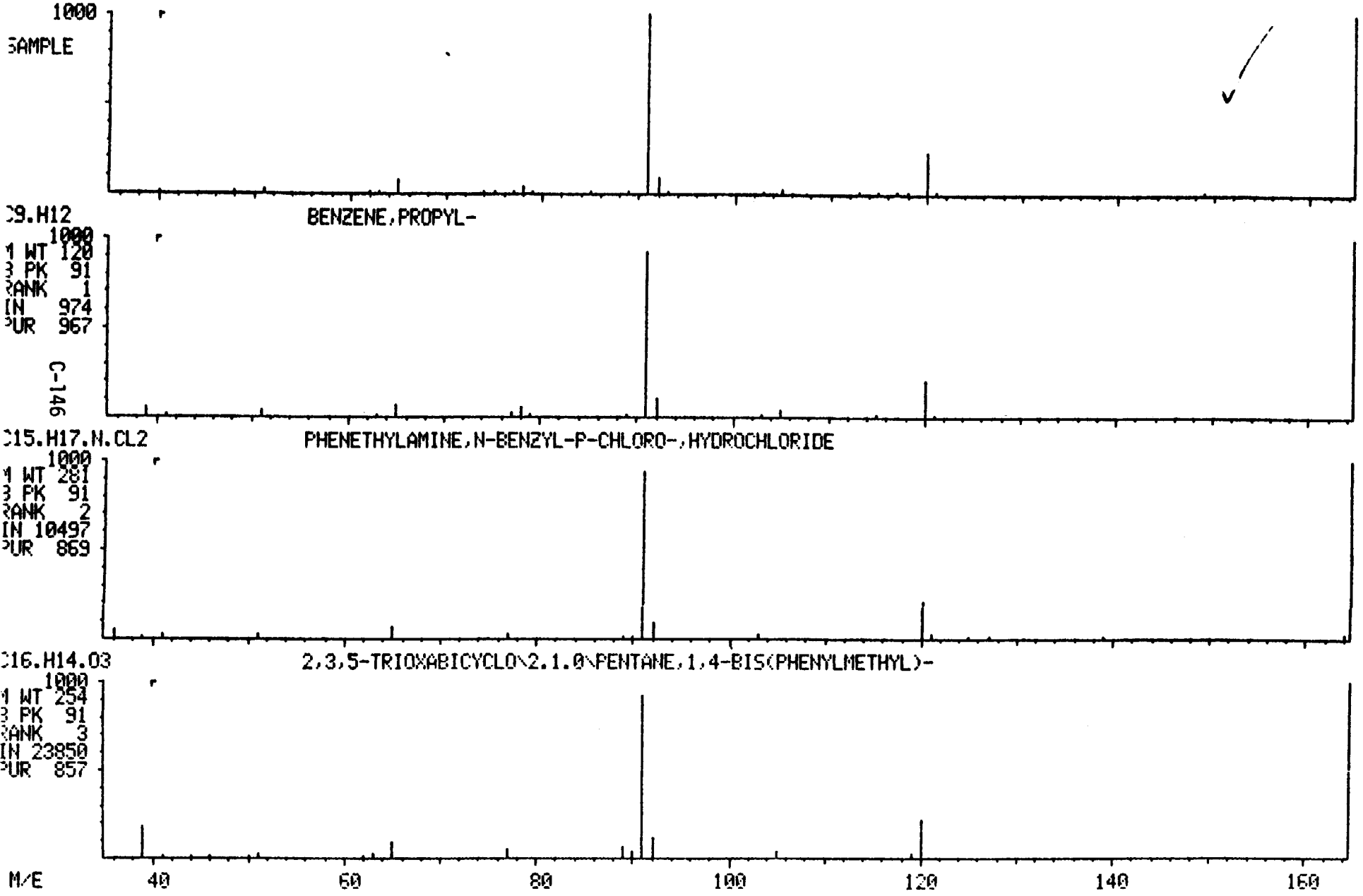
BASE M/E: 91
RIC: 177151.



LIBRARY SEARCH
07/30/85 16:07:00 + 23:46
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: E0281 # 713
CALI: E0281 # 6

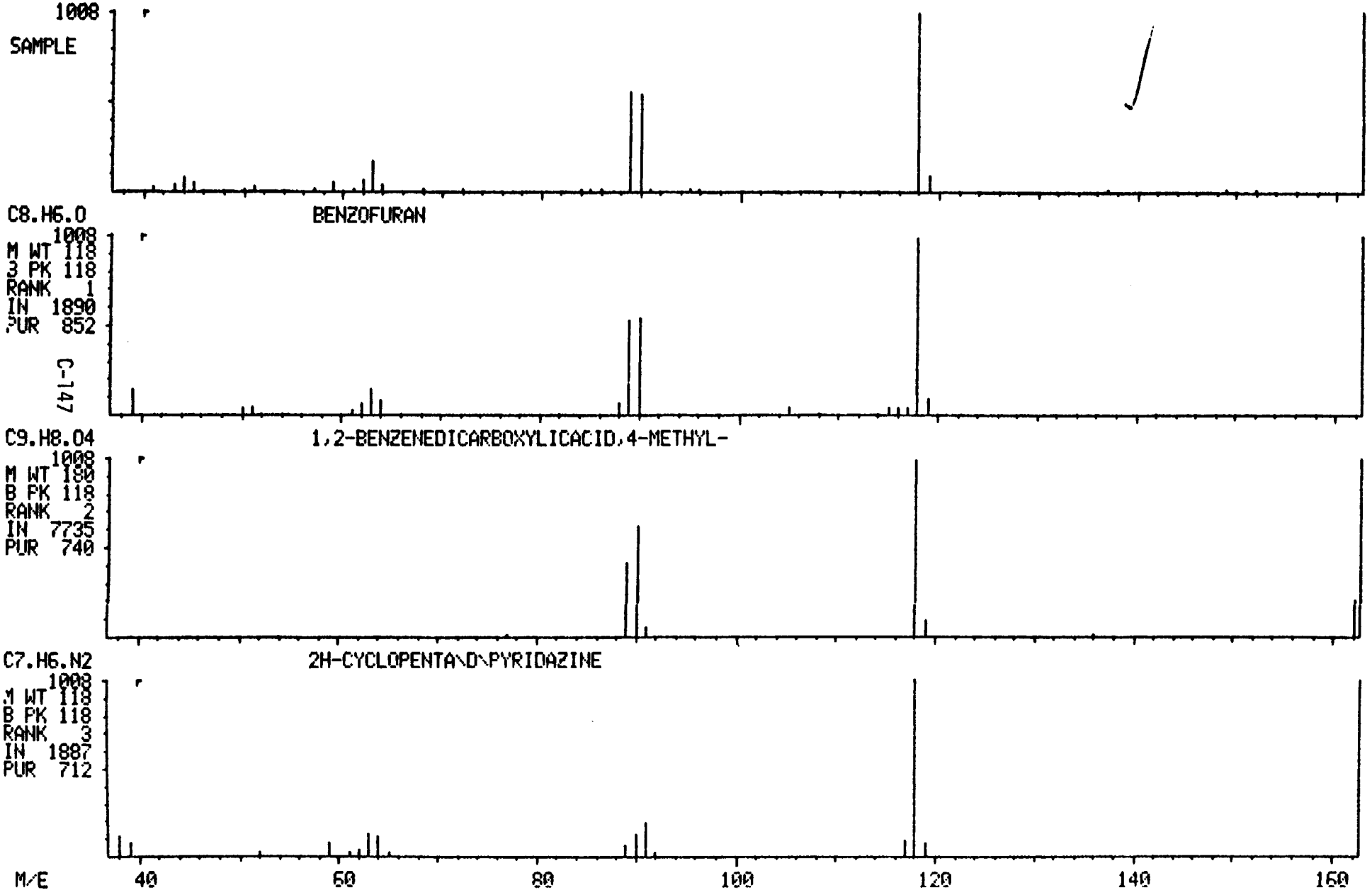
BASE M/E: 91
RIC: 44991.

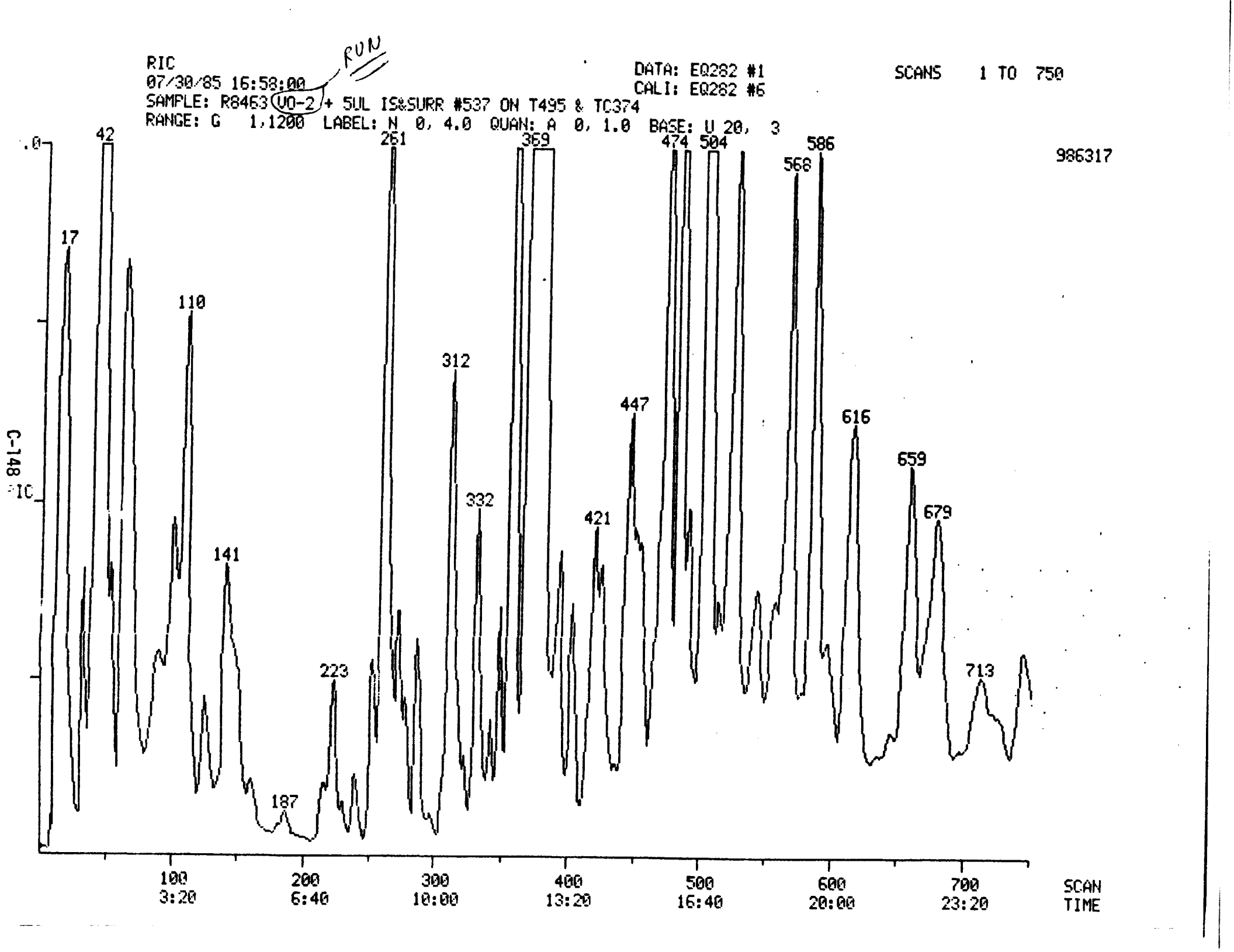


LIBRARY SEARCH
07/30/85 16:07:00 + 24:48
SAMPLE: R8462 VO-1 + 5UL IS&SURR #537 ON T510 & TC57
ENHANCED (S 15B 2N 0T)

DATA: EQ281 # 744
CALI: EQ281 # 6

BASE M/E: 118
RIC: 94079.




RIC
07/30/85 16:58:00
RUN
SAMPLE: R8463 VO-2 + 5UL IS&SURR #537 ON T495 & TC374
RANGE: G 1.1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
DATA: EQ282 #1
CALI: EQ282 #6
SCANS 1 TO 750
986317
C-148 RIC
17
42
110
141
187
223
261
312
332
369
421
447
474
504
568
586
616
659
679
713
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

QUANTITATION REPORT FILE: EQ282

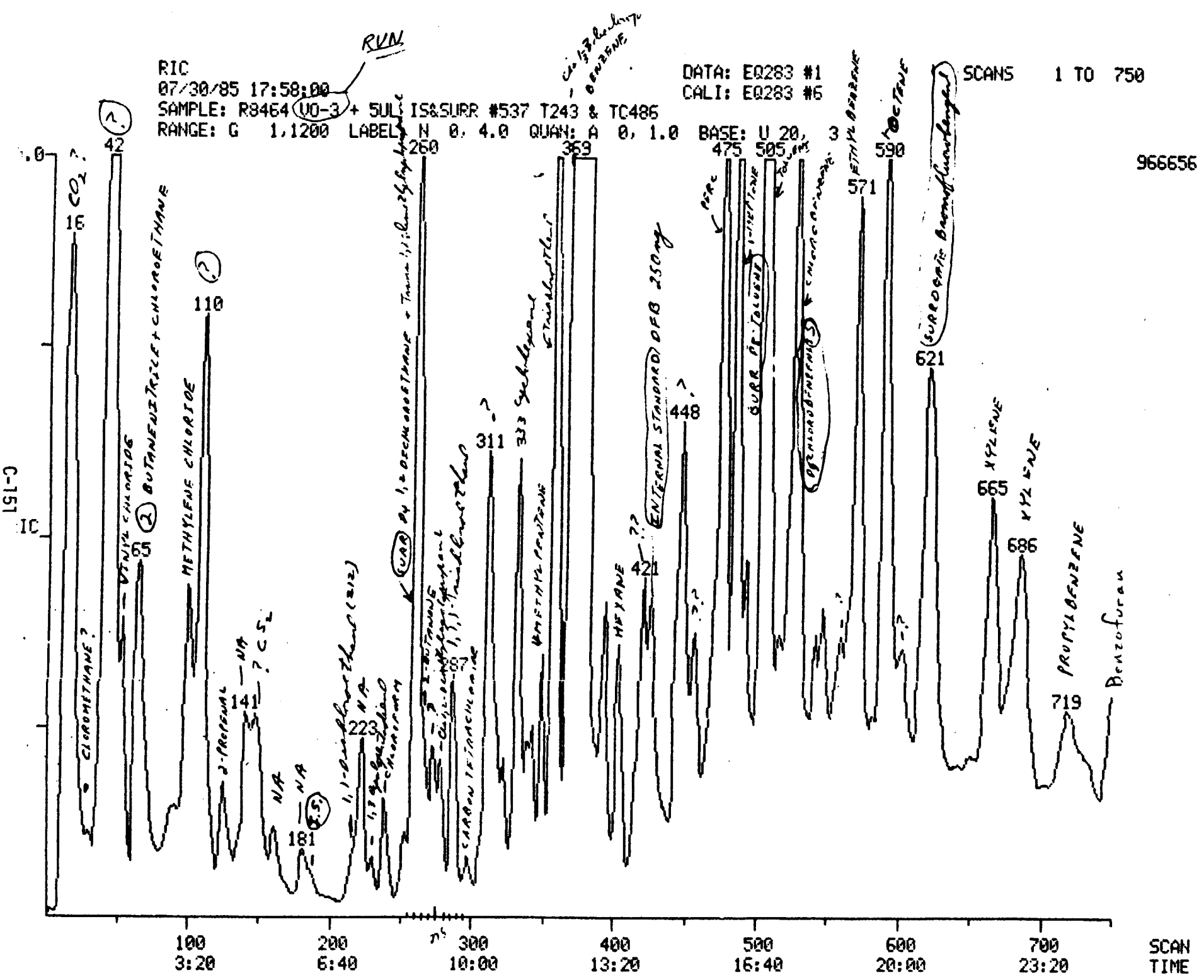
DATA: EQ282.TI
07/30/85 16:58:00
SAMPLE: R8463 VO-2 + 5UL IS&SURR #537 ON T495 & TC374
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
7	CHLOROMETHANE (50) * *
8	VINYL CHLORIDE (62) *
9	CHLOROETHANE (64)
10	METHYLENE CHLORIDE (84)
11	ACETONE (43)
12	CARBON DISULFIDE (76)
13	1,1-DICHLOROETHENE (96) * $
14	1,1-DICHLOROETHANE (63)
15	TRANS-1,2-DICHLOROETHENE (96)
16	CHLOROFORM (83) *
17	1,2-DICHLOROETHANE (62)
18	2-BUTANONE (72)
19	1,1,1-TRICHLOROETHANE (97)
20	VINYL ACETATE (43)
21	BROMODICHLOROMETHANE (83)
22	1,2-DICHLOROPROPANE (63)
23	TRANS-1,3-DICHLOROPROPENE (75)
24	TRICHLOROETHENE (130) $
25	DIBROMOCHLOROMETHANE (129)
26	BENZENE (78) $
27	CIS-1,3-DICHLOROPROPENE (75)
28	2-HEXANONE (43)
29	4-METHYL-2-PENTANONE (43)
30	TETRACHLOROETHENE (164)
31	1,1,2,2-TETRACHLOROETHANE (83)
32	TOLUENE (92) * $
33	CHLOROBENZENE (112) * * $
34	ETHYLBENZENE (106) *
35	STYRENE (104)
36	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	187	6:14	1	1.000	A BB	26489.	250.000	NG OC	0.79
2	114	426	14:12	2	1.000	A BB	431397.	250.000	NG OC	0.79
3	117	524	17:28	3	1.000	A BB	314296.	250.000	NG OC	0.79
4	65	258	8:36	1	1.380	A BV	52415.	251.484	NG OC	0.80
5	98	501	16:42	2	1.176	A BB	328595.	244.021	NG OC	0.78
6	95	617	20:34	3	1.177	A VB	313212.	332.853	NG OC	1.06
7	50	32	1:04	1	0.171	A BV	66154.	484.356	NG OC	1.54
8	62	55	1:50	1	0.294	A VB	782506.	4621.450	NG OC	14.70

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
9	64	67	2:14	1	0.358	A BB	6188.	60.888	NG OC	0.19
10	84	101	3:22	1	0.540	A BB	526217.	1670.120	NG OC	5.31
11	43	125	4:10	1	0.668	A BV	621548.	1791.290	NG OC	5.70
12	76	150	5:00	1	0.802	A BB	679486.	890.392	NG OC	2.83
13	96	182	6:04	1	0.973	A BB	13139.	55.664	NG OC	0.18
14	63	211	7:02	1	1.128	A BV	16537.	34.003	NG OC	0.11
15	96	229	7:38	1	1.225	A BB	29490.	91.719	NG OC	0.29
16	83	239	7:58	1	1.278	A BB	228095.	437.141	NG OC	1.39
17	62	260	8:40	1	1.390	A BV	150948.	562.728	NG OC	1.79
18	72	264	8:48	1	1.412	A VB	150682.	955.588	NG OC	3.04
19	97	287	9:34	1	1.535	A BB	270524.	607.993	NG OC	1.93
20	43	307	10:14	1	1.642	A VV	230816.	226.407	NG OC	0.72
21	83	305	10:10	2	0.716	A BV	29371.	51.476	NG OC	0.16
22	63	338	11:16	2	0.793	A BB	10645.	21.910	NG OC	0.07
23	75	338	11:16	2	0.793	A BV	2162.	4.046	NG OC	0.01
24	130	357	11:54	2	0.838	A BB	1614080.	2538.450	NG OC	8.07
25	129	363	12:06	2	0.852	A BB	16083.	25.034	NG OC	0.08
26	78	370	12:20	2	0.869	A BB	7281430.	4754.160	NG OC	15.12
27	75	369	12:18	2	0.866	A BB	643363.	1392.010	NG OC	4.43
28	43	470	15:40	3	0.897	A BV	527624.	509.850	NG OC	1.62
29	43	437	14:34	2	1.026	A BV	121392.	86.151	NG OC	0.27
30	164	474	15:48	3	0.905	A BB	1005370.	1728.690	NG OC	5.50
31	83	465	15:30	3	0.887	A BV	29141.	34.877	NG OC	0.11
32	92	504	16:48	2	1.183	A BB	4376150.	3609.390	NG OC	11.48
33	112	526	17:32	3	1.004	A BB	1568500.	1033.470	NG OC	3.29
34	106	568	18:56	3	1.084	A BB	504546.	738.235	NG OC	2.35
35	104	656	21:52	3	1.252	A BB	35321.	30.209	NG OC	0.10
36	106	680	22:40	3	1.298	A VB	630628.	821.548	NG OC	2.61


RIC
07/30/85 17:58:00
SAMPLE: R8464 VO-3 + 5UL IS&SURR #537 T243 & TC486
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3
DATA: EQ283 #1
CALI: EQ283 #6
SCANS 1 TO 750
966656
RVN
16
42
65
110
141
181
223
260
311
369
421
448
475
505
571
590
621
665
686
719
100
3:20
200
6:40
300
10:00
400
13:20
500
16:40
600
20:00
700
23:20
SCAN
TIME

QUANTITATION REPORT FILE: EQ283

DATA: EQ283.TI
07/30/85 17:58:00 RUN
SAMPLE: R8464 VO-3 + 5UL IS&SURR #537 T243 & TC486
SUBMITTED BY: EPA EMB ANALYST: AZ

AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
RESP. FAC. FROM AVERAGE OF WHOLE .RL

NO	NAME
1	IS #1 BROMOCHLOROMETHANE (128)
2	IS #2 1,4-DIFLUOROBENZENE (114)
3	IS #3 D5-CHLOROBENZENE (117)
4	QC #1 D4-1,2-DICHLOROETHANE (65)
5	QC #2: D8-TOLUENE (98)
6	QC #3: 4-BROMOFLUOROBENZENE (95)
~~7~~	~~CHLOROMETHANE (50)~~ * * ?
~~8~~	~~BROMOMETHANE (94)~~
9	VINYL CHLORIDE (62) *
10	CHLOROETHANE (64)
11	METHYLENE CHLORIDE (84)
~~12~~	~~ACETONE (43)~~ ?
13	CARBON DISULFIDE (76)
14	1,1-DICHLOROETHENE (96) * $
15	1,1-DICHLOROETHANE (63)
16	TRANS-1,2-DICHLOROETHENE (96)
17	CHLOROFORM (83) *
~~18~~	~~1,2-DICHLOROETHANE (62)~~ ?
19	2-BUTANONE (72)
20	1,1,1-TRICHLOROETHANE (97)
21	CARBON TETRACHLORIDE (117)
22	VINYL ACETATE (43) OK Vinyl Acetate T.S.
23	BROMODICHLOROMETHANE (83)
~~24~~	~~1,2-DICHLOROPROPANE (63)~~ *
25	TRANS-1,3-DICHLOROPROPENE (75)
26	TRICHLOROETHENE (130) $
27	DIBROMOCHLOROMETHANE (129)
28	BENZENE (78) $
~~29~~	~~CIS-1,3-DICHLOROPROPENE (75)~~ ?
~~30~~	~~2-CHLOROETHYL VINYL ETHER (63)~~
31	2-HEXANONE (43) ?
32	4-METHYL-2-PENTANONE (43)
33	TETRACHLOROETHENE (164)
~~34~~	~~1,1,2,2,-TETRACHLOROETHANE (83)~~
35	TOLUENE (92) * $
36	CHLOROBENZENE (112) * * $
37	ETHYLBENZENE (106) *
38	TOTAL XYLENES (106)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	186	6:12	1	1.000	A BB	26028.	250.000	NG OC	0.81
2	114	426	14:12	2	1.000	A BB	468324.	250.000	NG OC	0.81
3	117	525	17:30	3	1.000	A BB	352921.	250.000	NG OC	0.81
4	65	258	8:36	1	1.387	A BV	50271.	245.470	NG OC	0.80
5	98	502	16:44	2	1.178	A BB	321599.	219.994	NG OC	0.71
6	95	623	20:46	3	1.187	A VB	336853.	318.799	NG OC	1.03

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
7	50	3133	1:02	1	0.167	A BB	242817.	1809.300	NG OC	5.87
8	94	4546	1:30	1	0.242	A BB	1310.	5.100	NG OC	0.02
9	62	5454	1:48	1	0.290	A VB	880562.	5292.670	NG OC	17.16
10	64	6766	2:14	1	0.360	A BB	20132.	201.602	NG OC	0.65
11	84	100	3:20	1	0.538	A BB	564341.	1822.850	NG OC	5.91
12	43	125	4:10	1	0.672	A BV	405856.	1190.390	NG OC	3.86
13	76	150	5:00	1	0.806	A BV	555211.	740.429	NG OC	2.40
14	96	181	6:02	1	0.973	A BB	25519.	110.026	NG OC	0.36
15	63	211	7:02	1	1.134	A BV	19794.	41.421	NG OC	0.13
16	96	229	7:38	1	1.231	A BB	35758.	113.183	NG OC	0.37
17	83	239	7:58	1	1.285	A BB	324680.	633.265	NG OC	2.05
18	62	259	8:38	1	1.392	A BV	147764.	560.614	NG OC	1.82
19	72	264	8:48	1	1.419	A VB	70025.	451.948	NG OC	1.47
20	97	287	9:34	1	1.543	A BB	270482.	618.665	NG OC	2.01
21	117	295	9:50	1	1.586	A VB	15632.	43.810	NG OC	0.14
22	43	306	10:12	1	1.645	A BV	208362.	208.002	NG OC	0.67
23	83	305	10:10	2	0.716	A BV	35532.	57.363	NG OC	0.19
24	43	338	11:16	2	0.793	A BB	146172.	277.138	NG OC	0.90
25	75	344	11:28	2	0.808	A VB	2992.	5.159	NG OC	0.02
26	130	357	11:54	2	0.838	A BB	1455040.	2107.900	NG OC	6.83
27	129	363	12:06	2	0.852	A BB	18757.	26.894	NG OC	0.09
28	78	370	12:20	2	0.869	A BB	7151380.	4301.080	NG OC	13.95
29	75	369	12:18	2	0.866	A BB	617908.	1231.520	NG OC	3.99
30	69	395	13:10	1	2.124	A BB	1288.	34.611	NG OC	0.11
31	43	471	15:42	3	0.897	A BV	404672.	348.243	NG OC	1.13
32	43	442	14:44	2	1.038	A BV	91141.	59.582	NG OC	0.19
33	164	475	15:50	3	0.905	A BB	975403.	1493.610	NG OC	4.84
34	83	466	15:32	3	0.888	A BV	17868.	19.045	NG OC	0.06
35	92	505	16:50	2	1.185	A BB	4217220.	3204.050	NG OC	10.39
36	112	528	17:36	3	1.006	A BB	1677980.	984.608	NG OC	3.19
37	106	572	19:04	3	1.090	A BB	492150.	641.288	NG OC	2.08
38	106	686	22:52	3	1.307	A VB	578234.	670.849	NG OC	2.18

CLIENT NAME USEPA-EMP

CHECKER [illegible]

EXTRACT LOCATION Refr. #2 Top Shelf

EXTRACTION METHOD sonication

PN# 3015-14

Case

SOIL EXTRACTION SUMMARY

Date Received 6/30/85

Sample Id.	PEDCo No.	Amount Extracted	Date Extracted	pH	Percent Moisture	Int. Extract Vol., ml.	Residue Aliquot, ml.	GPC Aliquot, ml.	Ext., ml. After GPC	Pesticide Aliquot, ml.	B/N/A Aliquot, ml.	Pest., ml. Final Vol.	B/N/A, ml. Final Vol.
Bottom Ash 6/25	EQ299	30.01	7-2-85			10							1.0
Bottom Ash 6/26	EQ300	30.10	"			10							1.0
Sludge Feed 6/25	EQ324	30.03	"			10	1 ml	5 ml	10				1.0
Sludge Feed 6/26	EQ325	30.61	"			10							1.0
Na_2SO_4	BLK	30.41	"			10							1.0
													1
—	—	—	POST	—	—	—	—	—	—	—	—	—	—
Sludge Feed 6/25	EQ324	30.17	7-2-85			10	1 ml	5 ml	10			1.0	
Na_2SO_4	BLK	30.40	"			10						1.0	

C-154

	SURR. STD.	AMOUNT	M.S. STD.	AMOUNT
BNA	510	1 ml		
PEST	514	1 ml		

NOTEBOOK PAGES 88

NOTES:

CLIENT NAME USEPA-Emm

CHECKER [illegible]

EXTRACT LOCATION Ref. # 2 Top Shelf

EXTRACTION METHOD soxhlet

CH_2Cl_2 / Filters

SOIL EXTRACTION SUMMARY

PN# 3615-14

Case

Date Received 6/30/85

Sample Id.	PEDCo No.	Amount Extracted	Date Extracted	pH	Percent Moisture	Int. Extract Vol., ml.	Residue Aliquot, ml.	GPC Aliquot, ml.	Ext., ml. After GPC	Pesticide Aliquot, ml.	B/N/A Aliquot, ml.	Pest., ml. Final Vol.	B/N/A, ml. Final Vol.
PCIO-3	EQ267	160 ml	7-8-85			10	1.0	5 mL	10				1.0
PCOO-3	EQ268	130 ml				10							1.0
PCIO-3 & PCOO-3 BLK	EQ269 EQ280	230 ml				10							1.0
CH_2Cl_2	BLK	250 ml				10							1.0

	SURR. STD.	AMOUNT	M.S. STD.	AMOUNT
BNA	510	1 ml		
PEST				

NOTEBOOK PAGES 92

NOTES:

CLIENT NAME USEPA-EMP

methanol Rinses

WATER EXTRACTION SUMMARY

CHECKER CT

EXTRACT LOCATION Ref. #2

PN 3615-14

Case —

Date Received 6/30/85

EXTRACTION METHOD evaporation

Sample Id.	PEI No.	Date Extracted	Amount Extracted	pH	Int. Extract Vol., ml.	Residue Aliquot, ml.	GPC Aliquot, ml.	Final Vol. ~~Acid, ml.~~	Final Vol. B/N/A, ml.	Final Vol. Pest., ml
pCIO-3	EQ270	//	lost	—	10					
pCOO-3	EQ271	7-8-85	125ml	—	10			K.D. 1.0 5.0		
methanol BIK	EQ272		375ml	—	10			K.D. 1.0 5.0		
methanol	BIK		150ml	—	10			K.D. 1.0 5.0		

	SURR STD.	AMOUNT	M.S. STD.	AMOUNT
BNA	510	1ml		
PEST				

NOTEBOOK PAGES 91

NOTES:

C-156

CLIENT NAME USEPA-EMB

XAD, Traps

WATER EXTRACTION SUMMARY

B/N/A

CHECKER (C)

EXTRACT LOCATION Rfg. #2

PN 3615-14

Case ——

Date Received 6/20/85

EXTRACTION METHOD Cont. ext.

Sample Id.	PEI No.	Date Extracted	Amount Extracted	pH	Int. Extract Vol., ml.	Residue Aliquot, ml.	GPC Aliquot, ml.	Final Vol. Acid, ml.	Final Vol. B/N/A, ml.	Final Vol. Pest., ml.
PCIO-1 TRAP #10-1	EQ258 ✓	7-2-85 ✓			10				1.0	
PCIO-2 TRAP #10-2	EQ259 ✓	✓			10				1.0	
PCIO-3 TRAP #10-3	EQ260 ✓	✓			10				1.0	
PCOO-1 TRAP OO-1	EQ261 ✓	✓			10				1.0	
PCOO-2	EQ262 ✓	7-8-85 ✓			10				1.0	
PCOO-3	EQ263 ✓	7-8-85			10				1.0	
PCOO\All PCIO/runs	EQ264 ✓	7-9-85 ✓	Blank		10				1.0	
Field BIK	EQ265	7-9-85	2		10				1.0	
Field BIK F-2	EQ266	7-10-85			10				1.0	
CH_2Cl_2	BIK	7-10-85			10				1.0	

	SURR STD.	AMOUNT	M.S. STD.	AMOUNT
BNA	510	1 ml		
PEST				

NOTEBOOK PAGES 90

NOTES:

CLIENT NAME USEPA - EMB

H_2O_S
WATER EXTRACTION SUMMARY

CHECKER JH

EXTRACT LOCATION Left # 2 Top Shelf

EXTRACTION METHOD cont. ext.

PN 3615-14

Case —

Date Received 6/30/85

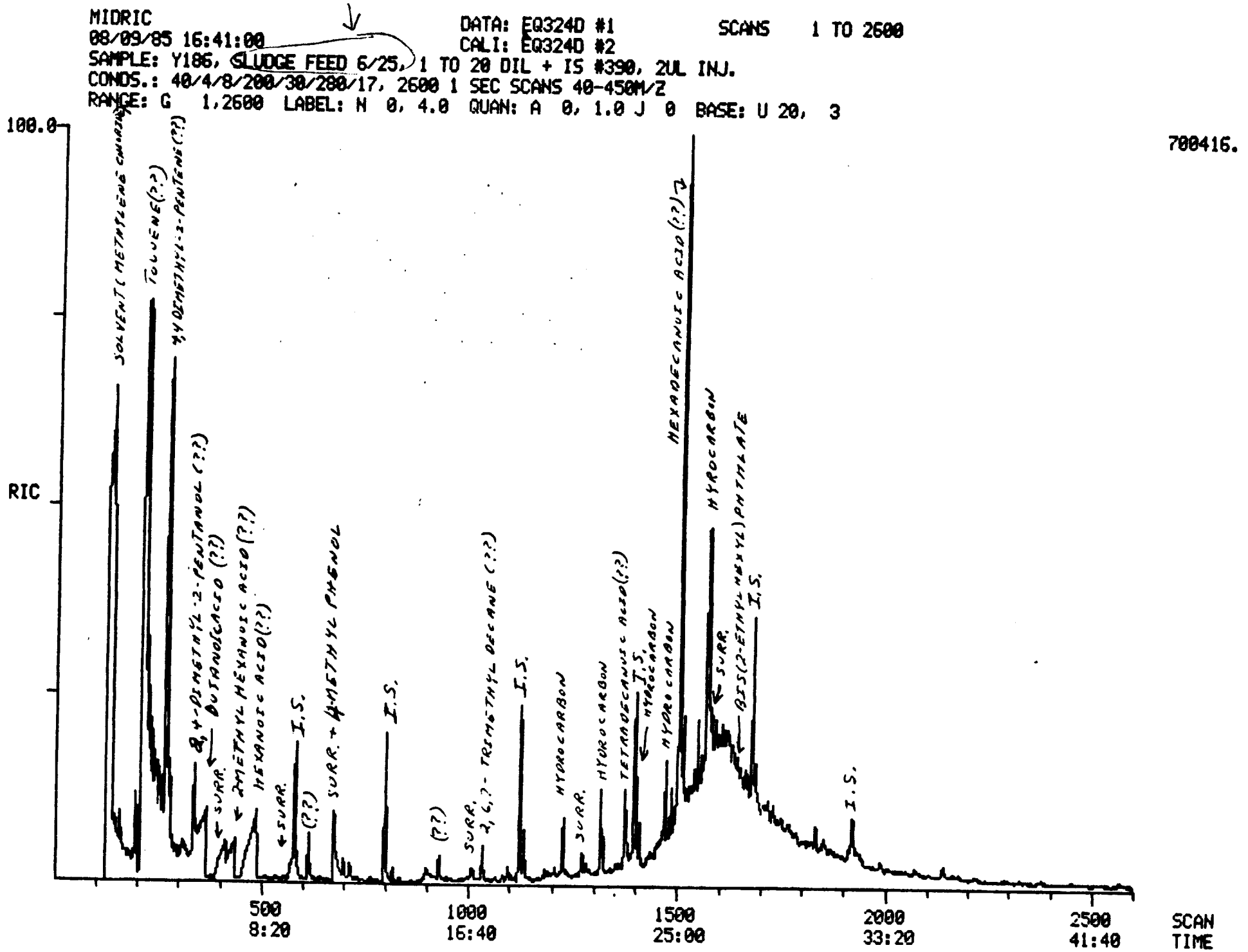
Sample Id.	PEI No.	Date Extracted	Amount Extracted	pH	Int. Extract Vol., ml.	Residue Aliquot, ml.	GPC Aliquot, ml.	Final Vol. Acid, ml.	Final Vol. B/N, ml.	Final Vol. Pest., ml
PCIO-1 ✓	EQ273 ✓	7-2-85	~~940~~ ml		10			1.0	1.0	
PCIO-2 ✓	EQ274 ✓		900		10			1.0	1.0	
PCIO-3 ✓	EQ275 ✓		940		10			1.0	1.0	
PCOO-1 ✓	EQ276 ✓		585		10			1.0	1.0	
PCOO-2 ✓	EQ277 ✓		620		10			1.0	1.0	
PCOO-3 ✓	EQ278 ✓		600		10			1.0	1.0	
H_2O Type F Oil ✓	EQ279 ✓		640		10			1.0	1.0	
Scrubber inf. 6/25 ✓	EQ308 ✓		500		10			1.0	1.0	
Scrubber inf. 6/26 ✓	EQ309 ✓		890		10			1.0	1.0	
Scrubber eff. 6/25 ✓	EQ316 ✓		1L		10			1.0	1.0	
Scrubber eff. 6/26 ✓	EQ317 ✓		890		10			1.0	1.0	
DI H_2O ✓	BIK ✓		1L		10			1.0	1.0	
—	Pest	—	—	—	—	—	—	—	—	—
Scrubber inf. 6/25 ✓	EQ308 ✓	7-2-85	500		10					10
DI H_2O ✓	BIK ✓	↓	1L		10					10

	SURR STD.	AMOUNT	M.S. STD.	AMOUNT
BNA	510	1 ml		
PEST	515	1 ml		

NOTEBOOK PAGES 88

NOTES: * EQ277 lost sm. portion in bath

C-158


MIDRIC
08/09/85 16:41:00
DATA: EQ324D #1
CALI: EQ324D #2
SCANS 1 TO 2600
SAMPLE: Y186, SLUDGE FEED 6/25, 1 TO 20 DIL + IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
RIC
700416.
C-159
SOLVENT (METHYLENE CHLORIDE)
TOLUENE(??)
2,4-DIMETHYL-2-PENTANOL (??)
SURR.
BUTANOIC ACID (??)
2-METHYL HEXANOIC ACID (??)
HEXANOIC ACID (??)
SURR.
I.S.
(??)
SURR. + 4-METHYL PHENOL
I.S.
(??)
SURR.
2,6,?- TRIMETHYL DECANE (??)
I.S.
HYDROCARBON
SURR.
HYDROCARBON
TETRADECANOIC ACID (??)
I.S.
HYDROCARBON
HYDROCARBON
HEXADECANOIC ACID (??)
HYDROCARBON
SURR.
BIS(2-ETHYLHEXYL) PHTHALATE
I.S.
I.S.
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ324D

Data: EQ324D.TI
08/09/85 16:41:00
Sample: Y186, SLUDGE FEED 6/25, 1 TO 20 DIL + IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

NO NAME
1 IS #1: D4-1,4-DICHLOROBENZENE (152)
2 QC #1: 2-FLUOROPHENOL (112)
3 QC #2: D5-PHENOL (99)
4 QC #3: D5-NITROBENZENE (82)
5 4-METHYLPHENOL (108)
6 IS #2: D8-NAPHTHALENE (136)
~~7 ISOPHORONE (82)~~
~~8 NAPHTHALENE (128)~~
9 IS #3: D10-ACENAPTHENE (164)
10 QC #4: 2-FLUOROBIPHENYL (172)
11 QC #5: 2,4,6-TRIBROMOPHENOL (330)
~~12 N-NITROSODIPHENYLAMINE (169) *~~
13 IS #5: D12-CHRYSENE (240)
14 QC #6: D14-TERPHENYL (244)
~~15 BUTYLBENZYLPHTHALATE (149)~~
16 BIS(2-ETHYLHEXYL)PHTHALATE (149)
17 IS #6: D12-PERYLENE (264)
18 IS #4: D10-PHENANTHRENE (188)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	579	9:39	1	1.000	A BB	70902.	40.000	PPB IS	12.41
2	112	396	6:36	1	0.684	A BB	3863.	3.535	PPB QC	1.10
3	99	552	9:12	1	0.953	A BV	7021.	3.831	PPB QC	1.19
4	82	681	11:21	1	1.176	A BB	4424.	2.211	PPB QC	0.69
5	108	673 ✓	11:13	1	1.162	A BB	80146.	49.385	PPB	15.32
6	136	799	13:19	6	1.000	A BB	242763.	40.000	PPB IS	12.41
~~7~~	~~82~~	~~728~~	~~12:08~~	~~6~~	~~0.911~~	~~A BB~~	~~2799.~~	~~1.986~~	~~PPB~~	~~0.62~~
~~8~~	~~128~~	~~803~~	~~13:23~~	~~6~~	~~1.005~~	~~A BB~~	~~7394.~~	~~1.121~~	~~PPB~~	~~0.35~~
9	164	1123	18:43	9	1.000	A BB	114620.	40.000	PPB IS	12.41
10	172	1007	16:47	9	0.897	A BB	9673.	3.053	PPB QC	0.95
11	330	1278	21:18	18	0.915	A BB	3336.	6.621	PPB QC	2.05
~~12~~	~~169~~	~~1258~~	~~20:58~~	~~18~~	~~0.901~~	~~A BV~~	~~3397.~~	~~1.696~~	~~PPB~~	~~0.53~~
13	240	1678	27:58	13	1.000	A BB	156591.	40.000	PPB IS	12.41
14	244	1584	26:24	13	0.944	A BB	12144.	3.897	PPB QC	1.21
~~15~~	~~149~~	~~1626~~	~~27:06~~	~~13~~	~~0.969~~	~~A BB~~	~~5199.~~	~~1.423~~	~~PPB~~	~~0.44~~
16	149	1686 ✓	28:06	13	1.005	A BB	16969.	3.589	PPB	1.11
17	264	1919	31:59	17	1.000	A BB	87447.	40.000	PPB IS	12.41
18	188	1396	23:16	18	1.000	M ZZ	219315.	40.000	PPB IS	12.41

3/26 SLUDGE FEED

NO CHROMATOGRAM AVAILABLE

Quantitation Report File: EQ325

Data: EQ325.TI
08/09/85 17:35:00
Sample: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

30.61g
↓
1ml

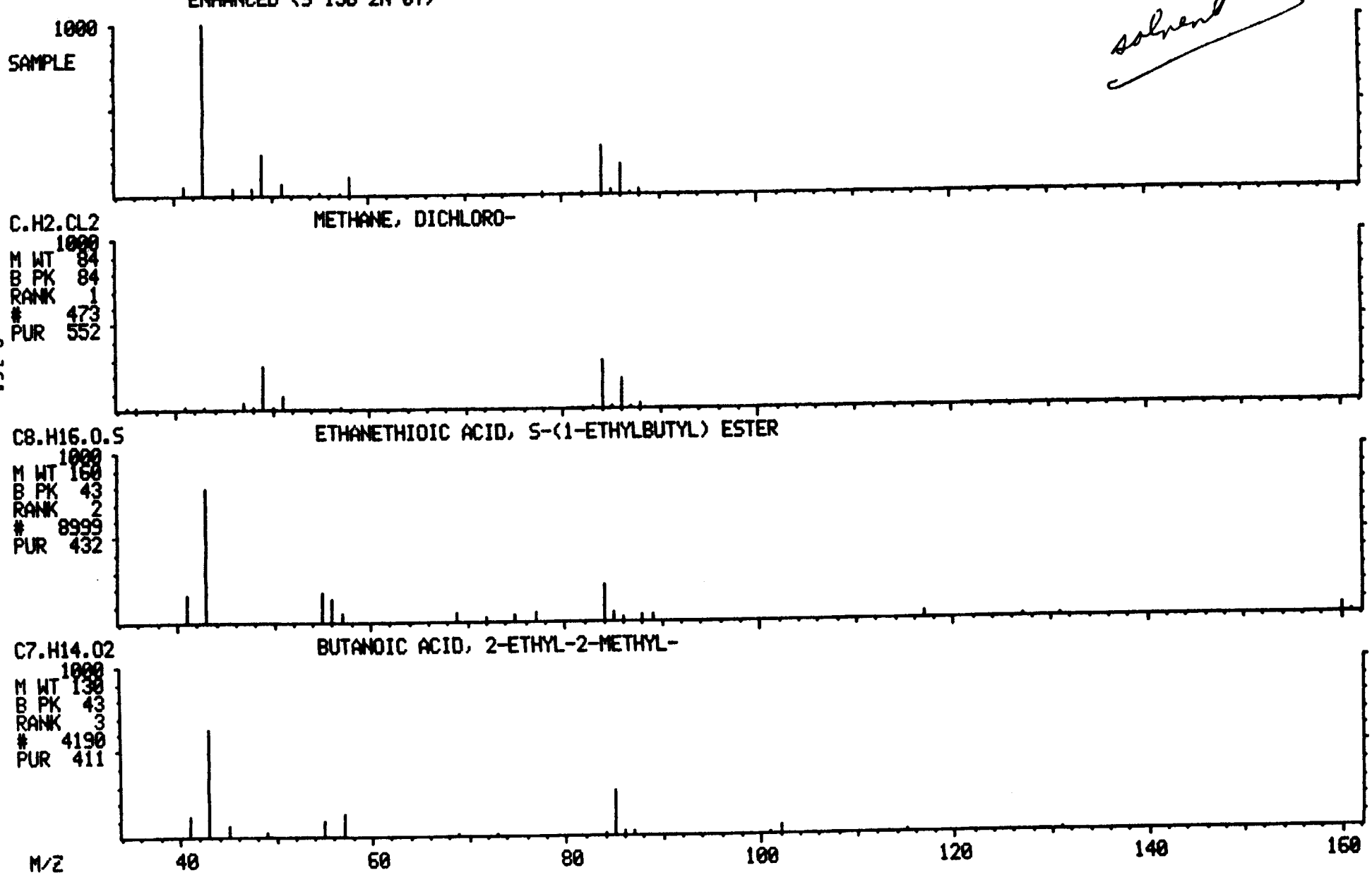
NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #2: D5-PHENOL (99)
3	QC #3: D5-NITROBENZENE (82)
4	N-NITROSODIMETHYLAMINE (74)
5	4-METHYLPHENOL (108)
6	N-NITROSO-DI-PROPYLAMINE (70) **
7	HEXACHLOROETHANE (117)
8	IS #2: D8-NAPHTHALENE (136)
9	ISOPHORONE (82)
10	BENZOIC ACID (105)
11	NAPHTHALENE (128)
12	2-METHYLNAPHTHALENE (141)
13	IS #3: D10-ACENAPTHENE (164)
14	QC #4: 2-FLUOROBIPHENYL (172)
15	ACENAPHTHENE (154) *
16	4-NITROPHENOL (65) **
17	DIBENZOFURAN (168)
18	FLUORENE (166)
19	IS #4: D10-PHENANTHRENE (188)
20	QC #5: 2,4,6-TRIBROMOPHENOL (330)
21	N-NITROSODIPHENYLAMINE (169) *
22	BENZIDINE (184)
23	IS #5: D12-CHRYSENE (240)
24	QC #6: D14-TERPHENYL (244)
25	BUTYLBENZYLPHTHALATE (149)
26	BENZO(A)ANTHRACENE (228)
27	BIS(2-ETHYLHEXYL)PHTHALATE (149)
28	CHRYSENE (228)
29	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	587	9:47	1	1.000	A BB	61220.	40.000	PPB	1.90
2	99	569	9:29	1	0.969	A BV	85252.	53.869	PPB	2.55
3	82	691	11:31	1	1.177	A BB	165693.	95.905	PPB	4.55
4	74	225	3:45	1	0.383	A BV	26068.	17.668	PPB	0.84
5	108	694	11:34	1	1.182	A BB	1477360.	1054.300	PPB	49.97
6	70	716	11:56	1	1.220	A BV	7614.	5.165	PPB	0.24
7	117	675	11:15	1	1.150	A VV	1223.	1.057	PPB	0.05
8	136	805	13:25	8	1.000	A BB	292978.	40.000	PPB	1.90
9	82	797	12:17	8	0.916	A BV	3927.	2.309	PPB	0.11
10	105	823	13:43	8	1.022	A VV	6956.	17.284	PPB	0.82
11	128	808	13:28	8	1.004	A BV	80497.	10.114	PPB	0.48
12	141	951	15:51	8	1.181	A BV	18651.	4.130	PPB	0.20
13	164	1125	18:45	13	1.000	A BB	144581.	40.000	PPB	1.90
14	172	1009	16:49	13	0.897	A BB	390256.	97.634	PPB	4.63
15	154	1131	18:51	13	1.005	A BB	8145.	2.011	PPB	0.10
16	65	1211	20:11	13	1.076	A VB	659.	2.252	PPB	0.11
17	168	1161	19:21	13	1.032	A VV	9854.	1.459	PPB	0.07
18	166	1225	20:25	13	1.089	A BB	5551.	1.101	PPB	0.05
19	188	1399	23:19	19	1.000	A BB	228210.	40.000	PPB	1.90
20	330	1277	21:17	19	0.913	A BB	180379.	344.040	PPB	16.31
21	169	1258	20:58	19	0.899	A BB	12226.	5.867	PPB	0.28
22	184	1576	26:16	19	1.127	A BB	2739.	2.104	PPB	0.10
23	240	1682	28:02	23	1.000	A BB	148170.	40.000	PPB	1.90
24	244	1586	26:26	23	0.943	A BB	240461.	81.541	PPB	3.86
25	149	1627	27:07	23	0.967	A VB	45046.	13.028	PPB	0.62
26	228	1684	28:04	23	1.001	A BB	9656.	2.085	PPB	0.10
27	149	1690	28:10	23	1.005	A BB	235829.	52.719	PPB	2.50
28	228	1684	28:04	23	1.001	A BB	9656.	2.154	PPB	0.10
29	264	1929	32:09	29	1.000	M ZZ	245259.	40.000	PPB	1.90

MID LIBRARY SEARCH
08/09/85 17:35:00 + 2:06
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 126
CALI: EQ325 # 2

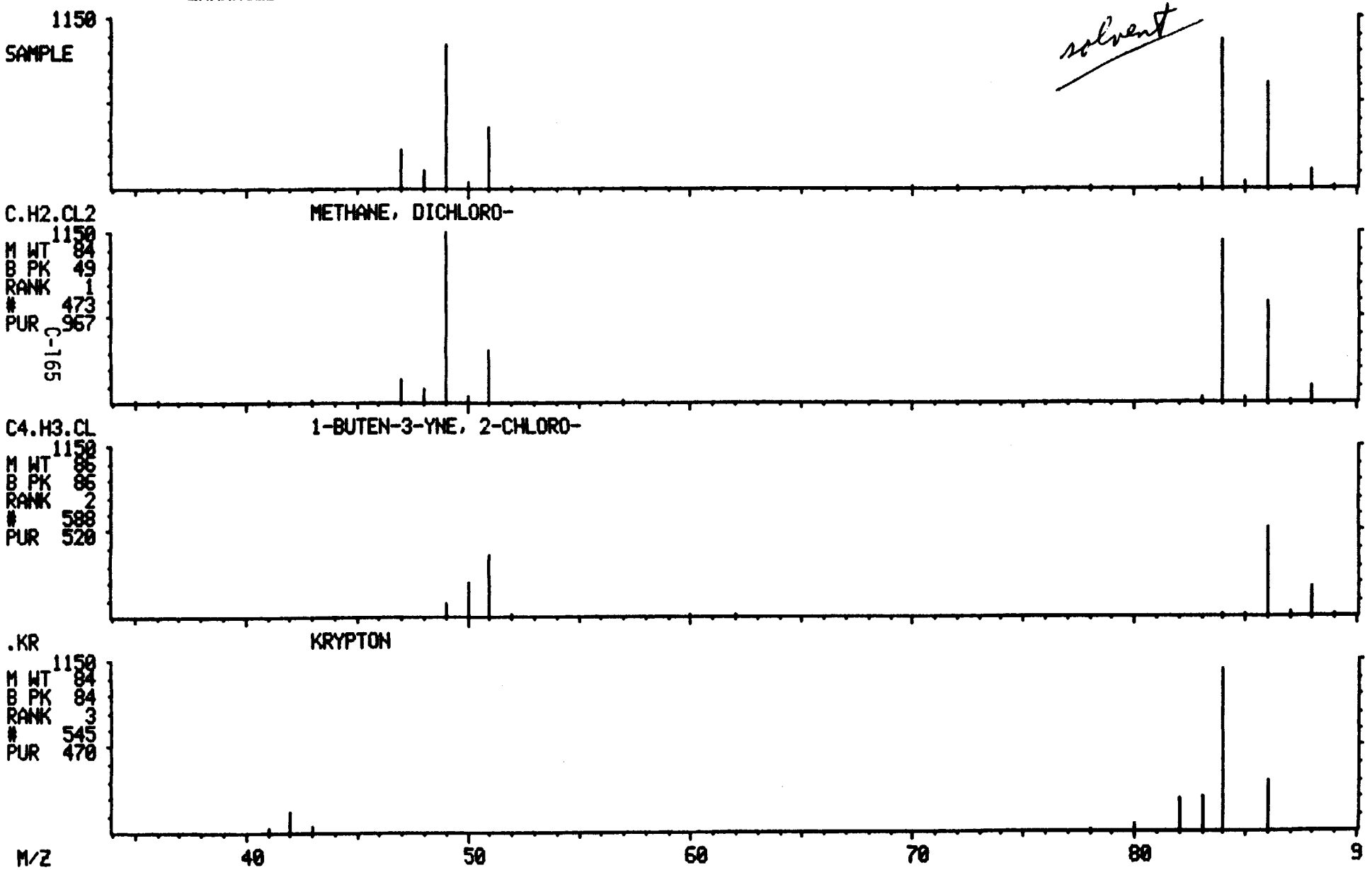
BASE M/Z: 43
RIC: 141823.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 2:12
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 132
CALI: EQ325 # 2

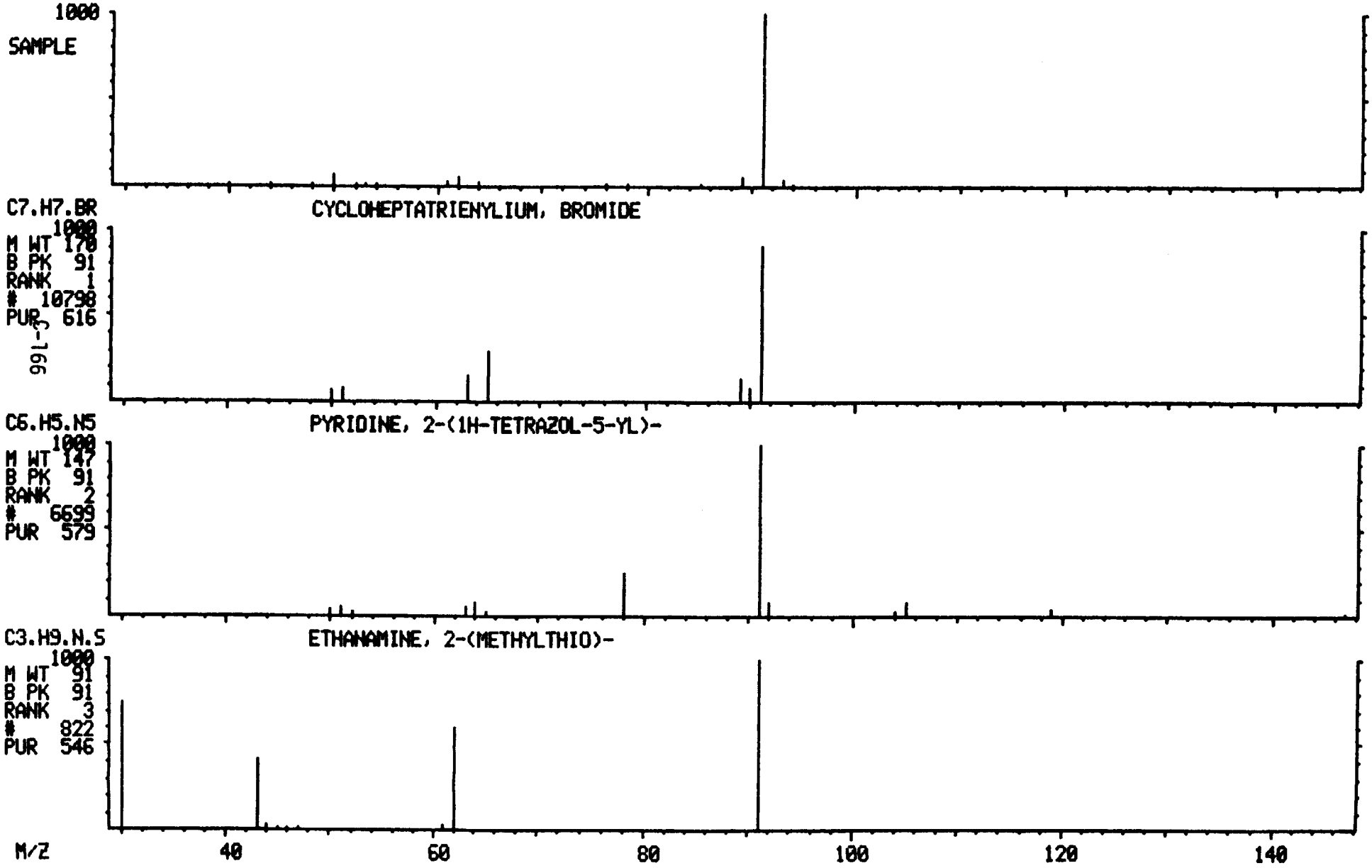
BASE M/Z: 84
RIC: 313855.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 3:37
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 217
CALI: EQ325 # 2

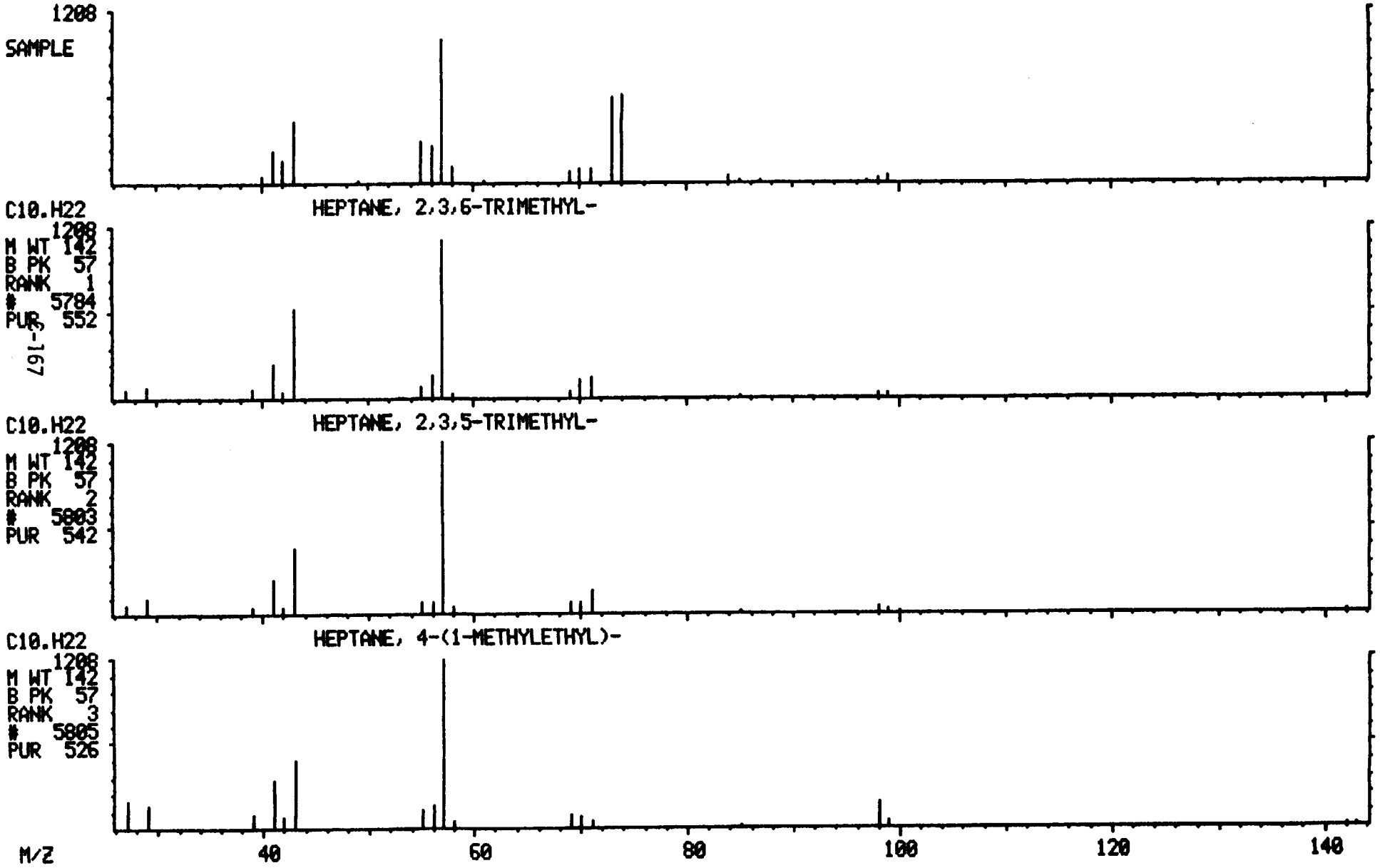
BASE M/Z: 91
RIC: 207615.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 5:26
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 326
CALI: EQ325 # 2

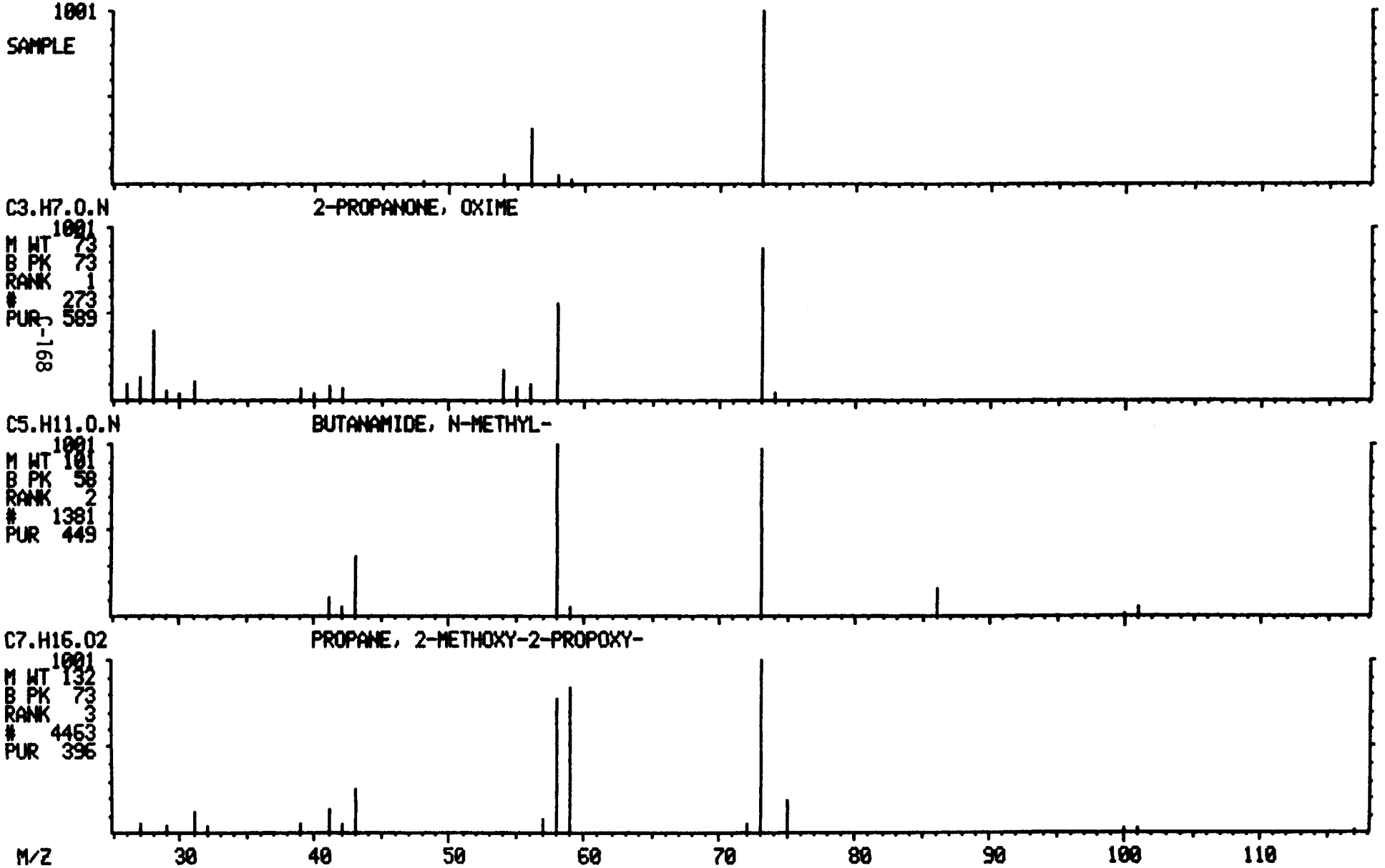
BASE M/Z: 57
RIC: 17247.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 5:33
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 333
CALI: EQ325 # 2

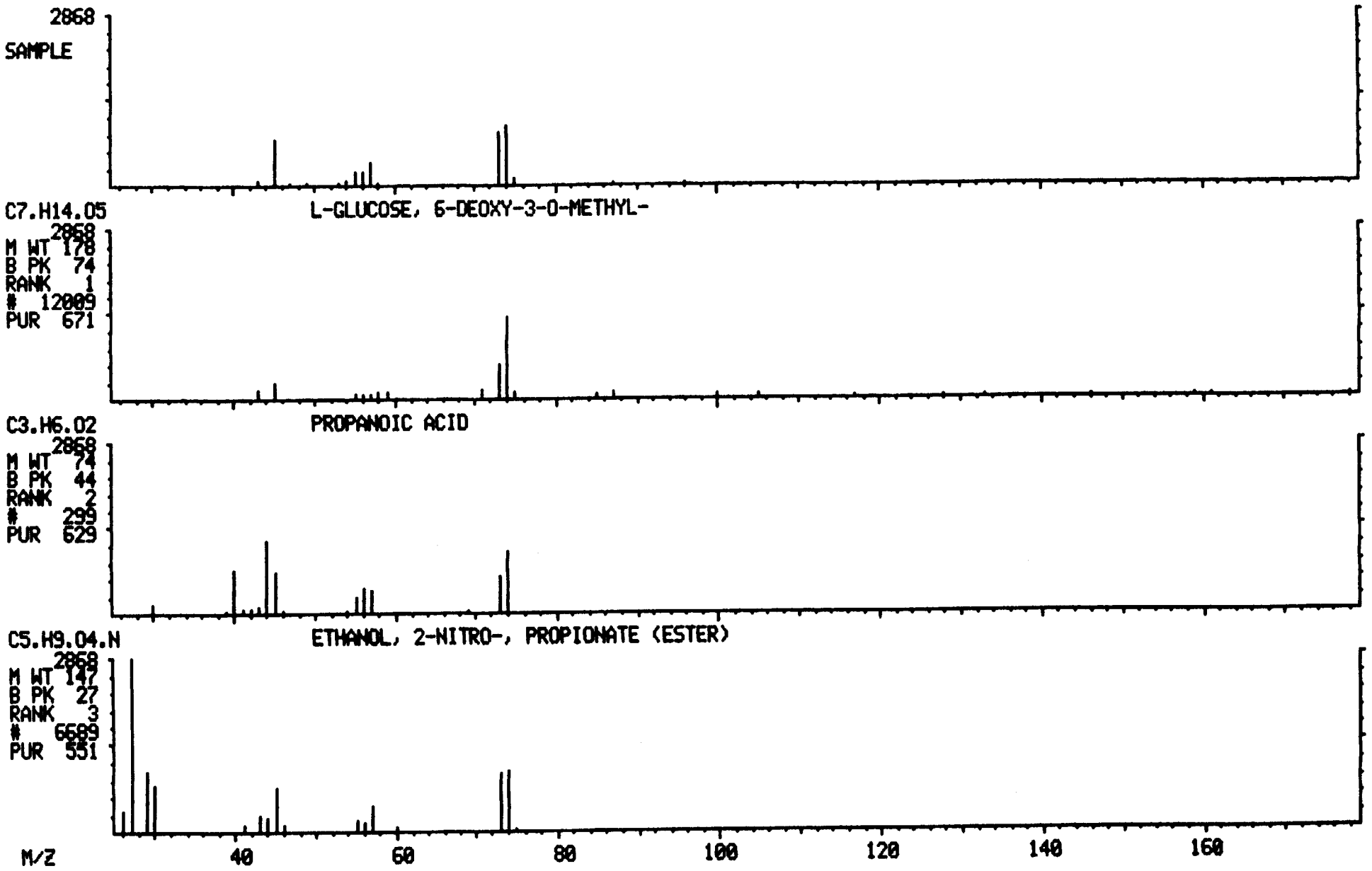
BASE M/Z: 73
RIC: 3875.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 5:38
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 338
CALI: EQ325 # 2

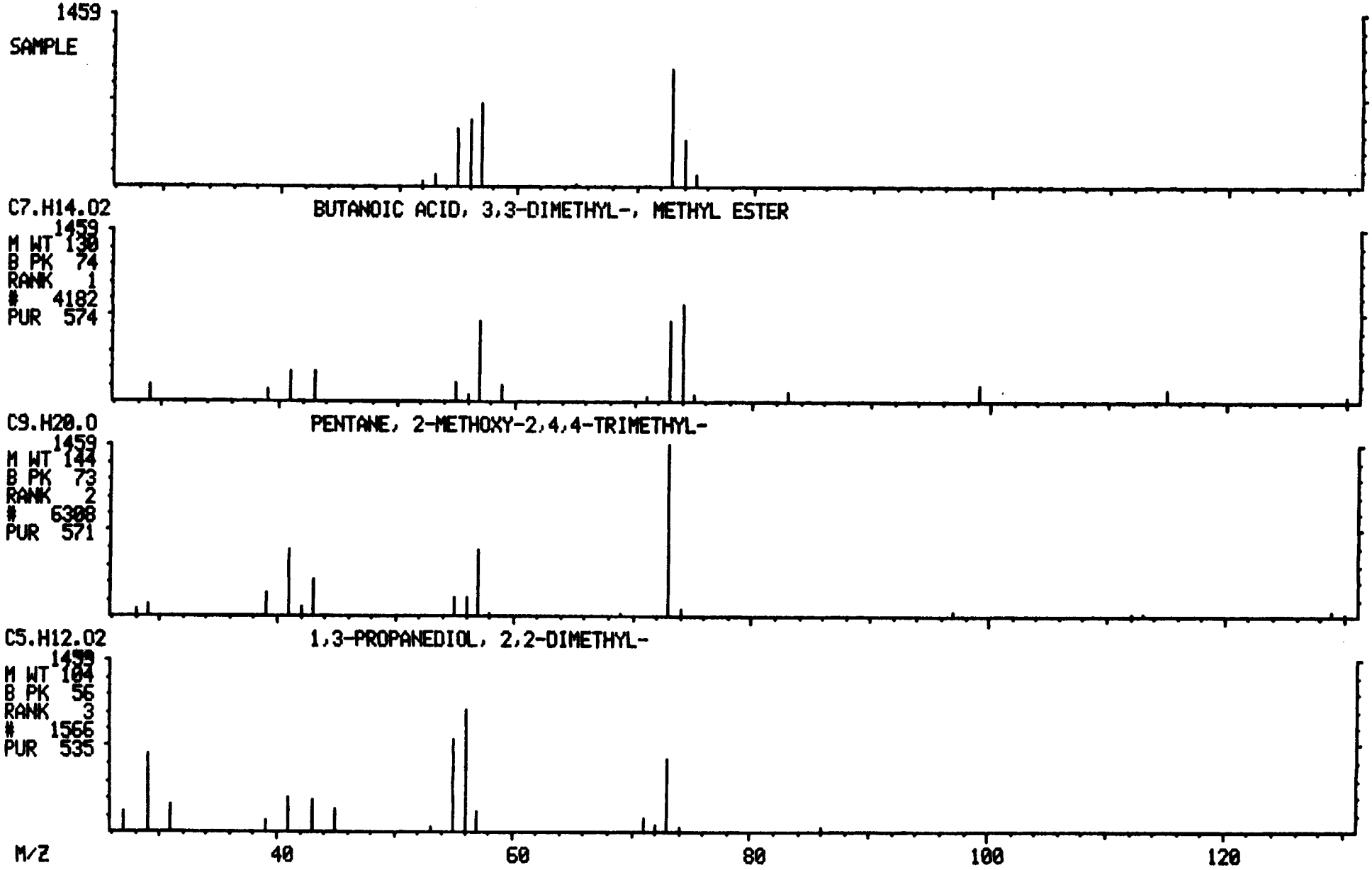
BASE M/Z: 74
RIC: 26783.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 5:59
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 359
CALI: EQ325 # 2

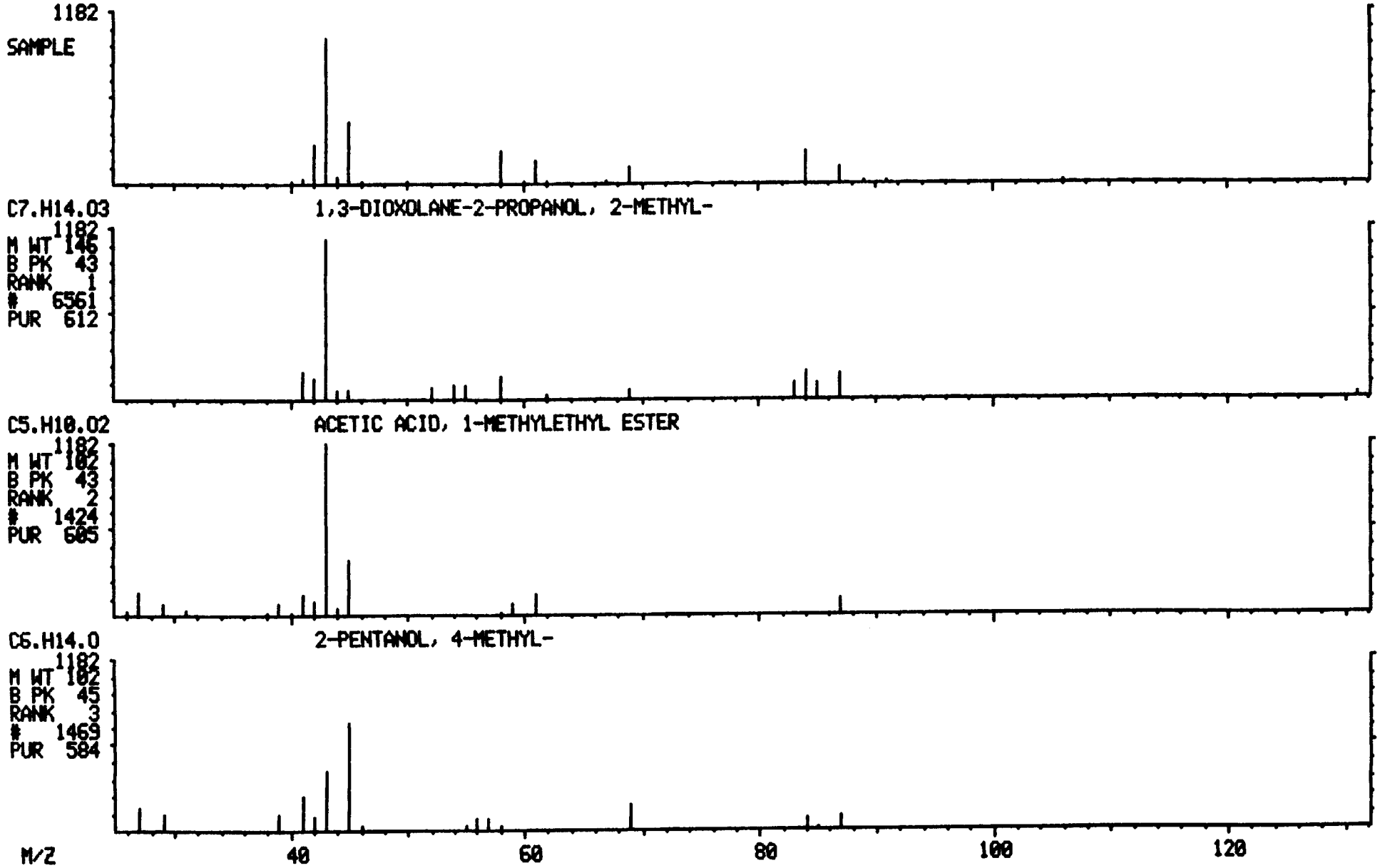
BASE M/Z: 73
RIC: 33983.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 6:08
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 368
CALI: EQ325 # 2

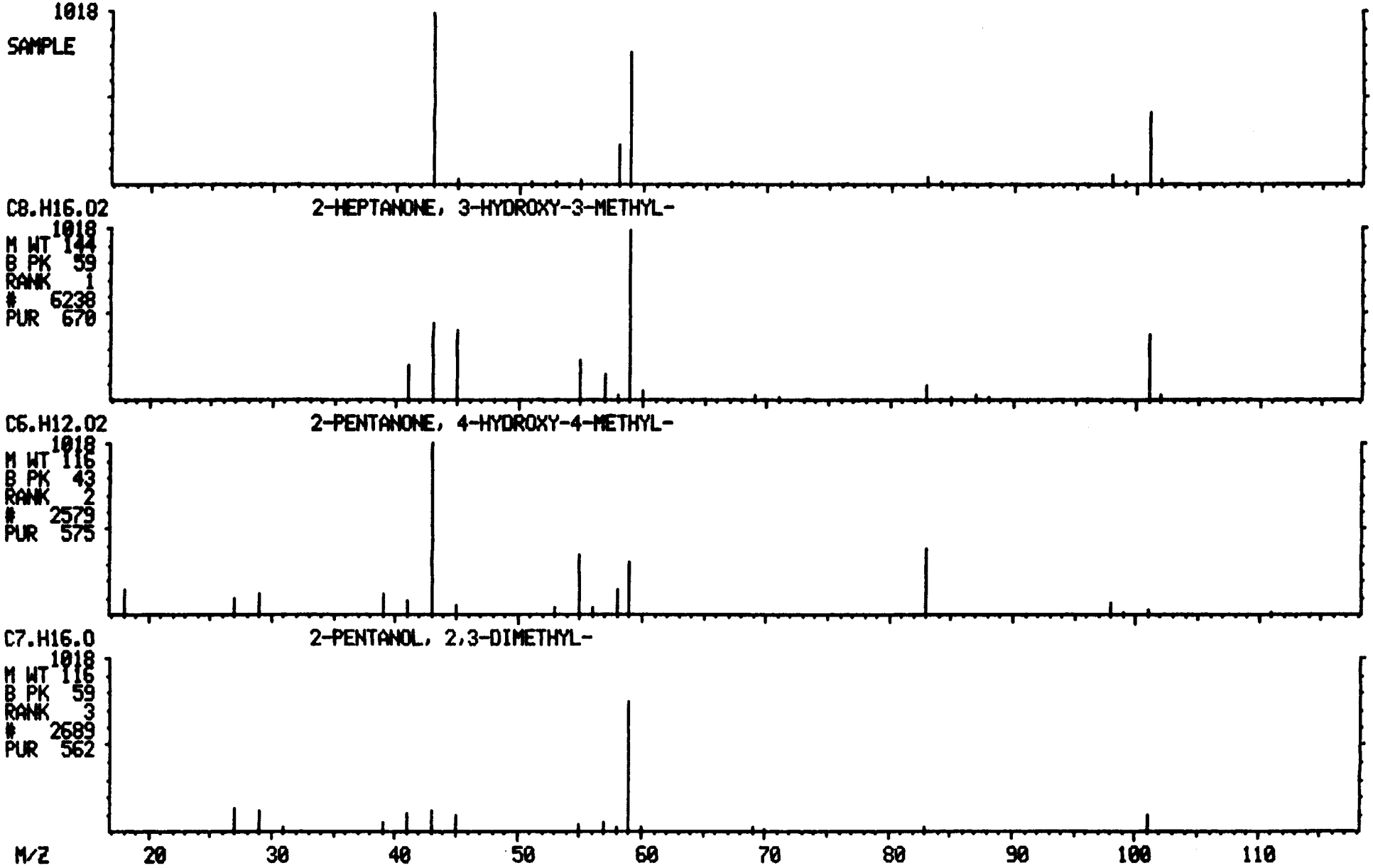
BASE M/Z: 43
RIC: 86527.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 6:24
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 384
CALI: EQ325 # 2

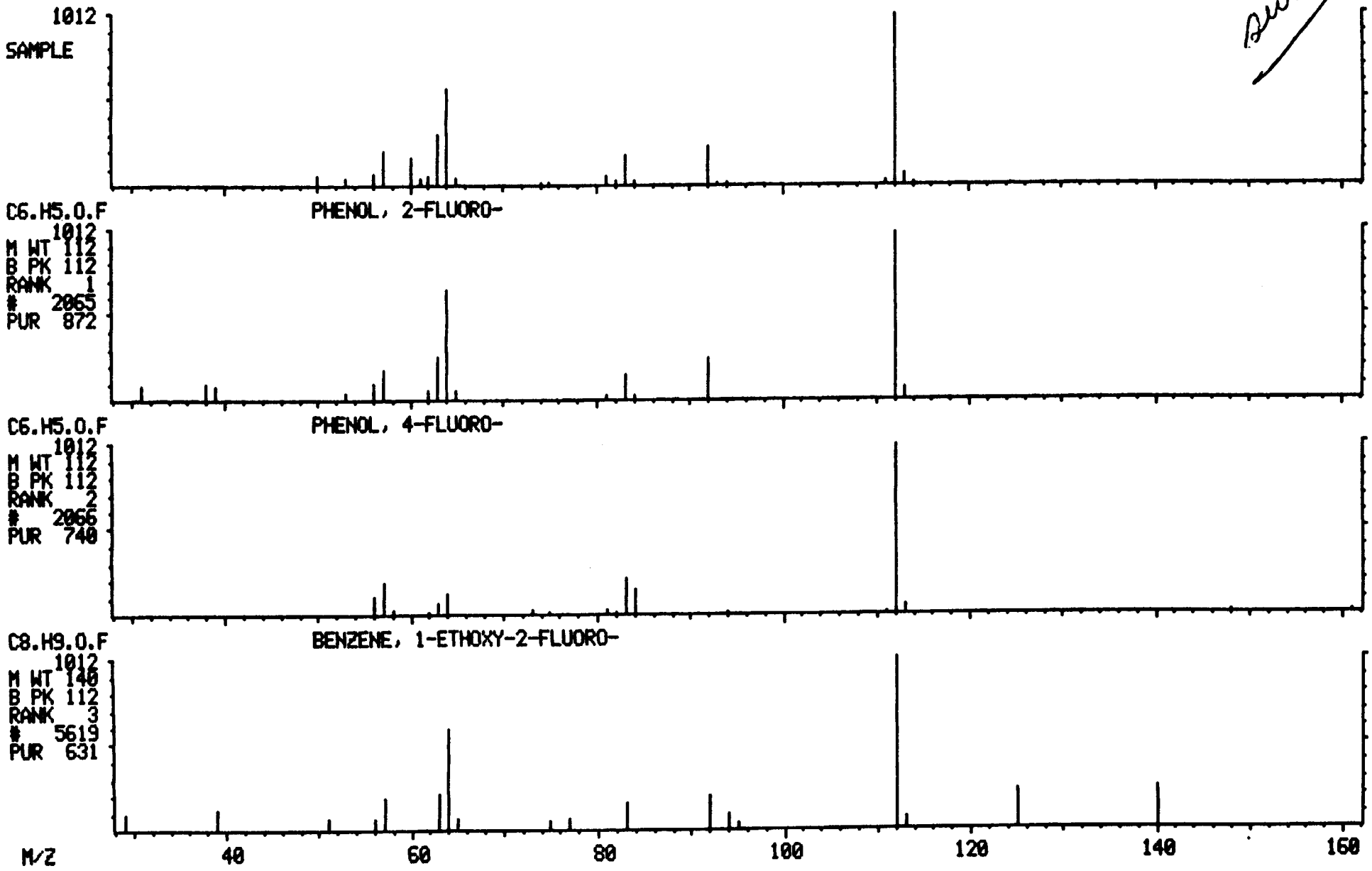
BASE M/Z: 43
RIC: 284159.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 7:02
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 422
CALI: EQ325 # 2

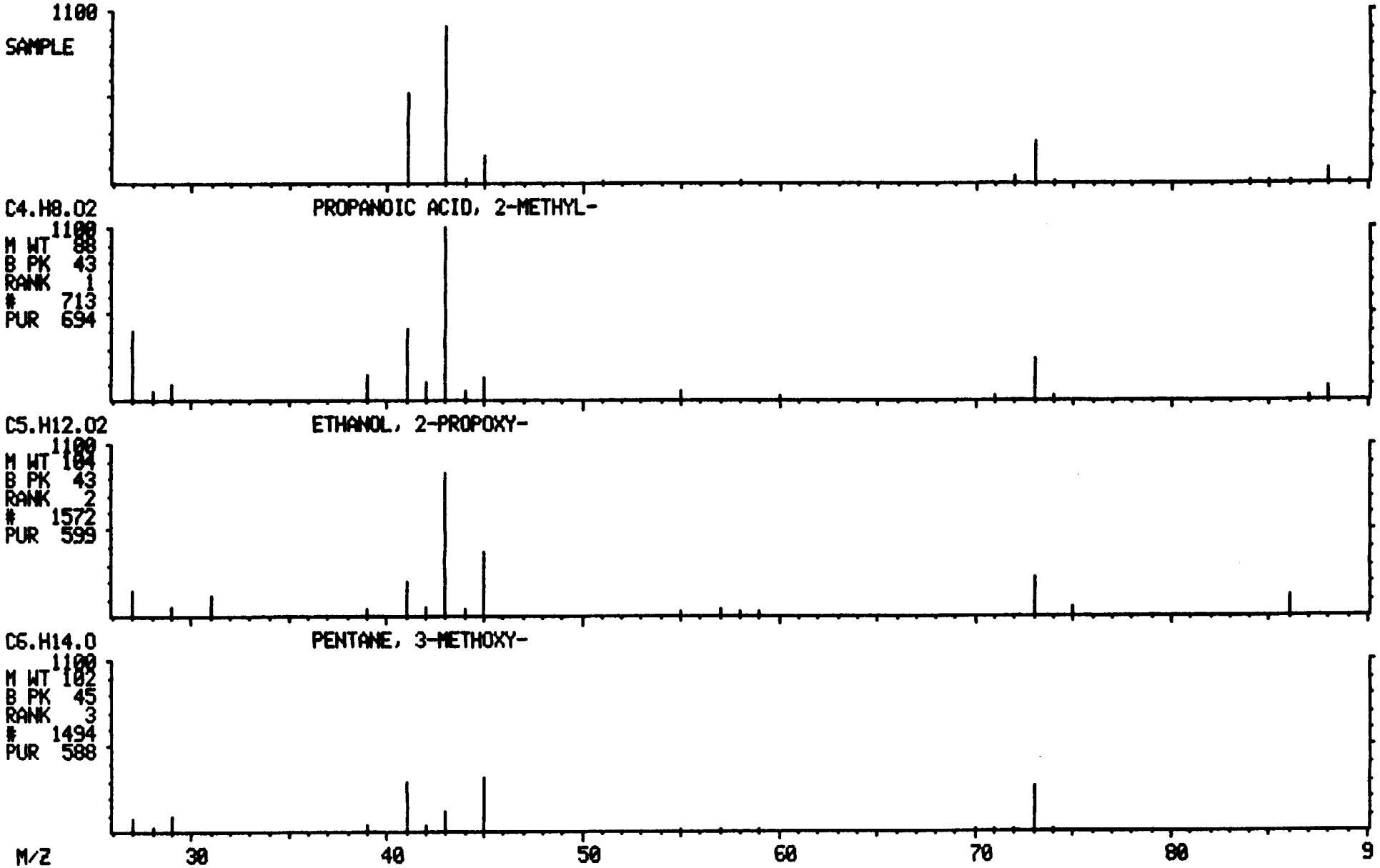
BASE M/Z: 112
RIC: 77951.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 7:23
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 443
CALI: EQ325 # 2

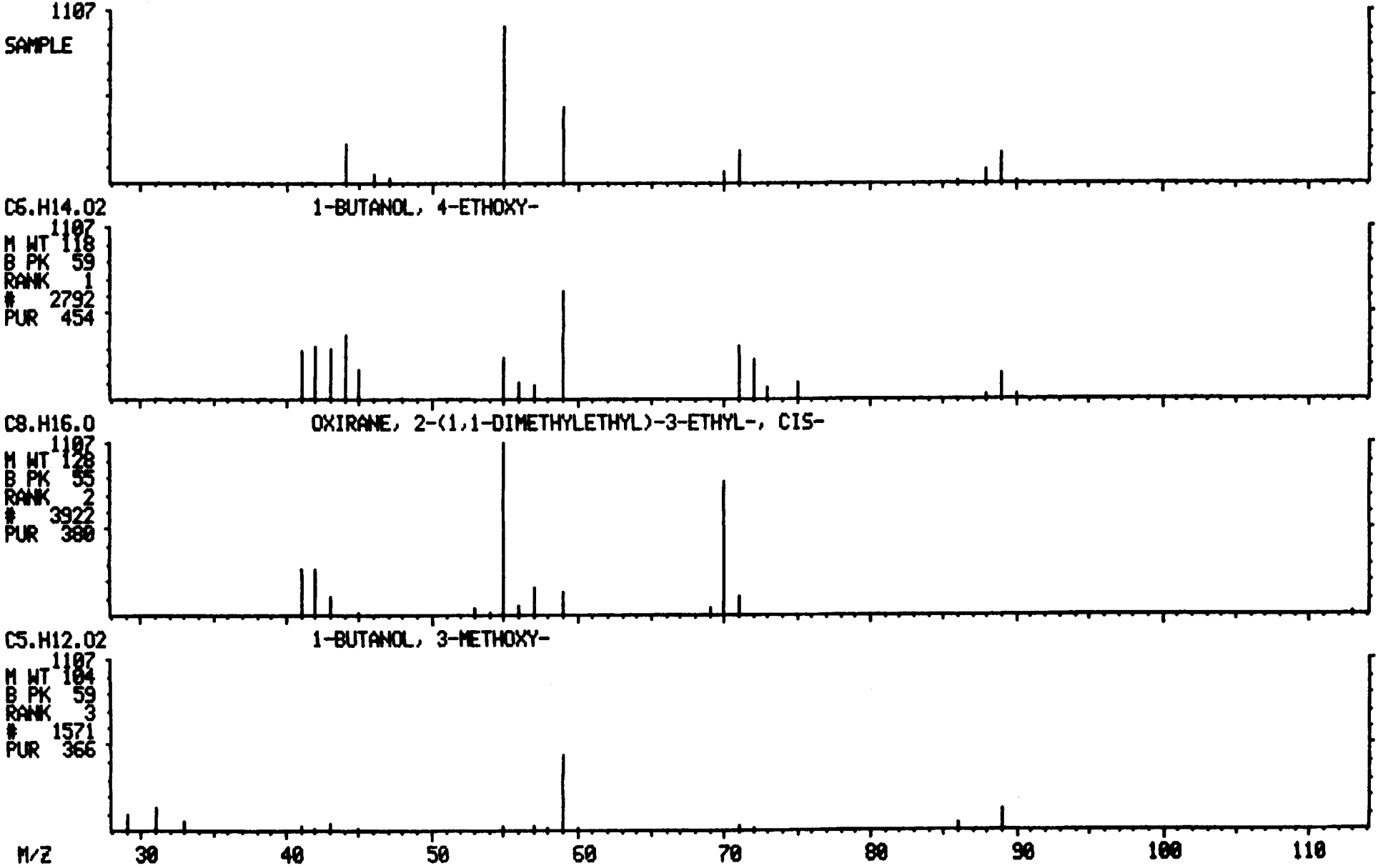
BASE M/Z: 43
RIC: 29247.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 8:37
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 517
CALI: EQ325 # 2

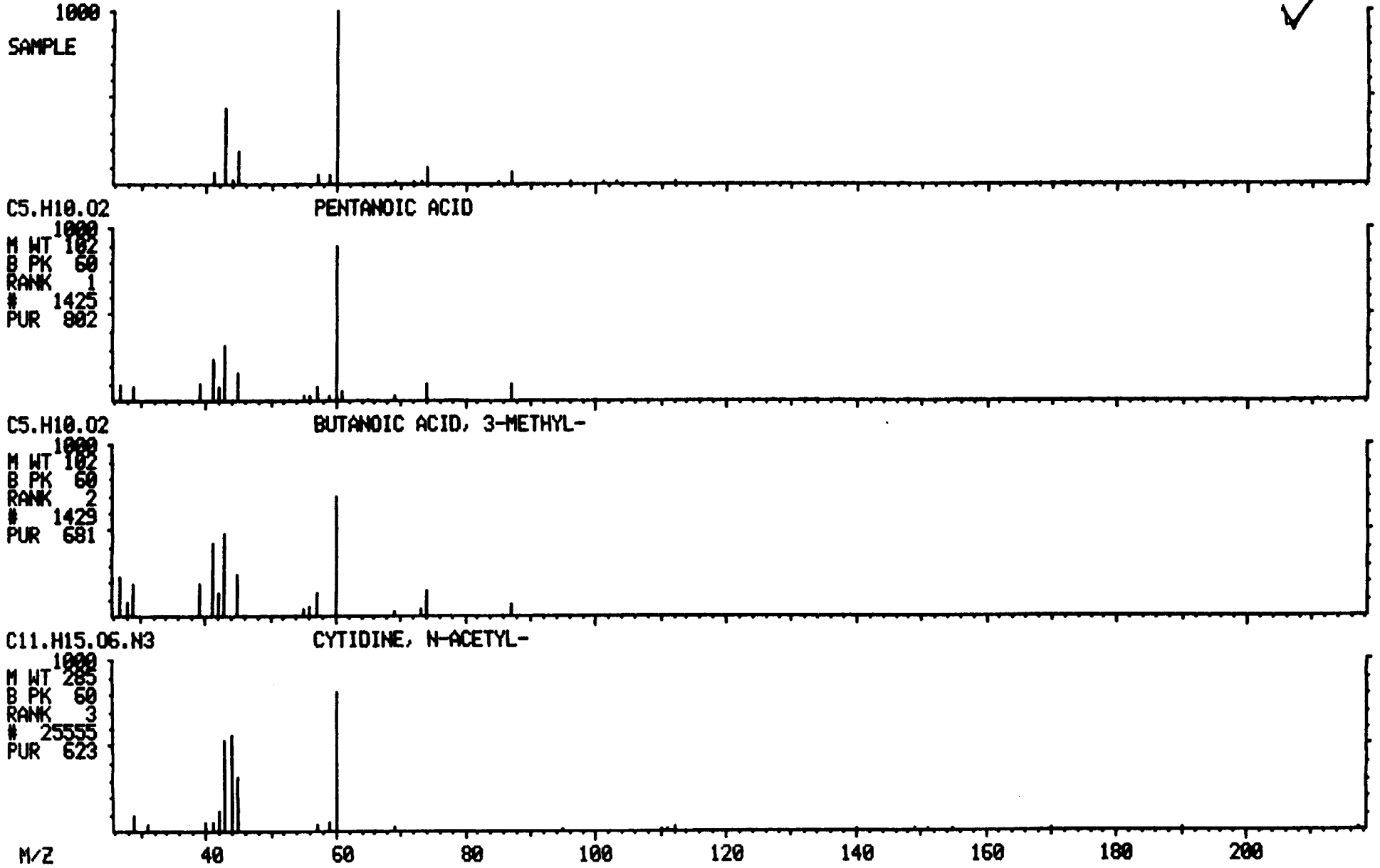
BASE M/Z: 55
RIC: 16639.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 9:18
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 558
CALI: EQ325 # 2

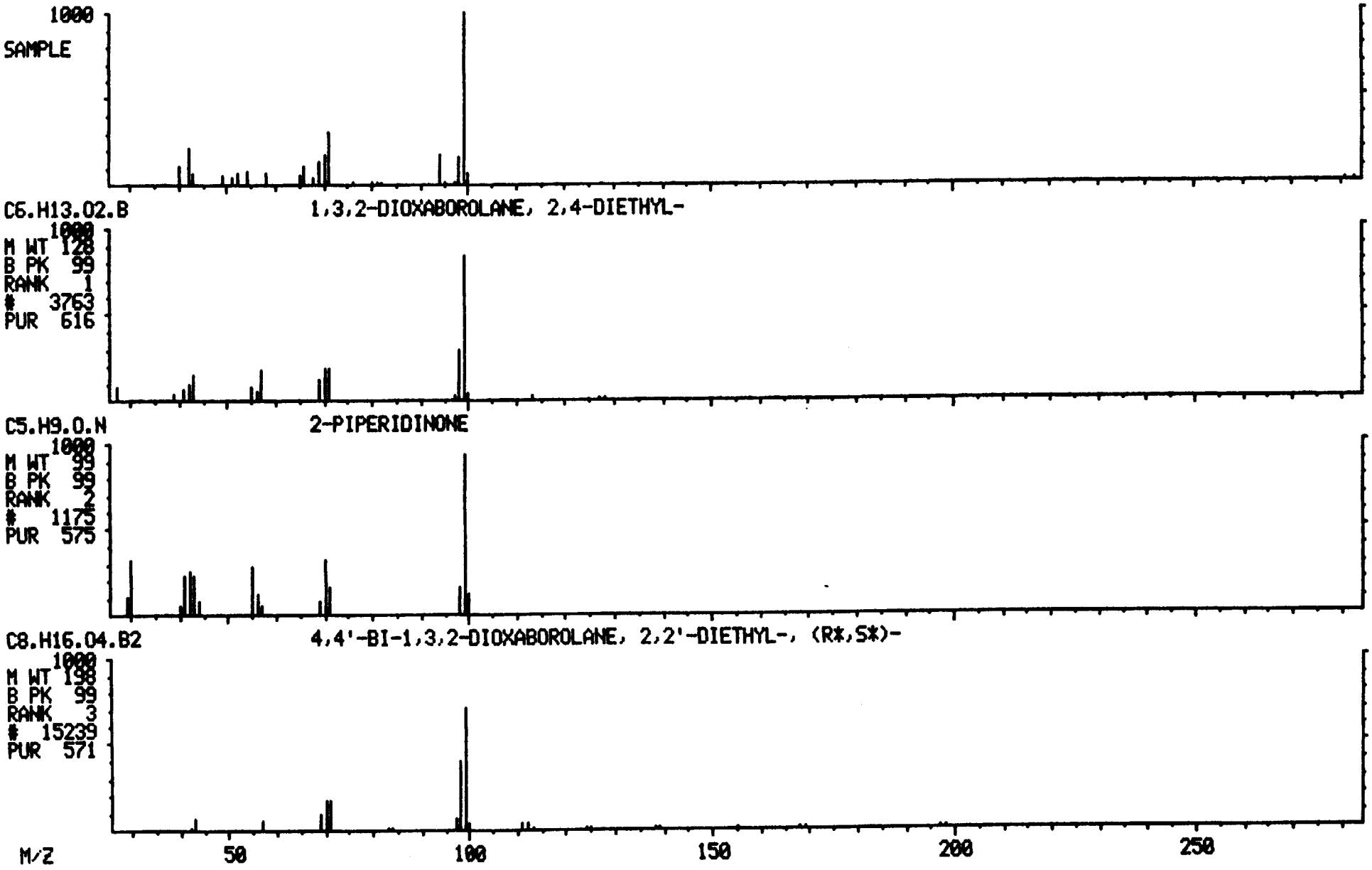
BASE M/Z: 60
RIC: 142847.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 9:38
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 578
CALI: EQ325 # 2

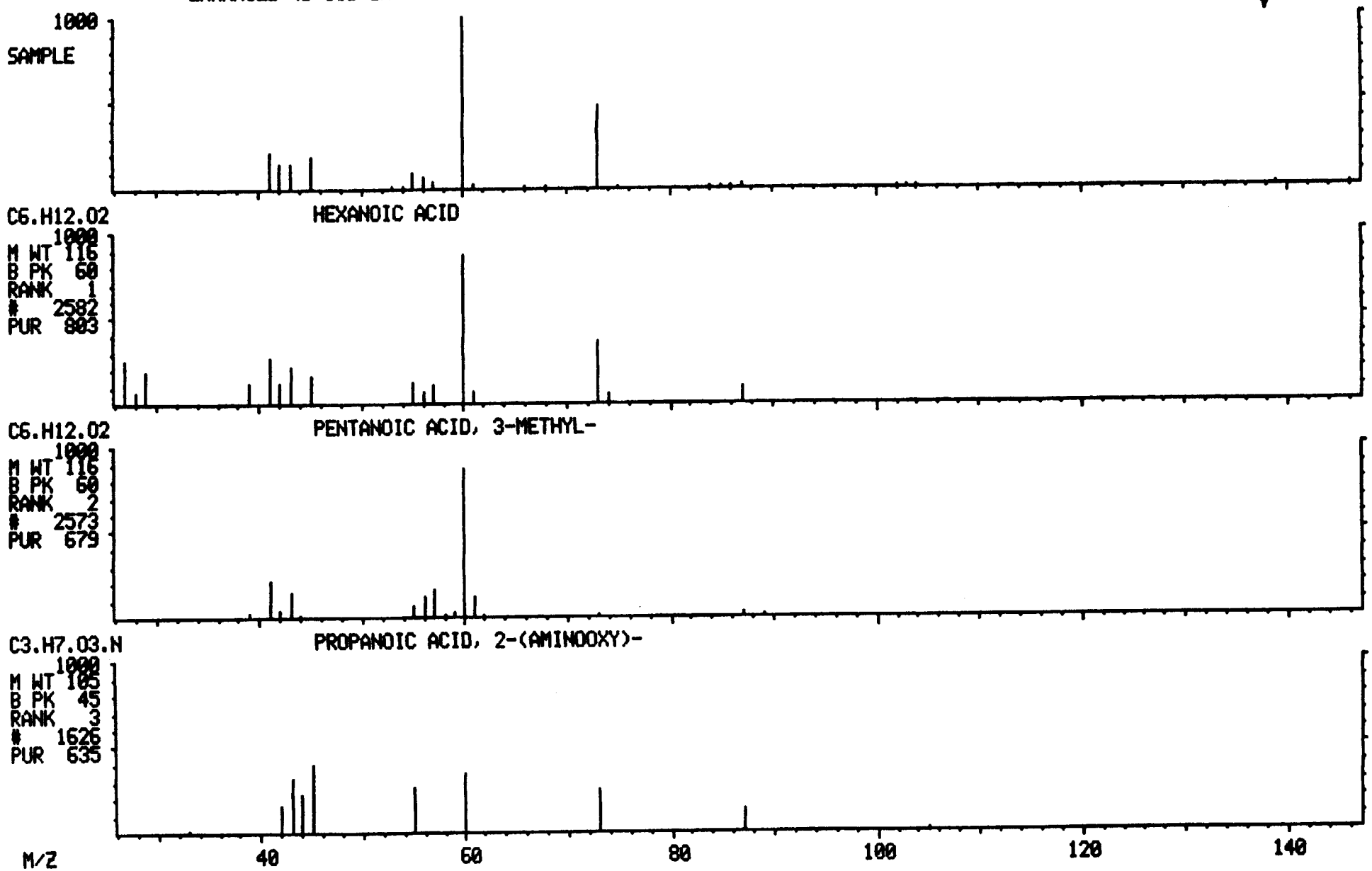
BASE M/Z: 99
RIC: 166911.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 10:19
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 619
CALI: EQ325 # 2

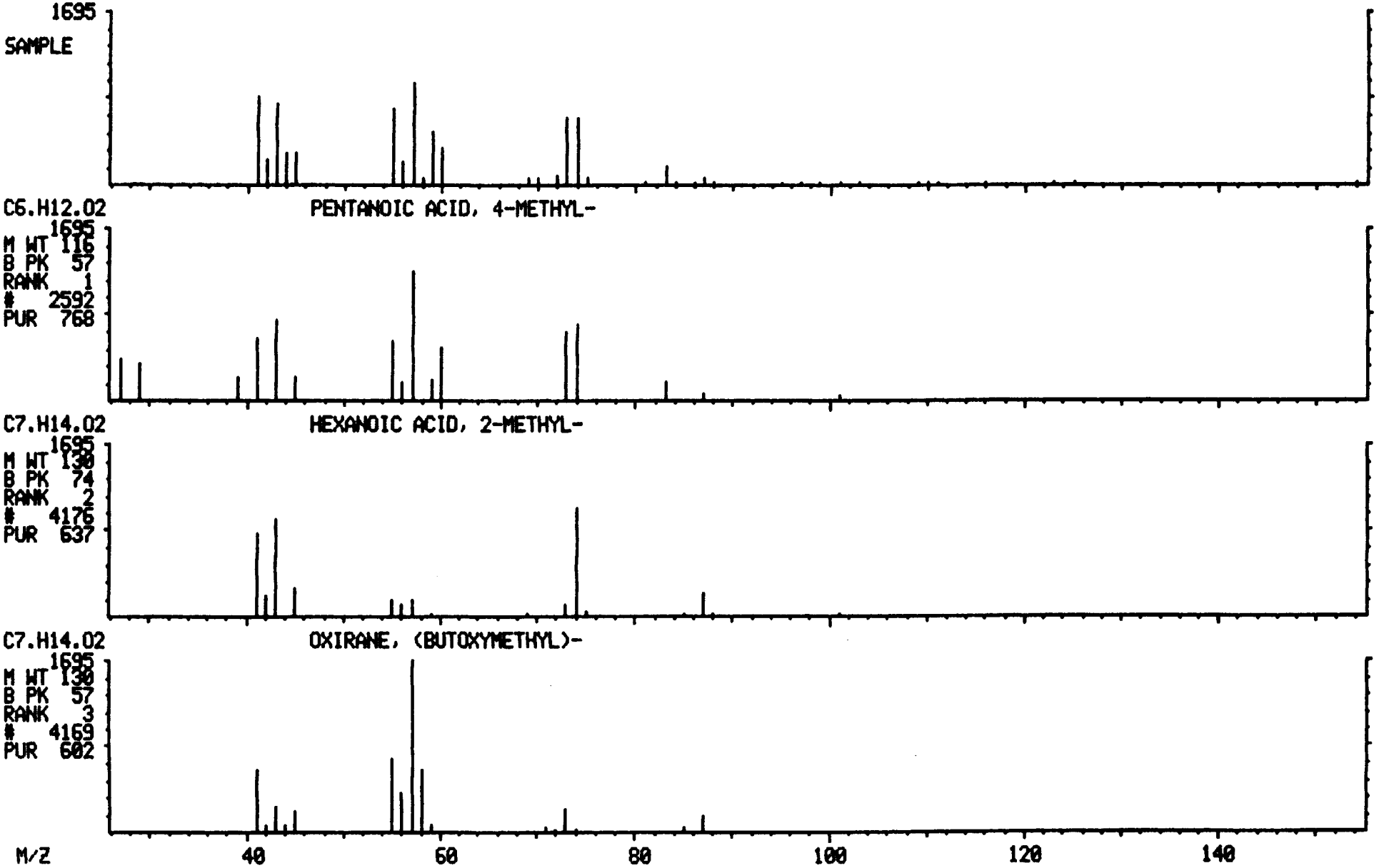
BASE M/Z: 60
RIC: 196863.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 10:32
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 632
CALI: EQ325 # 2

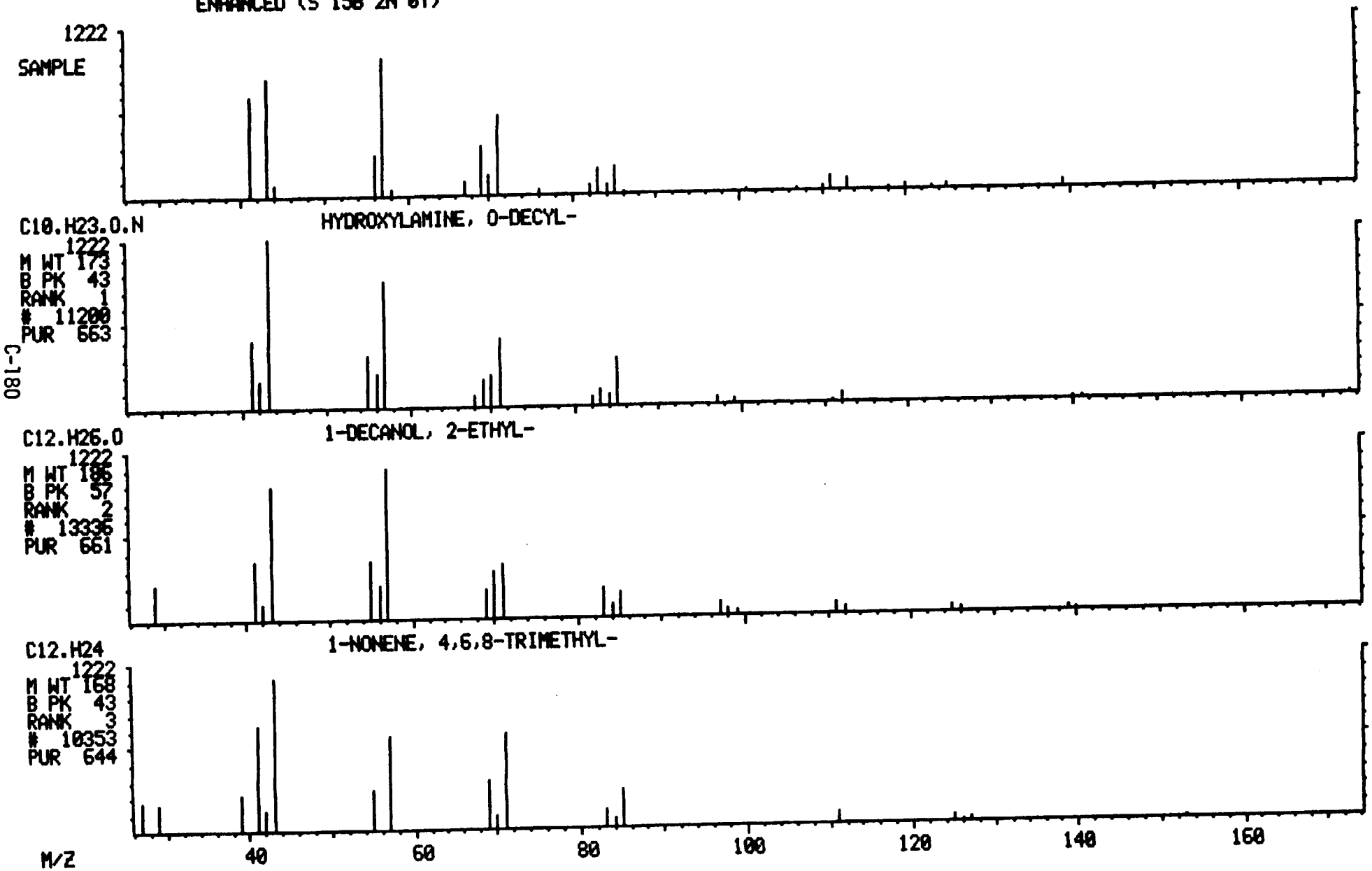
BASE M/Z: 57
RIC: 144639.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 10:56
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 656
CALI: EQ325 # 2

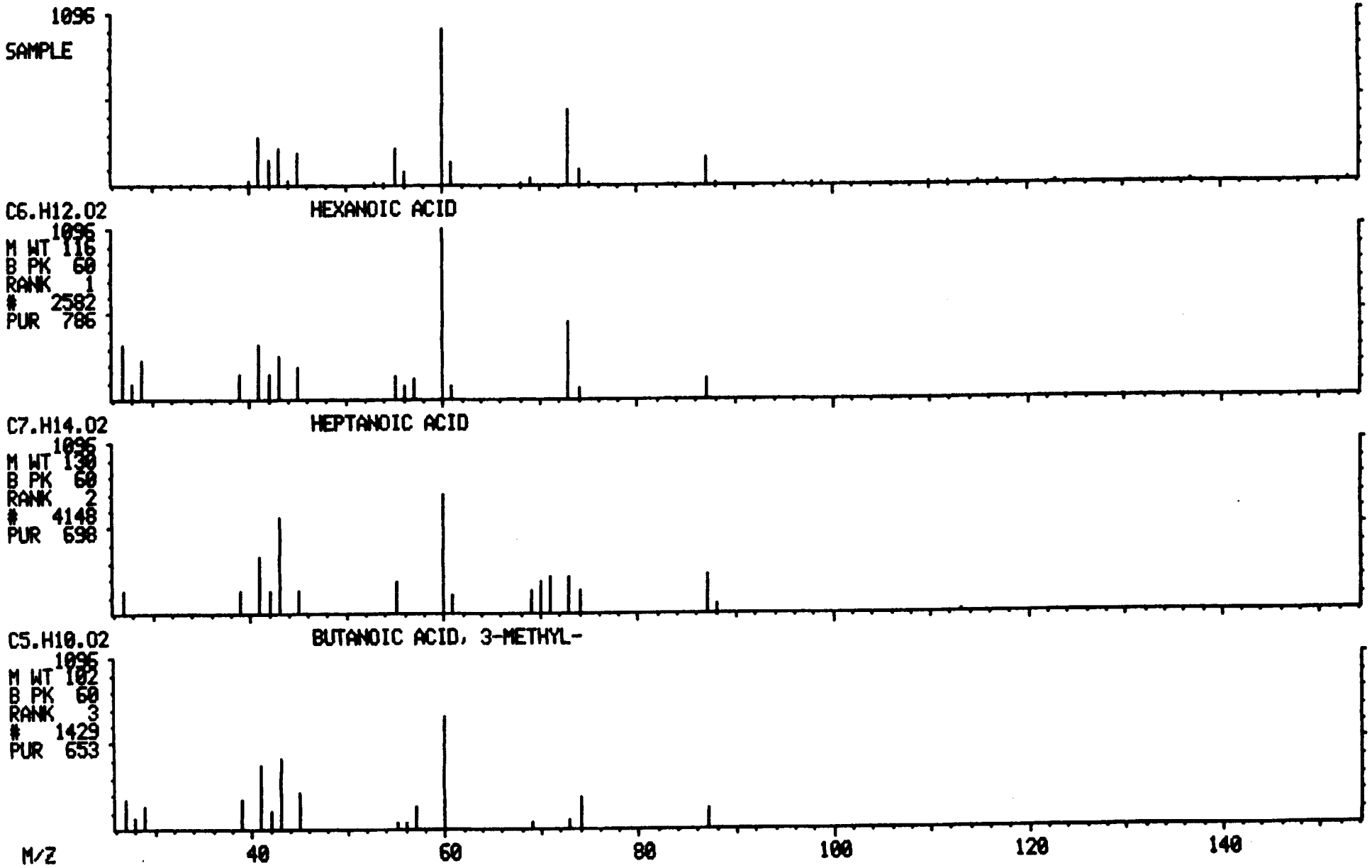
BASE M/Z: 57
RIC: 14383.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 11:15
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 675
CALI: EQ325 # 2

BASE M/Z: 60
RIC: 129407.

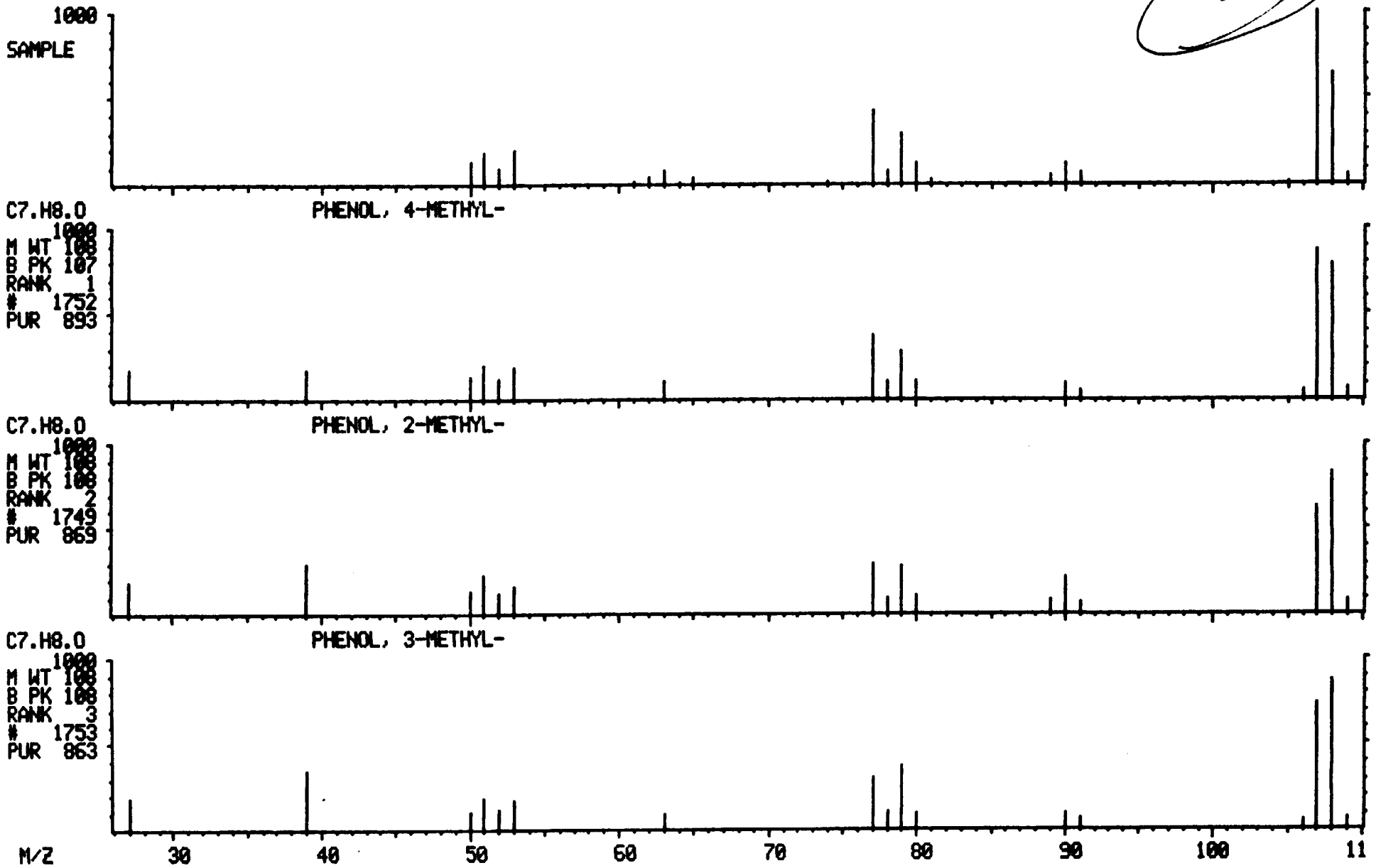


MID LIBRARY SEARCH
08/09/85 17:35:00 + 11:36
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 696
CALI: EQ325 # 2

BASE M/Z: 107
RIC: 232191.

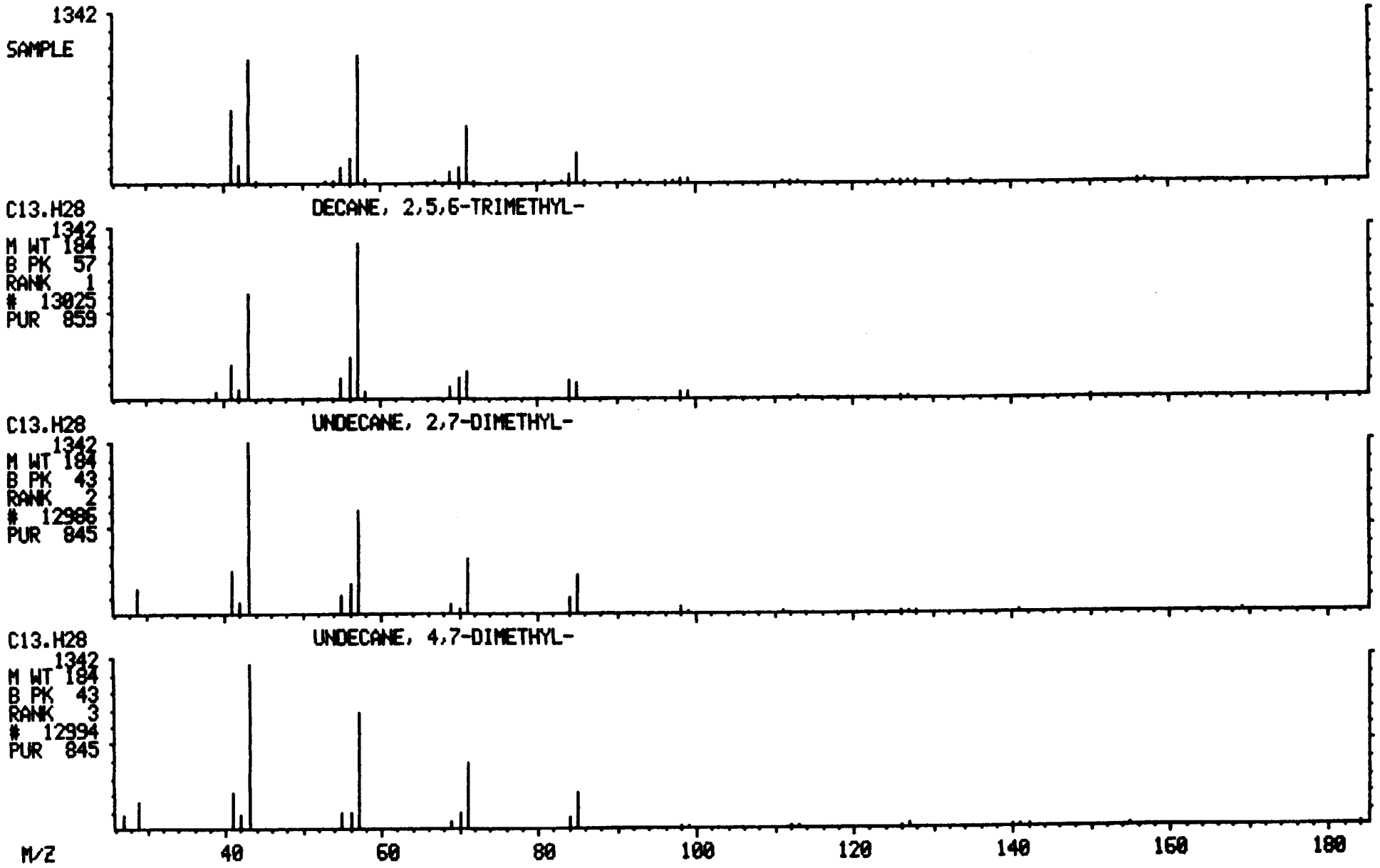
1+SL



MID LIBRARY SEARCH
08/09/85 17:35:00 + 11:43
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 703
CALI: EQ325 # 2

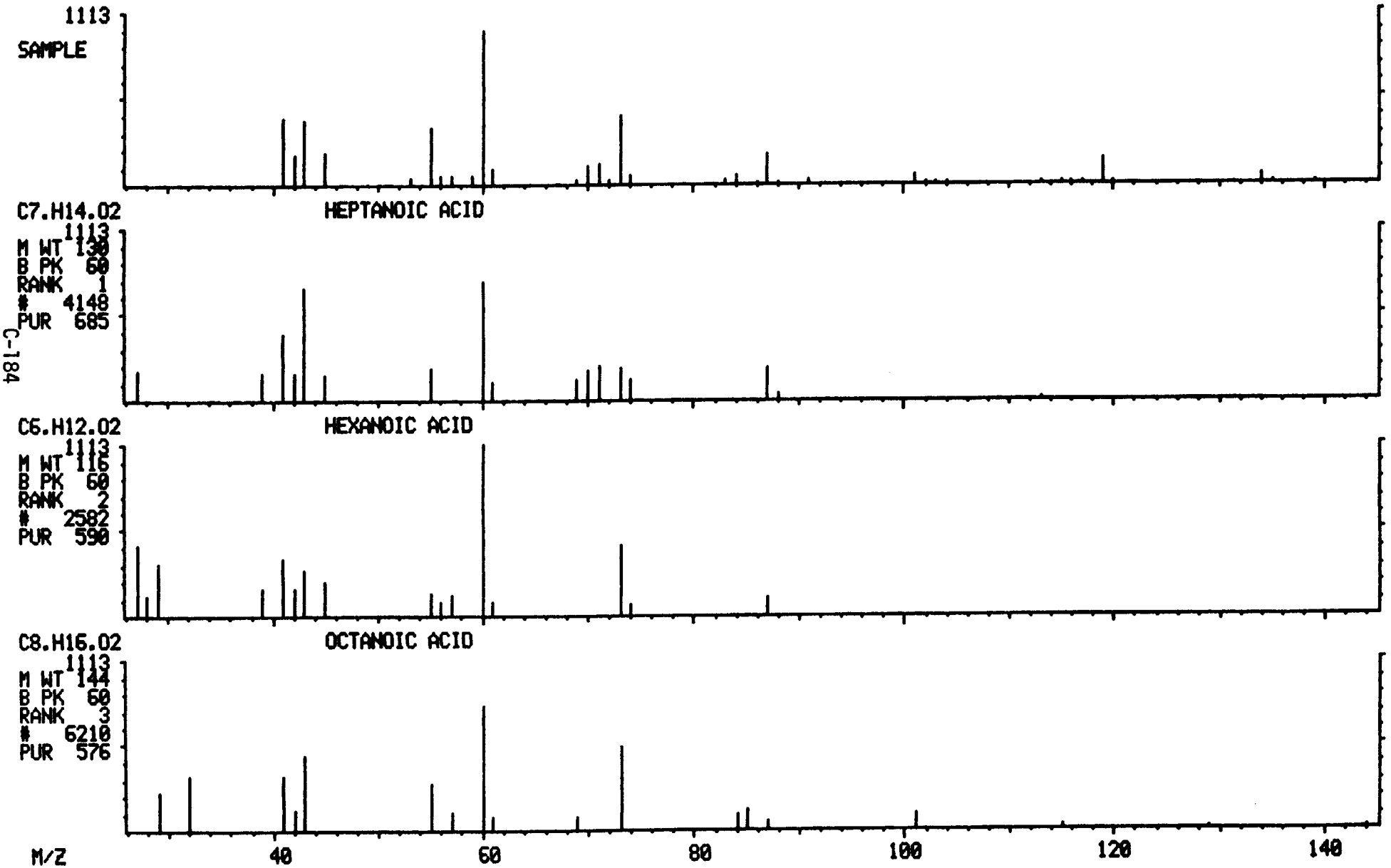
BASE M/Z: 57
RIC: 131327.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 12:11
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 731
CALI: EQ325 # 2

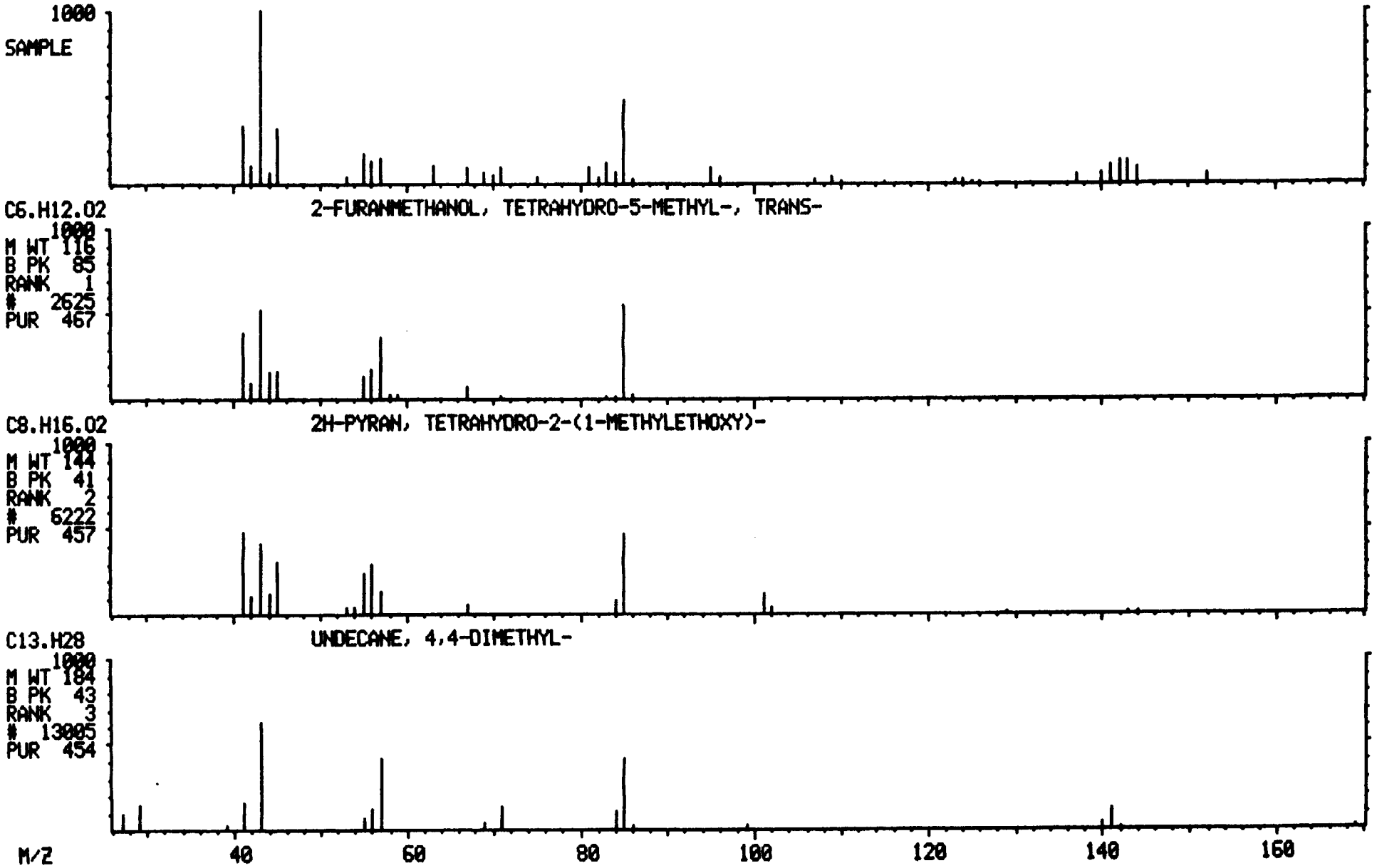
BASE M/Z: 60
RIC: 58879.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 12:17
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 737
CALI: EQ325 # 2

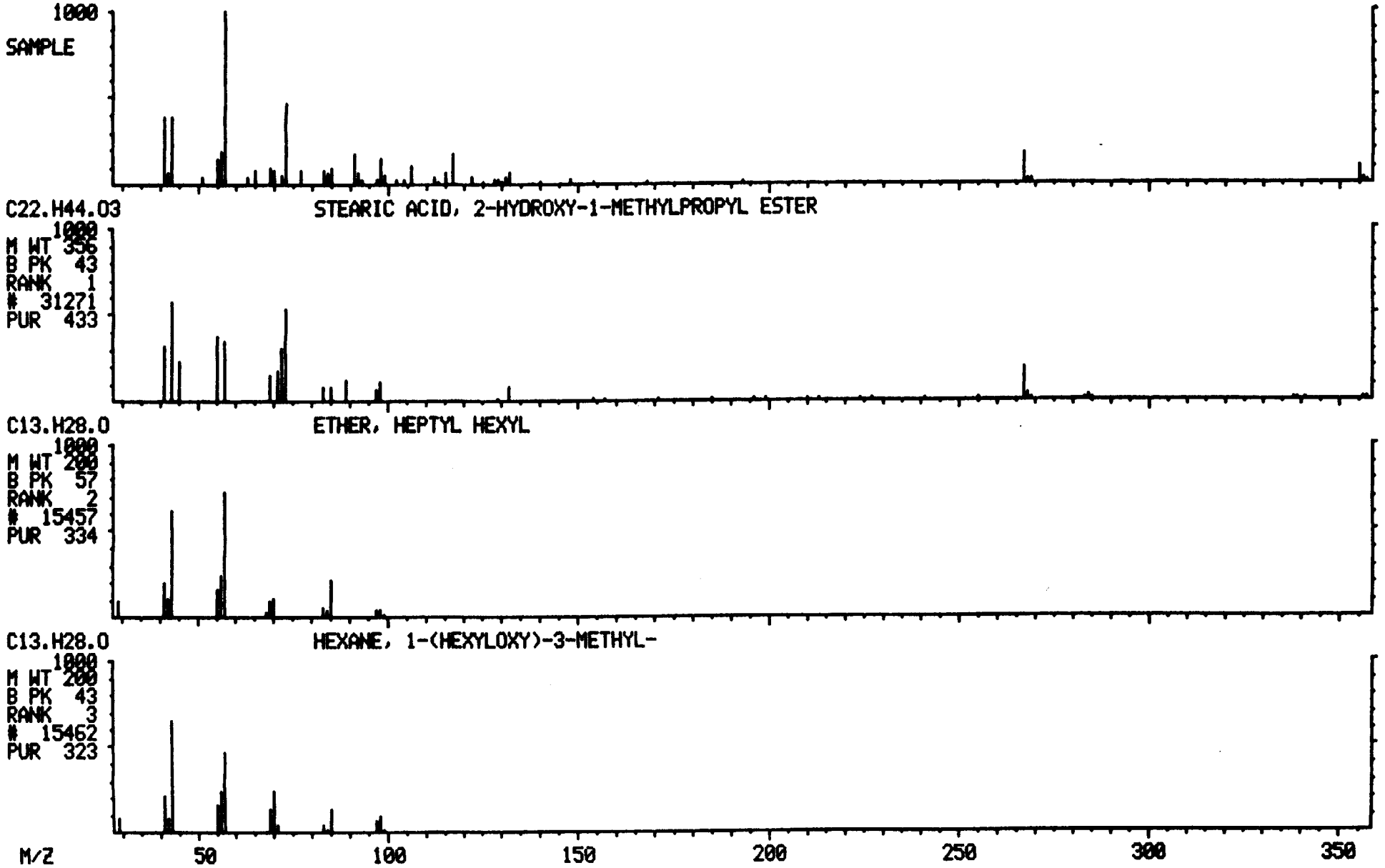
BASE M/Z: 43
RIC: 62463.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 12:48
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 768
CALI: EQ325 # 2

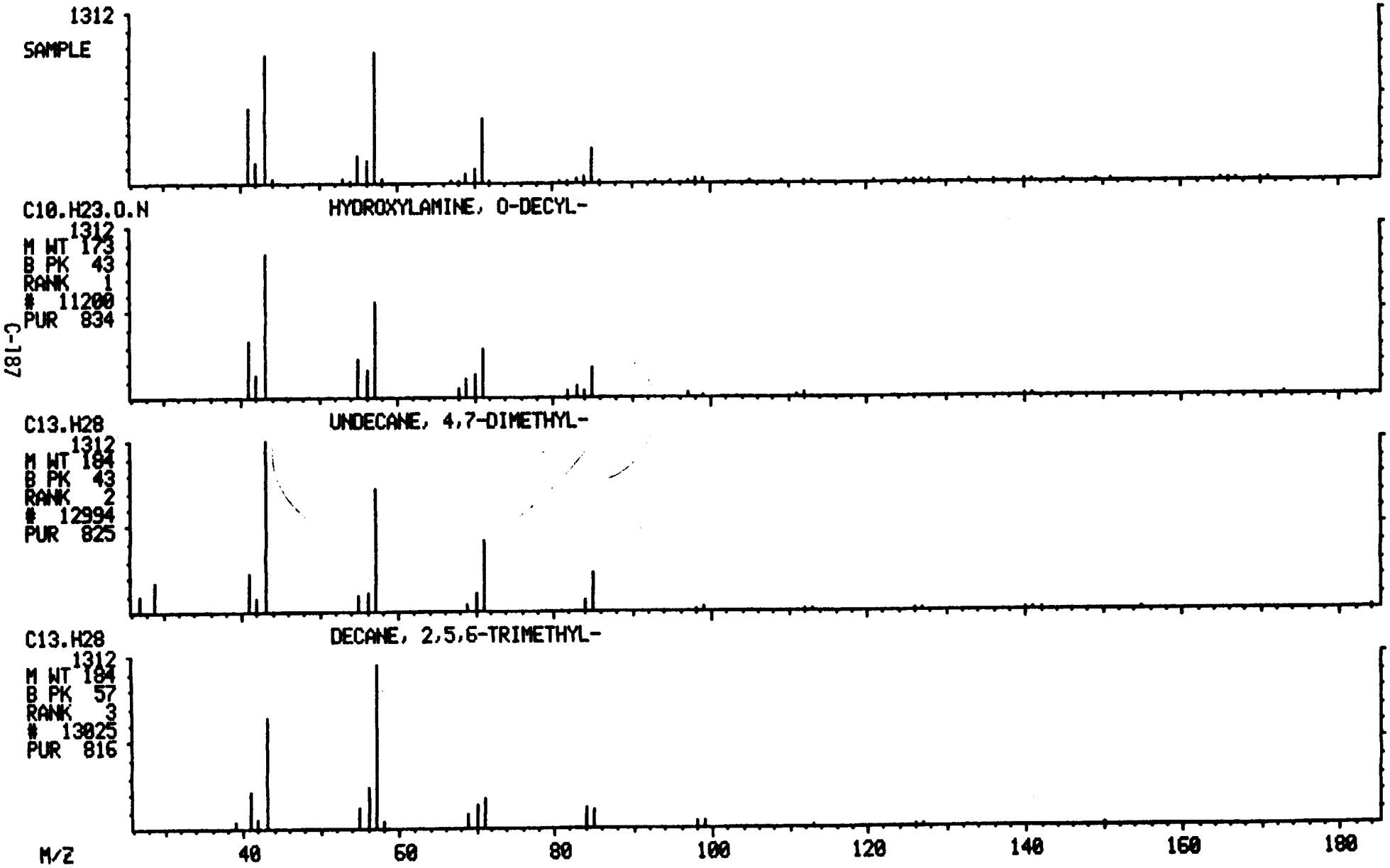
BASE M/Z: 57
RIC: 23647.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 13:41
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 821
CALI: EQ325 # 2

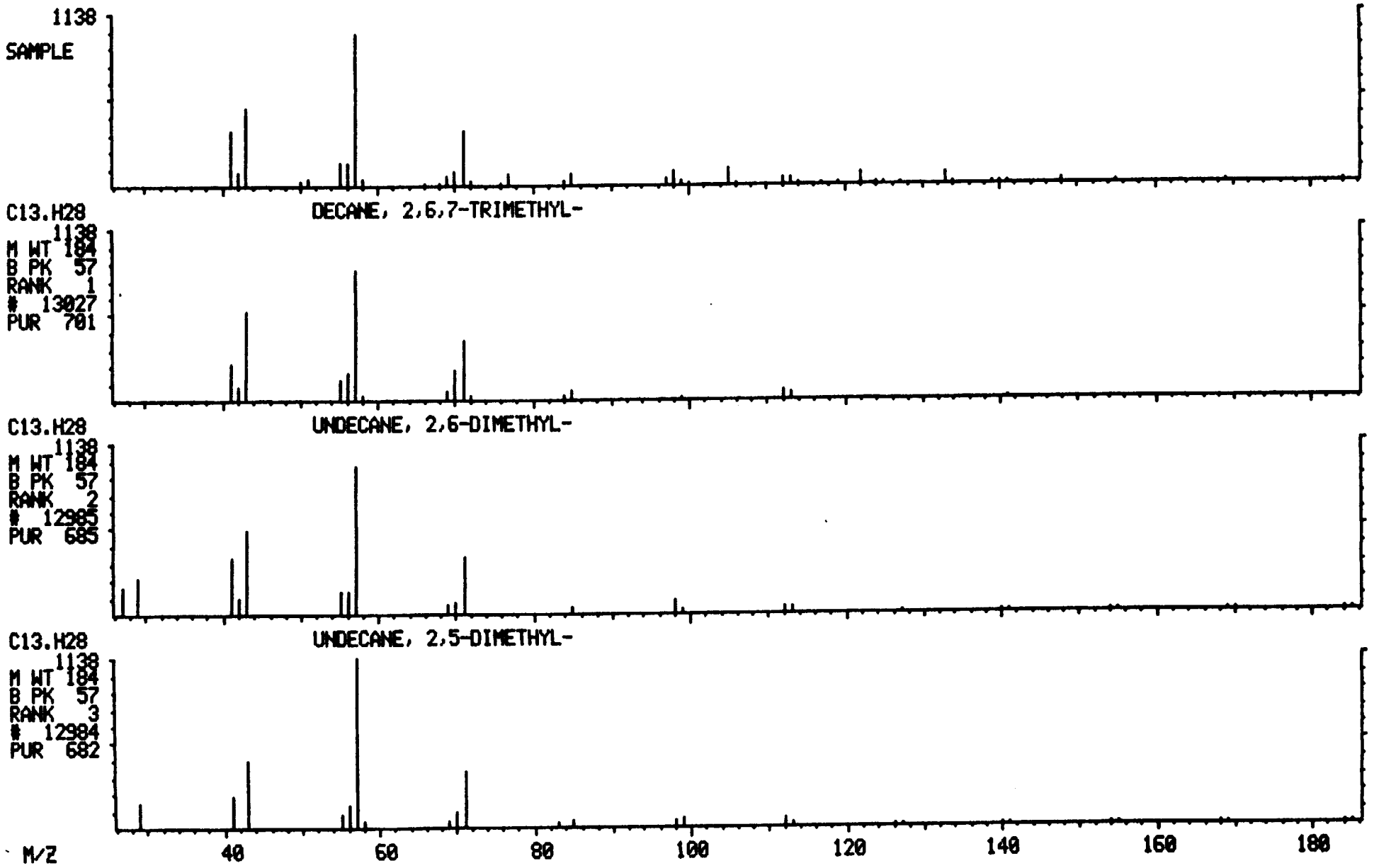
BASE M/Z: 57
RIC: 163583.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 13:56
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 836
CALI: EQ325 # 2

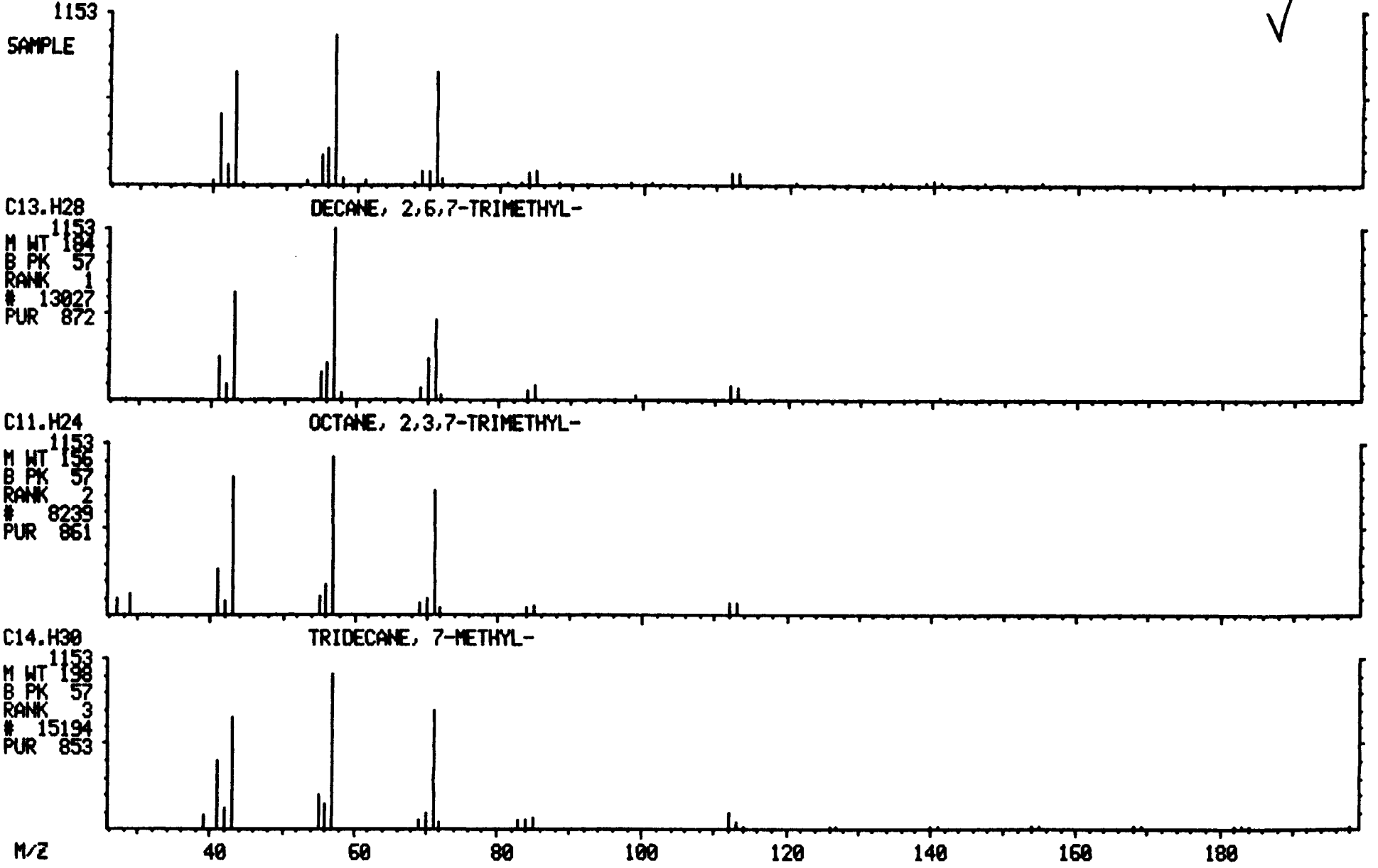
BASE M/Z: 57
RIC: 54591.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 15:02
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 902
CALI: EQ325 # 2

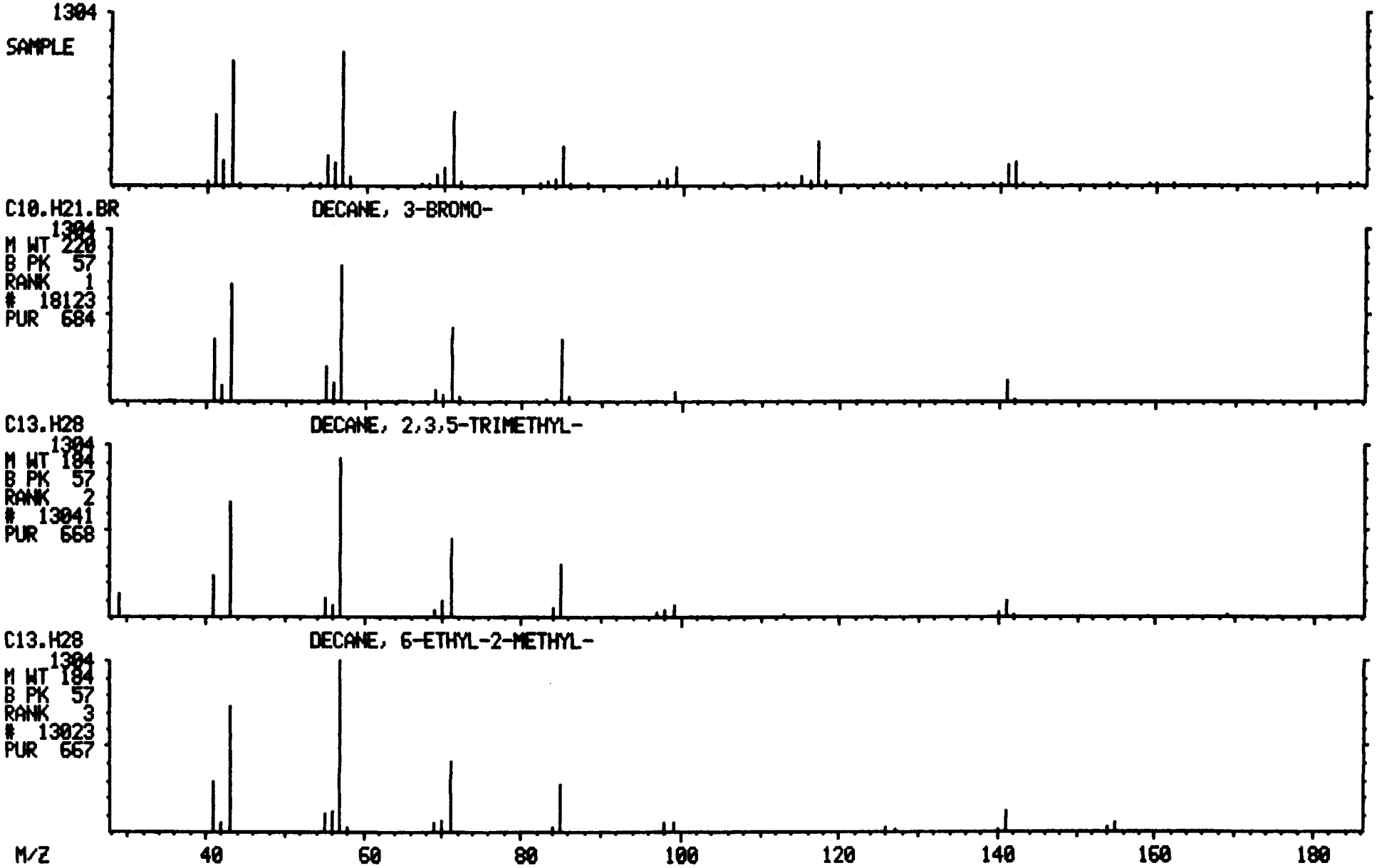
BASE M/Z: 57
RIC: 53247.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 15:32
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 932
CALI: EQ325 # 2

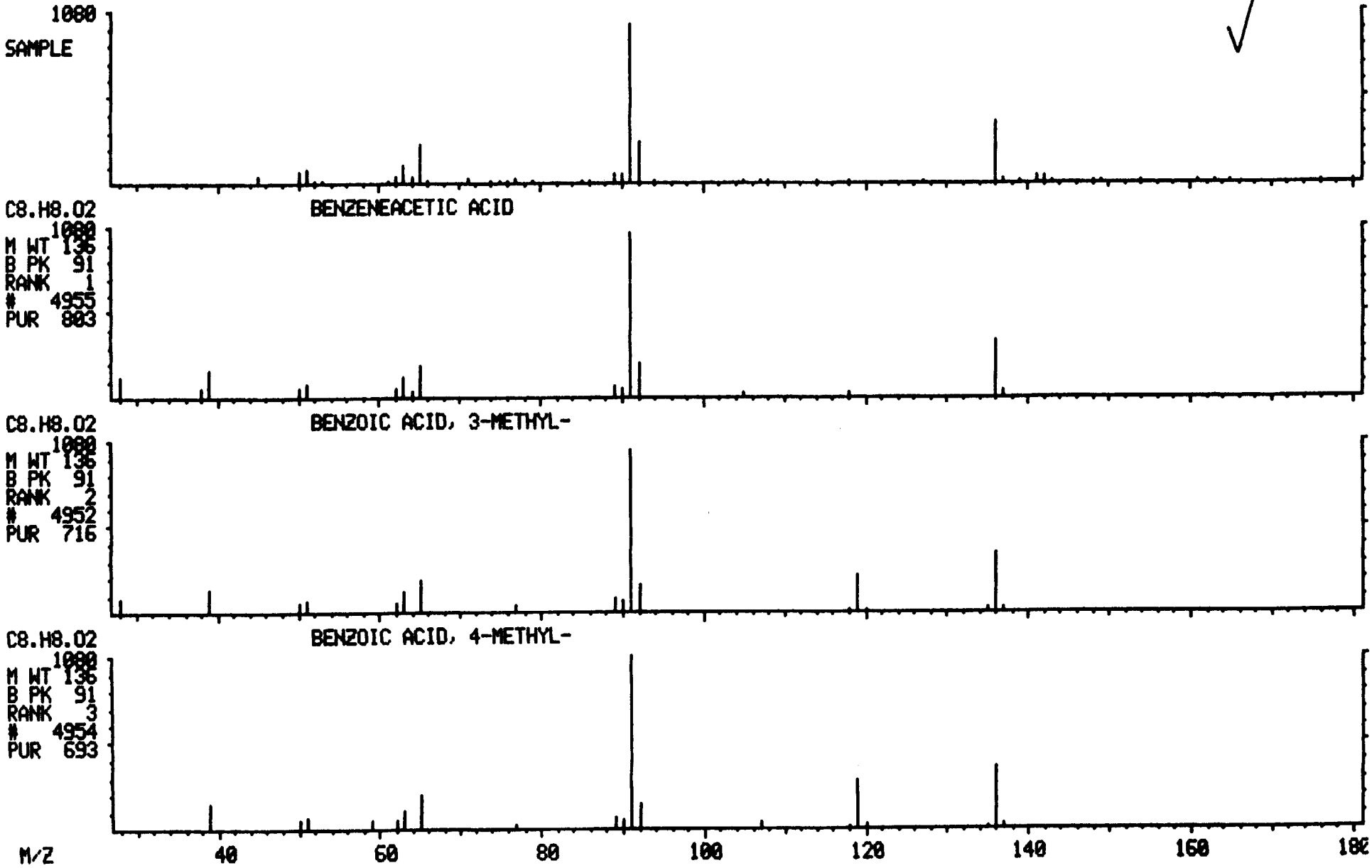
BASE M/Z: 57
RIC: 207615.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 15:50
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 # 950
CALI: EQ325 # 2

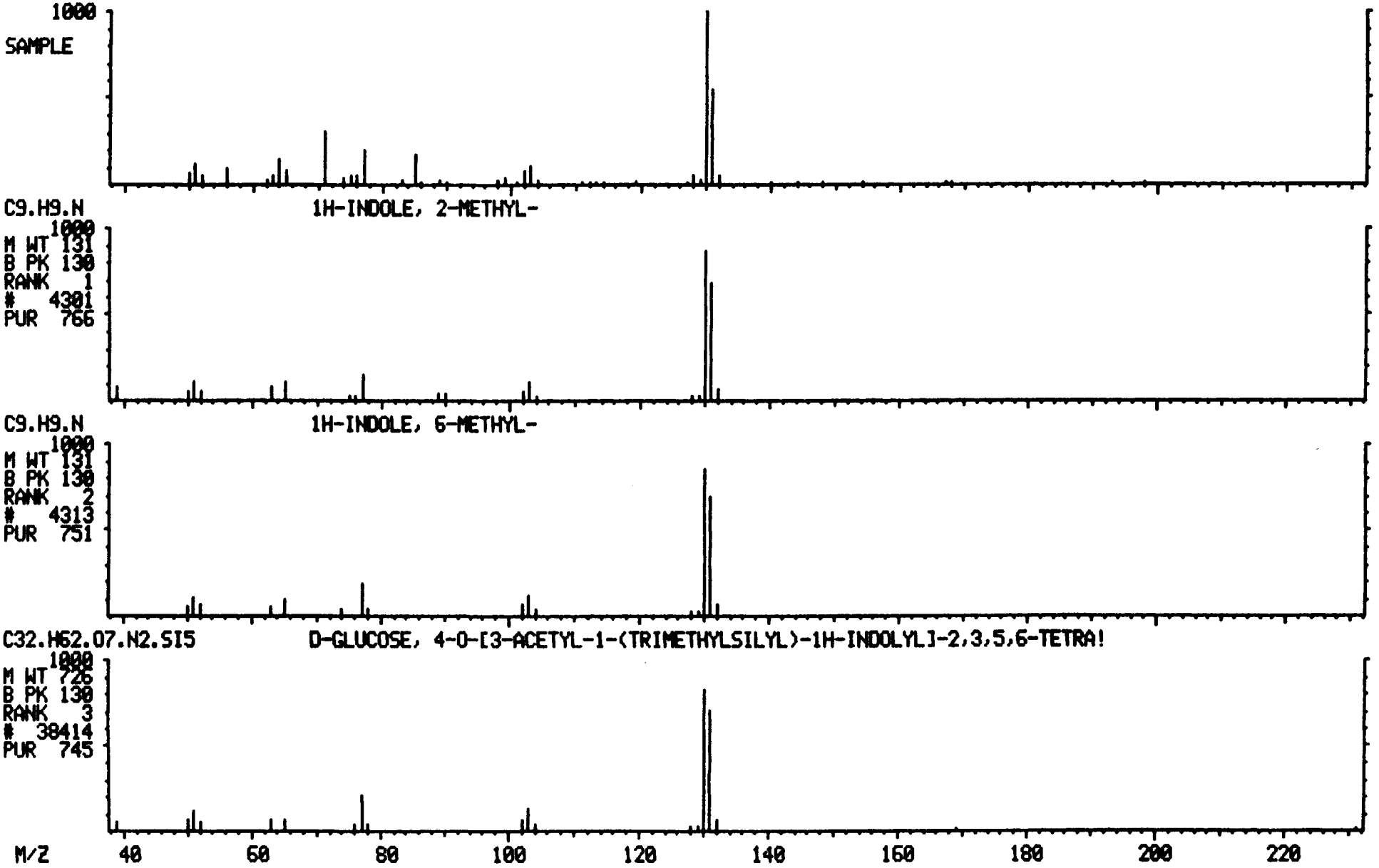
BASE M/Z: 91
RIC: 155135.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 17:14
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1034
CALI: EQ325 # 2

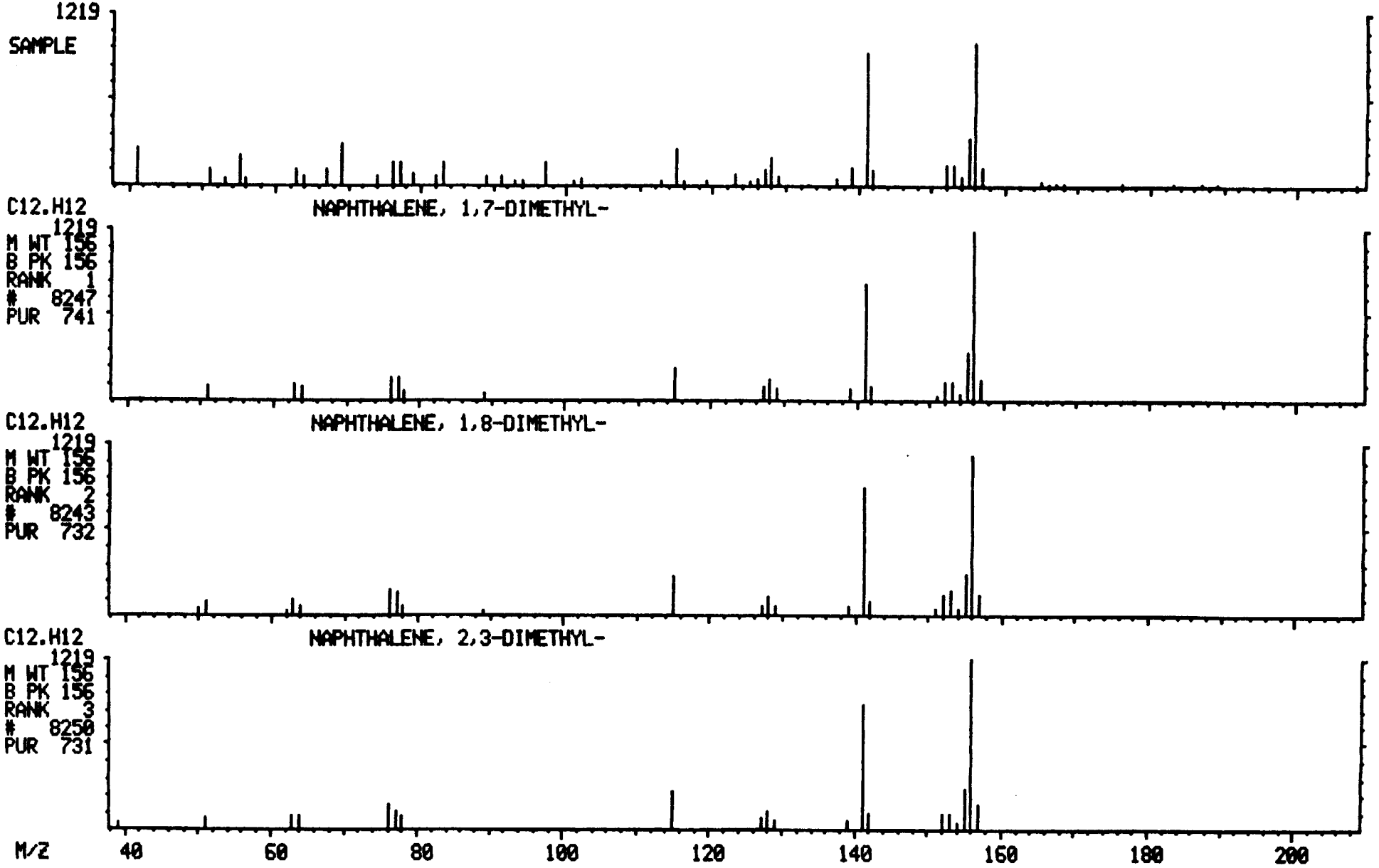
BASE M/Z: 130
RIC: 211711.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 17:46
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1066
CALI: EQ325 # 2

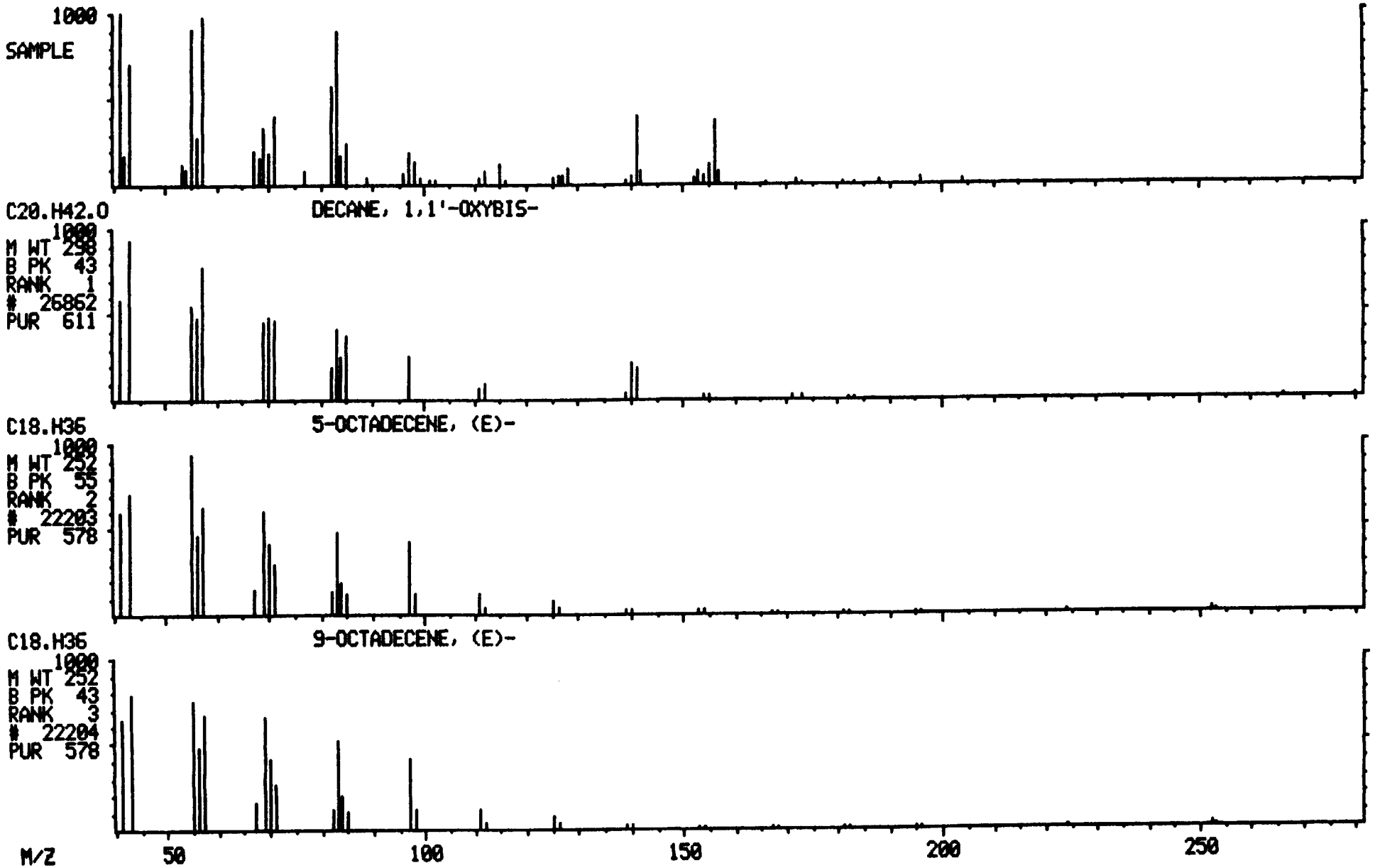
BASE M/Z: 156
RIC: 34303.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 18:05
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 150 2N 0T)

DATA: EQ325 #1085
CALI: EQ325 # 2

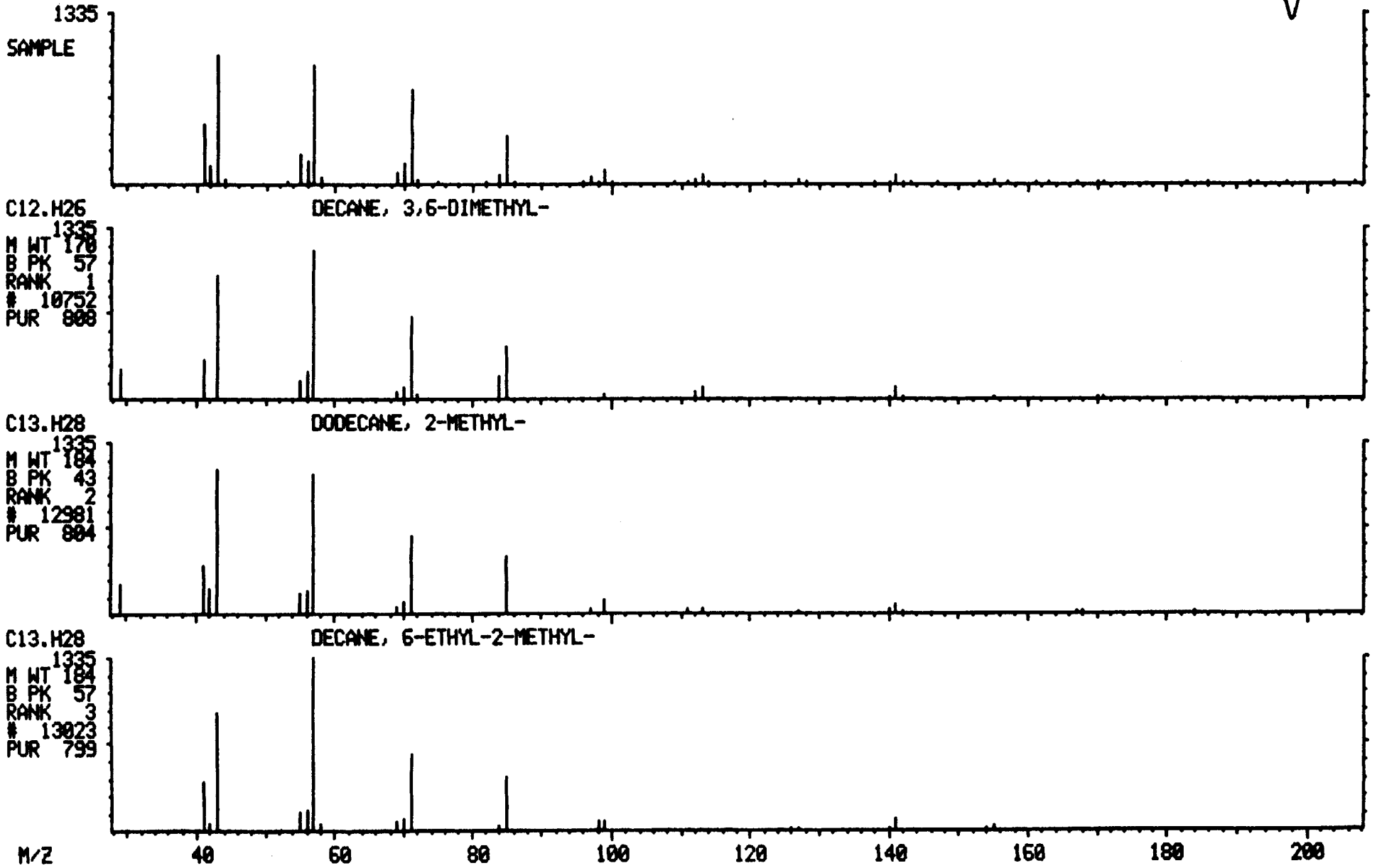
BASE M/Z: 41
RIC: 50943.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 18:18
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1098
CALI: EQ325 # 2

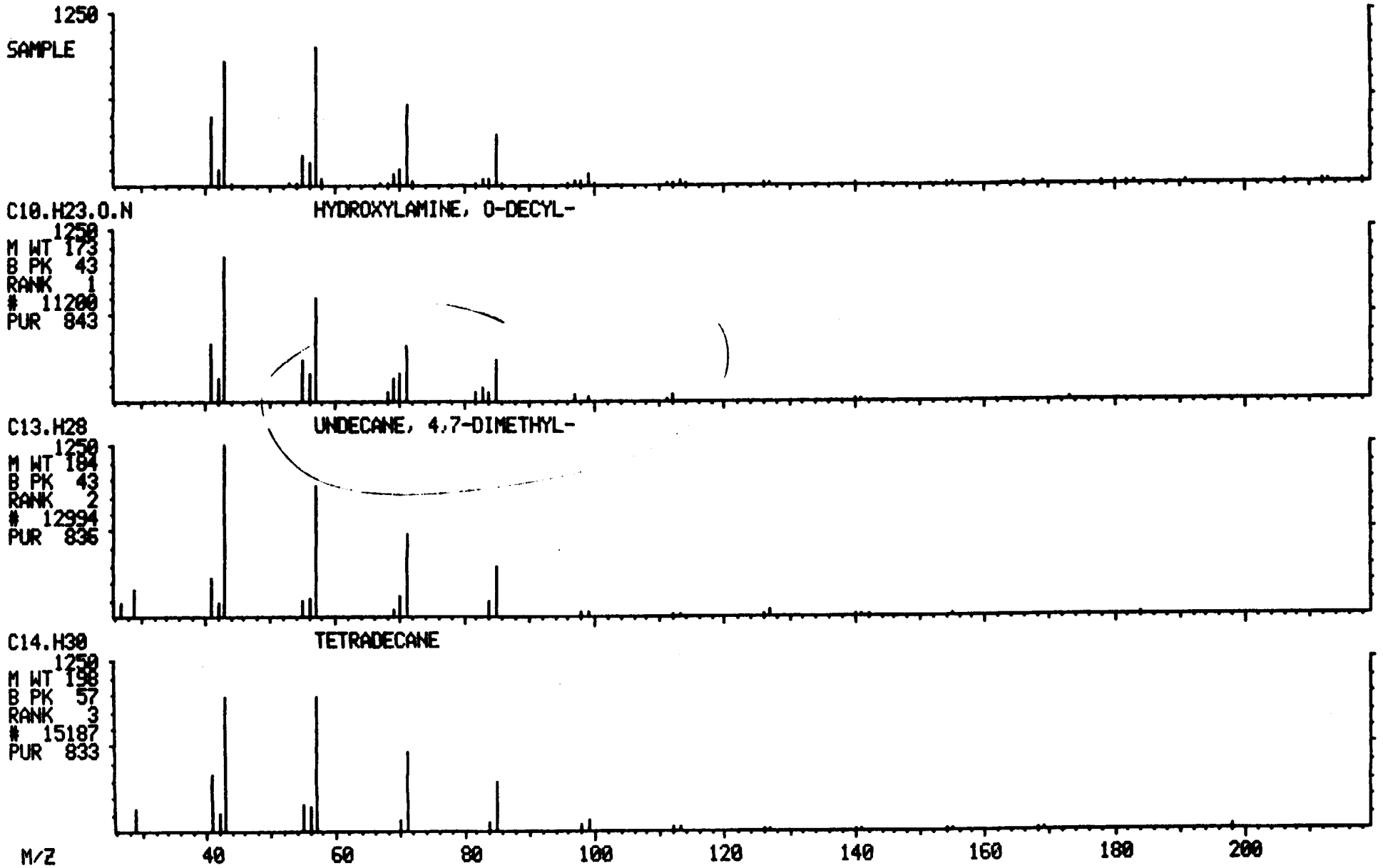
BASE M/Z: 43
RIC: 93183.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 18:55
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1135
CALI: EQ325 # 2

BASE M/Z: 57
RIC: 288255.

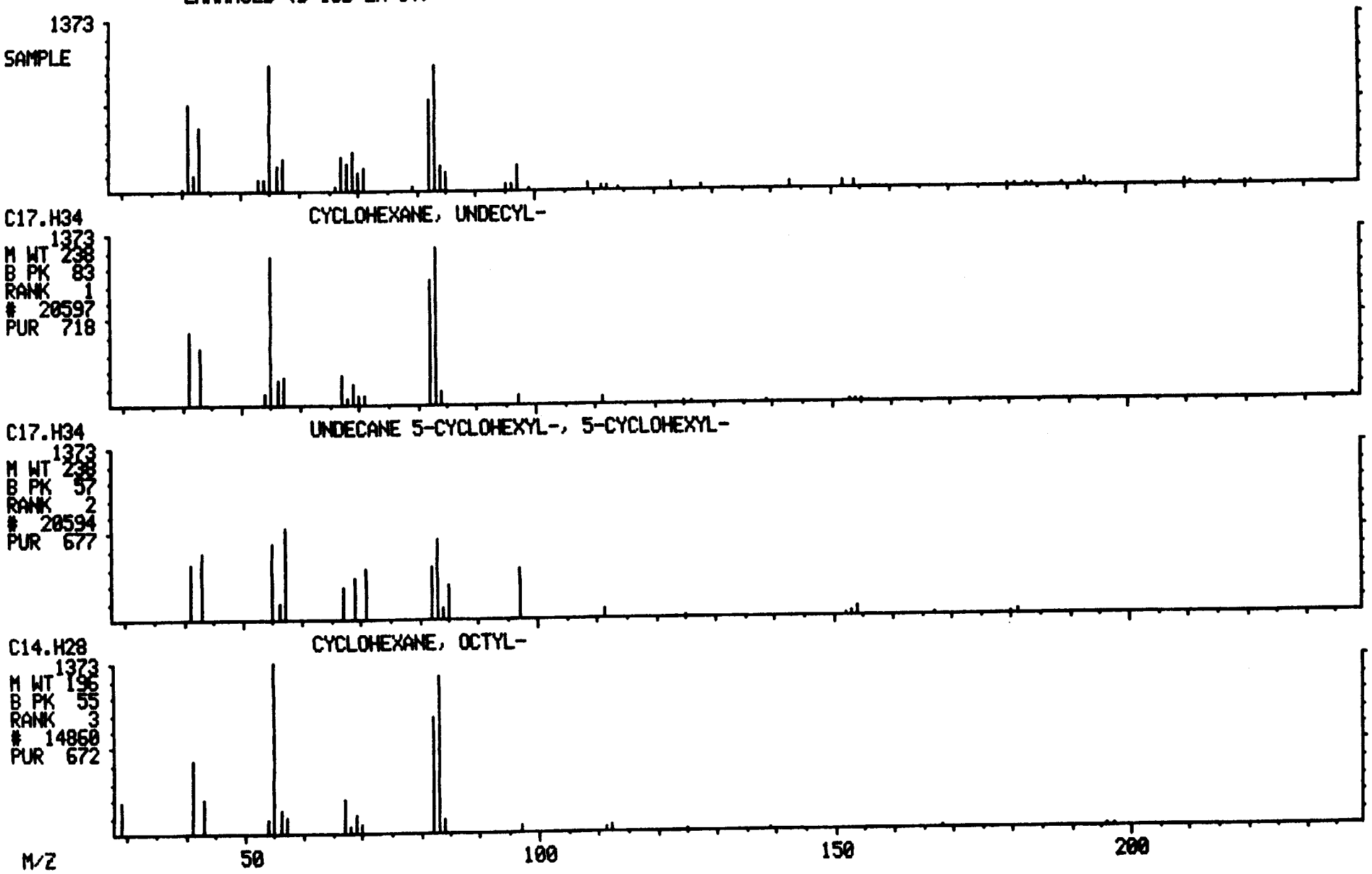


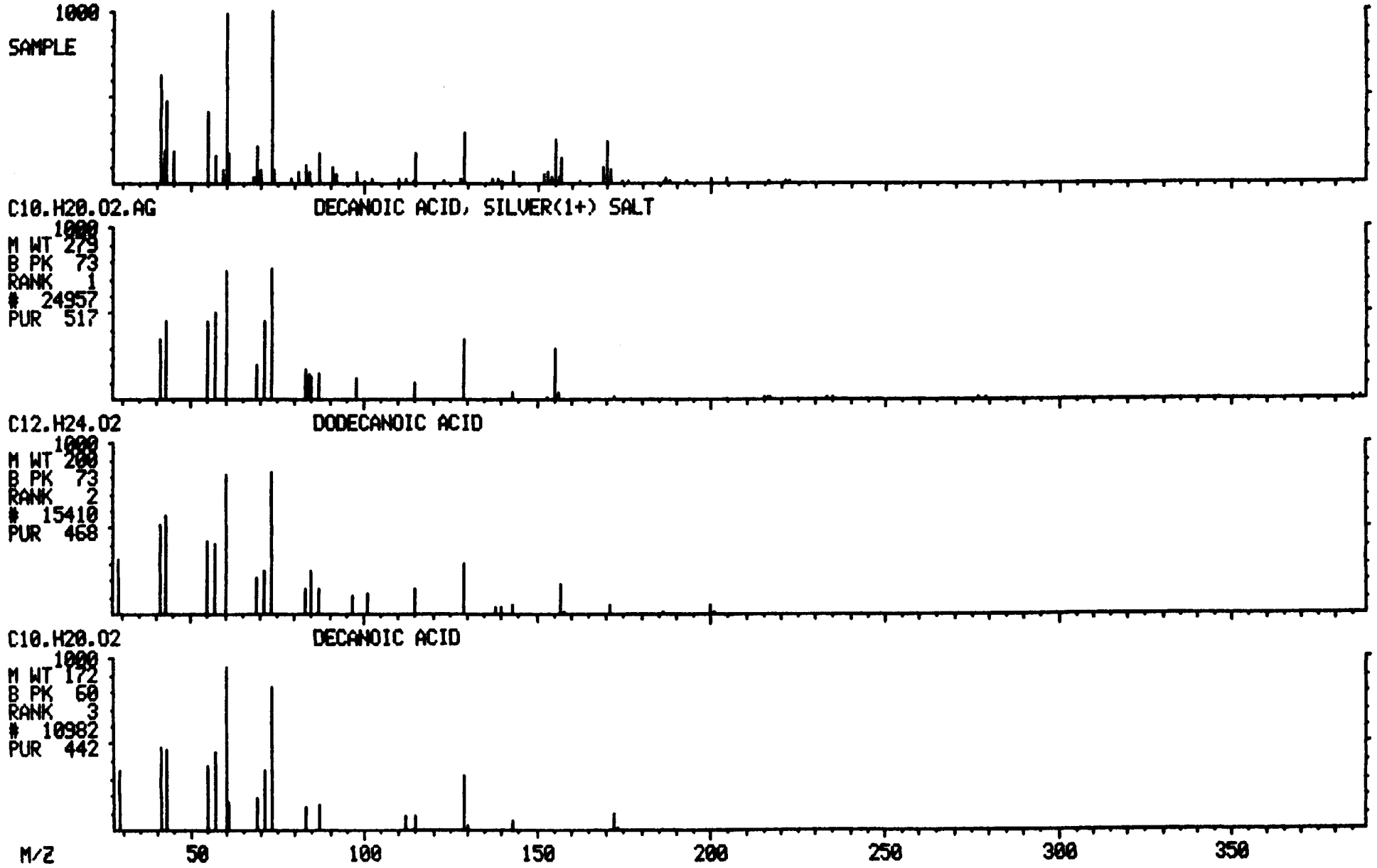
C-196

MID LIBRARY SEARCH
08/09/85 17:35:00 + 19:47
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1187
CALI: EQ325 # 2

BASE M/Z: 83
RIC: 42047.

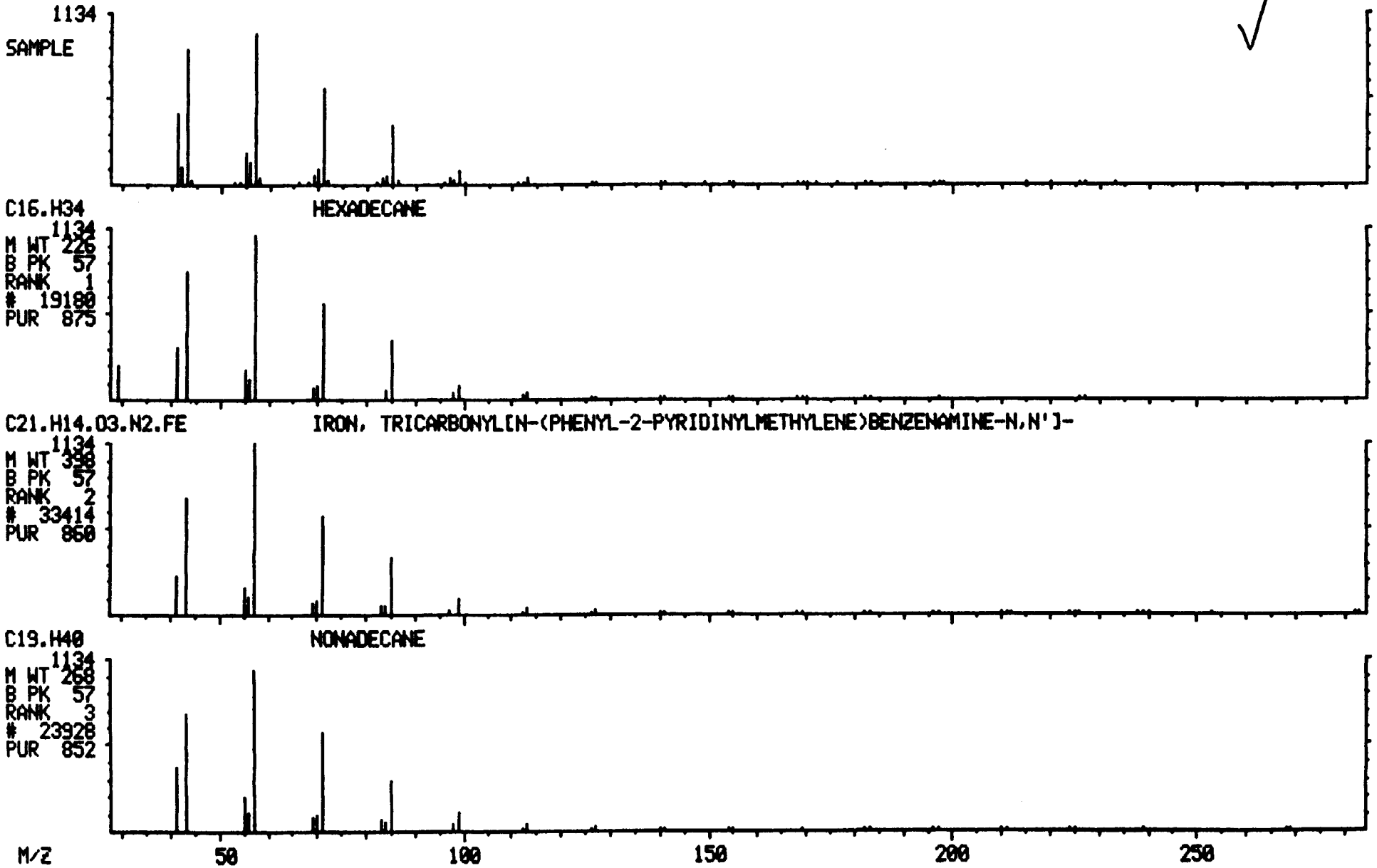



MID LIBRARY SEARCH
08/09/85 17:35:00 + 20:07
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1207
CALI: EQ325 # 2
BASE M/Z: 73
RIC: 53823.
1000
SAMPLE
C10.H20.O2.AG
DECANOIC ACID, SILVER(1+) SALT
M WT 279
B PK 73
RANK 1
24957
PUR 517
C12.H24.O2
DODECANOIC ACID
M WT 200
B PK 73
RANK 2
15410
PUR 468
C10.H20.O2
DECANOIC ACID
M WT 172
B PK 60
RANK 3
10982
PUR 442
M/Z
50
100
150
200
250
300
350

MID LIBRARY SEARCH
08/09/85 17:35:00 + 20:29
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1229
CALI: EQ325 # 2

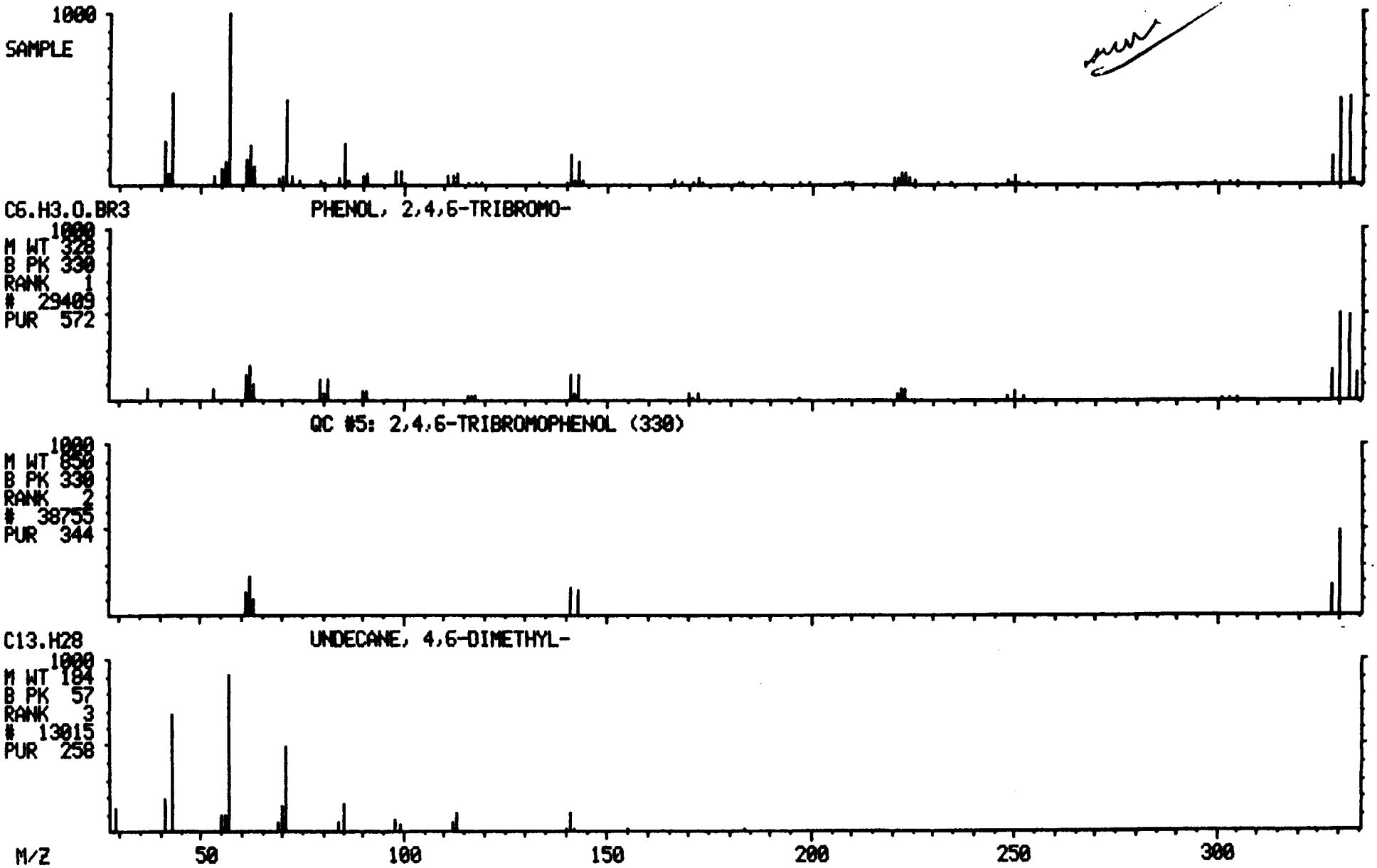
BASE M/Z: 57
RIC: 200575.



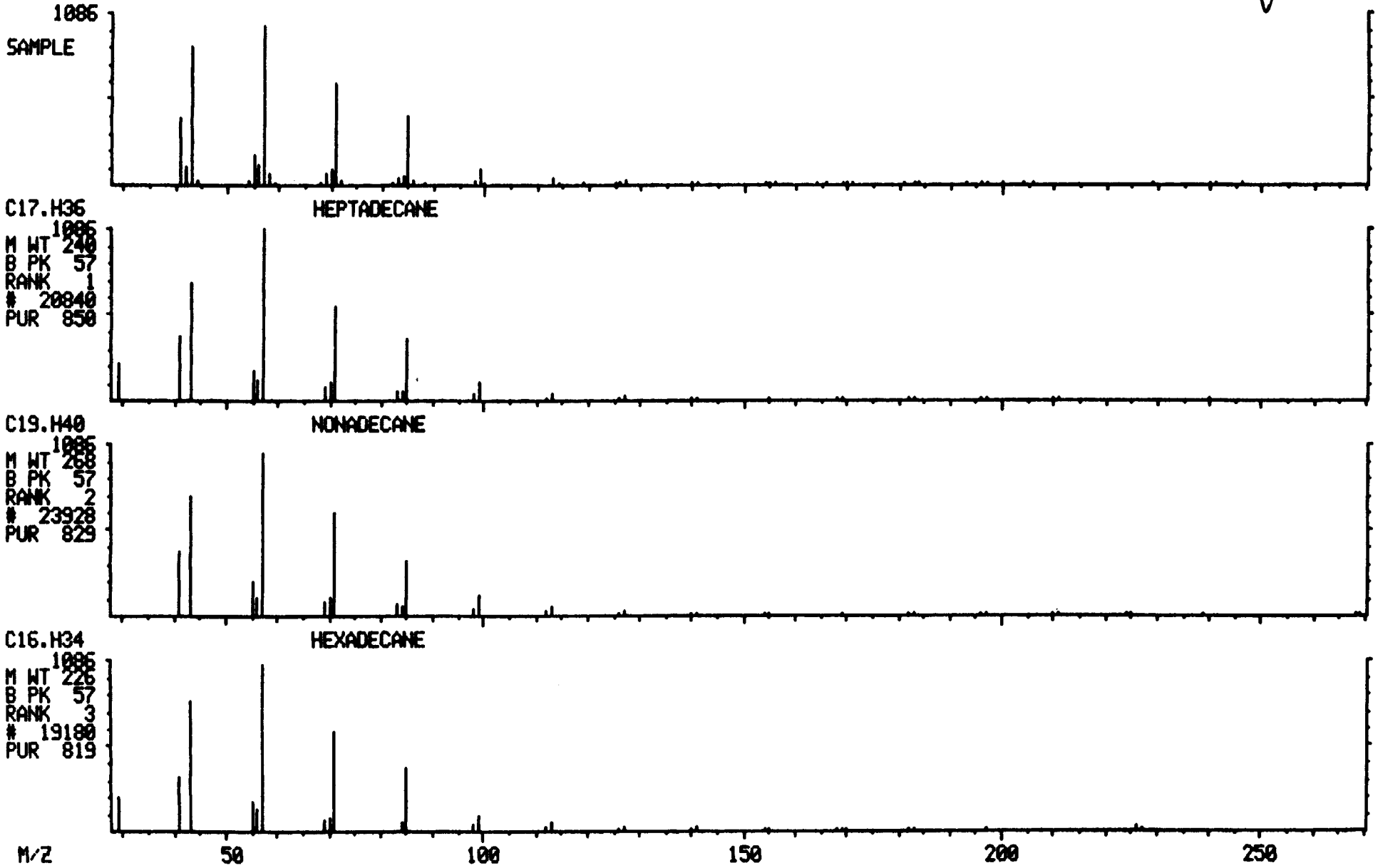
MID LIBRARY SEARCH
08/09/85 17:35:00 + 21:14
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1274
CALI: EQ325 # 2

BASE M/Z: 57
RIC: 134399.



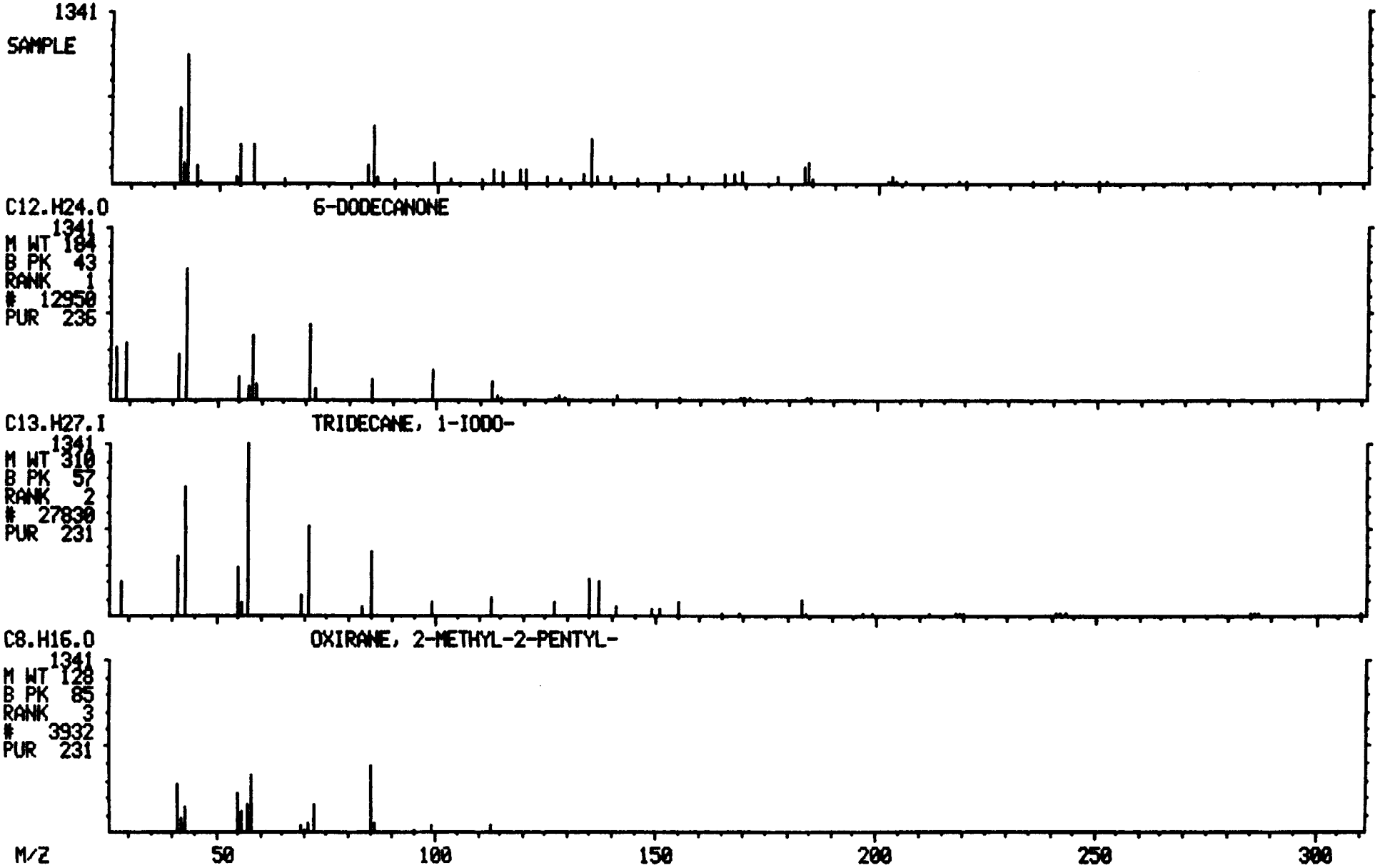
MID LIBRARY SEARCH
08/09/85 17:35:00 + 21:59
DATA: EQ325 #1319
CALI: EQ325 # 2
BASE M/Z: 57
RIC: 264191.
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

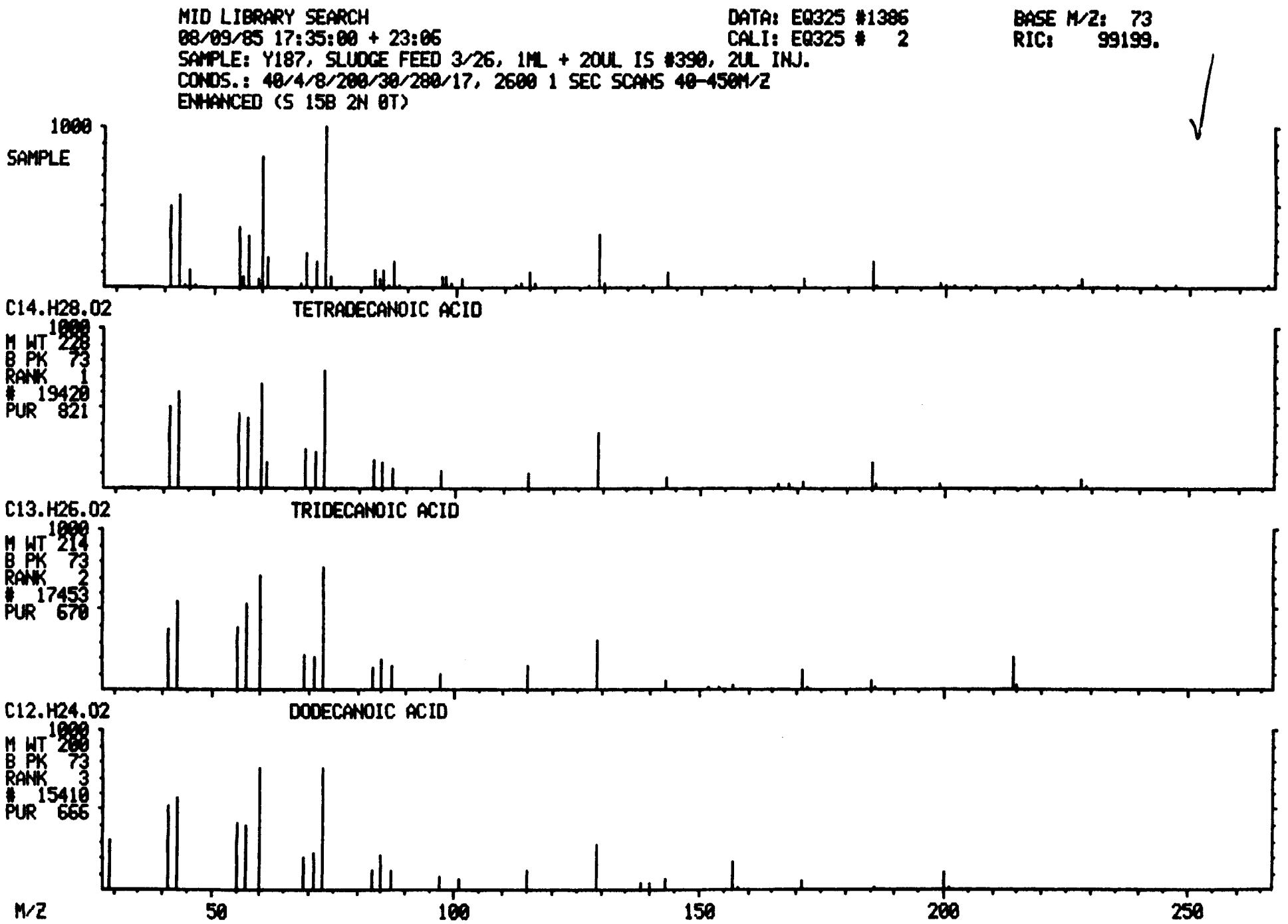


MID LIBRARY SEARCH
08/09/85 17:35:00 + 22:39
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1359
CALI: EQ325 # 2

BASE M/Z: 43
RIC: 20351.

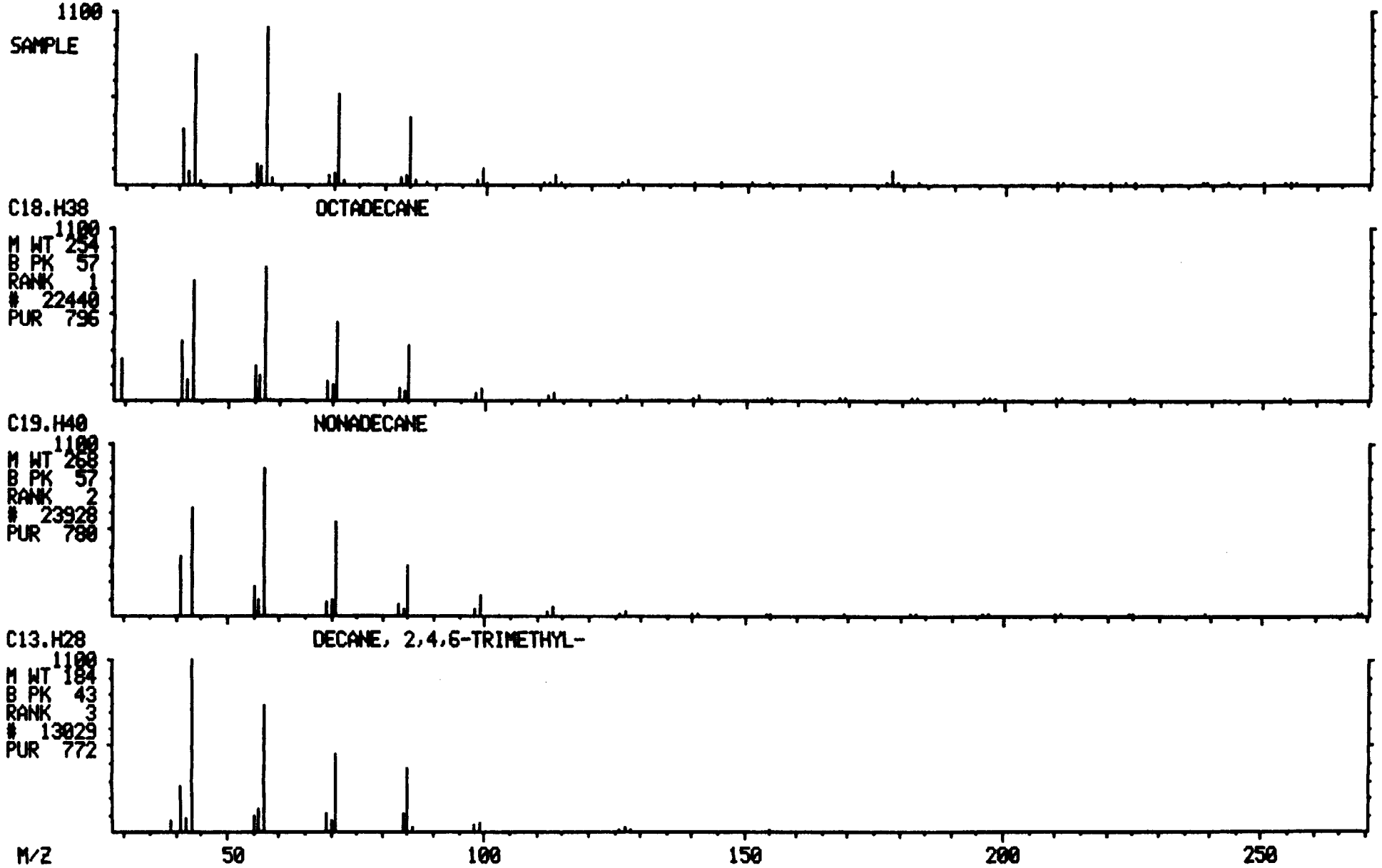



MID LIBRARY SEARCH
08/09/85 17:35:00 + 23:06
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1386
CALI: EQ325 # 2
BASE M/Z: 73
RIC: 99199.
1000
SAMPLE
C14.H28.02
TETRADECANOIC ACID
M WT 228
B PK 73
RANK 1
19420
PUR 821
C13.H26.02
TRIDECANOIC ACID
M WT 214
B PK 73
RANK 2
17453
PUR 670
C12.H24.02
DODECANOIC ACID
M WT 200
B PK 73
RANK 3
15410
PUR 666
M/Z
50
100
150
200
250

MID LIBRARY SEARCH
08/09/85 17:35:00 + 23:22
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1402
CALI: EQ325 # 2

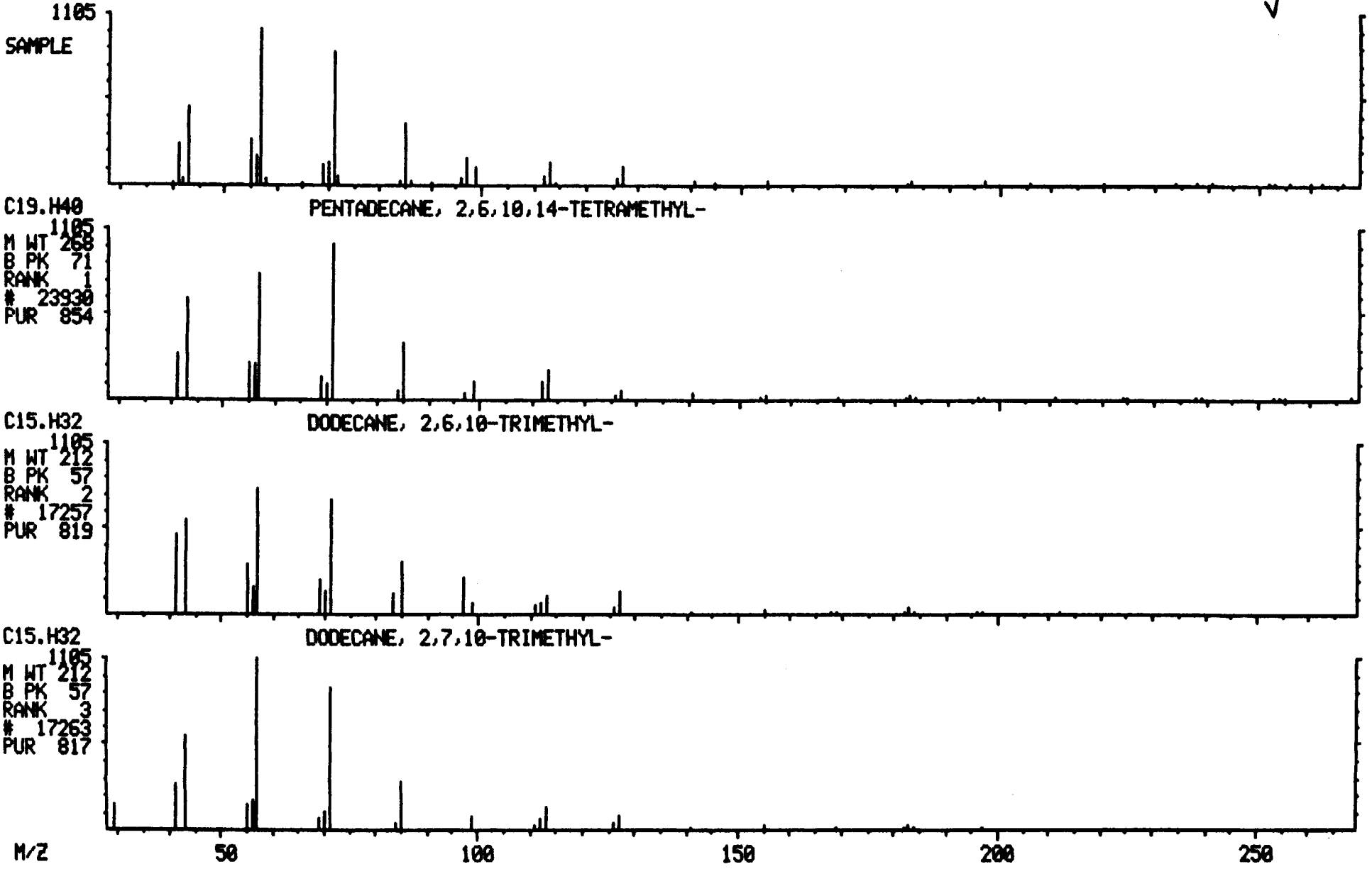
BASE M/Z: 57
RIC: 144639.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 23:31
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1411
CALI: EQ325 # 2

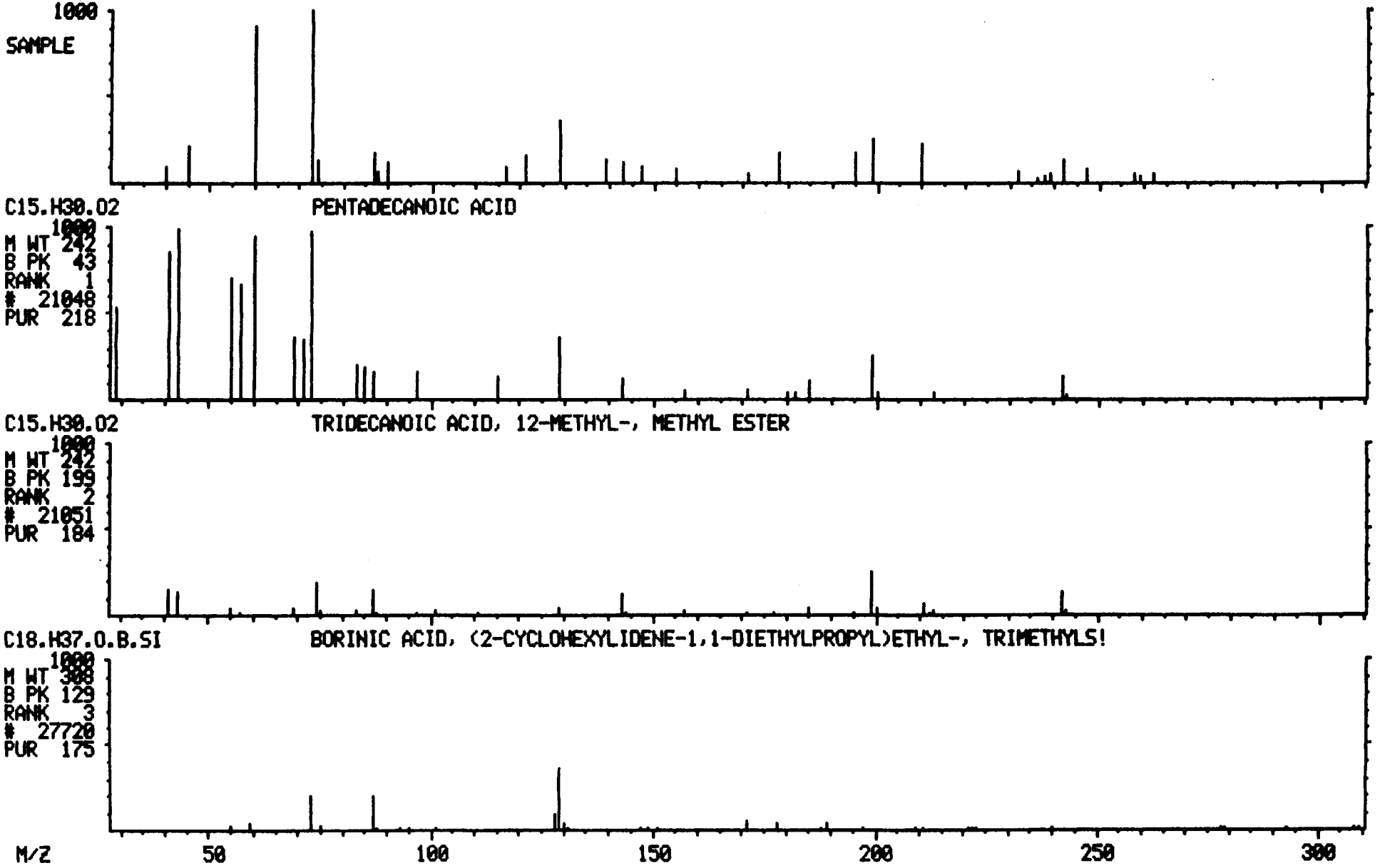
BASE M/Z: 57
RIC: 87295.

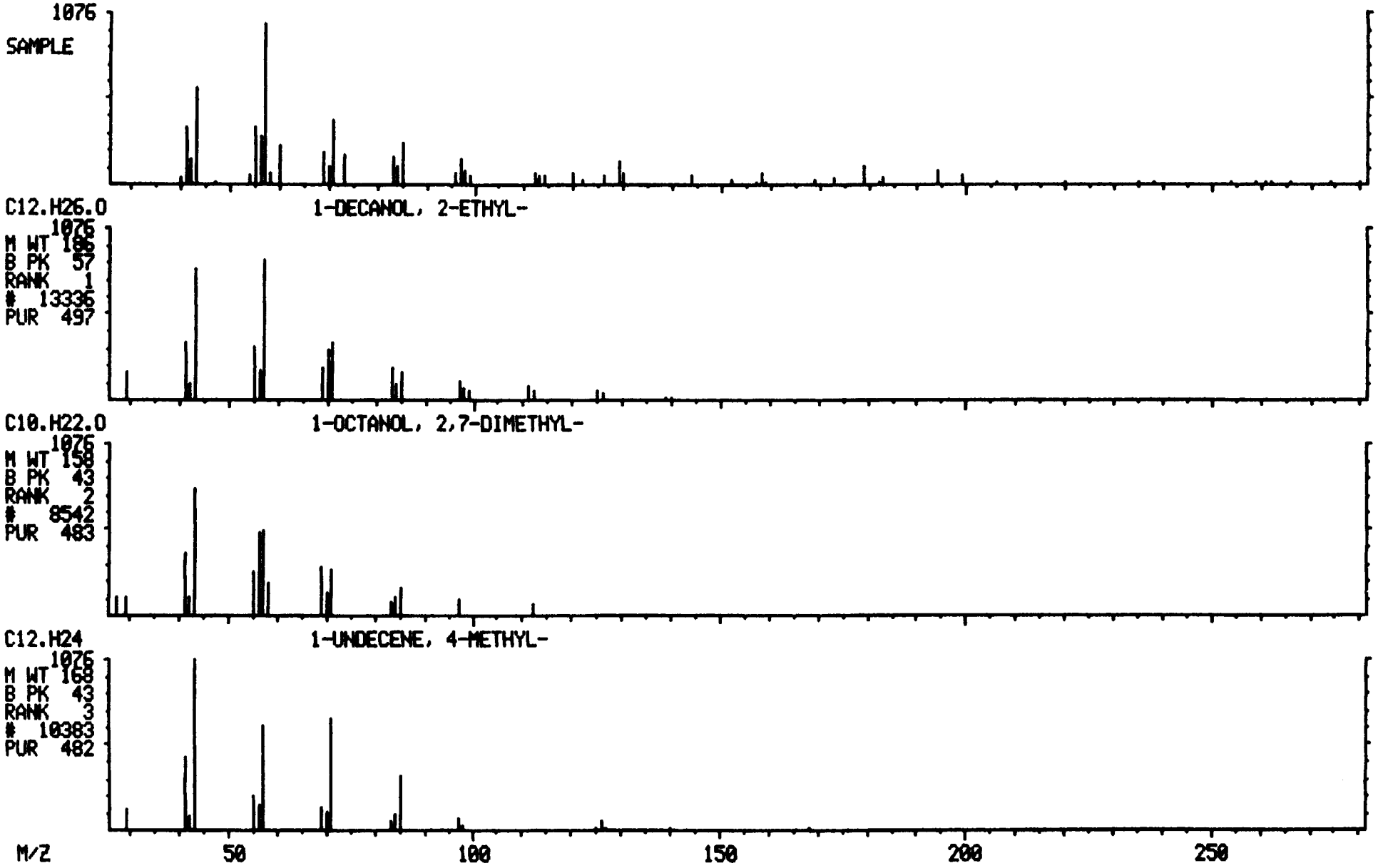


MID LIBRARY SEARCH
08/09/85 17:35:00 + 23:53
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1433
CALI: EQ325 # 2

BASE M/Z: 73
RIC: 7495.

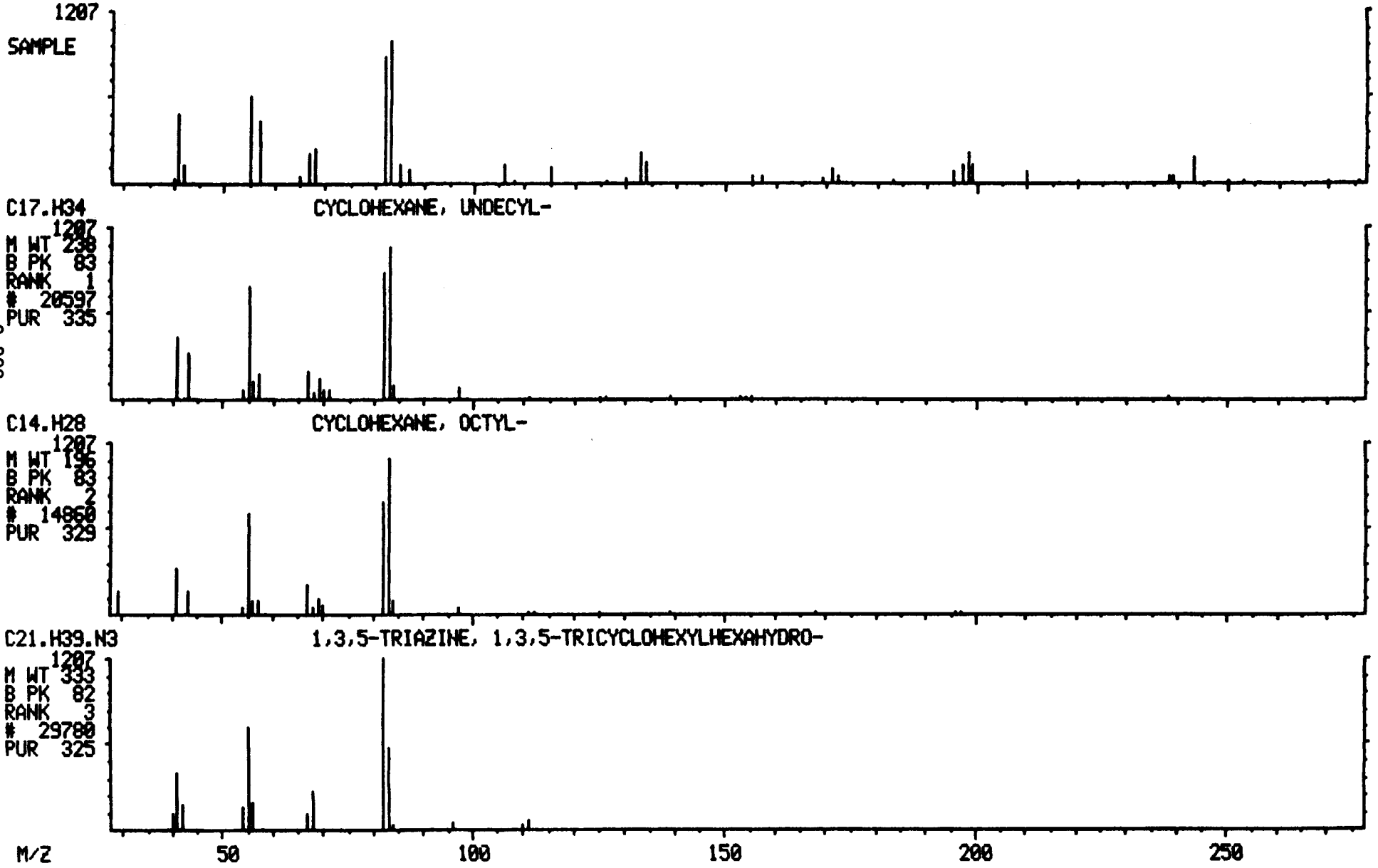



MID LIBRARY SEARCH
08/09/85 17:35:00 + 24:01
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1441
CALI: EQ325 # 2
BASE M/Z: 57
RIC: 33983.
1076
SAMPLE
C12.H26.O
1-DECANOL, 2-ETHYL-
M WT 186
B PK 57
RANK 1
13336
PUR 497
C10.H22.O
1-OCTANOL, 2,7-DIMETHYL-
M WT 158
B PK 43
RANK 2
8542
PUR 483
C12.H24
1-UNDECENE, 4-METHYL-
M WT 168
B PK 43
RANK 3
10383
PUR 482
M/Z
50
100
150
200
250

MID LIBRARY SEARCH
08/09/85 17:35:00 + 24:15
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1455
CALI: EQ325 # 2

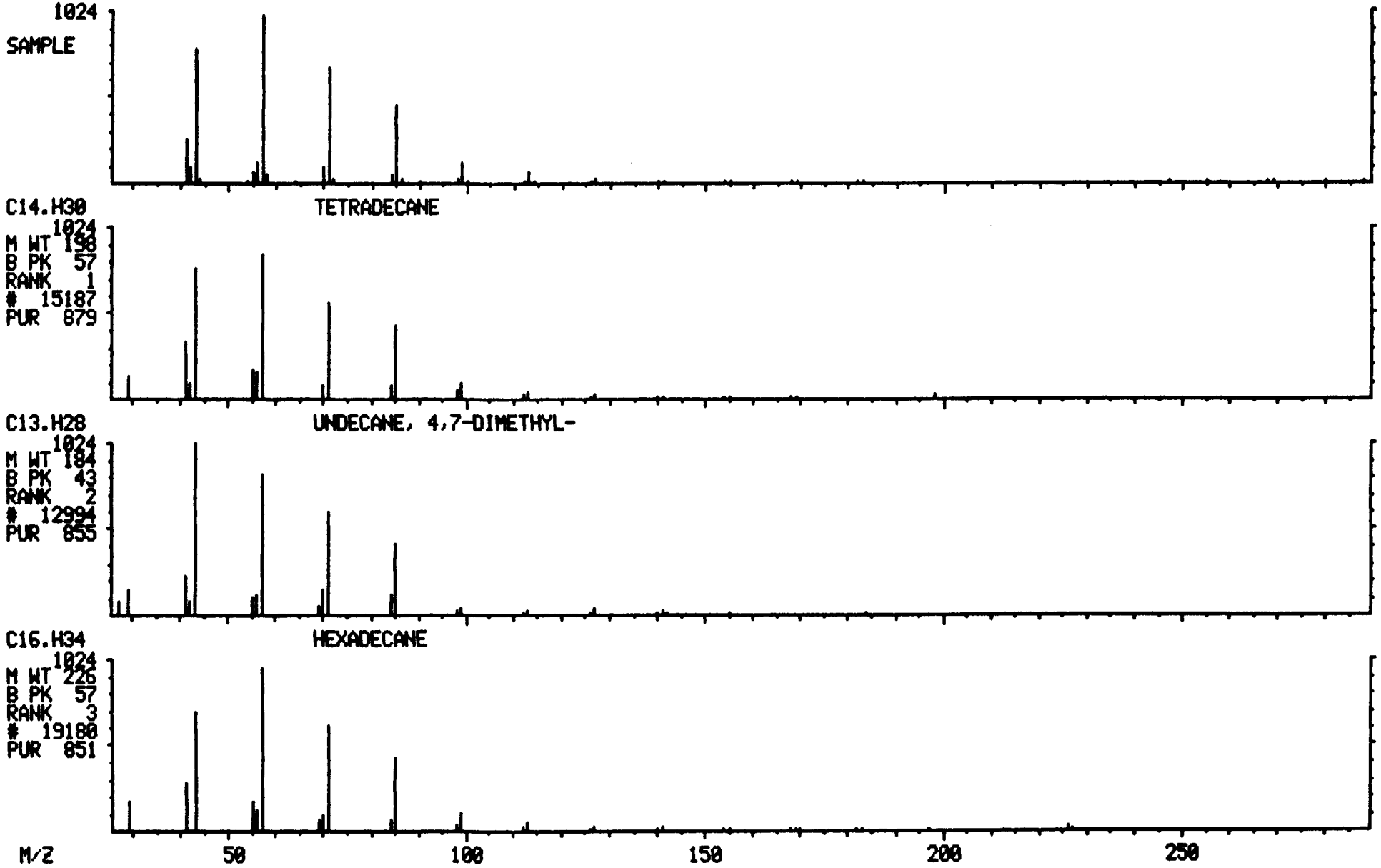
BASE M/Z: 83
RIC: 26431.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 24:33
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1473
CALI: EQ325 # 2

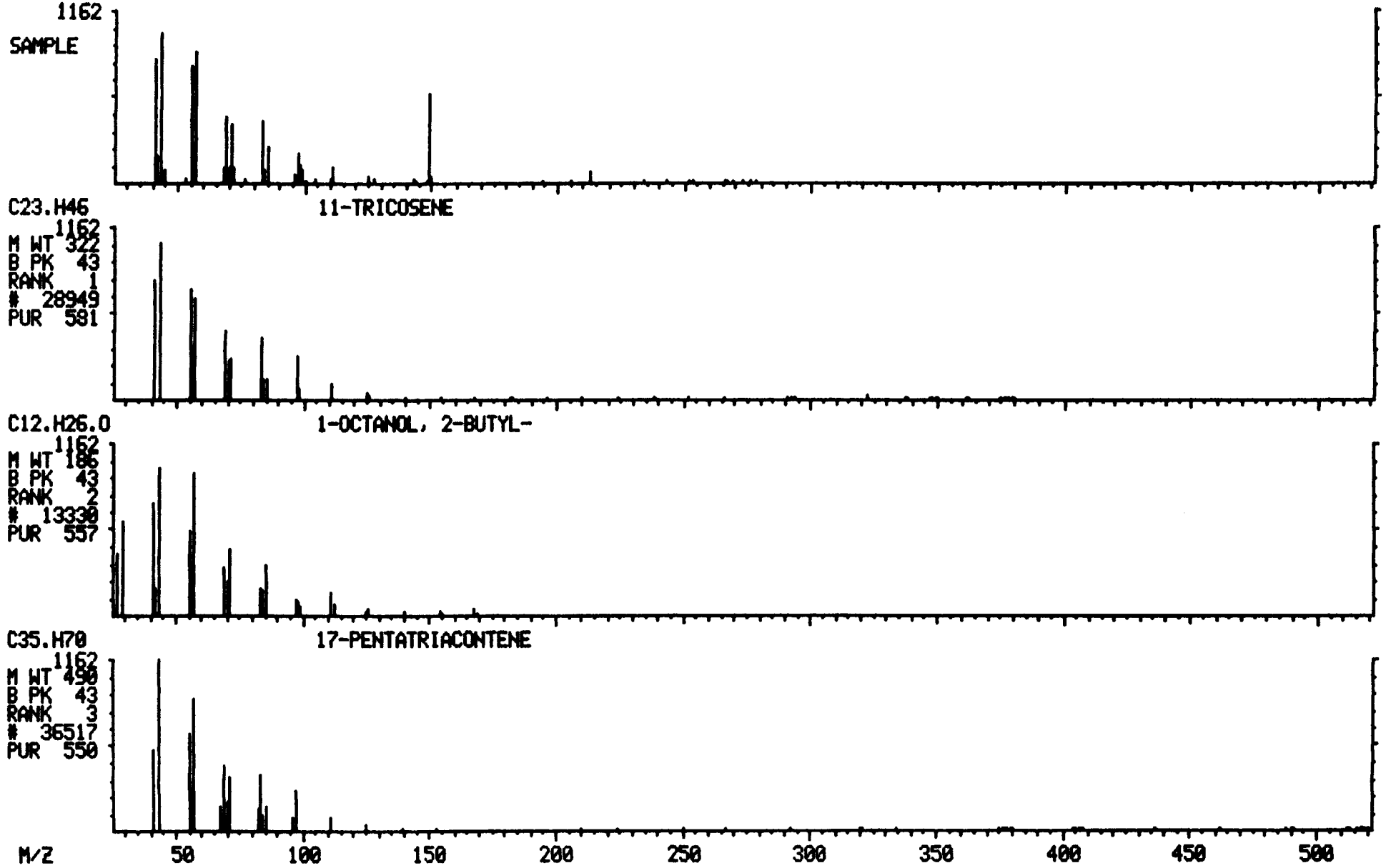
BASE M/Z: 57
RIC: 211967.

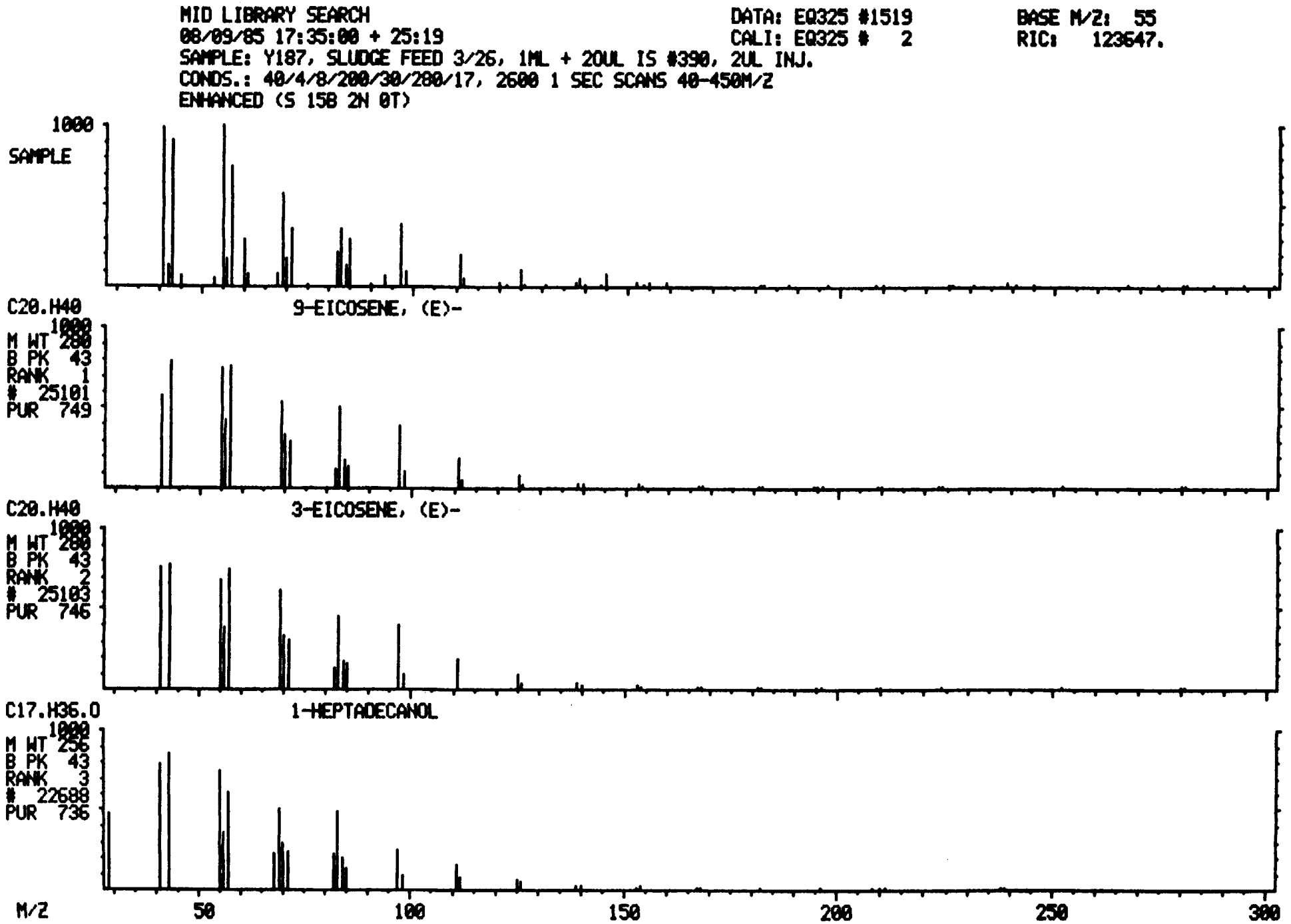


MID LIBRARY SEARCH
08/09/85 17:35:00 + 25:03
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1503
CALI: EQ325 # 2

BASE M/Z: 43
RIC: 101375.

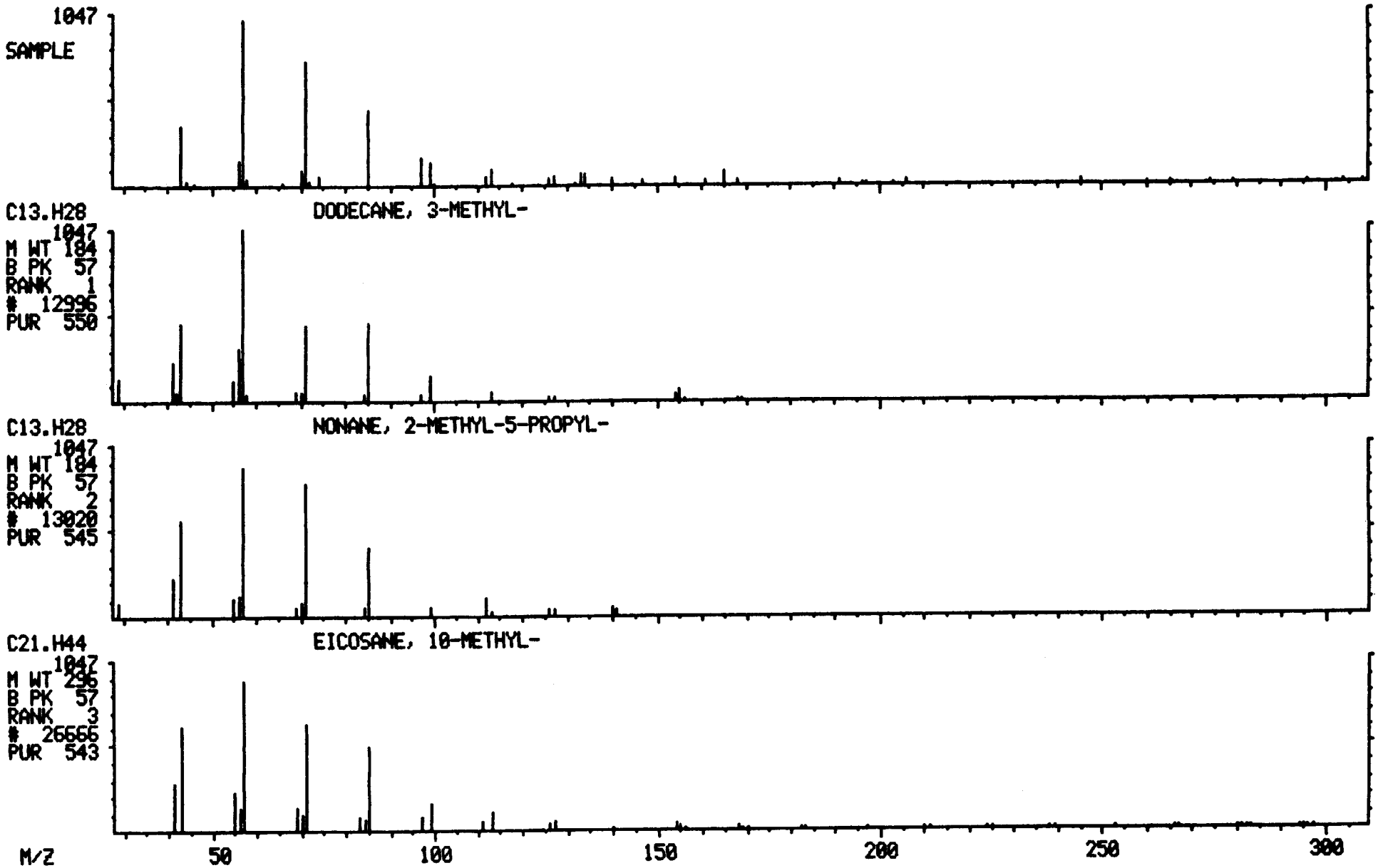



MID LIBRARY SEARCH
08/09/85 17:35:00 + 25:19
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1519
CALI: EQ325 # 2
BASE M/Z: 55
RIC: 123647.
1000
SAMPLE
C20.H40
9-EICOSENE, (E)-
M WT 280
B PK 43
RANK 1
25101
PUR 749
C20.H40
3-EICOSENE, (E)-
M WT 280
B PK 43
RANK 2
25103
PUR 746
C17.H36.O
1-HEPTADECANOL
M WT 256
B PK 43
RANK 3
22688
PUR 736
M/Z
50
100
150
200
250
300

MID LIBRARY SEARCH
08/09/85 17:35:00 + 25:29
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1529
CALI: EQ325 # 2

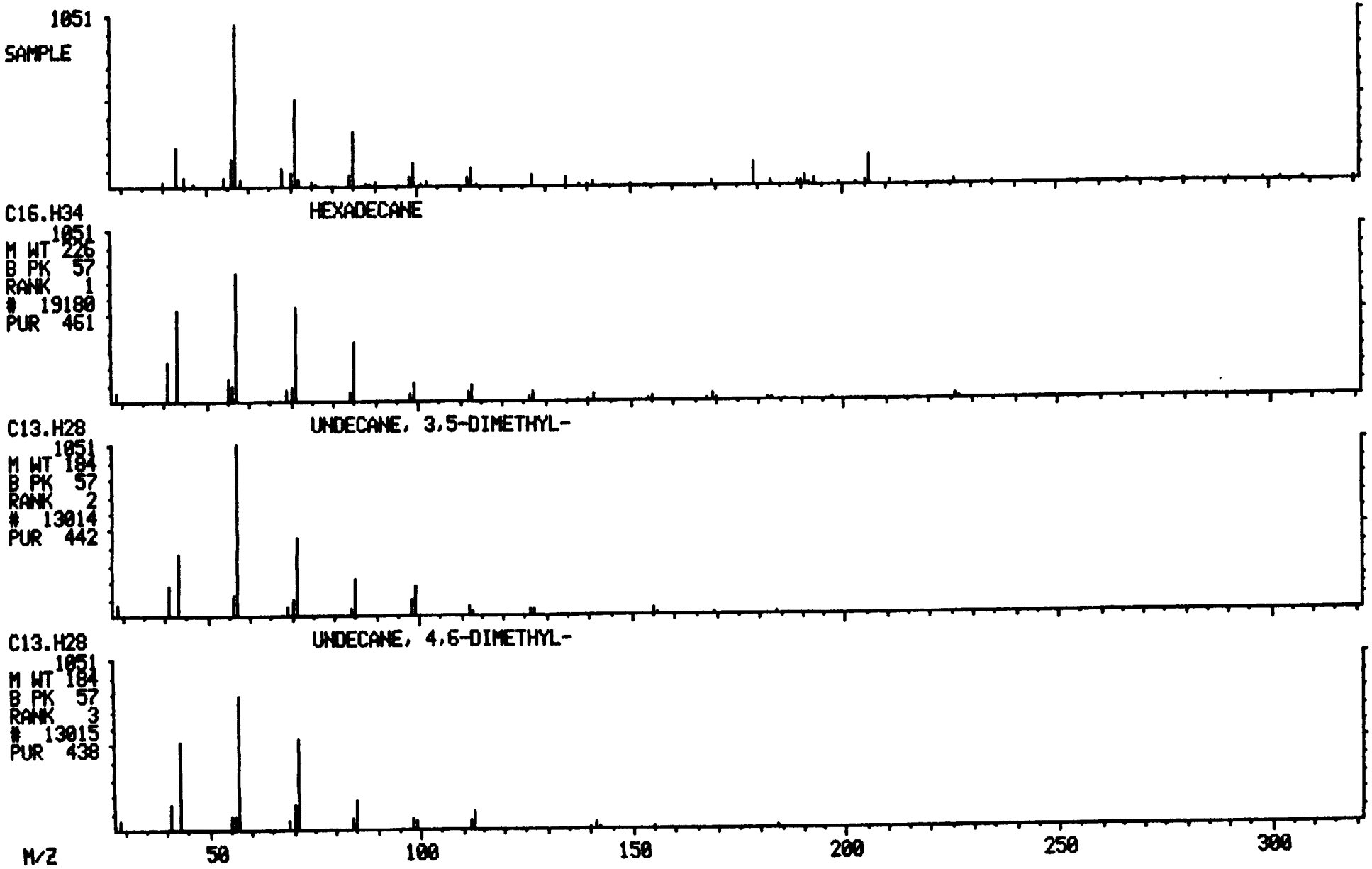
BASE M/Z: 57
RIC: 40703.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 25:41
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1541
CALI: EQ325 # 2

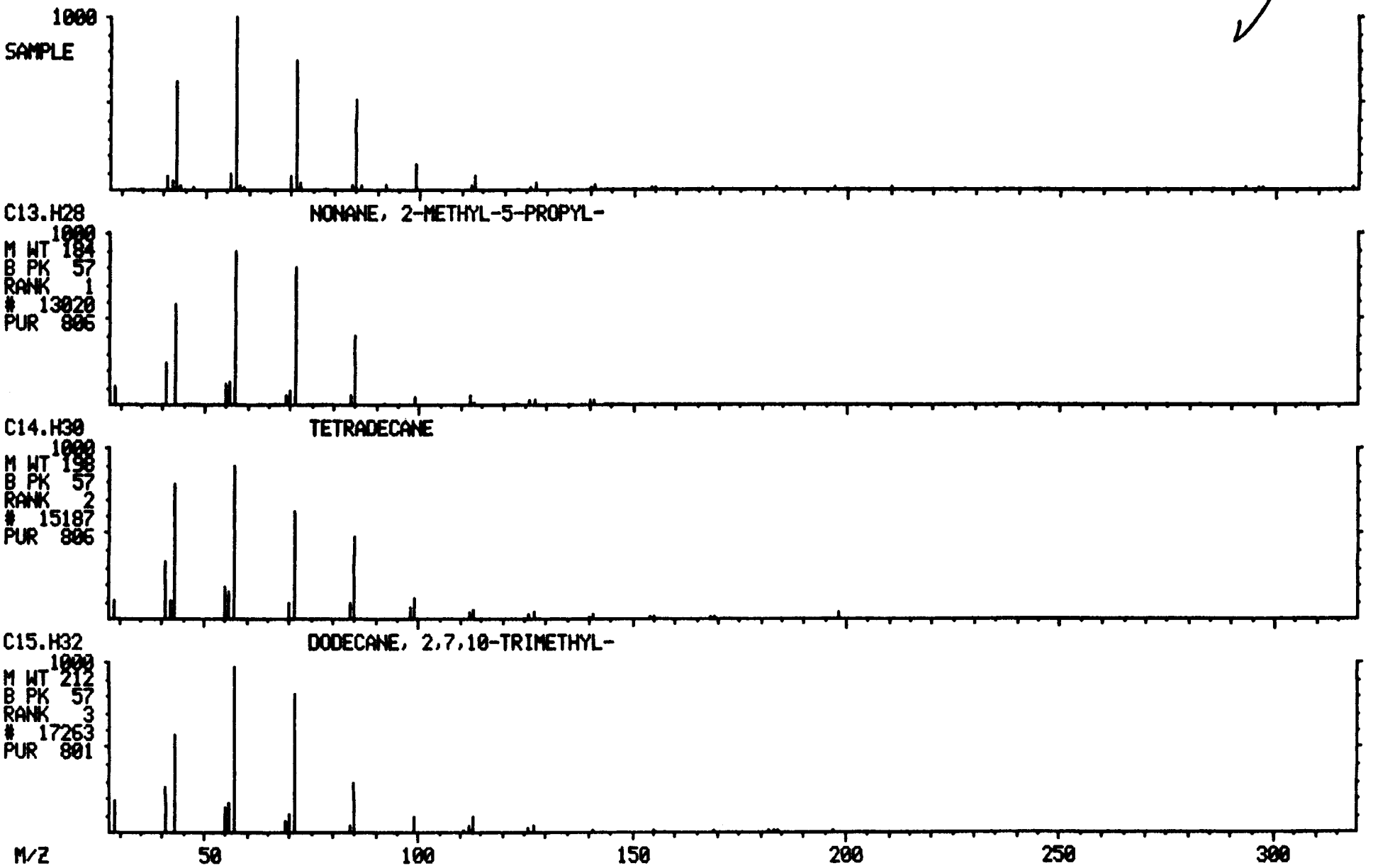
BASE M/Z: 57
RIC: 50943.

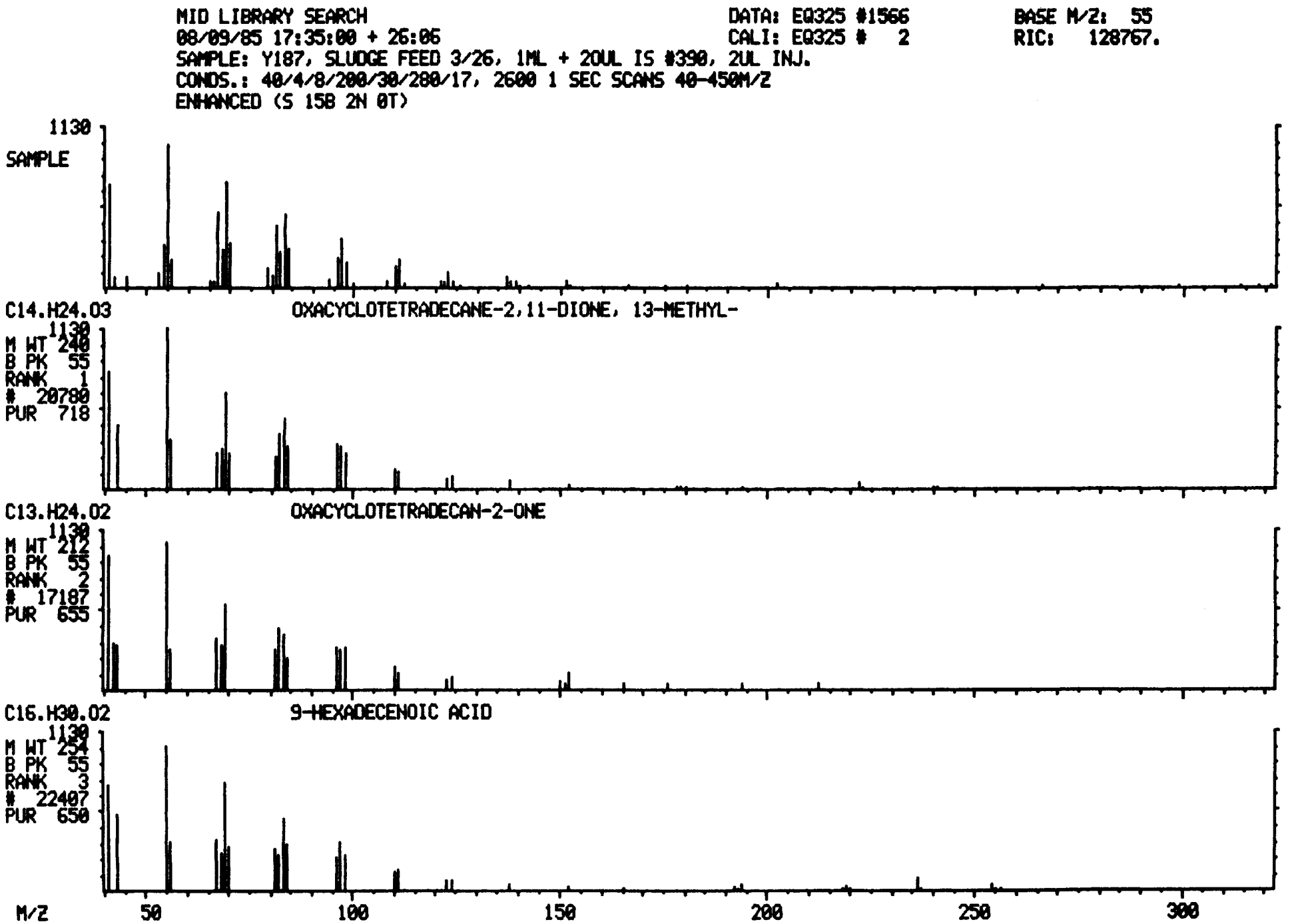


MID LIBRARY SEARCH
08/09/85 17:35:00 + 25:49
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1549
CALI: EQ325 # 2

BASE M/Z: 57
RIC: 99711.

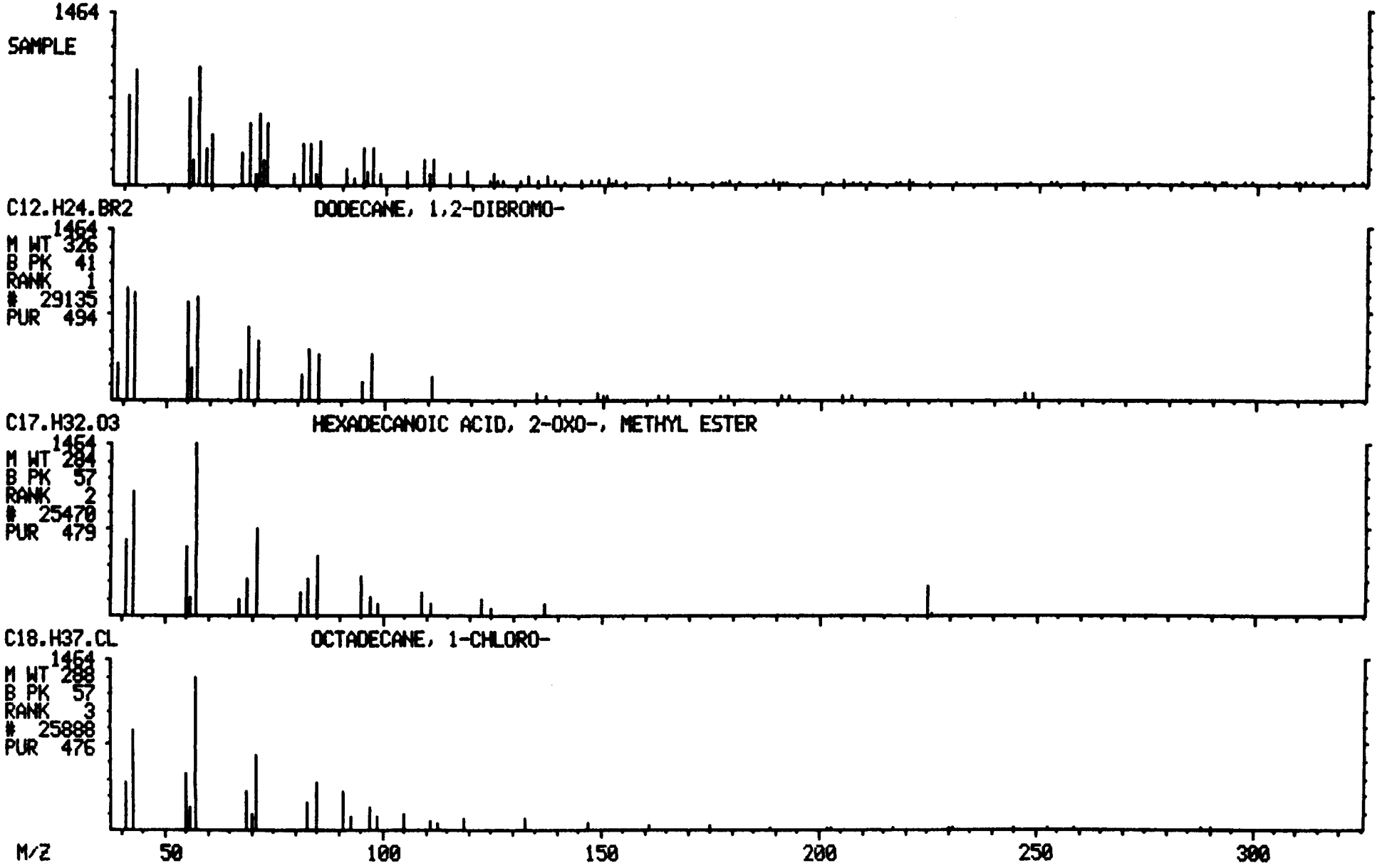



MID LIBRARY SEARCH
08/09/85 17:35:00 + 26:06
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1566
CALI: EQ325 # 2
BASE M/Z: 55
RIC: 128767.
1130
SAMPLE
C14.H24.03
OXACYCLOTETRADECANE-2,11-DIONE, 13-METHYL-
M WT 240
B PK 55
RANK 1
20780
PUR 718
C13.H24.02
OXACYCLOTETRADECAN-2-ONE
M WT 212
B PK 55
RANK 2
17187
PUR 655
C16.H30.02
9-HEXADECENOIC ACID
M WT 254
B PK 55
RANK 3
22407
PUR 650
M/Z
50
100
150
200
250
300

MID LIBRARY SEARCH
08/09/85 17:35:00 + 26:20
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1580
CALI: EQ325 # 2

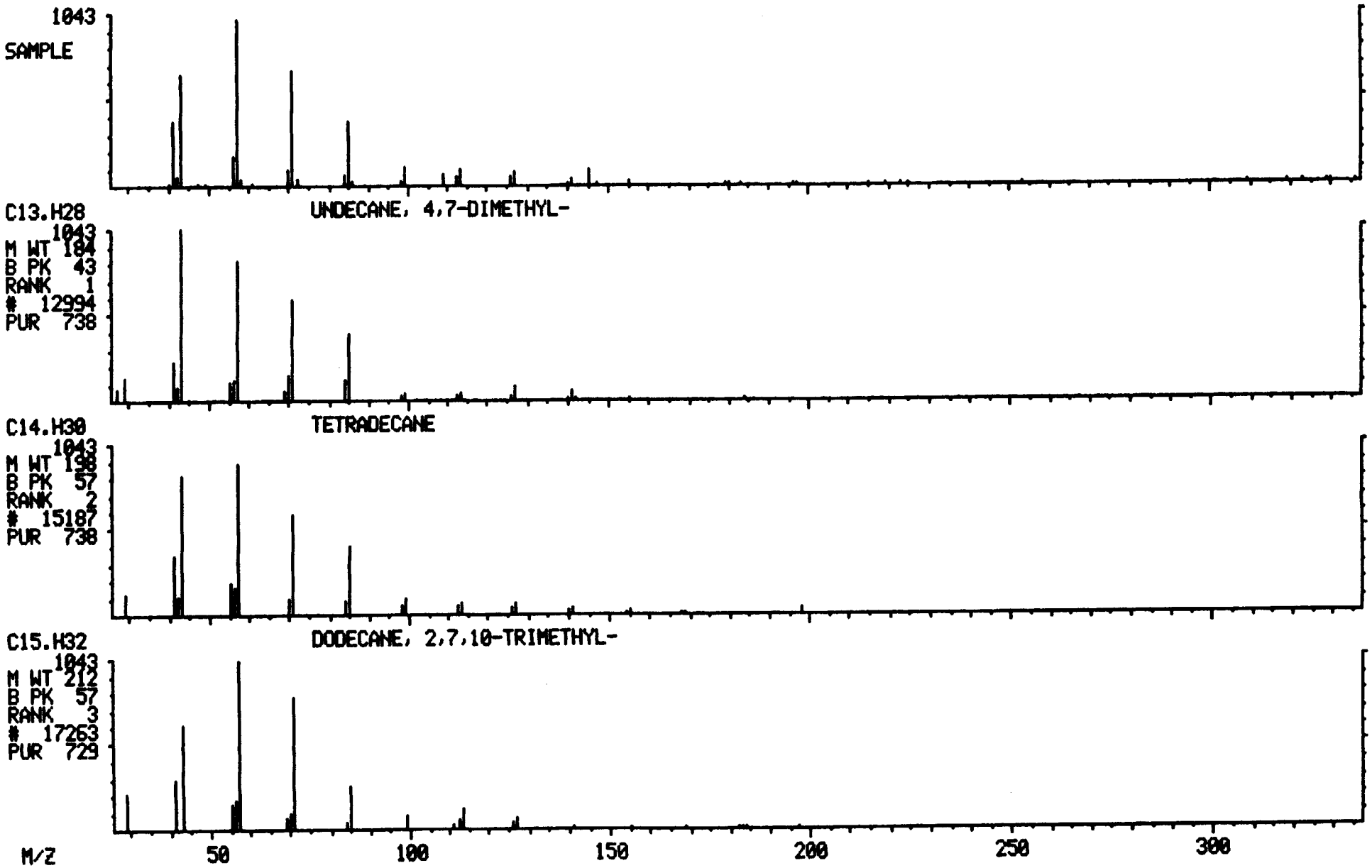
BASE M/Z: 57
RIC: 242431.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 26:30
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1590
CALI: EQ325 # 2

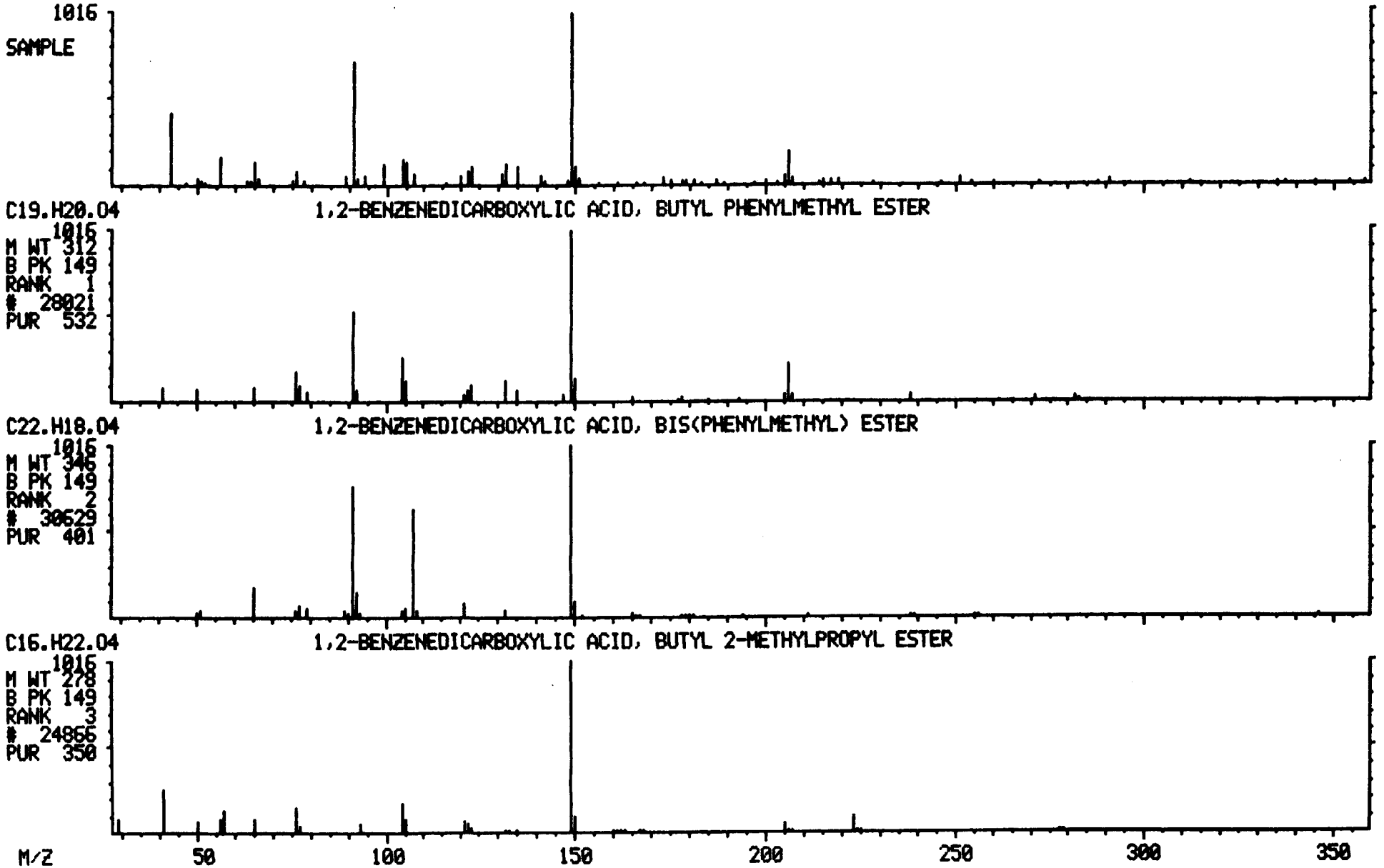
BASE M/Z: 57
RIC: 100223.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 27:06
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1626
CALI: EQ325 # 2

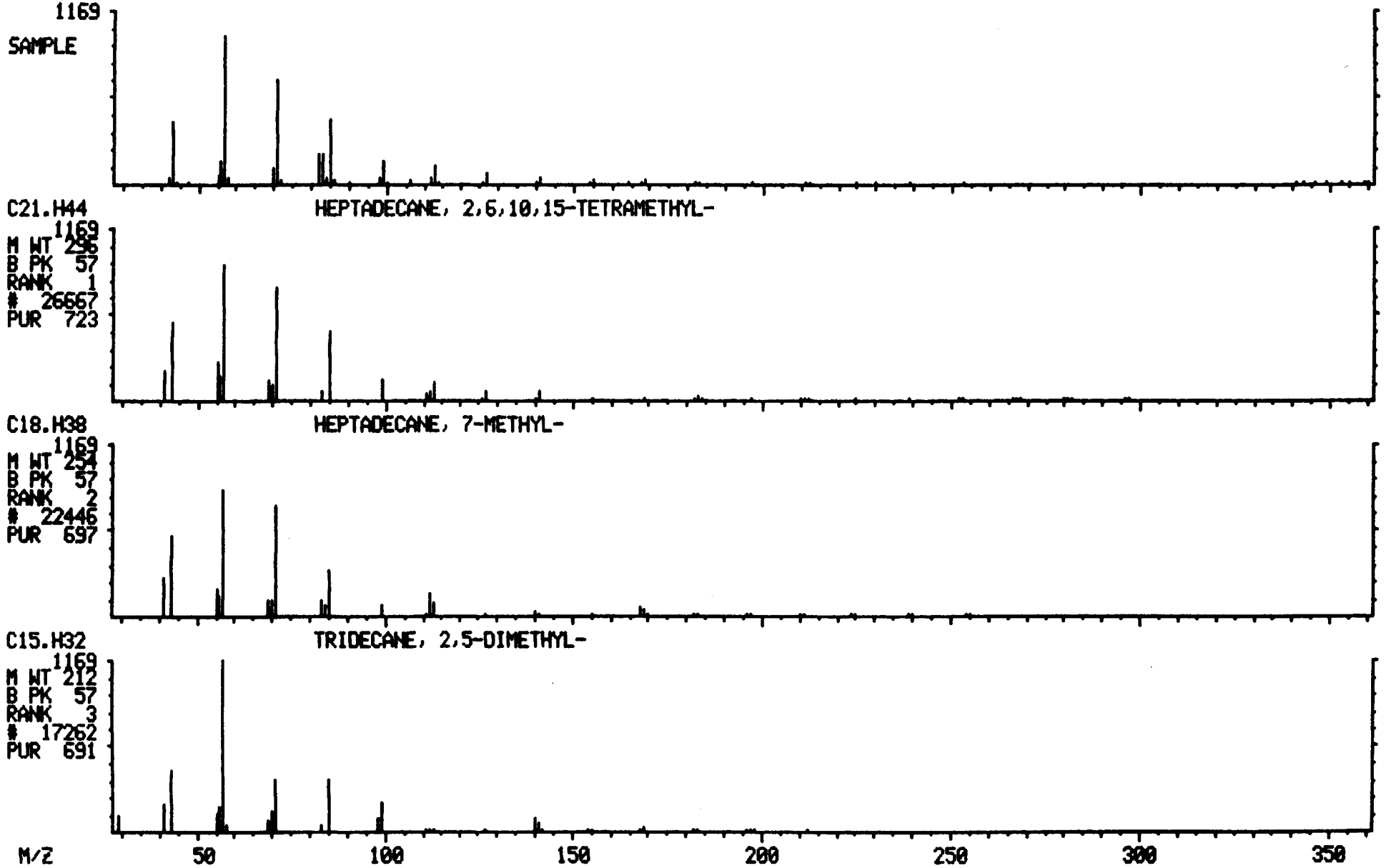
BASE M/Z: 149
RIC: 48703.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 27:45
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1665
CALI: EQ325 # 2

BASE M/Z: 57
RIC: 100415.

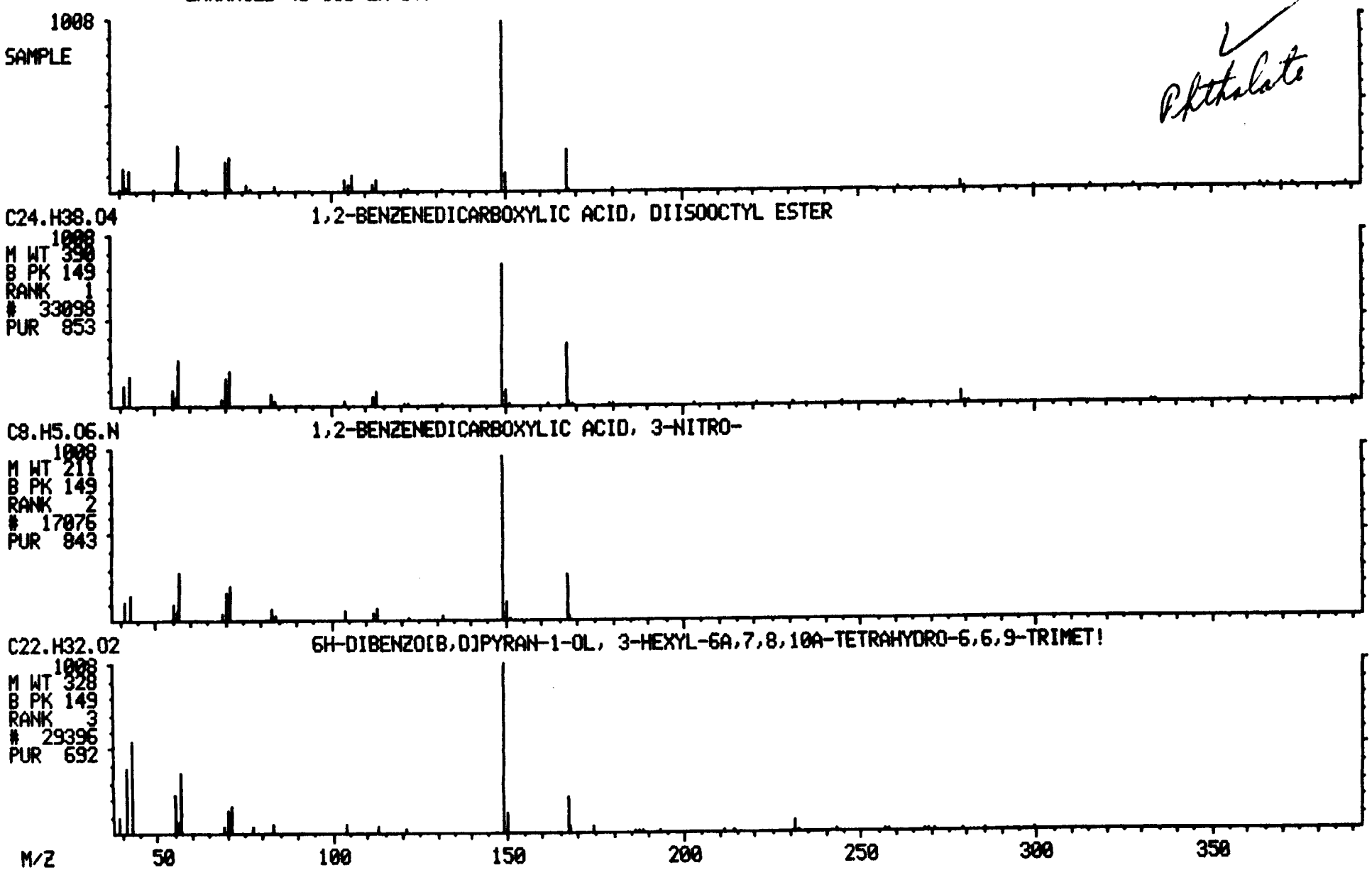


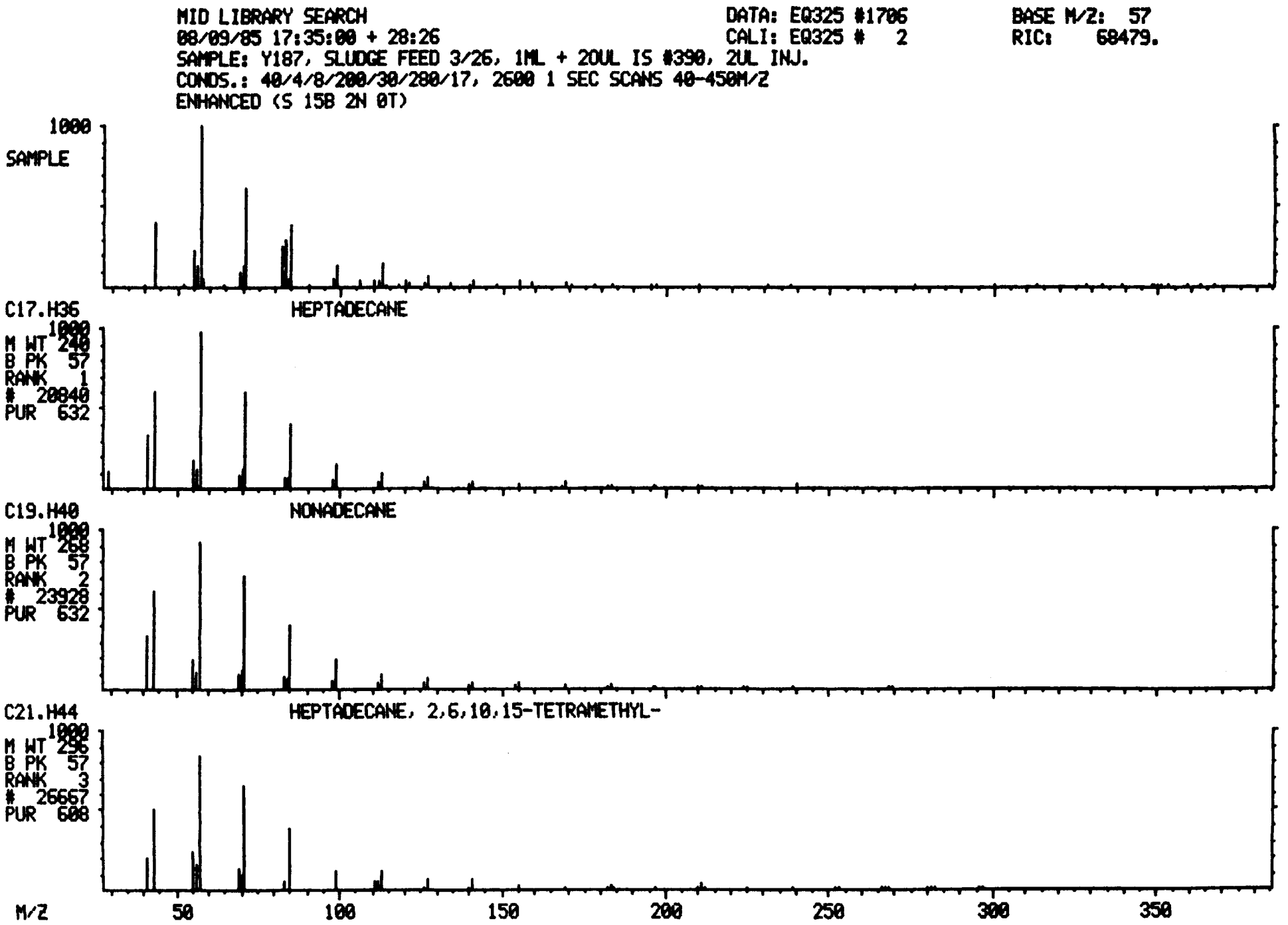
MID LIBRARY SEARCH
08/09/85 17:35:00 + 28:10
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1690
CALI: EQ325 # 2

BASE M/Z: 149
RIC: 167167.

1+5 L
Phthalate

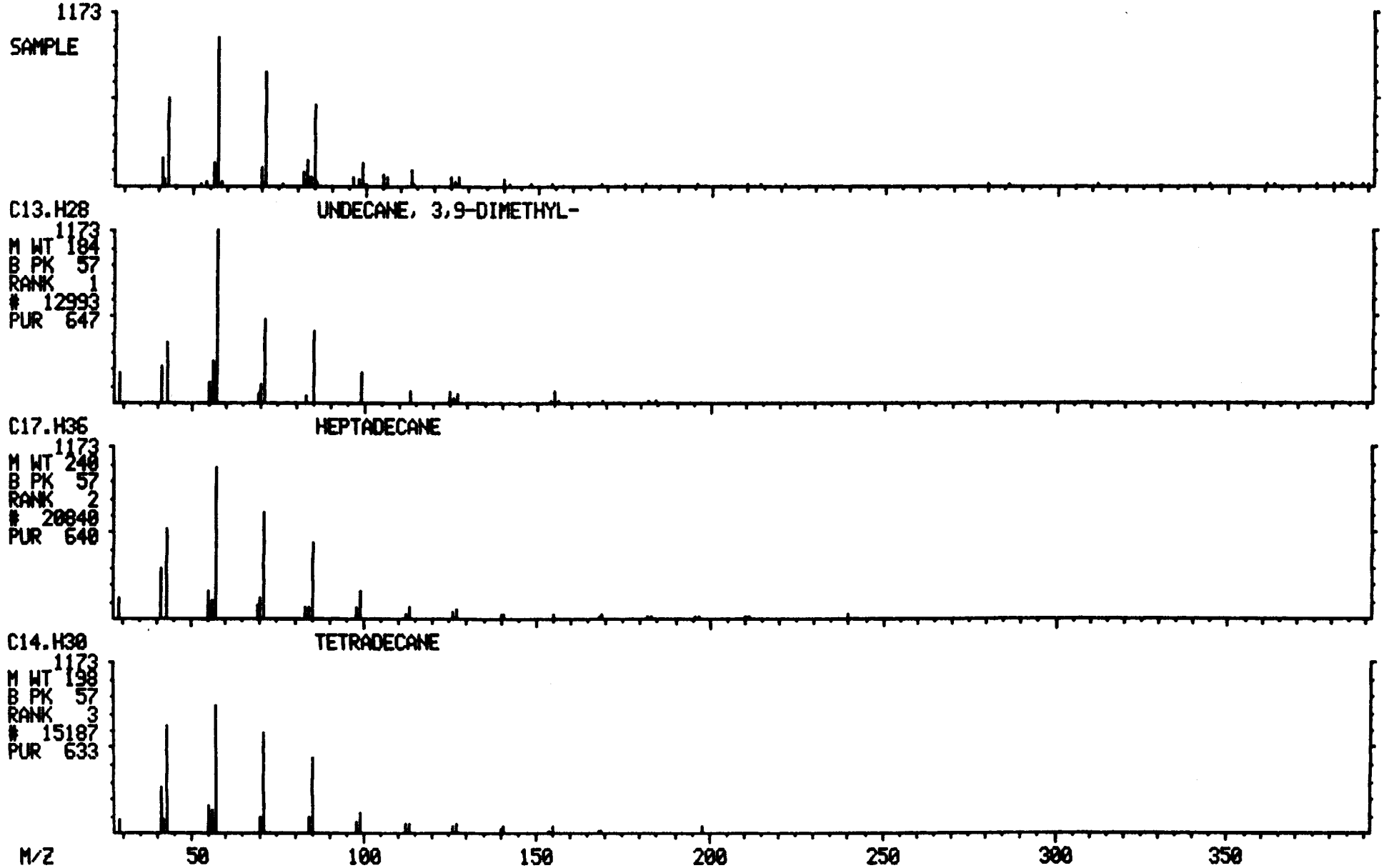



MID LIBRARY SEARCH
08/09/85 17:35:00 + 28:26
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #1706
CALI: EQ325 # 2
BASE M/Z: 57
RIC: 68479.
1000
SAMPLE
C17.H36
HEPTADECANE
M WT 240
B PK 57
RANK 1
20840
PUR 632
C19.H40
NONADECANE
M WT 268
B PK 57
RANK 2
23928
PUR 632
C21.H44
HEPTADECANE, 2,6,10,15-TETRAMETHYL-
M WT 296
B PK 57
RANK 3
26667
PUR 608
M/Z
50
100
150
200
250
300
350

MID LIBRARY SEARCH
08/09/85 17:35:00 + 28:40
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1720
CALI: EQ325 # 2

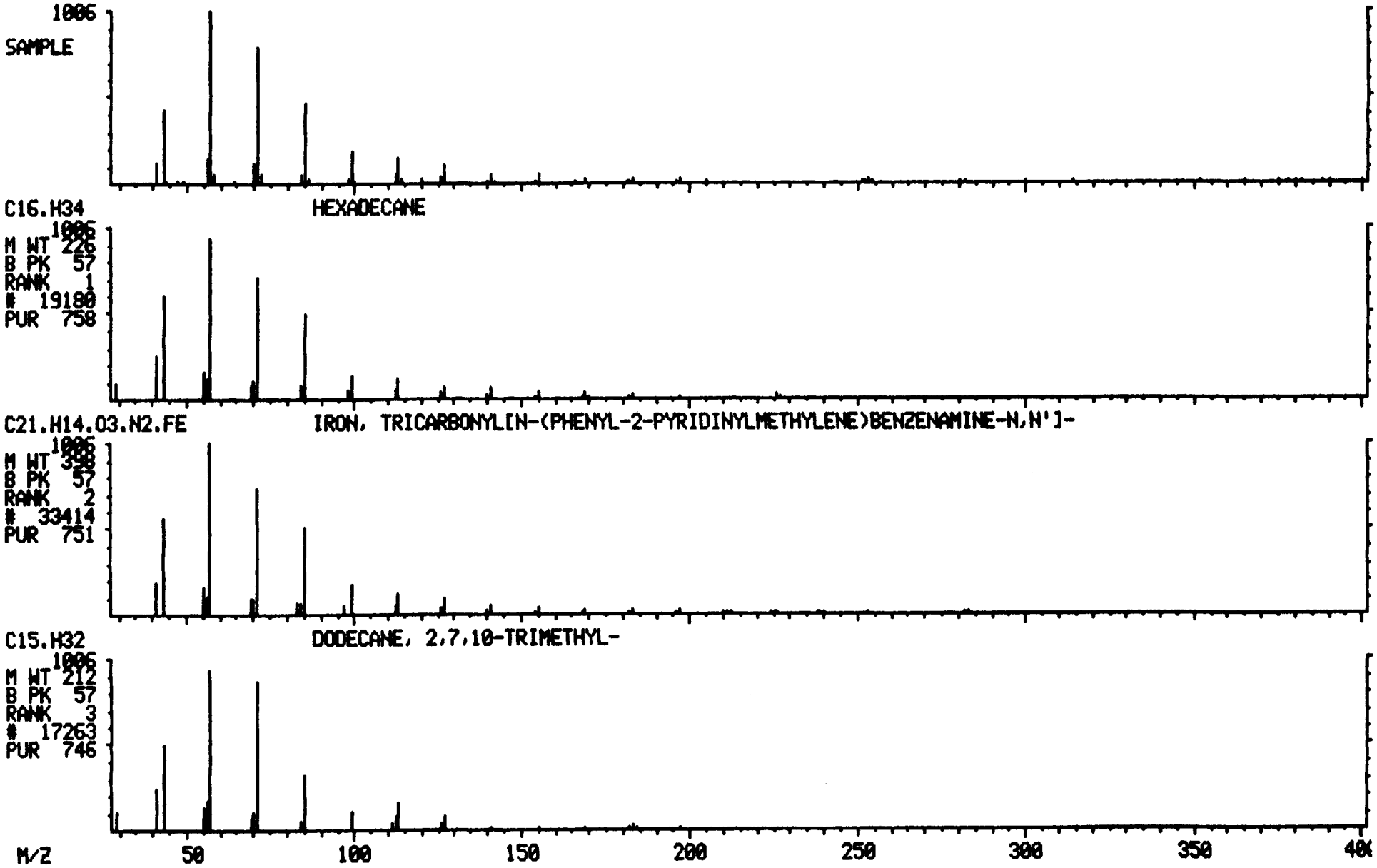
BASE M/Z: 57
RIC: 71551.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 28:52
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1732
CALI: EQ325 # 2

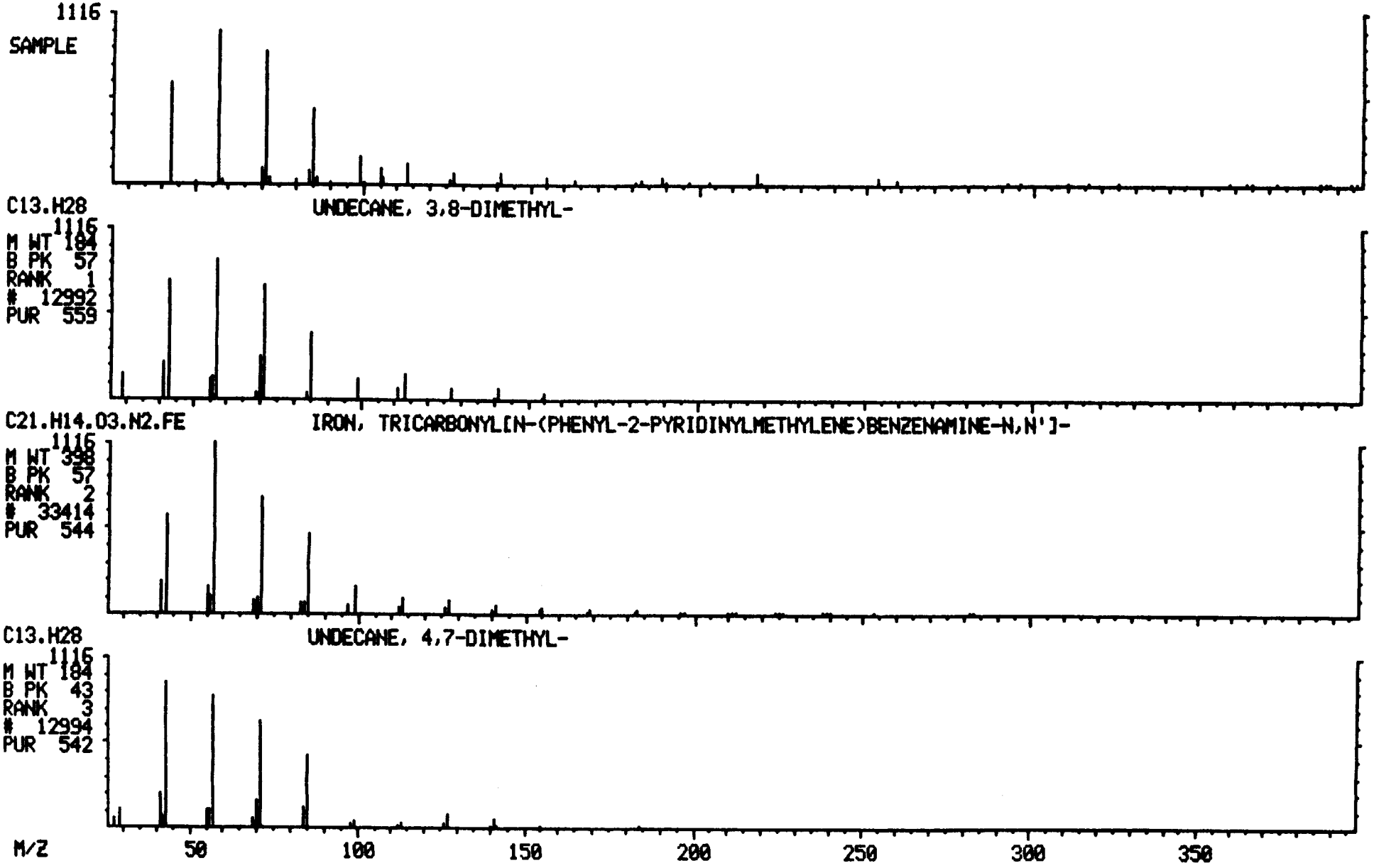
BASE M/Z: 57
RIC: 78463.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 29:33
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1773
CALI: EQ325 # 2

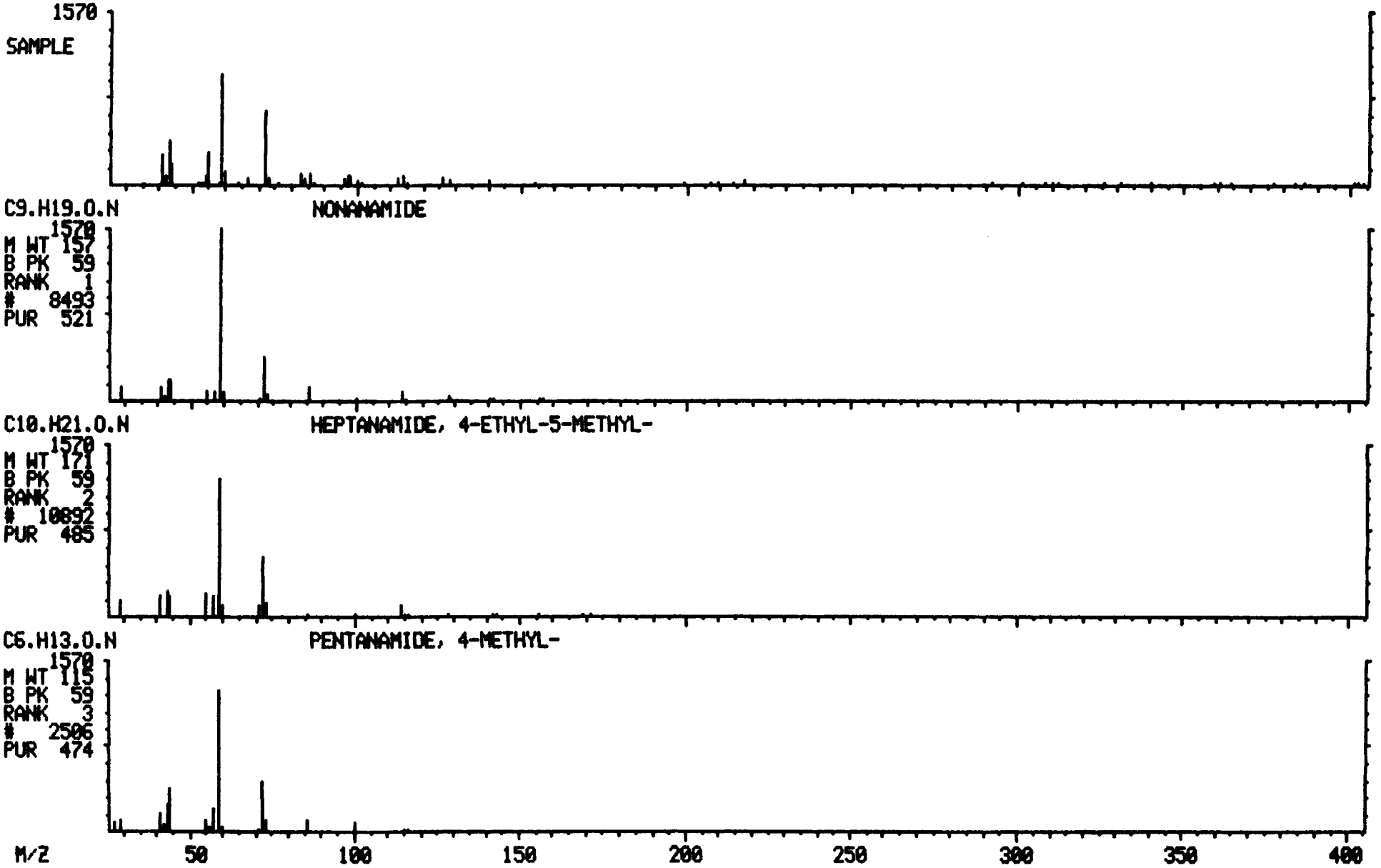
BASE M/Z: 57
RIC: 46719.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 30:07
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1807
CALI: EQ325 # 2

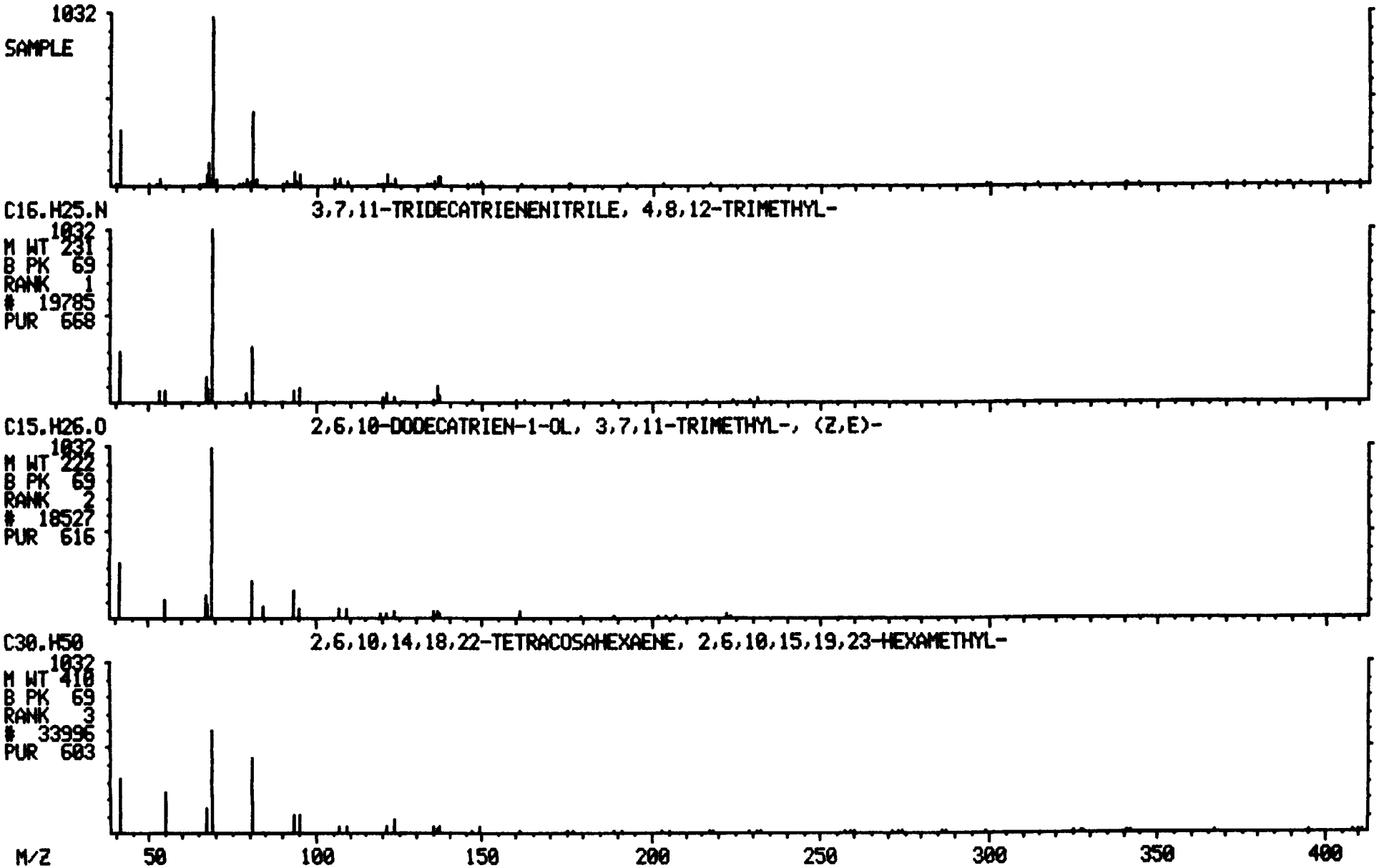
BASE M/Z: 59
RIC: 45055.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 30:37
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1837
CALI: EQ325 # 2

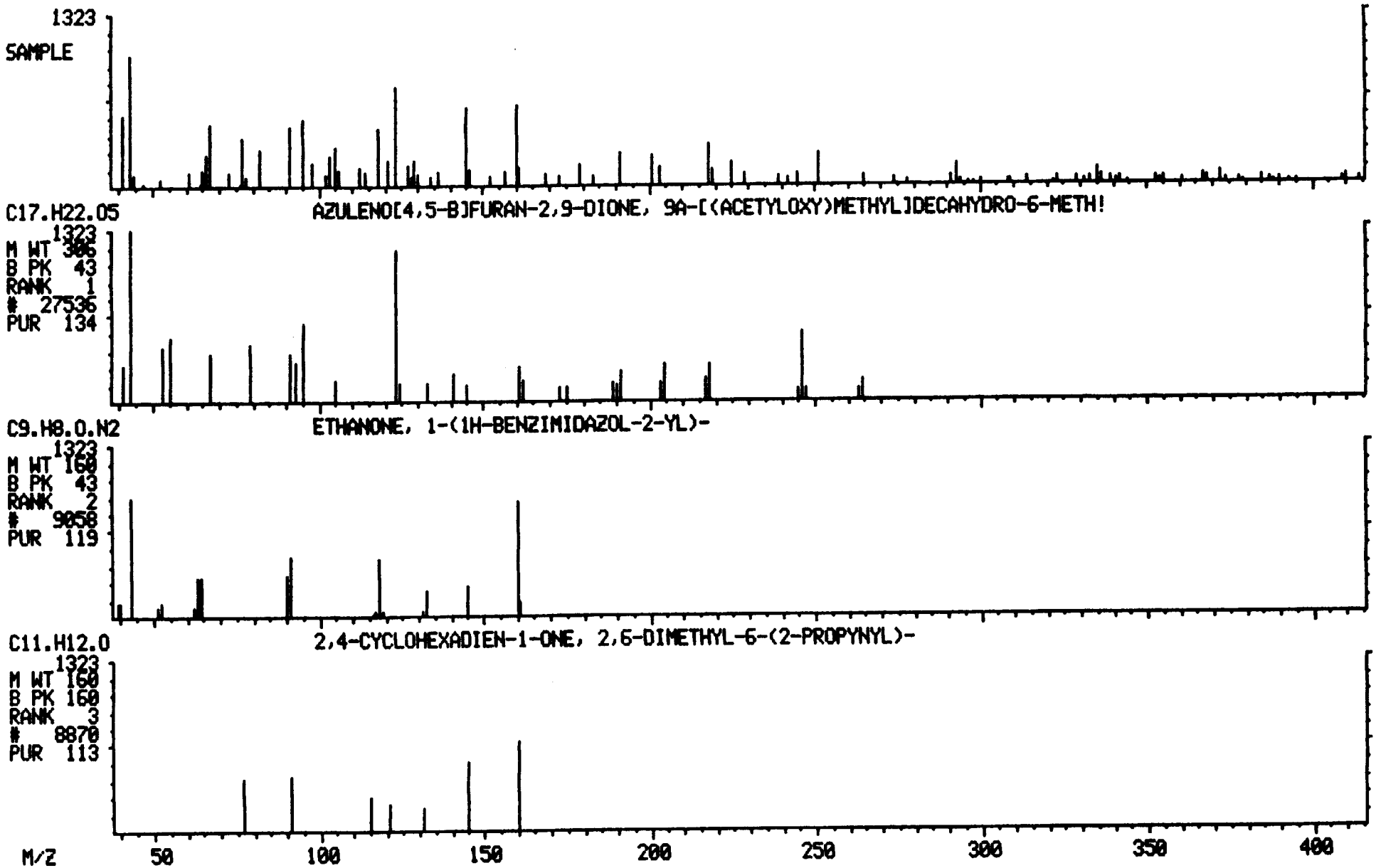
BASE M/Z: 69
RIC: 116863.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 31:00
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1860
CALI: EQ325 # 2

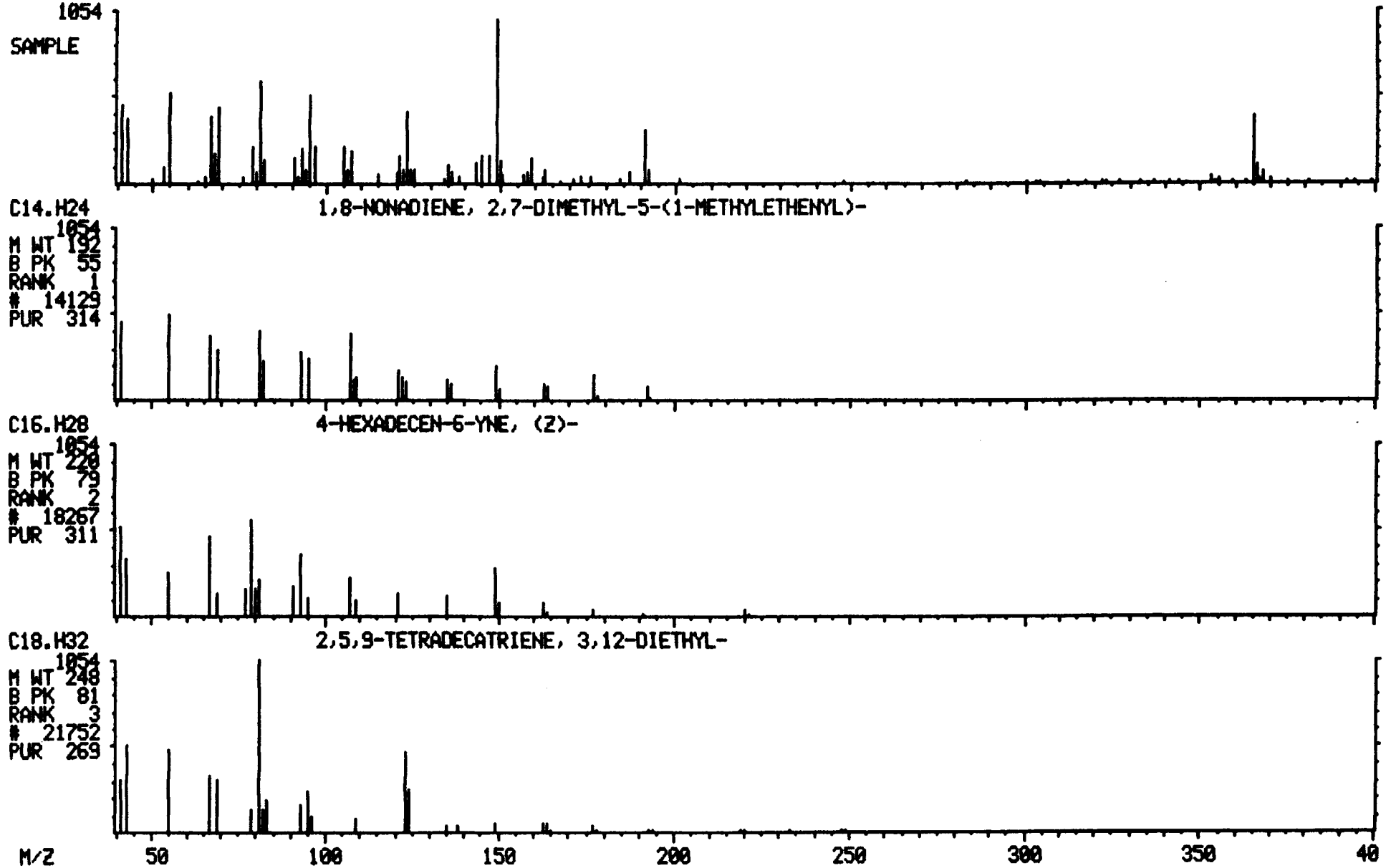
BASE M/Z: 43
RIC: 24319.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 32:01
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1921
CALI: EQ325 # 2

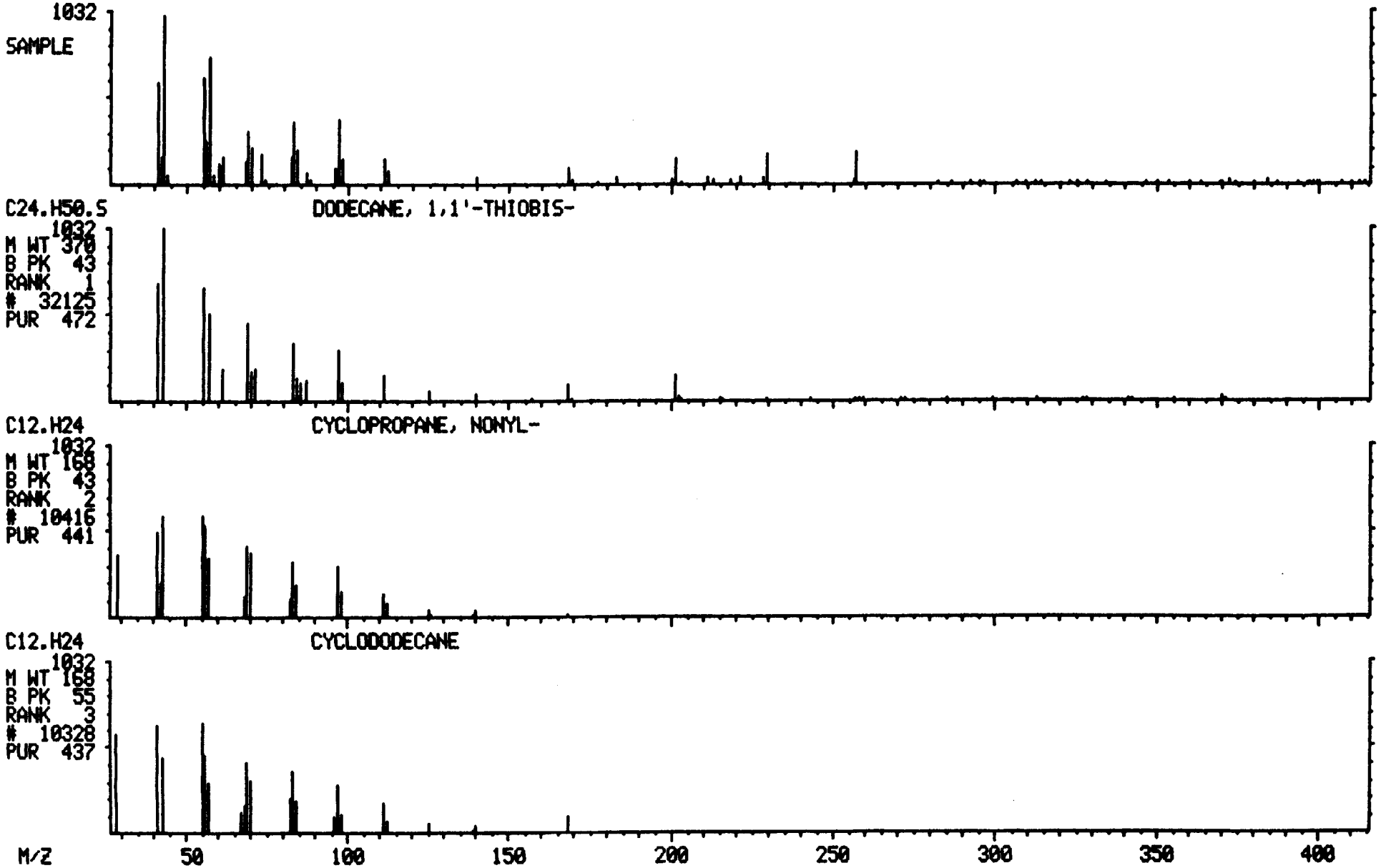
BASE M/Z: 149
RIC: 53055.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 32:24
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1944
CALI: EQ325 # 2

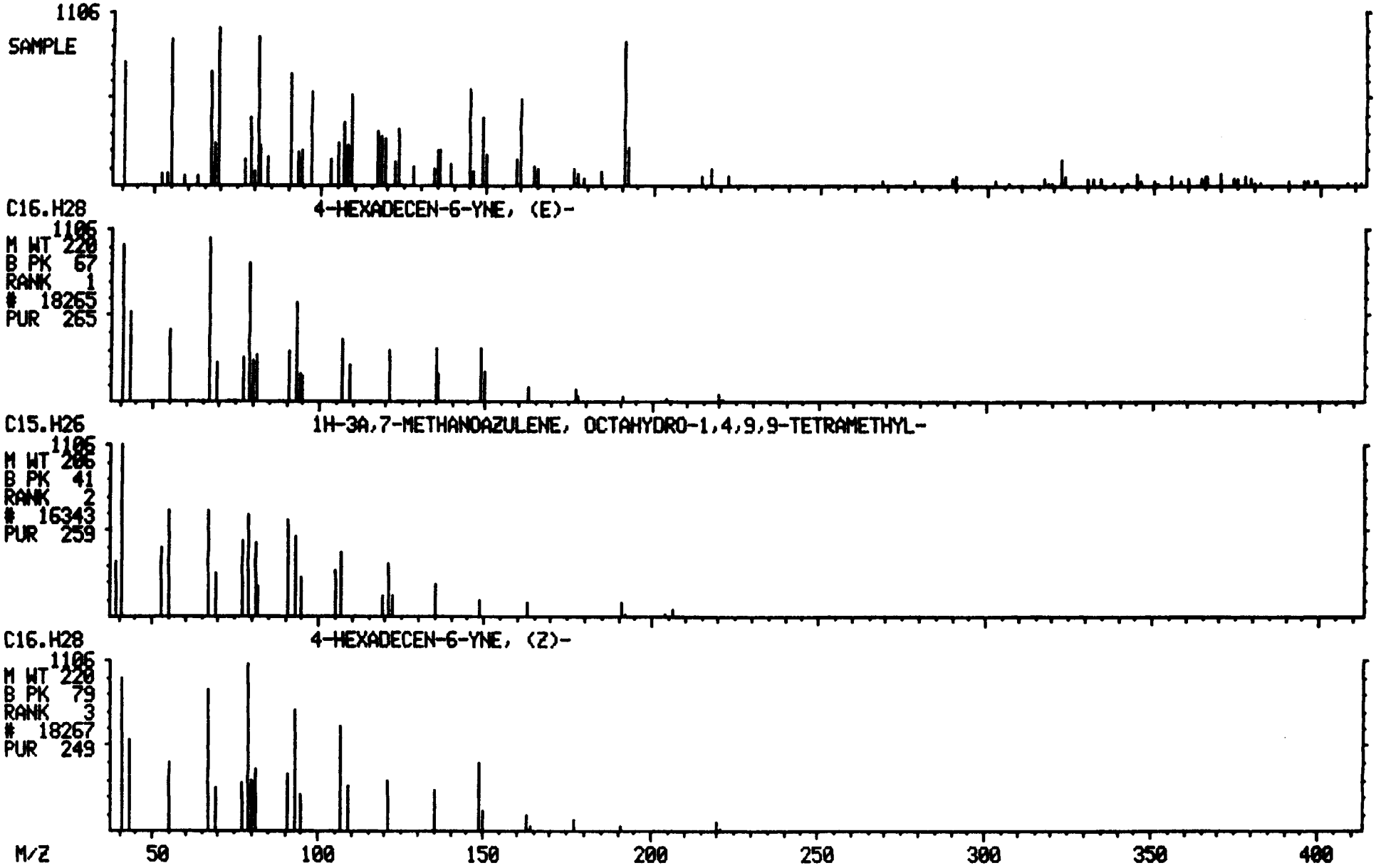
BASE M/Z: 43
RIC: 39167.



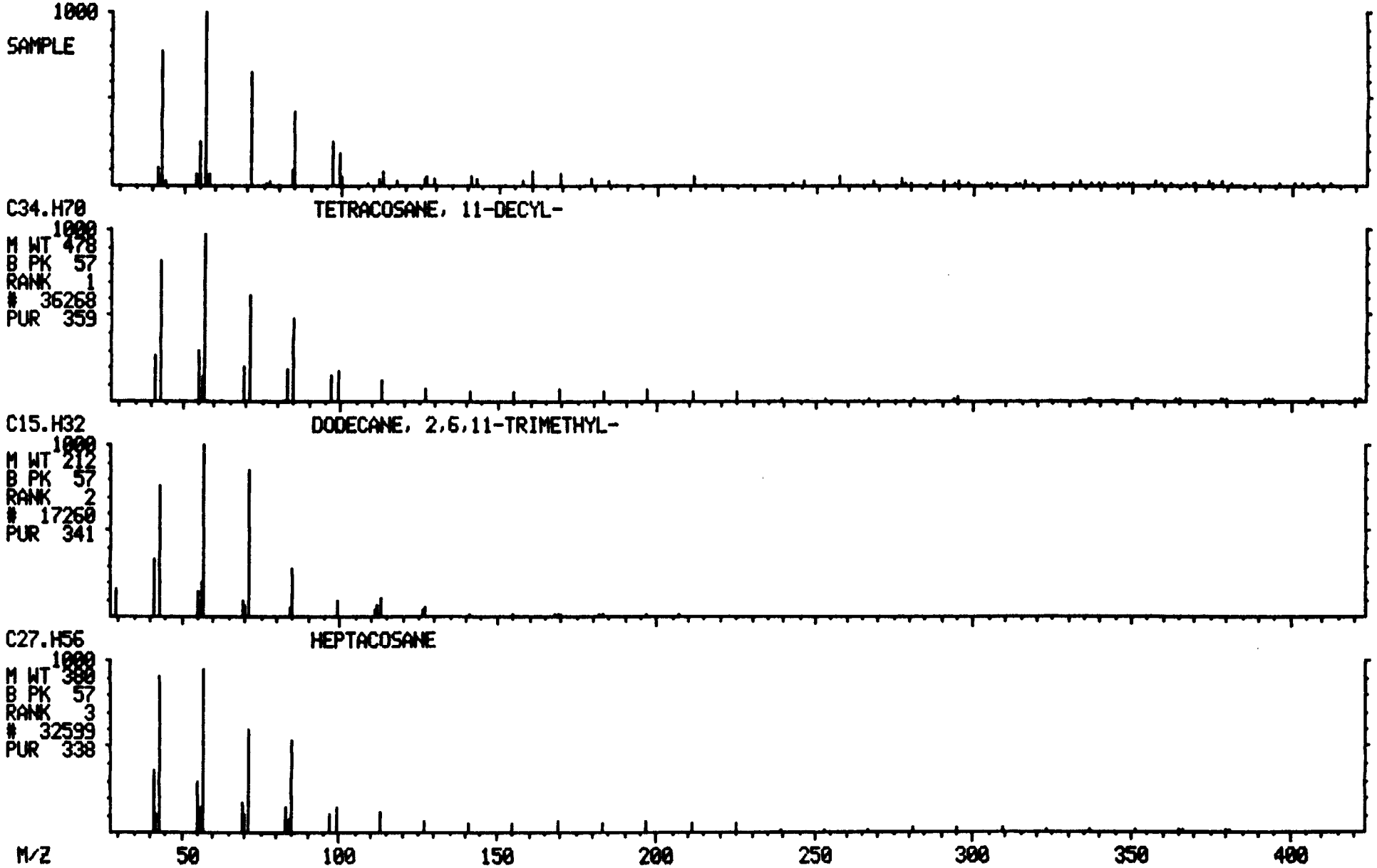
MID LIBRARY SEARCH
08/09/85 17:35:00 + 32:34
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #1954
CALI: EQ325 # 2

BASE M/Z: 69
RIC: 32959.



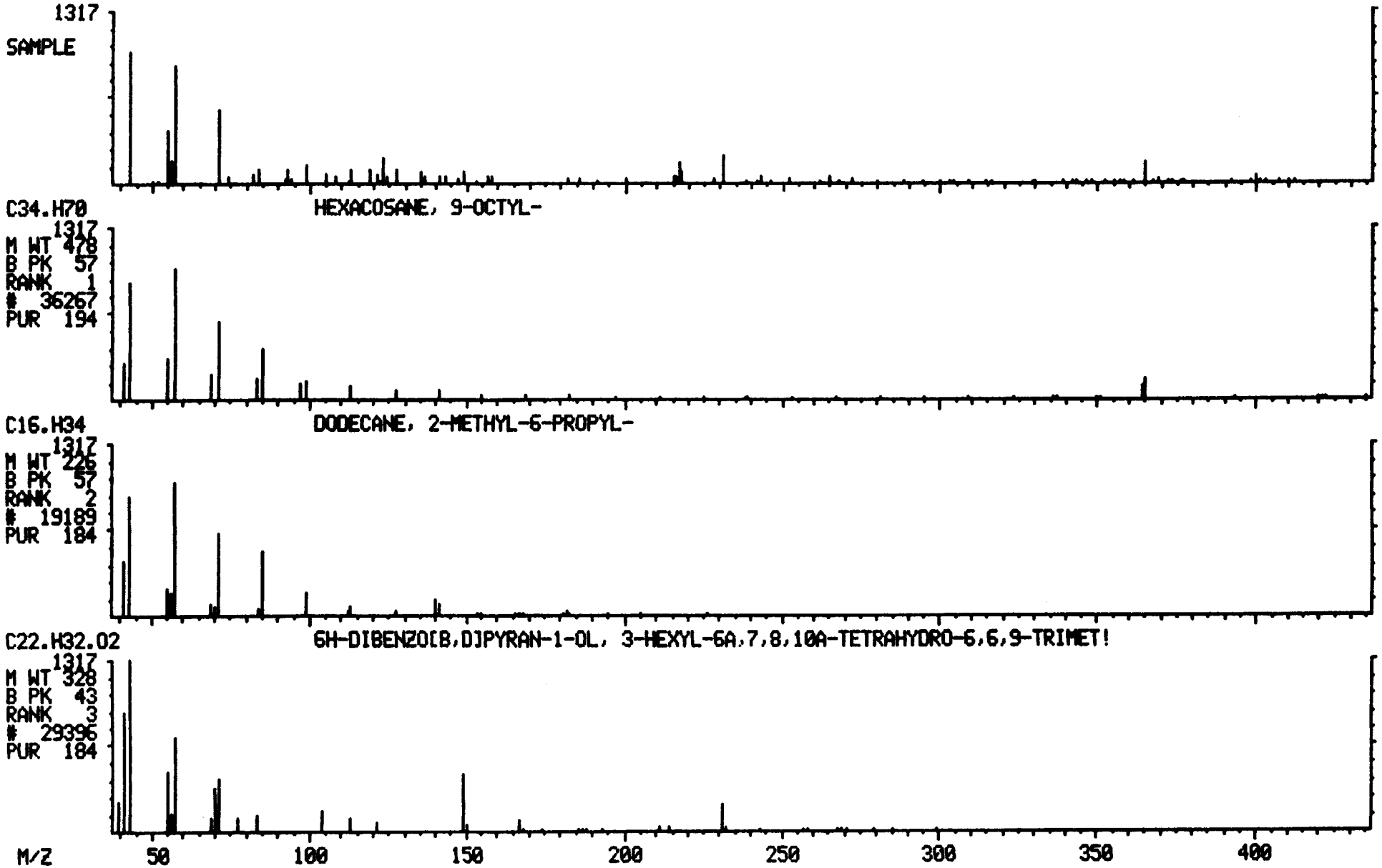
MID LIBRARY SEARCH
08/09/85 17:35:00 + 32:52
DATA: EQ325 #1972
CALI: EQ325 # 2
BASE M/Z: 57
RIC: 21375.
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



MID LIBRARY SEARCH
08/09/85 17:35:00 + 33:22
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2002
CALI: EQ325 # 2

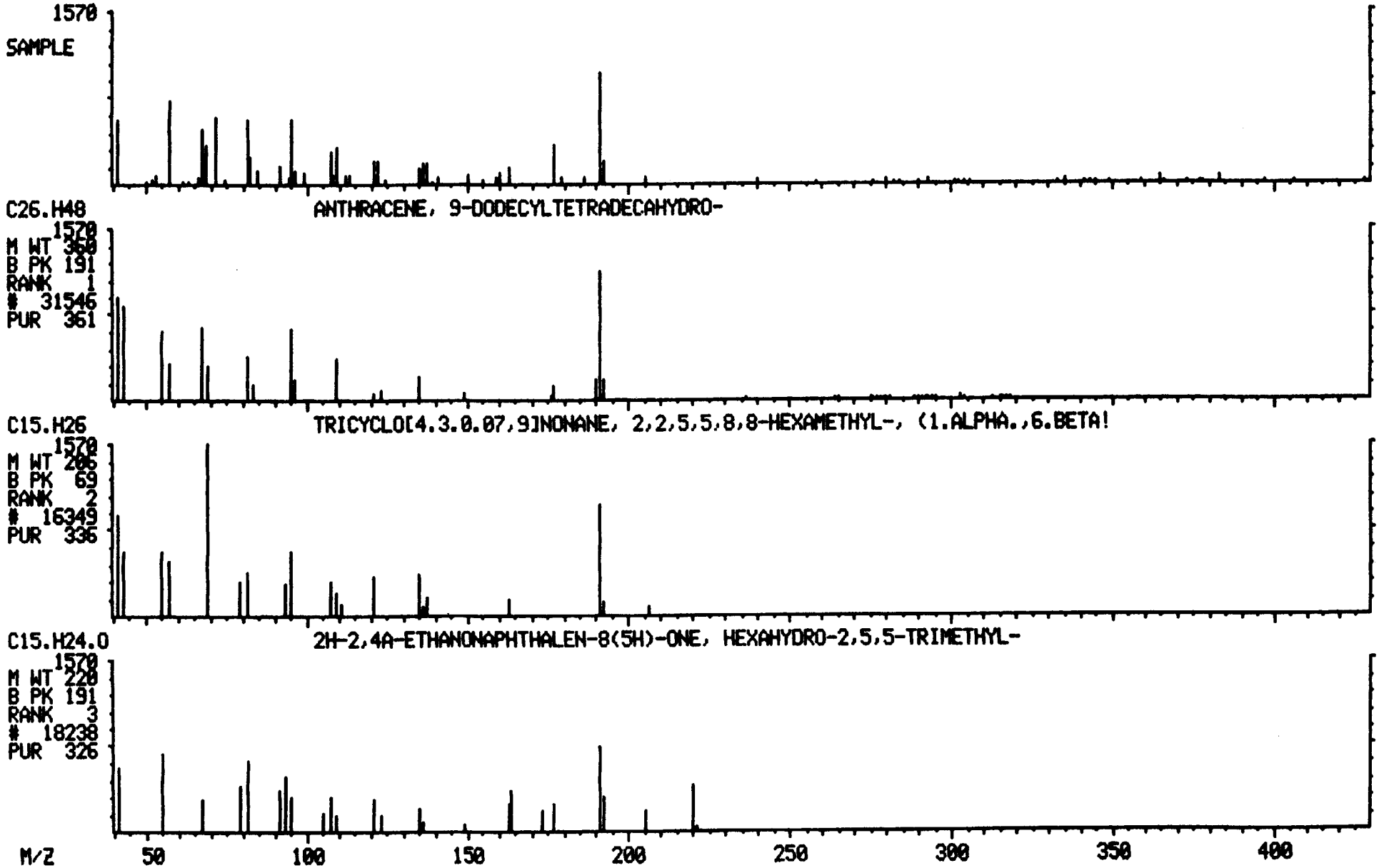
BASE M/Z: 43
RIC: 24095.

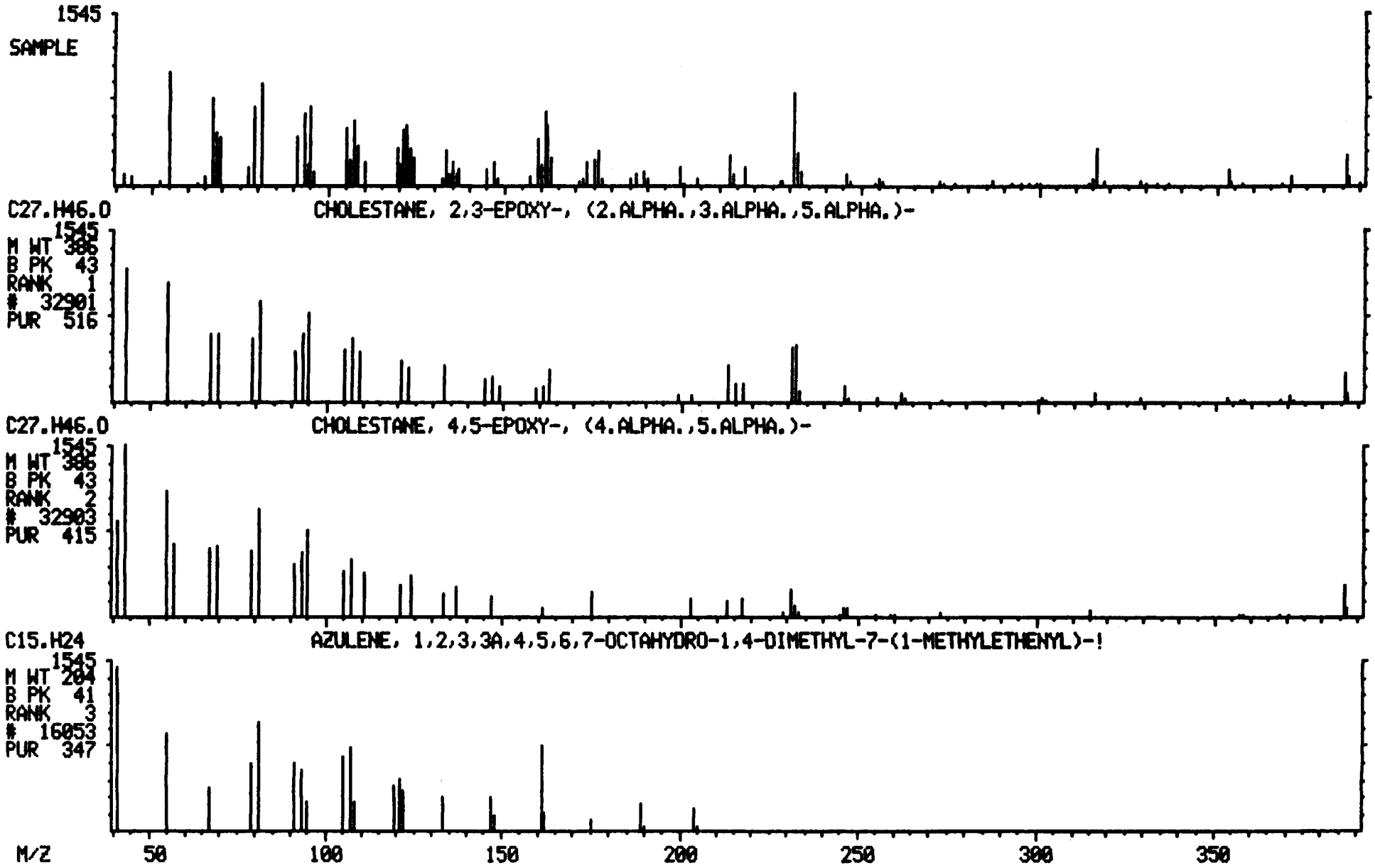


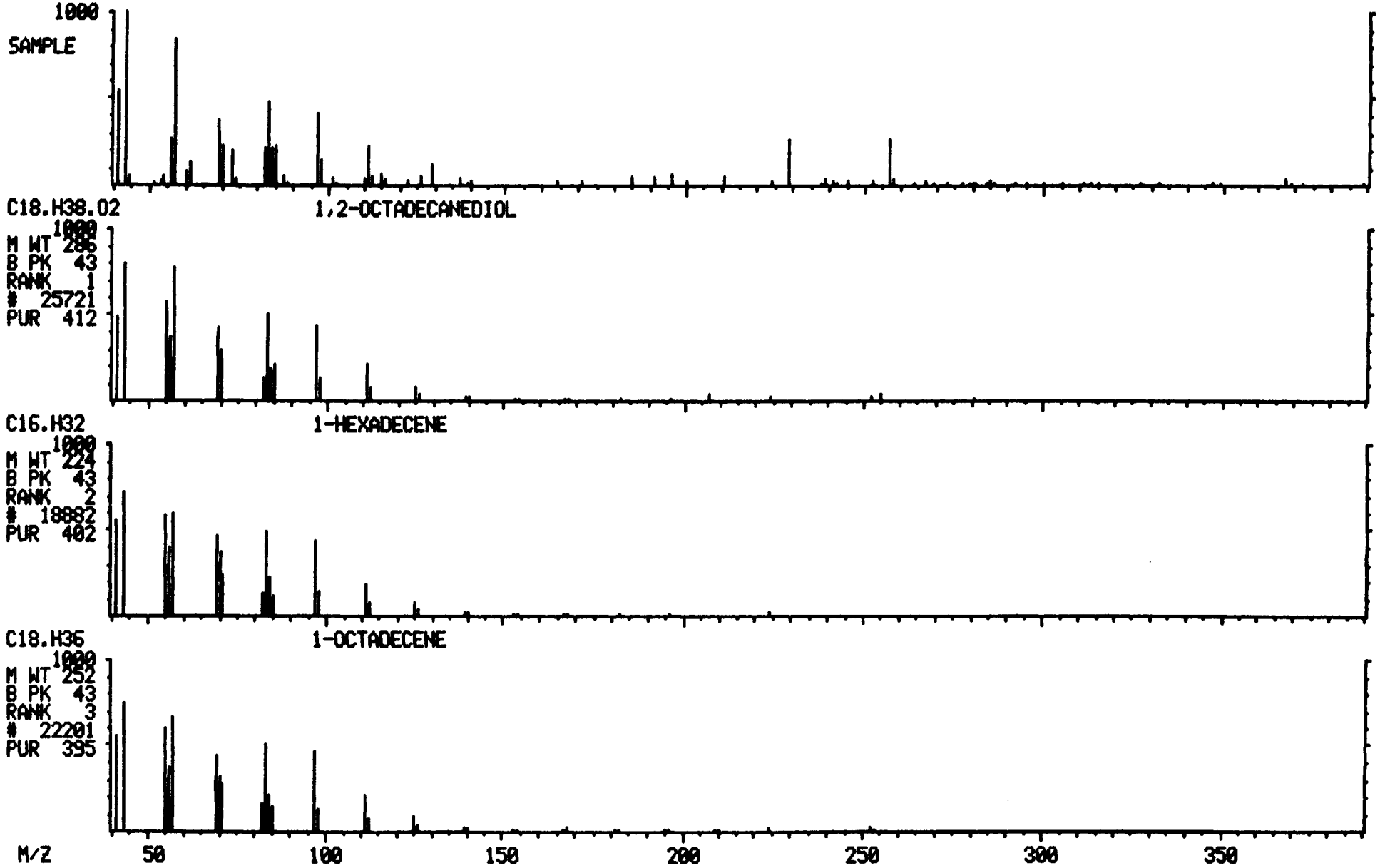
MID LIBRARY SEARCH
00/09/85 17:35:00 + 34:47
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2087
CALI: EQ325 # 2

BASE M/Z: 191
RIC: 27871.



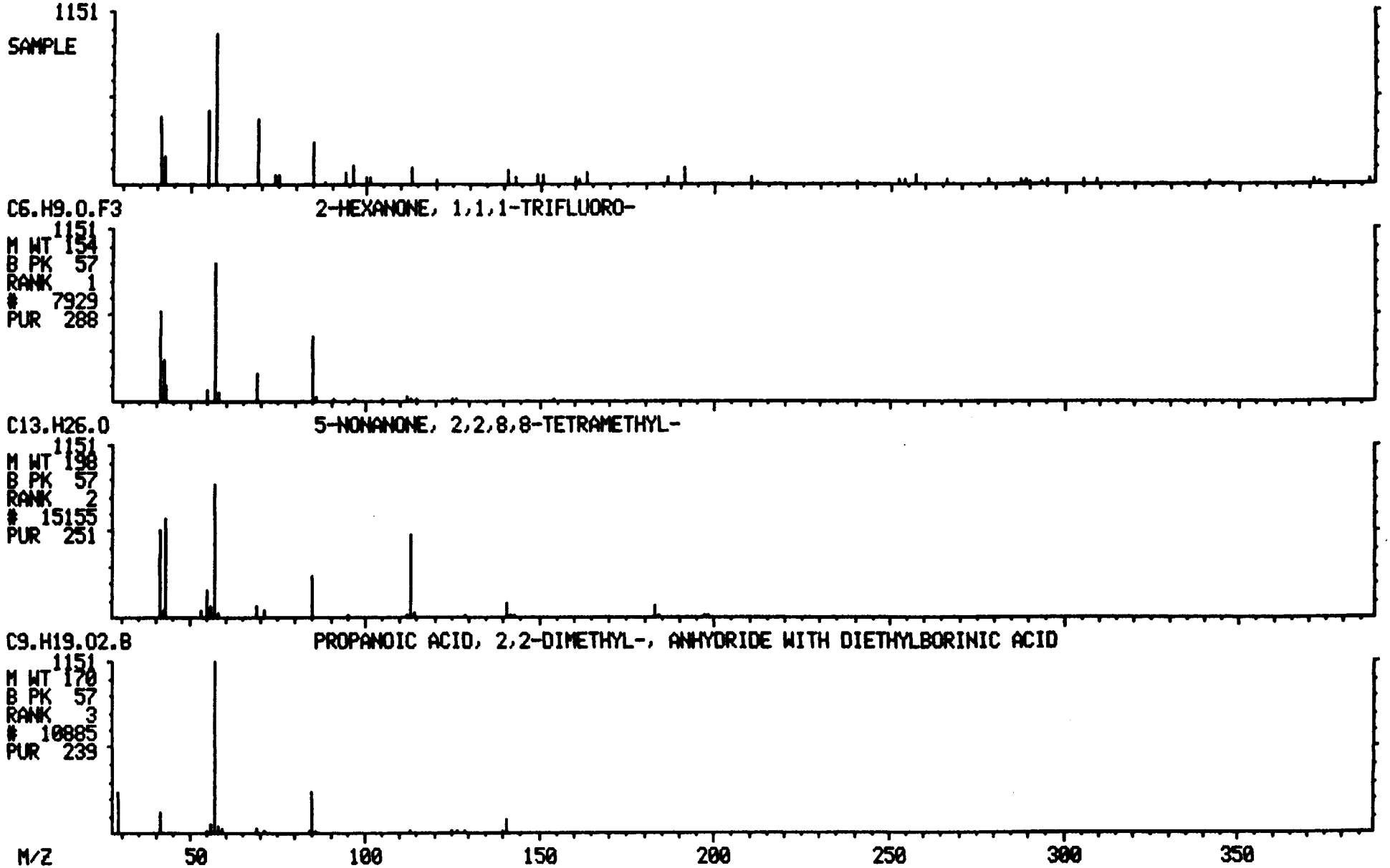

MID LIBRARY SEARCH
08/09/85 17:35:00 + 36:00
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #2160
CALI: EQ325 # 2
BASE M/Z: 55
RIC: 56959.
1545
SAMPLE
C27.H46.O
CHOLESTANE, 2,3-EPOXY-, (2.ALPHA.,3.ALPHA.,5.ALPHA.)-
M WT 386
B PK 43
RANK 1
32901
PUR 516
C27.H46.O
CHOLESTANE, 4,5-EPOXY-, (4.ALPHA.,5.ALPHA.)-
M WT 386
B PK 43
RANK 2
32903
PUR 415
C15.H24
AZULENE, 1,2,3,3A,4,5,6,7-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHENYL)-!
M WT 204
B PK 41
RANK 3
16053
PUR 347
M/Z
50
100
150
200
250
300
350


MID LIBRARY SEARCH
08/09/85 17:35:00 + 36:19
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #2179
CALI: EQ325 # 2
BASE M/Z: 43
RIC: 39999.
1000
SAMPLE
C18.H38.02
1,2-OCTADECANEDIOL
M WT 286
B PK 43
RANK 1
25721
PUR 412
C16.H32
1-HEXADECENE
M WT 224
B PK 43
RANK 2
18882
PUR 402
C18.H36
1-OCTADECENE
M WT 252
B PK 43
RANK 3
22201
PUR 395
M/Z
50
100
150
200
250
300
350

MID LIBRARY SEARCH
08/09/85 17:35:00 + 37:01
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2221
CALI: EQ325 # 2

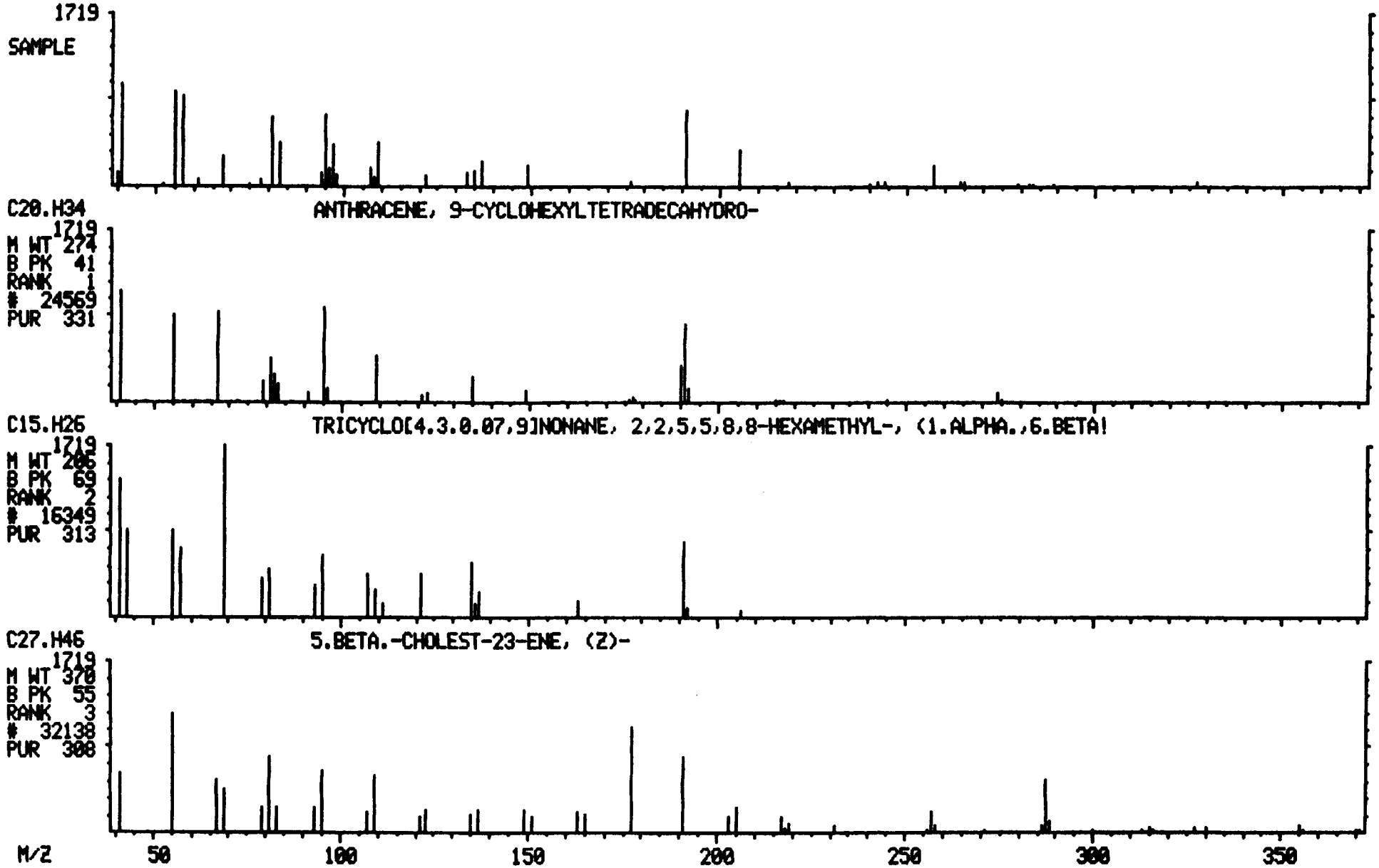
BASE M/Z: 57
RIC: 9887.



MID LIBRARY SEARCH
08/09/85 17:35:00 + 39:00
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2340
CALI: EQ325 # 2

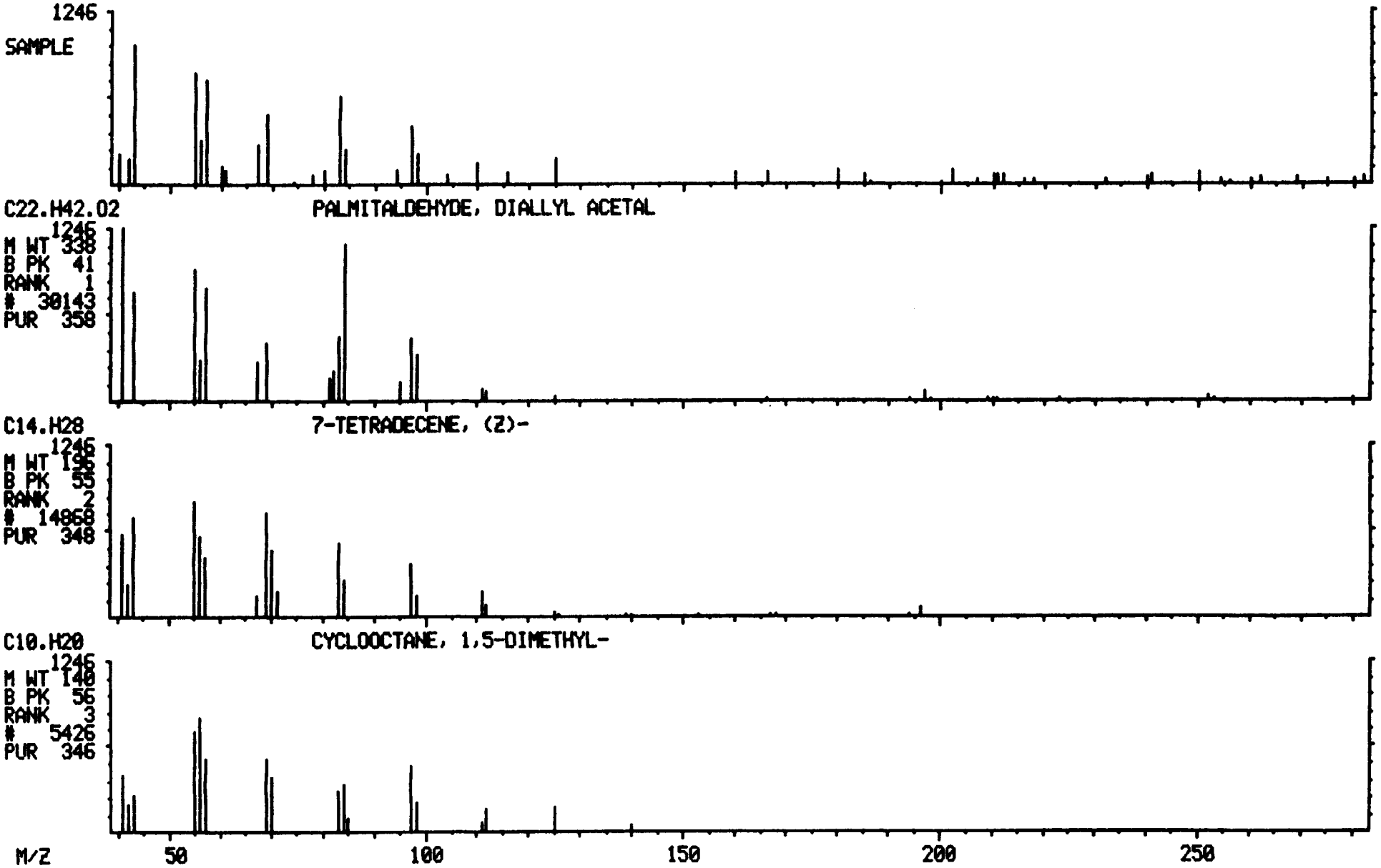
BASE M/Z: 41
RIC: 13295.

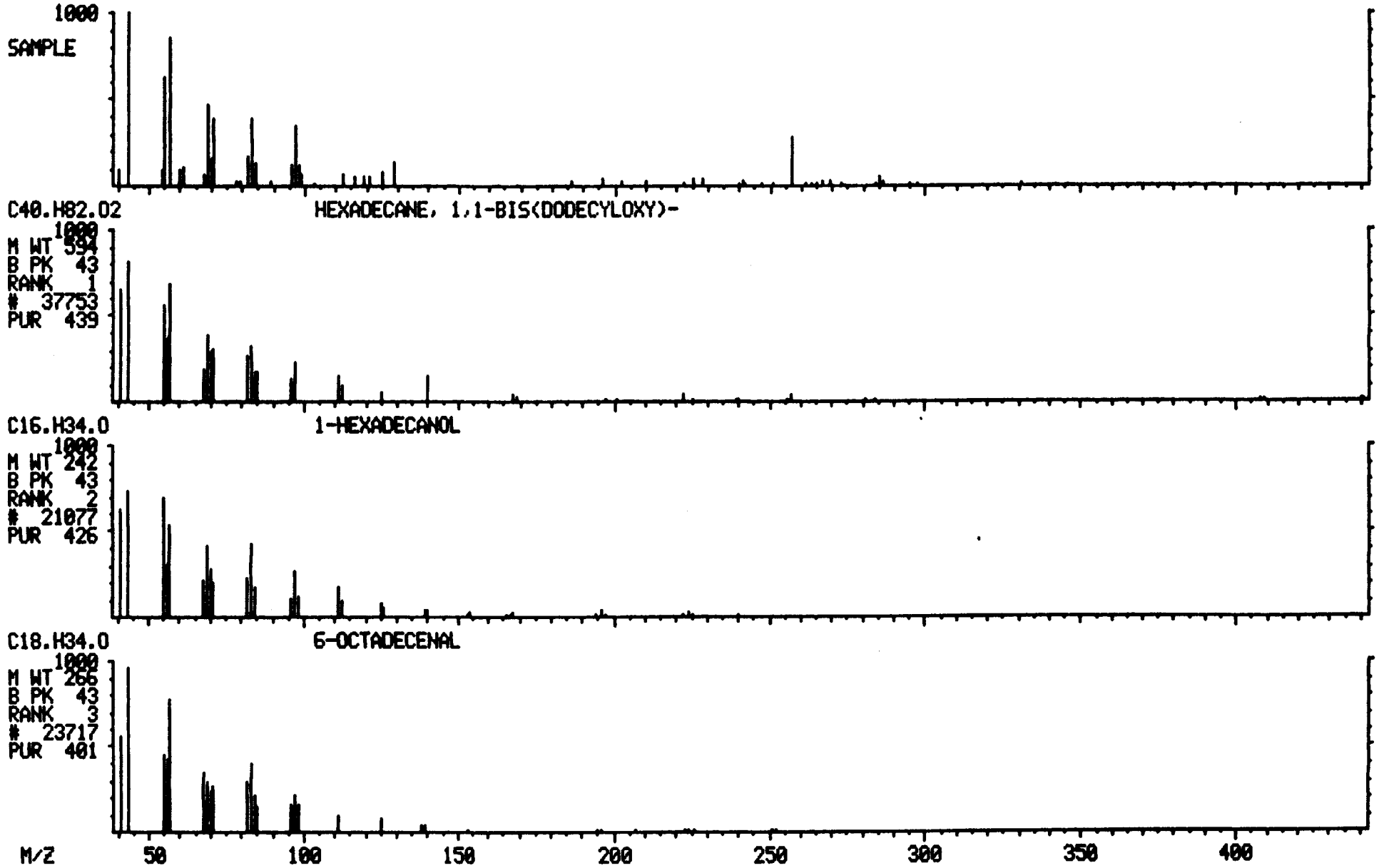


MID LIBRARY SEARCH
08/09/85 17:35:00 + 41:34
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2494
CALI: EQ325 # 2

BASE M/Z: 43
RIC: 9823.

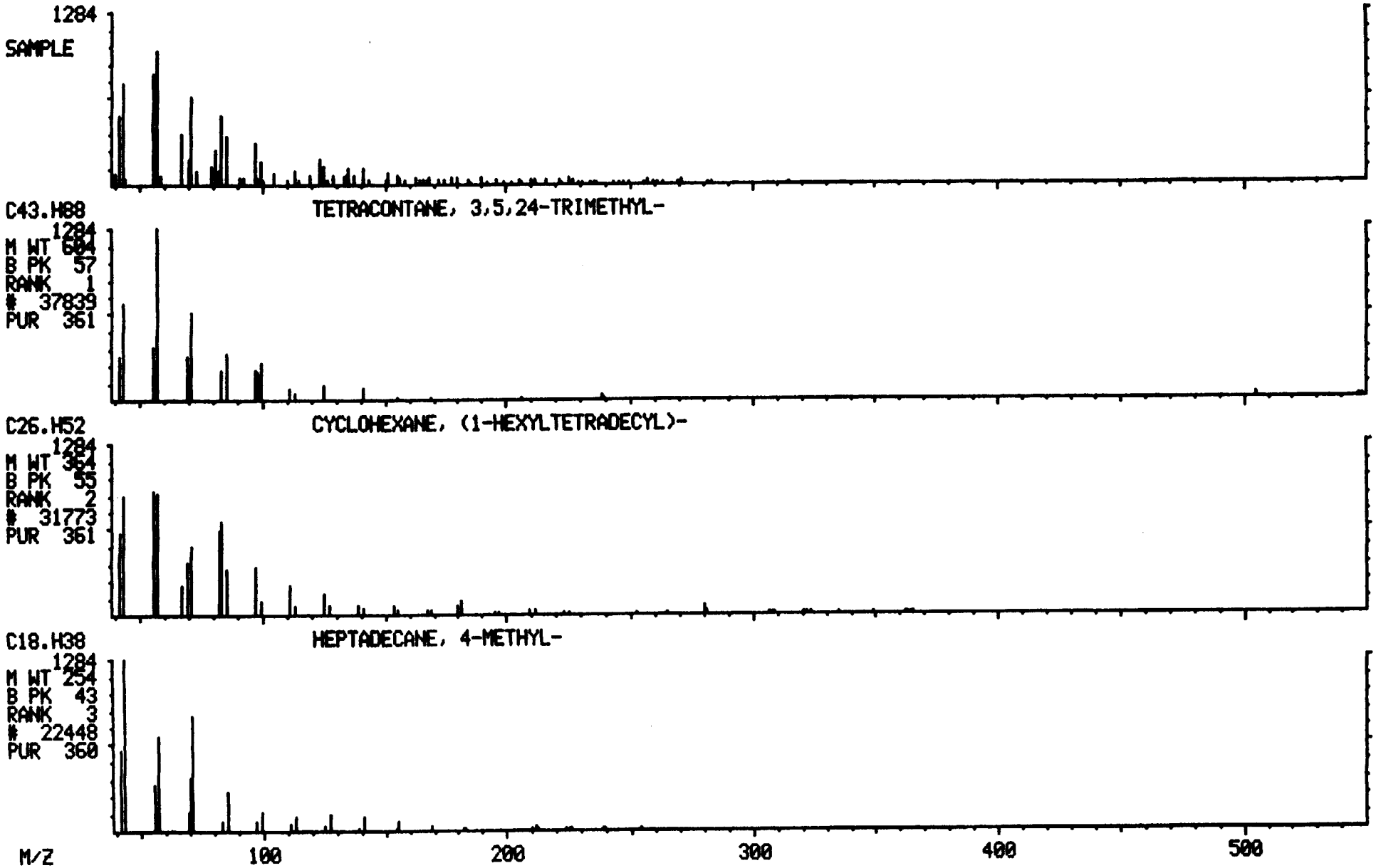


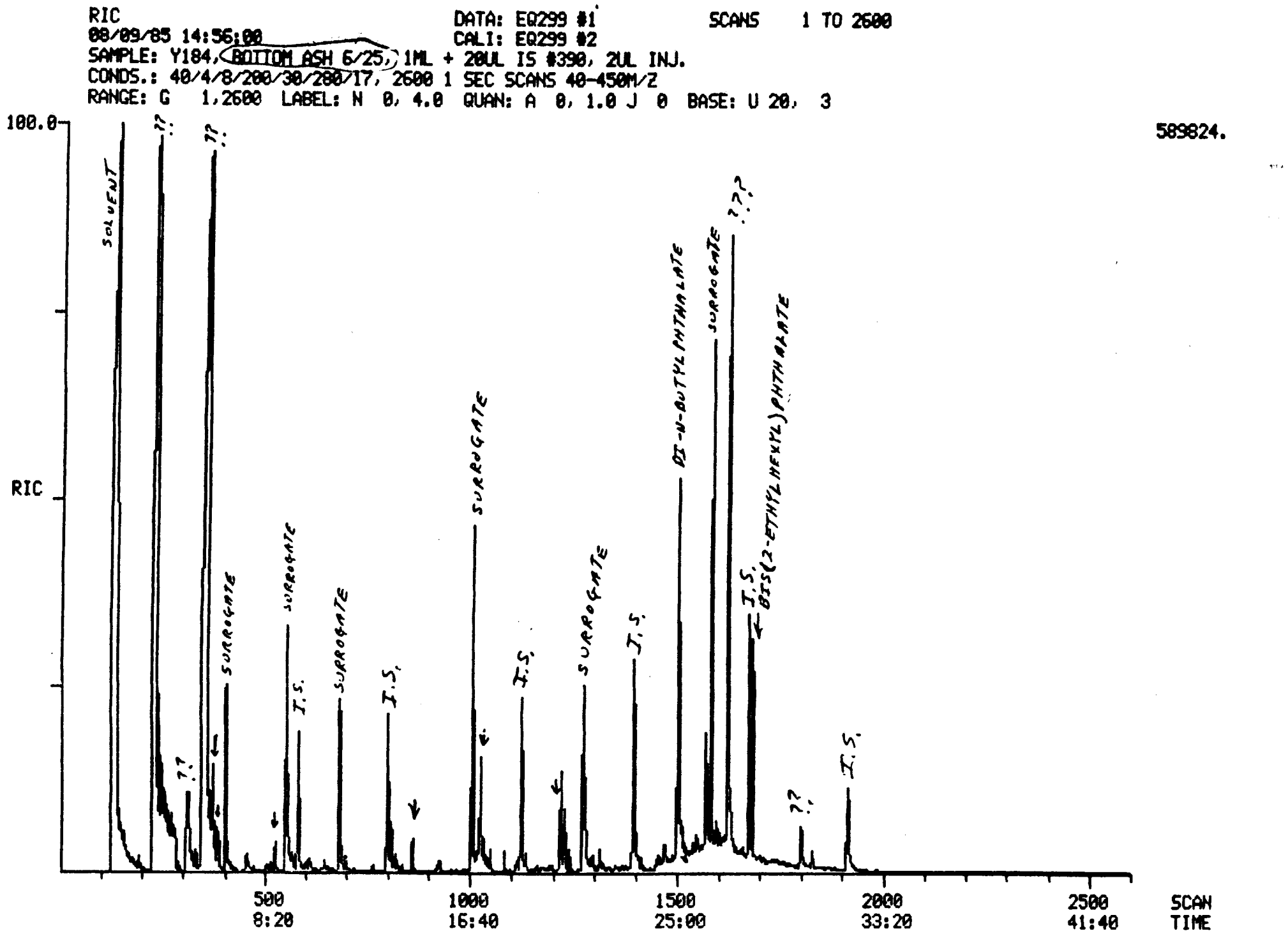

MID LIBRARY SEARCH
08/09/85 17:35:00 + 42:19
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ325 #2539
CALI: EQ325 # 2
BASE M/Z: 43
RIC: 22527.
1000
SAMPLE
C40.H82.O2
HEXADECANE, 1,1-BIS(DODECYLOXY)-
M WT 594
B PK 43
RANK 1
37753
PUR 439
C16.H34.O
1-HEXADECANOL
M WT 242
B PK 43
RANK 2
21077
PUR 426
C18.H34.O
6-OCTADECENAL
M WT 266
B PK 43
RANK 3
23717
PUR 401
M/Z
50
100
150
200
250
300
350
400

MID LIBRARY SEARCH
08/09/85 17:35:00 + 43:17
SAMPLE: Y187, SLUDGE FEED 3/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ325 #2597
CALI: EQ325 # 2

BASE M/Z: 57
RIC: 20863.




RIC
08/09/85 14:56:00
DATA: EQ299 #1
CALI: EQ299 #2
SCANS 1 TO 2600
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
589824.
RIC
C-241
SOLVENT
??
??
??
SURROGATE
SURROGATE
I.S.
SURROGATE
I.S.
SURROGATE
I.S.
SURROGATE
I.S.
DI-N-BUTYLPHTHALATE
SURROGATE
???
I.S.
BIS(2-ETHYLHEXYL)PHTHALATE
??
I.S.
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ299

Data: EQ299.TI
08/09/85 14:56:00
Sample: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #1: 2-FLUOROPHENOL (112)
3	QC #2: D5-PHENOL (99)
4	QC #3: D5-NITROBENZENE (82)
~~5~~	~~N-NITROSODIMETHYLAMINE (74)~~
6	IS #2: D8-NAPHTHALENE (136)
~~7~~	~~NAPHTHALENE (128)~~
8	IS #3: D10-ACENAPTHENE (164)
9	QC #4: 2-FLUOROBIPHENYL (172)
~~10~~	~~DIETHYL PHTHALATE (149)~~
11	IS #4: D10-PHENANTHRENE (188)
12	QC #5: 2,4,6-TRIBROMOPHENOL (330)
13	DI-N-BUTYLPHTHALATE (149) $
14	IS #5: D12-CHRYSENE (240)
15	QC #6: D14-TERPHENYL (244)
~~16~~	~~BUTYLBENZYLPHTHALATE (149)~~
17	BIS(2-ETHYLHEXYL)PHTHALATE (149)
18	IS #6: D12-PERYLENE (264)

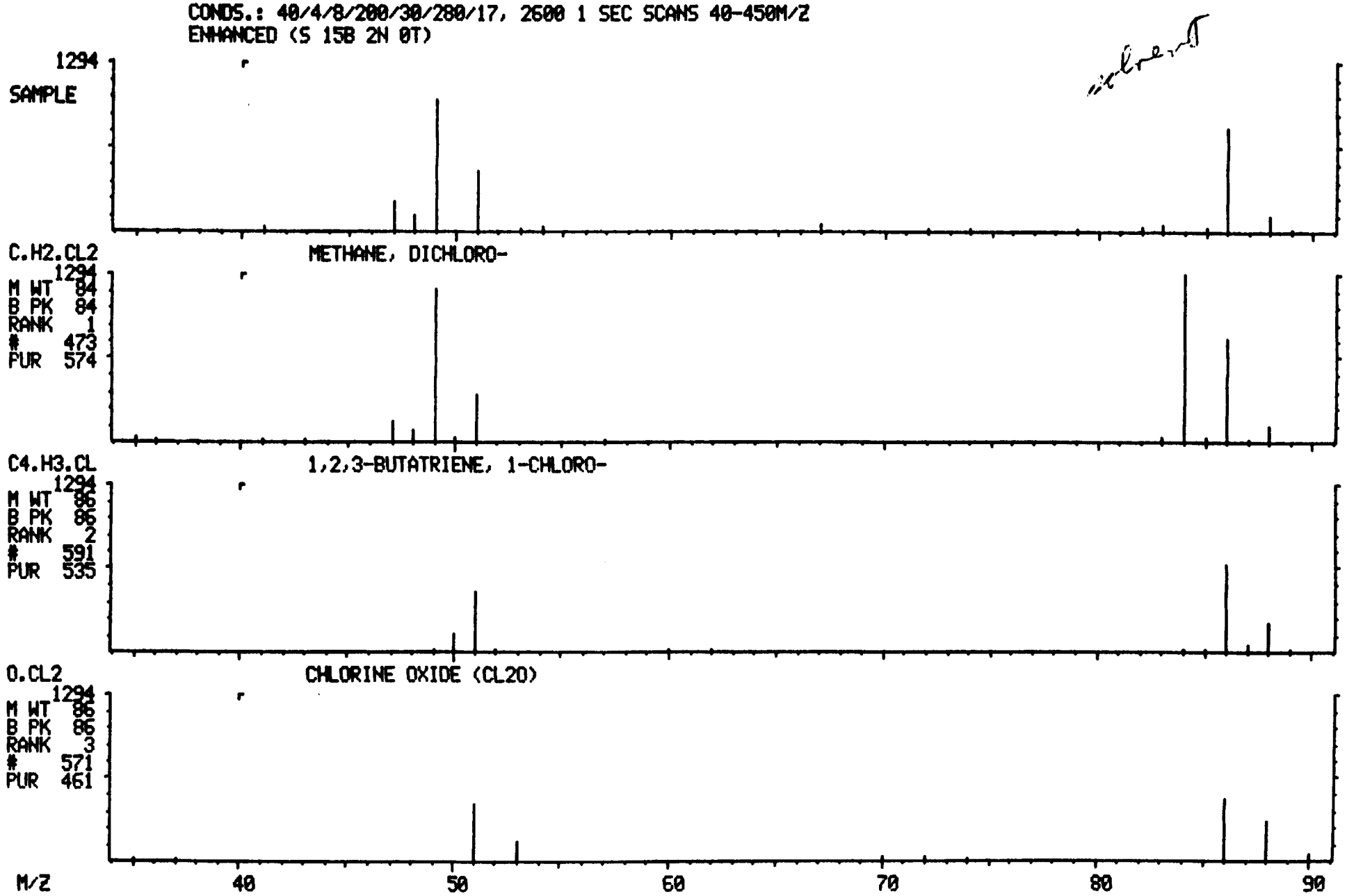
300 g
1 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	152	581	9:41	1	1.000	A BB	61154.	40.000	PPB IS	3.44	
2	112	401	6:41	1	0.690	A BB	170660.	181.081	PPB QC	15.59	
3	99	551	9:11	1	0.948	A BB	268972.	170.142	PPB QC	14.65	
4	82	681	11:21	1	1.172	A BB	172840.	100.150	PPB QC	8.62	
~~5~~	~~74~~	~~228~~	~~3:48~~	~~1~~	~~0.392~~	~~A BV~~	~~27880.~~	~~18.916~~	~~PPB~~	~~1.63~~	
6	136	800	13:20	6	1.000	A BB	210792.	40.000	PPB IS	3.44	
~~7~~	~~128~~	~~803~~	~~13:23~~	~~6~~	~~1.004~~	~~A BB~~	~~6950.~~	~~1.214~~	~~PPB~~	~~0.10~~	
8	164	1122	18:42	8	1.000	A BB	109245.	40.000	PPB IS	3.44	
9	172	1006	16:46	8	0.897	A BB	303938.	100.634	PPB QC	8.66	
~~10~~	~~149~~	~~1228~~	~~20:28~~	~~8~~	~~1.094~~	~~A BB~~	~~6308.~~	~~1.462~~	~~PPB~~	~~0.13~~	
11	188	1395	23:15	11	1.000	A BB	209956.	40.000	PPB IS	3.44	
12	330	1273	21:13	11	0.913	A BB	98412.	204.021	PPB QC	17.57	
13	149	1502	25:02	11	1.077	A BB	314669.	40.865	PPB	3.52	1.4 µg/g
14	240	1675	27:55	14	1.000	A BB	184462.	40.000	PPB IS	3.44	
15	244	1582	26:22	14	0.944	A BB	264788.	72.124	PPB QC	6.21	
~~16~~	~~149~~	~~1624~~	~~27:04~~	~~14~~	~~0.970~~	~~A VB~~	~~15043.~~	~~3.495~~	~~PPB~~	~~0.30~~	
17	149	1684	28:04	14	1.005	A BB	152600.	27.402	PPB	2.36	0.9 µg/g
18	264	1914	31:54	18	1.000	A BB	166272.	40.000	PPB IS	3.44	

LIBRARY SEARCH
08/09/85 14:56:00 + 2:11
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 131
CALI: EQ299 # 2

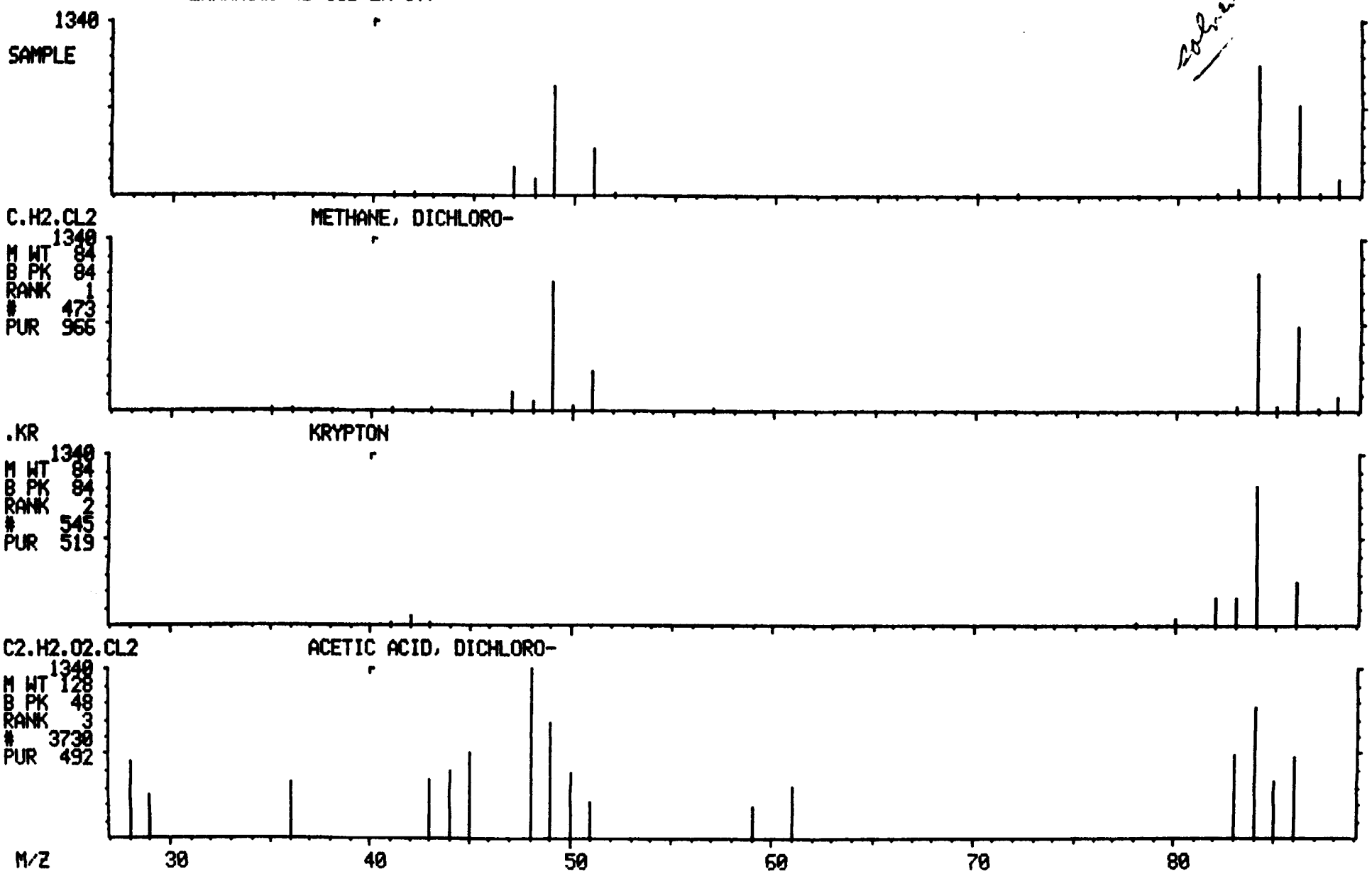
BASE M/Z: 49
RIC: 154367.



LIBRARY SEARCH
08/09/85 14:56:00 + 2:16
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 136
CALI: EQ299 # 2

BASE M/Z: 84
RIC: 346111.

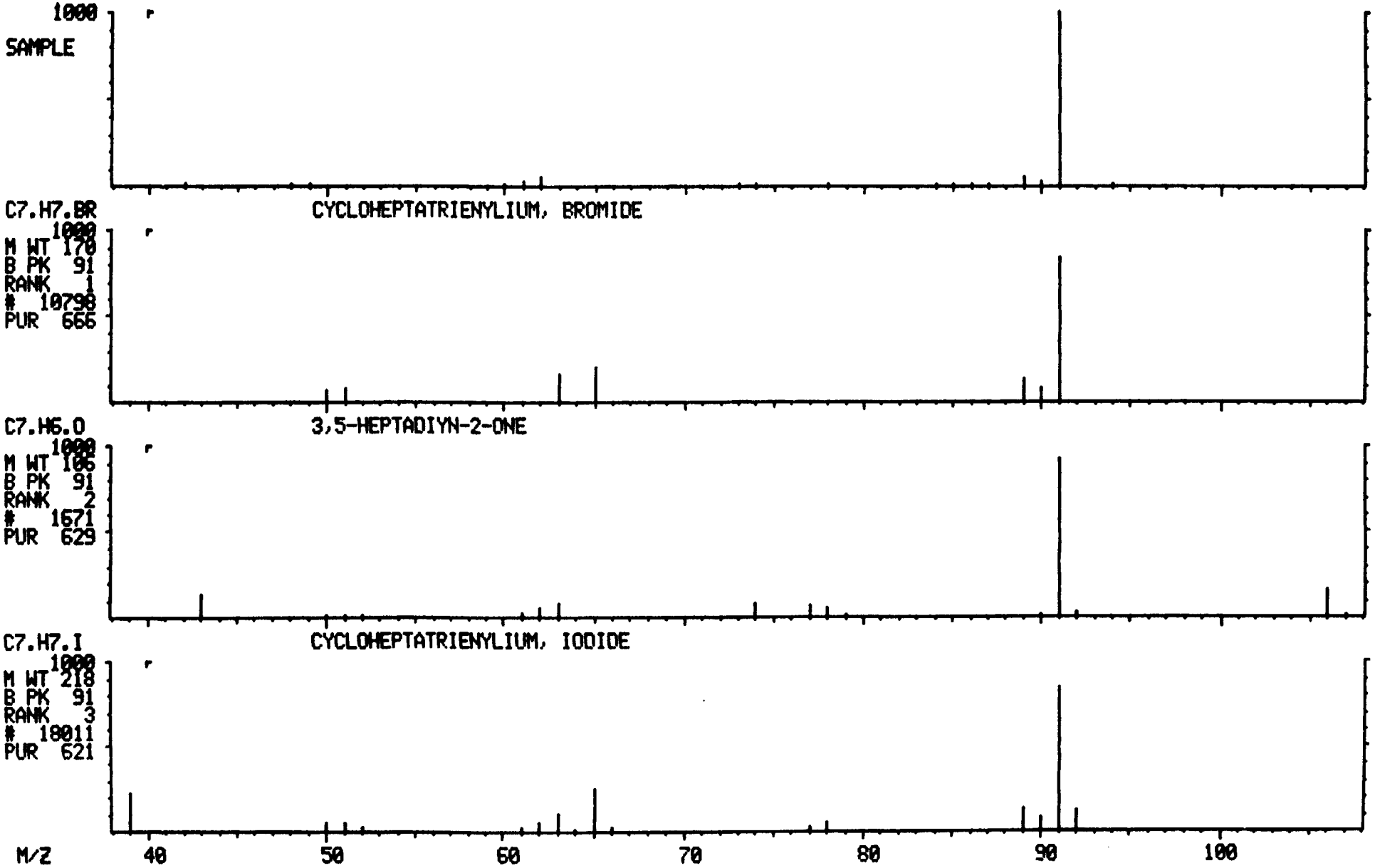


LIBRARY SEARCH
08/09/85 14:56:00 + 3:48
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 228
CALI: EQ299 # 2

BASE M/Z: 91
RIC: 278527.

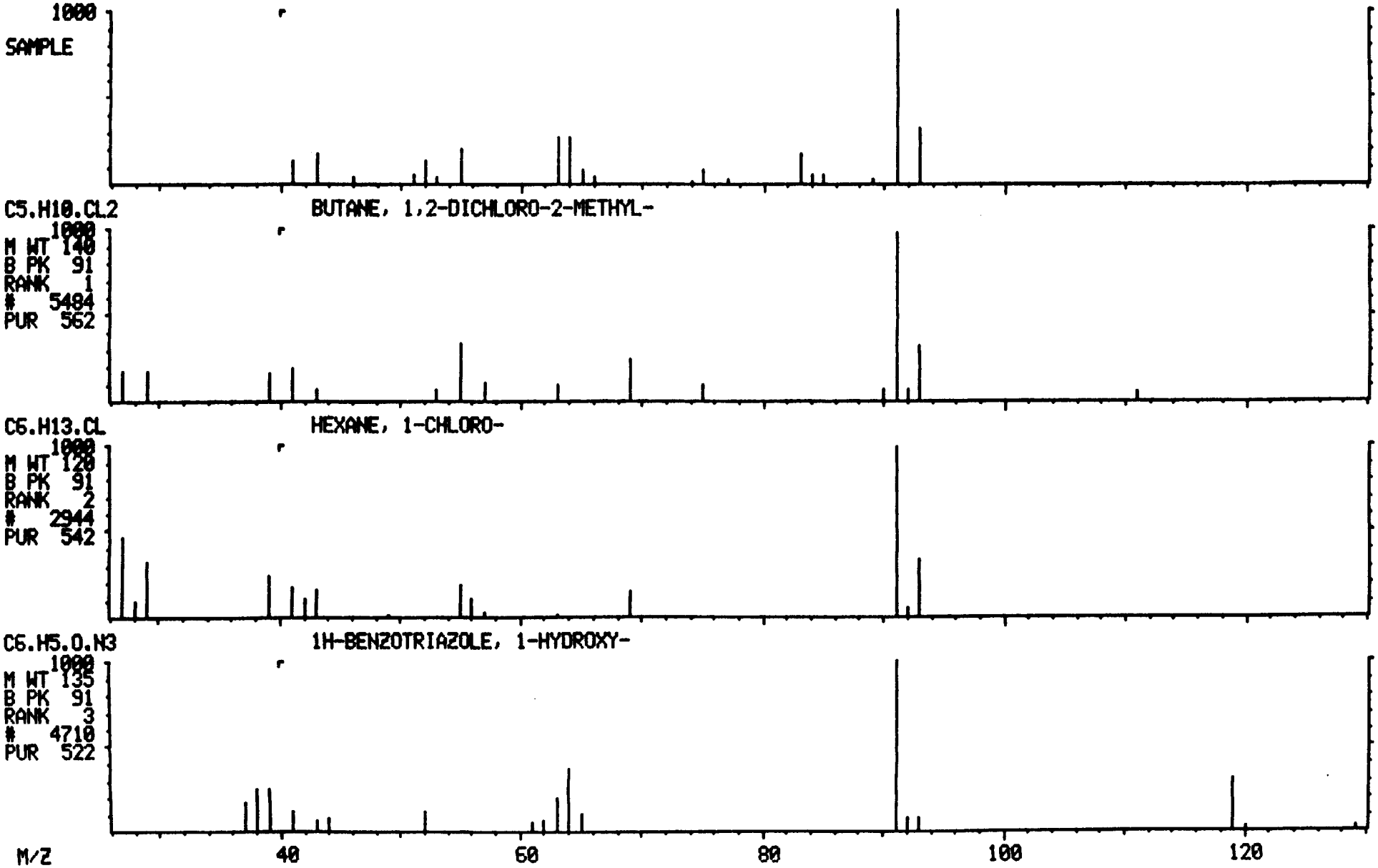
7



LIBRARY SEARCH
08/09/85 14:56:00 + 3:58
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 238
CALI: EQ299 # 2

BASE M/Z: 91
RIC: 6655.

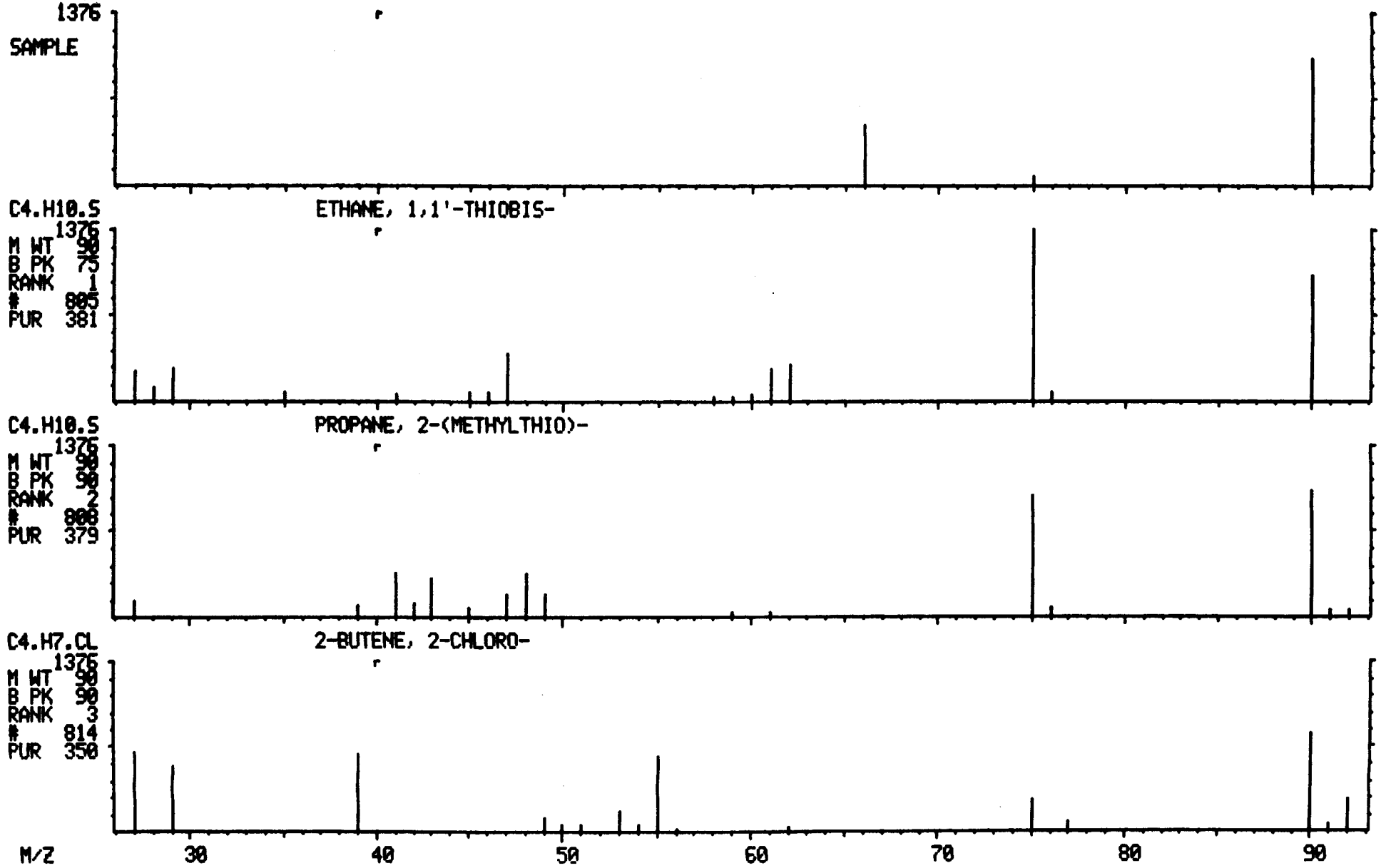


(7)

LIBRARY SEARCH
08/09/85 14:56:00 + 4:03
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 243
CALI: EQ299 # 2

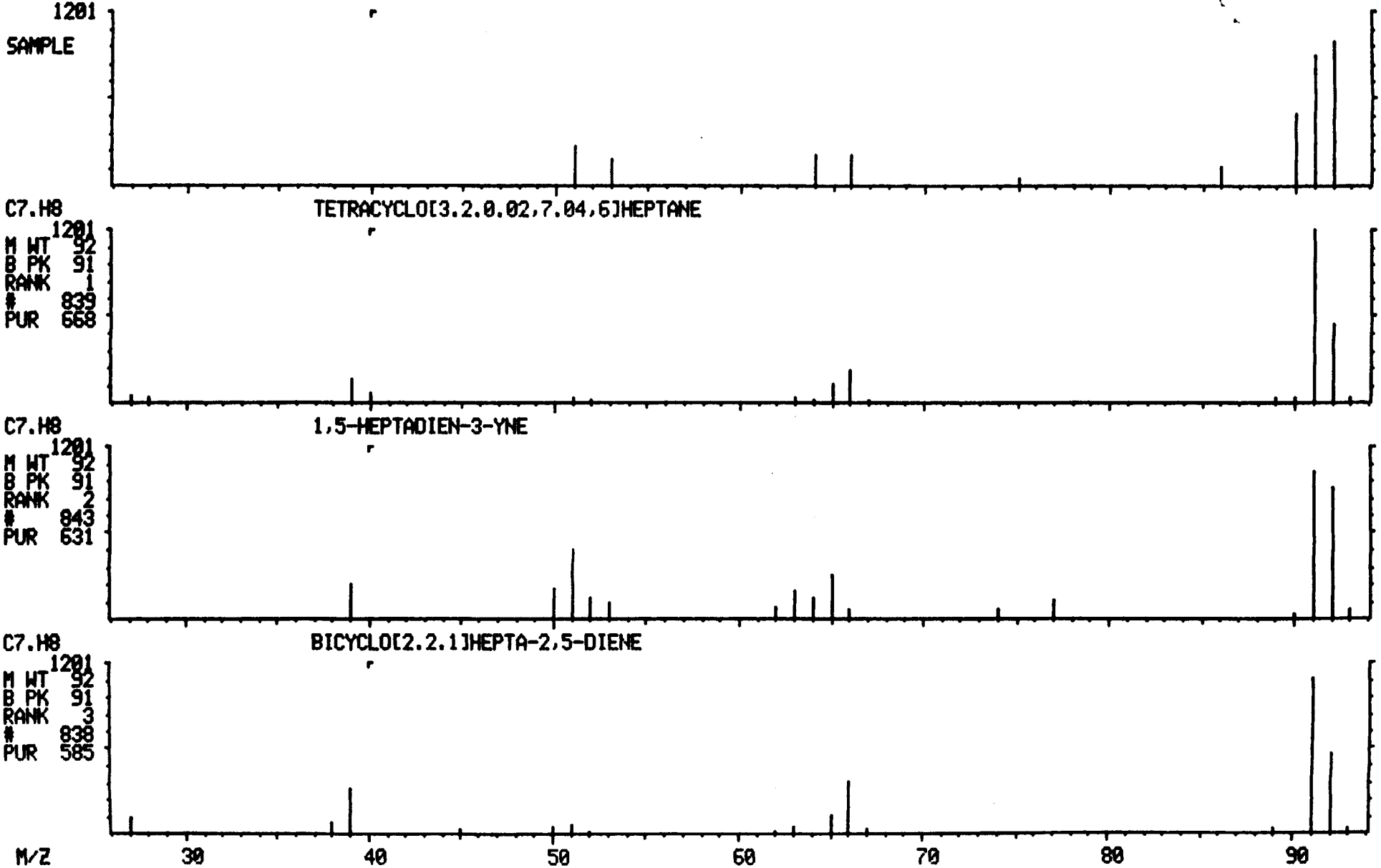
BASE M/Z: 90
RIC: 602.



LIBRARY SEARCH
08/09/85 14:56:00 + 4:10
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 250
CALI: EQ299 # 2

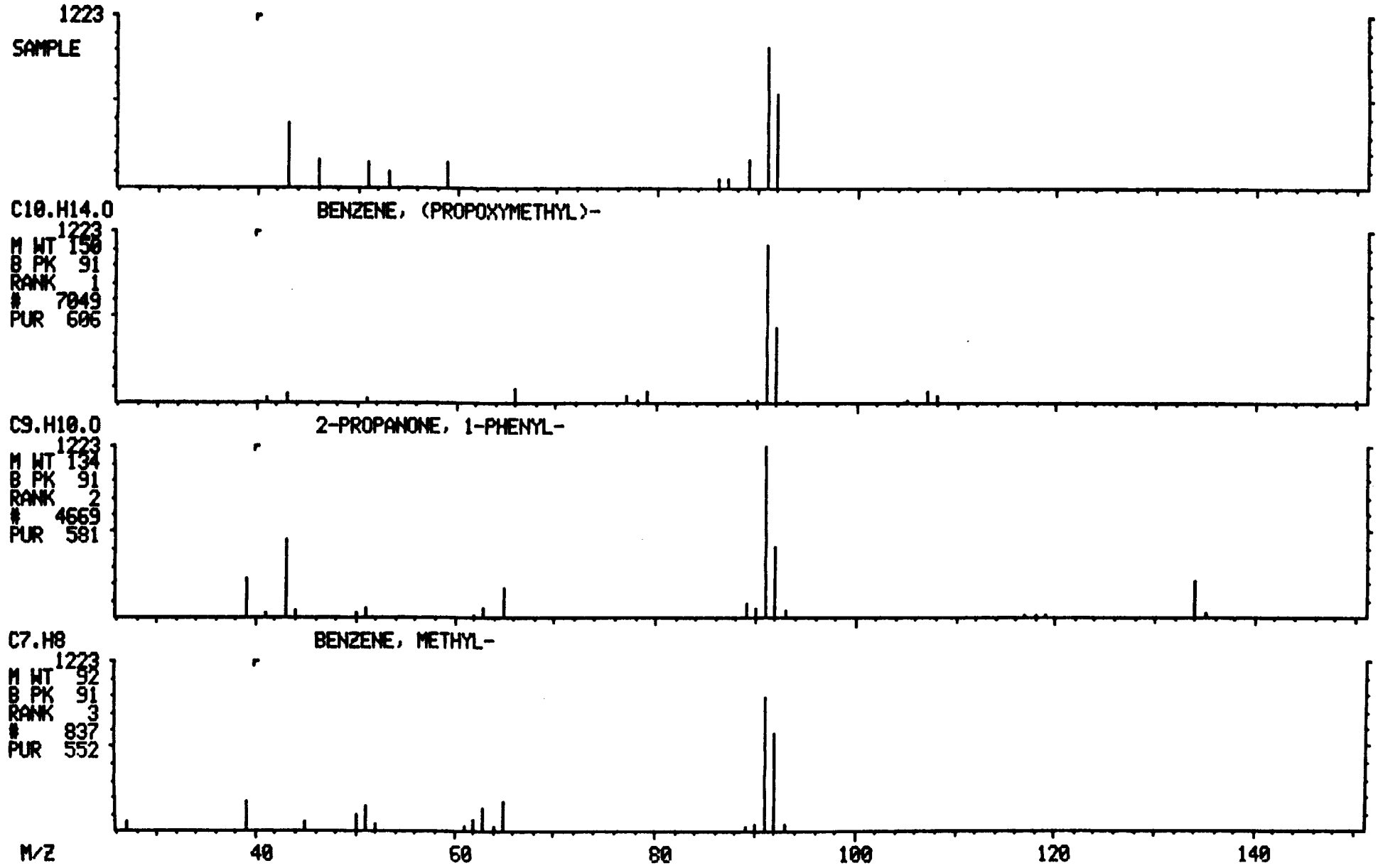
BASE M/Z: 92
RIC: 3131.



LIBRARY SEARCH
08/09/85 14:56:00 + 4:15
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 255
CALI: EQ299 # 2

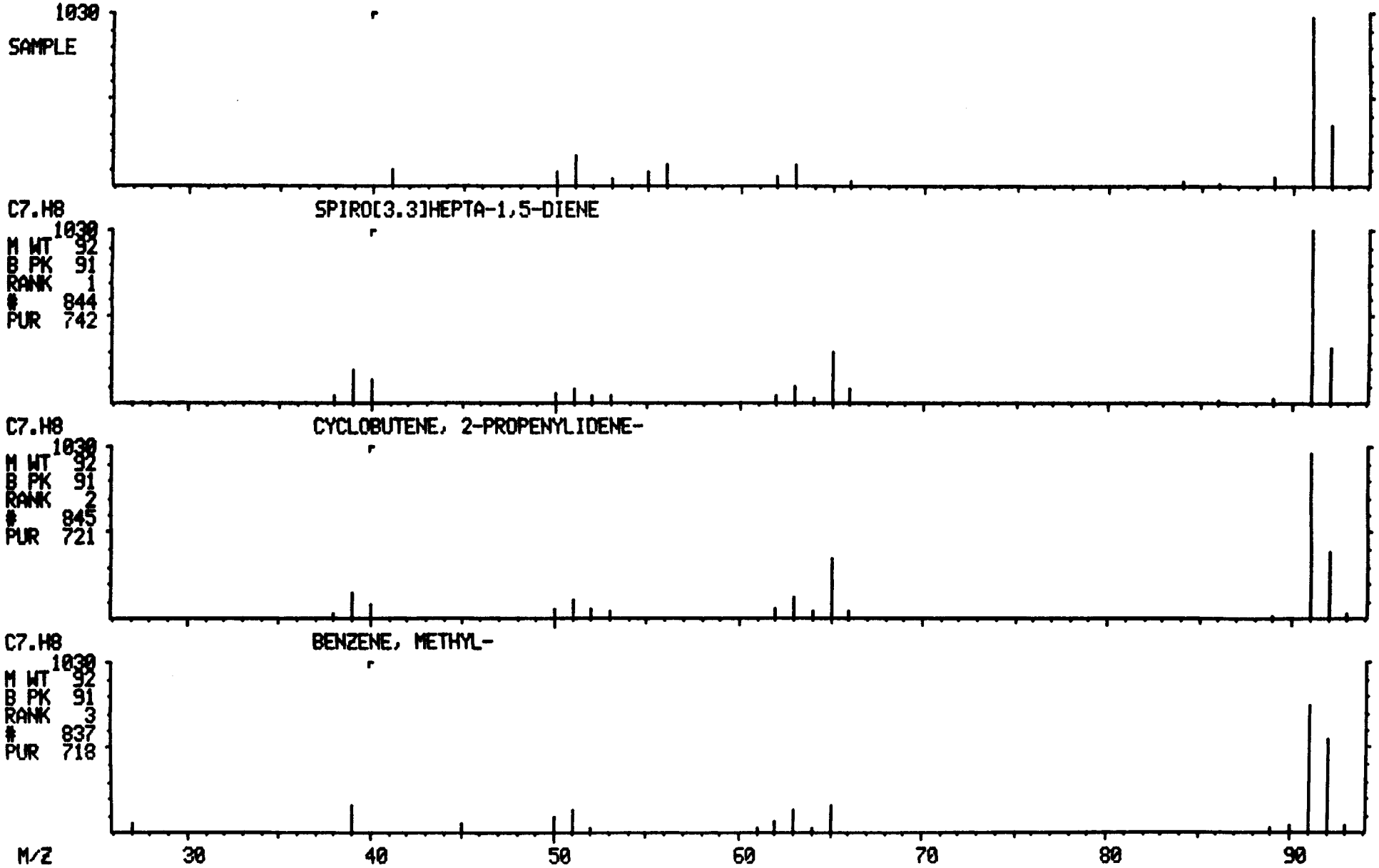
BASE M/Z: 91
RIC: 4399.



LIBRARY SEARCH
08/09/85 14:56:00 + 4:19
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 259
CALI: EQ299 # 2

BASE M/Z: 91
RIC: 6039.

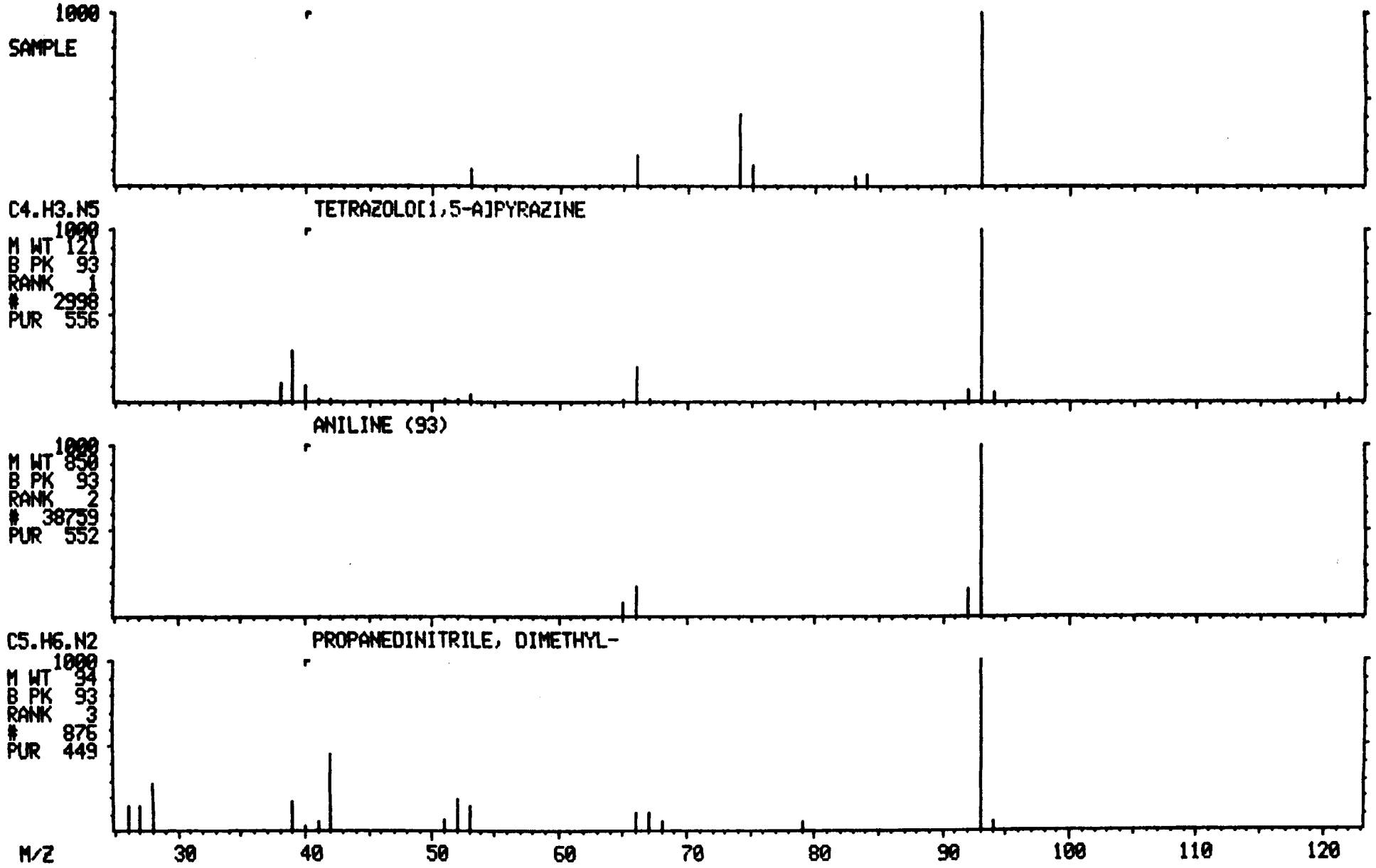


LIBRARY SEARCH
08/09/85 14:56:00 + 4:24
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 264
CALI: EQ299 # 2

BASE M/Z: 93
RIC: 805.

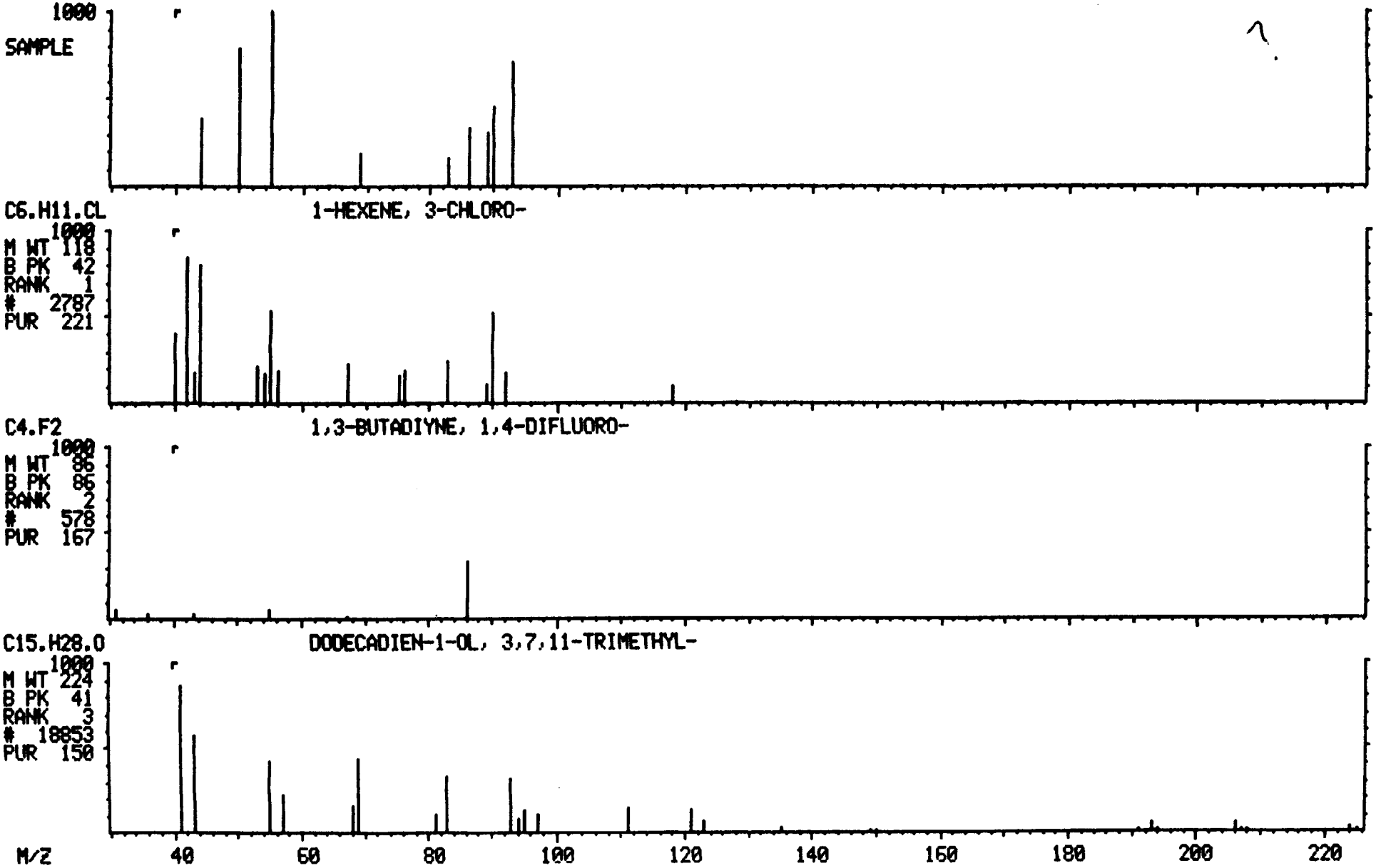
7



LIBRARY SEARCH
08/09/85 14:56:00 + 4:30
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 270
CALI: EQ299 # 2

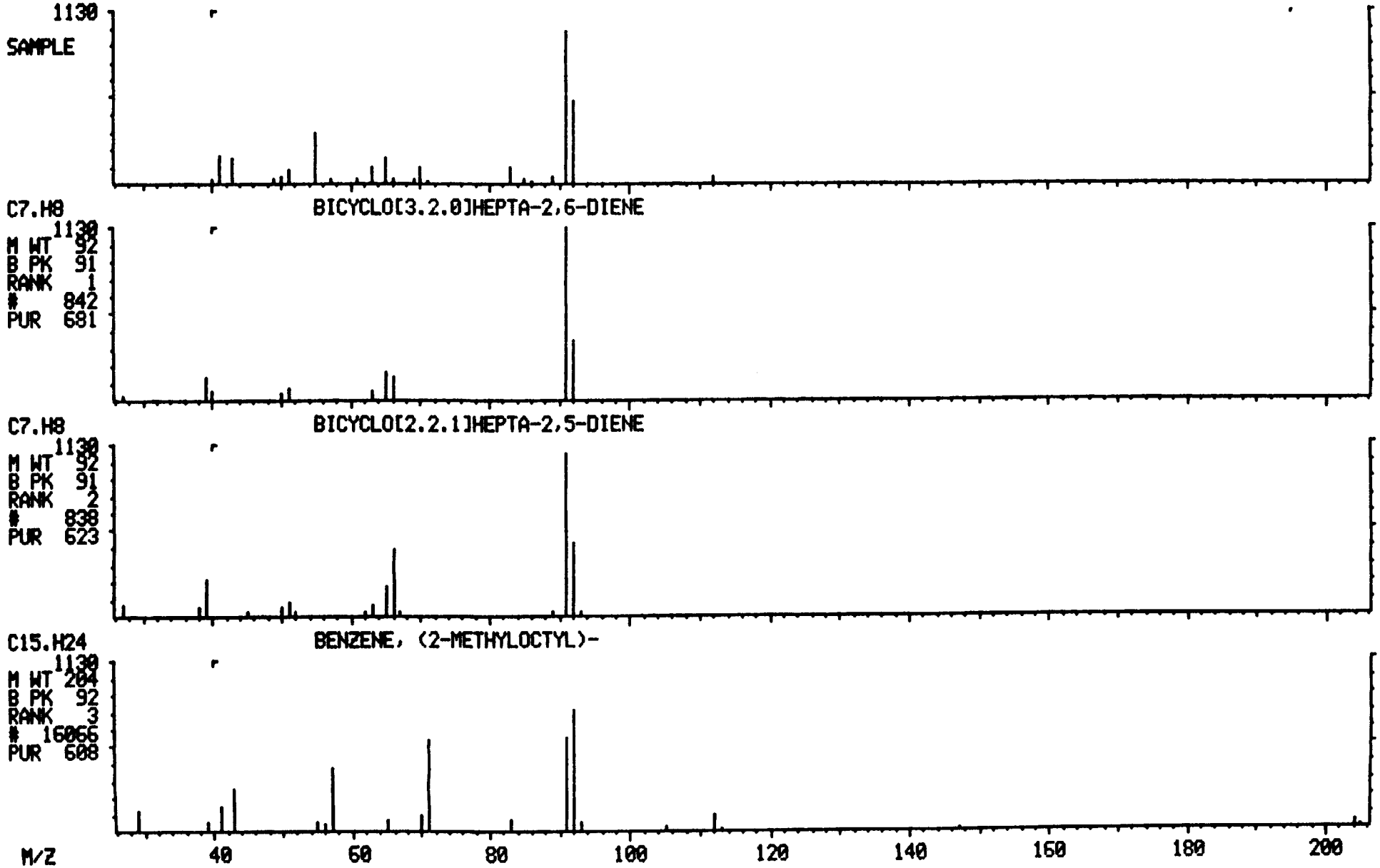
BASE M/Z: 55
RIC: 1857.



LIBRARY SEARCH
08/09/85 14:56:00 + 4:36
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 276
CALI: EQ299 # 2

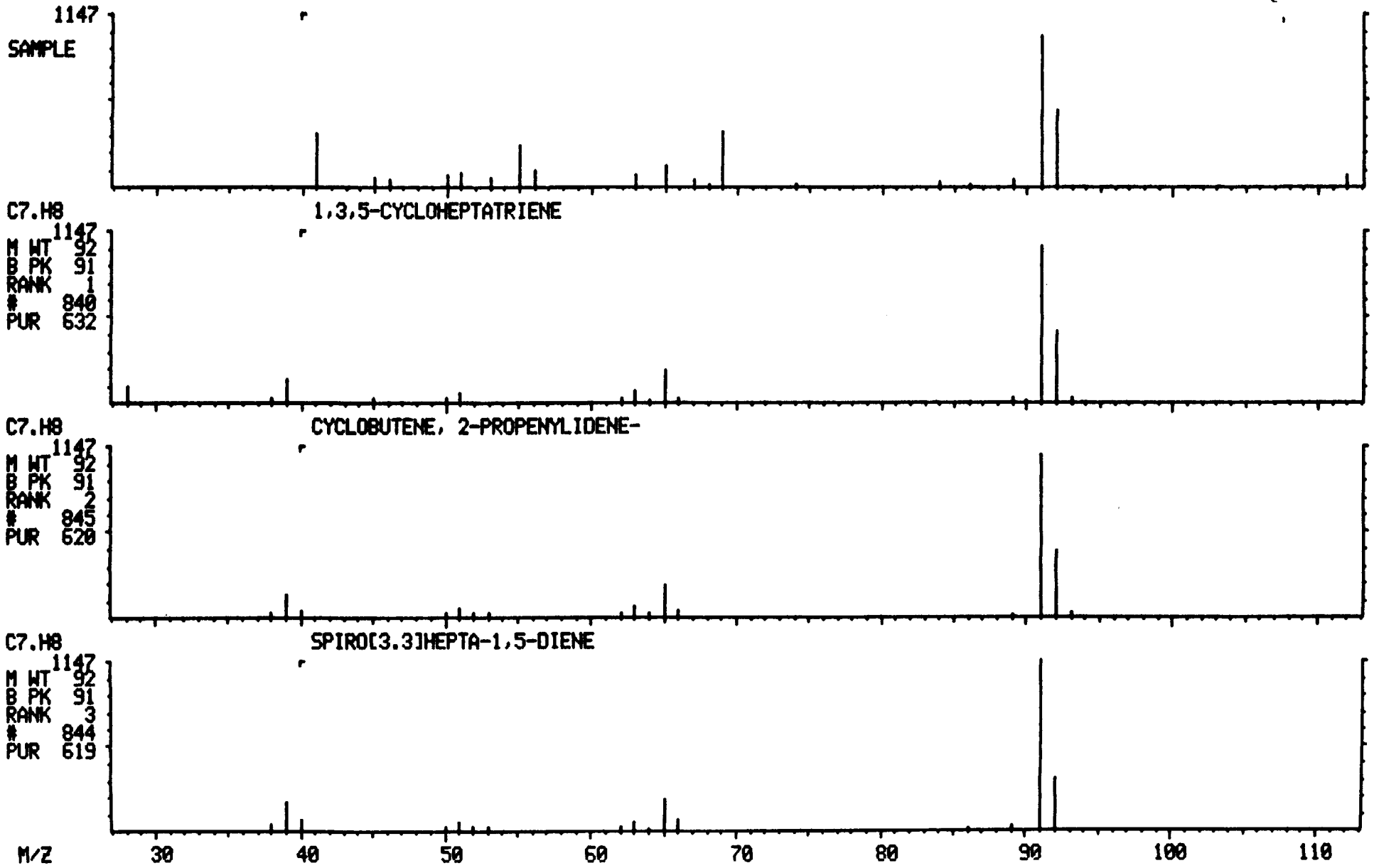
BASE M/Z: 91
RIC: 13519.



LIBRARY SEARCH
08/09/85 14:56:00 + 4:40
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 280
CALI: EQ299 # 2

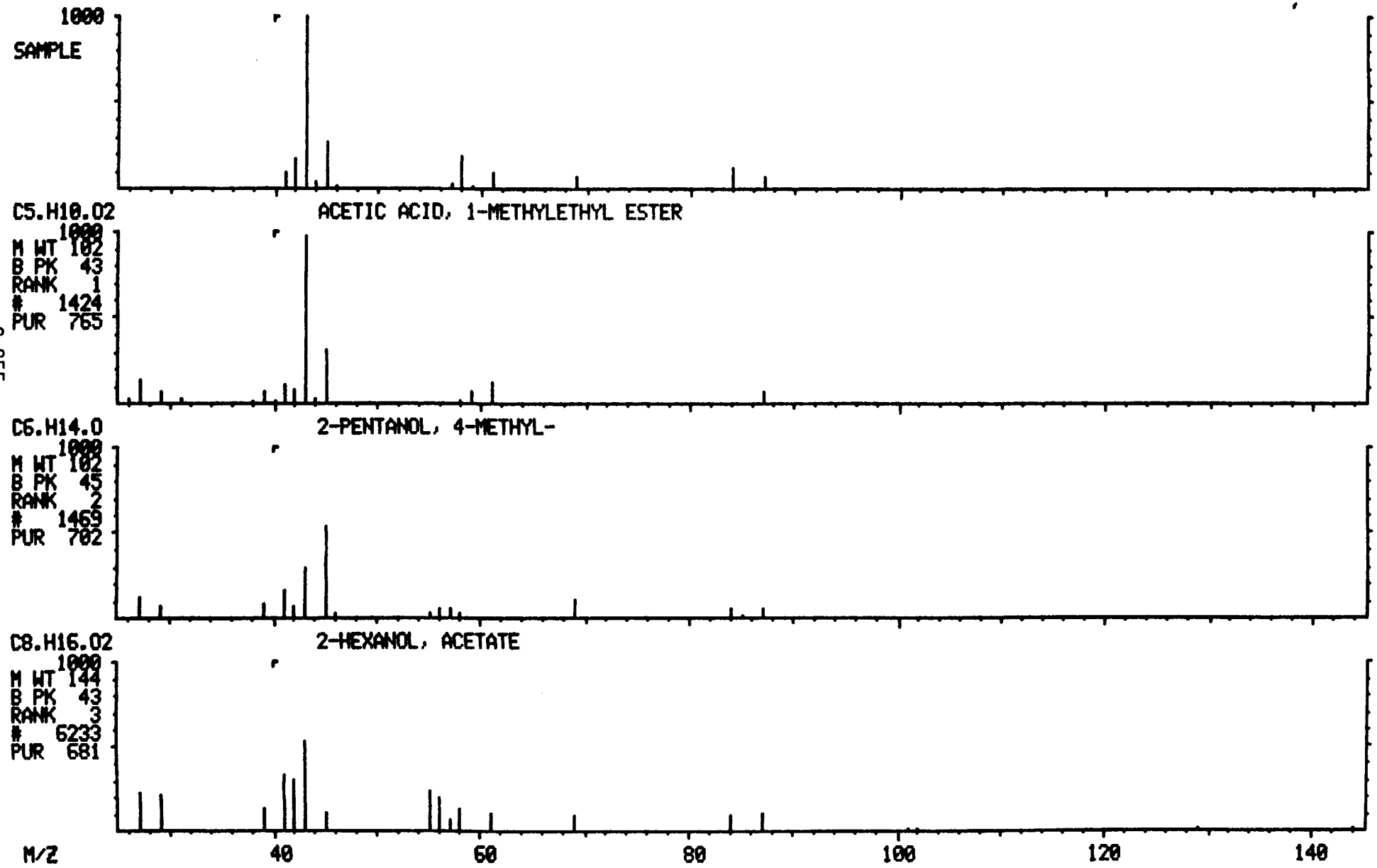
BASE M/Z: 91
RIC: 12815.



LIBRARY SEARCH
08/09/85 14:56:00 + 5:08
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 308
CALI: EQ299 # 2

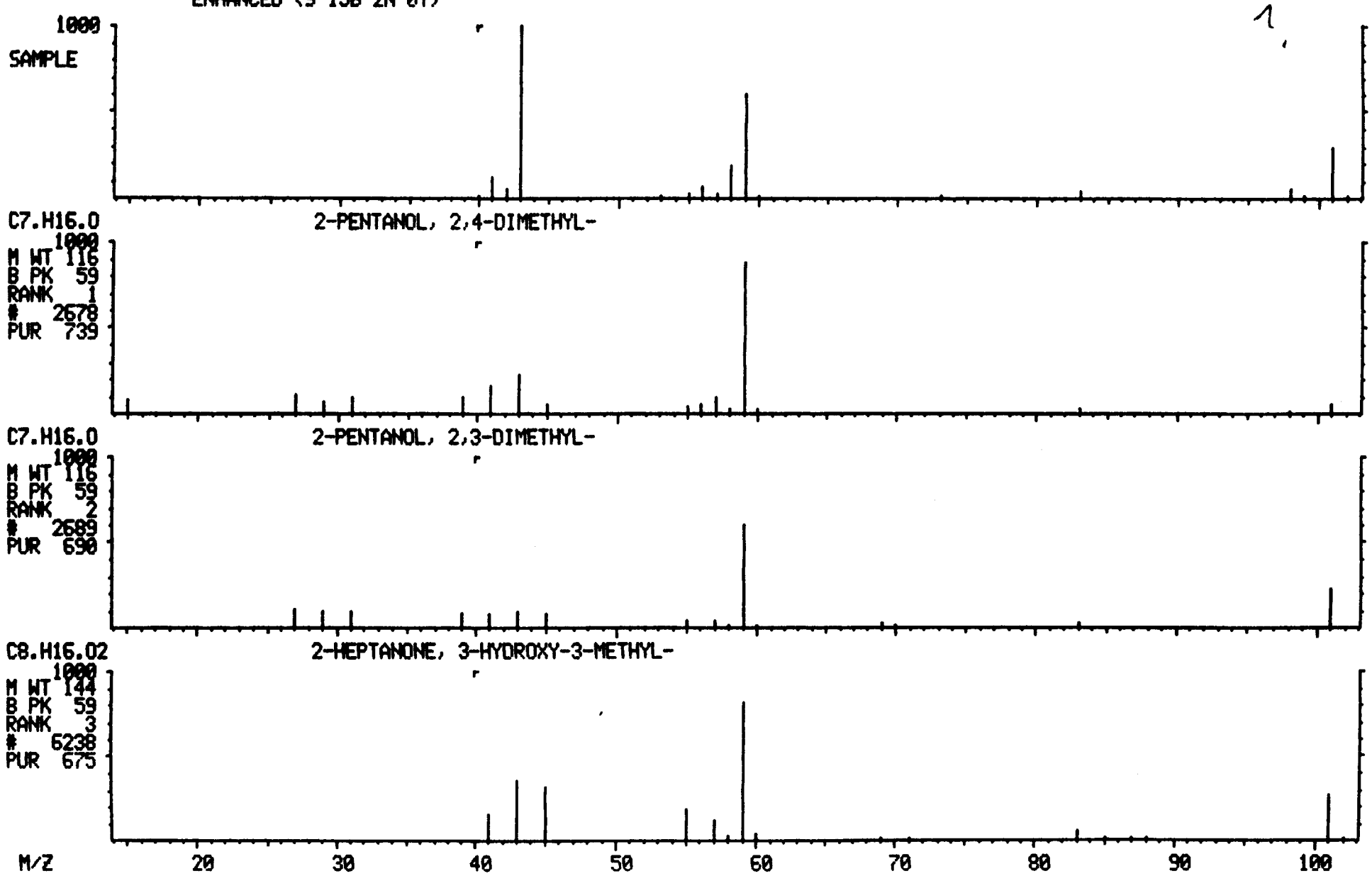
BASE M/Z: 43
RIC: 39039.



LIBRARY SEARCH
08/09/85 14:56:00 + 5:58
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 358
CALI: EQ299 # 2

BASE M/Z: 43
RIC: 165887.

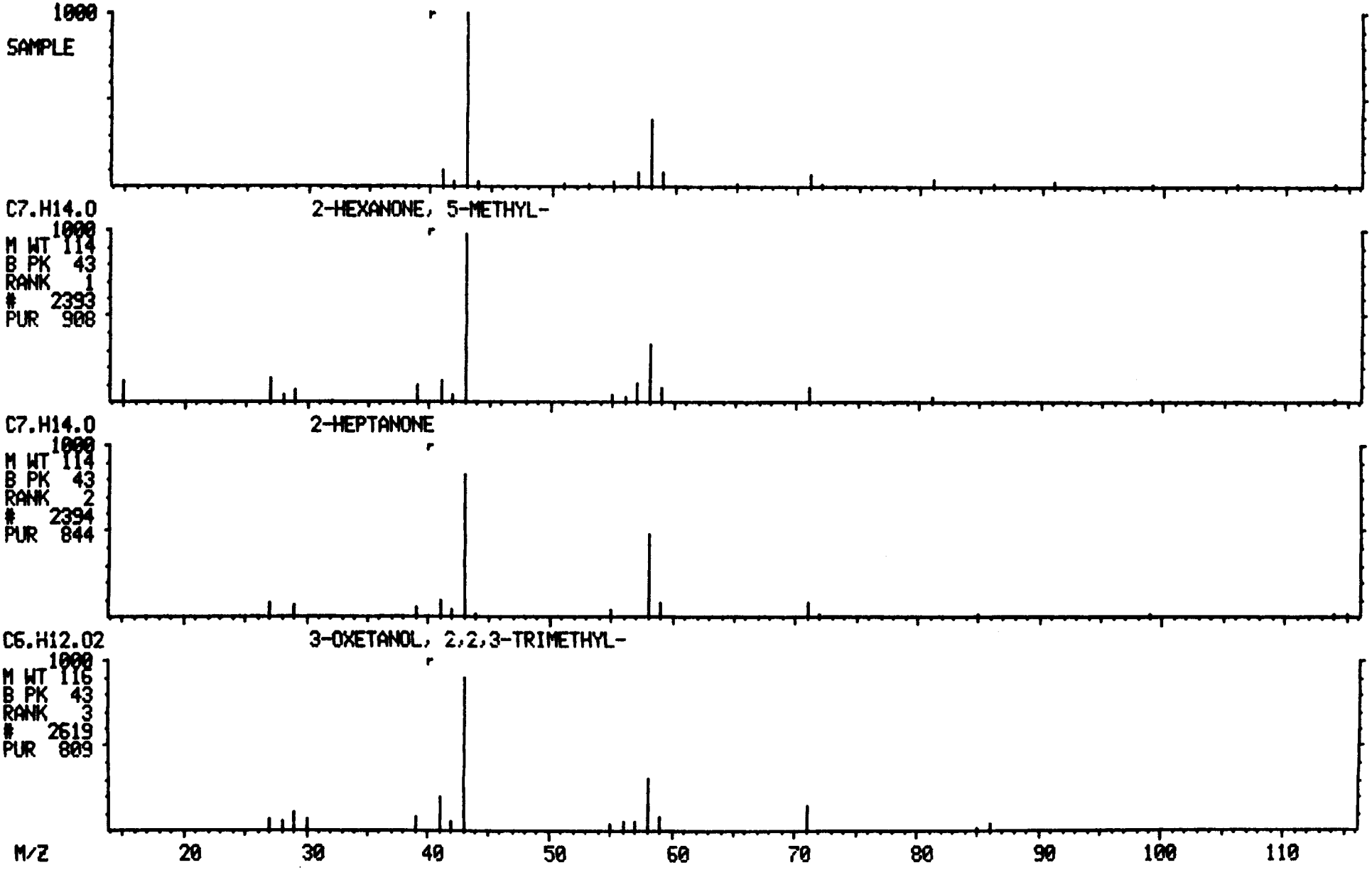


C-256

LIBRARY SEARCH
08/09/85 14:56:00 + 6:10
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 370
CALI: EQ299 # 2

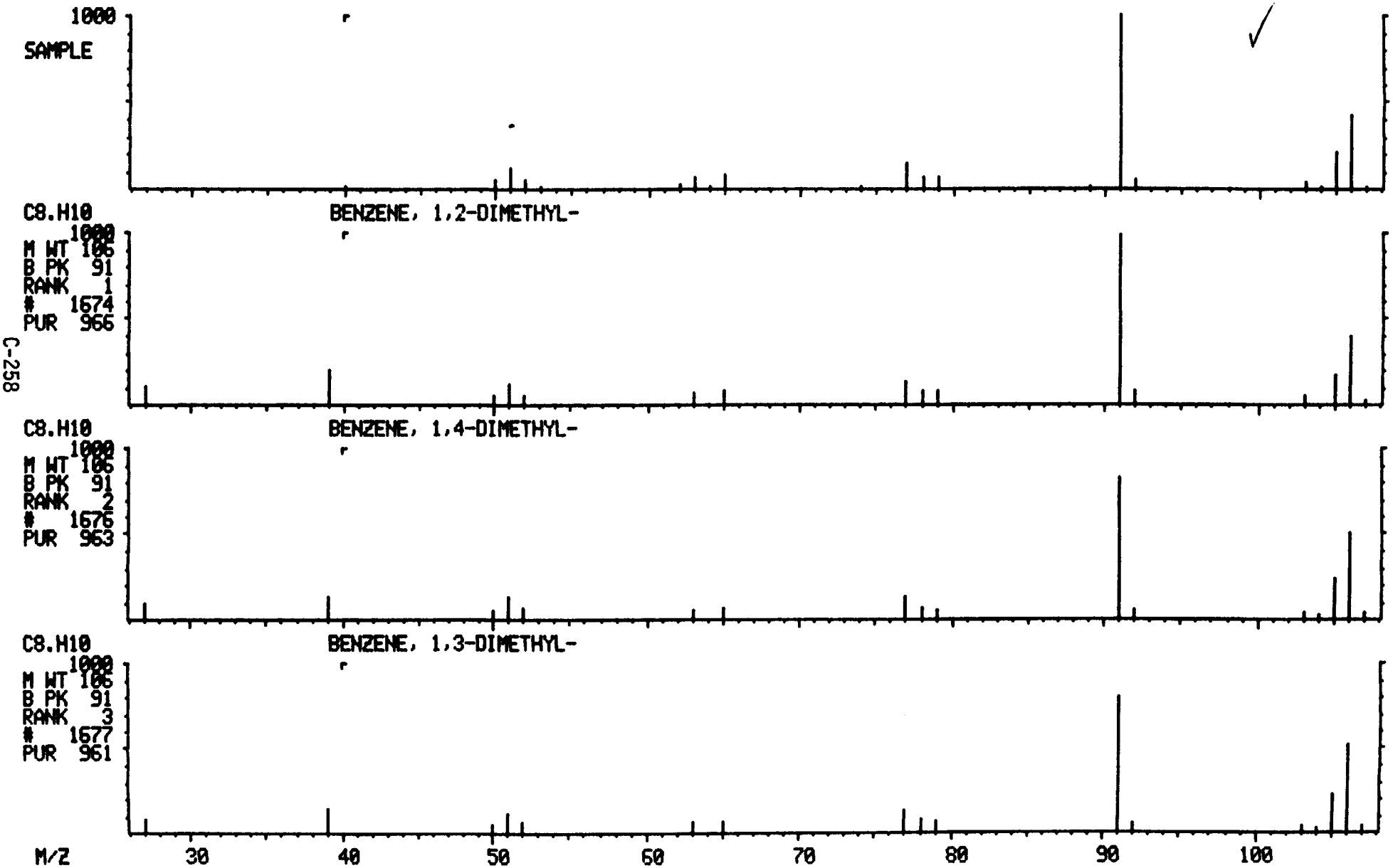
BASE M/Z: 43
RIC: 54015.



LIBRARY SEARCH
08/09/85 14:56:00 + 6:20
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 380
CALI: EQ299 # 2

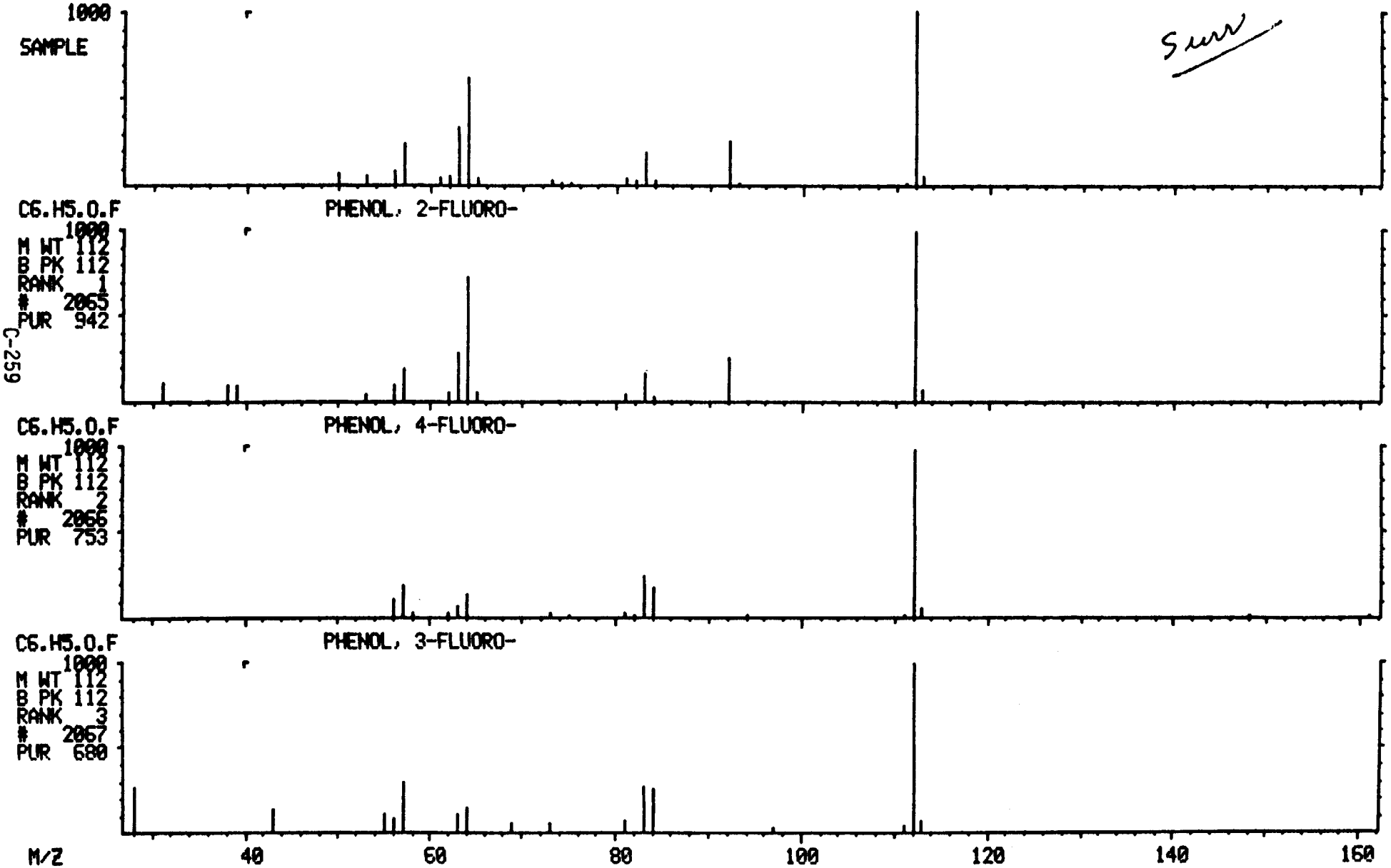
BASE M/Z: 91
RIC: 25183.



LIBRARY SEARCH
08/09/85 14:56:00 + 6:42
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 402
CALI: EQ299 # 2

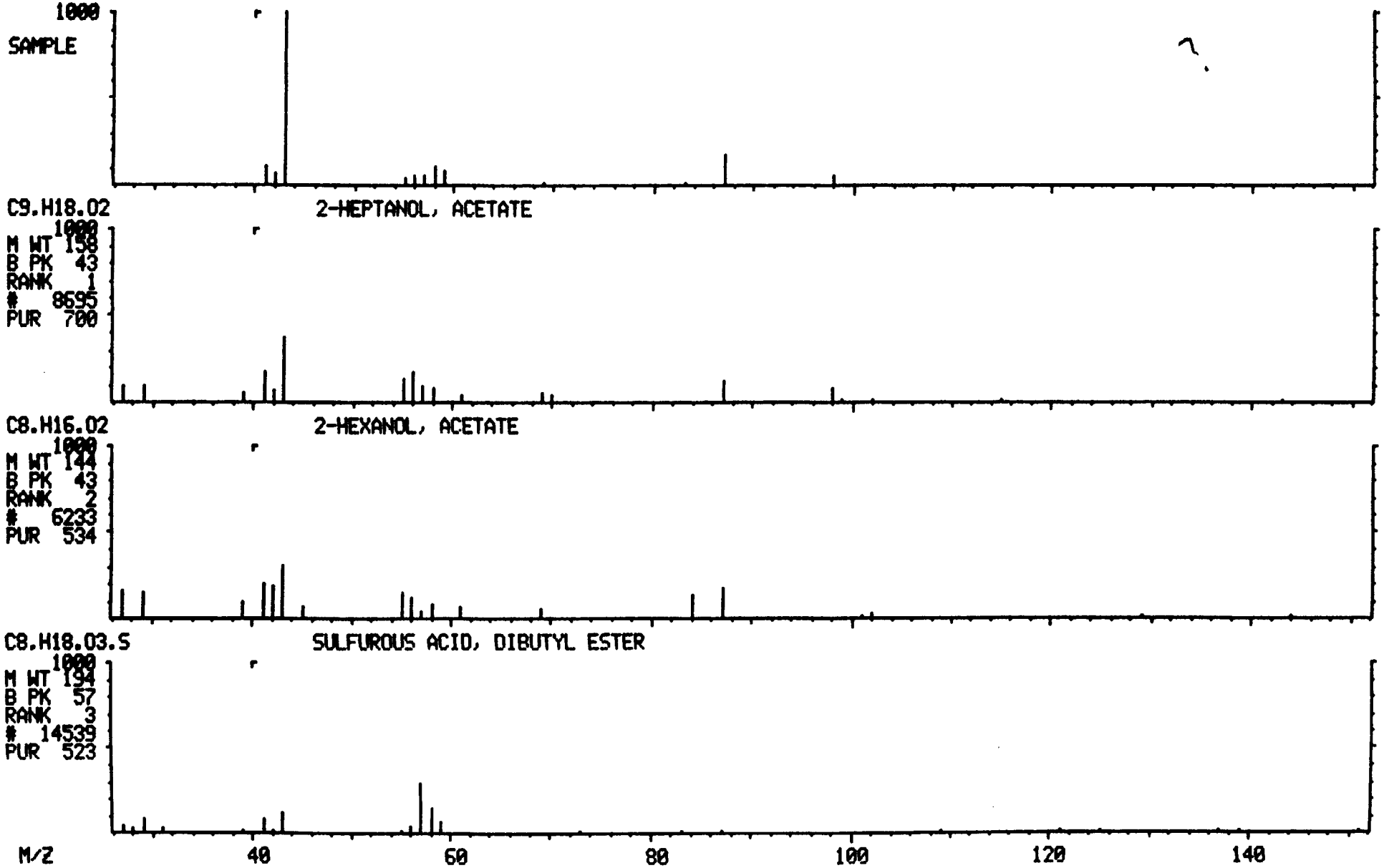
BASE M/Z: 112
RIC: 125951.



LIBRARY SEARCH
08/09/85 14:56:00 + 7:35
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 455
CALI: EQ299 # 2

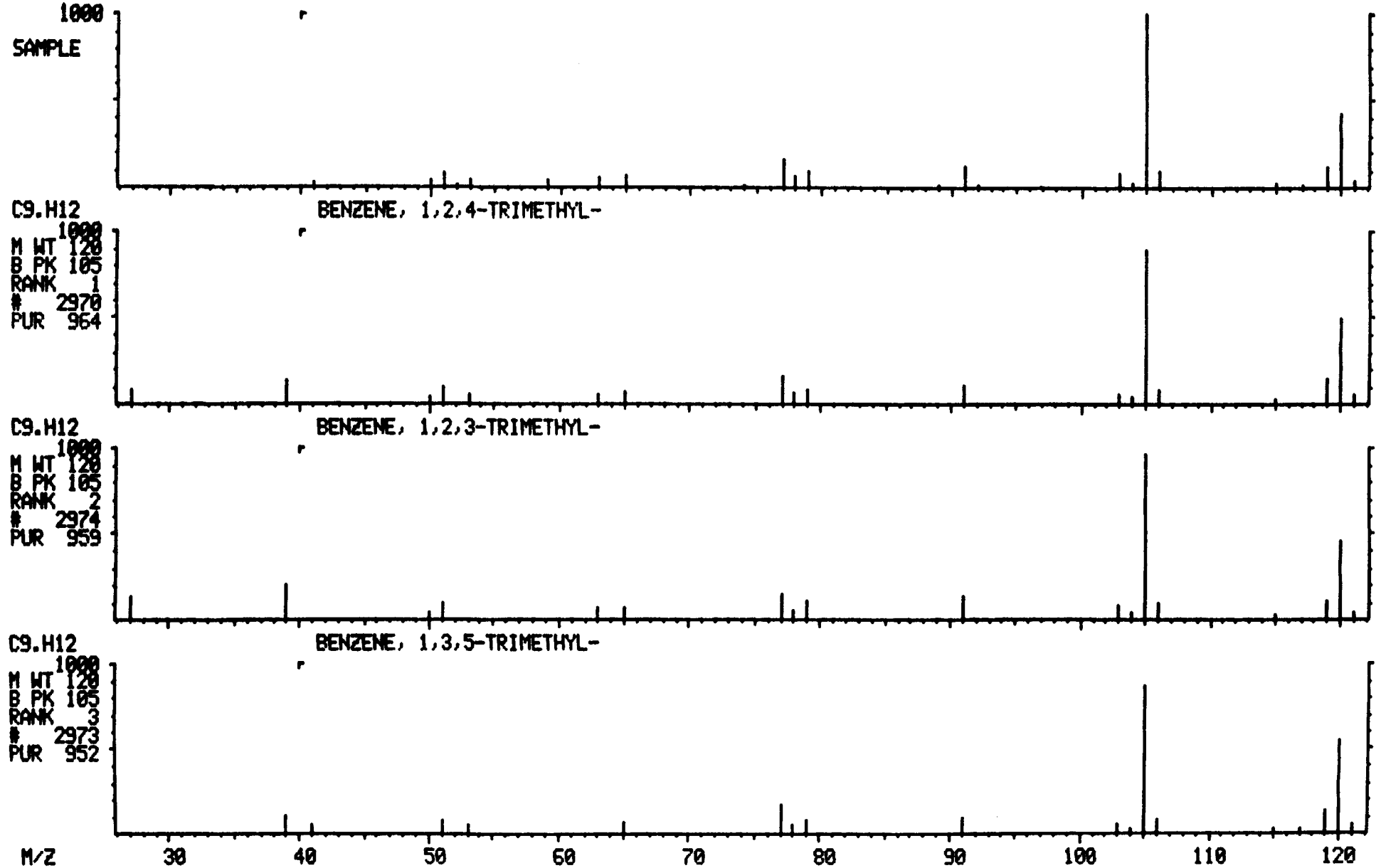
BASE M/Z: 43
RIC: 11311.



LIBRARY SEARCH
08/09/85 14:56:00 + 8:45
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 525
CALI: EQ299 # 2

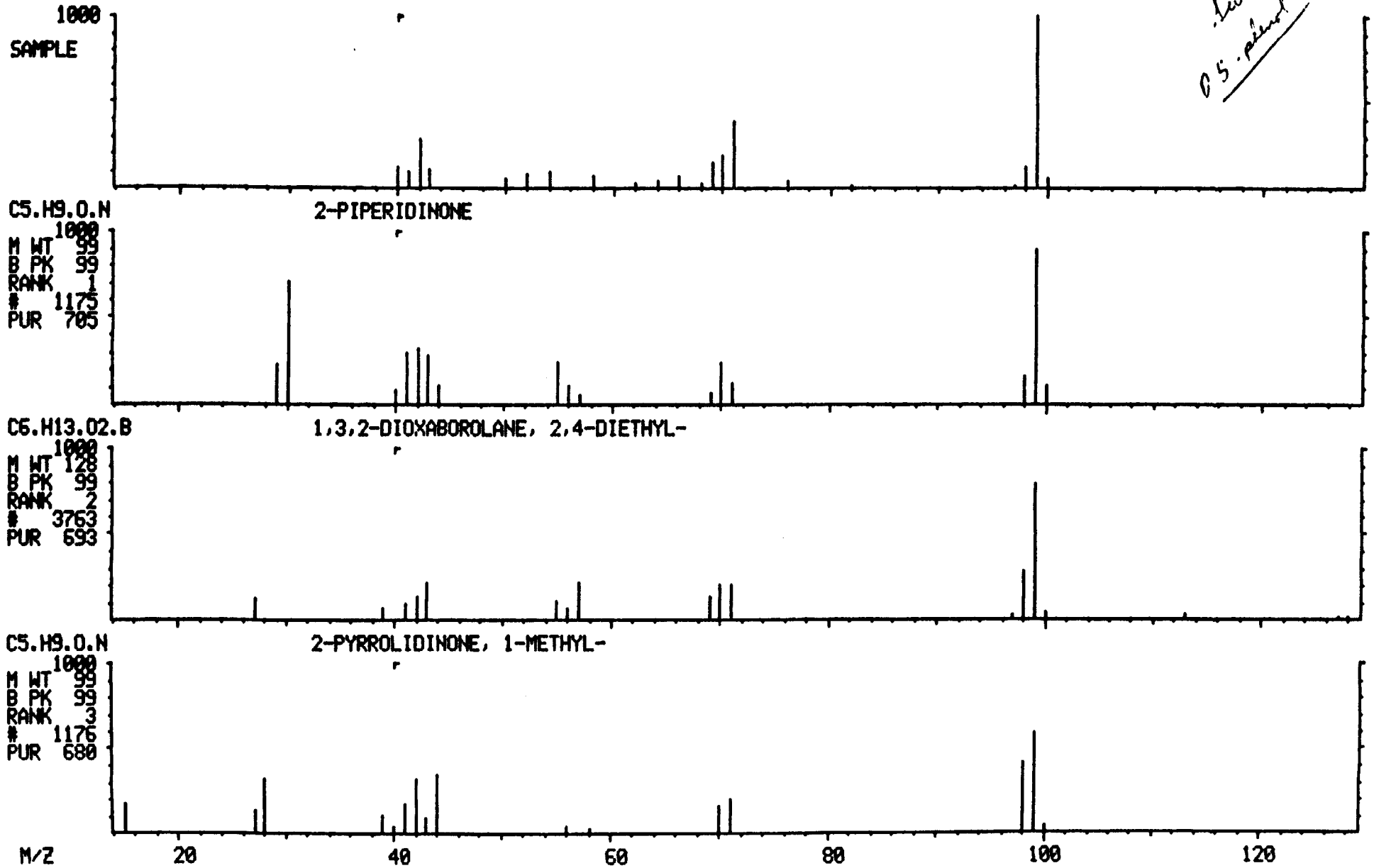
BASE M/Z: 105
RIC: 21311.



LIBRARY SEARCH
08/09/85 14:56:00 + 9:11
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 551
CALI: EQ299 # 2

BASE M/Z: 99
RIC: 154879.



LIBRARY SEARCH
08/09/85 14:56:00 + 9:41
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 581
CALI: EQ299 # 2

BASE M/Z: 150
RIC: 98559.

I.S.

SAMPLE

C9.H7.CL
BENZENE, 1-CHLORO-4-(1-PROPYNYL)-
M WT 150
B PK 150
RANK 1
7256
PUR 688

C12.H8
ACENAPHTHYLENE
M WT 152
B PK 152
RANK 2
7462
PUR 502

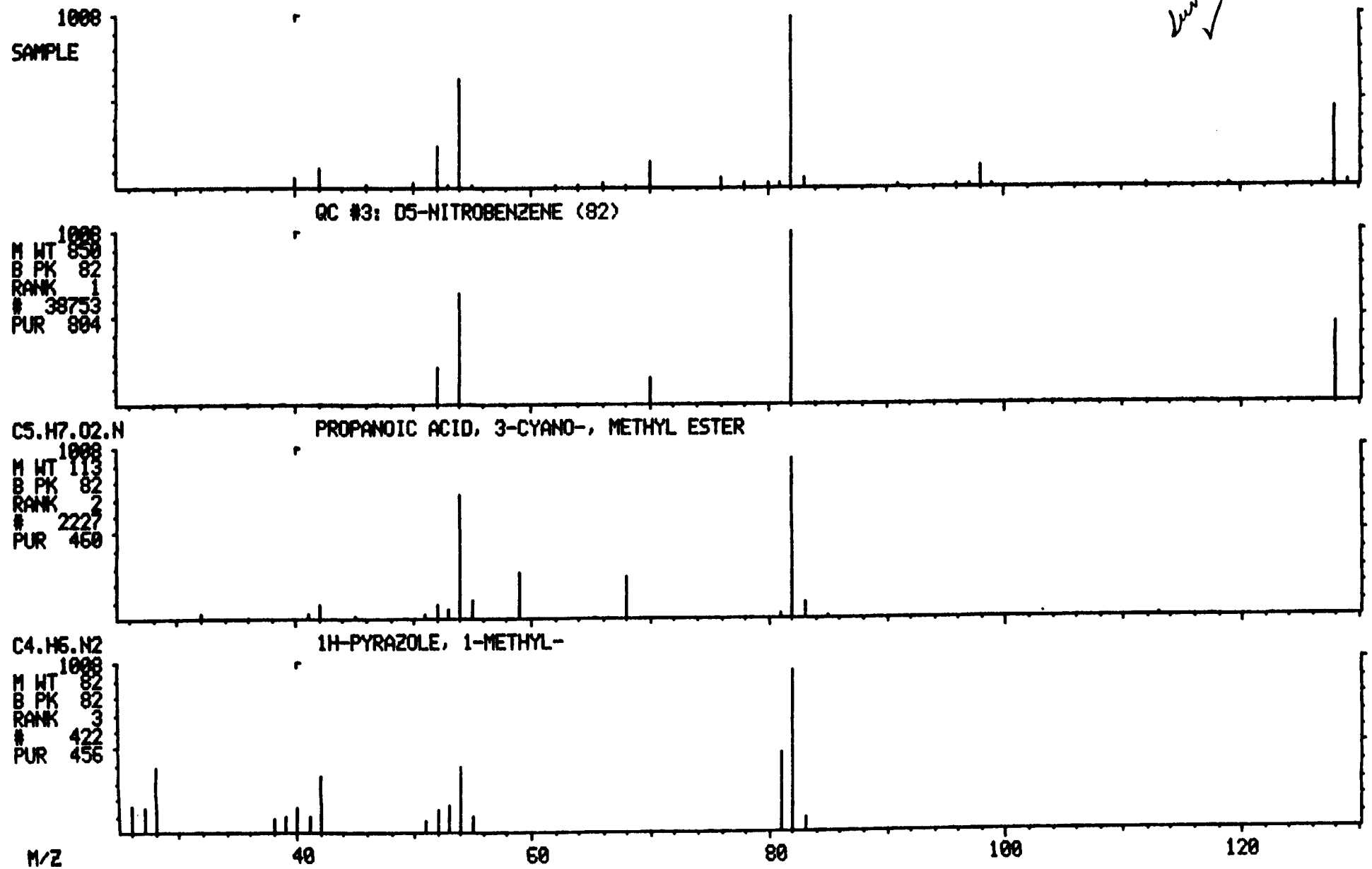
C12.H8
BIPHENYLENE
M WT 152
B PK 152
RANK 3
7463
PUR 441

M/Z 40 60 80 100 120 140

LIBRARY SEARCH
08/09/85 14:56:00 + 11:21
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 681
CALI: EQ299 # 2

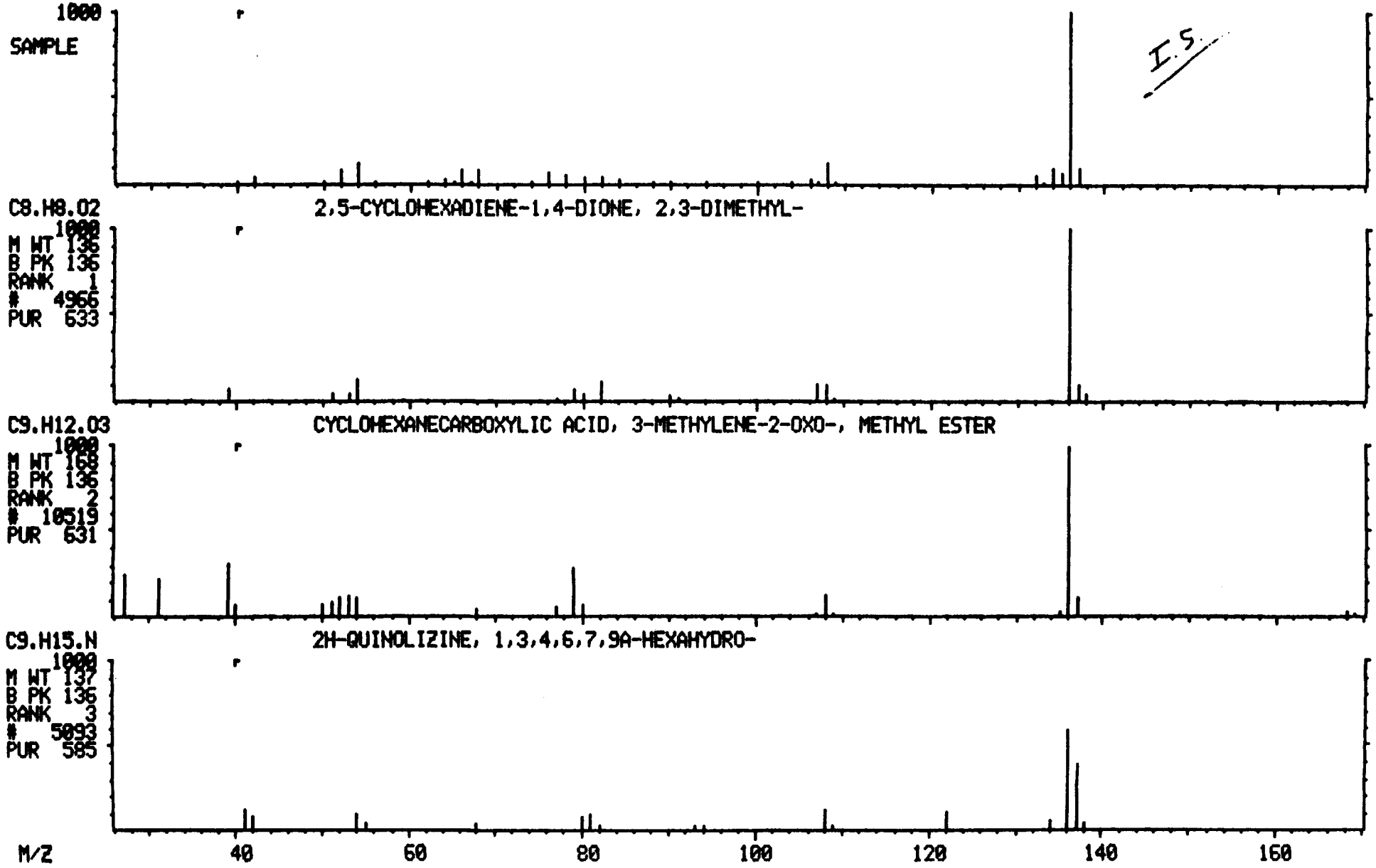
BASE M/Z: 82
RIC: 123007.



LIBRARY SEARCH
08/09/85 14:56:00 + 13:20
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 800
CALI: EQ299 # 2

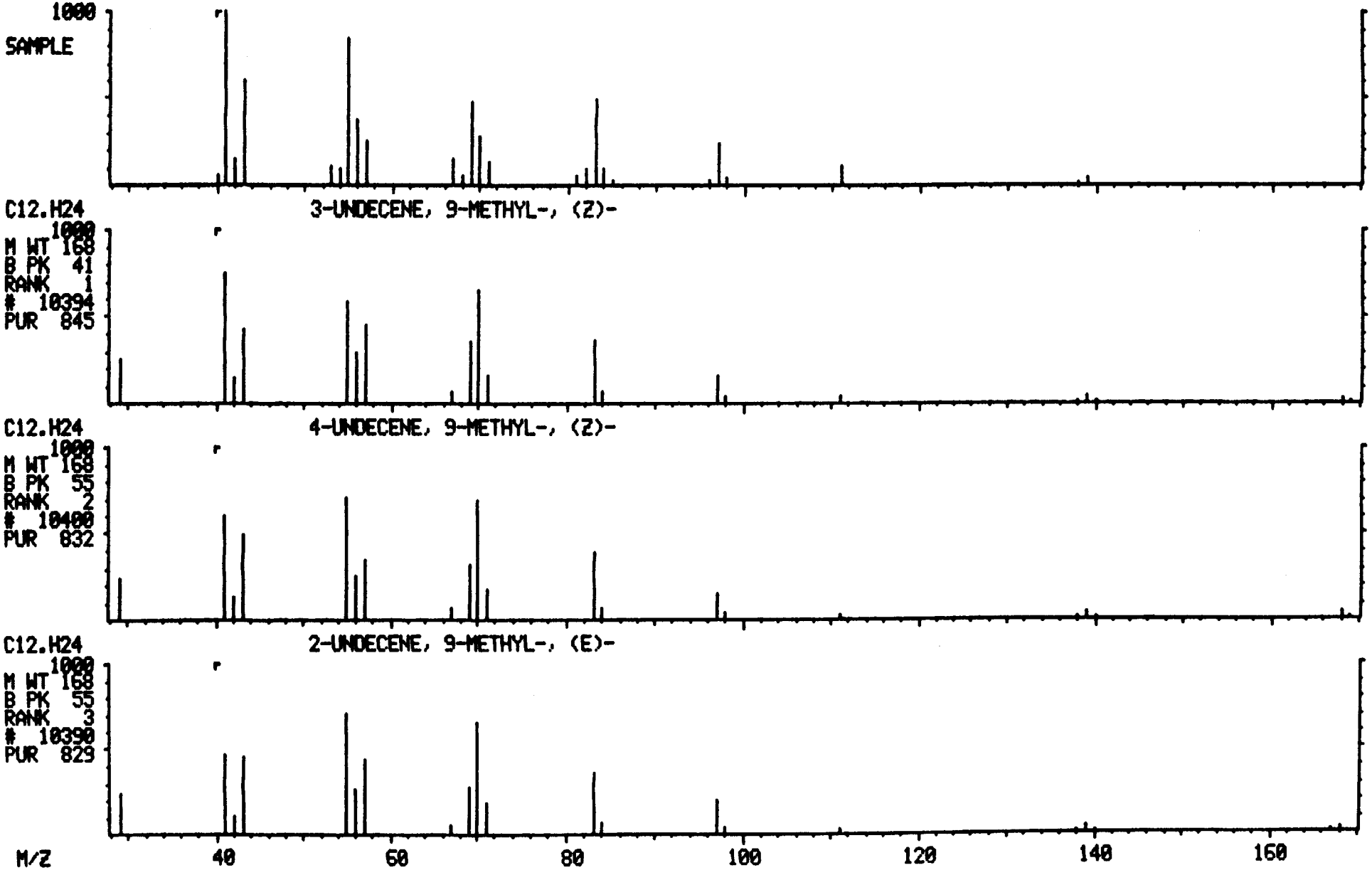
BASE M/Z: 136
RIC: 113151.



LIBRARY SEARCH
08/09/85 14:56:00 + 13:29
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 809
CALI: EQ299 # 2

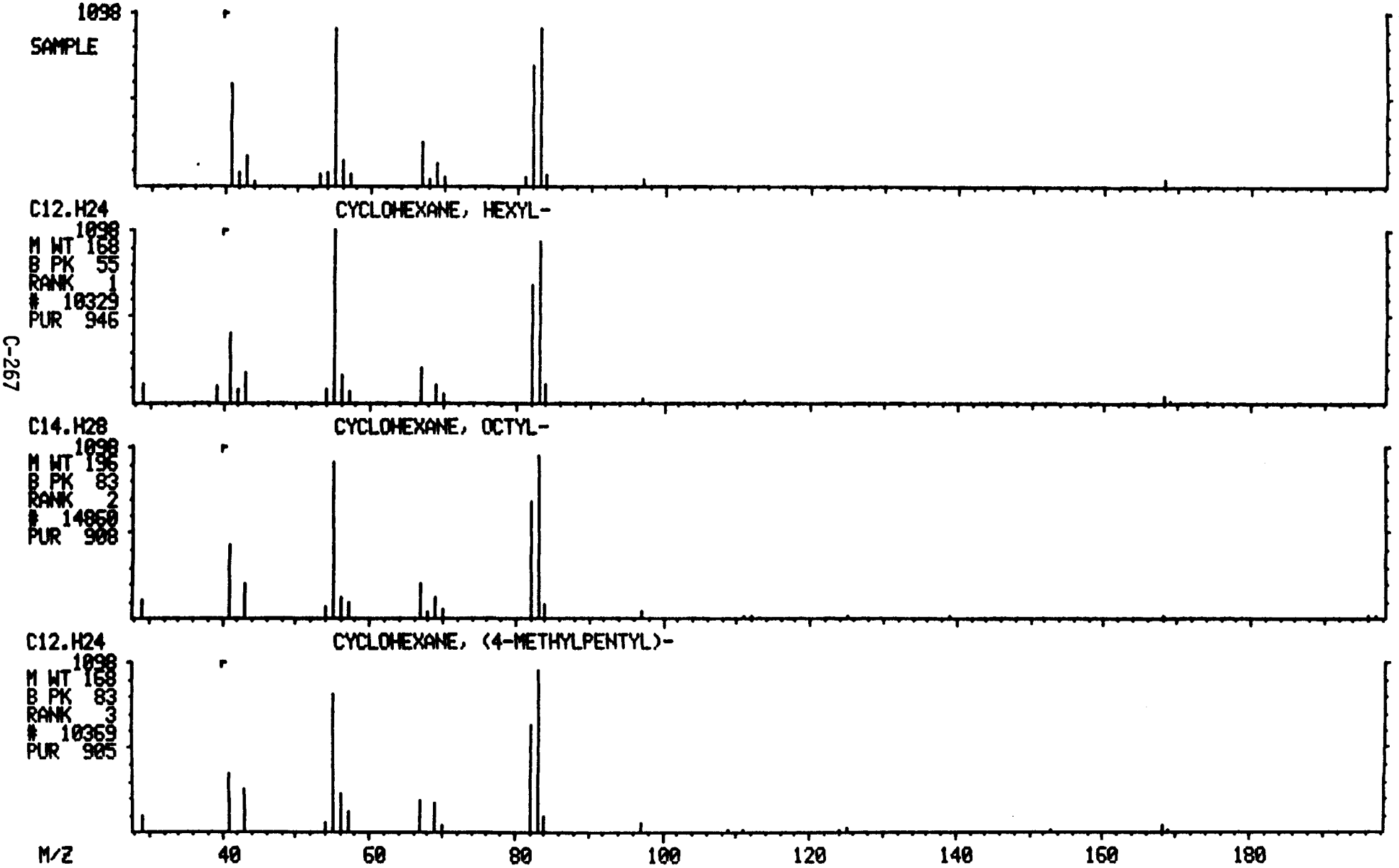
BASE M/Z: 41
RIC: 31231.



LIBRARY SEARCH
08/09/85 14:56:00 + 14:24
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 # 864
CALI: EQ299 # 2

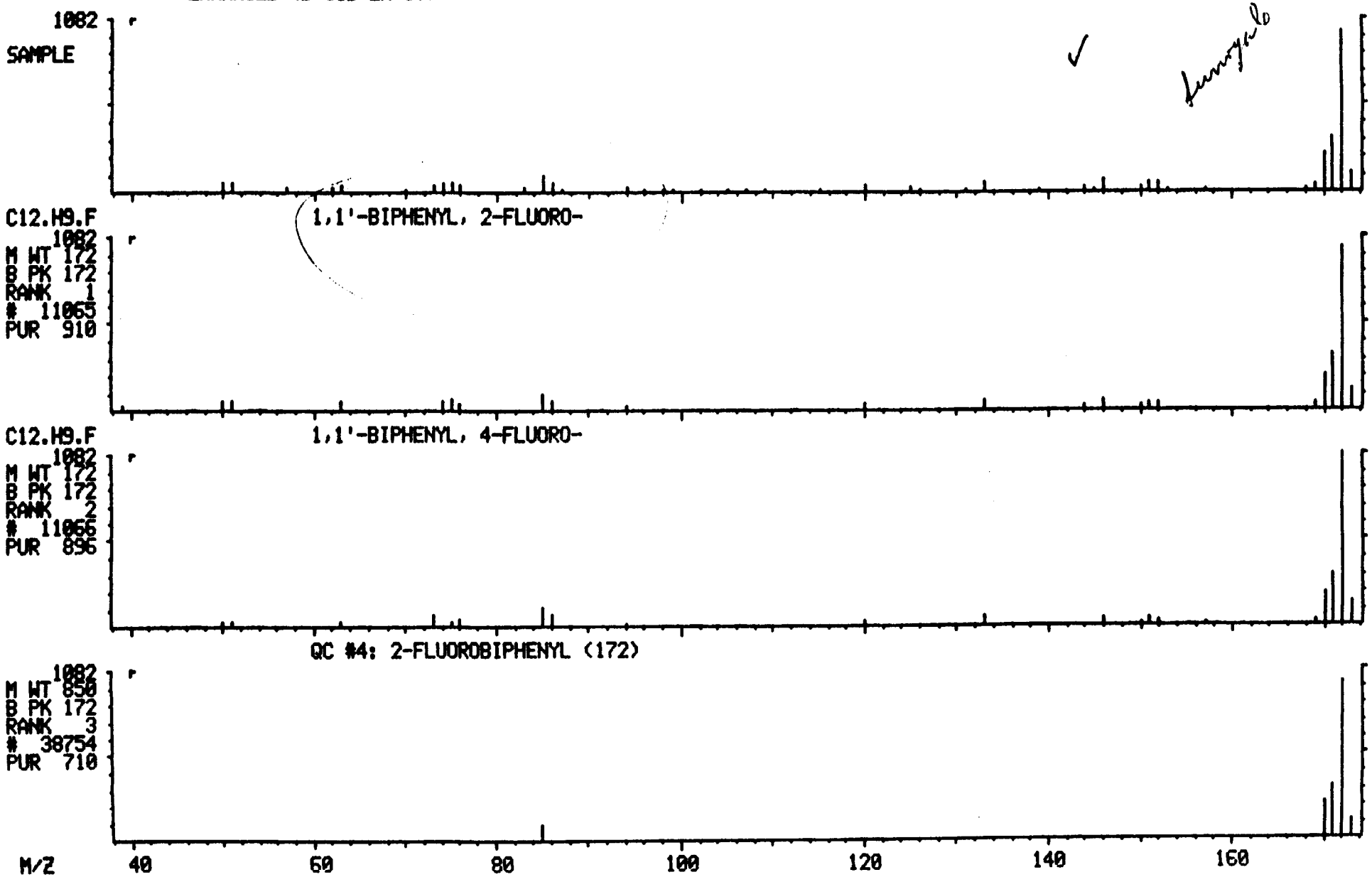
BASE M/Z: 83
RIC: 24575.



LIBRARY SEARCH
08/09/85 14:56:00 + 16:46
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1006
CALI: EQ299 # 2

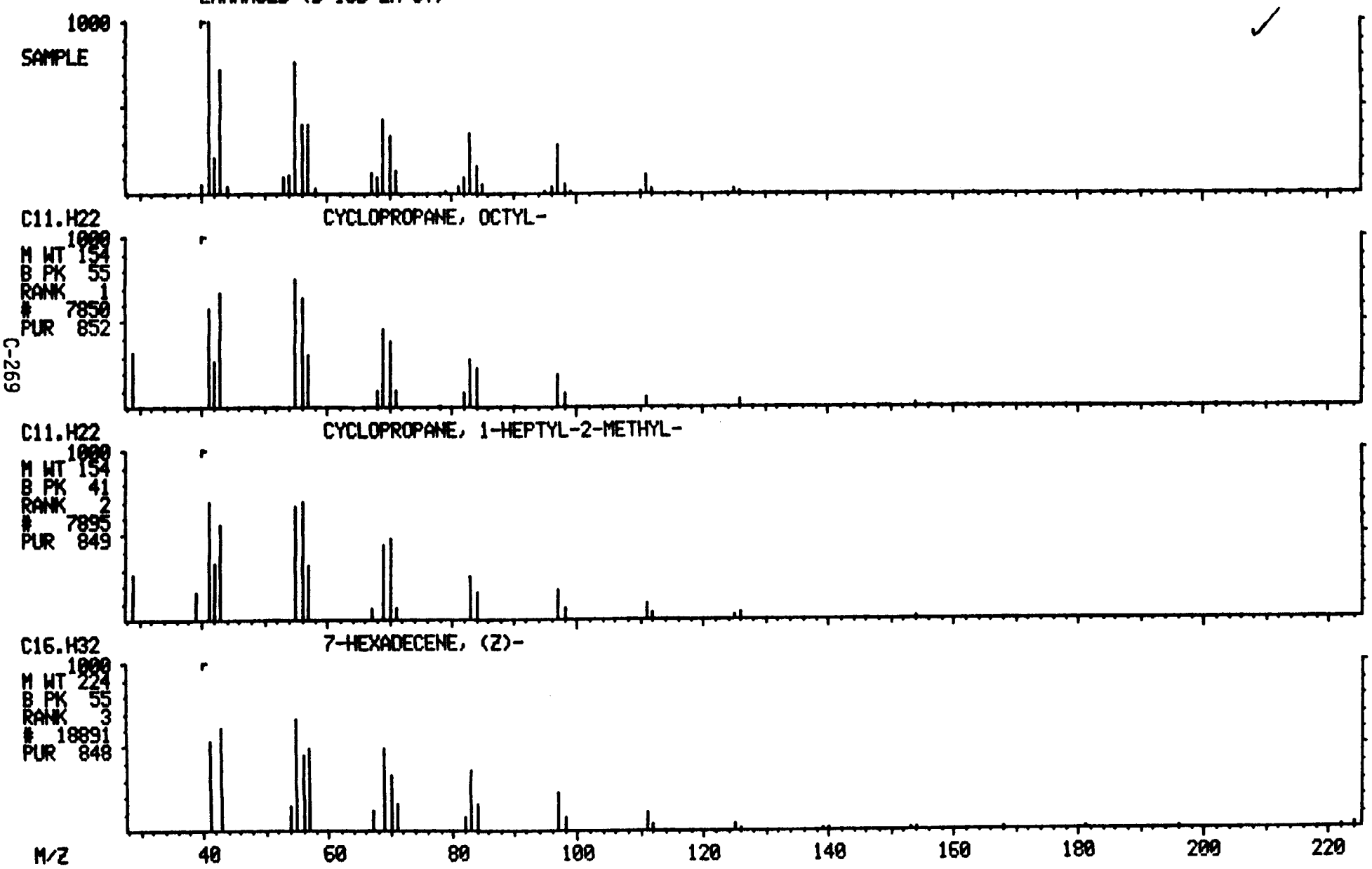
BASE M/Z: 172
RIC: 236799.



LIBRARY SEARCH
08/09/85 14:56:00 + 17:06
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1026
CALI: EQ299 # 2

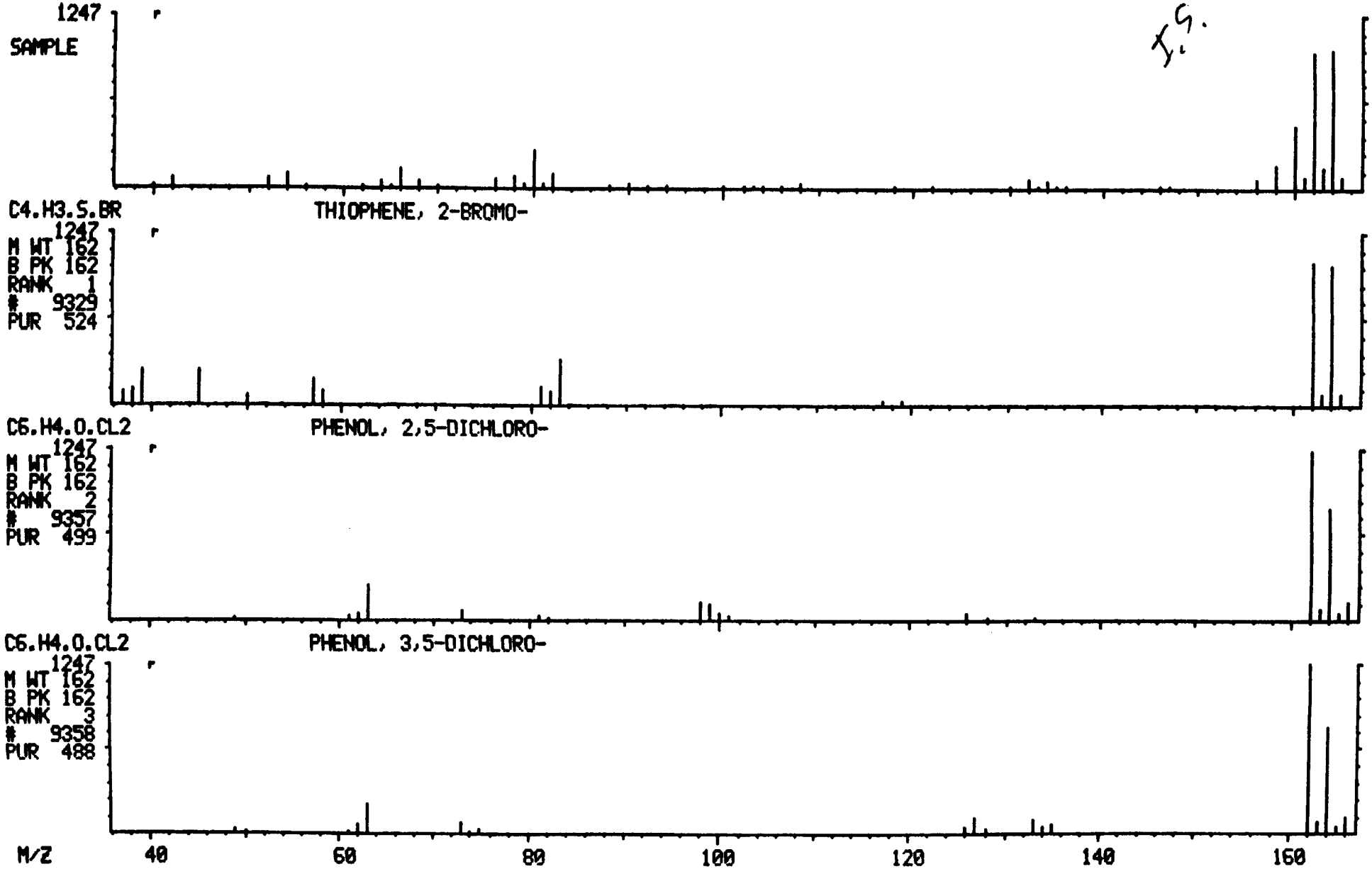
BASE M/Z: 41
RIC: 70655.

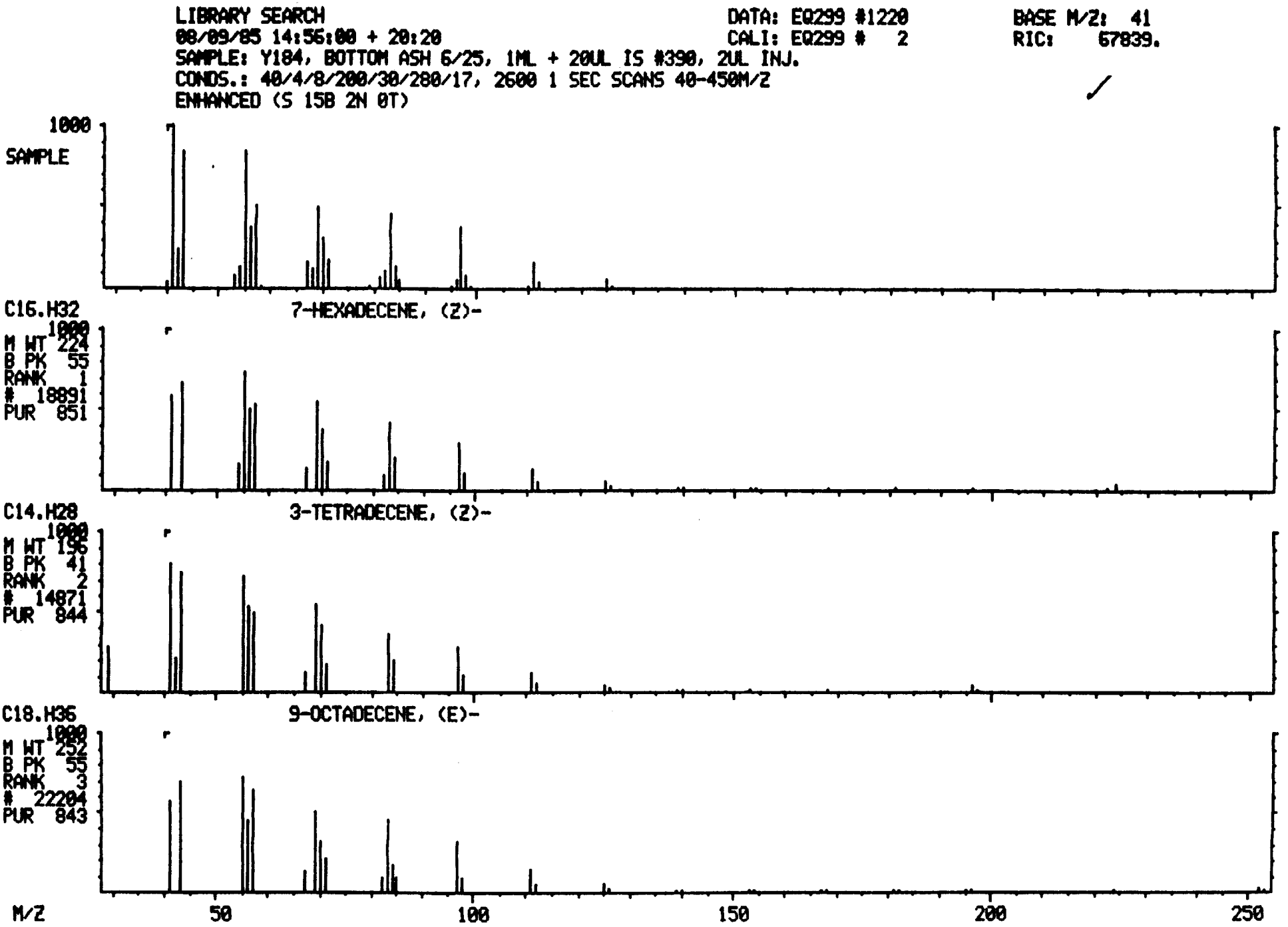


LIBRARY SEARCH
08/09/85 14:56:00 + 18:42
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1122
CALI: EQ299 # 2

BASE M/Z: 164
RIC: 124543.

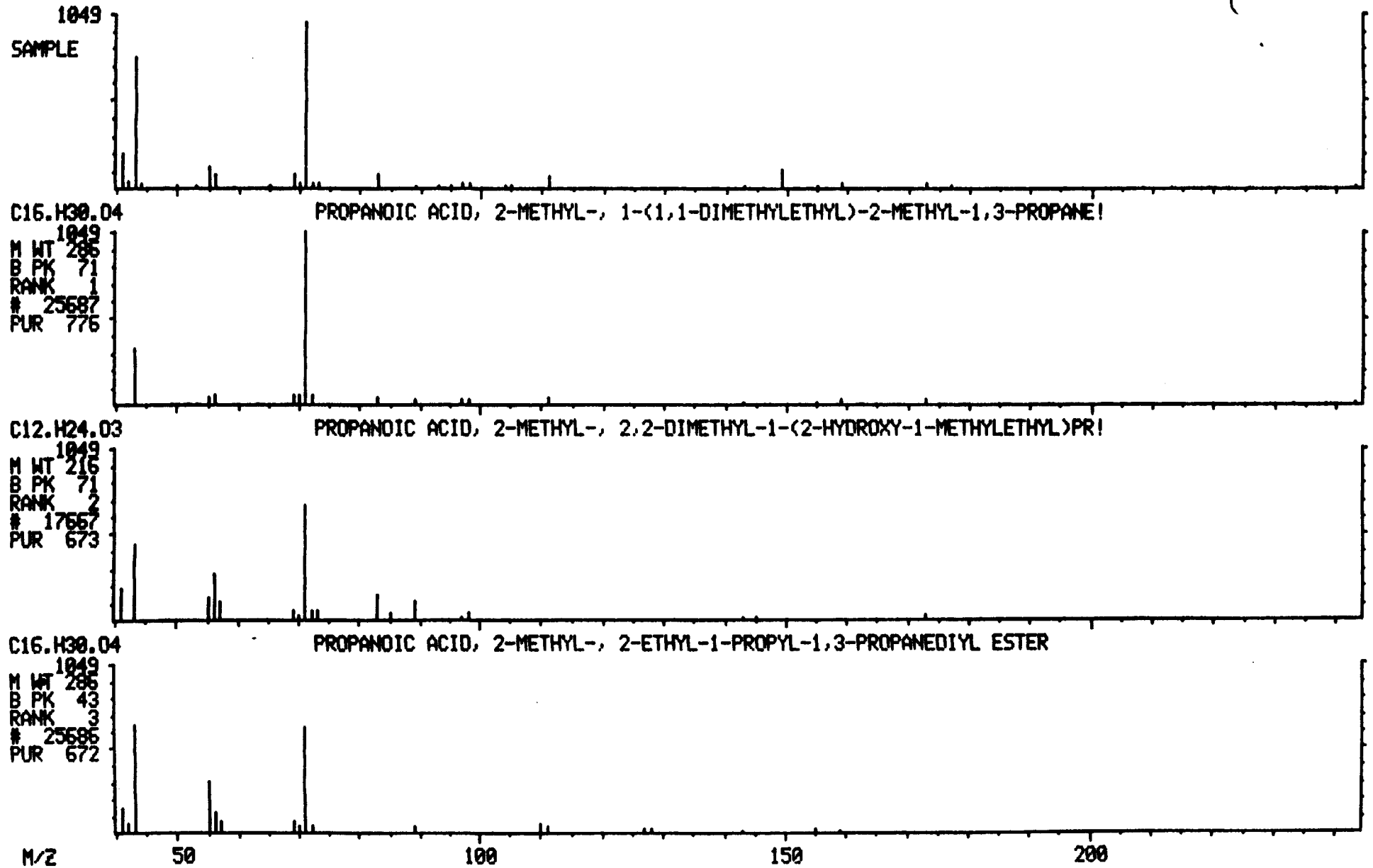



LIBRARY SEARCH
08/09/85 14:56:00 + 20:20
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ299 #1220
CALI: EQ299 # 2
BASE M/Z: 41
RIC: 67839.
1000
SAMPLE
C16.H32
7-HEXADECENE, (Z)-
M WT 224
B PK 55
RANK 1
18891
PUR 851
C14.H28
3-TETRADECENE, (Z)-
M WT 196
B PK 41
RANK 2
14871
PUR 844
C18.H36
9-OCTADECENE, (E)-
M WT 252
B PK 55
RANK 3
22204
PUR 843
M/Z
50
100
150
200
250

LIBRARY SEARCH
08/09/85 14:56:00 + 20:29
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1229
CALI: EQ299 # 2

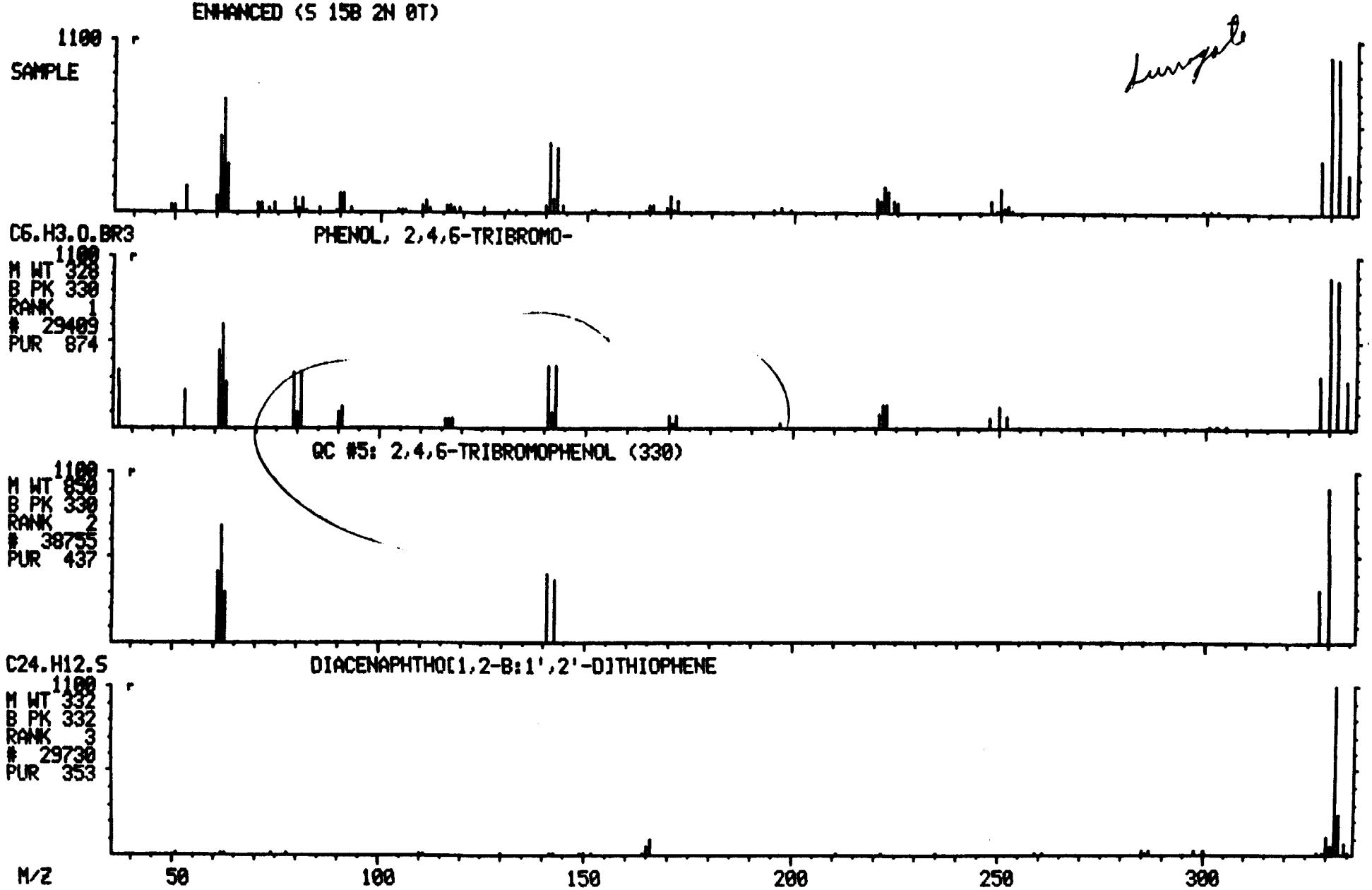
BASE M/Z: 71
RIC: 41023.



LIBRARY SEARCH
08/09/85 14:56:00 + 21:13
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1273
CALI: EQ299 # 2

BASE M/Z: 330
RIC: 120639.



LIBRARY SEARCH
08/09/85 14:56:00 + 23:15
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1395
CALI: EQ299 # 2

BASE M/Z: 188
RIC: 143359.

4.9

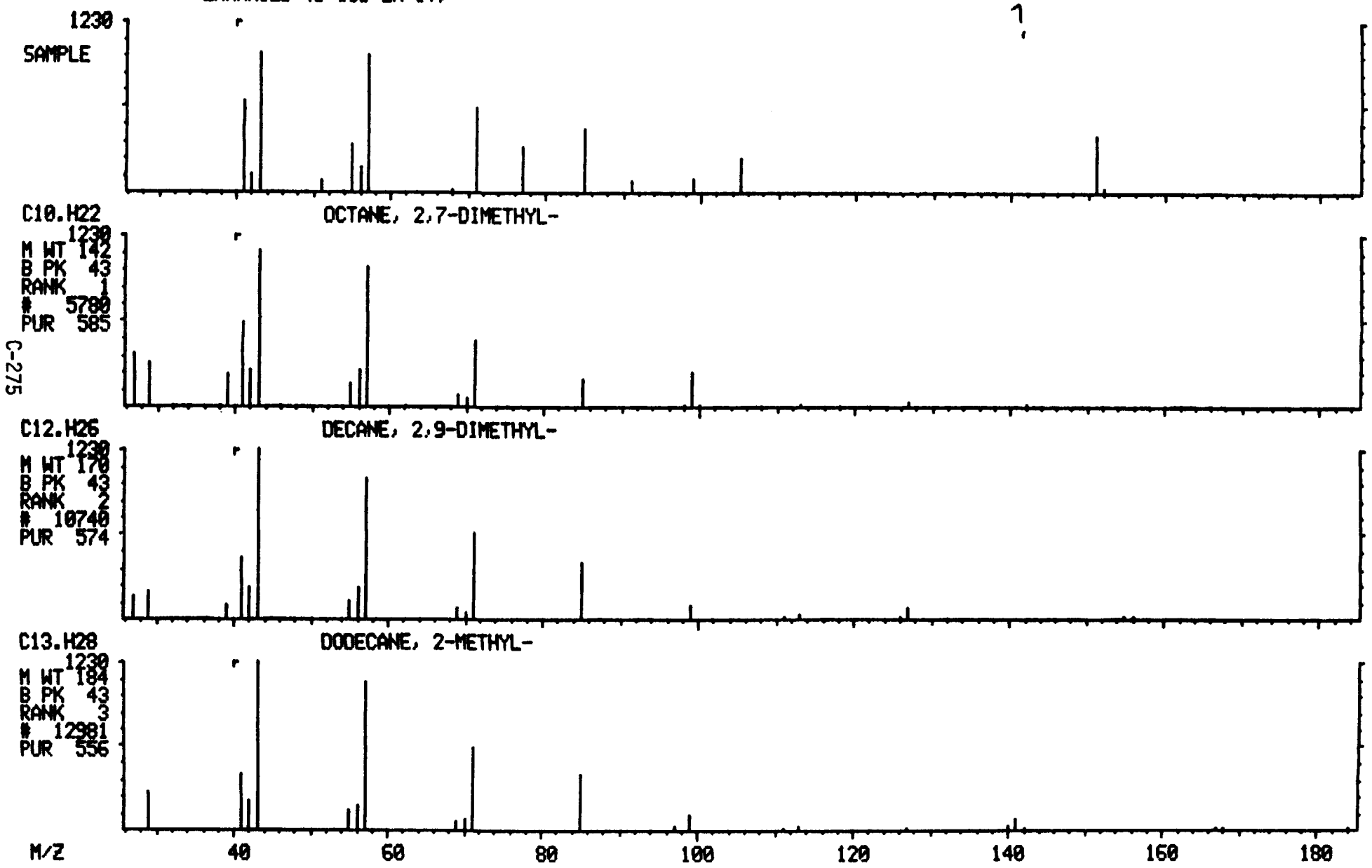
1000
SAMPLE

C12.H18.N2 PHENAZINE, DECAHYDRO-
1000
M WT 190
B PK 188
RANK 1
13828
PUR 538

C12.H16.N2 CYCLOHEXANONE, PHENYLHYDRAZONE
1000
M WT 188
B PK 188
RANK 2
13568
PUR 504

C11.H12.O.N2 3H-PYRAZOL-3-ONE, 2,4-DIHYDRO-4,4-DIMETHYL-2-PHENYL-
1000
M WT 188
B PK 188
RANK 3
13526
PUR 497

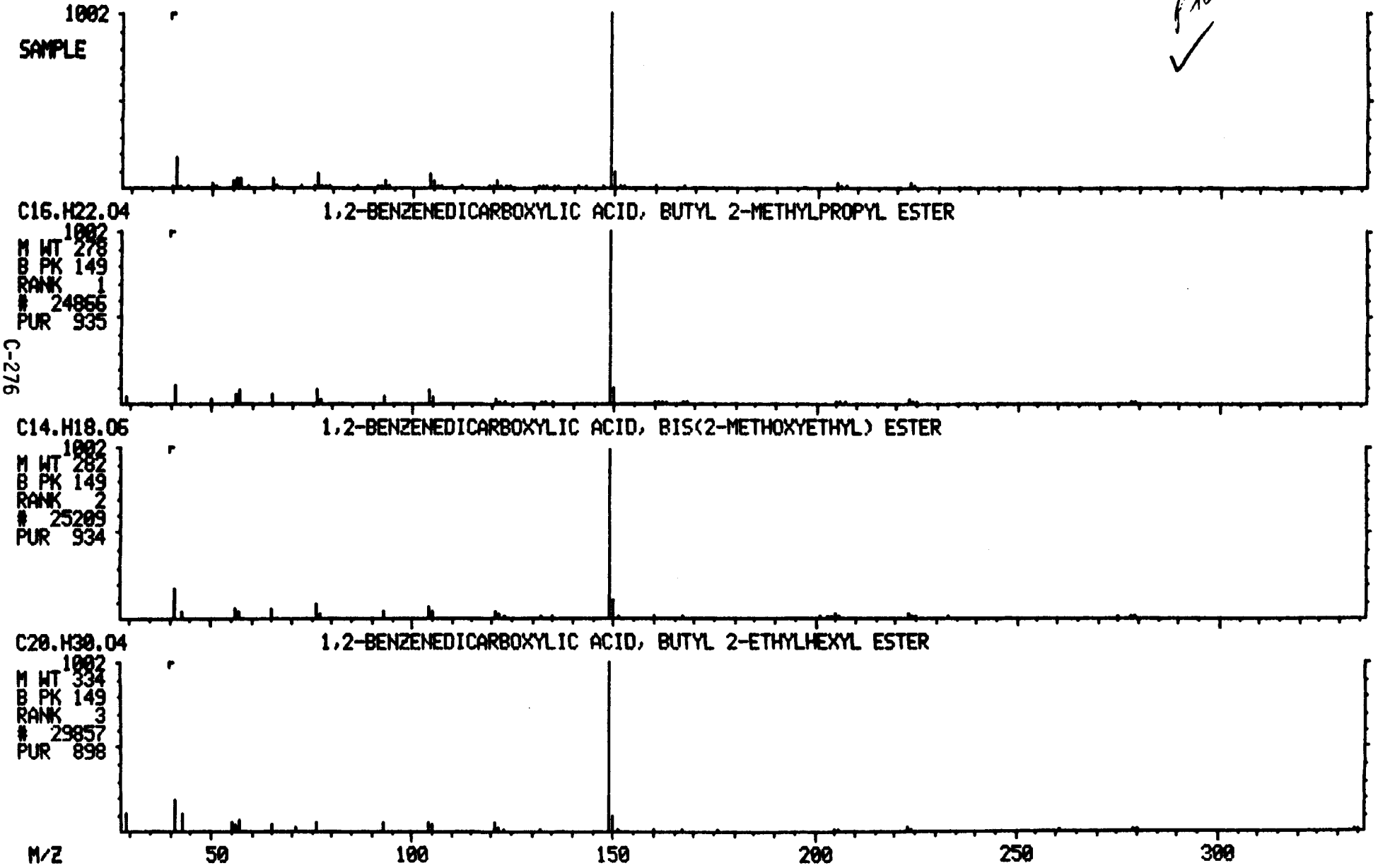
M/Z 40 60 80 100 120 140 160 180


LIBRARY SEARCH
08/09/85 14:56:00 + 24:30
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ299 #1470
CALI: EQ299 # 2
BASE M/Z: 43
RIC: 10687.
1230
SAMPLE
C10.H22
OCTANE, 2,7-DIMETHYL-
M WT 142
B PK 43
RANK 1
5780
PUR 585
C12.H26
DECANE, 2,9-DIMETHYL-
M WT 170
B PK 43
RANK 2
10740
PUR 574
C13.H28
DODECANE, 2-METHYL-
M WT 184
B PK 43
RANK 3
12981
PUR 556
M/Z
40
60
80
100
120
140
160
180

LIBRARY SEARCH
08/09/85 14:56:00 + 25:02
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1502
CALI: EQ299 # 2

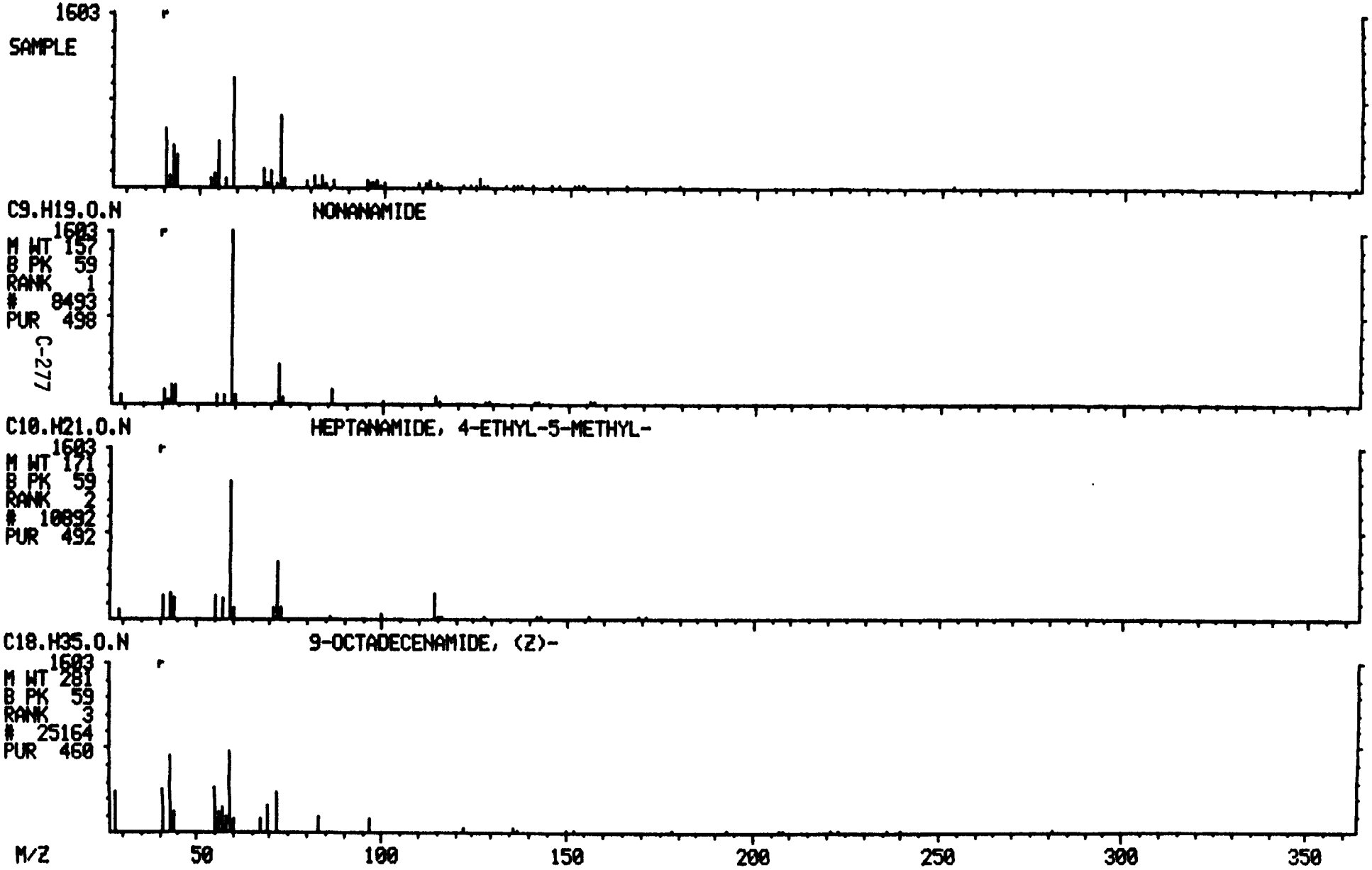
BASE M/Z: 149
RIC: 222975.



LIBRARY SEARCH
08/09/85 14:56:00 + 26:08
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1568
CALI: EQ299 # 2

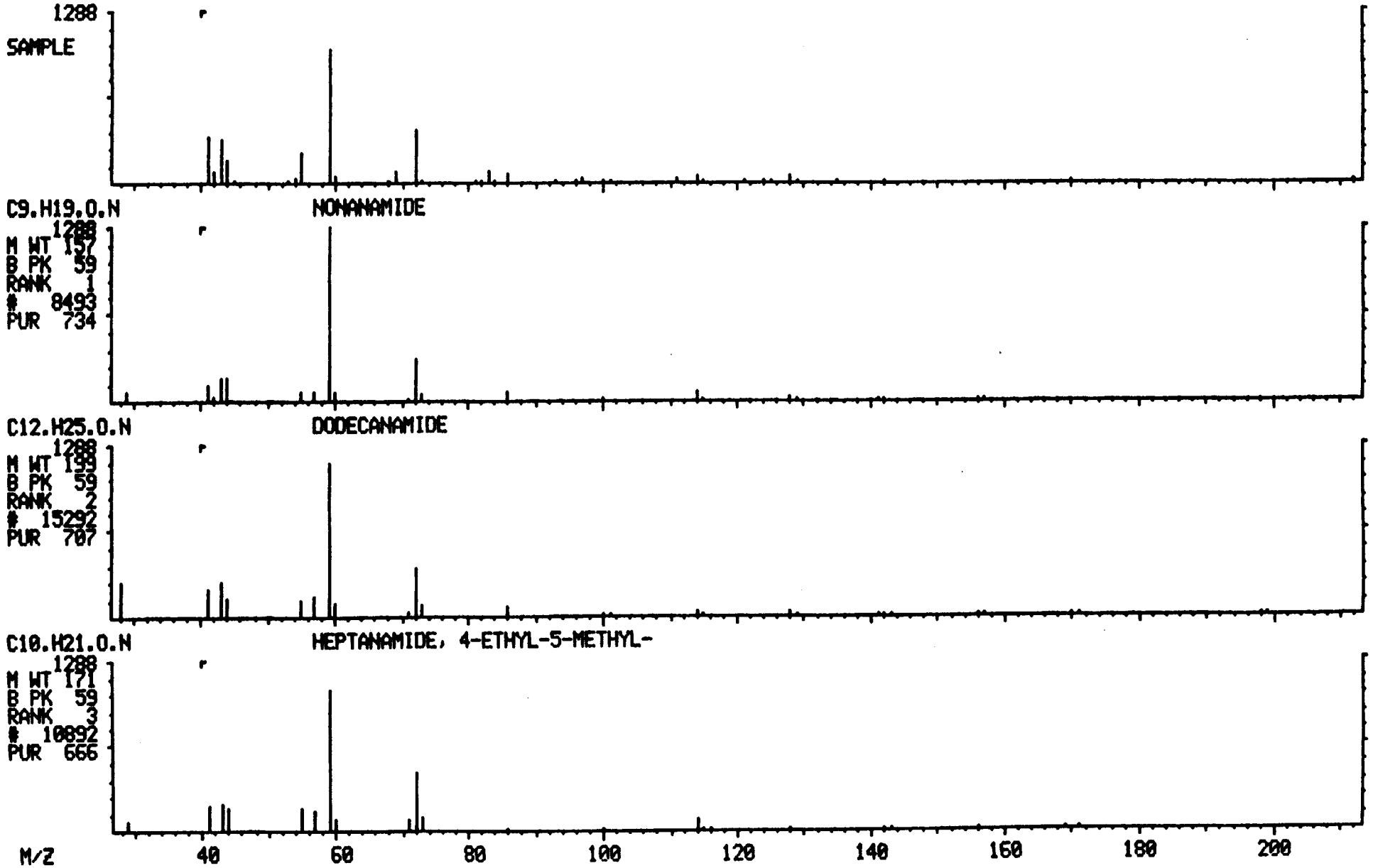
BASE M/Z: 59
RIC: 57407.



LIBRARY SEARCH
08/09/85 14:56:00 + 26:13
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1573
CALI: EQ299 # 2

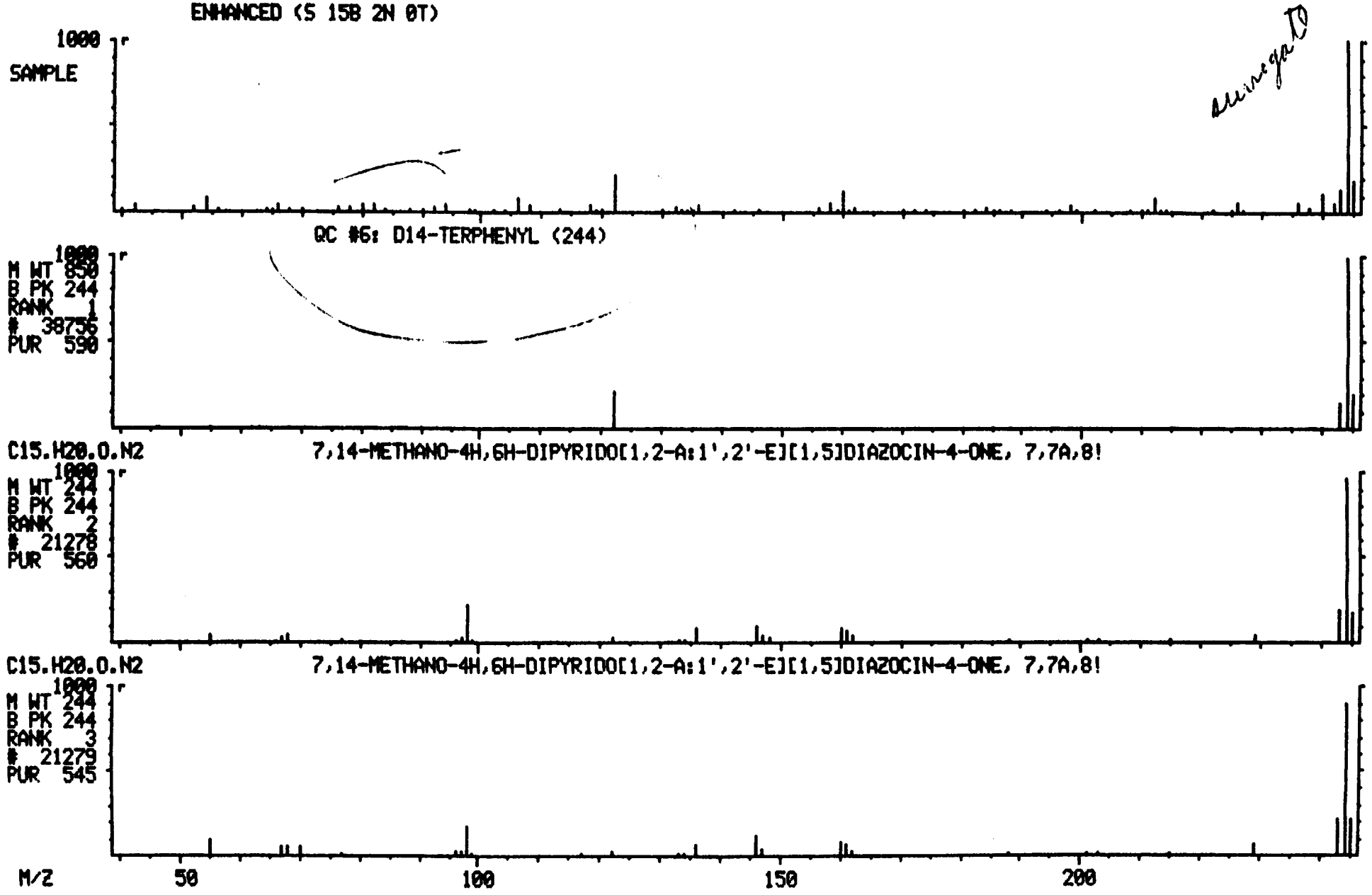
BASE M/Z: 59
RIC: 33855.



LIBRARY SEARCH
08/09/85 14:56:00 + 26:22
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1582
CALI: EQ299 # 2

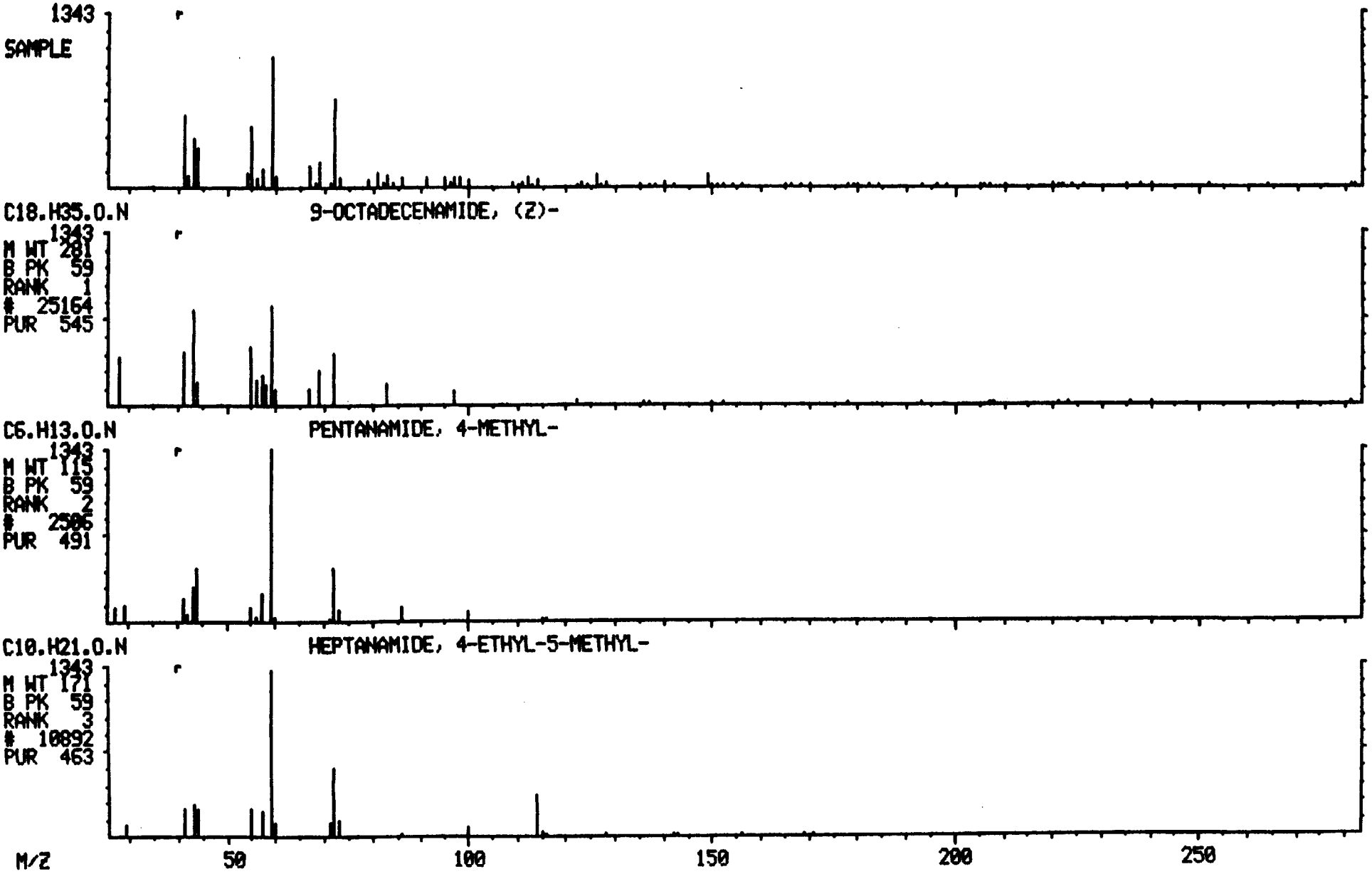
BASE M/Z: 244
RIC: 308735.



LIBRARY SEARCH
08/09/85 14:56:00 + 27:03
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (5 150 2N 0T)

DATA: EQ299 #1623
CALI: EQ299 # 2

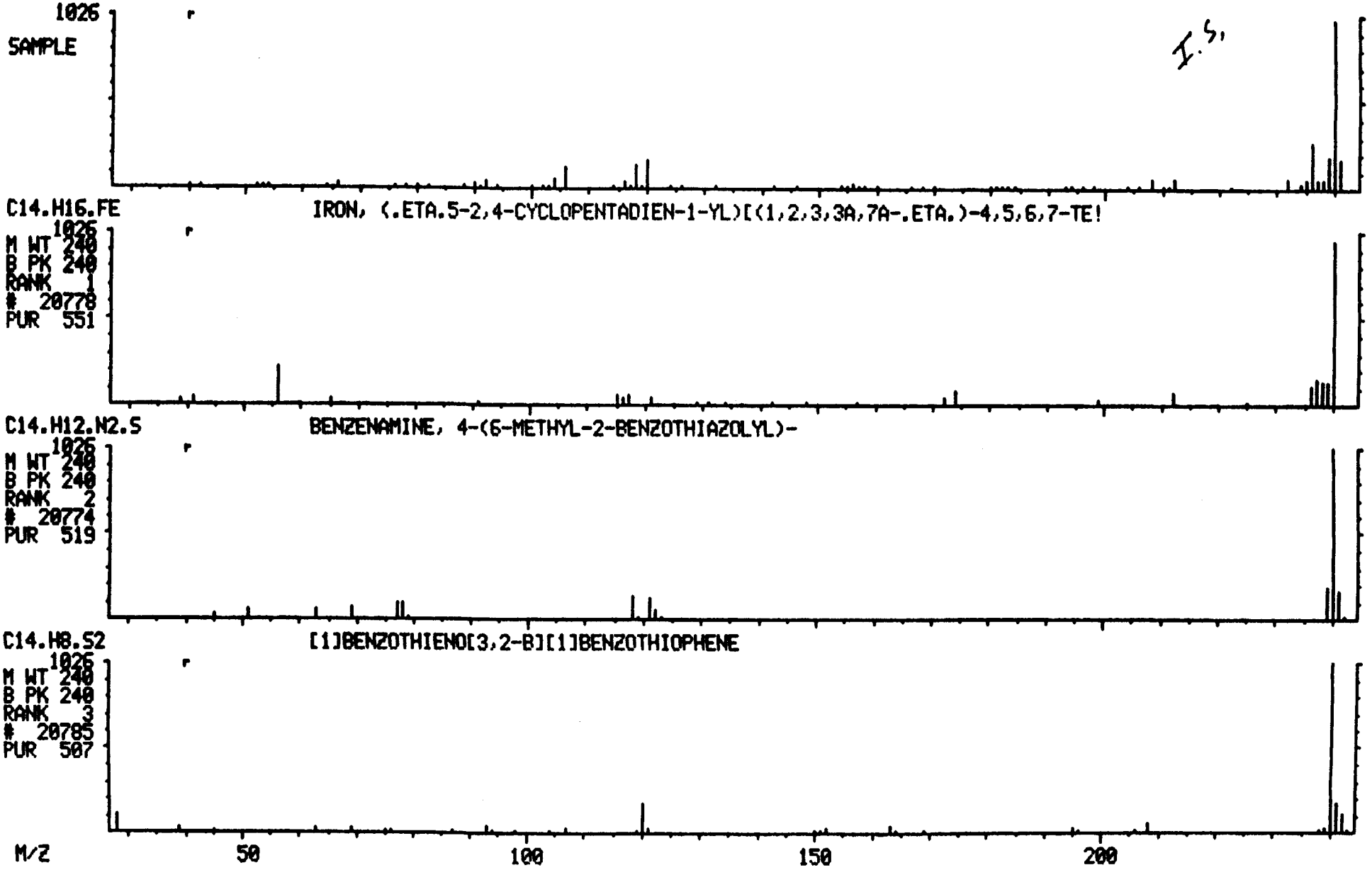
BASE M/Z: 59
RIC: 350207.



LIBRARY SEARCH
00/00/00 14:56:00 + 27:55
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1675
CALI: EQ299 # 2

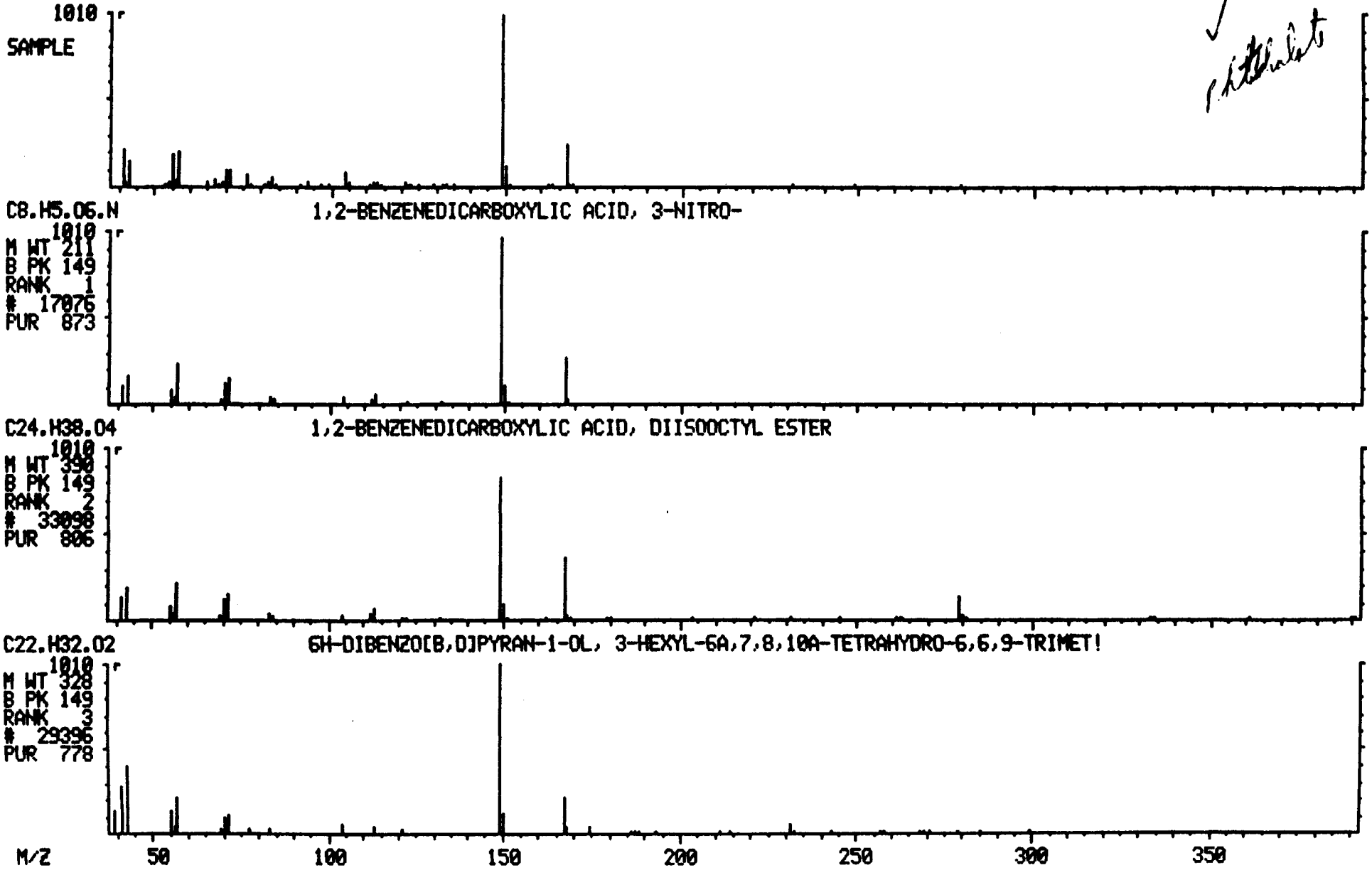
BASE M/Z: 240
RIC: 166655.



LIBRARY SEARCH
08/09/85 14:56:00 + 28:04
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1684
CALI: EQ299 # 2

BASE M/Z: 149
RIC: 150271.

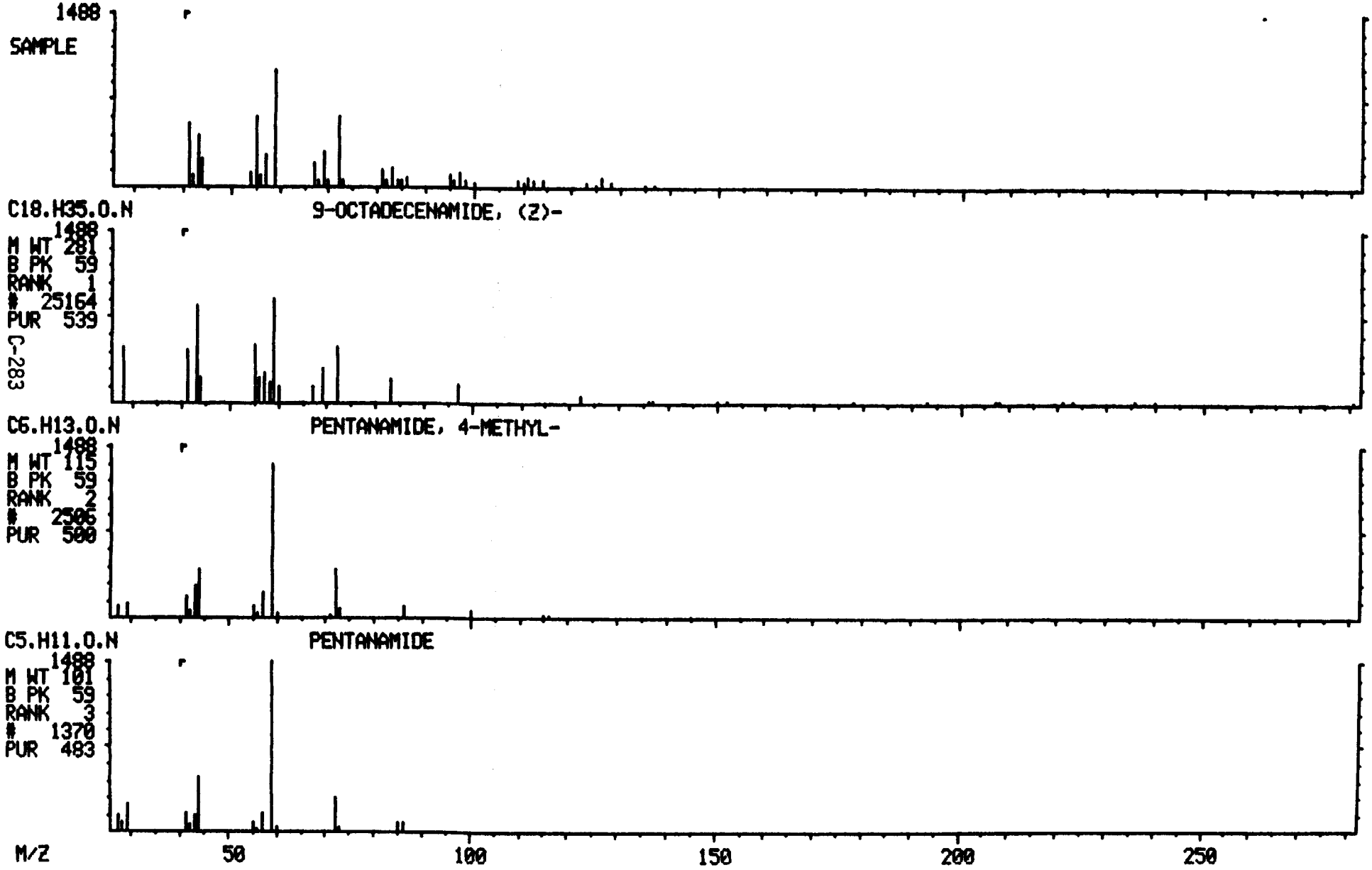


LIBRARY SEARCH
08/09/85 14:56:00 + 29:59
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1799
CALI: EQ299 # 2

BASE M/Z: 59
RIC: 27231.

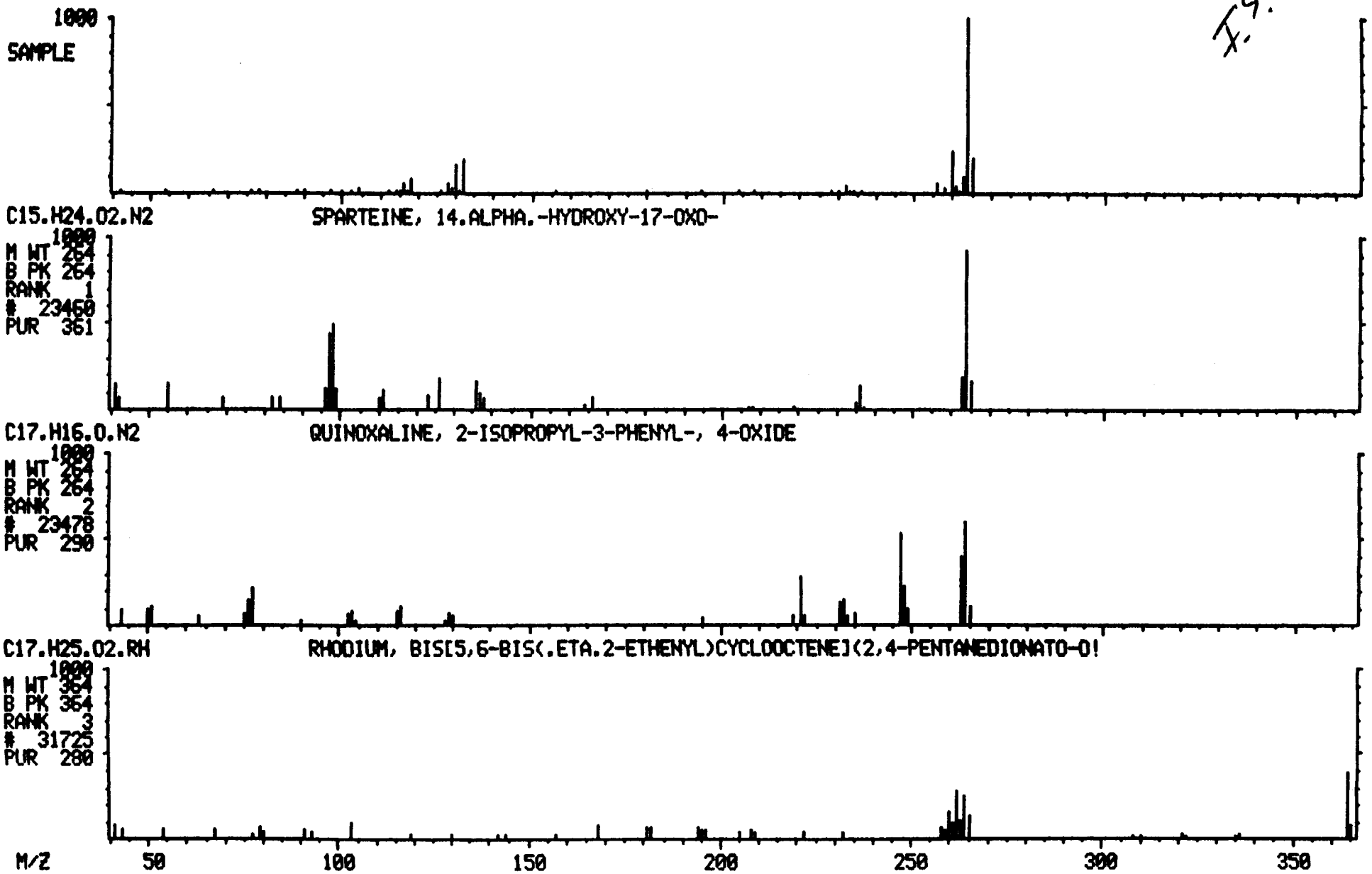
1



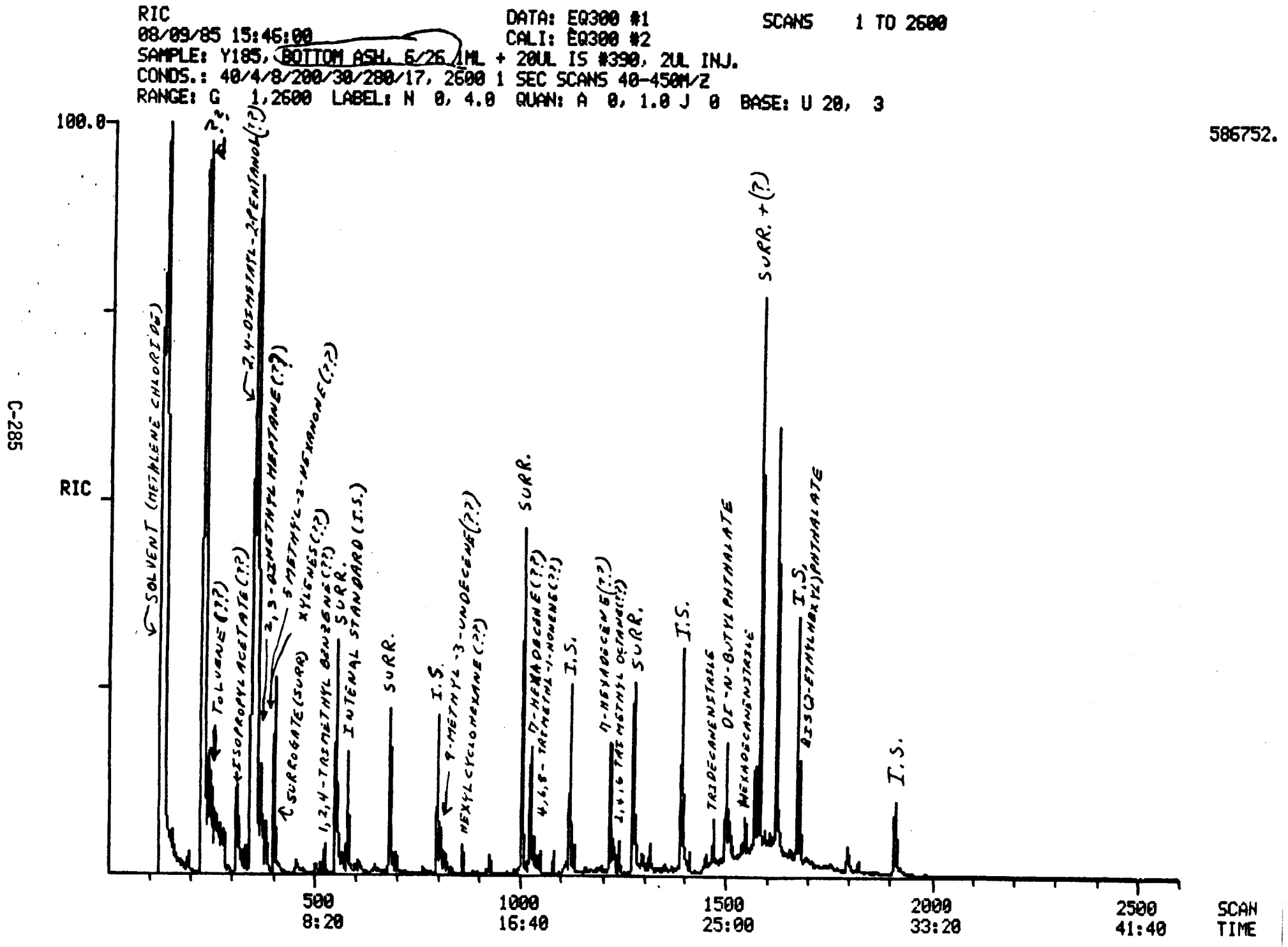
LIBRARY SEARCH
08/09/85 14:56:00 + 31:55
SAMPLE: Y184, BOTTOM ASH 6/25, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ299 #1915
CALI: EQ299 # 2

BASE M/Z: 264
RIC: 58239.



C-284


RIC
08/09/85 15:46:00
DATA: EQ300 #1
CALI: EQ300 #2
SCANS 1 TO 2600
SAMPLE: Y185, BOTTOM ASH, 6/26, 1ML + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
586752.
C-285
RIC
SOLVENT (METHYLENE CHLORIDE)
TOLUENE (?)
ISOPROPYL ACETATE (?)
2,3-DIMETHYL HEPTANE (?)
2,4-DIMETHYL-2-PENTANOL (?)
SURROGATE (SURR)
XYLENES (?)
1,2,4-TRIMETHYL BENZENE (?)
INTERNAL STANDARD (I.S.)
SURR.
I.S.
SURR.
I.S.
I.S.
SURR.
SURR. + (?)
I.S.
I.S.
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ300

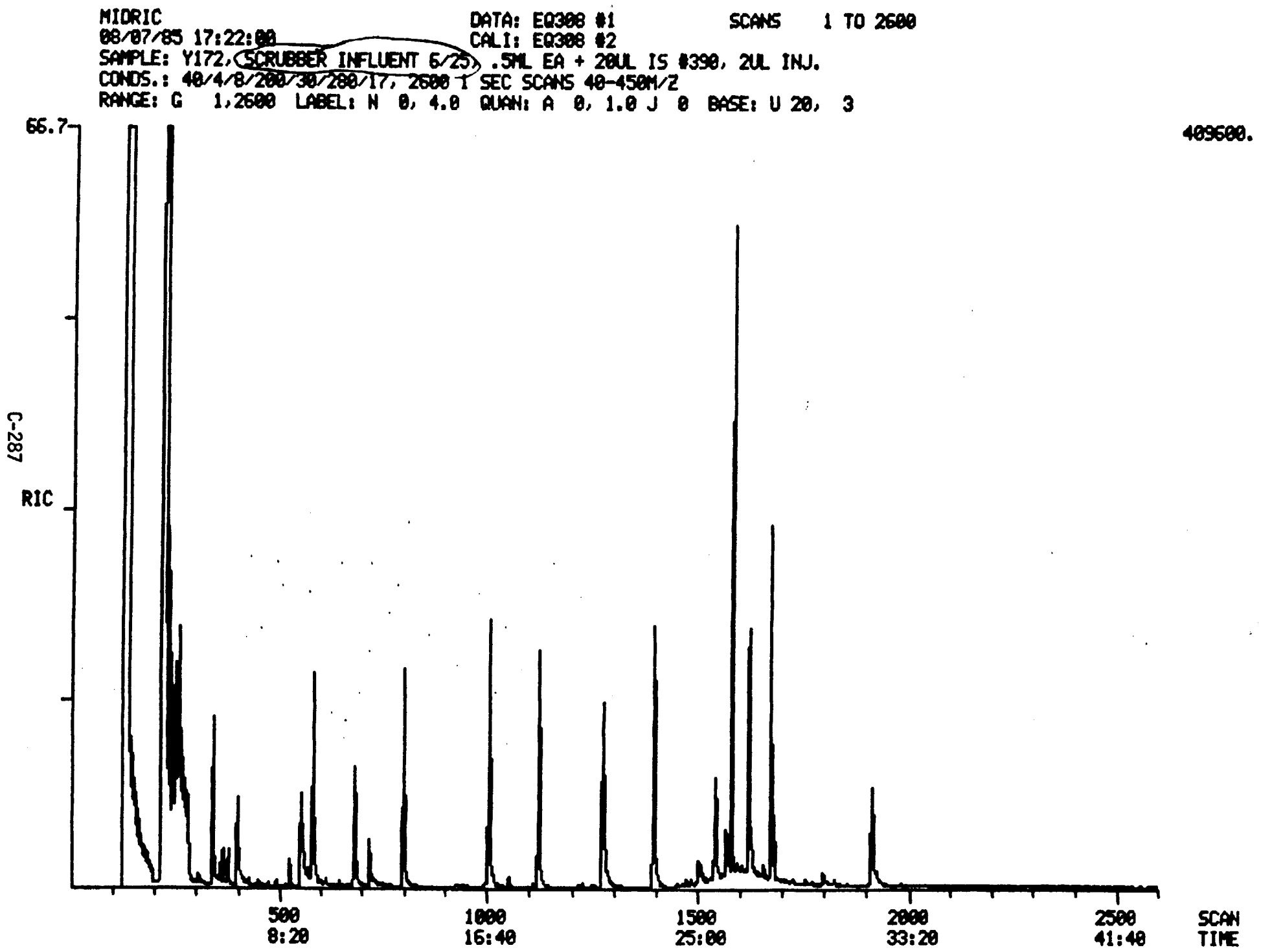
Data: EQ300.TI
08/09/85 15:46:00
Sample: Y185, BOTTOM ASH, 6/26 1ML + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

1ml
30.1g

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	GC #1: 2-FLUOROPHENOL (112)
3	GC #2: D5-PHENOL (99)
4	GC #3: D5-NITROBENZENE (82)
5	IS #2: D8-NAPHTHALENE (136)
6	NAPHTHALENE (128)
7	IS #3: D10-ACENAPTHENE (164)
8	GC #4: 2-FLUOROBIPHENYL (172)
9	IS #4: D10-PHENANTHRENE (188)
10	GC #5: 2,4,6-TRIBROMOPHENOL (330)
11	DI-N-BUTYLPHTHALATE (149) $
12	IS #5: D12-CHRYSENE (240)
13	GC #6: D14-TERPHENYL (244)
14	BUTYLBENZYLPHTHALATE (149)
15	BIS(2-ETHYLHEXYL)PHTHALATE (149)
16	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	581	9:41	1	1.000	A BB	57707.	40.000 PPB	3.63	
2	112	402	6:42	1	0.692	A BB	165808.	186.442 PPB	16.91	
3	99	551	9:11	1	0.948	A BB	261817.	175.509 PPB	15.92	
4	82	680	11:20	1	1.170	A BB	168920.	103.725 PPB	9.41	
5	136	799	13:19	5	1.000	A BB	206226.	40.000 PPB	3.63	
6	128	802	13:22	5	1.004	A BB	13150.	2.347 PPB	0.21	
7	164	1121	18:41	7	1.000	A BB	106471.	40.000 PPB	3.63	
8	172	1005	16:45	7	0.897	A BB	284301.	96.585 PPB	8.76	
9	188	1393	23:13	9	1.000	A BB	206547.	40.000 PPB	3.63	
10	330	1272	21:12	9	0.913	A BB	94321.	198.768 PPB	18.03	
11	149	1500	25:00	9	1.077	A BB	78577.	10.373 PPB	0.94	0.34μg/g
12	240	1674	27:54	12	1.000	A BV	177123.	40.000 PPB	3.63	
13	244	1581	26:21	12	0.944	A BB	261648.	74.221 PPB	6.73	
14	149	1622	27:02	12	0.969	A VB	11999.	2.903 PPB	0.26	
15	149	1683	28:03	12	1.005	A BB	61168.	11.439 PPB	1.04	0.38μg/g
16	264	1913	31:53	16	1.000	A BB	153598.	40.000 PPB	3.63	


MIDRIC
08/07/85 17:22:00
DATA: EQ300 #1
CALI: EQ300 #2
SCANS 1 TO 2600
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
66.7
409600.
C-287
RIC
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ308

Data: EQ308.TI
08/07/85 17:22:09
Sample: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

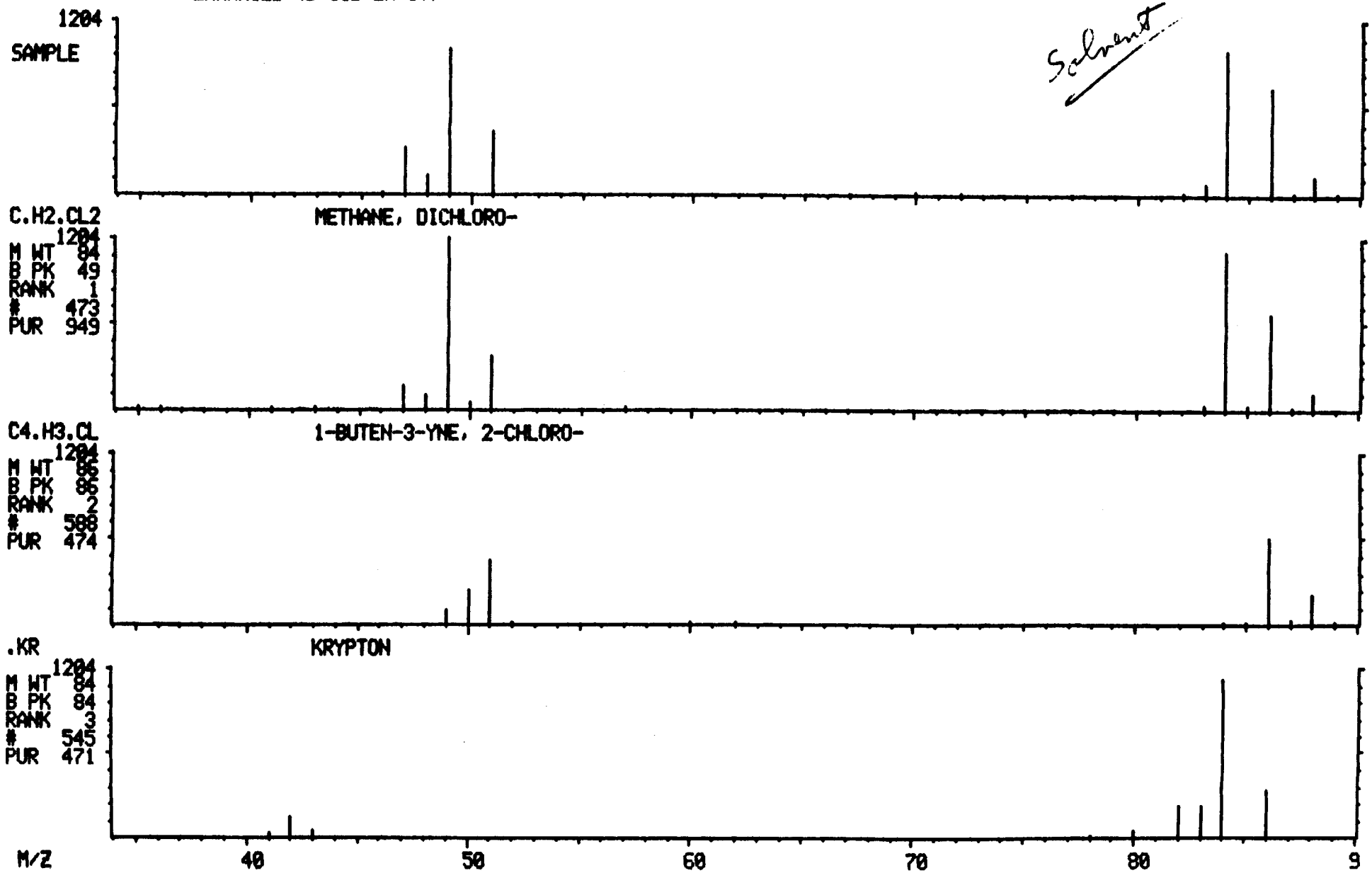
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000 (1000 ml / 500 ml)
Resp. fac. from Library Entry

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #2: D5-PHENOL (99)
3	QC #3: D5-NITROBENZENE (82)
4	1,2-DICHLOROBENZENE (146)
5	IS #2: D8-NAPHTHALENE (136)
6	IS #3: D10-ACENAPTHENE (164)
7	QC #4: 2-FLUOROBIPHENYL (172)
8	2,6-DINITROTOLUENE (165)
9	IS #4: D10-PHENANTHRENE (188)
10	QC #5: 2,4,6-TRIBROMOPHENOL (330)
11	IS #5: D12-CHRYSENE (240)
12	QC #6: D14-TERPHENYL (244)
13	BUTYLBENZYLPHTHALATE (149)
14	BIS(2-ETHYLHEXYL)PHTHALATE (149)
15	IS #6: D12-PERYLENE (264)

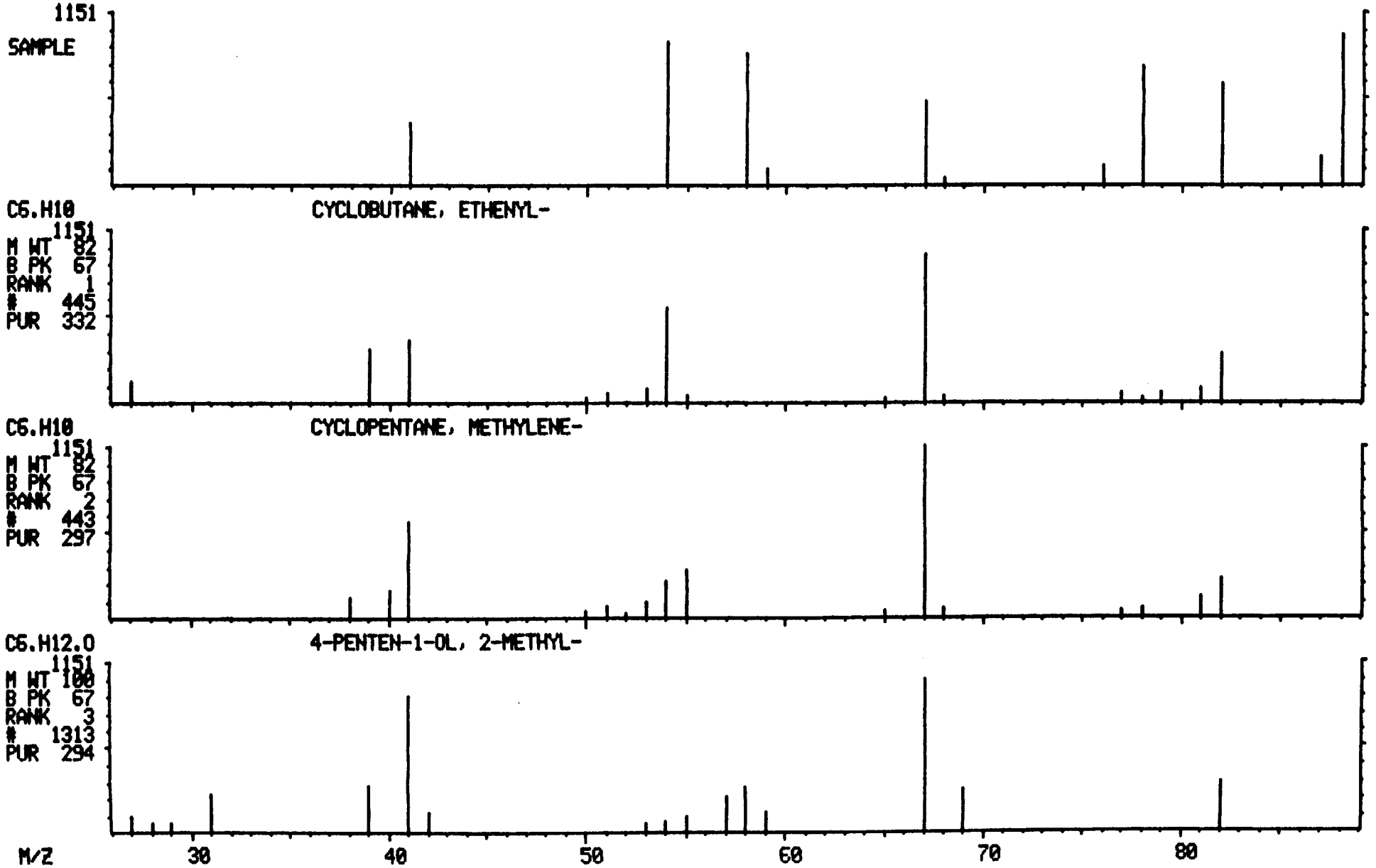
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	580	9:40	1	1.000	A BB	63952.	80.000 PPB	5.21
2	99	551	9:11	1	0.950	A BB	101688.	132.795 PPB	8.64
3	82	680	11:20	1	1.172	A BB	94638.	121.571 PPB	7.91
4	146	613	10:13	1	1.057	A BB	2811.	2.109 PPB	0.14
5	136	799	13:19	5	1.000	A BB	203485.	80.000 PPB	5.21
6	164	1122	18:42	6	1.000	A BB	99937.	80.000 PPB	5.21
7	172	1006	16:46	6	0.897	A BB	165723.	132.620 PPB	8.63
8	165	1122	18:42	6	1.000	A BB	12426.	269.989 PPB	17.56
9	188	1395	23:15	9	1.000	A BB	199529.	80.000 PPB	5.21
10	330	1273	21:13	9	0.913	A BB	66757.	254.021 PPB	16.53
11	240	1675	27:55	11	1.000	A BB	161471.	80.000 PPB	5.21
12	244	1582	26:22	11	0.944	A BB	189208.	131.181 PPB	8.54
13	149	1623	27:03	11	0.969	A BB	6738.	3.664 PPB	0.24
14	149	1683	28:03	11	1.005	A BB	21411.	8.981 PPB (18)	0.58
15	264	1914	31:54	15	1.000	A BB	122696.	80.000 PPB	5.21

I.S.

MID LIBRARY SEARCH
08/07/85 17:22:00 + 2:16
DATA: EQ308 # 136
CALI: EQ308 # 2
BASE M/Z: 49
RIC: 349183.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



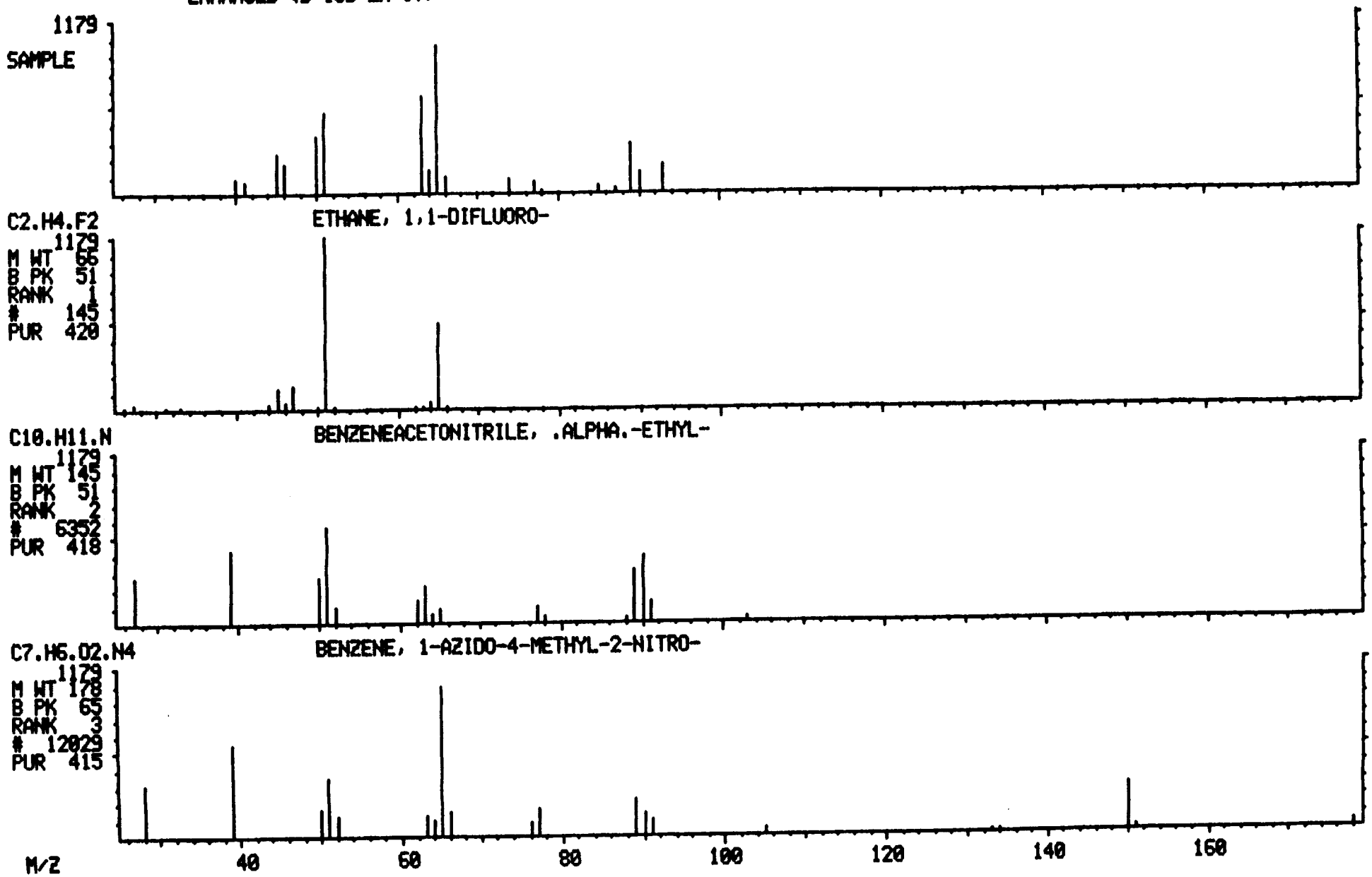
MID LIBRARY SEARCH
08/07/85 17:22:00 + 2:28
DATA: EQ308 # 148
CALI: EQ308 # 2
BASE M/Z: 88
RIC: 2047.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



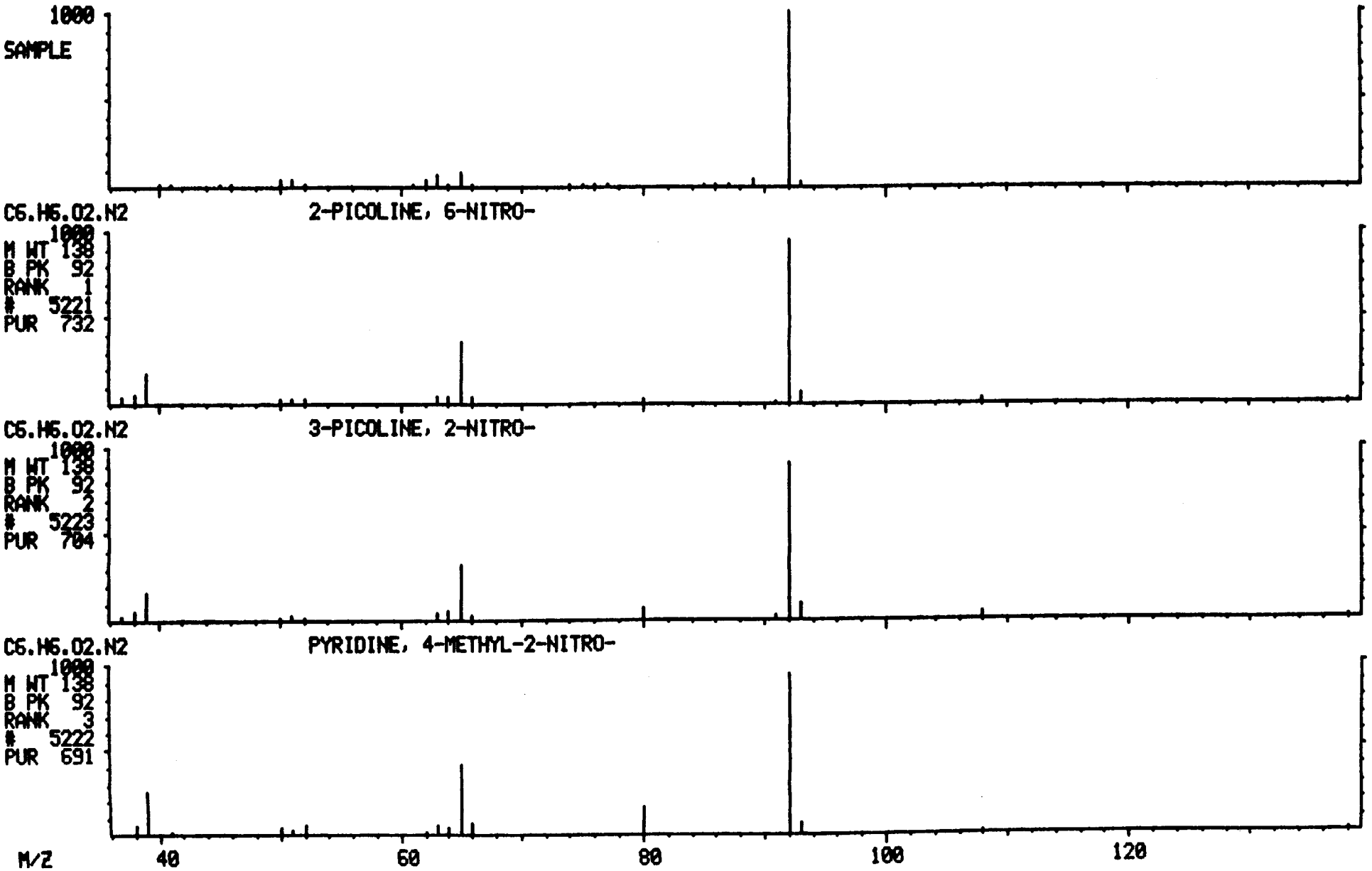
MID LIBRARY SEARCH
08/07/85 17:22:00 + 3:40
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ300 # 220
CALI: EQ300 # 2

BASE M/Z: 65
RIC: 154879.



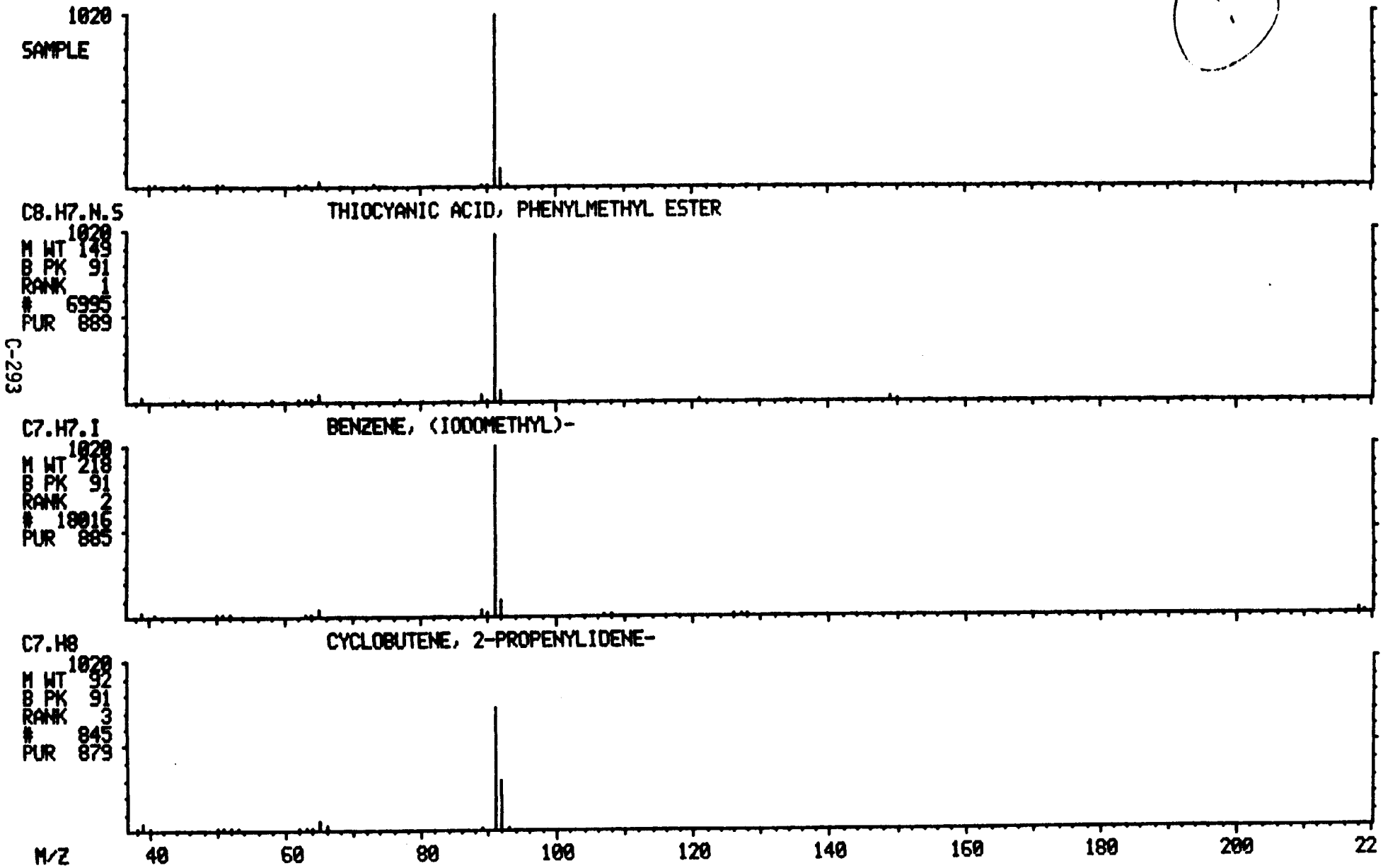
MID LIBRARY SEARCH
08/07/85 17:22:00 + 3:45
DATA: EQ300 # 225
CALI: EQ300 # 2
BASE M/Z: 92
RIC: 284671.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



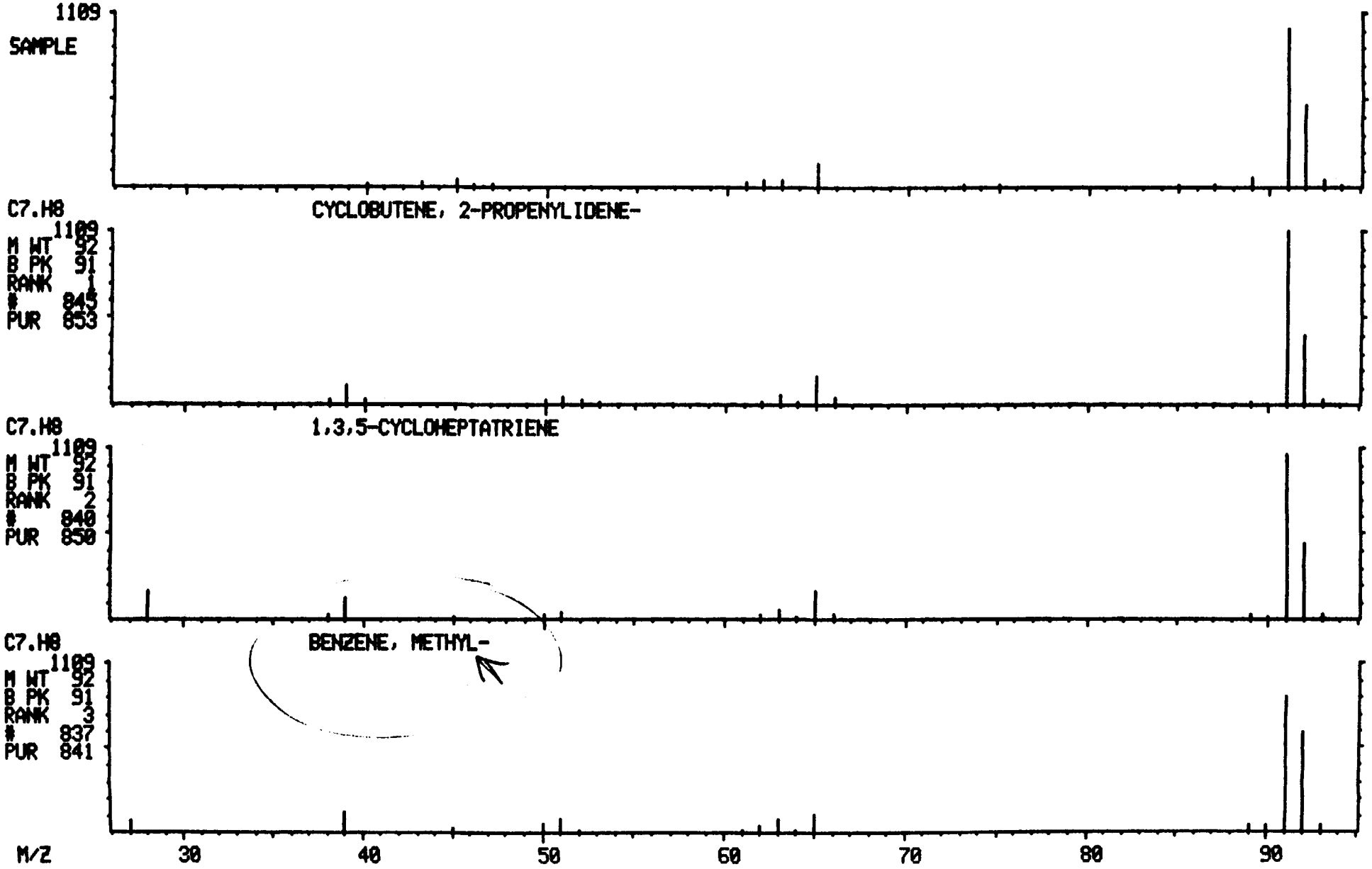
MID LIBRARY SEARCH
08/07/85 17:22:00 + 3:51
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

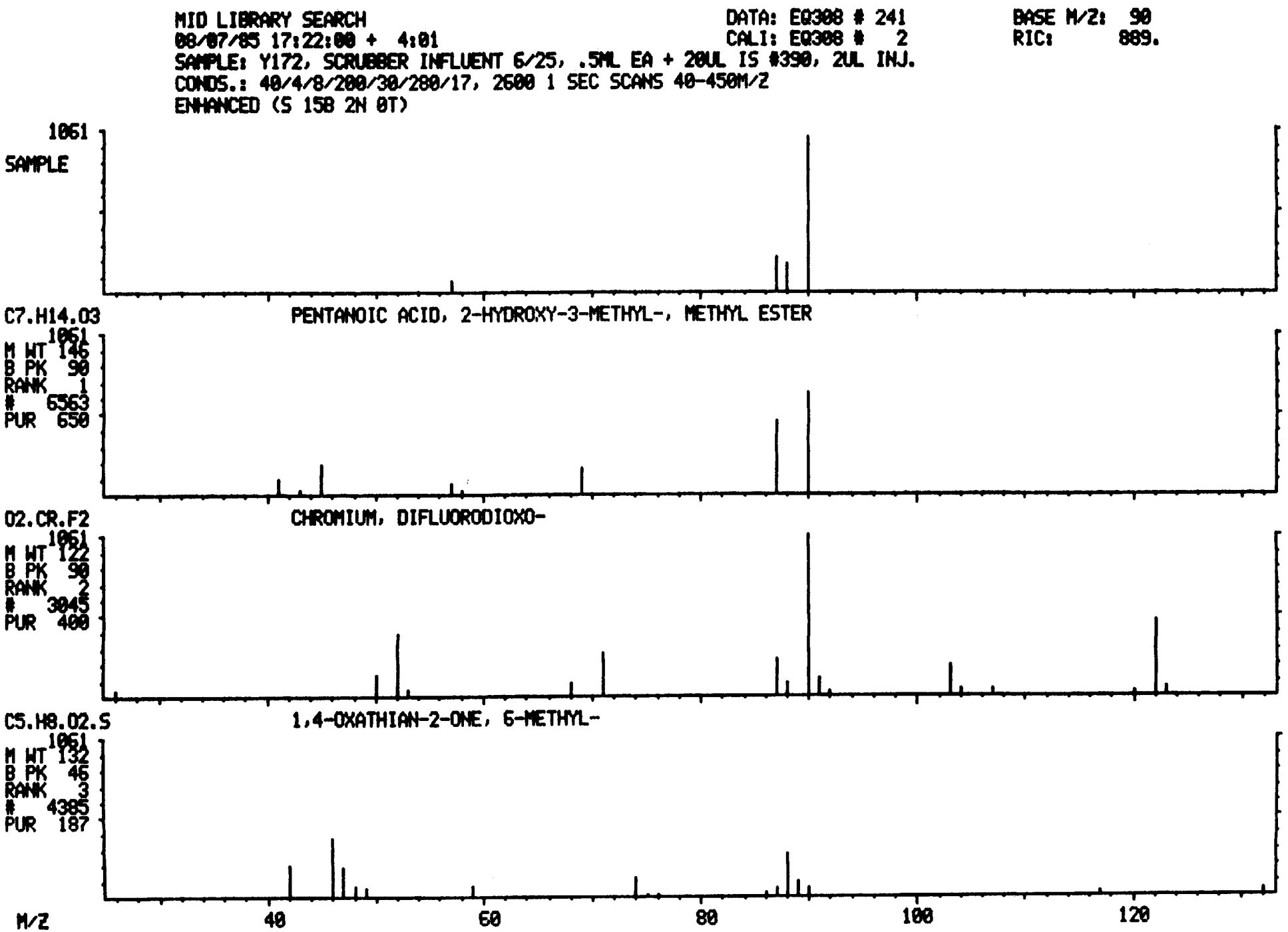
DATA: EQ300 # 231
CALI: EQ300 # 2

BASE M/Z: 91
RIC: 58367.

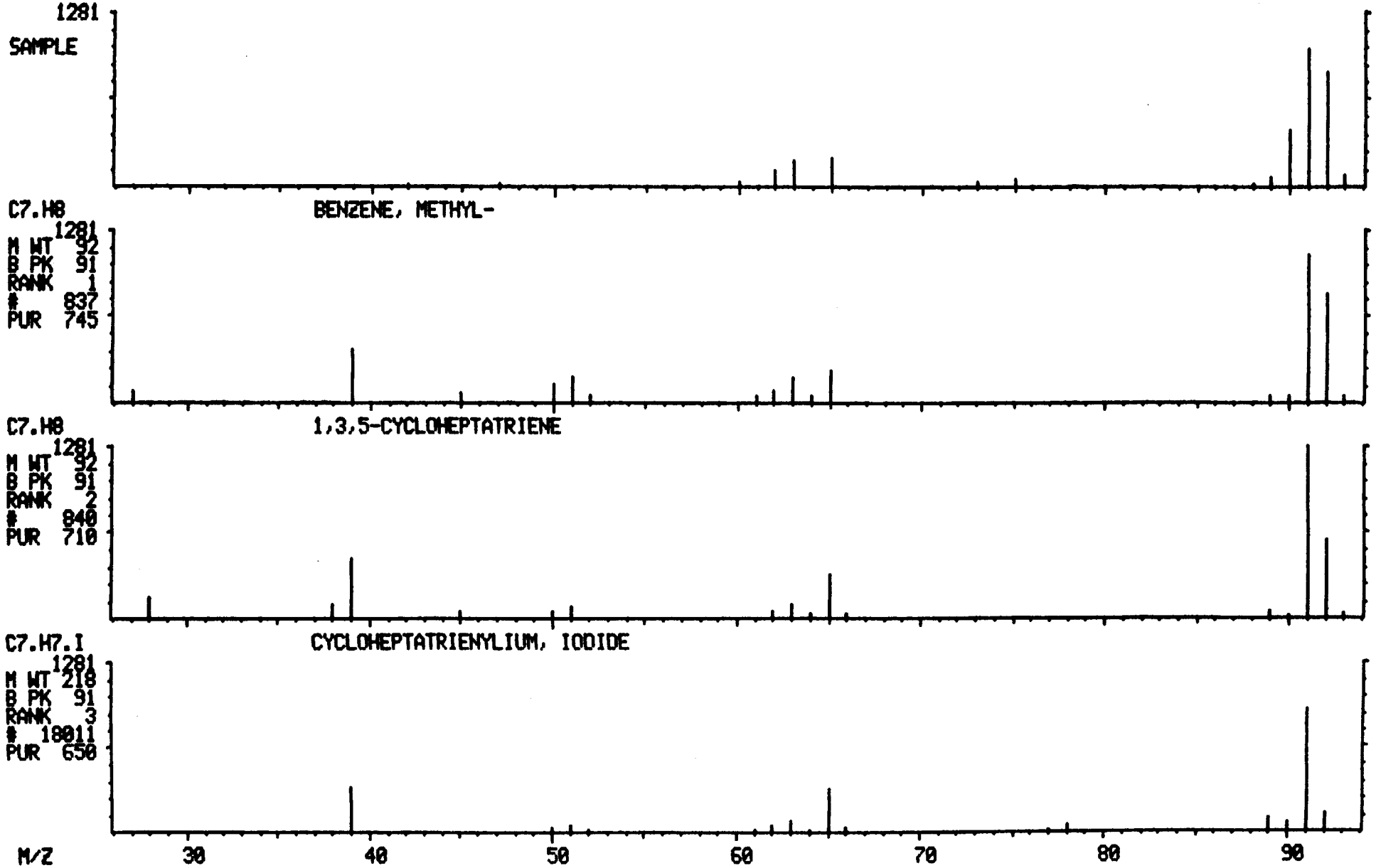


MID LIBRARY SEARCH
08/07/85 17:22:00 + 3:56
DATA: EQ300 # 236
CALI: EQ300 # 2
BASE M/Z: 91
RIC: 14111.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)




MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:01
DATA: EQ308 # 241
CALI: EQ308 # 2
BASE M/Z: 90
RIC: 889.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
1061
SAMPLE
C7.H14.03
PENTANOIC ACID, 2-HYDROXY-3-METHYL-, METHYL ESTER
1061
M WT 146
B PK 90
RANK 1
6563
PUR 650
O2.CR.F2
CHROMIUM, DIFLUORODIOXO-
1061
M WT 122
B PK 90
RANK 2
3045
PUR 400
C5.H8.O2.S
1,4-OXATHIAN-2-ONE, 6-METHYL-
1061
M WT 132
B PK 45
RANK 3
4385
PUR 187
M/Z
40
60
80
100
120

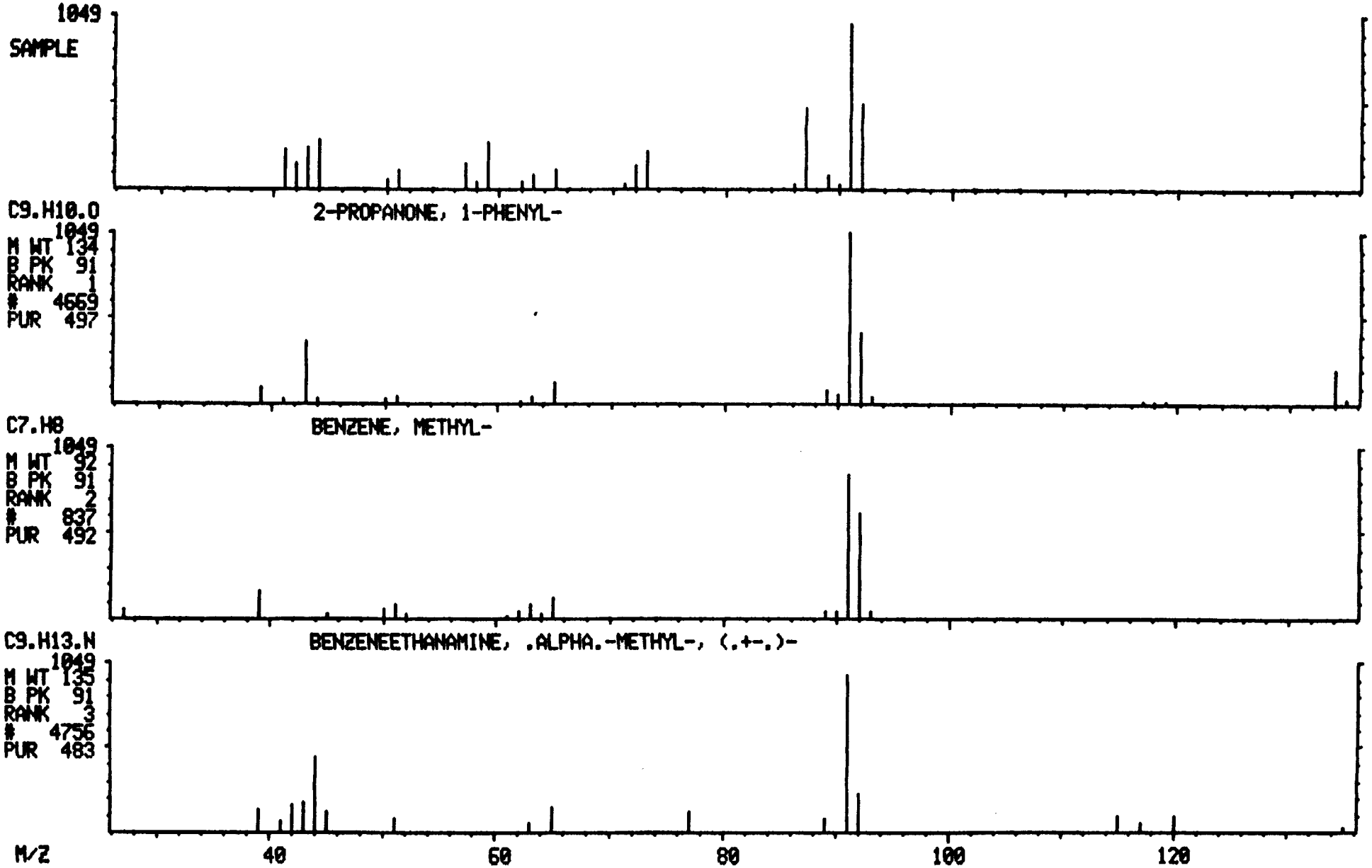
MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:06
DATA: EQ308 # 246
CALI: EQ308 # 2
BASE M/Z: 91
RIC: 6735.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



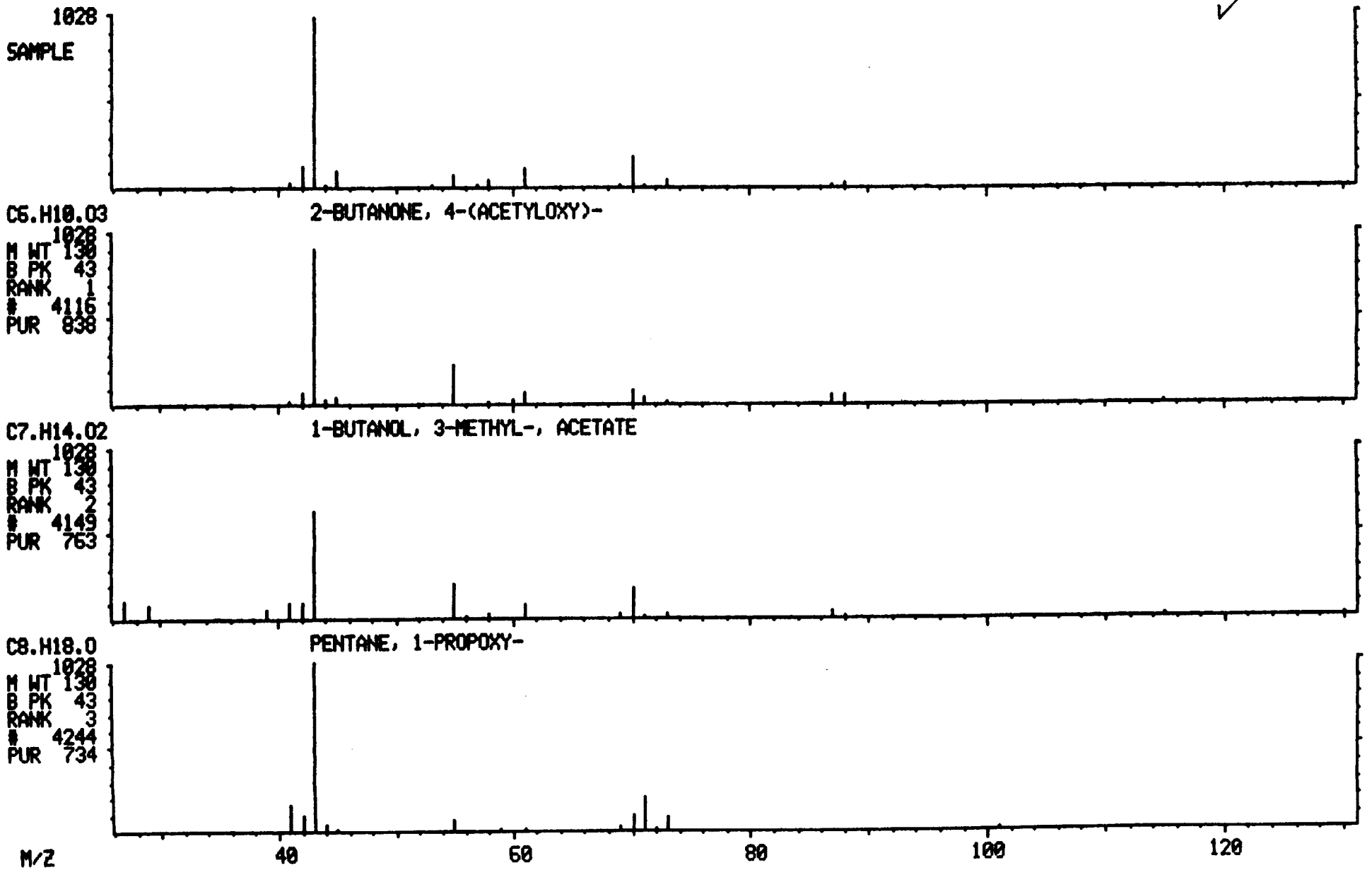
MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:11
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ308 # 251
CALI: EQ308 # 2

BASE M/Z: 91
RIC: 21695.



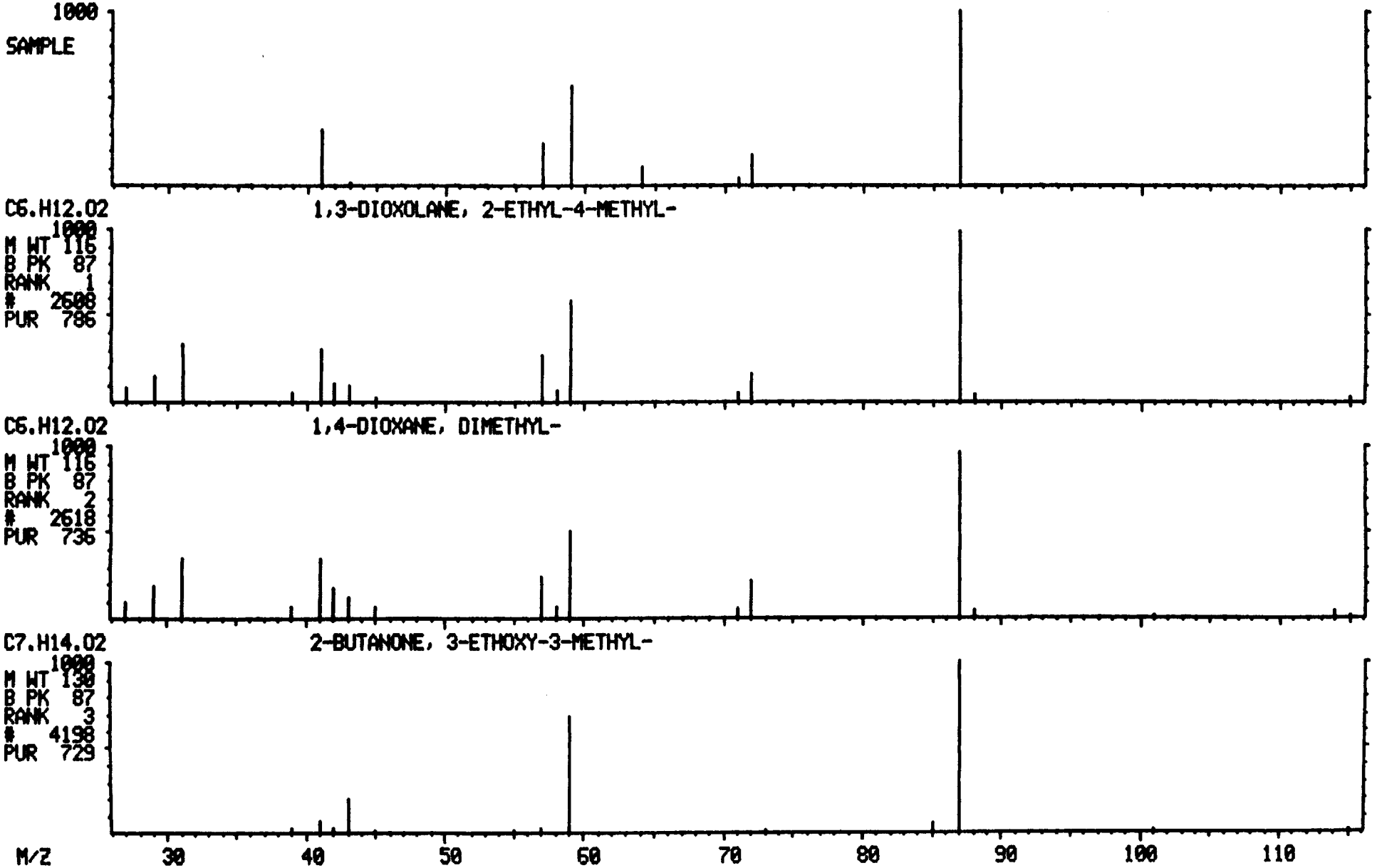
MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:18
DATA: EQ308 # 258
CALI: EQ308 # 2
BASE M/Z: 43
RIC: 67199.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:24
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ308 # 264
CALI: EQ308 # 2

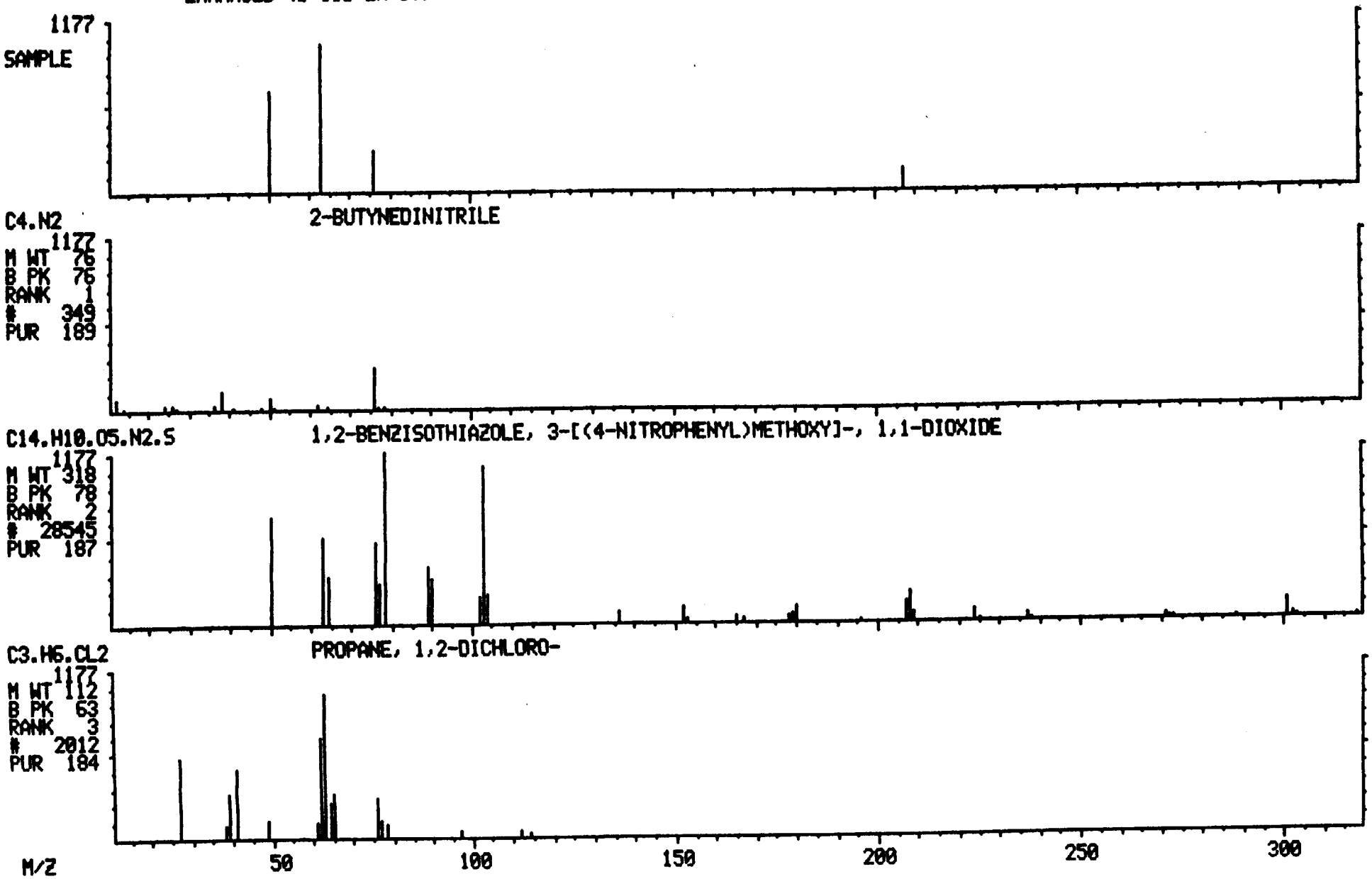
BASE M/Z: 87
RIC: 5071.



MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:28
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

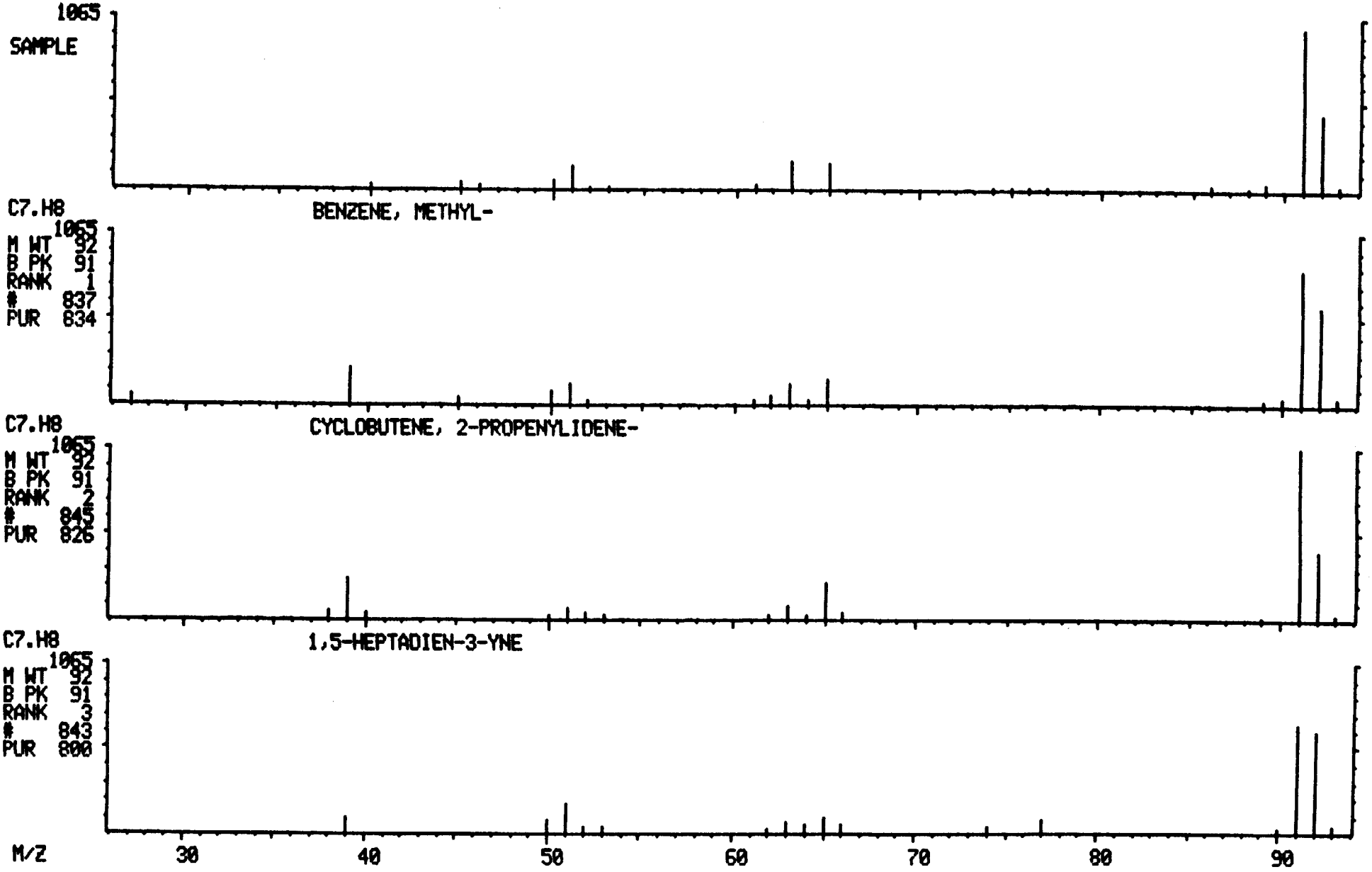
DATA: EQ300 # 268
CALI: EQ300 # 2

BASE M/Z: 63
RIC: 531.

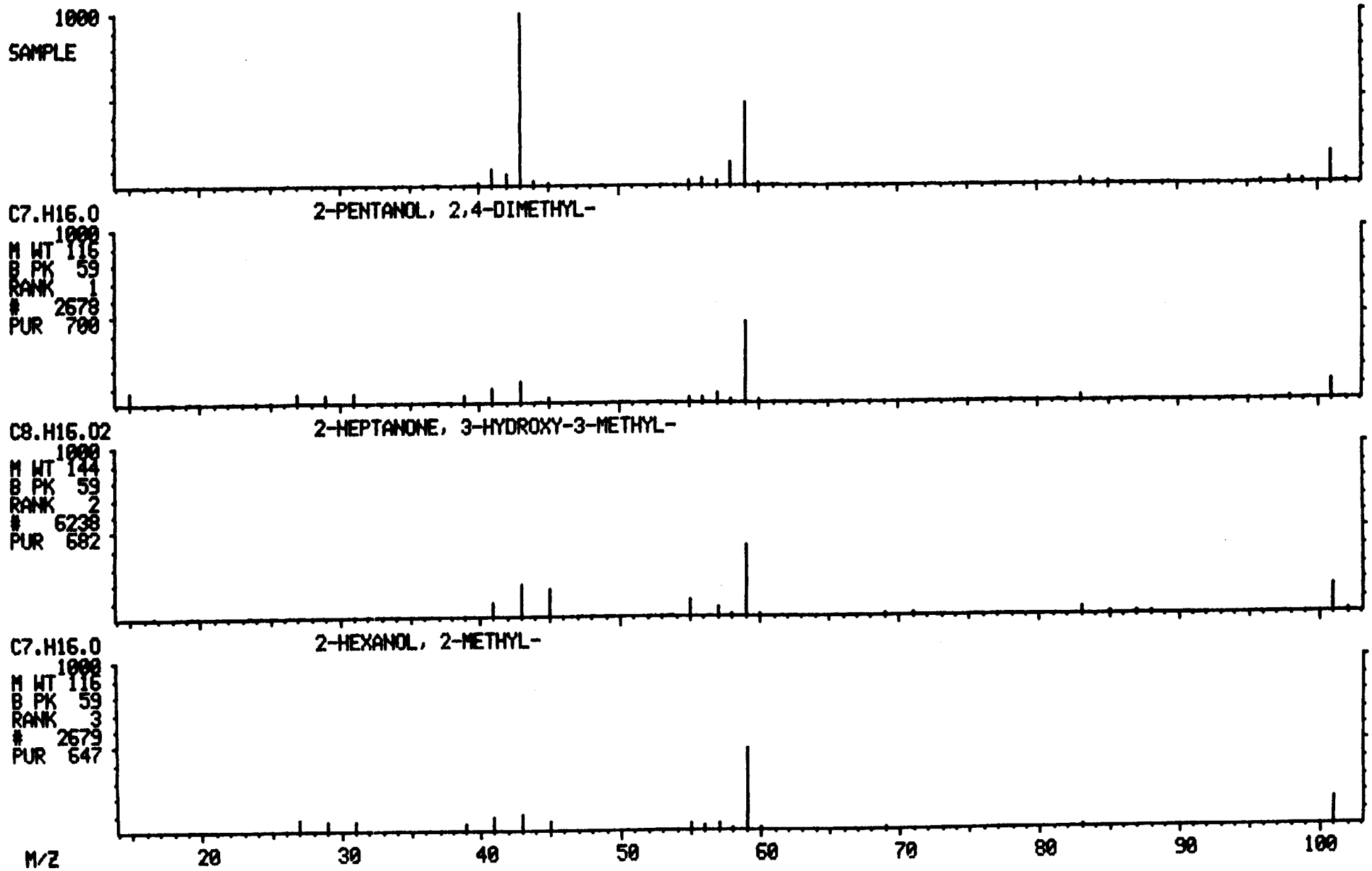


C-300

MID LIBRARY SEARCH
08/07/85 17:22:00 + 4:38
DATA: EQ308 # 278
CALI: EQ308 # 2
BASE M/Z: 91
RIC: 12255.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



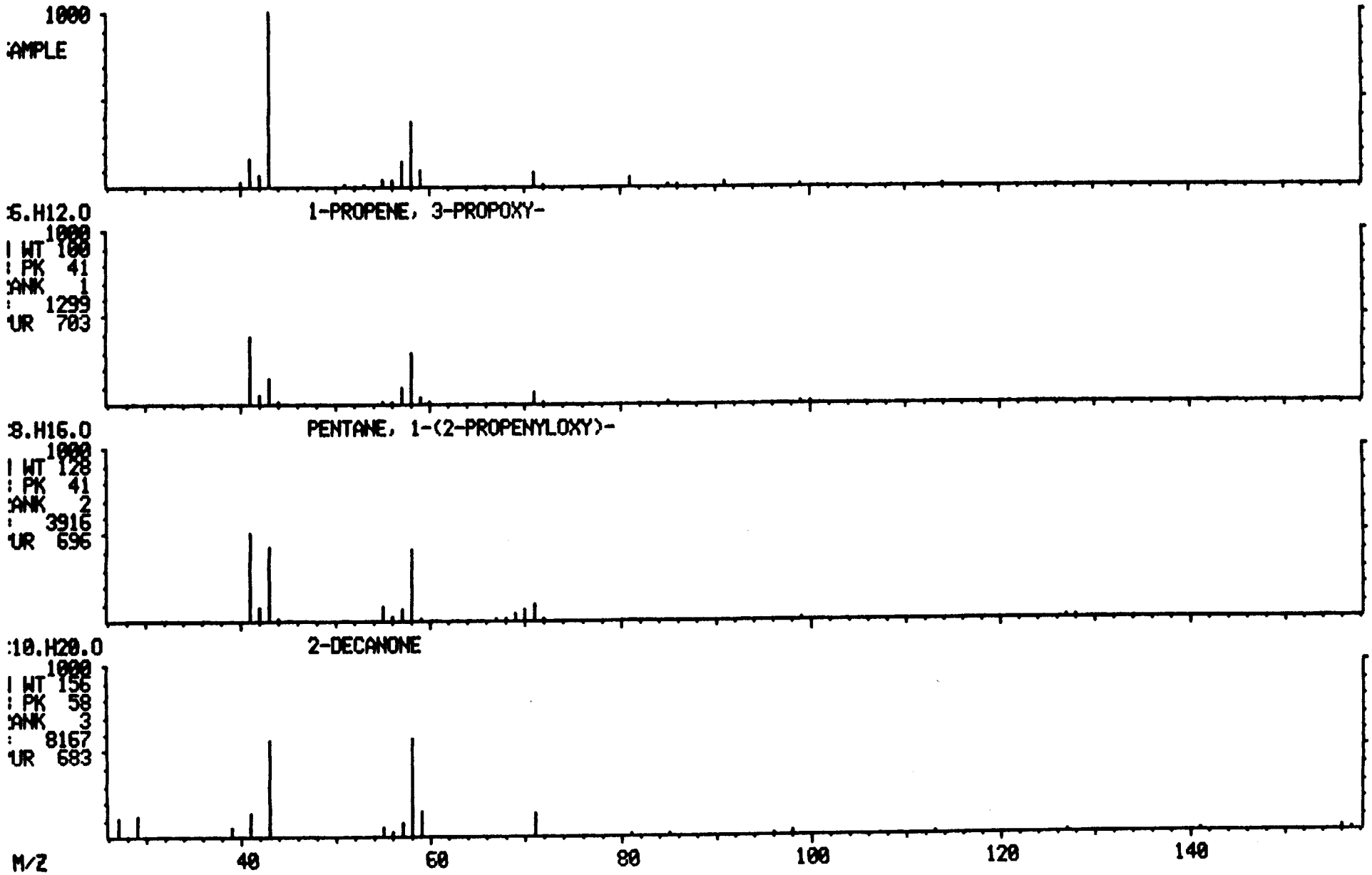
MID LIBRARY SEARCH
08/07/85 17:22:00 + 5:40
DATA: EQ300 # 340
CALI: EQ300 # 2
BASE M/Z: 43
RIC: 77439.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



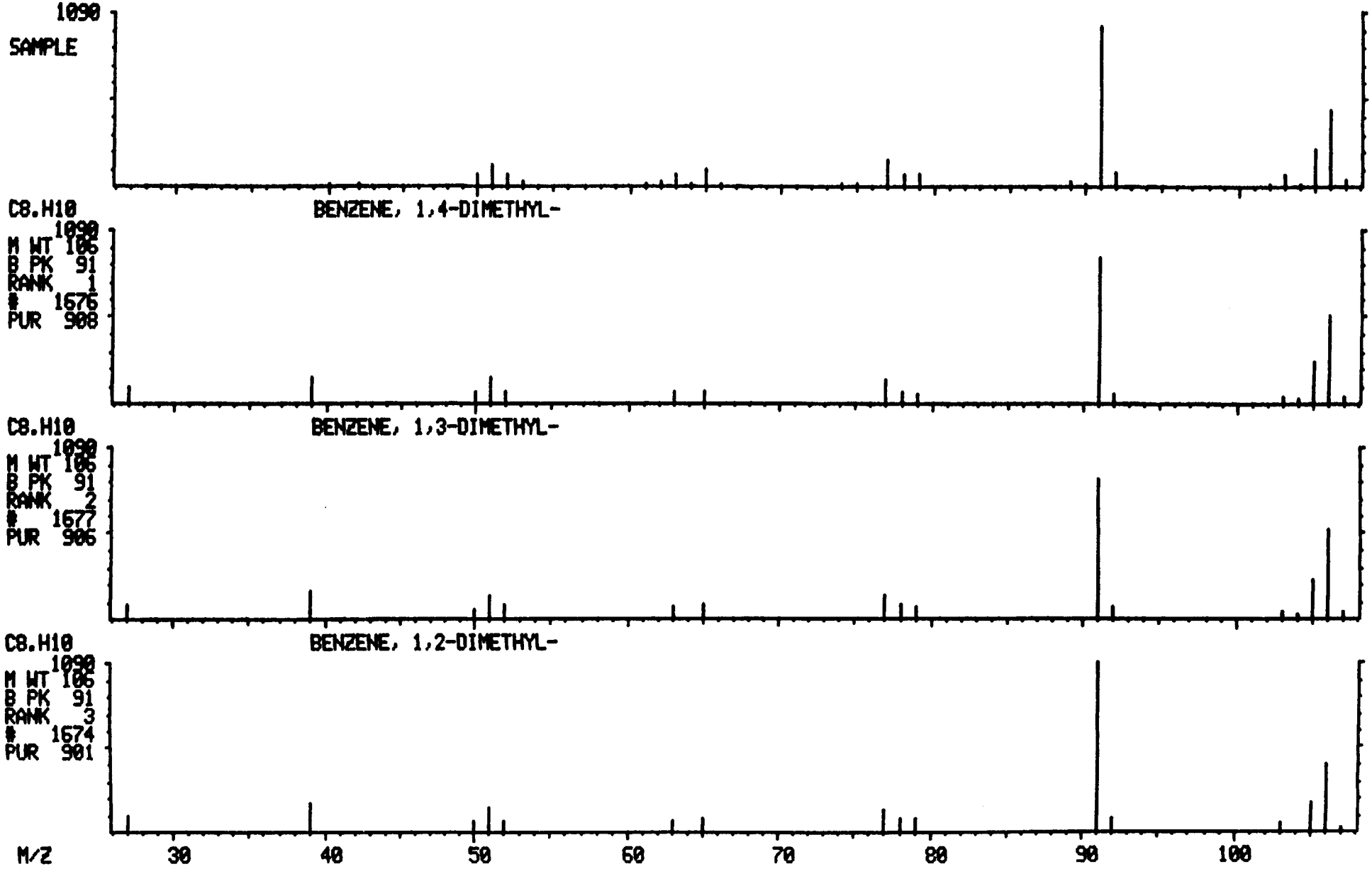
MID LIBRARY SEARCH
08/07/85 17:22:00 + 6:05
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ300 # 365
CALI: EQ300 # 2

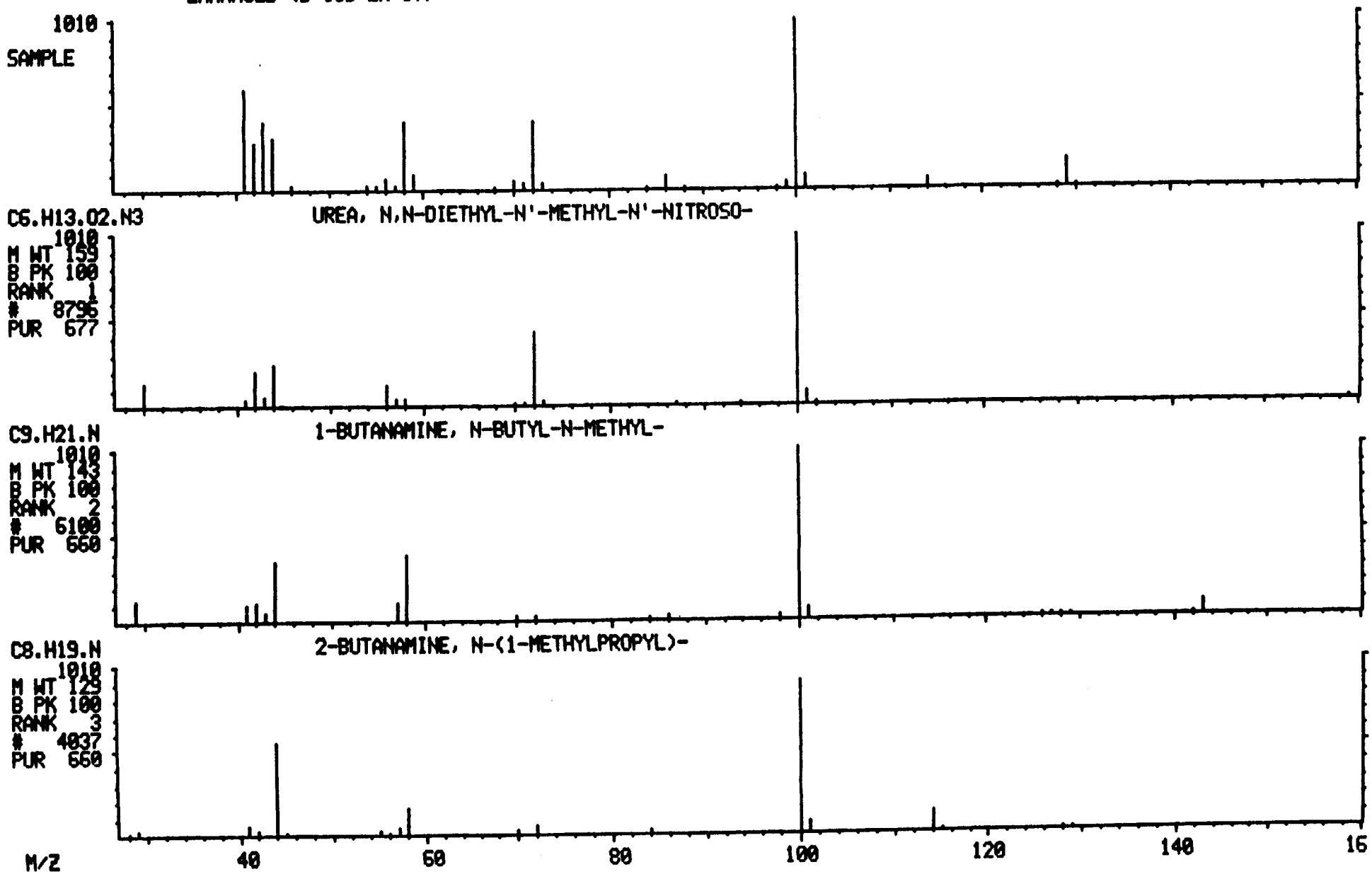
BASE M/Z: 43
RIC: 16959.



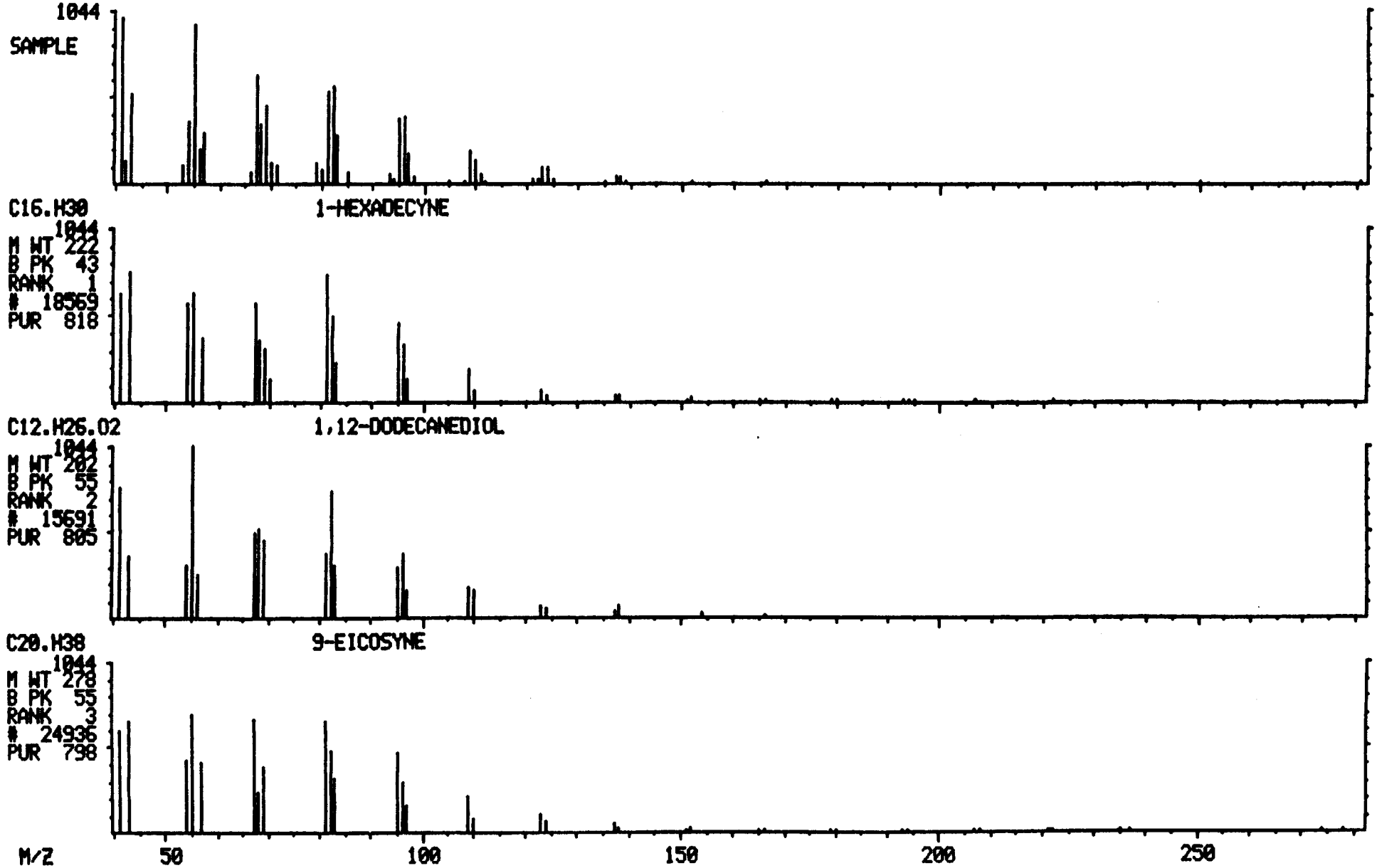
MID LIBRARY SEARCH
08/07/85 17:22:00 + 6:17
DATA: EQ300 # 377
CALI: EQ300 # 2
BASE M/Z: 91
RIC: 17535.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



MID LIBRARY SEARCH
08/07/85 17:22:00 + 11:57
DATA: EQ300 # 717
CALI: EQ300 # 2
BASE M/Z: 100
RIC: 21535.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



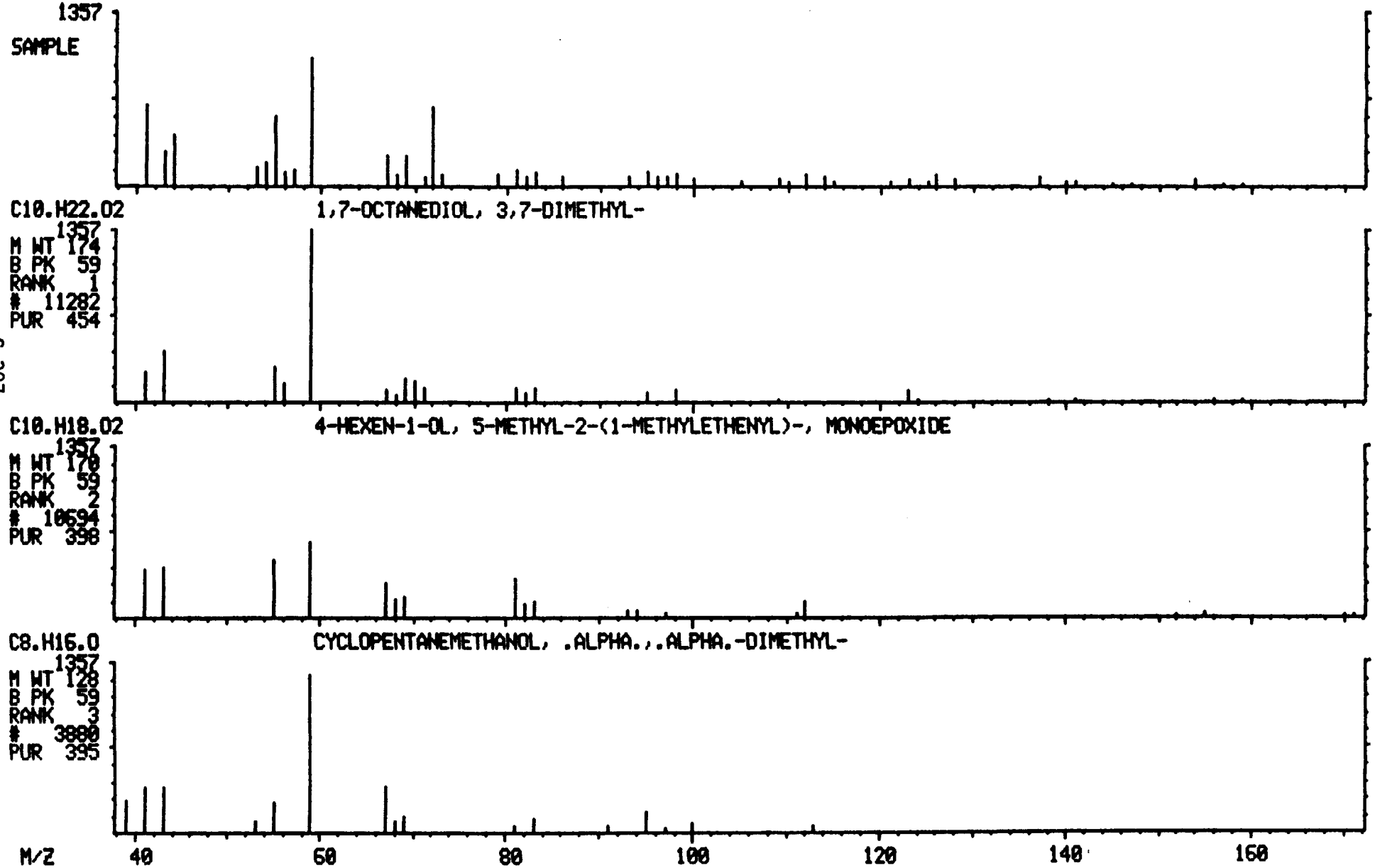
MID LIBRARY SEARCH
08/07/85 17:22:00 + 25:42
DATA: EQ300 #1542
CALI: EQ300 # 2
BASE M/Z: 41
RIC: 48959.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



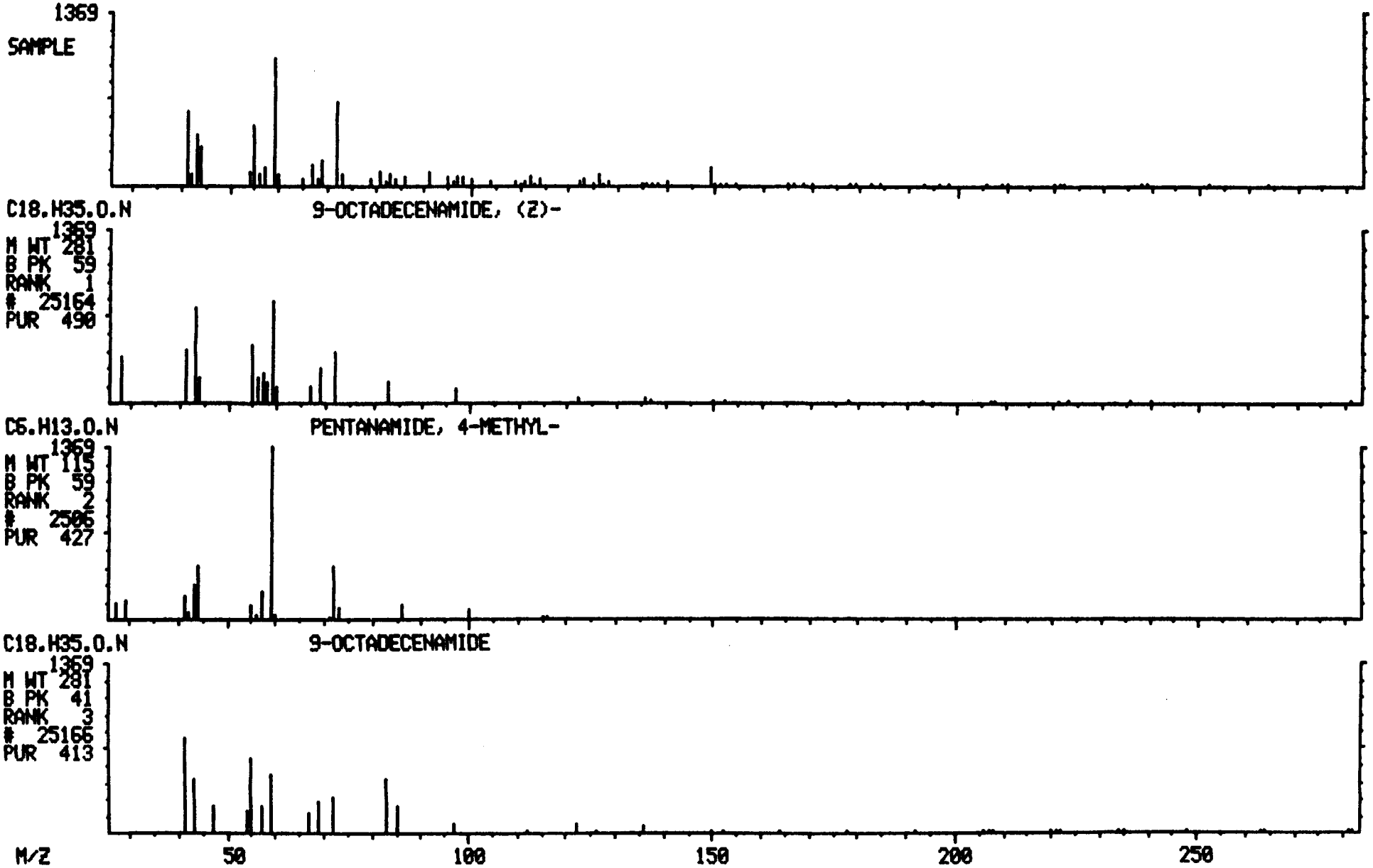
MID LIBRARY SEARCH
08/07/85 17:22:00 + 26:08
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ300 #1568
CALI: EQ300 # 2

BASE M/Z: 59
RIC: 14591.



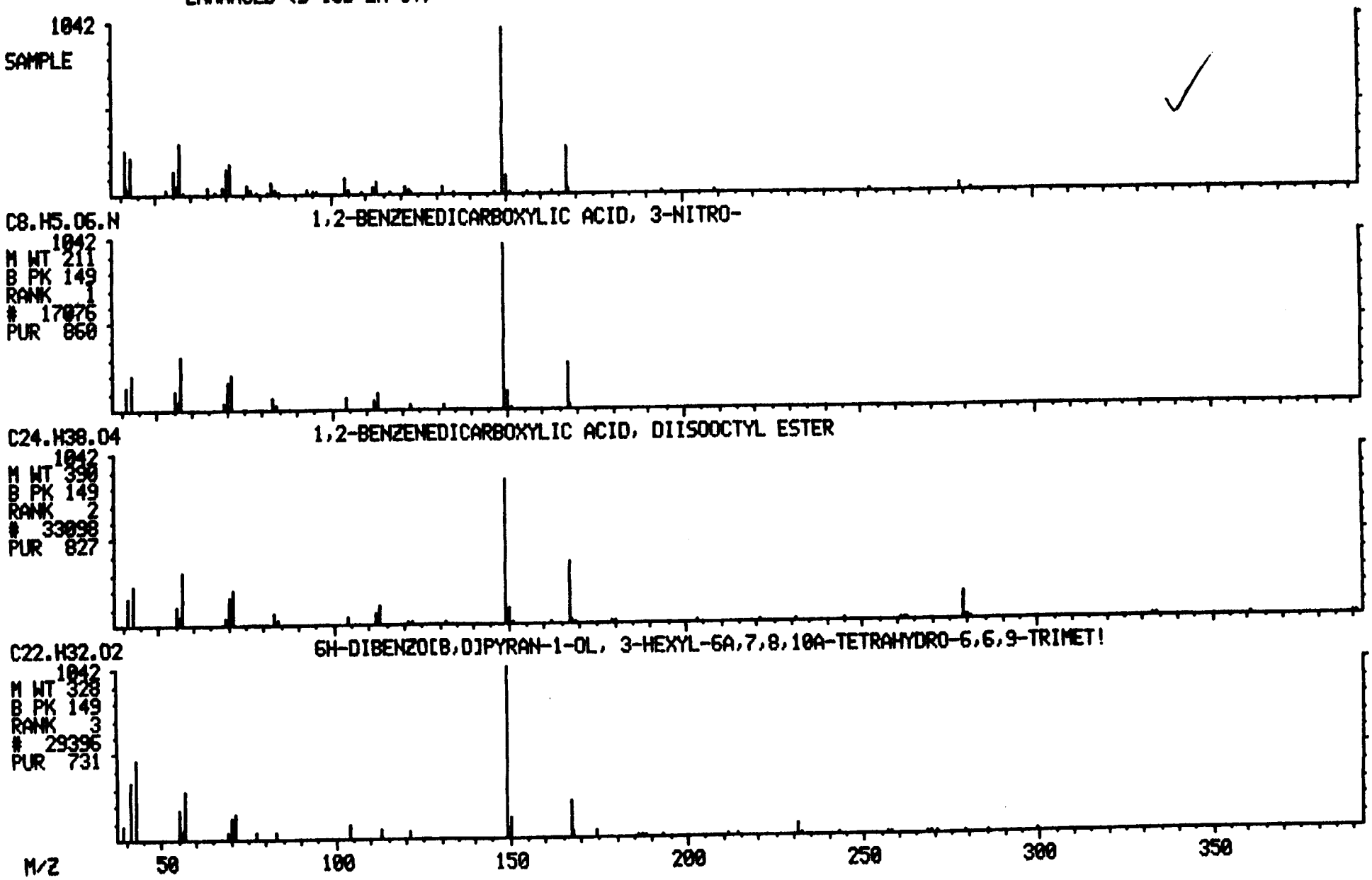
MID LIBRARY SEARCH
08/07/85 17:22:00 + 27:03
DATA: EQ308 #1623
CALI: EQ308 # 2
BASE M/Z: 59
RIC: 102271.
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

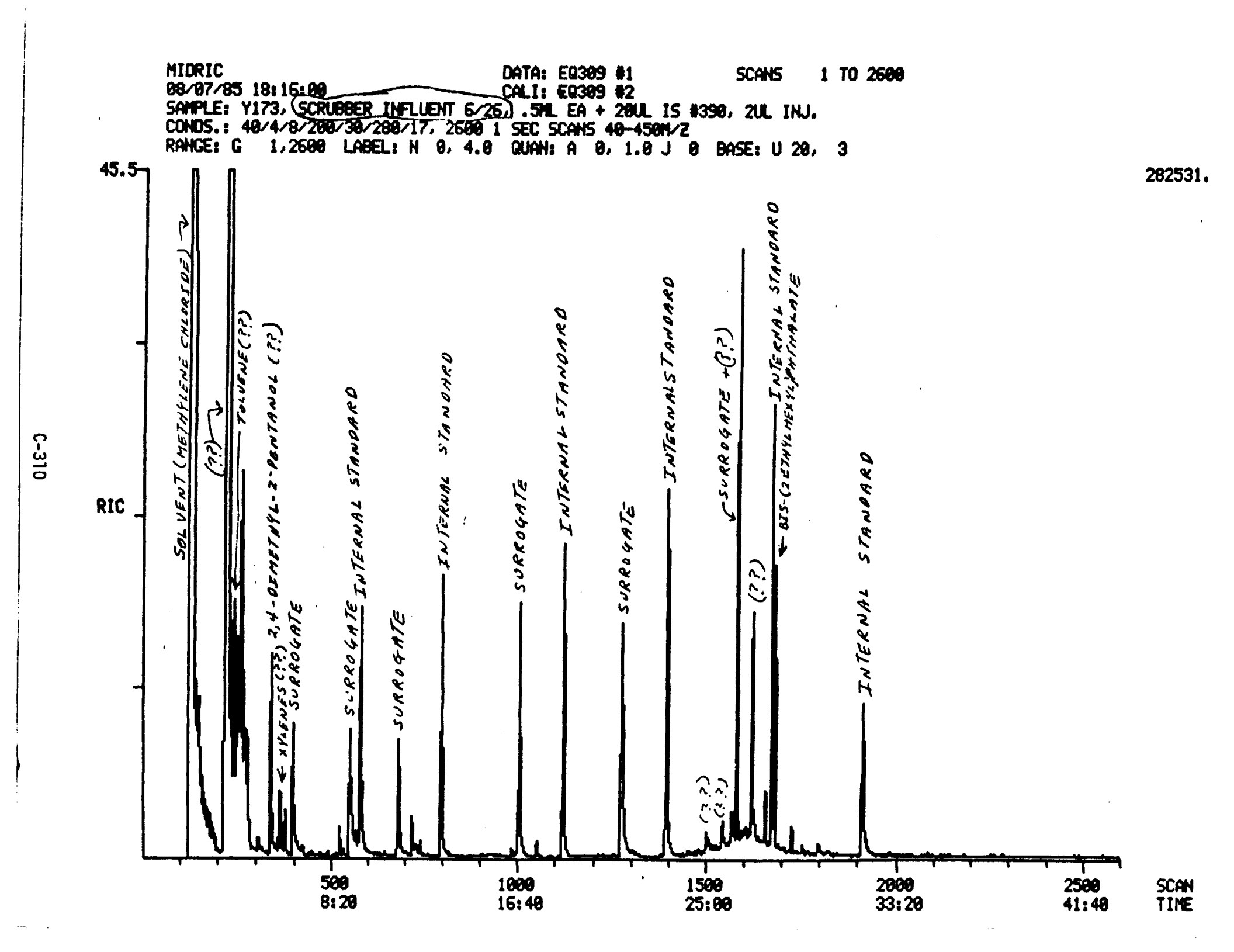


MID LIBRARY SEARCH
08/07/85 17:22:00 + 28:03
SAMPLE: Y172, SCRUBBER INFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ300 #1683
CALI: EQ300 # 2

BASE M/Z: 149
RIC: 26367.




MIDRIC
08/07/85 18:16:00
DATA: EQ309 #1
CALI: EQ309 #2
SCANS 1 TO 2600
SAMPLE: Y173, SCRUBBER INFLUENT 6/26, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
45.5
282531.
RIC
SOLVENT (METHYLENE CHLORIDE)
(??)
TOLUENE(??)
2,4-DIMETHYL-2-PENTANOL (??)
XYLENES(??)
SURROGATE
SURROGATE
INTERNAL STANDARD
SURROGATE
INTERNAL STANDARD
SURROGATE
INTERNAL STANDARD
SURROGATE +(??)
(??)
(??)
(??)
INTERNAL STANDARD
BIS-(2-ETHYLHEXYL)PHTHALATE
INTERNAL STANDARD
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

C-310

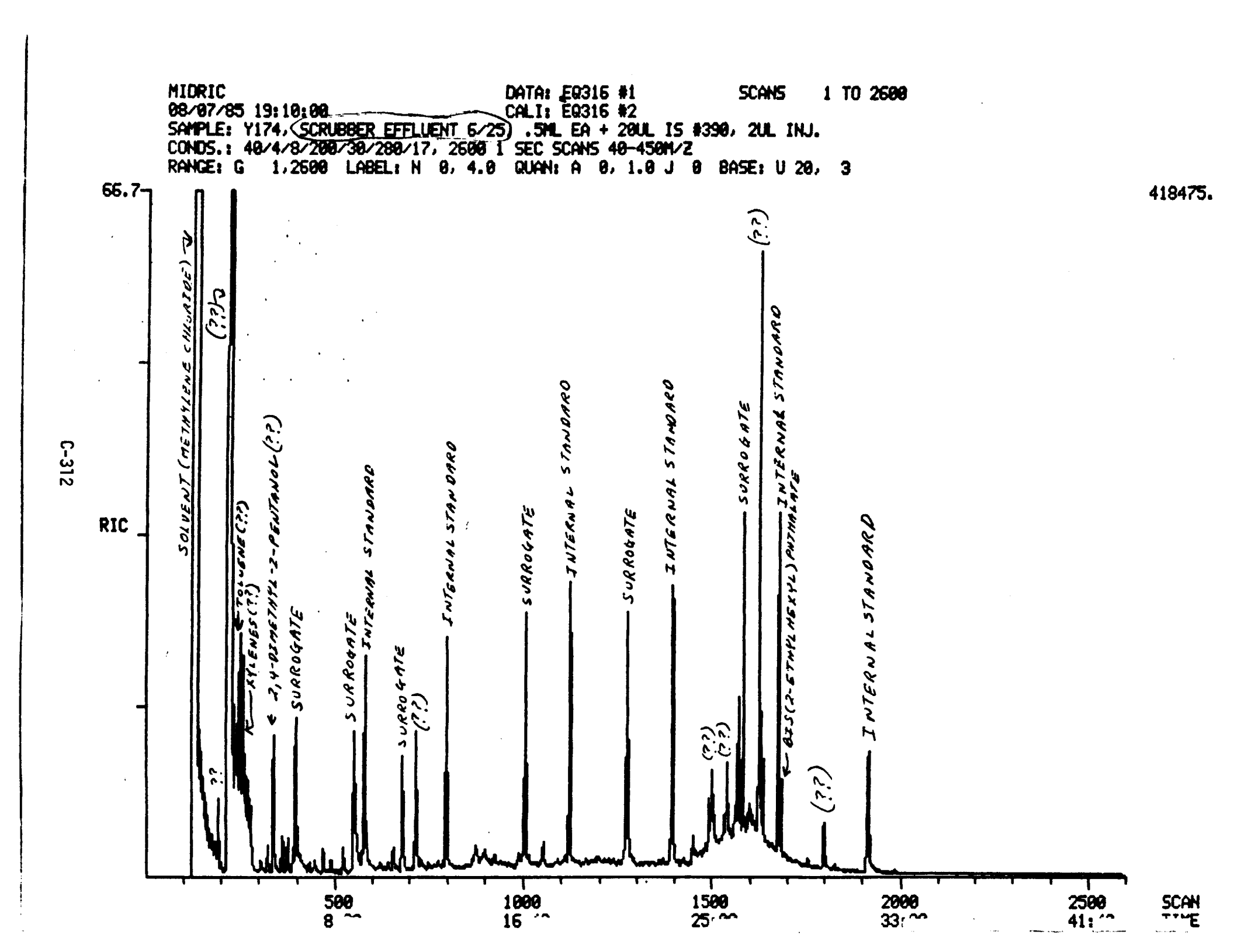
Quantitation Report File: EQ309

Data: EQ309.TI
08/07/85 18:16:00
Sample: Y173, SCRUBBER INFLUENT 6/26, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000 1000/890 ml
Resp. fac. from Library Entry

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #2: D5-PHENOL (99)
3	QC #3: D5-NITROBENZENE (82)
4	IS #2: D8-NAPHTHALENE (136)
5	IS #3: D10-ACENAPTHENE (164)
6	QC #4: 2-FLUOROBIPHENYL (172)
7	2,6-DINITROTOLUENE (165)
8	IS #4: D10-PHENANTHRENE (188)
9	QC #5: 2,4,6-TRIBROMOPHENOL (330)
10	N-NITROSODIPHENYLAMINE (169) *
11	IS #5: D12-CHRYSENE (240)
12	QC #6: D14-TERPHENYL (244)
13	BIS(2-ETHYLHEXYL)PHTHALATE (149)
14	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	579	9:39	1	1.000	A BB	63185.	80.000 PPB	5.58
2	99	551	9:11	1	0.952	A BB	96564.	127.633 PPB	8.89
3	82	680	11:20	1	1.174	A BB	70929.	92.221 PPB	6.43
4	136	799	13:19	4	1.000	A BB	198695.	80.000 PPB	5.58
5	164	1122	18:42	5	1.000	A BB	101577.	80.000 PPB	5.58
6	172	1006	16:46	5	0.897	A BB	126490.	99.590 PPB	6.94
7	165	1122	18:42	5	1.000	A BB	12581.	268.819 PPB	18.73 I.S.
8	188	1395	23:15	8	1.000	A BB	200370.	80.000 PPB	5.58
9	330	1273	21:13	8	0.913	A BB	63374.	240.136 PPB	16.74
10	169	1256	20:56	8	0.900	A BB	1953.	2.021 PPB	0.14
11	240	1675	27:55	11	1.000	A BB	162523.	80.000 PPB	5.58
12	244	1582	26:22	11	0.944	A BB	133997.	92.301 PPB	6.43
13	149	1684	28:04	11	1.005	A BB	77286.	32.209 PPB 36	2.24
14	264	1914	31:54	14	1.000	A BB	133376.	80.000 PPB	5.58


MIDRIC
08/07/85 19:10:00
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25 .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: EQ316 #1
CALI: EQ316 #2
SCANS 1 TO 2600
66.7
418475.
RIC
C-312
SOLVENT (METHYLENE CHLORIDE)
(??)
??
TOLUENE(??)
XYLENES(??)
2,4-DIMETHYL-2-PENTANOL(??)
SURROGATE
SURROGATE
INTERNAL STANDARD
SURROGATE
(??)
INTERNAL STANDARD
SURROGATE
INTERNAL STANDARD
SURROGATE
INTERNAL STANDARD
BIS(2-ETHYLHEXYL)PHTHALATE
(??)
(??)
(??)
(??)
INTERNAL STANDARD
500
1000
1500
2000
2500
SCAN

Quantitation Report File: EQ316

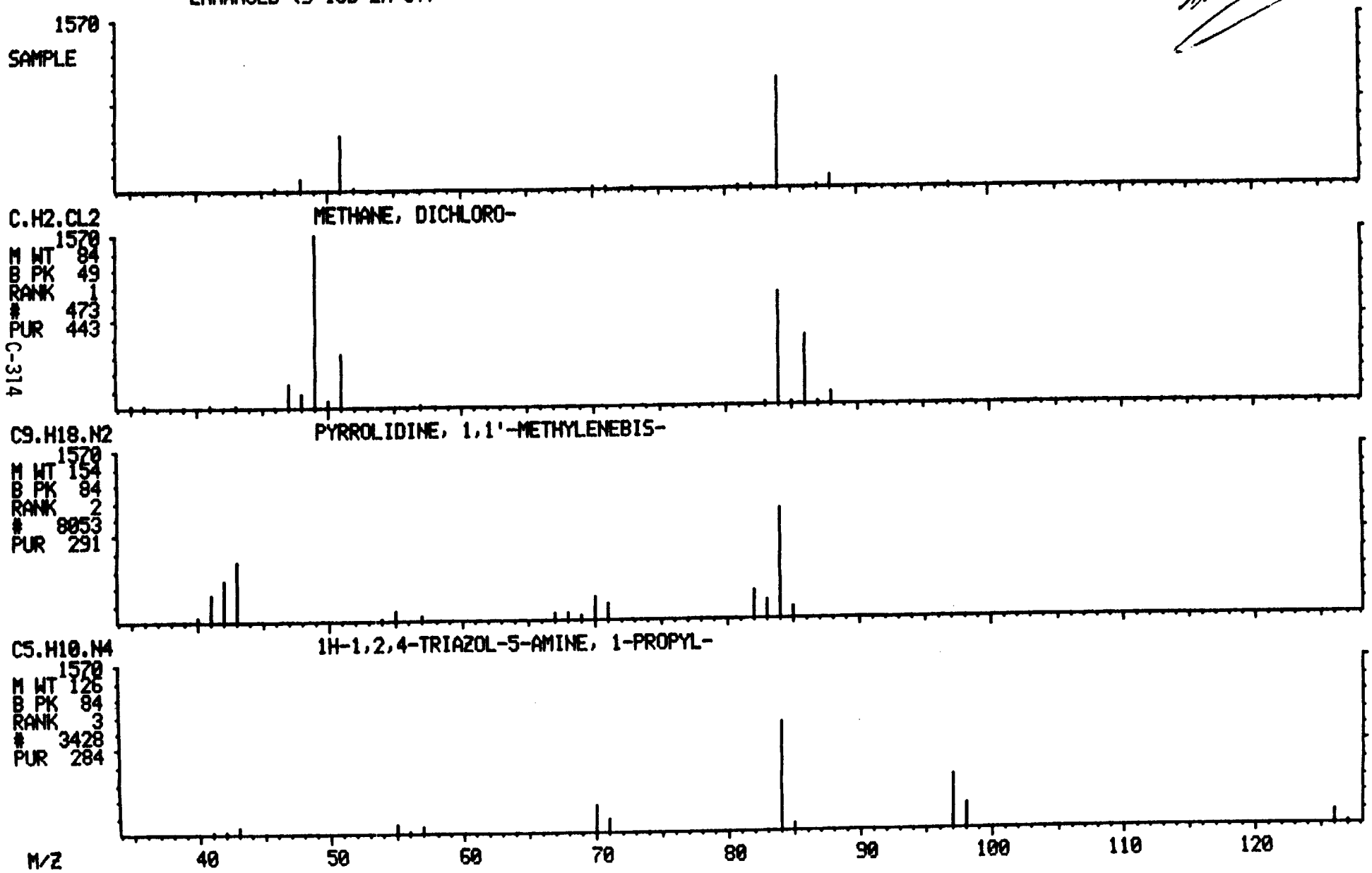
Data: EQ316.TI
08/07/85 19:10:00
Sample: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000 1000ml/100ml
Resp. fac. from Library Entry

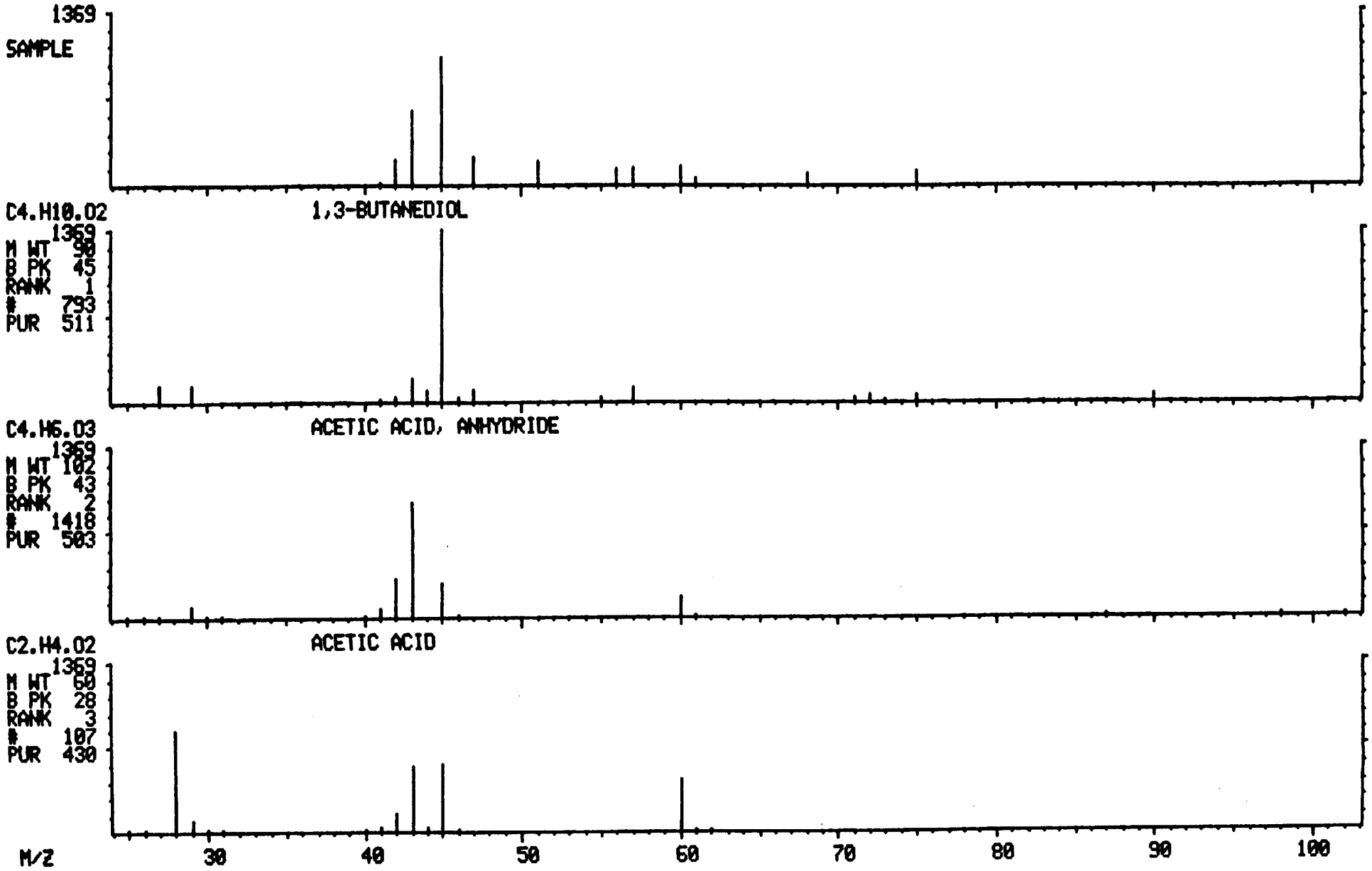
NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #2: D5-PHENOL (99)
3	QC #3: D5-NITROBENZENE (82)
4	NITROBENZENE (77)
5	IS #2: D8-NAPHTHALENE (136)
6	IS #3: D10-ACENAPTHENE (164)
7	QC #4: 2-FLUOROBIPHENYL (172)
8	2,6-DINITROTOLUENE (165)
9	IS #4: D10-PHENANTHRENE (188)
10	QC #5: 2,4,6-TRIBROMOPHENOL (330)
11	N-NITROSODIPHENYLAMINE (169) *
12	IS #5: D12-CHRYSENE (240)
13	QC #6: D14-TERPHENYL (244)
14	BUTYLBENZYLPHTHALATE (149)
15	BIS(2-ETHYLHEXYL)PHTHALATE (149)
16	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	579	9:39	1	1.000	A BB	65876.	80.000 PPB	5.21
2	99	551	9:11	1	0.952	A BB	149385.	189.384 PPB	12.32
3	82	680	11:20	1	1.174	A BV	88251.	110.055 PPB	7.16
4	77	683	11:23	1	1.180	A BB	3267.	2.424 PPB	0.16
5	136	799	13:19	5	1.000	A BB	230256.	80.000 PPB	5.21
6	164	1123	18:43	6	1.000	A BB	115097.	80.000 PPB	5.21
7	172	1006	16:46	6	0.896	A BB	155604.	108.122 PPB	7.04
8	165	1123	18:43	6	1.000	A BB	13999.	263.978 PPB	17.18 I.S.
9	188	1395	23:15	9	1.000	A BB	212775.	80.000 PPB	5.21
10	330	1273	21:13	9	0.913	A BB	83021.	296.240 PPB	19.28
11	169	1254	20:54	9	0.899	A BB	3171.	3.091 PPB	0.20
12	240	1677	27:57	12	1.000	A BB	170349.	80.000 PPB	5.21
13	244	1583	26:23	12	0.944	A BB	102626.	67.444 PPB	4.39
14	149	1625	27:05	12	0.969	A BB	6728.	3.468 PPB	0.23
15	149	1686	28:06	12	1.005	A VB	31214.	12.411 PPB	0.81
16	264	1916	31:56	16	1.000	A BB	151313.	80.000 PPB	5.21

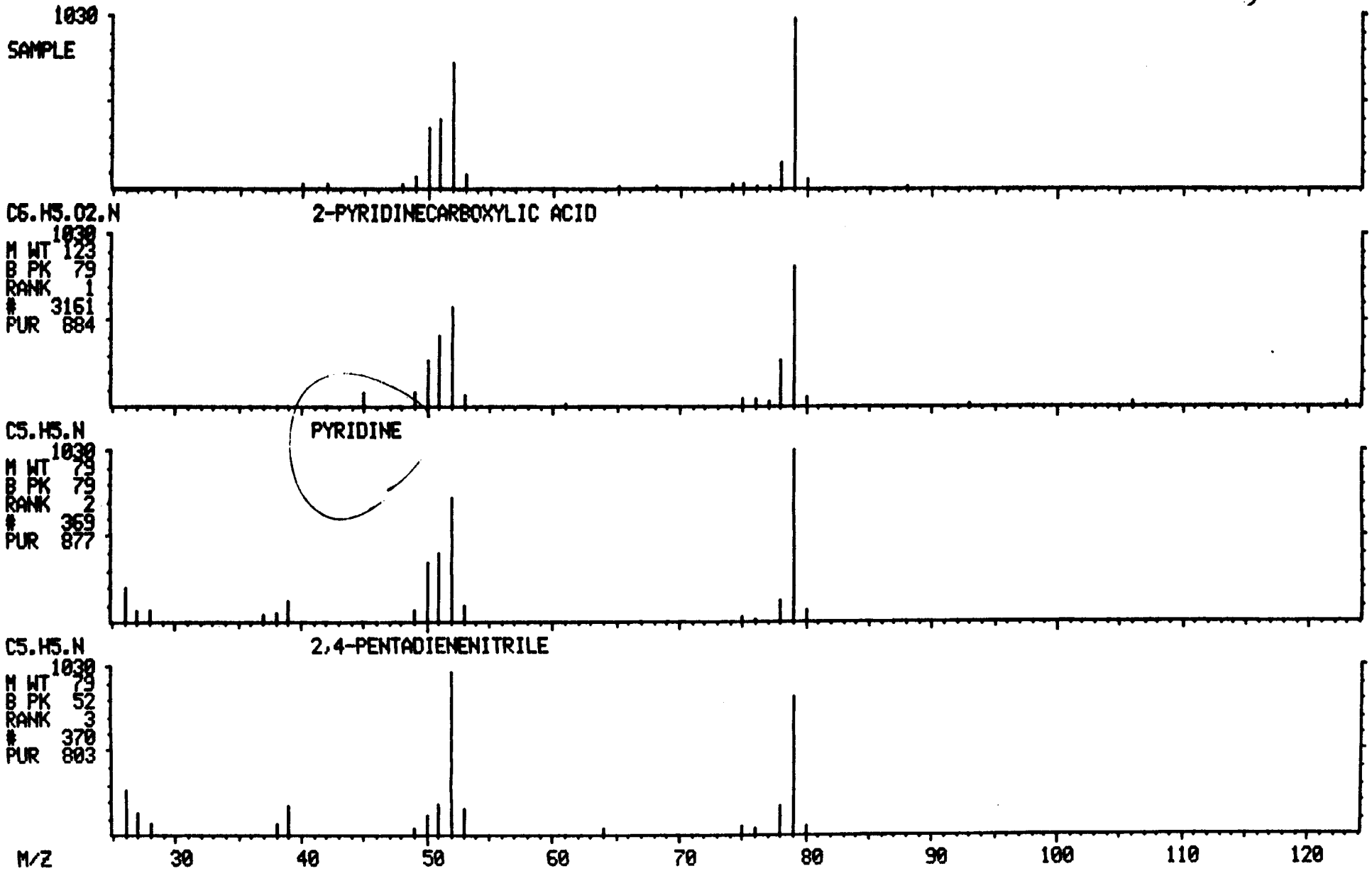
MID LIBRARY SEARCH
08/07/85 19:10:00 + 2:16
DATA: EQ316 # 136
CALI: EQ316 # 2
BASE M/Z: 84
RIC: 172799.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



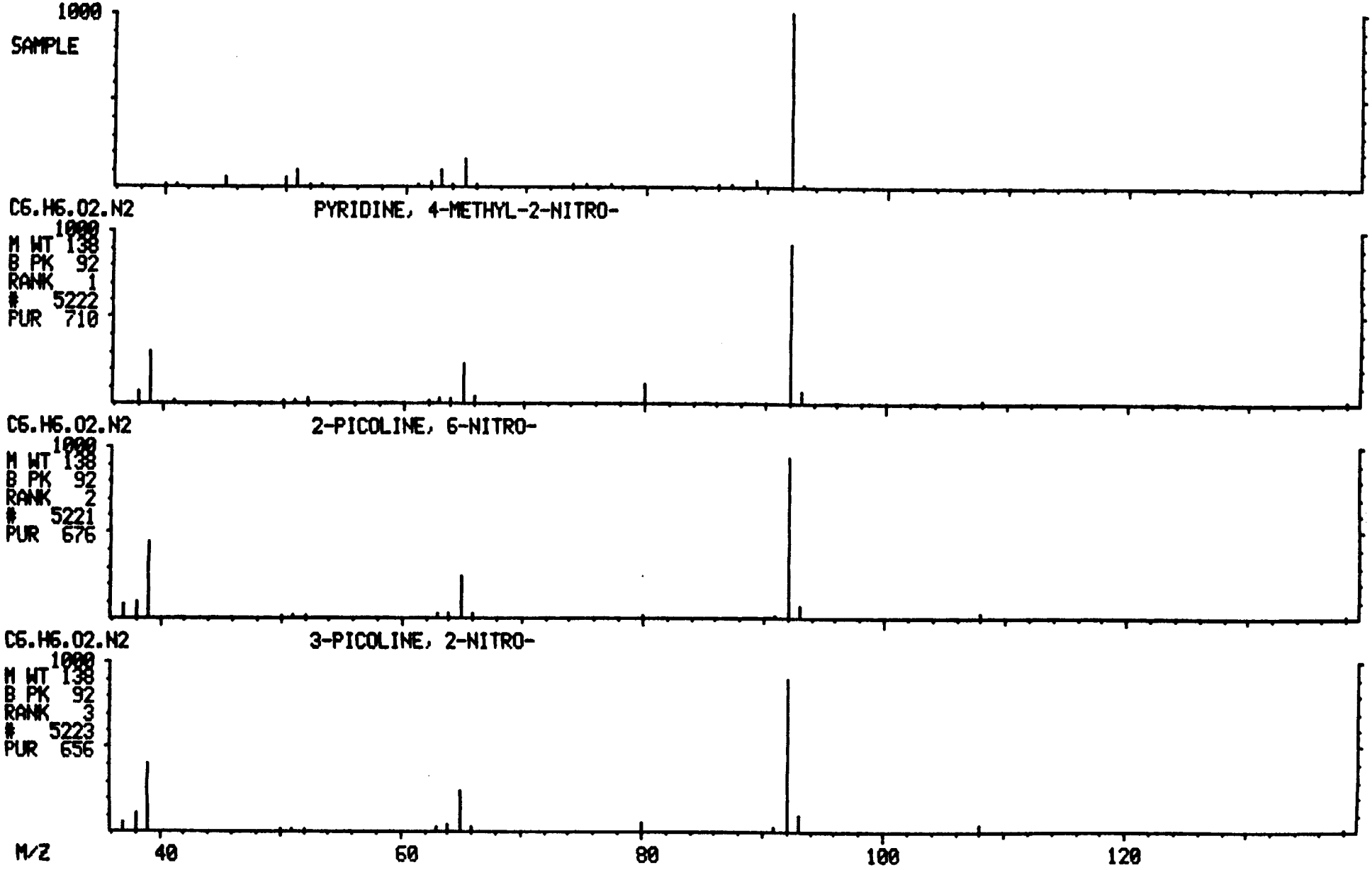
MID LIBRARY SEARCH
08/07/85 19:10:00 + 2:32
DATA: EQ316 # 152
CALI: EQ316 # 2
BASE M/Z: 45
RIC: 3171.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (5 15B 2N 0T)



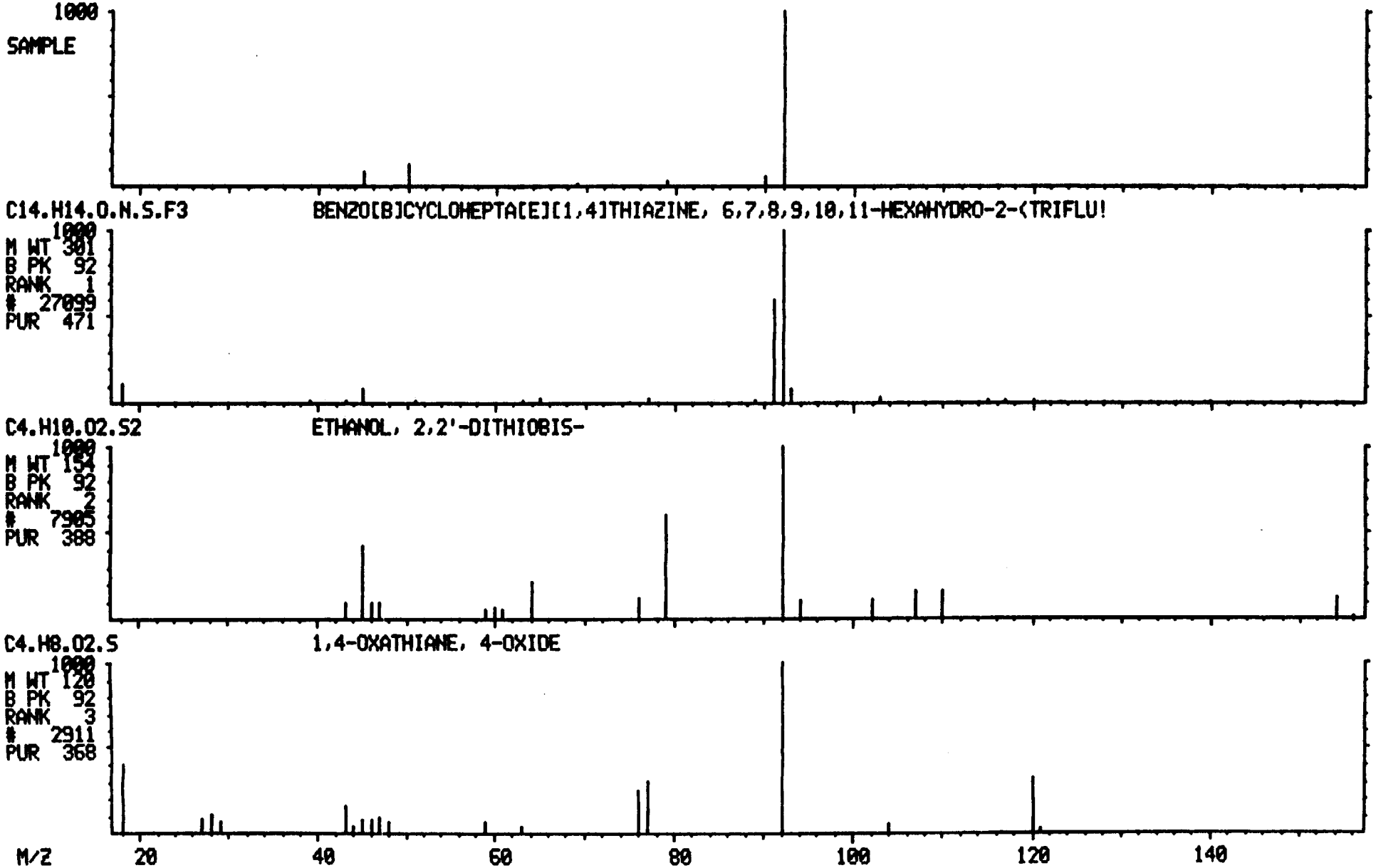
MID LIBRARY SEARCH
08/07/85 19:10:00 + 3:13
DATA: EQ316 # 193
CALI: EQ316 # 2
BASE M/Z: 79
RIC: 32063.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



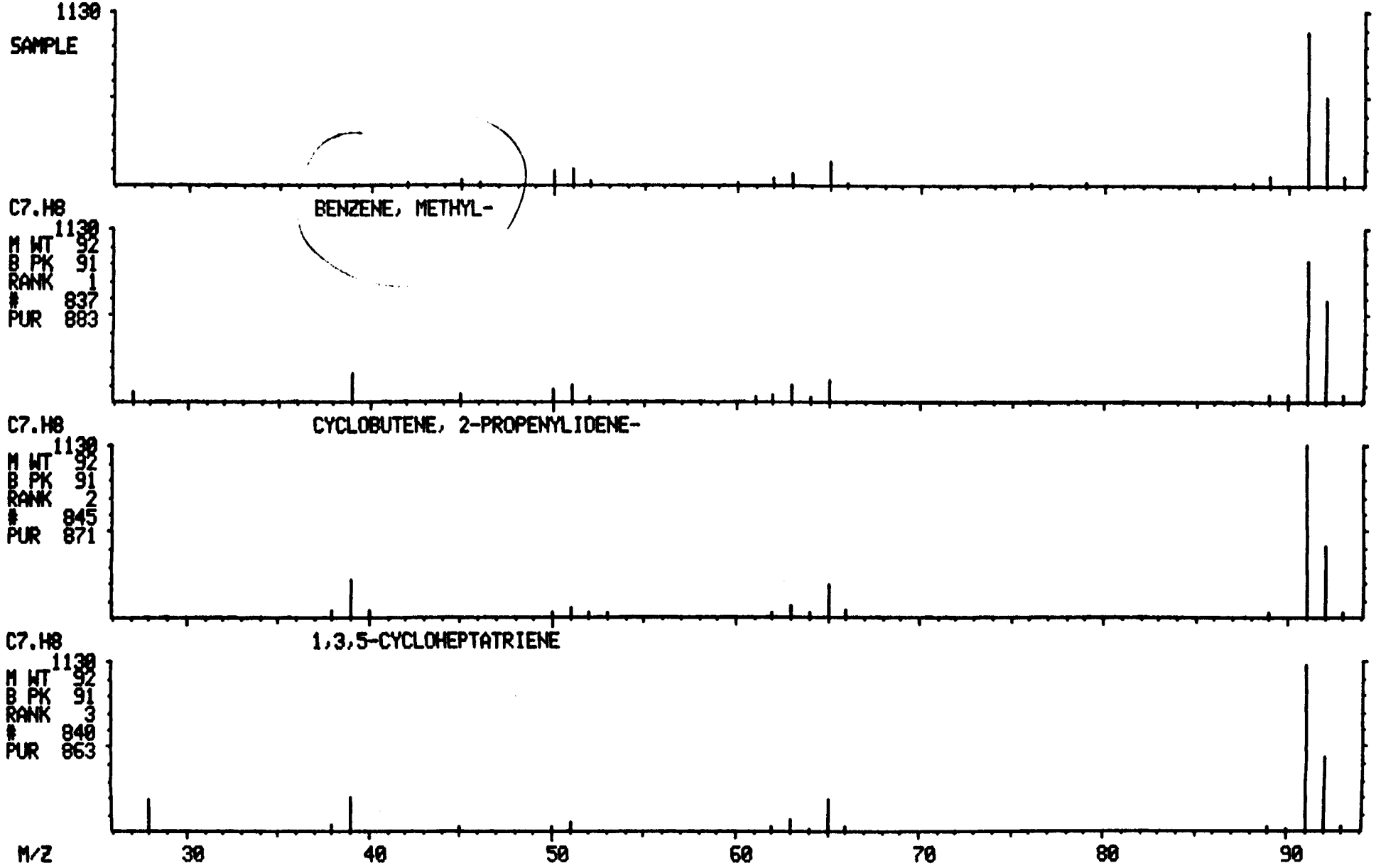
MID LIBRARY SEARCH
08/07/85 19:10:00 + 3:39
DATA: EQ316 # 219
CALI: EQ316 # 2
BASE M/Z: 92
RIC: 221439.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



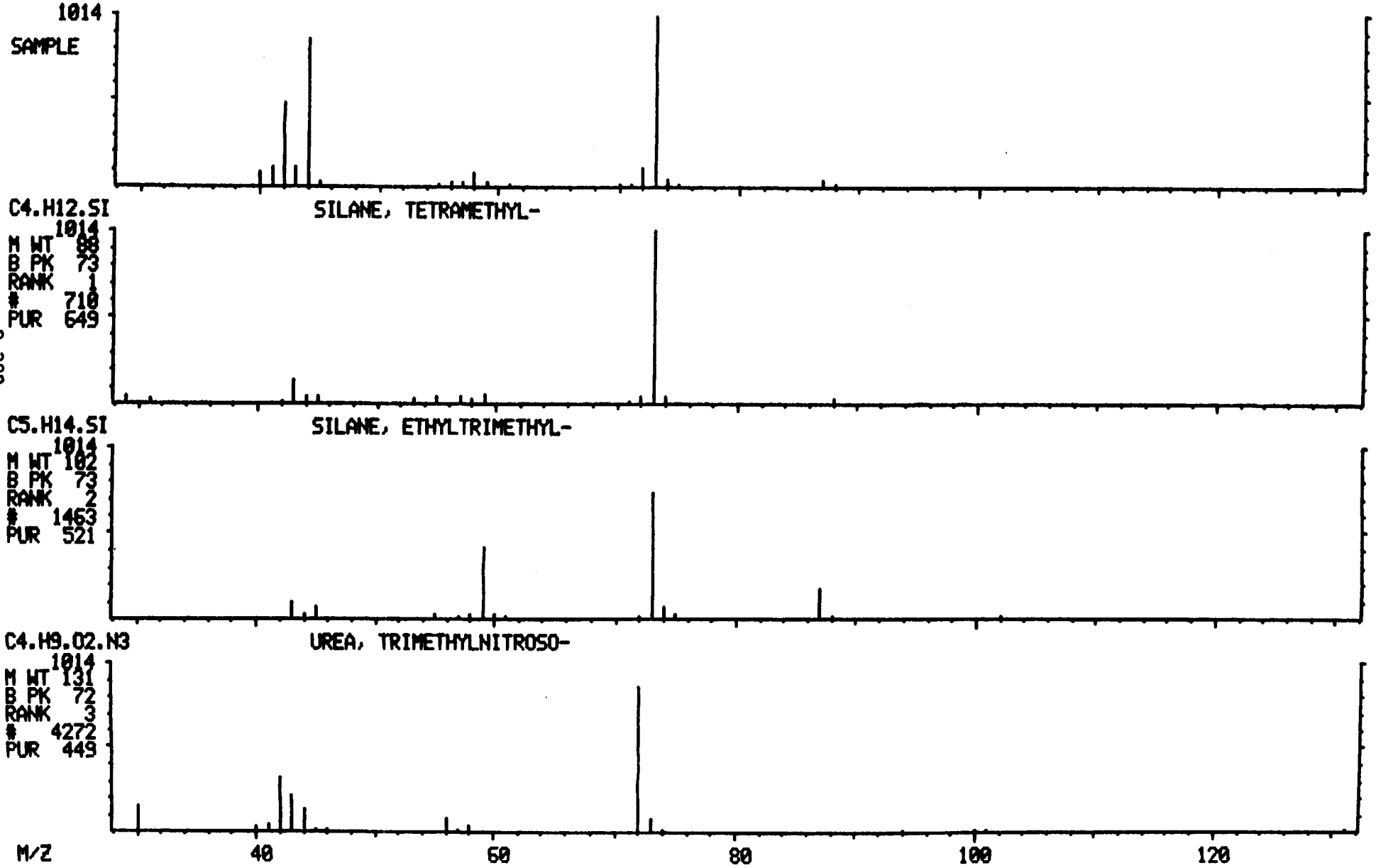
MID LIBRARY SEARCH
08/07/85 19:10:00 + 3:56
DATA: EQ316 # 236
CALI: EQ316 # 2
BASE M/Z: 92
RIC: 2703.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



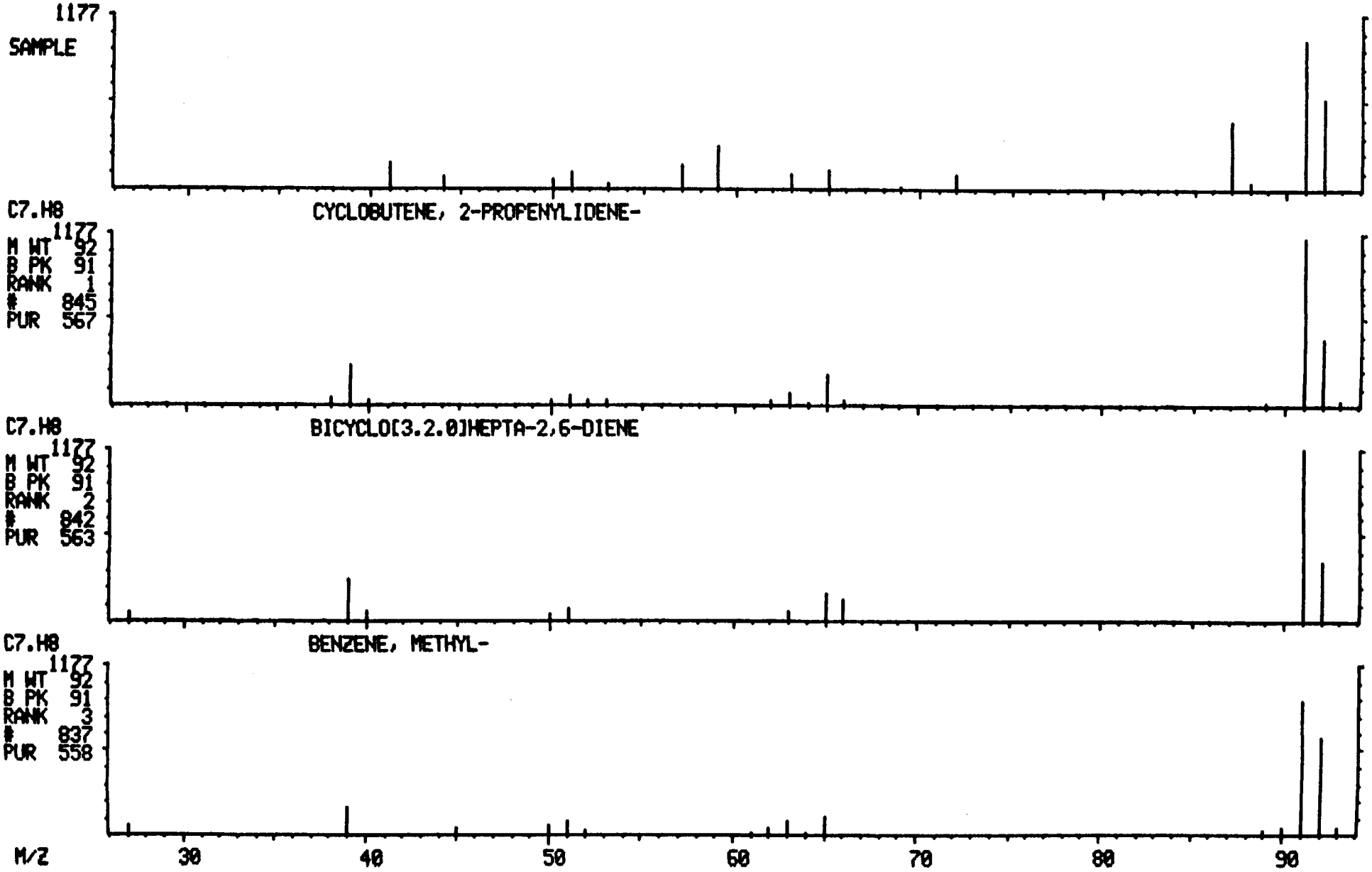
MID LIBRARY SEARCH
08/07/85 19:10:00 + 4:03
DATA: EQ316 # 243
CALI: EQ316 # 2
BASE M/Z: 91
RIC: 18239.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



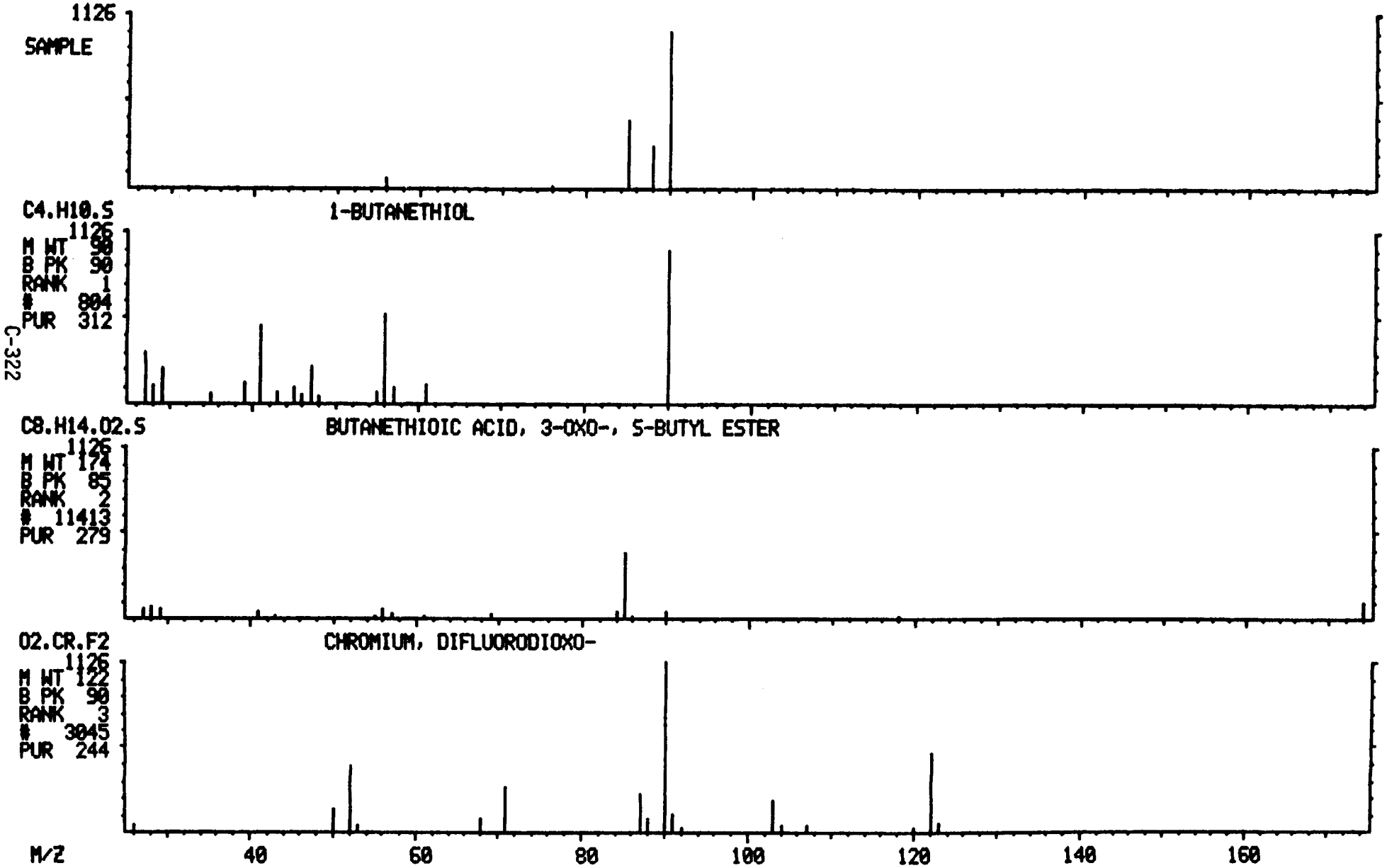
MID LIBRARY SEARCH
08/07/85 19:10:00 + 4:09
DATA: EQ316 # 249
CALI: EQ316 # 2
BASE M/Z: 73
RIC: 68863.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



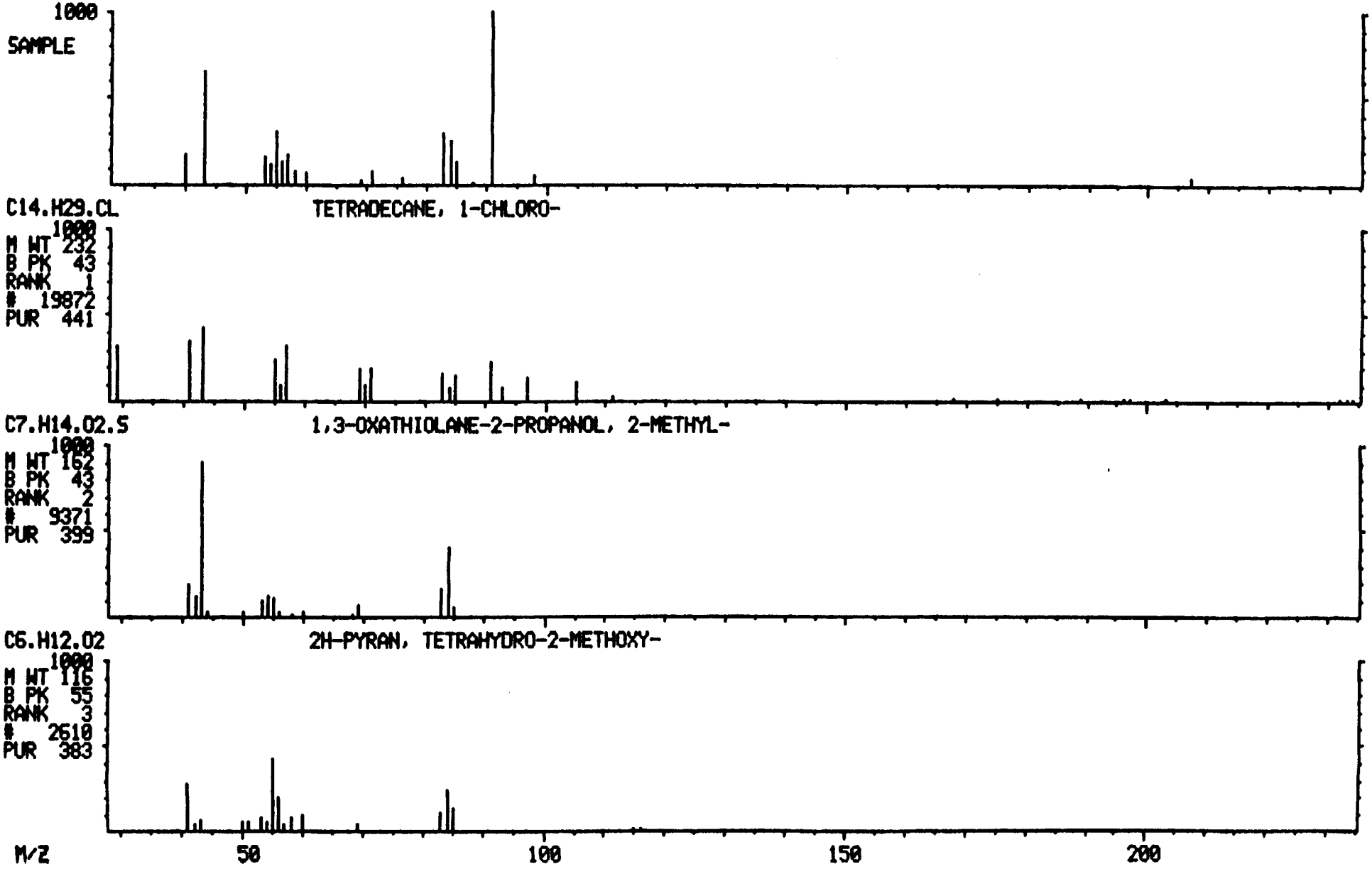
MID LIBRARY SEARCH
08/07/85 19:10:00 + 4:24
DATA: EQ316 # 264
CALI: EQ316 # 2
BASE M/Z: 91
RIC: 7375.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



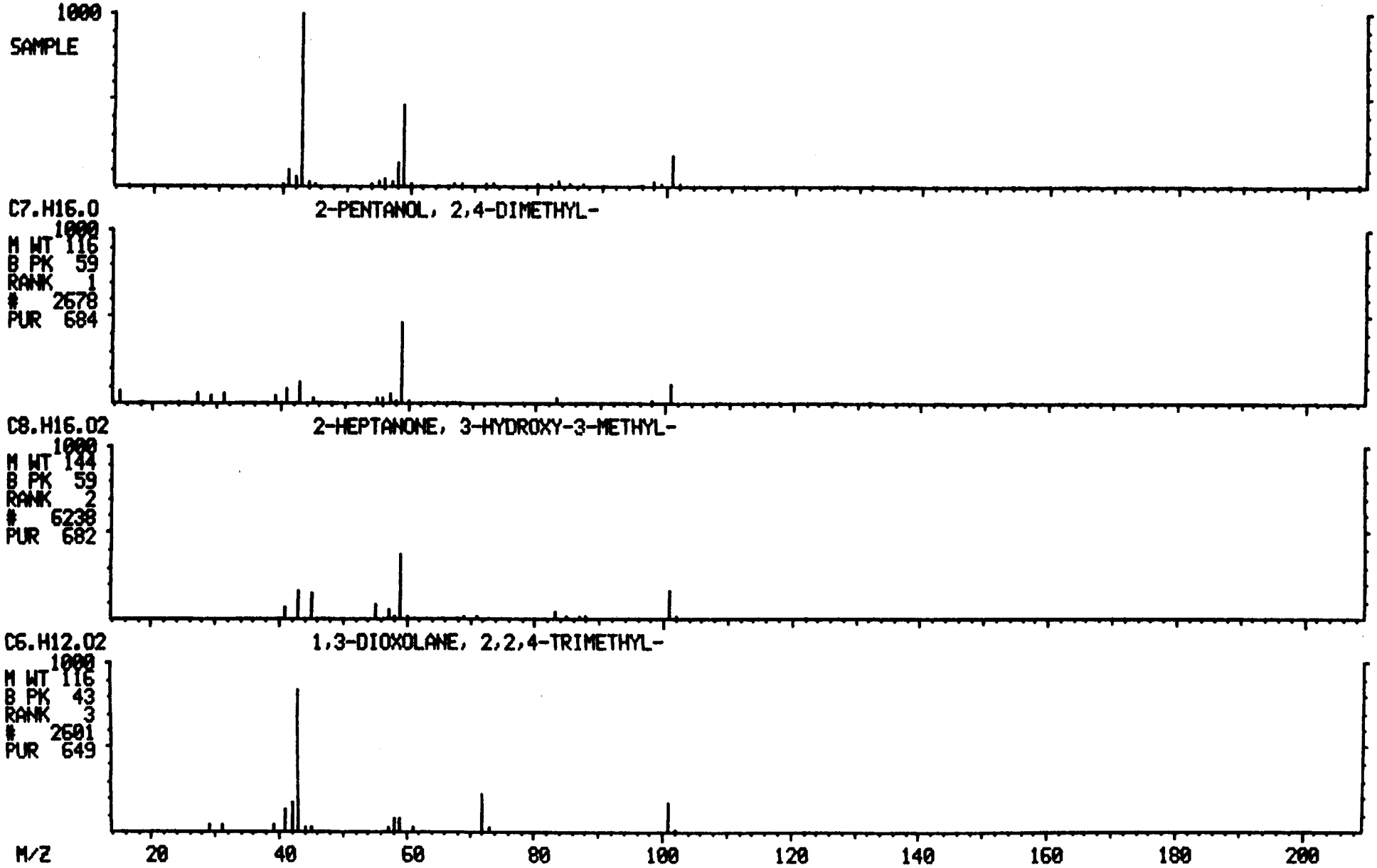
MID LIBRARY SEARCH
08/07/85 19:10:00 + 4:28
DATA: EQ316 # 268
CALI: EQ316 # 2
BASE M/Z: 90
RIC: 356.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



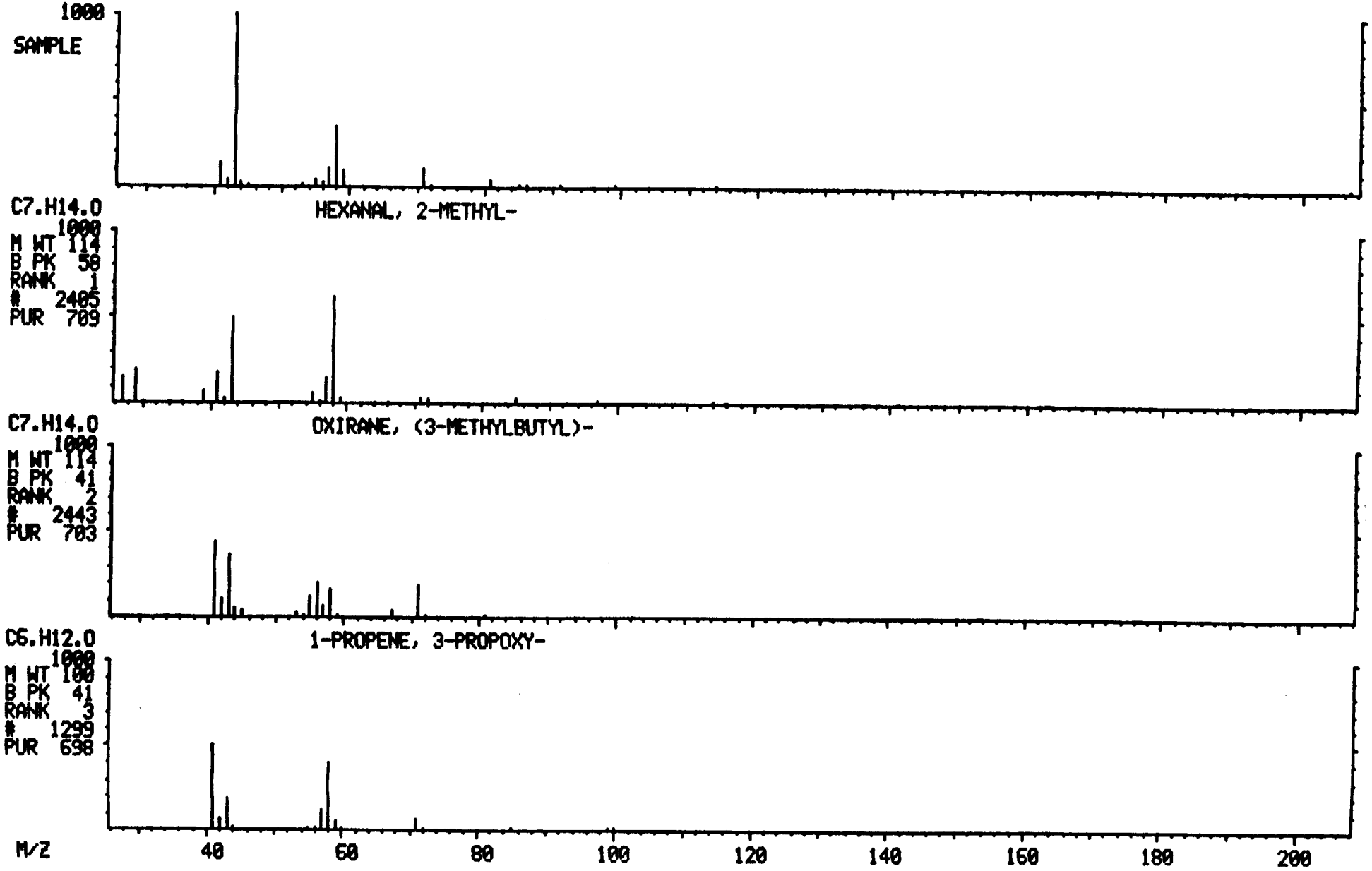
MID LIBRARY SEARCH
08/07/85 19:10:00 + 4:32
DATA: EQ316 # 272
CALI: EQ316 # 2
BASE M/Z: 91
RIC: 4019.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



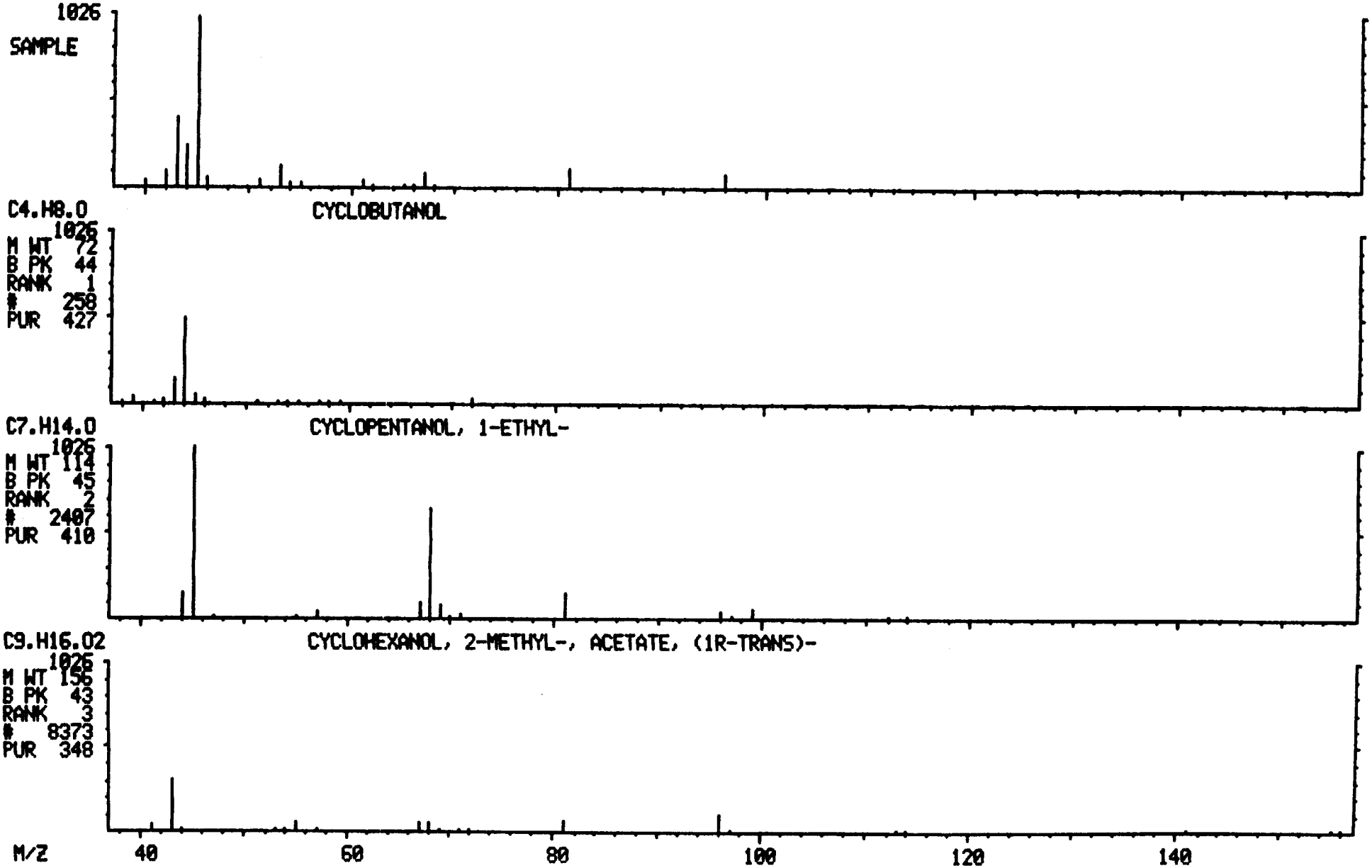
MID LIBRARY SEARCH
08/07/85 19:10:00 + 5:40
DATA: EQ316 # 340
CALI: EQ316 # 2
BASE M/Z: 43
RIC: 69887.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



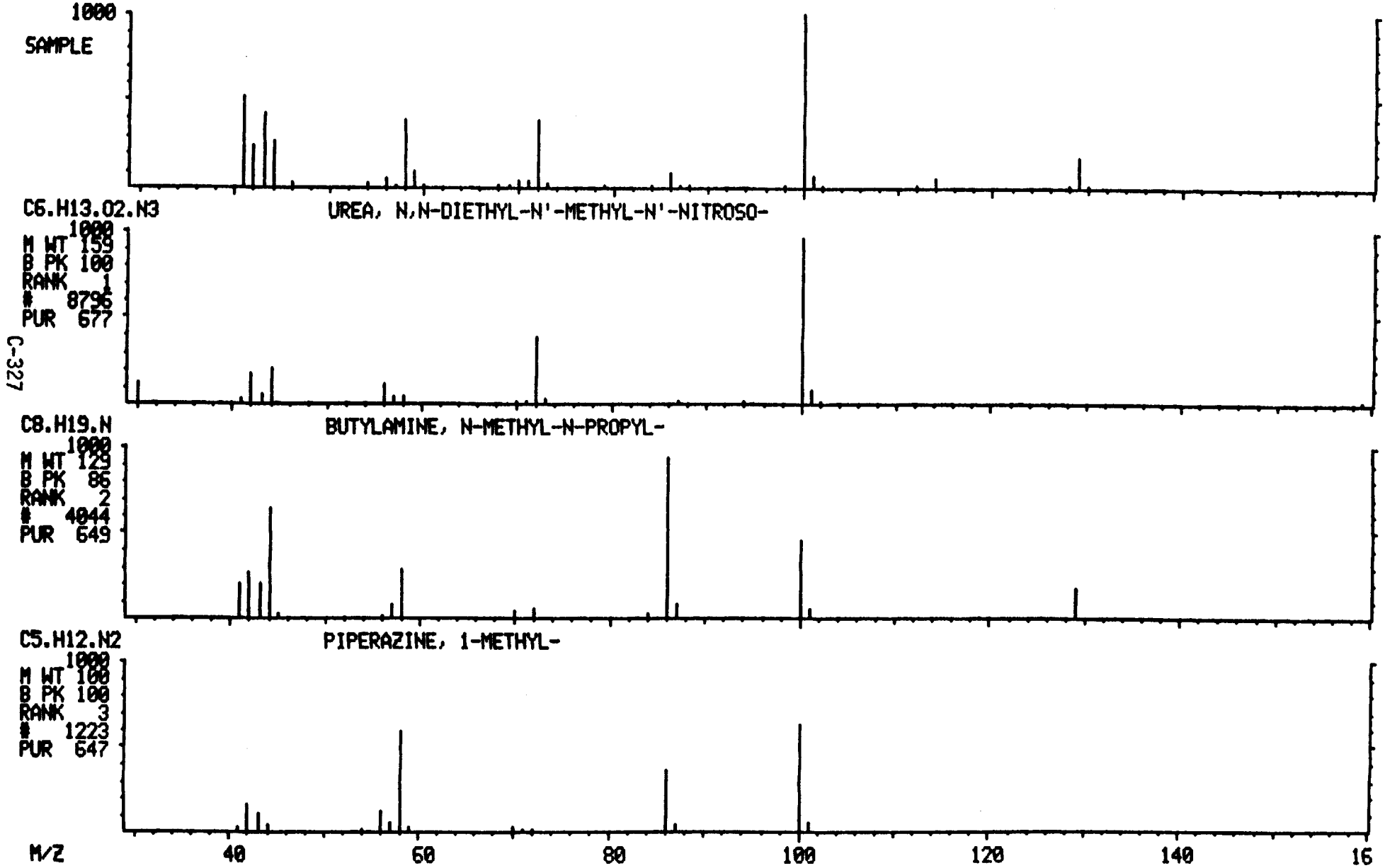
MID LIBRARY SEARCH
08/07/85 19:10:00 + 6:04
DATA: EQ316 # 364
CALI: EQ316 # 2
BASE M/Z: 43
RIC: 20959.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



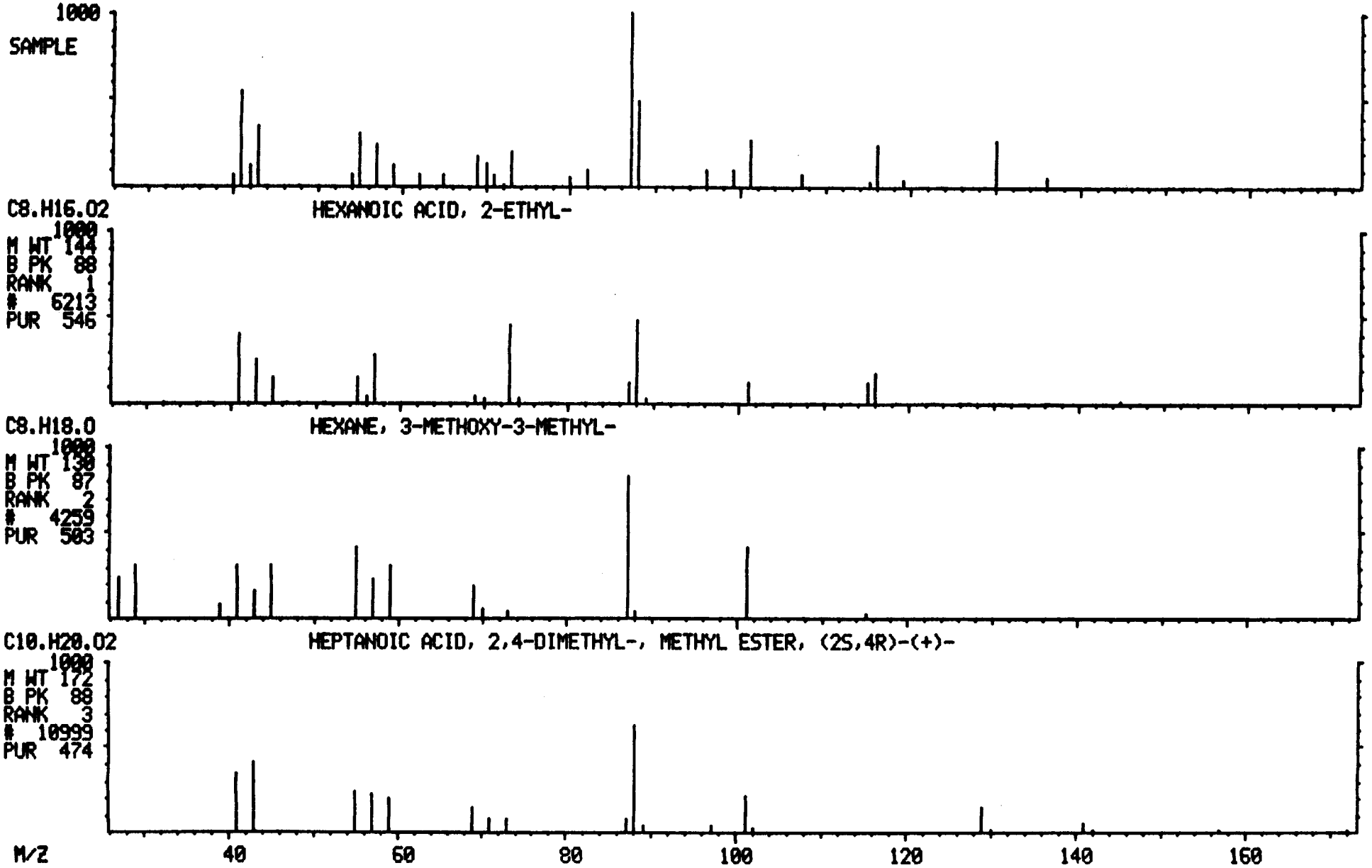
MID LIBRARY SEARCH
08/07/85 19:10:00 + 6:31
DATA: EQ316 # 391
CALI: EQ316 # 2
BASE M/Z: 45
RIC: 11023.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



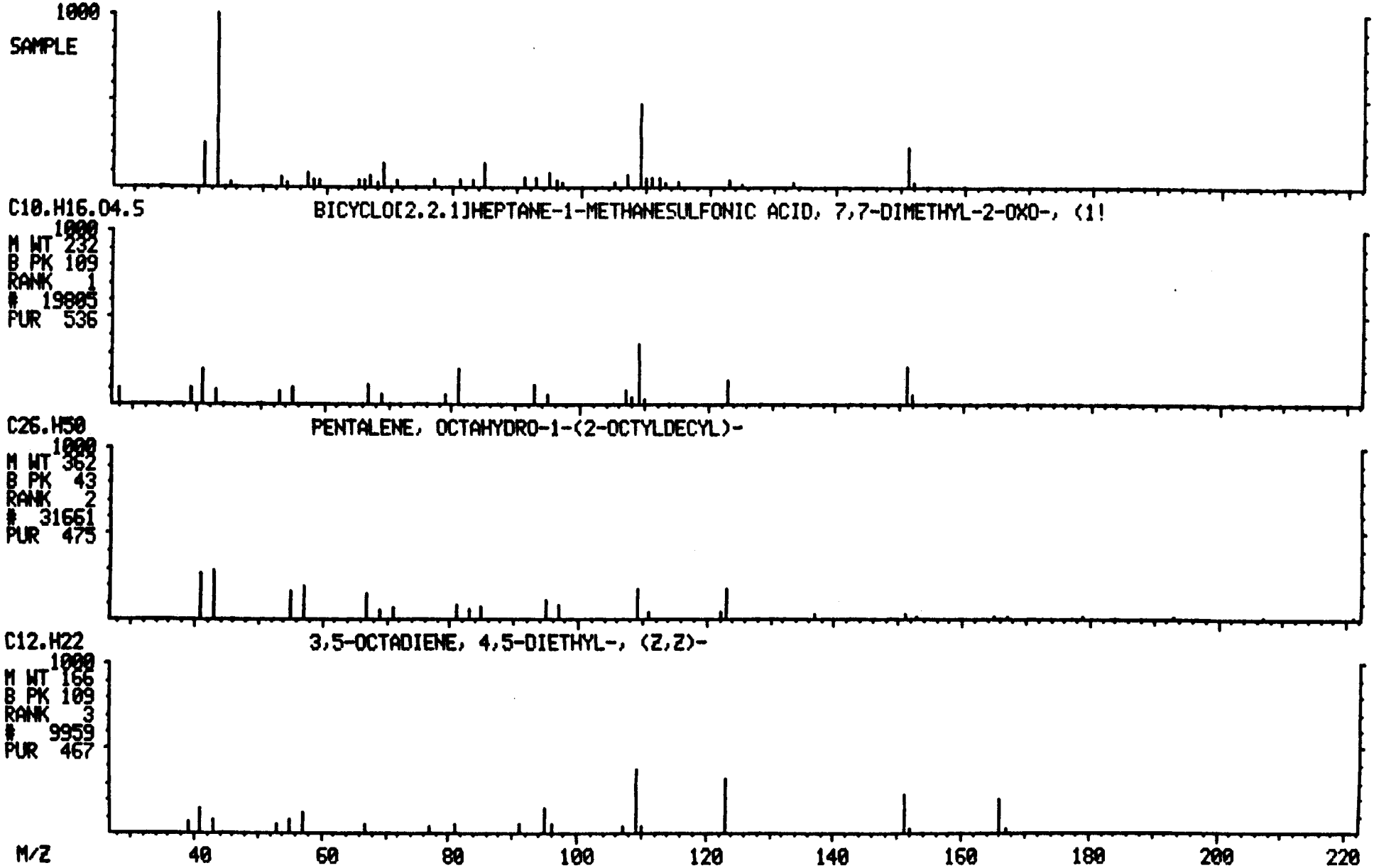
MID LIBRARY SEARCH
08/07/85 19:10:00 + 11:57
DATA: EQ316 # 717
CALI: EQ316 # 2
BASE M/Z: 100
RIC: 77567.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



MID LIBRARY SEARCH
08/07/85 19:10:00 + 15:02
DATA: EQ316 # 902
CALI: EQ316 # 2
BASE M/Z: 87
RIC: 5559.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



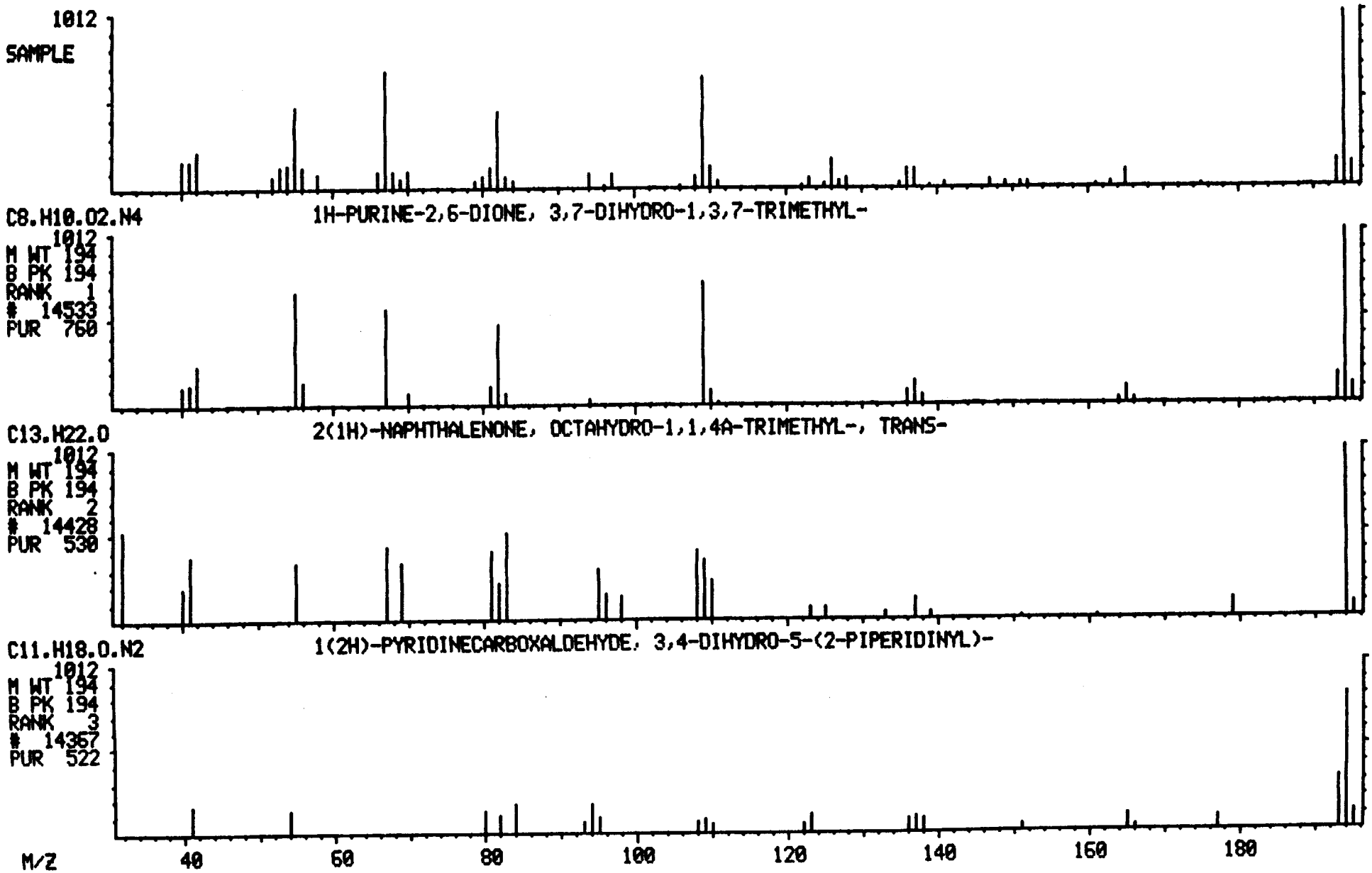
MID LIBRARY SEARCH
08/07/85 19:10:00 + 17:35
DATA: EQ316 #1055
CALI: EQ316 # 2
BASE M/Z: 43
RIC: 12175.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



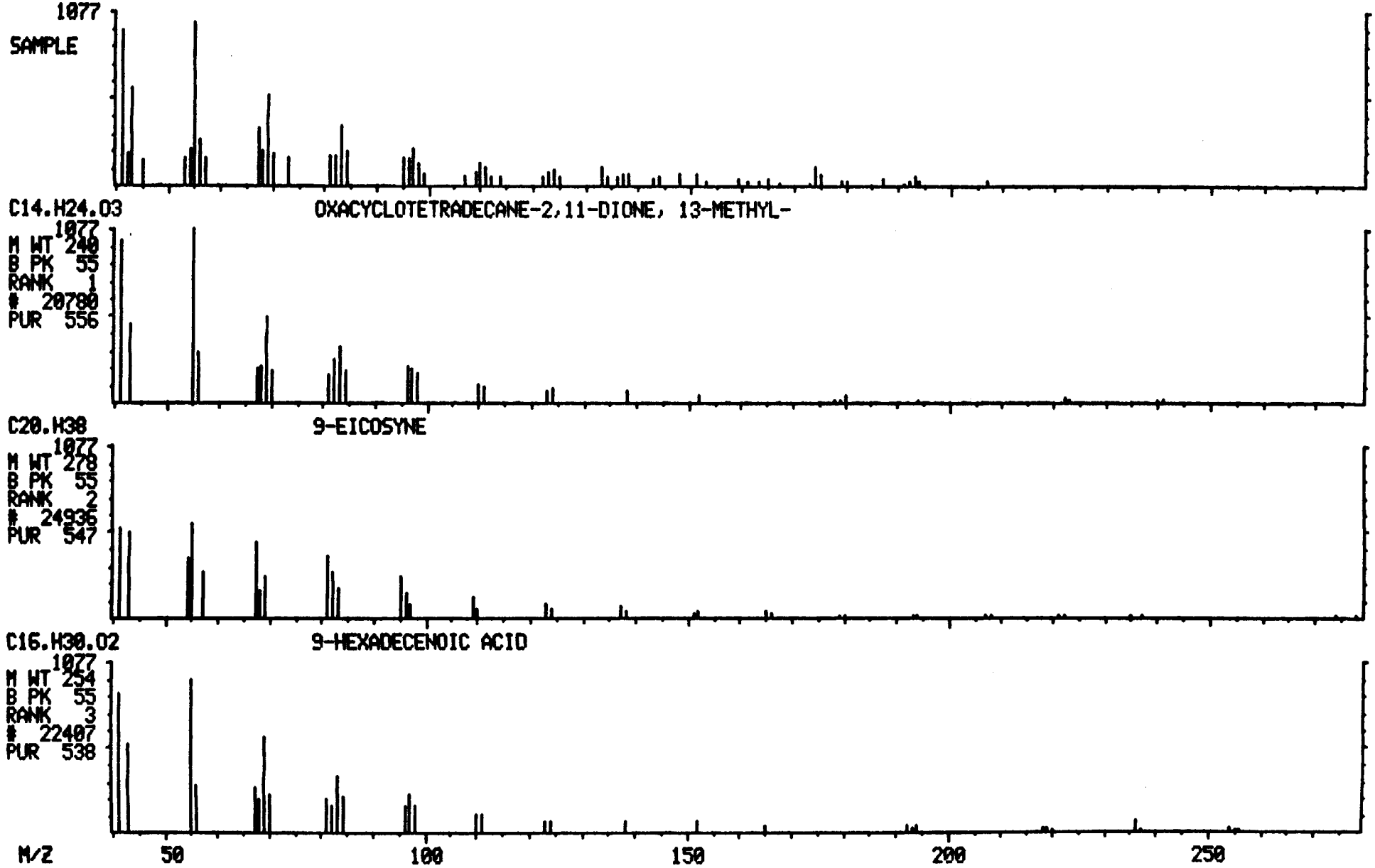
MID LIBRARY SEARCH
08/07/85 19:10:00 + 24:11
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ316 #1451
CALI: EQ316 # 2

BASE M/Z: 194
RIC: 13679.



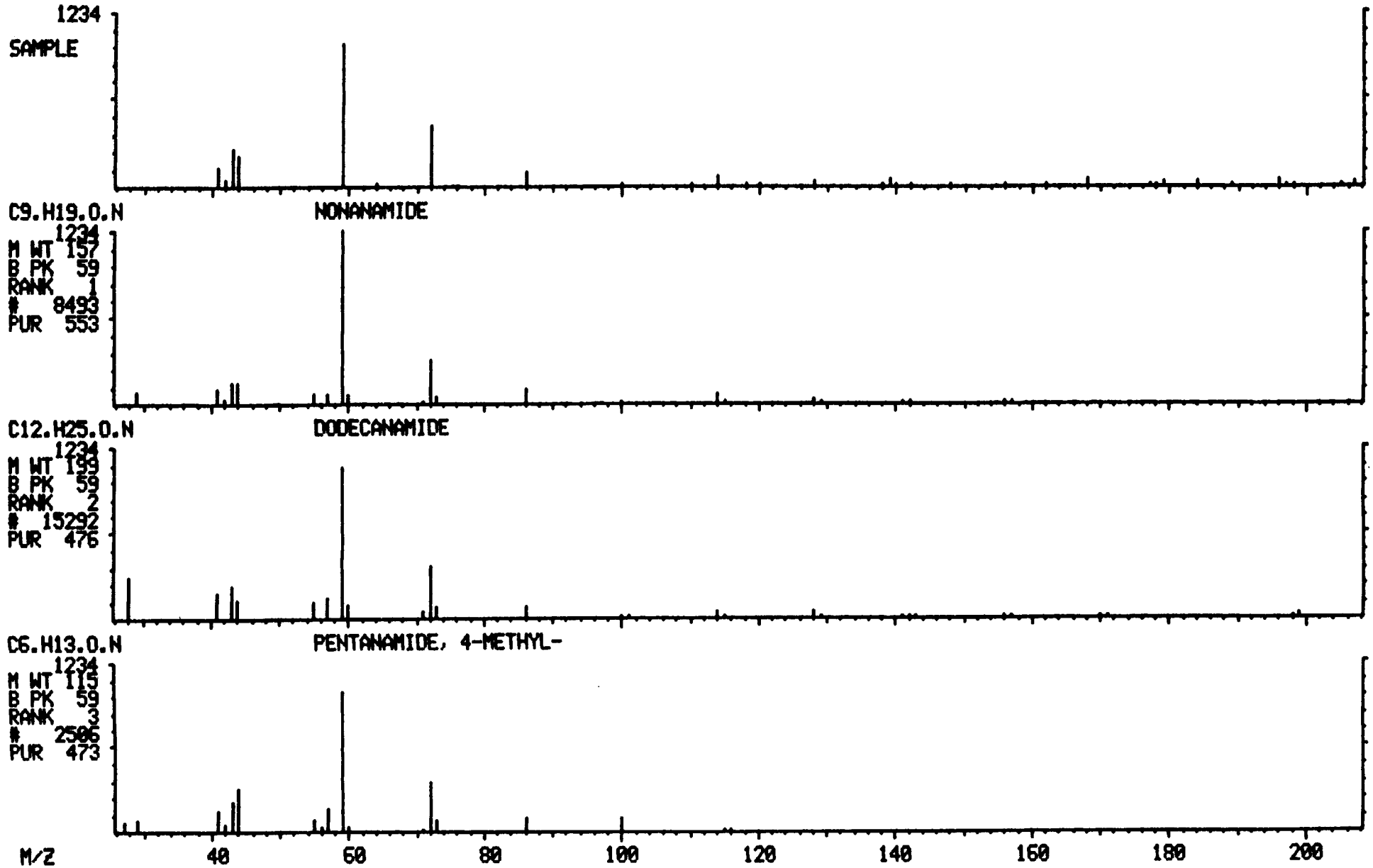
MID LIBRARY SEARCH
08/07/85 19:10:00 + 24:53
DATA: EQ316 #1493
CALI: EQ316 # 2
BASE M/Z: 55
RIC: 17855.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



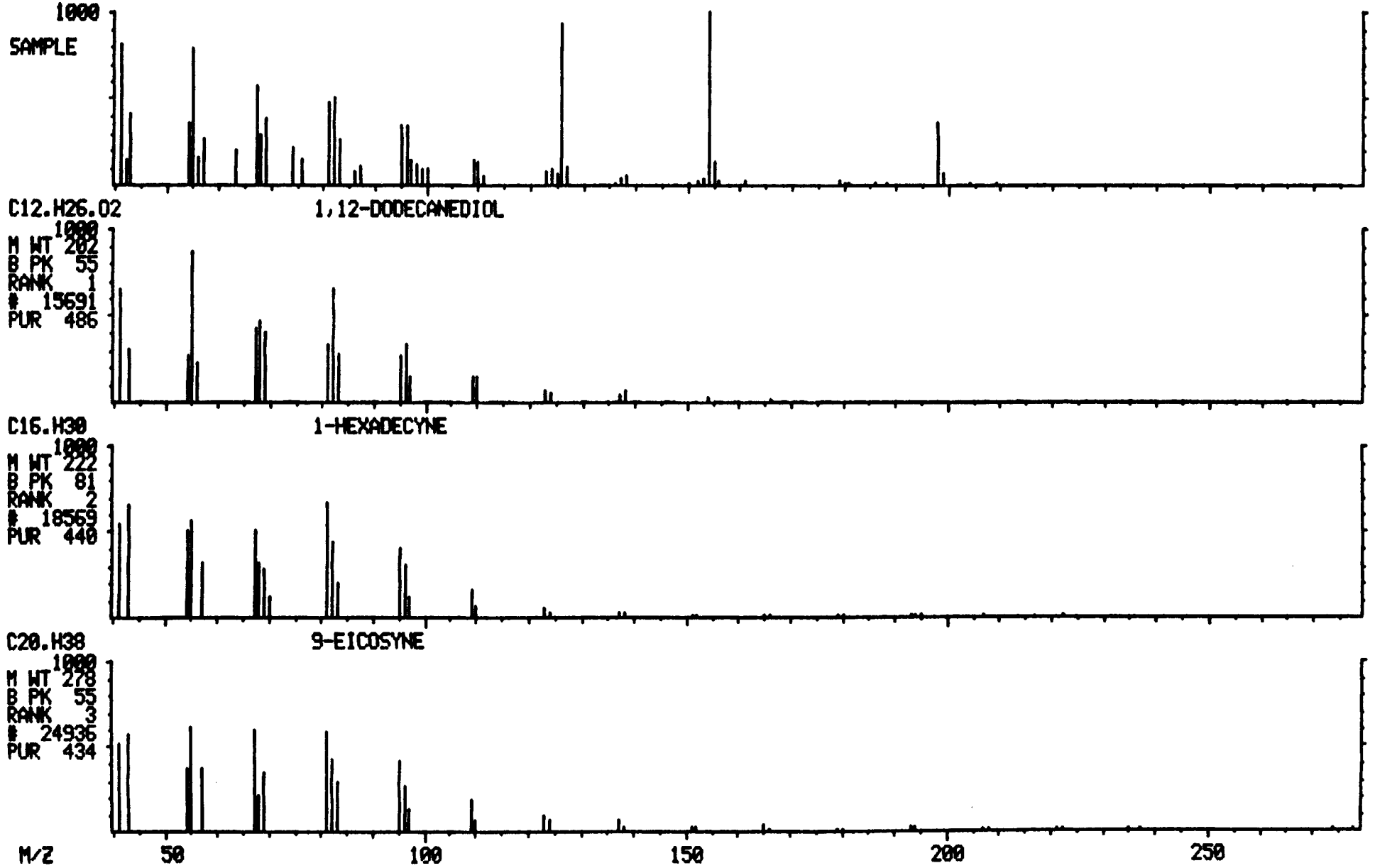
MID LIBRARY SEARCH
08/07/85 19:10:00 + 25:06
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ316 #1506
CALI: EQ316 # 2

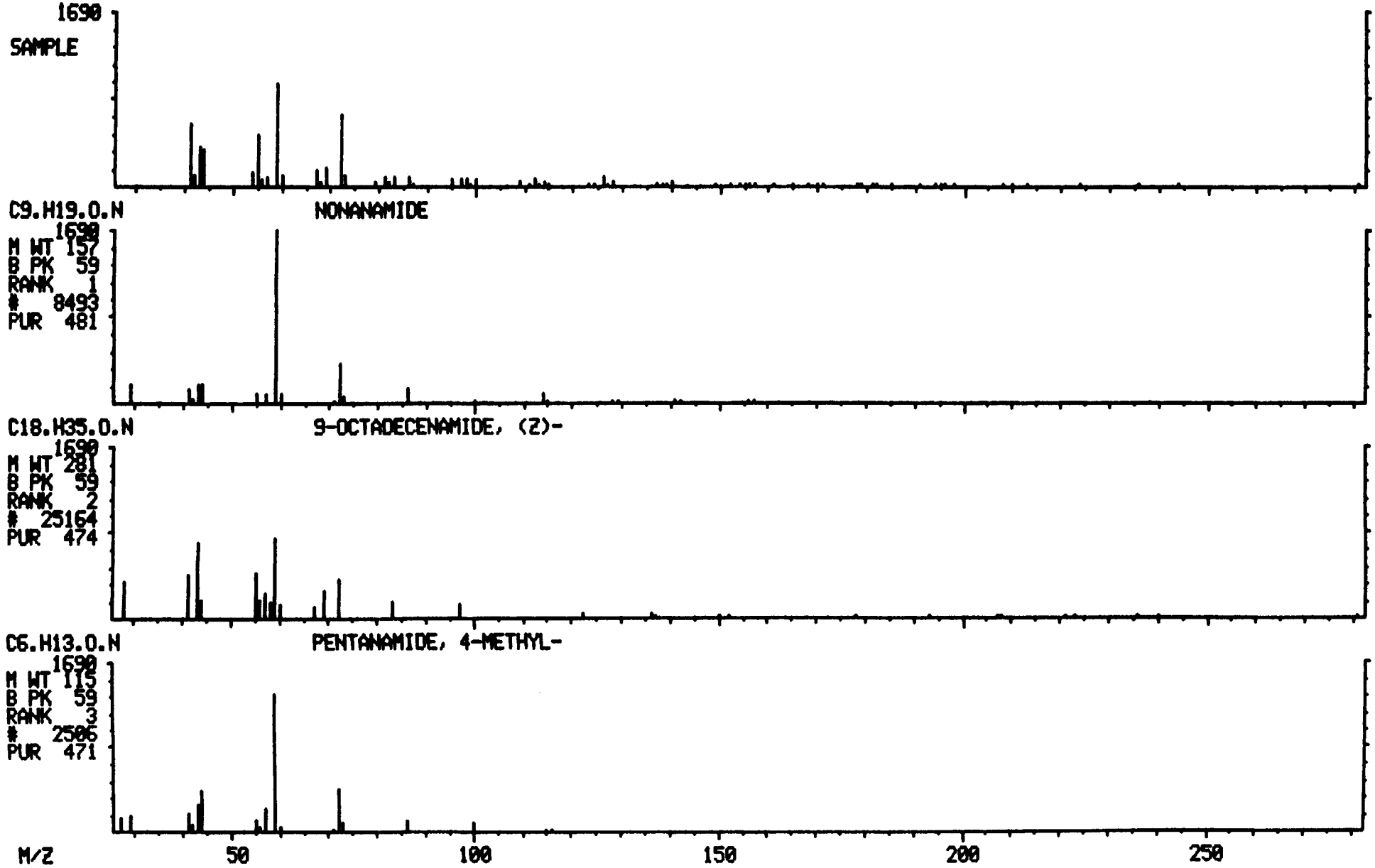
BASE M/Z: 59
RIC: 11183.



MID LIBRARY SEARCH
08/07/85 19:10:00 + 25:41
DATA: EQ316 #1541
CALI: EQ316 # 2
BASE M/Z: 154
RIC: 34751.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



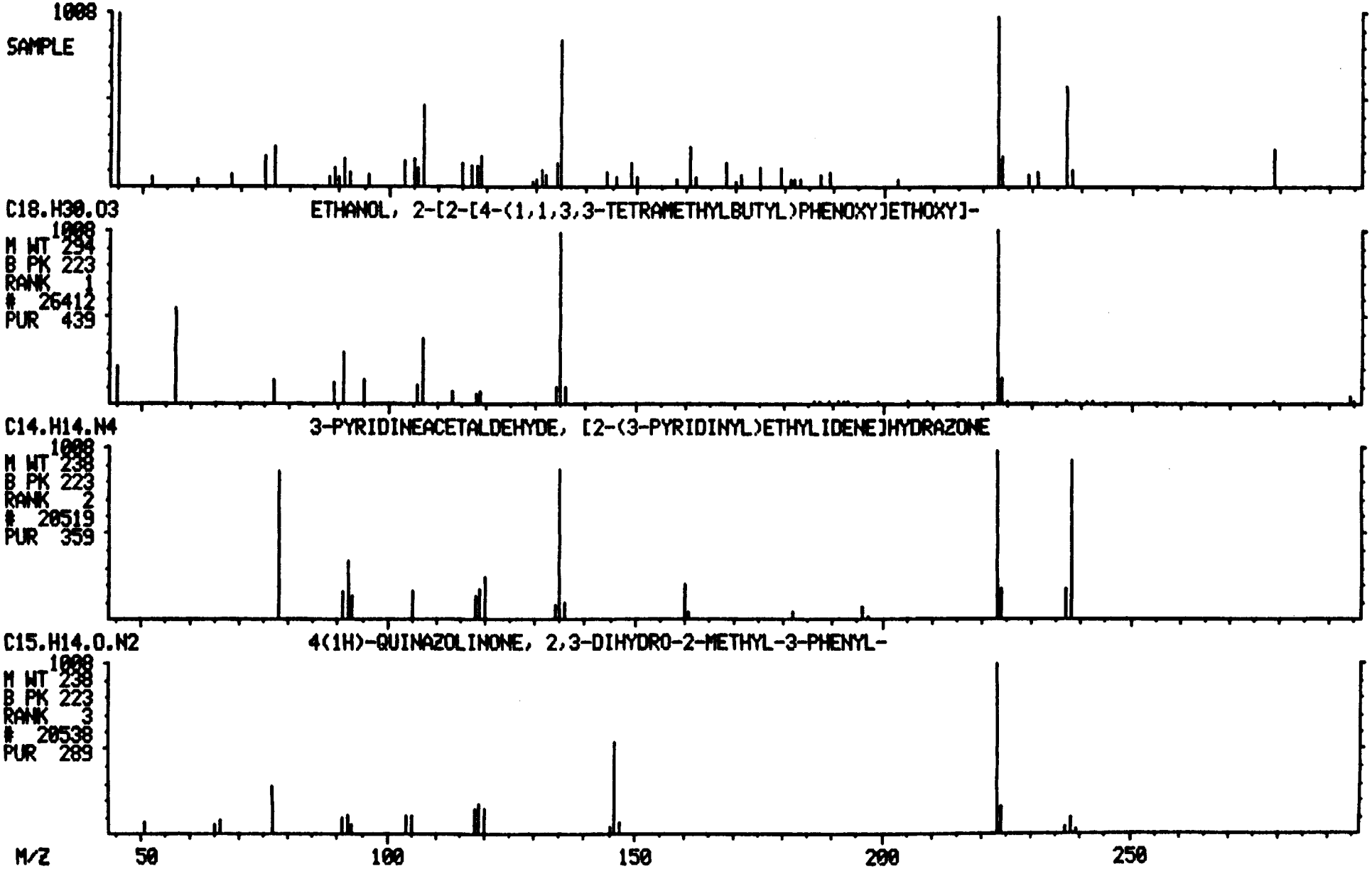
MID LIBRARY SEARCH
08/07/85 19:10:00 + 26:09
DATA: EQ316 #1569
CALI: EQ316 # 2
BASE M/Z: 59
RIC: 46591.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)



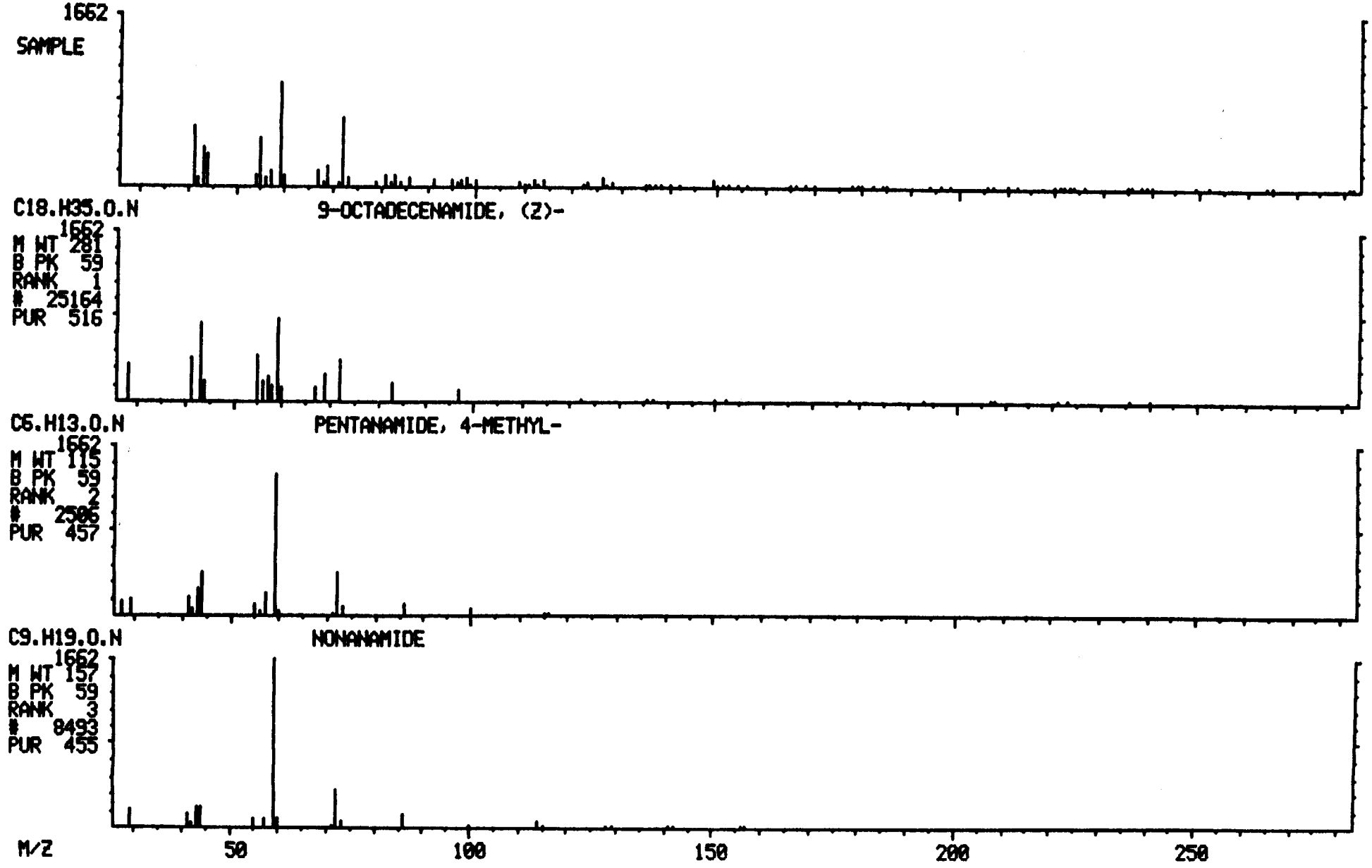
MID LIBRARY SEARCH
08/07/85 19:10:00 + 26:40
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ316 #1600
CALI: EQ316 # 2

BASE M/Z: 45
RIC: 9199.



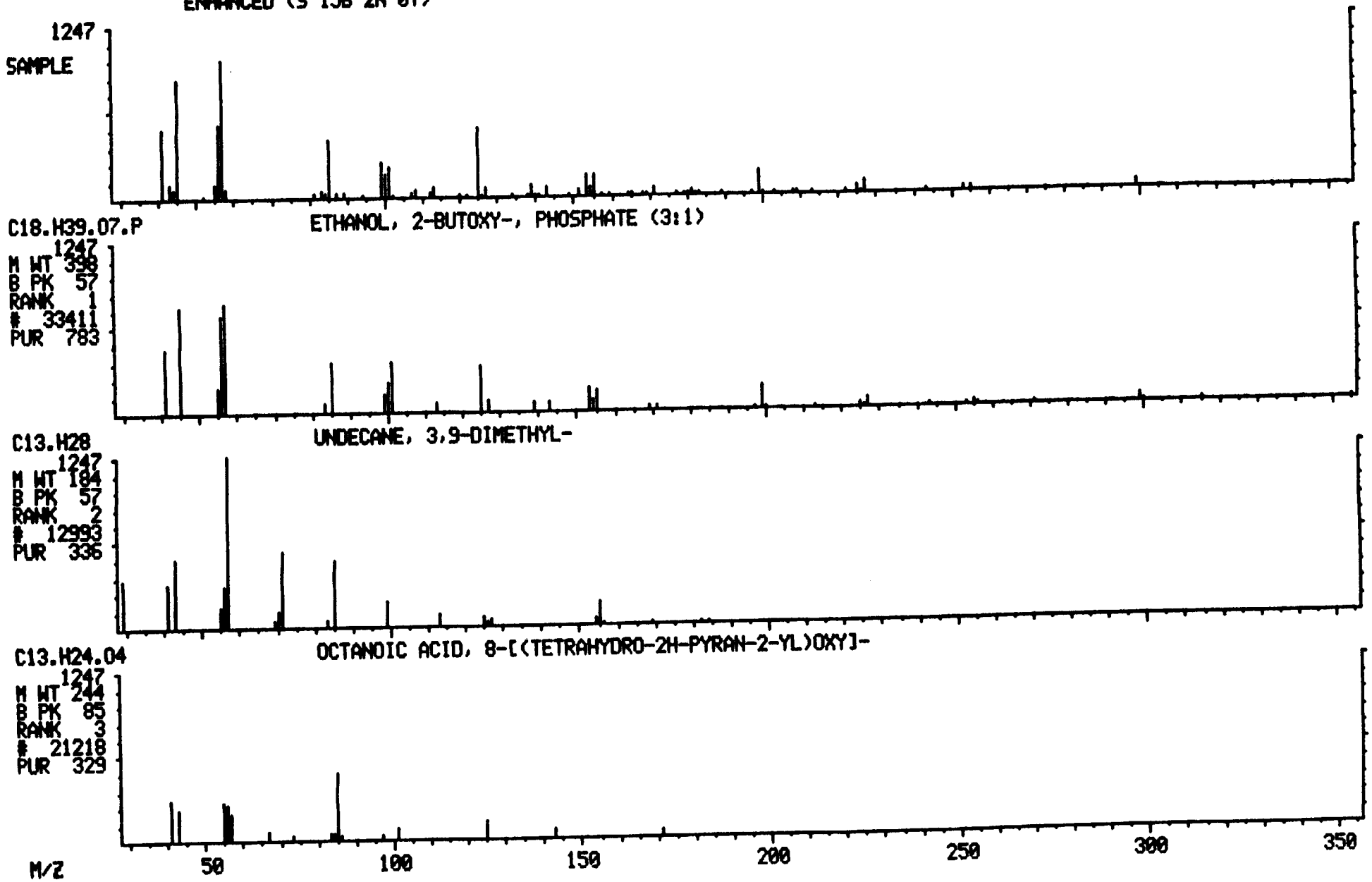
MID LIBRARY SEARCH
08/07/85 19:10:00 + 27:05
DATA: EQ316 #1625
CALI: EQ316 # 2
BASE M/Z: 59
RIC: 260863.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

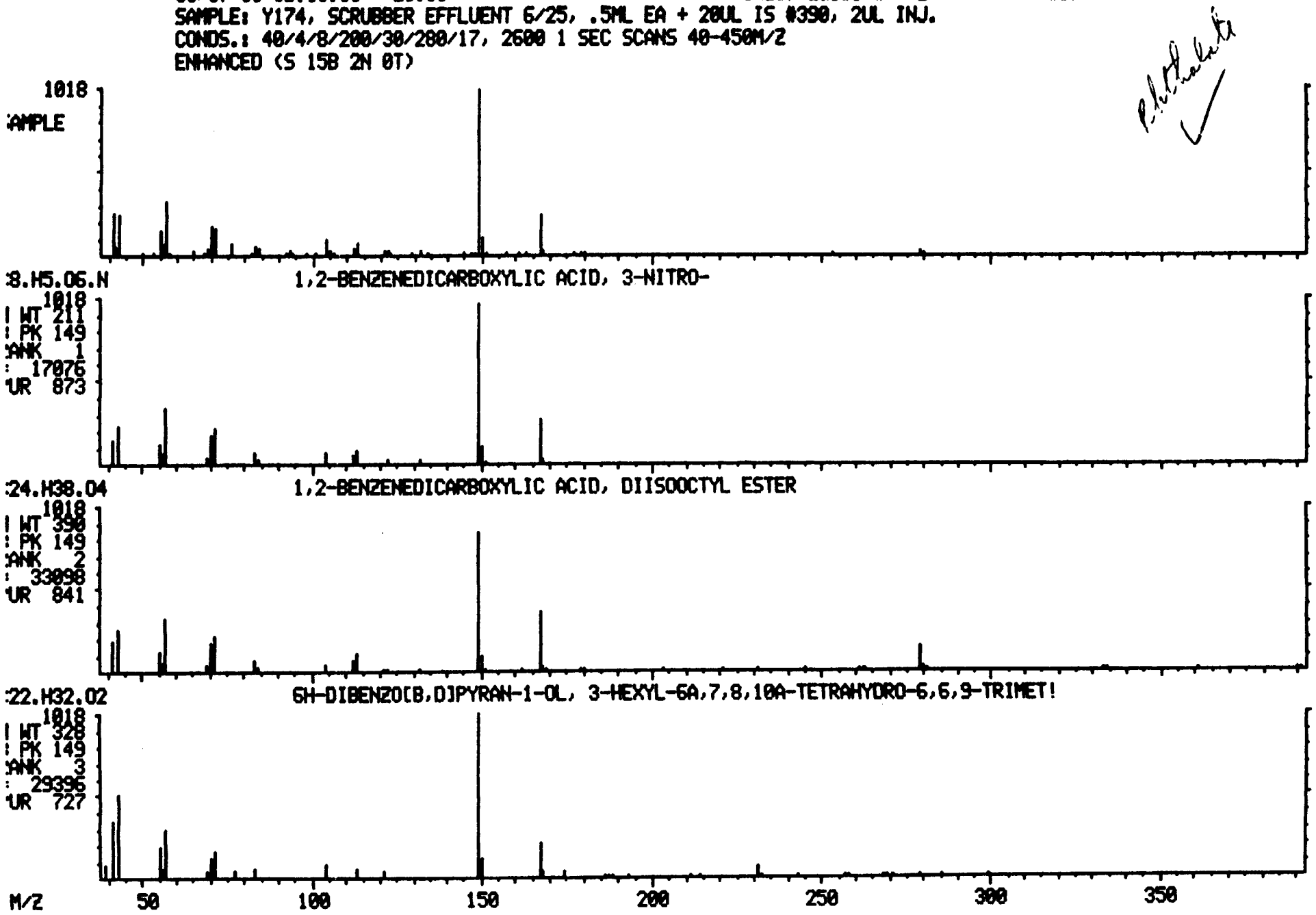


MID LIBRARY SEARCH
08/07/85 19:10:00 + 27:16
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

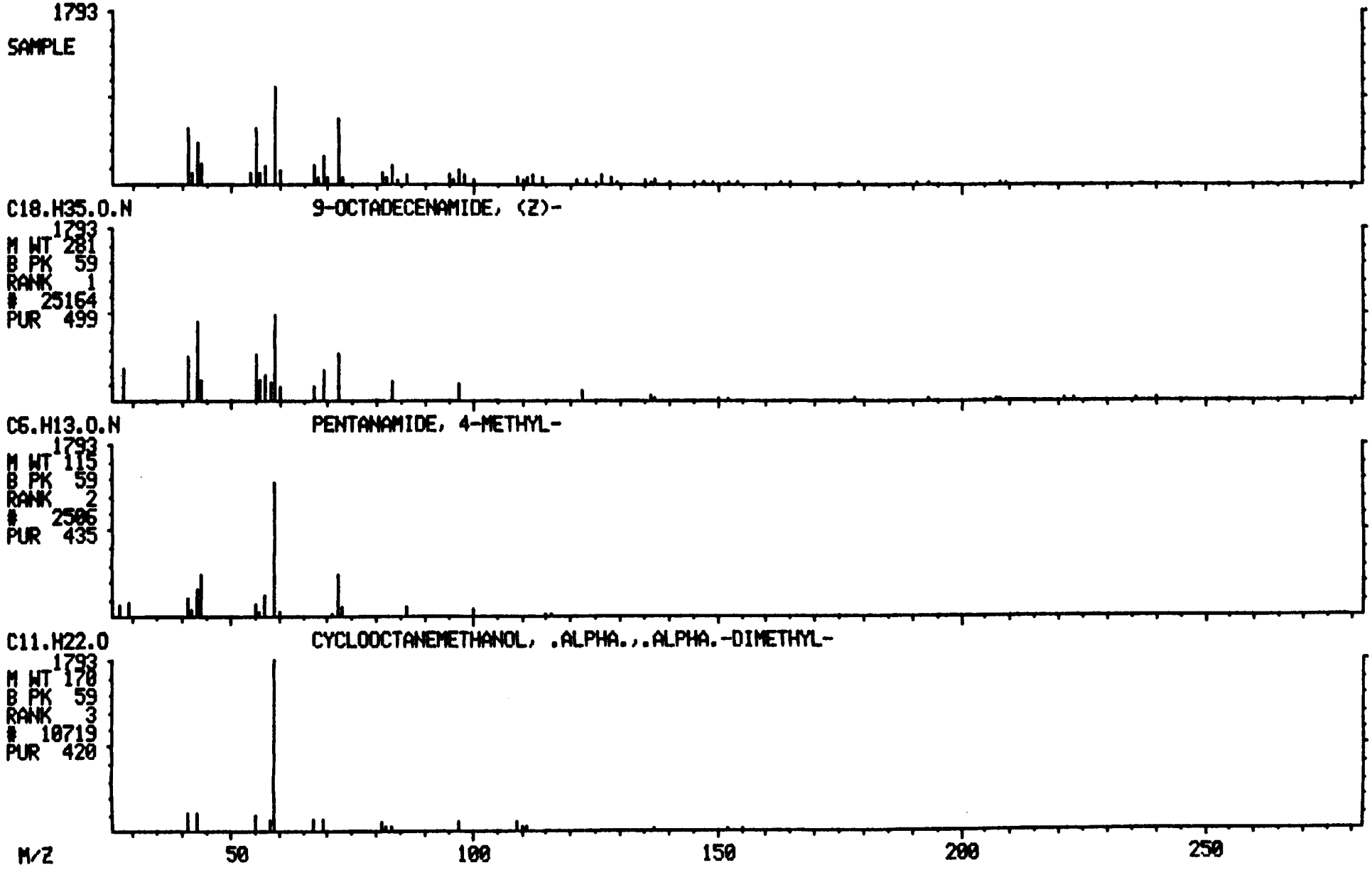
DATA: EQ316 #1636
CALI: EQ316 # 2

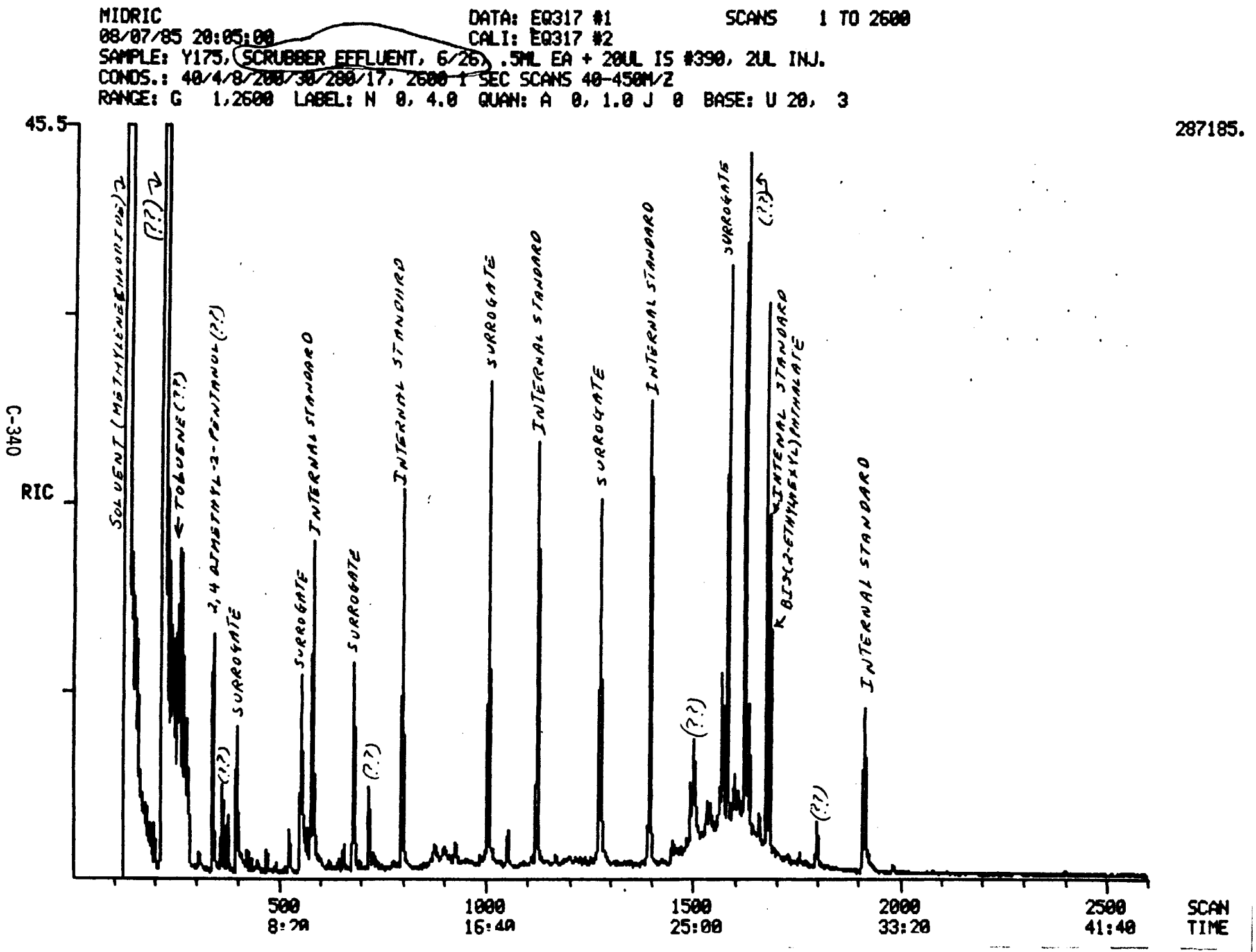
BASE M/Z: 57
RIC: 31519.




MID LIBRARY SEARCH
08/07/85 19:10:00 + 28:06
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/2
ENHANCED (S 15B 2N 0T)
DATA: EQ316 #1686
CALI: EQ316 # 2
BASE M/Z: 149
RIC: 37503.
1018
AMPLE
8.H5.06.N
1,2-BENZENEDICARBOXYLIC ACID, 3-NITRO-
1018
WT 211
PK 149
ANK 1
17076
UR 873
24.H38.04
1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL ESTER
1018
WT 390
PK 149
ANK 2
33098
UR 841
22.H32.02
6H-DIBENZO[B,D]PYRAN-1-OL, 3-HEXYL-6A,7,8,10A-TETRAHYDRO-6,6,9-TRIMET!
1018
WT 328
PK 149
ANK 3
29396
UR 727
M/Z
50
100
150
200
250
300
350

MID LIBRARY SEARCH
08/07/85 19:10:00 + 30:00
DATA: EQ316 #1800
CALI: EQ316 # 2
BASE M/Z: 59
RIC: 23871.
SAMPLE: Y174, SCRUBBER EFFLUENT 6/25, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)




MIDRIC
08/07/85 20:05:00
DATA: EQ317 #1
CALI: EQ317 #2
SCANS 1 TO 2600
SAMPLE: Y175, SCRUBBER EFFLUENT, 6/26, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
45.5
287185.
C-340
RIC
SOLVENT (METHYLENE CHLORIDE)
(?.?)
← TOLUENE (?.?)
2,4 DIMETHYL-3-PENTANOL (?.?)
SURROGATE
(?.?)
SURROGATE
INTERNAL STANDARD
SURROGATE
(?.?)
INTERNAL STANDARD
SURROGATE
INTERNAL STANDARD
SURROGATE
(?.?)
INTERNAL STANDARD
BIS(2-ETHYHEXYL)PHTHALATE
(?.?)
INTERNAL STANDARD
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ317

Data: EQ317.TI
08/07/85 20:05:00
Sample: Y175, SCRUBBER EFFLUENT, 6/26, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

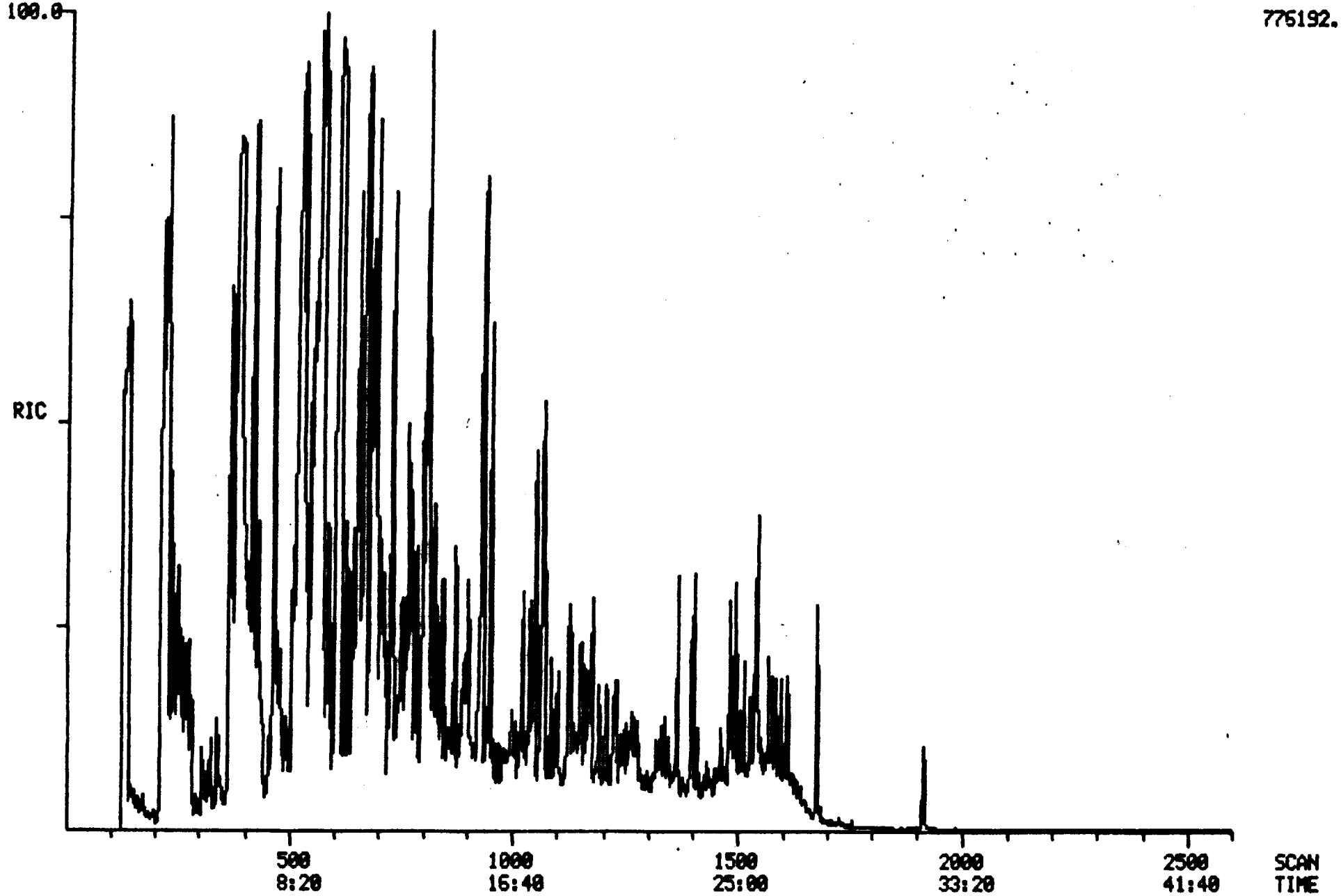
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000 1000/890
Resp. fac. from Library Entry

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #2: D5-PHENOL (99)
3	QC #3: D5-NITROBENZENE (82)
4	IS #2: D8-NAPHTHALENE (136)
5	IS #3: D10-ACENAPTHENE (164)
6	QC #4: 2-FLUOROBIPHENYL (172)
7	2,6-DINITROTOLUENE (165)
8	IS #4: D10-PHENANTHRENE (188)
9	QC #5: 2,4,6-TRIBROMOPHENOL (330)
10	N-NITROSODIPHENYLAMINE (169) *
11	IS #5: D12-CHRYSENE (240)
12	QC #6: D14-TERPHENYL (244)
13	BUTYLBENZYLPHTHALATE (149)
14	BIS(2-ETHYLHEXYL)PHTHALATE (149)
15	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	580	9:40	1	1.000	A BB	67748.	80.000 PPB	5.24
2	99	551	9:11	1	0.950	A BB	127451.	157.112 PPB	10.30
3	82	680	11:20	1	1.172	A BB	103989.	126.099 PPB	8.26
4	136	799	13:19	4	1.000	A BB	228285.	80.000 PPB	5.24
5	164	1123	18:43	5	1.000	A BB	116004.	80.000 PPB	5.24
6	172	1006	16:46	5	0.896	A BB	189049.	130.333 PPB	8.54
7	165	1122	18:42	5	0.999	A BB	14162.	264.962 PPB	17.36 I.S.
8	188	1395	23:15	8	1.000	A BB	217877.	80.000 PPB	5.24
9	330	1273	21:13	8	0.913	A BB	73265.	255.307 PPB	16.73
10	169	1255	20:58	8	0.900	A BB	2774.	2.640 PPB	0.17
11	240	1675	27:55	11	1.000	A BB	164938.	80.000 PPB	5.24
12	244	1582	26:22	11	0.944	A BB	108023.	73.320 PPB	4.80
13	149	1623	27:03	11	0.969	A BB	6637.	3.533 PPB	0.23
14	149	1684	28:04	11	1.005	A BB	79689.	32.724 PPB 37	2.14
15	264	1913	31:53	15	1.000	A BB	141627.	80.000 PPB	5.24

PCIO-1
XA0-2

MIDRIC
08/06/85 16:26:00
DATA: EQ2580 #1
CALI: EQ2580 #2
SCANS 1 TO 2600
SAMPLE: Y157, 1 TO 10 DIL + IS, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: EQ258D

XAD2 PCIO-1

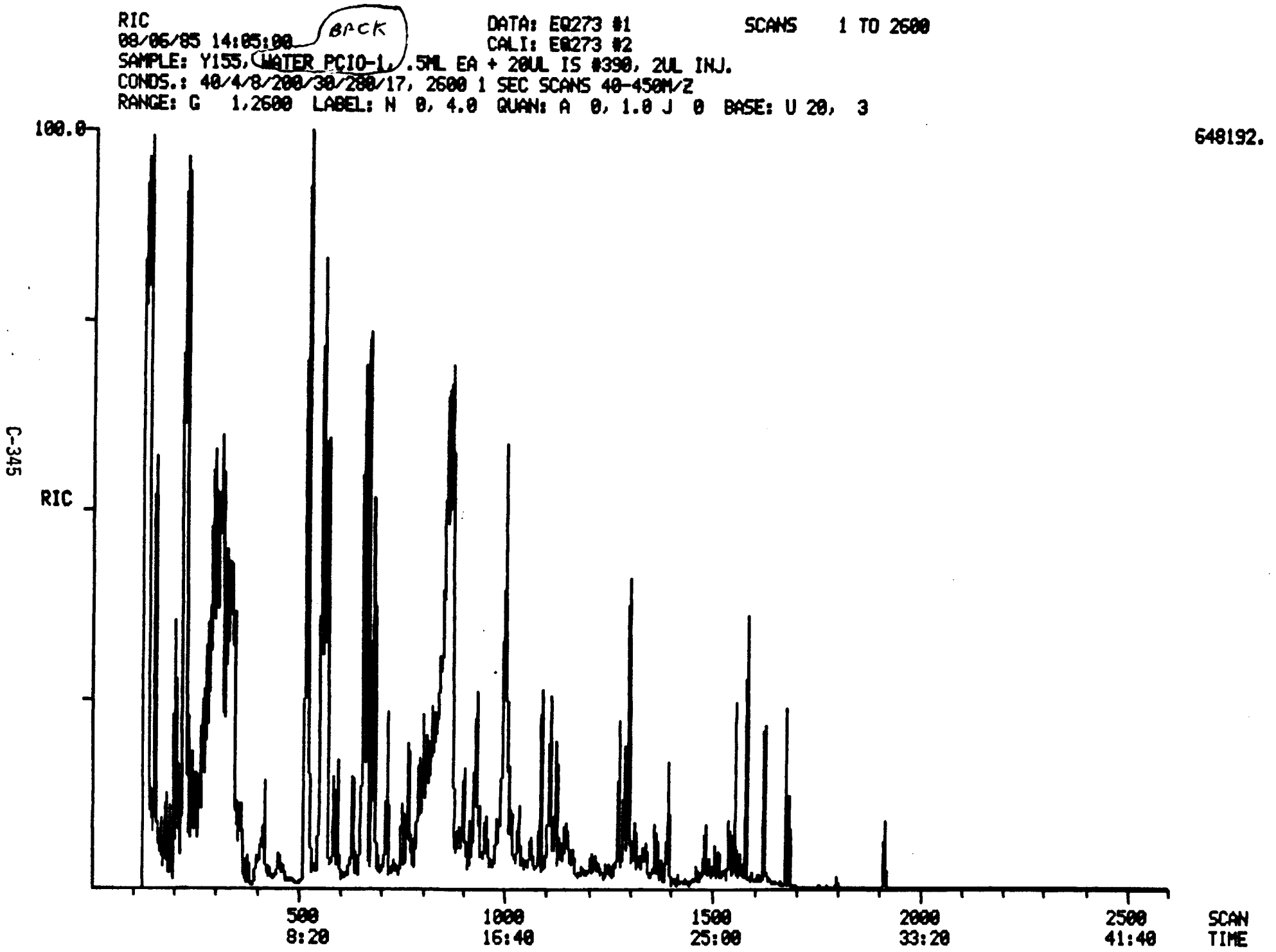
Data: EQ258D.TI
08/06/85 16:26:00
Sample: Y157, 1 TO 10 DIL + IS, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: PEI Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 10.000
Resp. fac. from Library Entry

1.73m^3

NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	QC #1: 2-FLUOROPHENOL (112)
3	QC #2: D5-PHENOL (99)
4	QC #3: D5-NITROBENZENE (82)
5	N-NITROSODIMETHYLAMINE (74)
6	PHENOL (94) * $
7	ANILINE (93)
8	BIS(2-CHLOROETHYL)ETHER (93)
9	1,3-DICHLOROBENZENE (146)
10	BENZYL ALCOHOL (108)
11	1,2-DICHLOROBENZENE (146)
12	2-METHYLPHENOL (108)
13	N-NITROSO-DI-PROPYLAMINE (70) ** $
14	NITROBENZENE (77)
15	IS #2: D8-NAPHTHALENE (136)
16	2-NITROPHENOL (139) *
17	2,4-DIMETHYLPHENOL (122)
18	BENZOIC ACID (105)
19	2,4-DICHLOROPHENOL (162) *
20	NAPHTHALENE (128)
21	4-CHLORO-3-METHYLPHENOL (142) * $
22	2-METHYLNAPHTHALENE (141)
23	IS #3: D10-ACENAPTHENE (164)
24	QC #4: 2-FLUOROBIPHENYL (172)
25	2-CHLORONAPHTHALENE (162)
26	ACENAPHTHYLENE (152)
27	ACENAPHTHENE (154) * $
28	4-NITROPHENOL (65) ** $
29	DIBENZOFURAN (168)
30	2,6-DINITROTOLUENE (165)
31	DIETHYL PHTHALATE (149)
32	FLUORENE (166)
33	IS #4: D10-PHENANTHRENE (188)
34	QC #5: 2,4,6-TRIBROMOPHENOL (330)
35	PHENANTHRENE (178)
36	ANTHRACENE (178)
37	DI-N-BUTYLPHTHALATE (149) $
38	FLUORANTHENE (202) *
39	IS #5: D12-CHRYSENE (240)
40	QC #6: D14-TERPHENYL (244)
41	PYRENE (202) *
42	BENZO(A)ANTHRACENE (228)
43	BIS(2-ETHYLHEXYL)PHTHALATE (149)
44	CHRYSENE (228)
45	IS #6: D12-PERYLENE (264)
46	1,4-DICHLOROBENZENE (146) * $

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	585	9:45	1	1.000	A BB	64743.	400.000 PPB	3.19
2	112	400	6:40	1	0.684	A BB .694	21366.	221.056 PPB	1.77
3	99	557	9:17	1	0.952	A BB .945	64828.	395.022 PPB	3.15
4	82	687 X	11:27	1	1.174	A BB 1.170	23833.	144.805 PPB	1.16
5	74	231	3:51	1	0.395	A BB .405	2485.	16.471 PPB	0.13
6	94	559	9:19	1	0.956	A BB .948	59419.	200.800 PPB	1.60
7	93	543	9:02	1	0.928	A VV .928	4033.	84.939 PPB	0.68
8	93	560	9:20	1	0.957	A BB .954	12922.	46.761 PPB	0.37
9	146	579	9:39	1	0.990	A BV .988	5303.	17.922 PPB	0.14
10	[illegible]	686	10:56	1	1.121	A VB 1.117	89787.	441.984 PPB	3.53
11	146	619	10:19	1	1.058	A BB 1.055	8924.	31.095 PPB	0.25
12	108	656	10:56	1	1.121	A VB 1.112	89737.	441.924 PPB	3.53
13	70	691	11:31	1	1.181	A BV 1.149	20910.	124.782 PPB	1.00
14	77	702 X	11:42	1	1.200	A BV 1.177	27824.	98.921 PPB	0.79
15	136	802	13:22	15	1.000	A BB	198839.	400.000 PPB	3.19
16	139	768	12:48	15	0.958	A VB 0.925	1022.	10.487 PPB	0.08
17	122	788	13:08	15	0.983	A BB 0.951	6136.	51.610 PPB	0.41
18	85	808	13:28	15	1.007	A VV 0.995	44196.	2850.070 PPB	18.77
19	52	797	13:17	15	0.994	A BB 0.981	6503.	42.858 PPB	0.34
20	28	807	13:27	15	1.006	A BV 1.005	1163520.	2204.720 PPB	17.61
21	42	914	15:14	15	1.140	A VB 1.155	5305.	39.383 PPB	0.31
30	41	914	15:14	15	1.140	A VB 1.162	7853.	24.840 PPB	0.20
22	54	1124	18:44	23	1.000	A BV	109624.	400.000 PPB	3.19
23	72	1007	16:47	23	0.896	A BB 0.896	46299.	176.757 PPB	1.41
35	52	1018	16:58	23	0.906	A BV 0.907	11280.	28.724 PPB	0.23
38	52	1094	18:14	23	0.973	A VB 0.974	56298.	102.465 PPB	0.82
40	54	1129	18:49	23	1.004	A BB 1.005	19593.	63.033 PPB	0.50
42	65	1174	19:34	23	1.044	A VB 1.046	3385.	49.649 PPB	0.40
43	68	1160	19:20	23	1.032	A BB 1.032	127908.	232.160 PPB	1.85
45	165	1124	18:44	23	1.000	A BV 0.985	17754.	185.612 PPB	1.48
46	149	1229	20:29	23	1.093	A BB 1.095	33638.	76.033 PPB	0.61
48	166	1224	20:24	23	1.089	A BB 1.089	93942.	230.491 PPB	1.84
33	188	1396	23:16	33	1.000	A BV	197434.	400.000 PPB	3.19
34	330	1274	21:14	33	0.913	A BB 0.913	20050.	430.479 PPB	3.44
57	178	1400	23:20	33	1.003	A BV 1.004	228256.	376.176 PPB	3.00
75	178	1400	23:20	33	1.003	A BV 1.009	228256. 65,259	685.957 PPB (196)	5.48
58	49	1502	25:02	33	1.076	A VV 1.077	9941.	15.999 PPB	0.13
59	102	1547	25:47	33	1.108	A VV 1.110	32951.	65.612 PPB	0.52
3	240	1676	27:56	39	1.000	A BB	145215.	400.000 PPB	3.19
4	244	1582	26:22	39	0.944	A BB 0.943	47013.	184.351 PPB	1.47
63	202	1566	26:06	39	0.934	A VV 0.933	67821.	116.111 PPB	0.93
66	228	1674	27:54	39	0.999	A BV 0.999	12262.	23.900 PPB	0.19
67	149	1684	28:04	39	1.005	A VB 1.005	7205.	14.858 PPB	0.12
68	228	1678	27:58	39	1.001	A VB 1.002	13925.	35.666 PPB	0.28
45	264	1914	31:54	45	1.000	A BB	139895.	400.000 PPB	3.19
46	146	587	9:47	1	1.003	M ZZ 1.003	12274.	37.181 PPB	0.30


RIC
08/06/85 14:05:00 BACK
DATA: EQ273 #1
CALI: EQ273 #2
SCANS 1 TO 2600
SAMPLE: Y155, WATER PCIO-1, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
648192.
C-345
RIC
500
8:20
1000
16:40
1500
25:00
2000
33:20
2500
41:40
SCAN
TIME

Quantitation Report File: EQ273

Data: EQ273.TI
08/06/85 14:05:00
Sample: Y155, WATER PCIO-1, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: PEI Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) X2
Resp. fac. from Library Entry

	NO	NAME
1	1	IS #1: D4-1,4-DICHLORDBENZENE (152)
2	2	QC #1: 2-FLUOROPHENOL (112)
3	3	QC #2: D5-PHENOL (99)
4	4	QC #3: D5-NITROBENZENE (82)
5	5	~~N-NITROSODIMETHYLAMINE (74)~~
8	6	~~BIS(2-CHLOROETHYL)ETHER (93)~~
9	7	~~2-CHLOROPHENOL (128) *~~
13	8	2-METHYLPHENOL (108)
15	9	4-METHYLPHENOL (108)
16	10	~~N-NITROSO-DI-PROPYLAMINE (70) ** *~~
19	11	IS #2: D8-NAPHTHALENE (136)
21	12	~~2-NITROPHENOL (139) *~~
22	13	2,4-DIMETHYLPHENOL (122)
23	14	~~BENZOIC ACID (105)~~
31	15	IS #3: D10-ACENAPTHENE (164)
32	16	QC #4: 2-FLUOROBIPHENYL (172)
42	17	~~4-NITROPHENOL (65) ** *~~
44	18	~~2,4-DINITROTOLUENE (165) *~~
45	19	~~2,6-DINITROTOLUENE (165)~~
51	20	IS #4: D10-PHENANTHRENE (188)
52	21	QC #5: 2,4,6-TRIBROMOPHENOL (330)
53	22	~~N-NITROSODIPHENYLAMINE (169) *~~
57	23	PHENANTHRENE (178)
61	24	IS #5: D12-CHRYSENE (240)
62	25	QC #6: D14-TERPHENYL (244)
64	26	~~BUTYLBENZYLPHTHALATE (149)~~
67	27	BIS(2-ETHYLHEXYL)PHTHALATE (149)
69	28	IS #6: D12-PERYLENE (264)

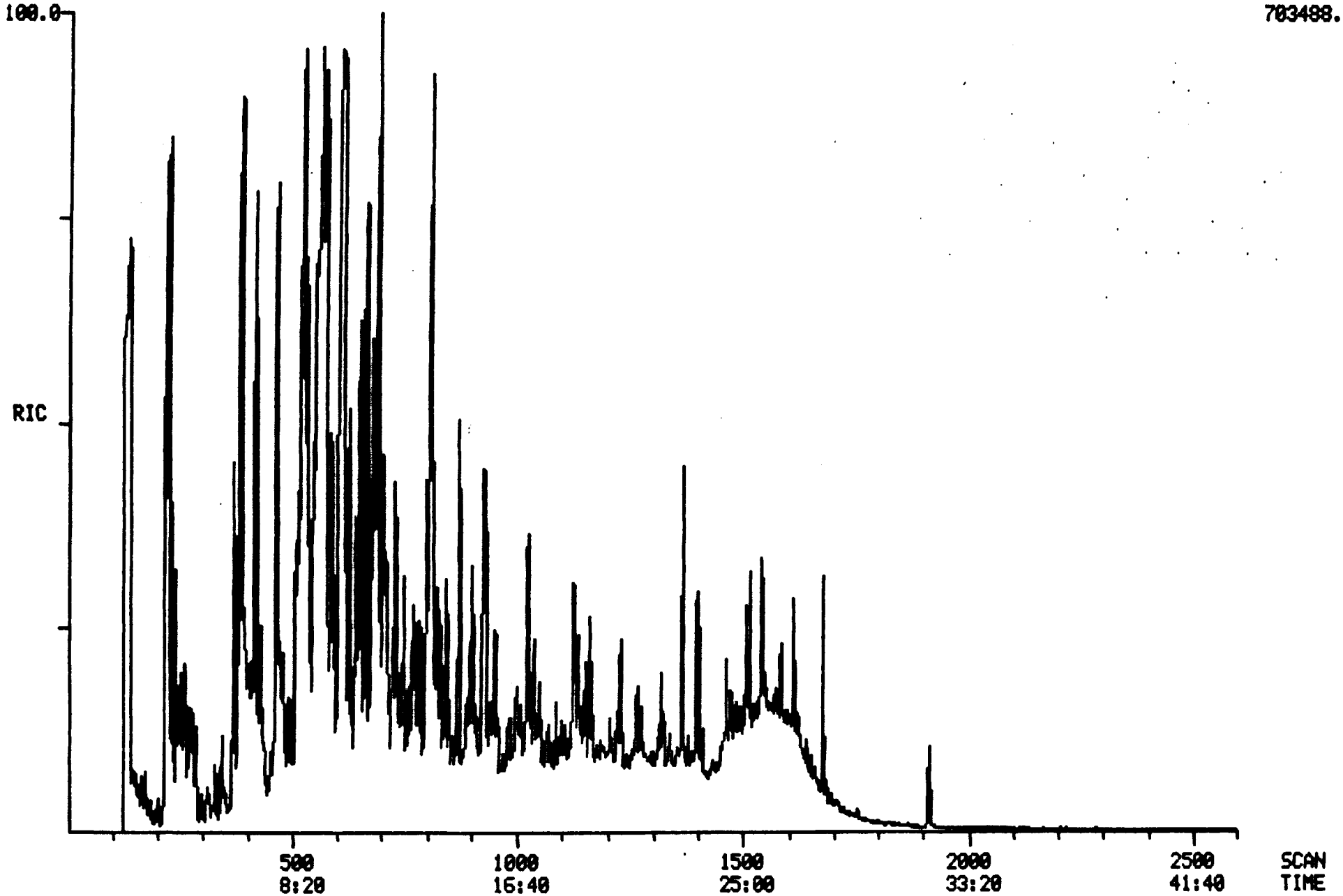
1,73 m^3

567 phenol

	No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	1	152	582 582	9:42	1	1.000	A BB	41540.	~~40.000 PPB~~		2.47
2	2	112	404 410	6:50	1	0.704	A BV	0.694 11407.	~~18.394 PPB~~		1.14
3	3	99	550 563	9:23	1	0.967	A BB	0.945 139914.	~~132.876 PPB~~		8.20
4	4	82	681 684	11:24	1	1.175	A BB	1.170 66837.	~~63.290 PPB~~		3.91
5	~~5~~	~~74~~	~~247 236~~	~~4:07~~	~~1~~	~~0.424~~	~~A VV~~	~~0.405 8443.~~	~~8.720 PPB~~		~~0.54~~
8	~~6~~	~~93~~	~~563 555~~	~~9:23~~	~~1~~	~~0.967~~	~~A BB~~	~~0.954 9168.~~	~~5.171 PPB~~		~~0.32~~
9	~~7~~	~~128~~	~~562 556~~	~~9:22~~	~~1~~	~~0.966~~	~~A BB~~	~~0.955 7487.~~	9	4.660 PPB	0.29
13	8	108	654 697	10:54	1	1.124	A BB	1.112 505743.	78	388.177 PPB	23.96
15	9	108	680 672	11:20	1	1.168	A BB	1.155 271350.	39	199.422 PPB	12.31
16	~~10~~	~~70~~	~~684 666~~	~~11:24~~	~~1~~	~~1.175~~	~~A VB~~	~~1.147 12515.~~	~~11.640 PPB~~		~~0.72~~
19	11	136	800 800	13:20	11	1.000	A BV	152682.	~~40.000 PPB~~		2.47
21	~~12~~	~~139~~	~~740 738~~	~~12:38~~	~~11~~	~~0.947~~	~~A BB~~	~~0.925 2154.~~	~~2.878 PPB~~		~~0.18~~
22	13	122	761 764	12:44	11	0.955	A BB	0.951 85005.	186	93.116 PPB	5.75
23	14	105	796 795	13:15	11	0.994	A BB	0.995 8484.	119	58.751 PPB	3.63
31	15	164	1123 1123	18:43	15	1.000	A BB	73262.	~~40.000 PPB~~		2.47
32	16	172	1006 1006	16:46	15	0.896	A BB	0.896 126272.	~~72.134 PPB~~		4.45
42	~~17~~	~~65~~	~~1175 1186~~	~~19:46~~	~~15~~	~~1.056~~	~~A BB~~	~~1.046 7540.~~	33	16.545 PPB	1.02
44	~~18~~	~~165~~	~~1177 1188~~	~~19:48~~	~~15~~	~~1.058~~	~~A BB~~	~~1.048 960.~~	2	1.063 PPB	0.07
45	~~19~~	~~168~~	~~1061 1122~~	~~18:42~~	~~15~~	~~0.999~~	~~A BB~~	~~0.985 4303.~~		6.732 PPB	0.42
51	20	188	1345 1394	23:14	20	1.000	A VB	146407.	~~40.000 PPB~~		2.47
52	21	330	1273 1273	21:13	20	0.913	A BB	0.913 71036.	~~205.678 PPB~~		12.69
53	~~22~~	~~169~~	~~1261 1254~~	~~20:54~~	~~20~~	~~0.900~~	~~A BB~~	~~0.96 5663.~~	8	3.890 PPB	0.24
57	23	178	1400 1398	23:18	20	1.003	A BB	1.004 22727.	10	5.051 PPB	0.31
61	24	240	1674 1675	27:55	24	1.000	A BB	115578.	~~40.000 PPB~~		2.47
62	25	244	1544 1582	26:22	24	0.944	A BB	0.943 134139.	~~66.087 PPB~~		4.08
64	~~26~~	~~149~~	~~1627 1623~~	~~27:03~~	~~24~~	~~0.969~~	~~A BB~~	~~0.969 4432.~~	3	1.557 PPB	~~0.10~~
67	27	149	1684 1684	28:04	24	1.005	A BB	1.005 56081.	24	14.530 PPB	0.90
69	28	264	1918 1913	31:53	28	1.000	A BB	114395.	~~40.000 PPB~~		2.47

PC IO-2
XAD-2

MIDRIC
08/06/85 17:20:00
DATA: EQ259D #1
CALI: EQ259D #2
SCANS 1 TO 2600
SAMPLE: Y158, 1 TO 10 DIL, 2UL INJ. IO-2
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: EQ259D XAD-2 PCIO-2

Data: EQ259D.TI
08/06/85 17:20:00
Sample: Y158, 1 TO 10 DIL, 2UL INJ. ID-2
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: PEI Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 10.000
Resp. fac. from Library Entry

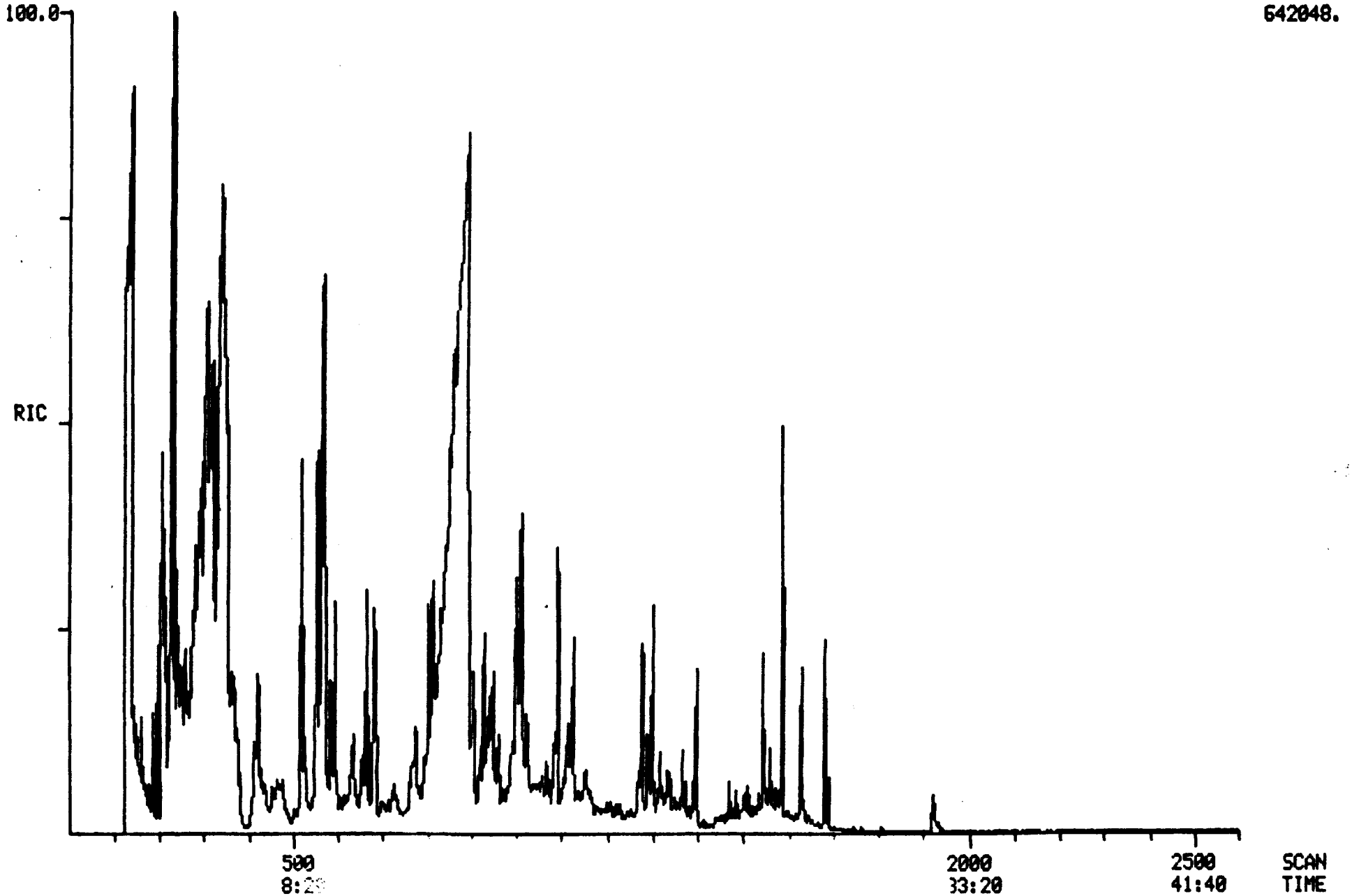
1.82 m³

	NO	NAME
1	1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	2	QC #1: 2-FLUOROPHENOL (112)
3	3	QC #2: D5-PHENOL (99)
4	4	QC #3: D5-NITROBENZENE (82)
5	5	PHENOL (94) * $
~~6~~	~~6~~	~~ANILINE (93)~~
8	7	BIS(2-CHLOROETHYL)ETHER (93)
13	8	1,3-DICHLOROBENZENE (146)
12	9	1,2-DICHLOROBENZENE (146)
~~10~~	~~10~~	~~N-NITROSO-DI-PROPYLAMINE (70) ** $~~
~~8~~	~~11~~	~~NITROBENZENE (77)~~
9	12	IS #2: D8-NAPHTHALENE (136)
20	13	ISOPHORONE (82)
21	14	2-NITROPHENOL (139) *
~~3~~	~~15~~	~~BENZOIC ACID (105)~~
27	16	NAPHTHALENE (128)
~~2~~	~~17~~	~~4-CHLORO-3-METHYLPHENOL (142) * $~~
31	18	IS #3: D10-ACENAPTHENE (164)
32	19	QC #4: 2-FLUOROBIPHENYL (172)
35	20	2-CHLORONAPHTHALENE (162)
38	21	ACENAPHTHYLENE (152)
9	22	3-NITROANILINE (138)
43	23	DIBENZOFURAN (168)
14	24	2,4-DINITROTOLUENE (165) $
~~5~~	~~25~~	~~2,6-DINITROTOLUENE (168)~~
46	26	DIETHYL PHTHALATE (149)
48	27	FLUORENE (166)
51	28	IS #4: D10-PHENANTHRENE (188)
52	29	QC #5: 2,4,6-TRIBROMOPHENOL (330)
53	30	N-NITROSODIPHENYLAMINE (169) *
57	31	PHENANTHRENE (178)
58	32	DI-N-BUTYLPHTHALATE (149) $
59	33	FLUORANTHENE (202) *
61	34	IS #5: D12-CHRYSENE (240)
62	35	QC #6: D14-TERPHENYL (244)
63	36	PYRENE (202) $
~~66~~	~~37~~	~~BENZO(A)ANTHRACENE (228)~~
67	38	BIS(2-ETHYLHEXYL)PHTHALATE (149)
68	39	CHRYSENE (228)
69	40	IS #6: D12-PERYLENE (264)
0	41	1,4-DICHLOROBENZENE (146) * $

	No	m/z	Scan		Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	1	152	582	585	9:45	1	1.000	A BB	56644.	400.000 PPB	3.02
2	2	112	404	401	6:41	1	0.685	A VB 0.694	20248.	239.442 PPB	1.81
3	3	99	550	557	9:17	1	0.952	A BB 0.945	64016.	445.851 PPB	3.37
4	4	82	681	685	11:25	1	1.171	A BV 1.170	23037.	159.980 PPB	1.21
6	5	94	552	559	9:19	1	0.956	A BB 0.948	34981.	135.117 PPB	1.02
7	6	93	540	560	9:20	1	0.957	A BB 0.928	8846.	212.711 PPB	1.61
8	7	93	555	560	9:20	1	0.957	A BB 0.954	8846.	36.588 PPB	0.28
73	8	146	575	578	9:38	1	0.988	A BV 0.988	4850.	18.735 PPB	0.14
12	9	146	614	619	10:19	1	1.058	A BB 1.055	10265.	40.882 PPB	0.31
14	10	70	669	691	11:31	1	1.181	A VV 1.149	22443.	153.076 PPB	1.16
16	11	77	685	704	11:44	1	1.203	A VV 1.177	27801.	112.973 PPB	0.85
19	12	136	800	802	13:22	12	1.000	A BV	188355.	400.000 PPB	3.02
20	13	82	729	734	12:14	12	0.915	A BB 0.911	3872.	14.470 PPB	0.11
21	14	139	740	758	12:38	12	0.945	A BB 0.925	9008.	97.579 PPB	0.74
25	15	108	796	807	13:27	12	1.006	A VB 0.895	96744.	5430.580 PPB	41.07
27	16	128	804	806	13:26	12	1.005	A BB 1.005	839341.	1678.950 PPB	12.70
29	17	148	924	942	15:42	12	1.175	A BV 1.155	5827.	45.666 PPB	0.35
31	18	164	1031	1123	18:43	18	1.000	A BB	96479.	400.000 PPB	3.02
32	19	172	996	1006	16:46	18	0.896	A BB 0.896	42557.	184.607 PPB	1.40
35	20	162	1013	1017	16:57	18	0.906	A BV 0.907	13630.	39.437 PPB	0.30
38	21	152	1091	1094	18:14	18	0.974	A VB 0.974	20175.	41.722 PPB	0.32
39	22	138	1091	1128	18:48	18	1.004	A VB 1.005	2689.	37.023 PPB	0.28
13	23	168	1151	1159	19:19	18	1.032	A BB 1.032	161631.	333.339 PPB	2.52
4	24	165	1170	1175	19:35	18	1.046	A BB 1.048	1231.	10.351 PPB	0.08
15	25	165	1081	1123	18:43	18	1.000	A BB 0.985	14717.	174.826 PPB	1.32
16	26	149	1230	1229	20:29	18	1.094	A BB 1.095	43041.	110.542 PPB	0.84
18	27	166	1223	1223	20:23	18	1.089	A BB 1.089	8874.	24.739 PPB	0.19
51	28	188	1395	1396	23:16	28	1.000	A VB	172473.	400.000 PPB	3.02
52	29	330	1270	1273	21:13	28	0.912	A BB 0.913	17801.	437.805 PPB	3.31
53	30	169	1256	1254	20:54	28	0.898	A BV 0.900	10838.	63.199 PPB	0.48
7	31	178	1400	1399	23:19	28	1.002	A VV 1.004	89193.	168.268 PPB	1.27
58	32	149	1501	1502	25:02	28	1.076	A BB 1.077	17943.	33.057 PPB	0.25
59	33	202	1544	1547	25:47	28	1.108	A BV 1.110	18562.	42.311 PPB	0.32
61	34	240	1671	1675	27:55	34	1.000	A BV	128233.	400.000 PPB	3.02
62	35	244	1581	1581	26:21	34	0.944	A BV 0.943	42516.	188.793 PPB	1.43
63	36	202	1567	1565	26:05	34	0.934	A BV 0.933	6545.	12.690 PPB	0.10
66	37	228	1671	1677	27:57	34	1.001	A BB 0.999	6402.	14.131 PPB	0.11
67	38	149	1681	1683	28:03	34	1.005	A BB 1.005	7088.	16.553 PPB	0.13
68	39	228	1671	1677	27:57	34	1.001	A BB 1.002	6402.	18.570 PPB	0.14
69	40	264	1911	1913	31:53	40	1.000	A BB	132708.	400.000 PPB	3.02
10	41	146	584	587	9:47	1	1.003	M ZZ 1.003	14264.	49.387 PPB	0.37

BACK WATER

RIC
08/07/85 12:03:00
DATA: EQ274 #1
CALI: EQ274 #2
SCANS 1 TO 2600
SAMPLE: Y166, PCIO-2, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: EQ274

Data: EQ274.TI
08/07/85 12:03:00
Sample: Y166, PCIO-2, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

NO	NAME
1	#1: D4-1,4-DICHLOROBENZENE (152)
2	#1: 2-FLUOROPHENOL (112)
3	#2: D5-PHENOL (99)
4	#3: D5-NITROBENZENE (82)
5	~~ITROSODIMETHYLAMINE (74)~~
6	NOL (94) * $
7	(2-CHLOROETHYL)ETHER (93)
8	ZYL ALCOHOL (108)
9	ETHYLPHENOL (108)
10	ETHYLPHENOL (108)
11	~~ITROSO-DI-PROPYLAMINE (70) ** $~~
12	~~ROBENZENE (77)~~
13	#2: D8-NAPHTHALENE (136)
14	ITROPHENOL (139) *
15	-DIMETHYLPHENOL (122)
16	~~(2-CHLOROETHOXY)METHANE (93)~~
17	#3: D10-ACENAPTHENE (164)
18	#4: 2-FLUOROBIPHENYL (172)
19	~~-DINITROTOLUENE (165)~~
20	#4: D10-PHENANTHRENE (188)
21	#5: 2,4,6-TRIBROMOPHENOL (330)
22	ITROSODIPHENYLAMINE (169) *
23	N-BUTYLPHTHALATE (149) $
24	#5: D12-CHRYSENE (240)
25	(2-ETHYLHEXYL)PHTHALATE (149)
26	#6: D12-PERYLENE (264)

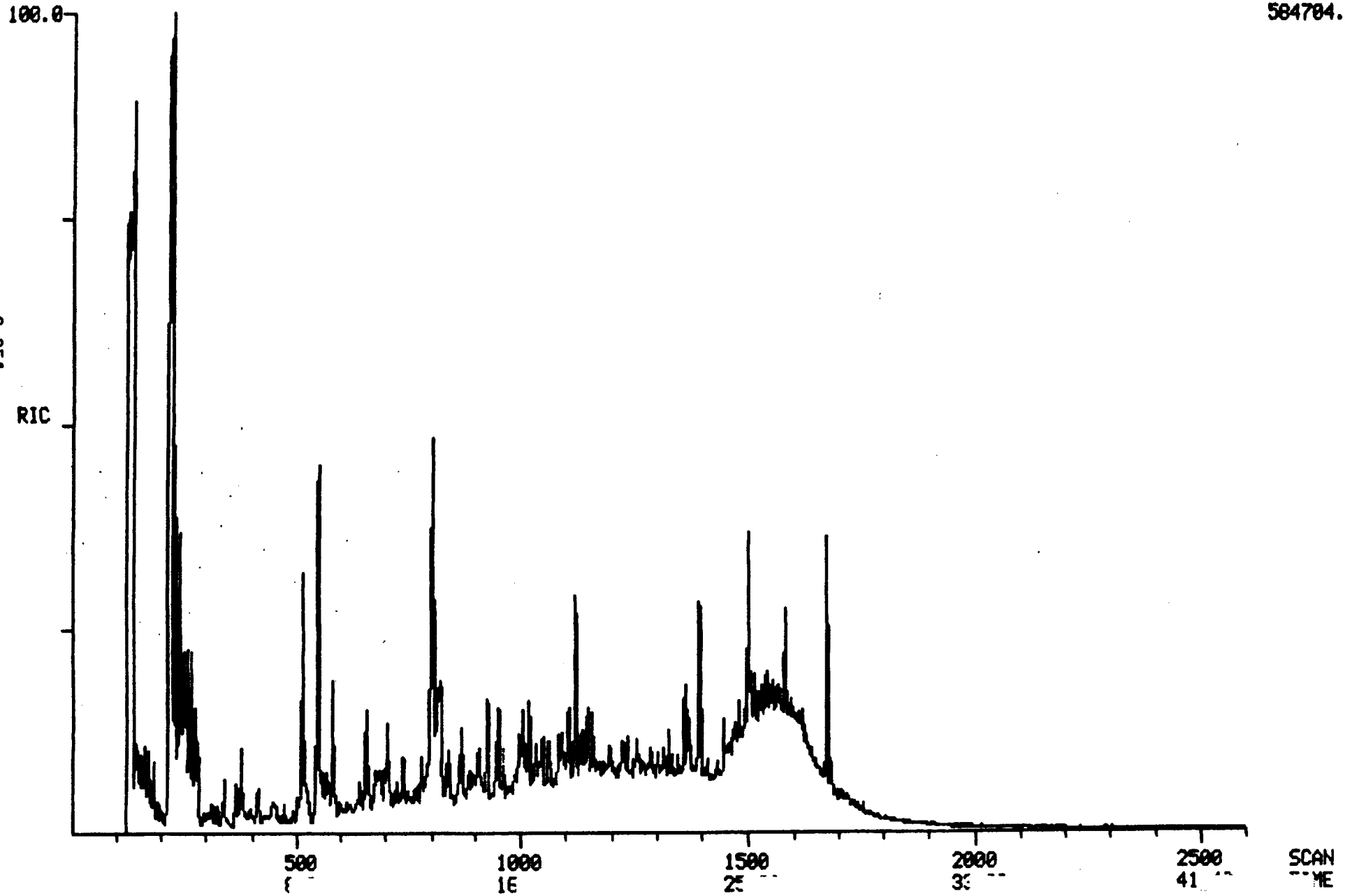
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	582	9:42	1	1.000	A BB	57399.	80.000 PPB	2.43
2	112	421	7:01	1	0.723	A BB	118649.	288.916 PPB	8.76
3	99	666	9:26	1	0.973	A BV	176453.	256.737 PPB	7.78
4	82	684	11:24	1	1.175	A BB	106658.	152.654 PPB	4.63
5	74	260	4:20	1	0.447	A BB	1786.	2.683 PPB	0.08
6	94	667	9:27	1	0.974	A BB	411130.	1196.030 PPB	36.26
7	93	565	9:25	1	0.971	A BB	9768.	8.614 PPB	0.26
8	108	654	10:54	1	1.124	A BB	14840.	18.538 PPB	0.56
9	108	654	10:54	1	1.124	A BB	14840.	18.538 PPB	0.56
10	108	680	11:20	1	1.168	A BB	147065.	190.046 PPB	5.76
11	70	684	11:24	1	1.175	A BB	14447.	19.849 PPB	0.60
12	77	680	11:20	1	1.168	A BB	56980.	48.526 PPB	1.47
13	136	801	13:21	13	1.000	A BV	200443.	80.000 PPB	2.43
14	139	737	12:17	13	0.920	A VB	2080.	4.069 PPB	0.12
15	122	759	12:39	13	0.948	A VV	10177.	18.164 PPB	0.55
16	93	764	12:44	13	0.954	A VV	7067.	5.228 PPB	0.16
17	164	1124	18:44	17	1.000	A BB	96051.	80.000 PPB	2.43
18	172	1008	16:48	17	0.897	A BB	188396.	156.864 PPB	4.76
19	165	1124	18:44	17	1.000	A BB	6335.	143.146 PPB	4.34
20	188	1396	23:16	20	1.000	A VB	194554.	80.000 PPB	2.43
21	330	1275	21:15	20	0.913	A VB	68211.	266.190 PPB	8.07
22	169	1257	20:57	20	0.900	A BB	6277.	6.691 PPB	0.20
23	149	1503	25:03	20	1.077	A BB	10166.	3.241 PPB	0.10
24	240	1679	27:59	24	1.000	A BB	151942.	80.000 PPB	2.43
25	149	1689	28:09	24	1.006	A BB	31396.	13.995 PPB	0.42
26	264	1922	32:02	26	1.000	A BB	109240.	80.000 PPB	2.43

MIDRIC
08/06/85 18:14:00
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

RUN PCIO-3 +10.2

DATA: EQ260D #1
CALI: EQ260D #2

SCANS 1 TO 2600



C-354

Quantitation Report File: EQ260D

PCI03 XAD2

Data: EQ260D.TI
08/06/85 18:14:00
Sample: Y159, 1 TO 10 DIL, TRAP ID-3
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: PEI Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 10.000
Resp. fac. from Library Entry

1.27 m^3

NO		NAME
1	1	IS #1: D4-1,4-DICHLOROBENZENE (152)
3	2	GC #2: D5-PHENOL (99)
4	3	GC #3: D5-NITROBENZENE (82)
12	4	1,2-DICHLOROBENZENE (146)
~~14~~	~~5~~	~~BIS(2-CHLOROISOPROPYL)ETHER (45)~~
~~16~~	~~6~~	~~N-NITROSO-DI-PROPYLAMINE (70) ** $~~
18	7	NITROBENZENE (77)
19	8	IS #2: D8-NAPHTHALENE (136)
21	9	2-NITROPHENOL (139) *
27	10	NAPHTHALENE (128)
~~29~~	~~11~~	~~4-CHLORO-3-METHYLPHENOL (142) * $~~
30	12	2-METHYLNAPHTHALENE (141)
31	13	IS #3: D10-ACENAPTHENE (164)
32	14	GC #4: 2-FLUOROBIPHENYL (172)
41	15	2,4-DINITROPHENOL (184) ** $
42	16	4-NITROPHENOL (65) ** $
43	17	DIBENZOFURAN (168)
44	18	2,4-DINITROTOLUENE (165) $
~~45~~	~~19~~	~~2,6-DINITROTOLUENE (165)~~
46	20	DIETHYL PHTHALATE (149)
48	21	FLUORENE (166)
50	22	4,6-DINITRO-2-METHYLPHENOL (198)
51	23	IS #4: D10-PHENANTHRENE (188)
53	24	N-NITROSODIPHENYLAMINE (169) *
57	25	PHENANTHRENE (178)
59	26	FLUORANTHENE (202) *
60	27	BENZIDINE (184)
1	28	IS #5: D12-CHRYSENE (240)
2	29	GC #6: D14-TERPHENYL (244)
64	30	BUTYLBENZYLPHTHALATE (149)
7	31	BIS(2-ETHYLHEXYL)PHTHALATE (149)
7	32	IS #6: D12-PERYLENE (264)

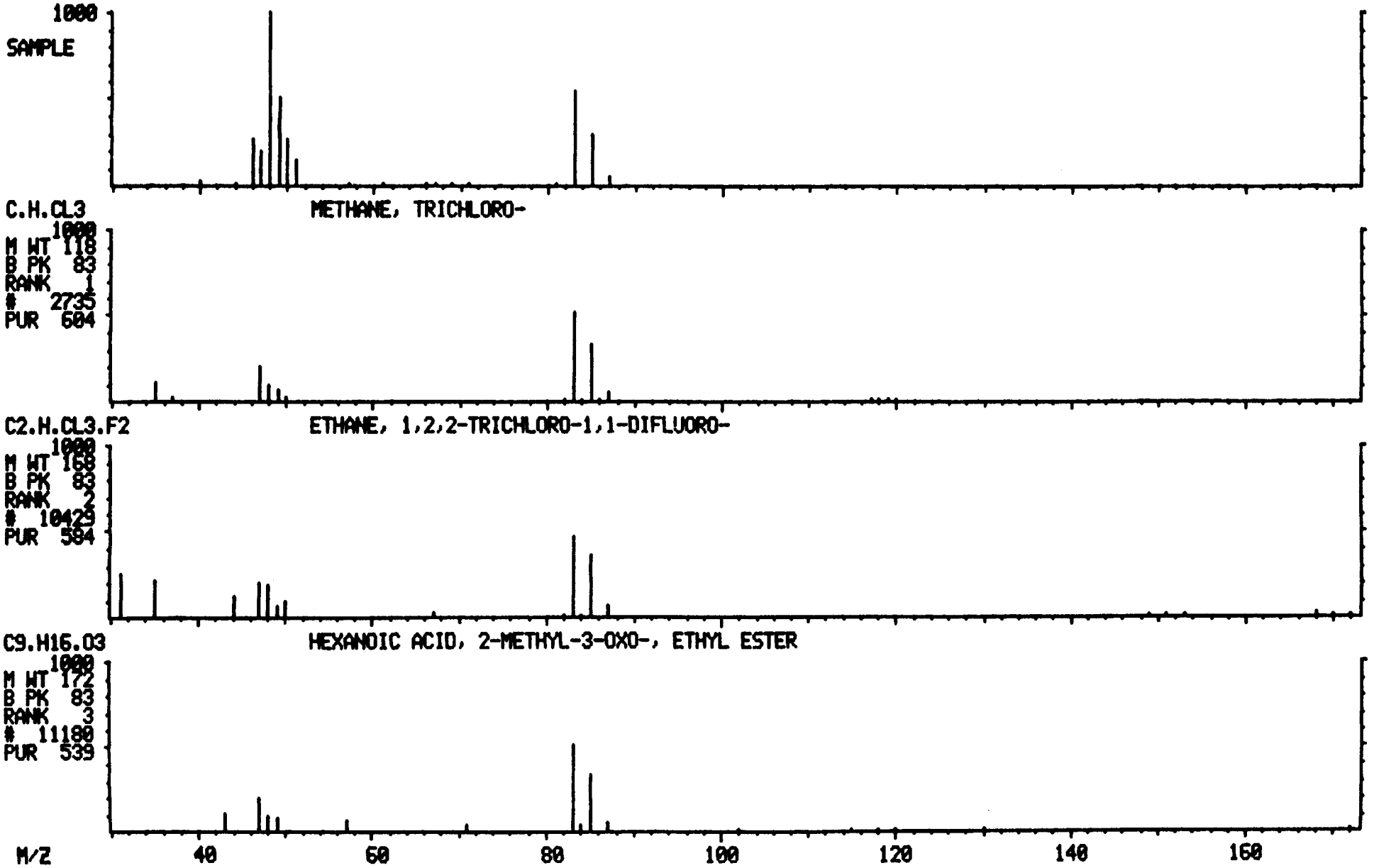
scan 739 2-Nphenol

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	581	9:41	1	1.000	A BB	53006.	400.000 PPB	6.79
2	99	550	9:10	1	0.947	A BB	13061.	97.208 PPB	1.65
3	82	681	11:21	1	1.172	A BB	23047.	171.033 PPB	2.90
4	146	613	10:13	1	1.055	A BB	2682.	11.415 PPB	0.19
5	45	636	10:36	1	1.095	A BB	7883.	33.820 PPB	0.56
6	70	681	11:21	1	1.172	A BB	2217.	16.159 PPB	0.27
7	77	684	11:24	1	1.177	A BB	17177.	74.590 PPB	1.27
8	136	800	13:20	8	1.000	A BB	174918.	400.000 PPB	6.79
9	139	756	12:36	8	0.945	A BB	1896.	22.116 PPB	0.38
10	128	804	13:24	8	1.005	A BB	331810.	714.716 PPB	12.12
11	142	930	15:30	8	1.162	A BB	36134.	129.927 PPB	2.20
12	141	930	15:30	8	1.162	A BB	36134.	129.927 PPB	2.20
13	164	1123	18:43	13	1.000	A BB	90250.	400.000 PPB	6.79
14	172	1006	16:46	13	0.896	A BB	39063.	181.146 PPB	3.07
15	184	1149	19:09	13	1.023	A BB	13654.	791.578 PPB	13.43
16	65	1183	19:43	13	1.053	A BB	4501.	80.188 PPB	1.36
17	168	1159	19:19	13	1.032	A BB	54826.	120.875 PPB	2.05
18	165	1174	19:34	13	1.045	A VB	1286.	11.555 PPB	0.20
19	165	1123	18:43	13	1.000	A BV	14161.	179.832 PPB	3.05
20	149	1229	20:29	13	1.094	A BB	18914.	51.929 PPB	0.88
21	166	1223	20:23	13	1.089	A BV	5068.	15.104 PPB	0.26
22	198	1251	20:51	13	1.114	A BB	2716.	86.770 PPB	1.47
23	188	1395	23:15	23	1.000	A BB	157538.	400.000 PPB	6.79
24	169	1255	20:55	23	0.900	A BV	5793.	36.987 PPB	0.63
25	178	1399	23:19	23	1.003	A BV	42972.	88.754 PPB	1.91
26	202	1547	25:47	23	1.109	A BB	7991.	19.941 PPB	0.34
27	184	1563	26:03	23	1.120	A VV	1843.	14.298 PPB	0.24
28	240	1676	27:56	28	1.000	A VV	120205.	400.000 PPB	6.79
29	244	1582	26:22	28	0.944	A VB	38387.	181.845 PPB	3.08
30	149	1624	27:04	28	0.969	A BB	3151.	10.642 PPB	0.18
31	149	1684	28:04	28	1.005	A BB	10535.	26.245 PPB	0.45
32	264	1755	29:15	32	1.000	A BB	1560.	400.000 PPB	6.79

MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:05
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 125
CALI: EQ2600 # 2

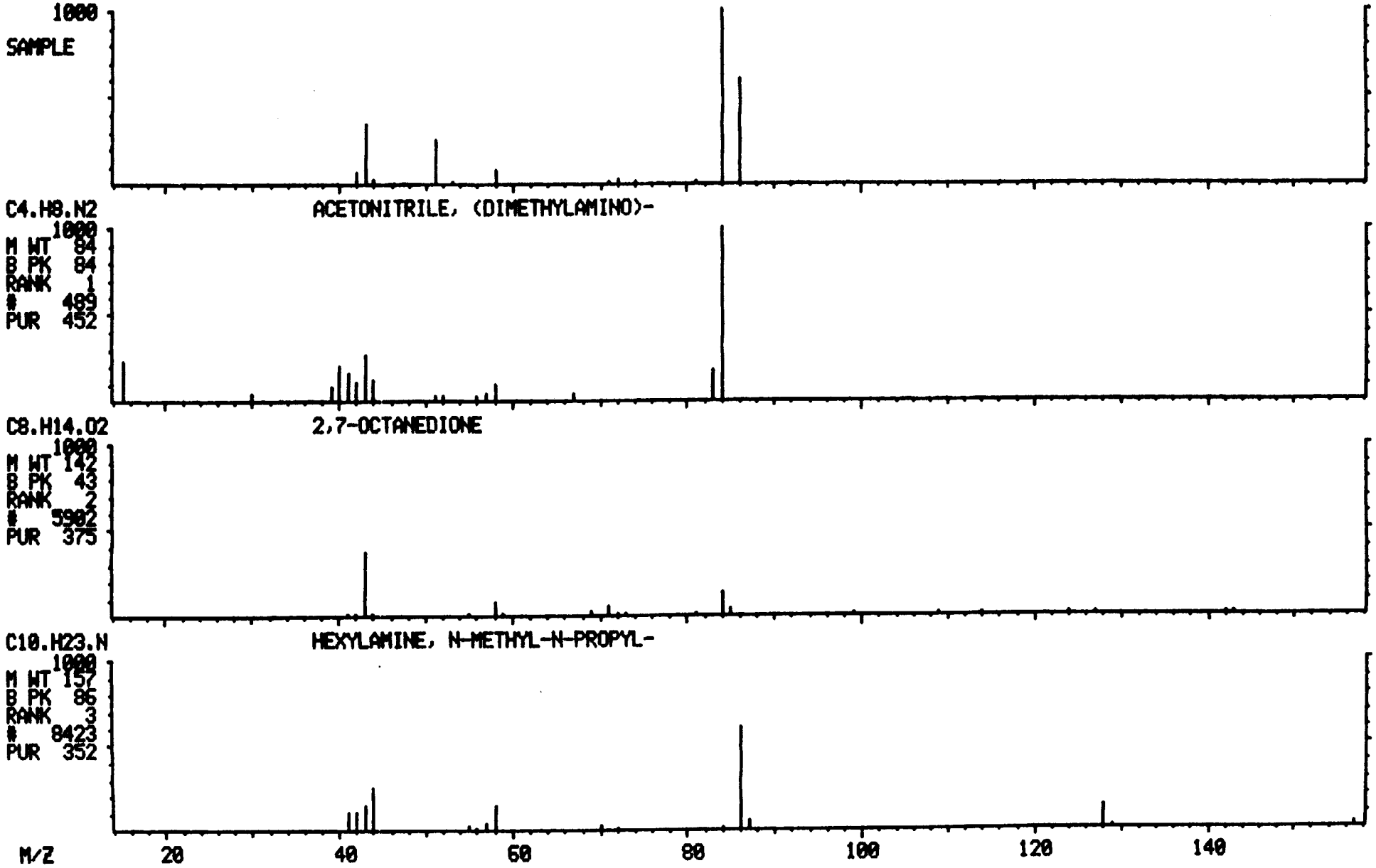
BASE M/Z: 48
RIC: 89727.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:09
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 129
CALI: EQ2600 # 2

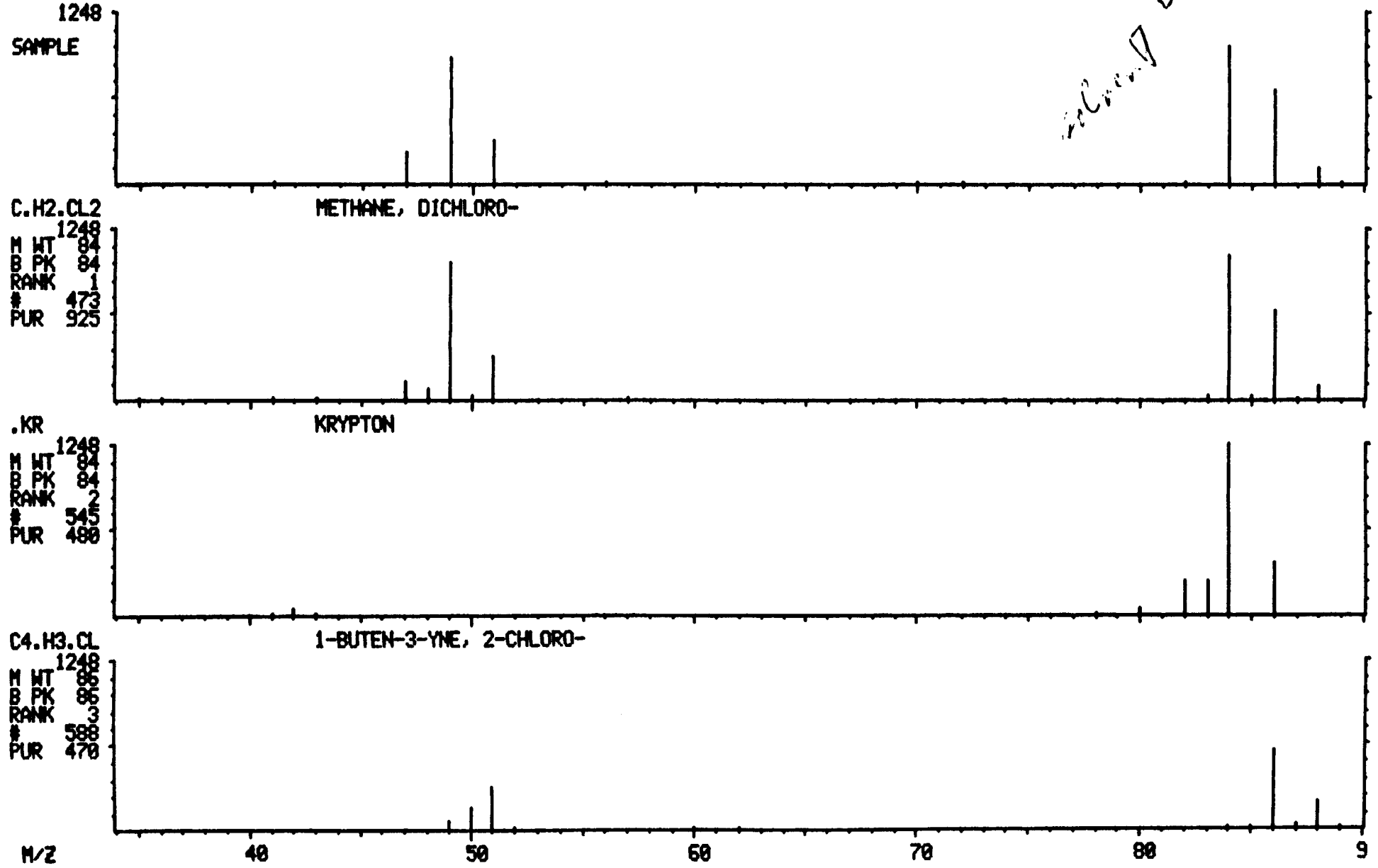
BASE M/Z: 84
RIC: 12815.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:18
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 138
CALI: EQ2600 # 2

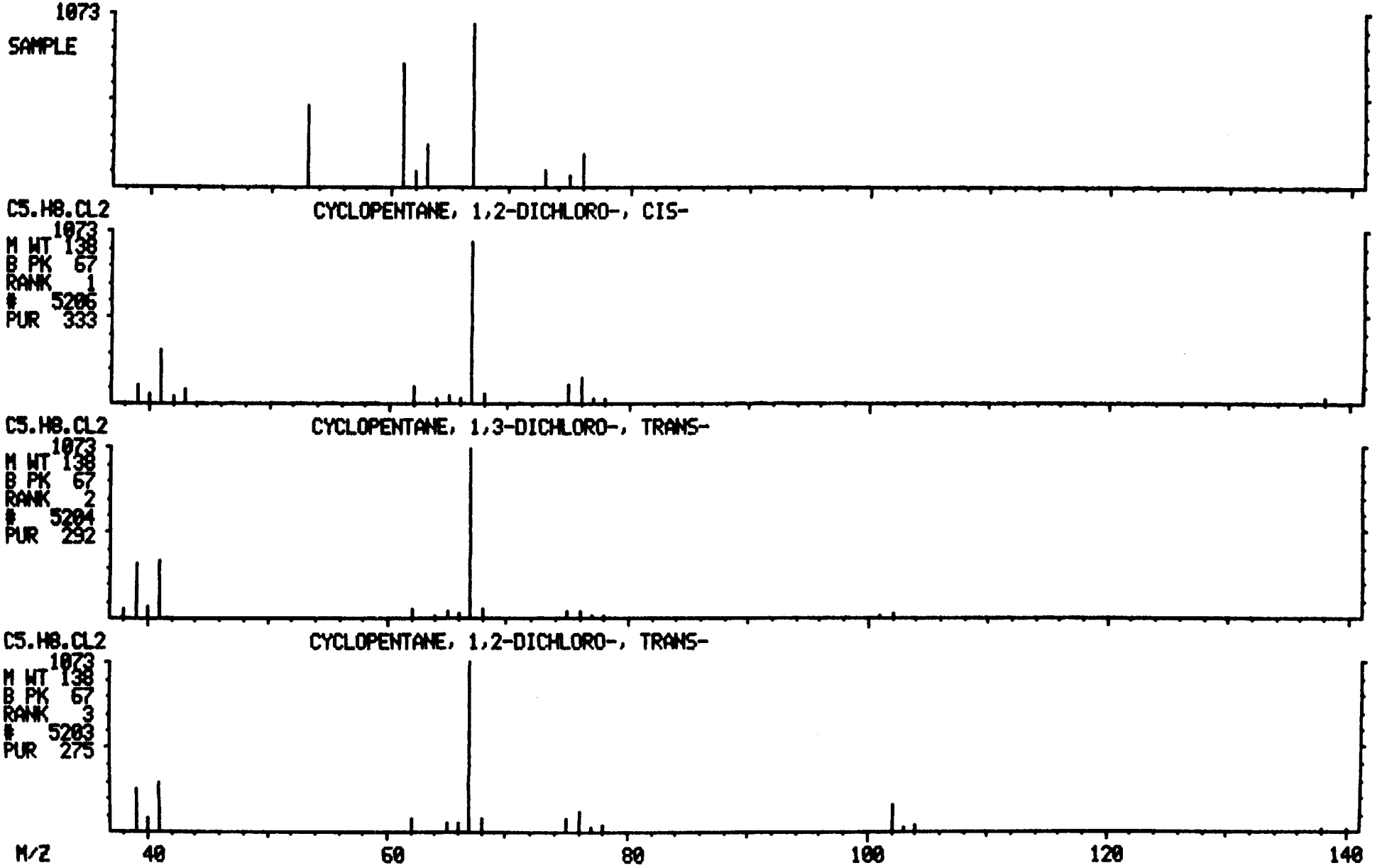
BASE M/Z: 84
RIC: 152063.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:23
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 143
CALI: EQ2600 # 2

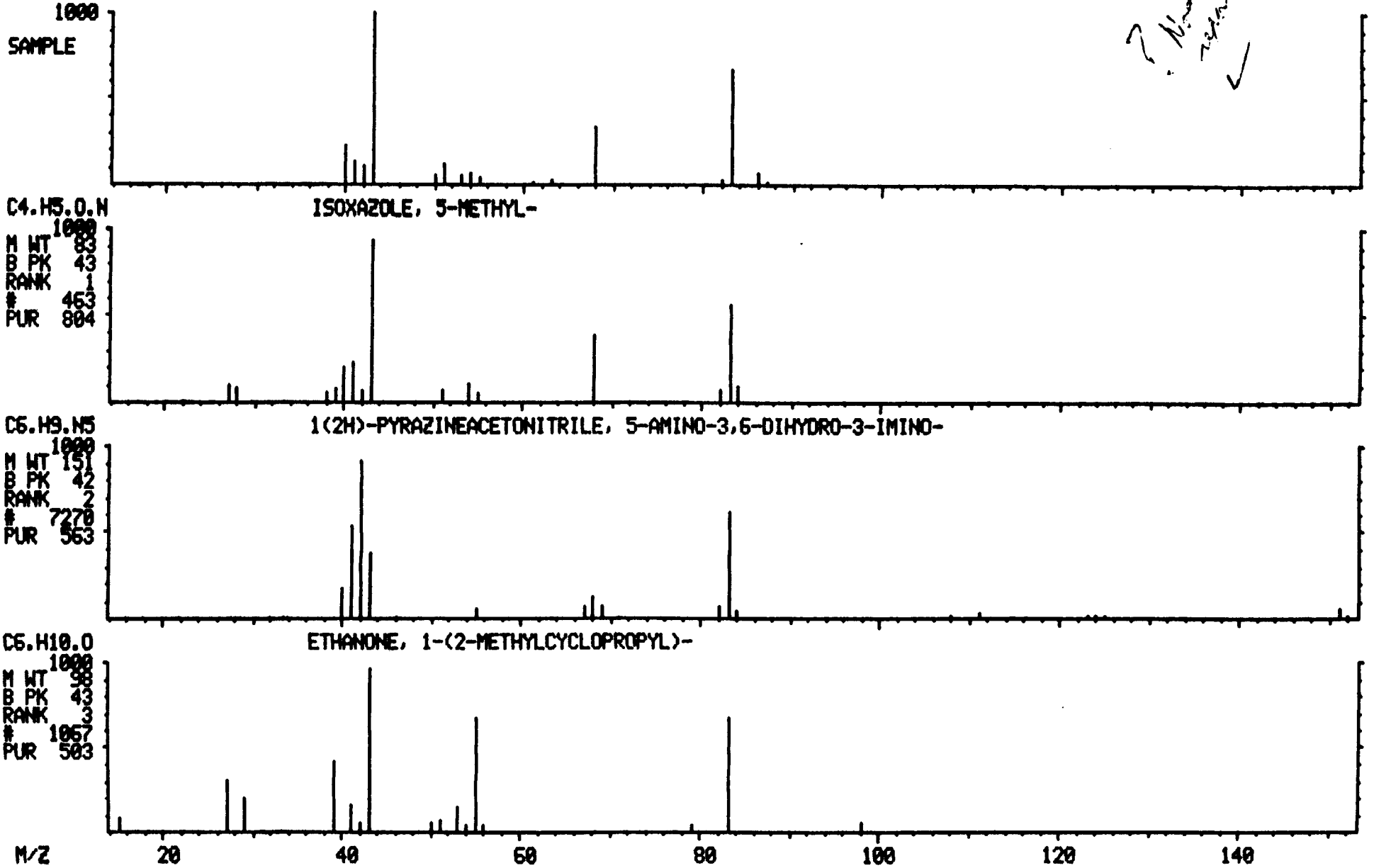
BASE M/Z: 67
RIC: 797.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:35
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 155
CALI: EQ2600 # 2

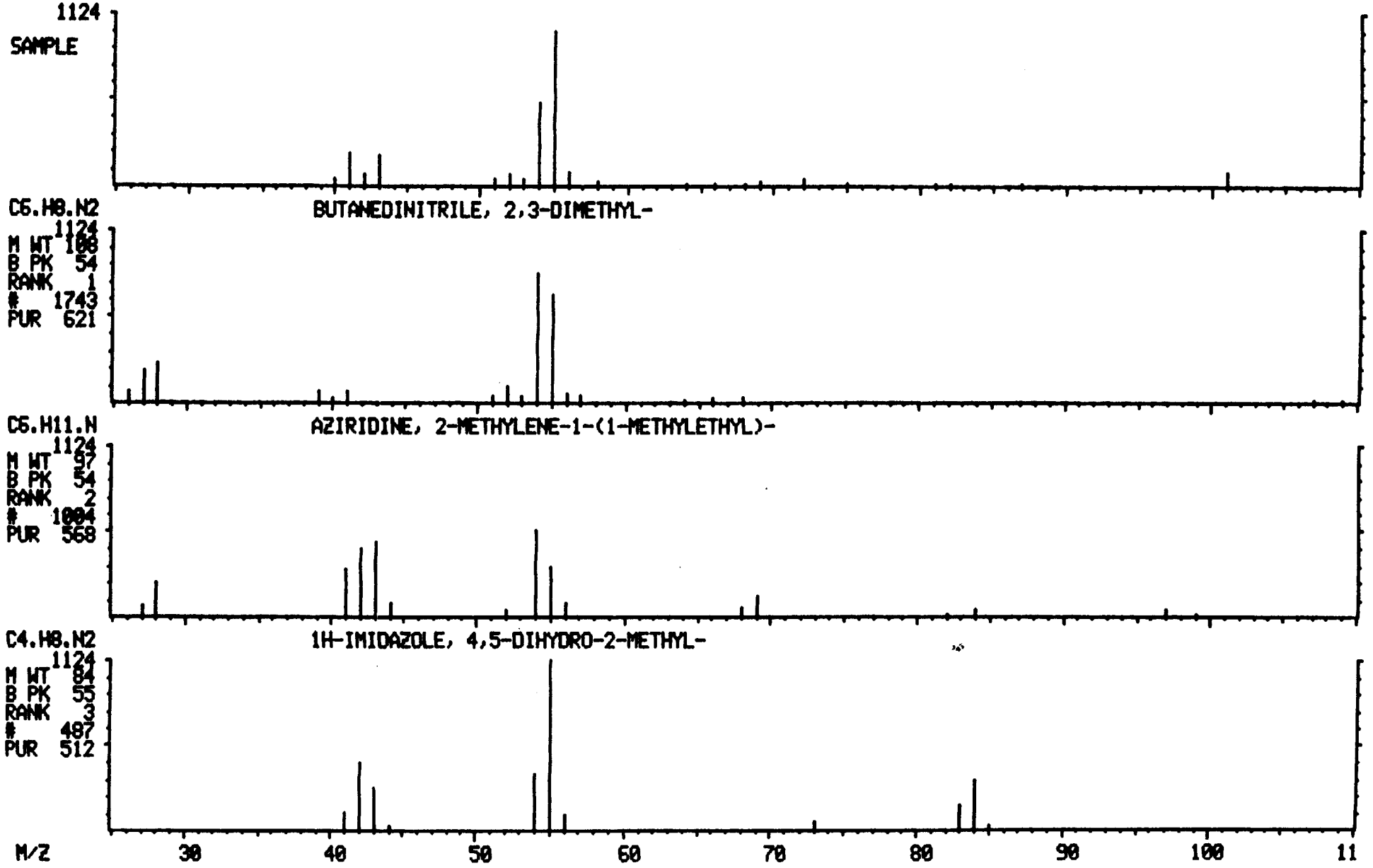
BASE M/Z: 43
RIC: 12303.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:44
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 164
CALI: EQ260D # 2

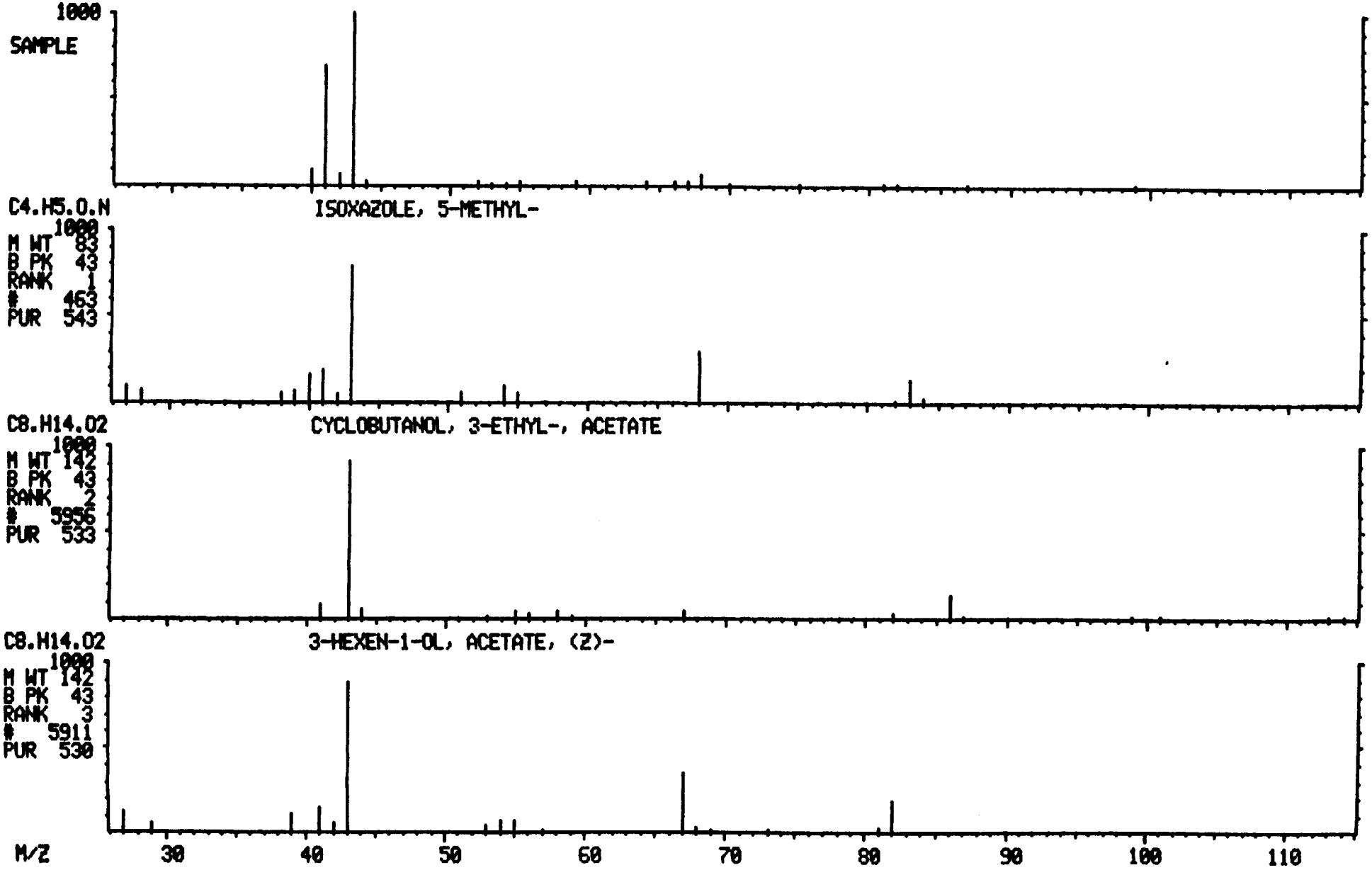
BASE M/Z: 55
RIC: 21343.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 2:52
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 172
CALI: EQ2600 # 2

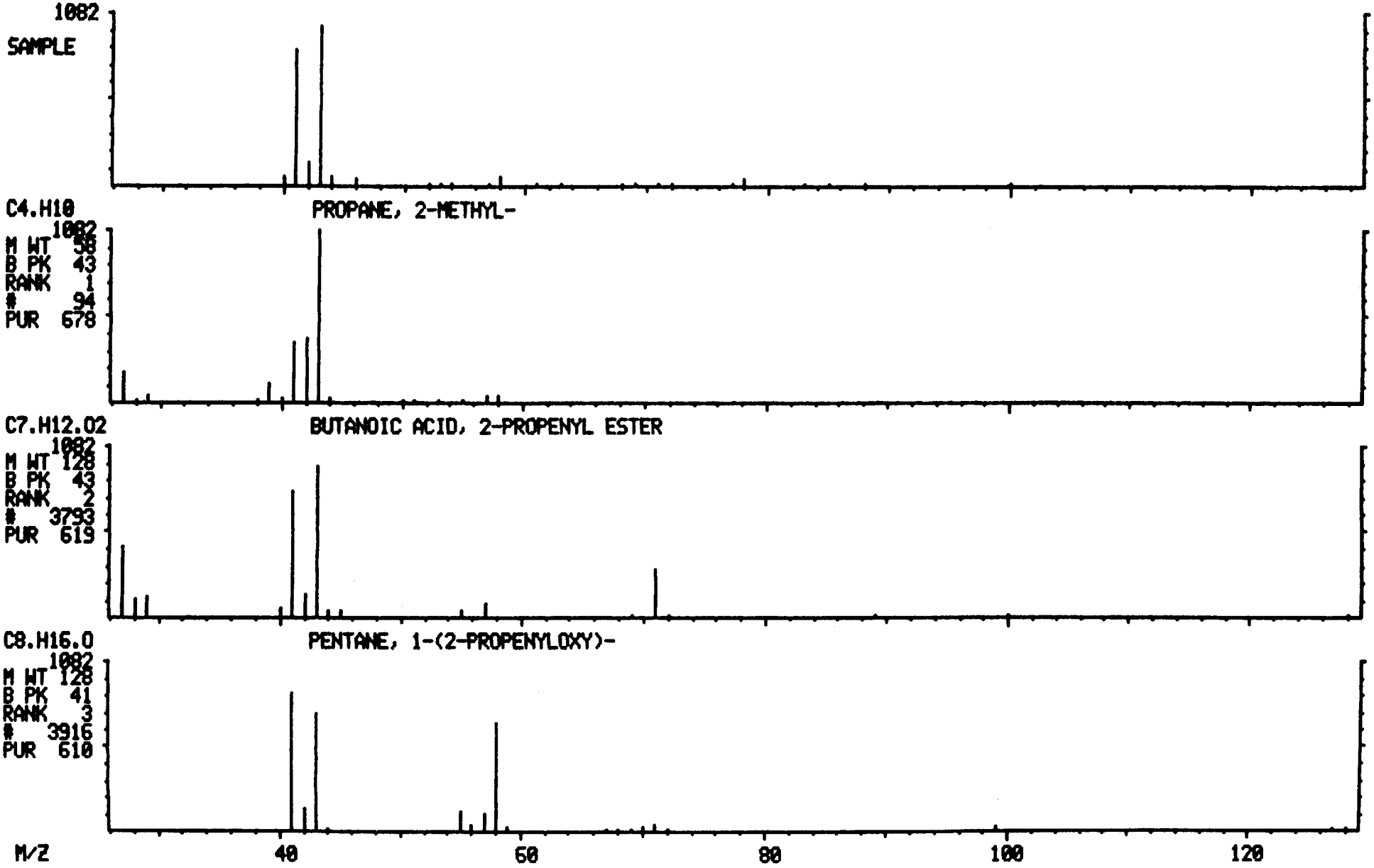
BASE M/Z: 43
RIC: 26591.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 3:04
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 184
CALI: EQ260D # 2

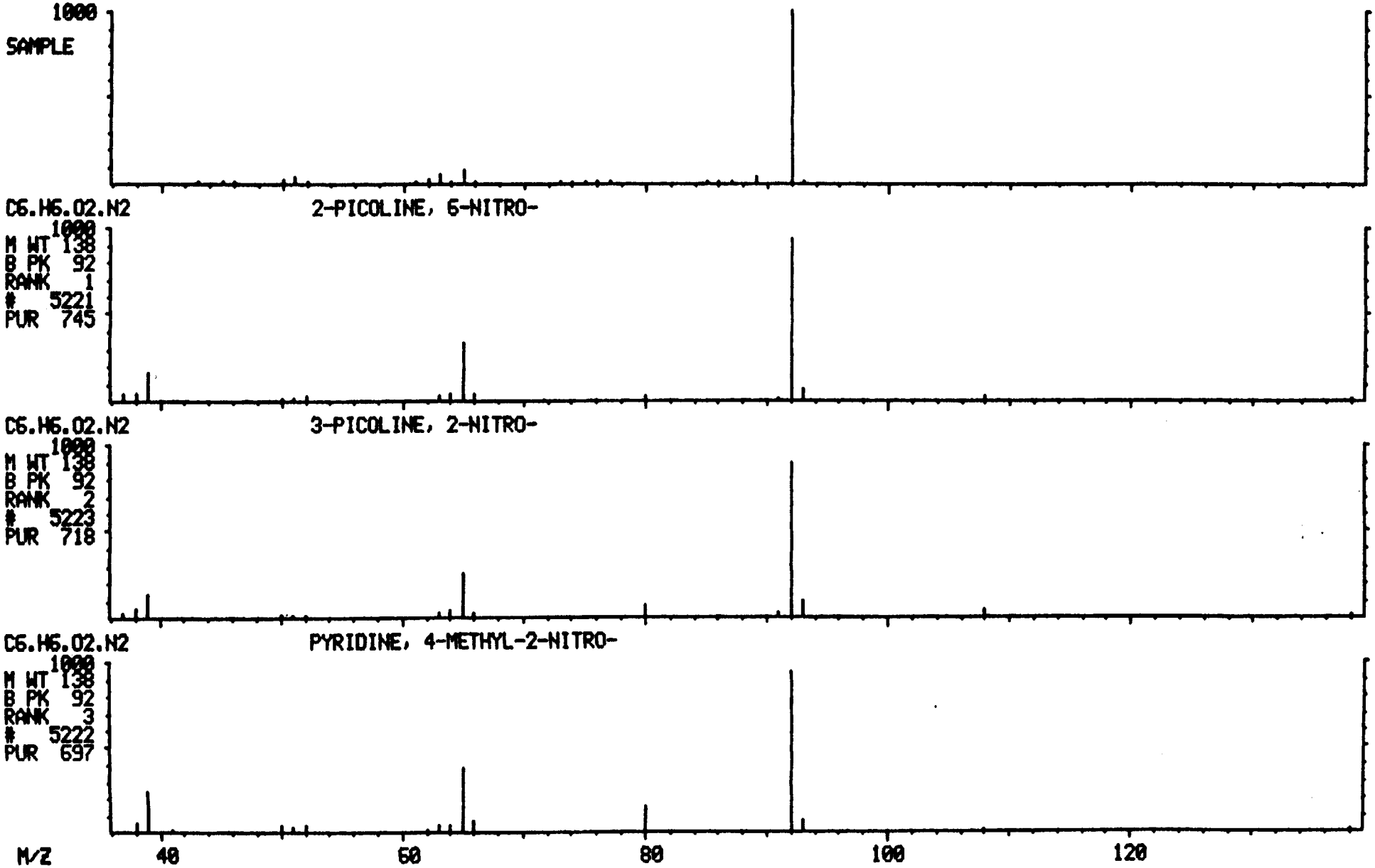
BASE M/Z: 43
RIC: 30239.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 3:45
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 225
CALI: EQ2600 # 2

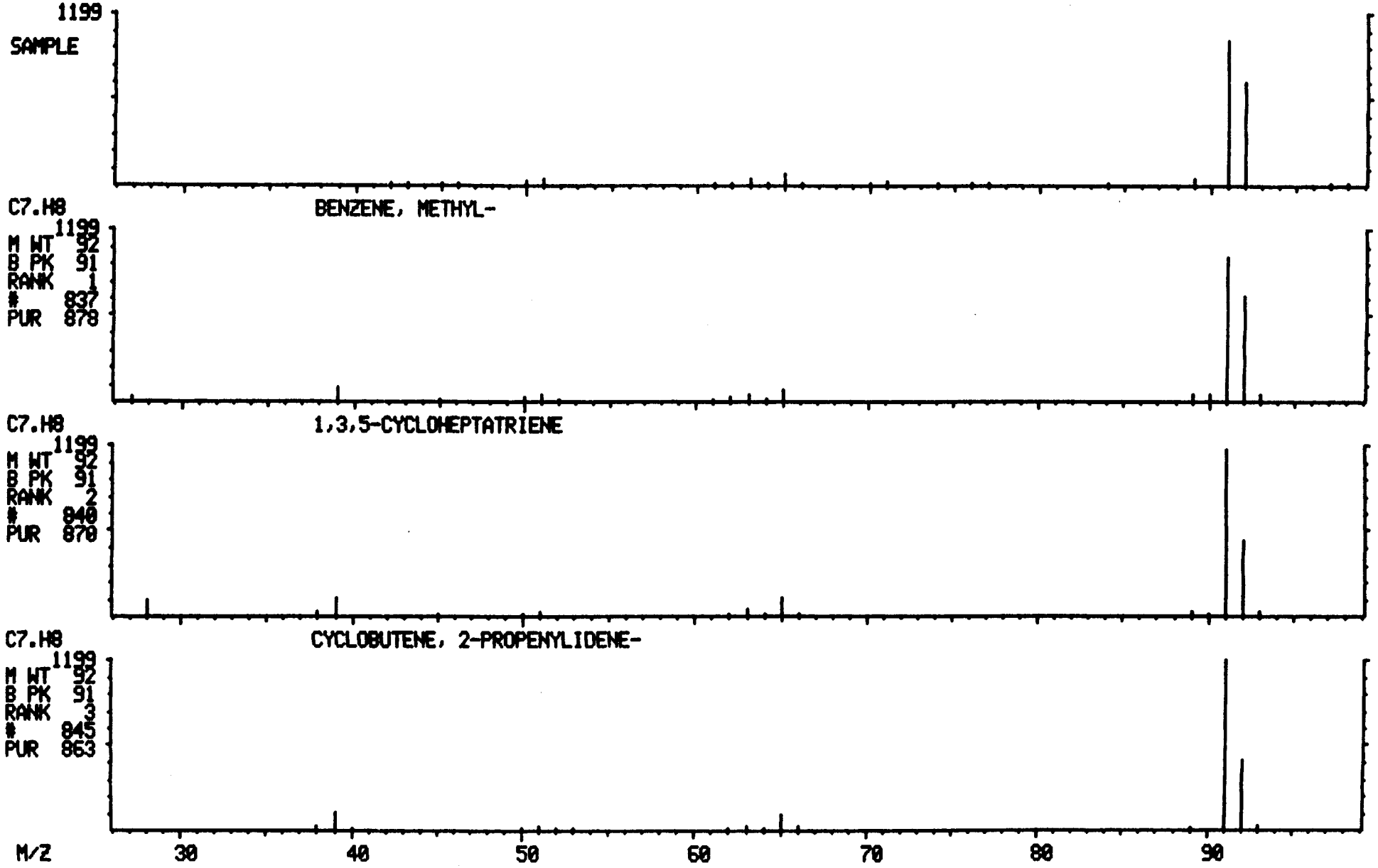
BASE M/Z: 92
RIC: 269823.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 3:49
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 229
CALI: EQ2600 # 2

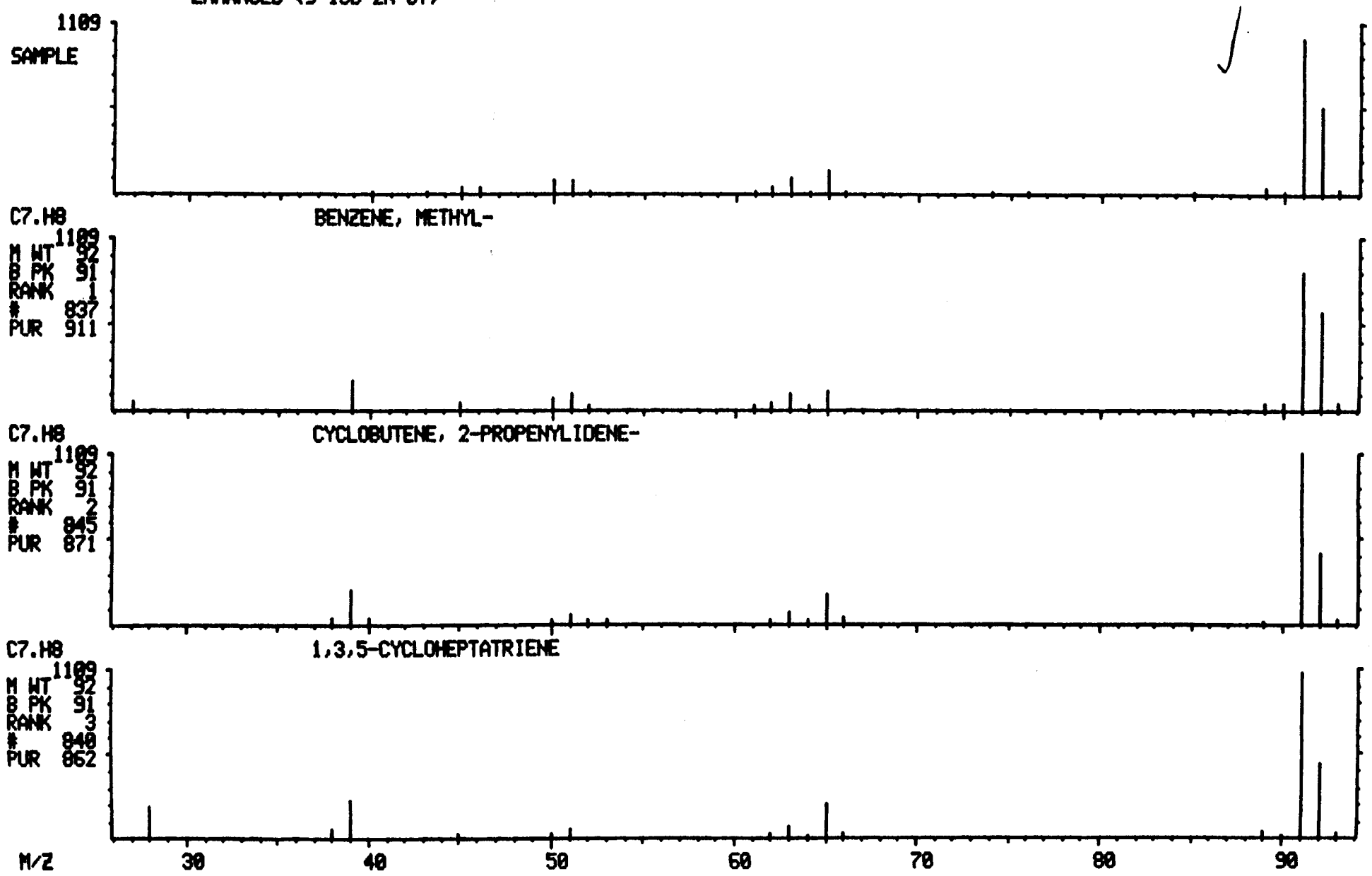
BASE M/Z: 91
RIC: 104447.



MID LIBRARY SEARCH
08/06/85 10:14:00 + 3:55
SAMPLE: Y159, 1 TO 10 OIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 235
CALI: EQ2600 # 2

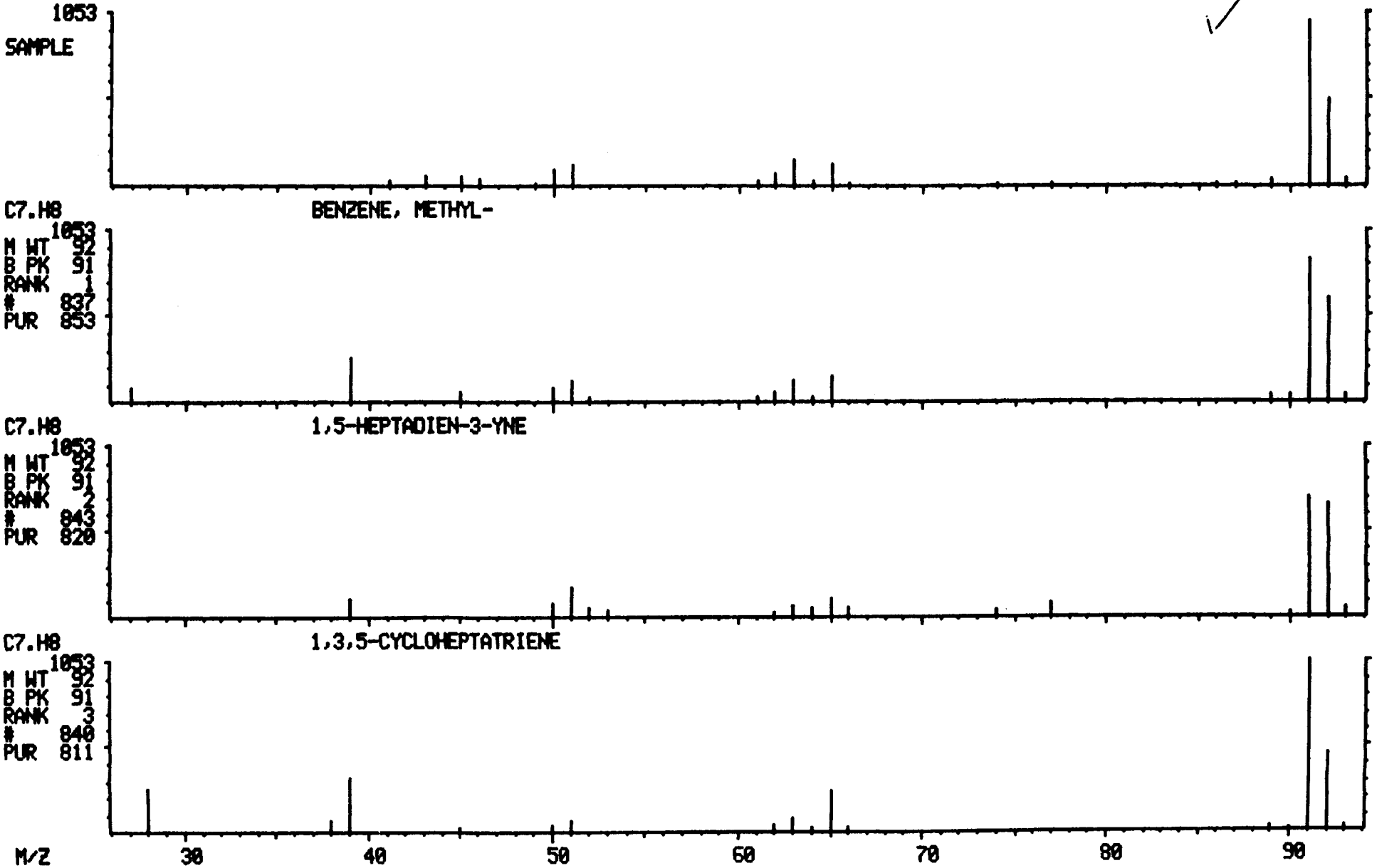
BASE M/Z: 91
RIC: 46847.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:01
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 241
CALI: EQ260D # 2

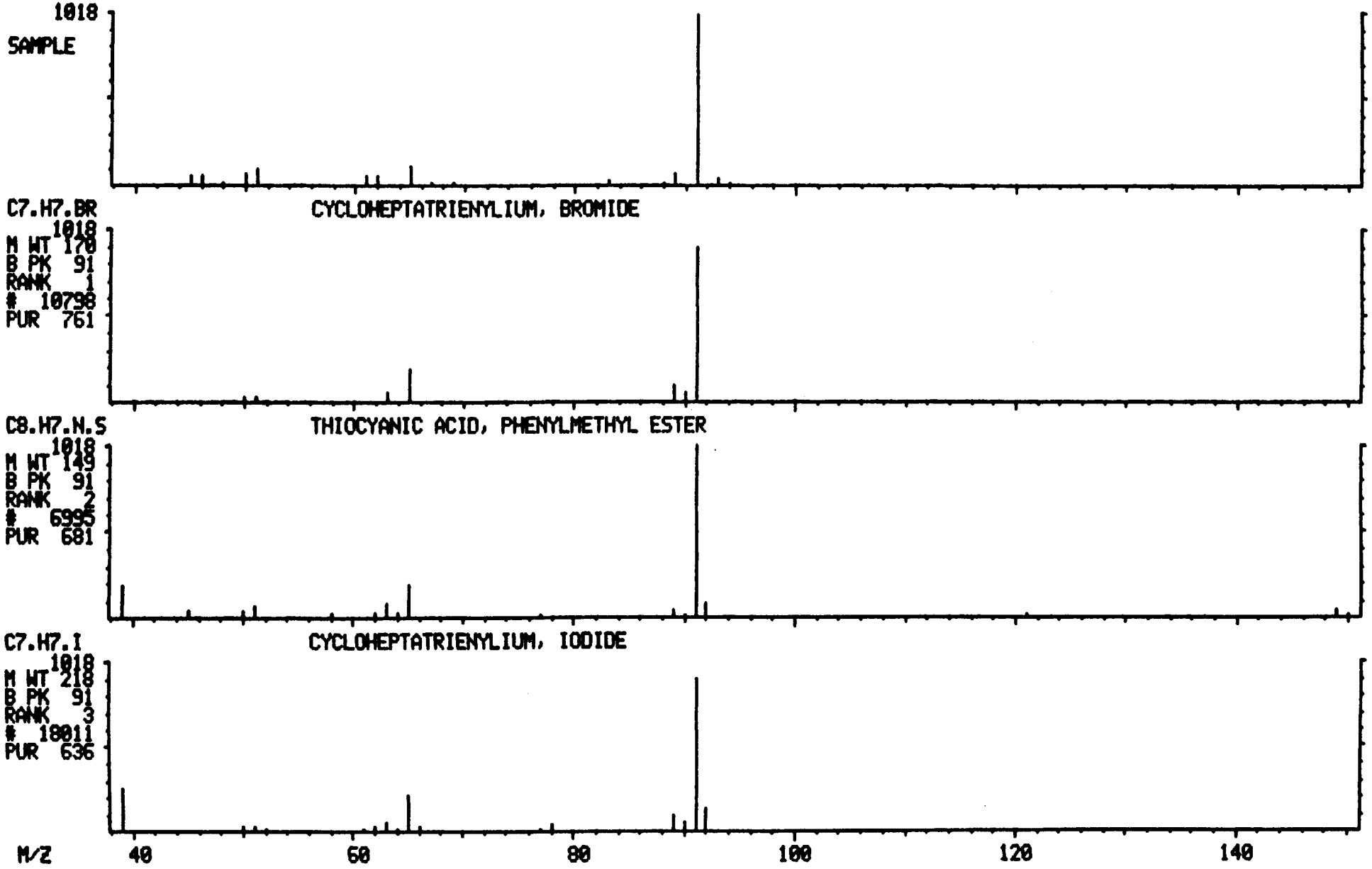
BASE M/Z: 91
RIC: 55679.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:07
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 247
CALI: EQ260D # 2

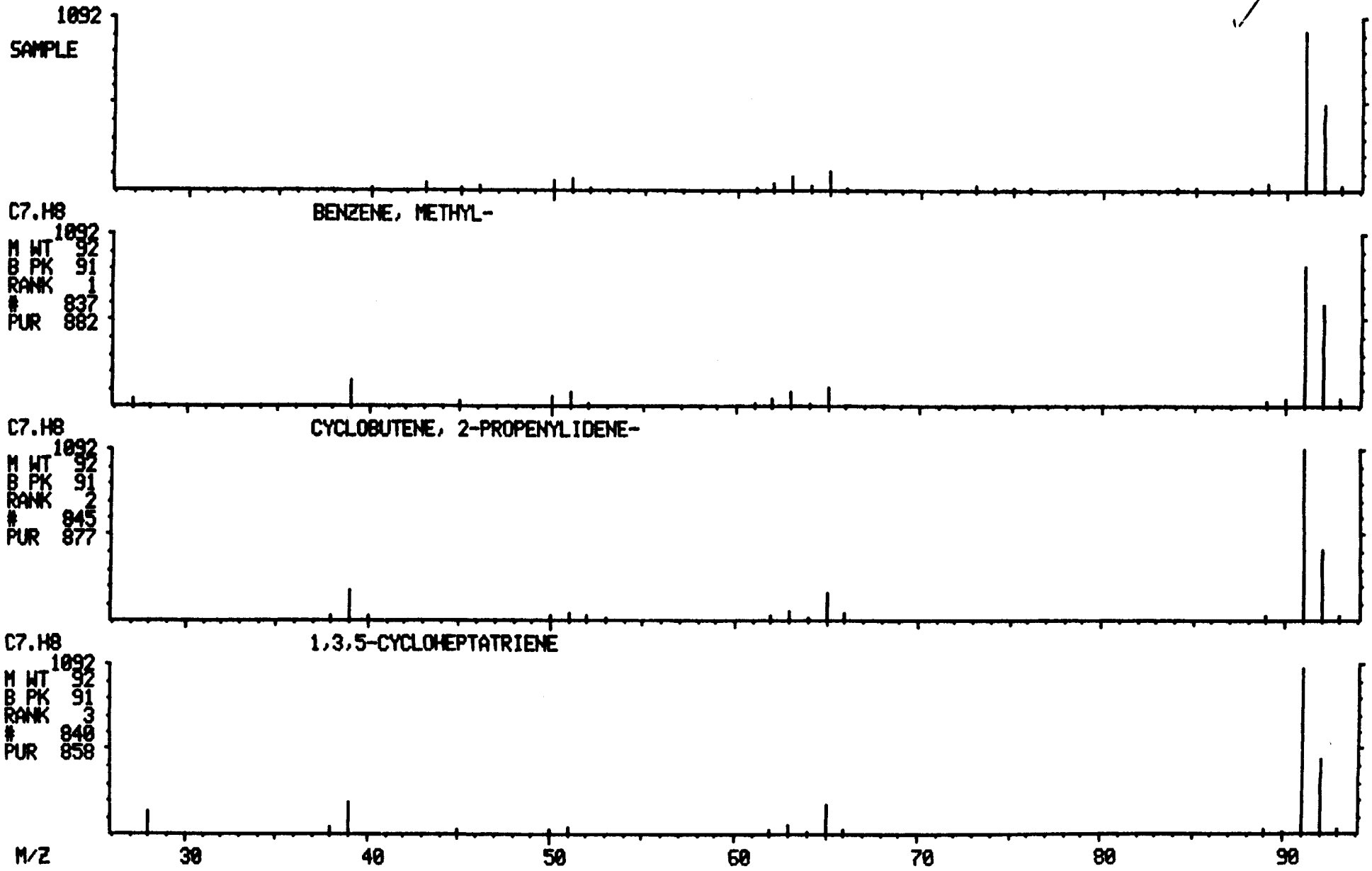
BASE M/Z: 91
RIC: 11055.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:11
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 251
CALI: EQ2600 # 2

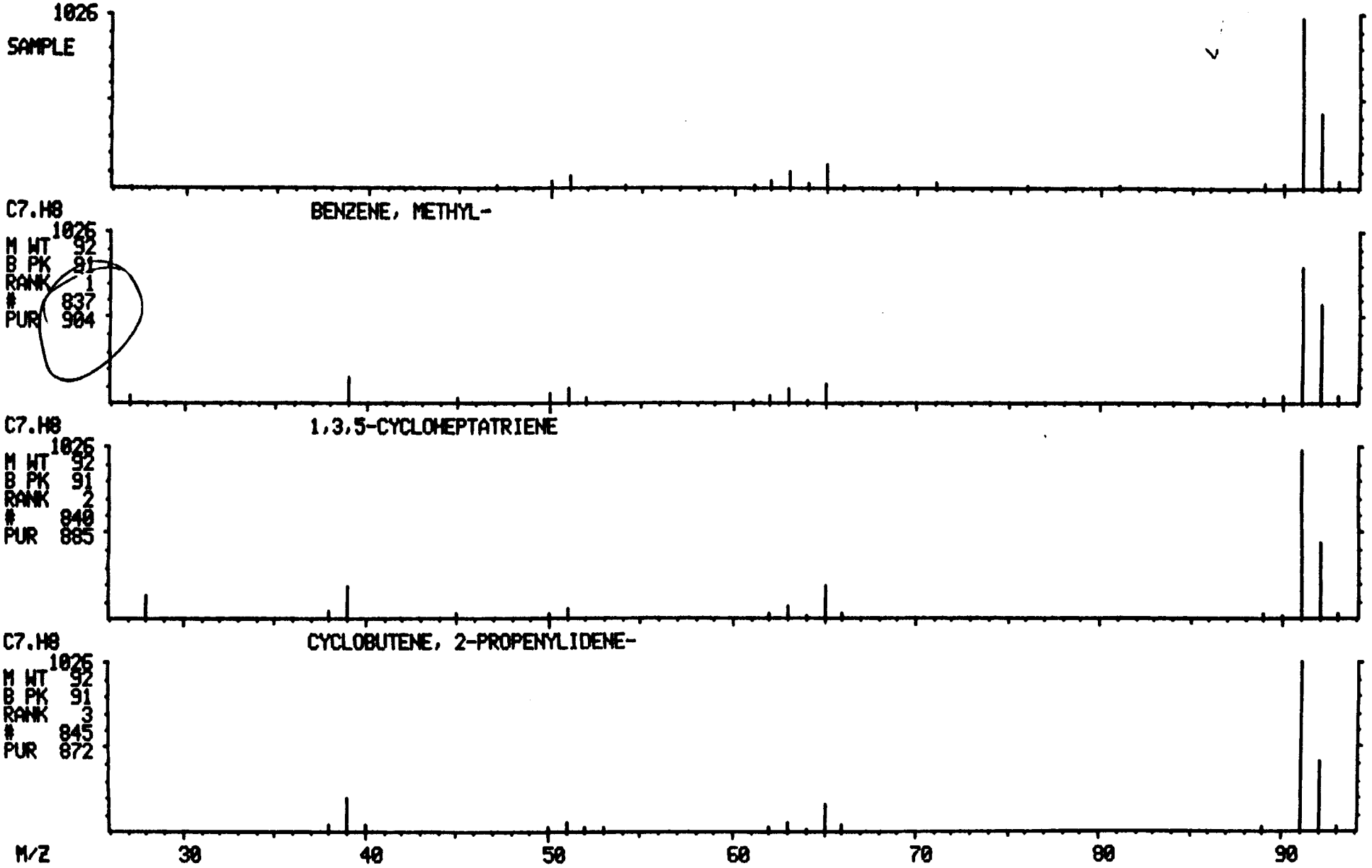
BASE M/Z: 91
RIC: 39423.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:15
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 255
CALI: EQ260D # 2

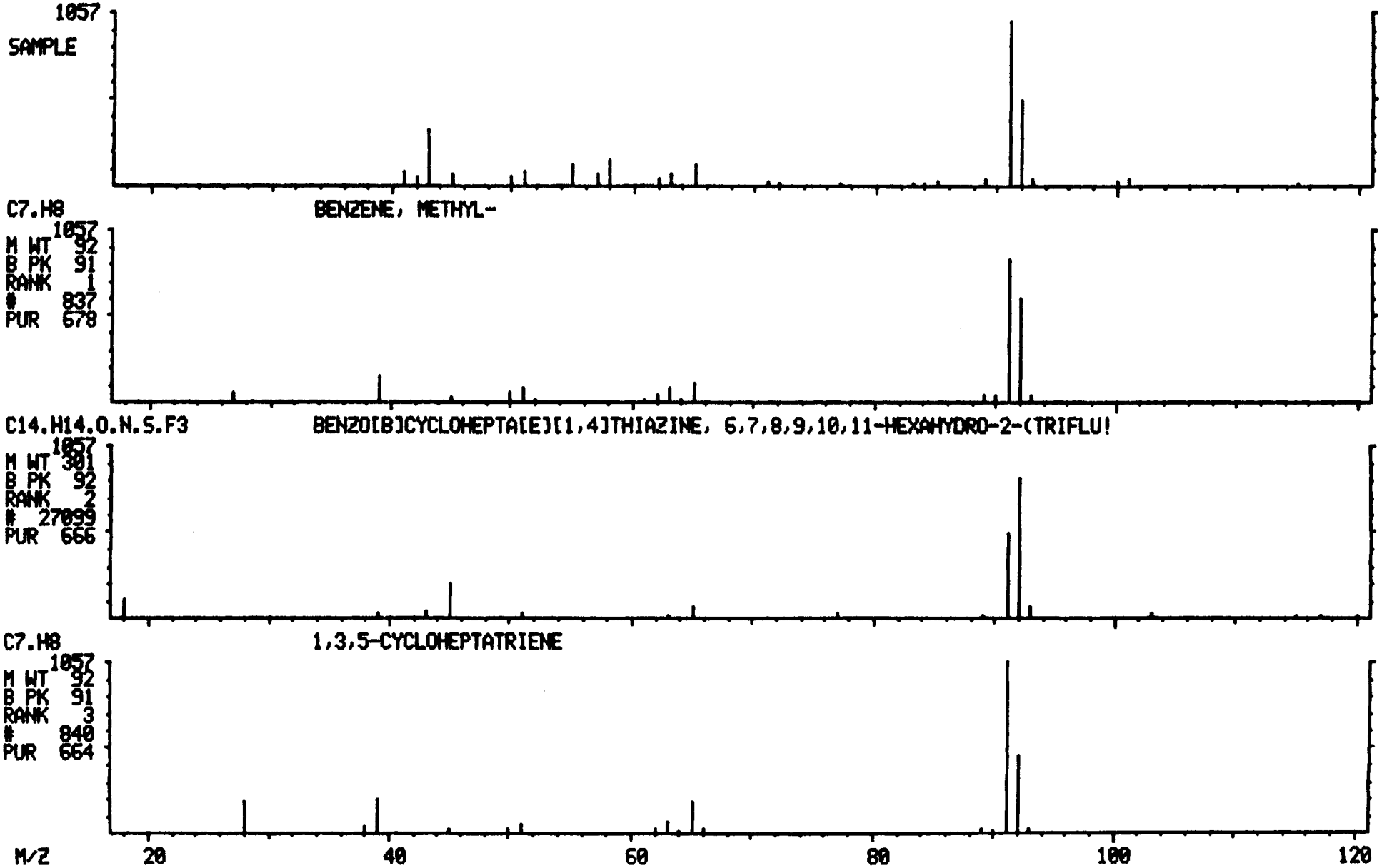
BASE M/Z: 91
RIC: 22335.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:20
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 260
CALI: EQ2600 # 2

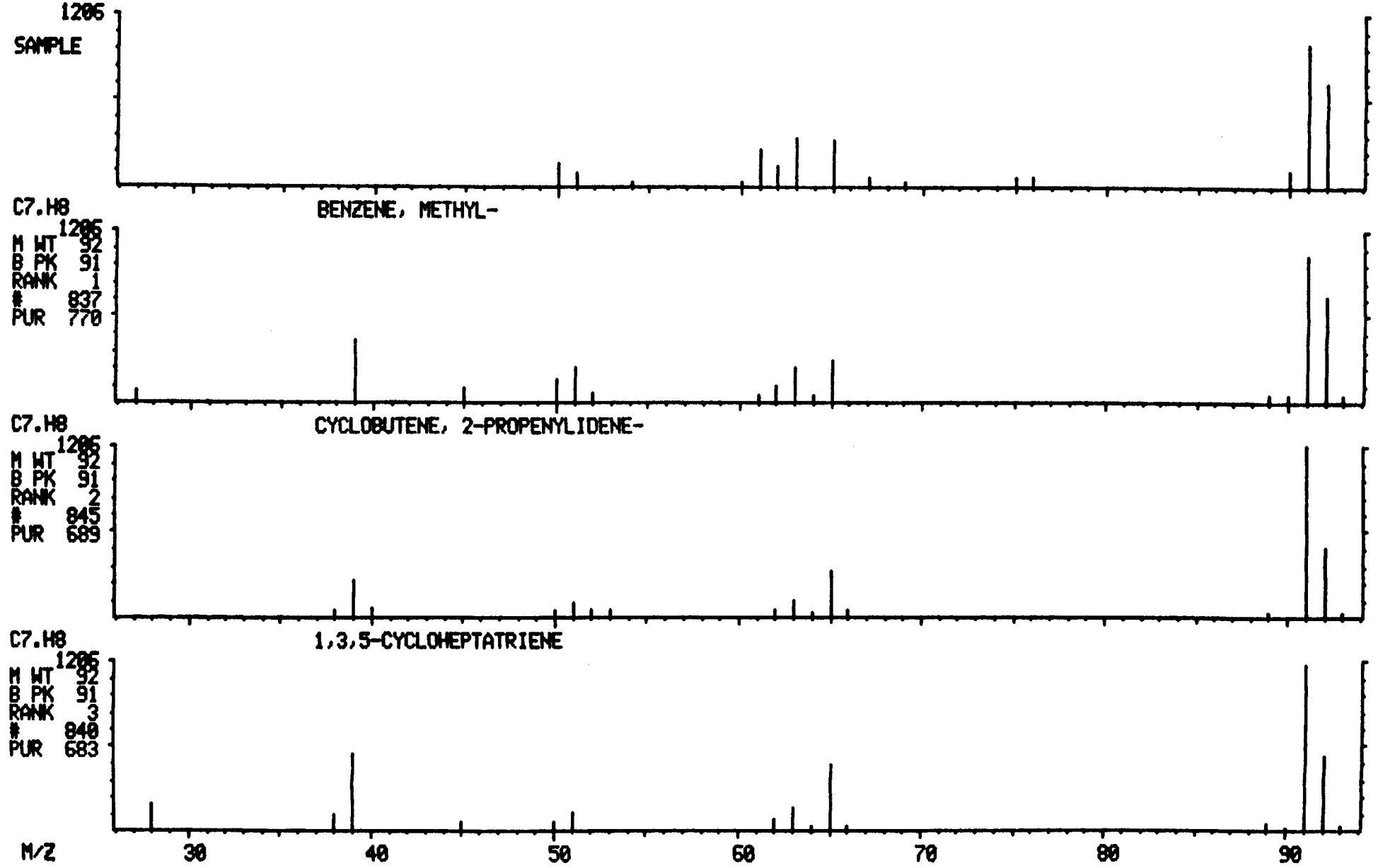
BASE M/Z: 91
RIC: 45631.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:24
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 264
CALI: EQ260D # 2

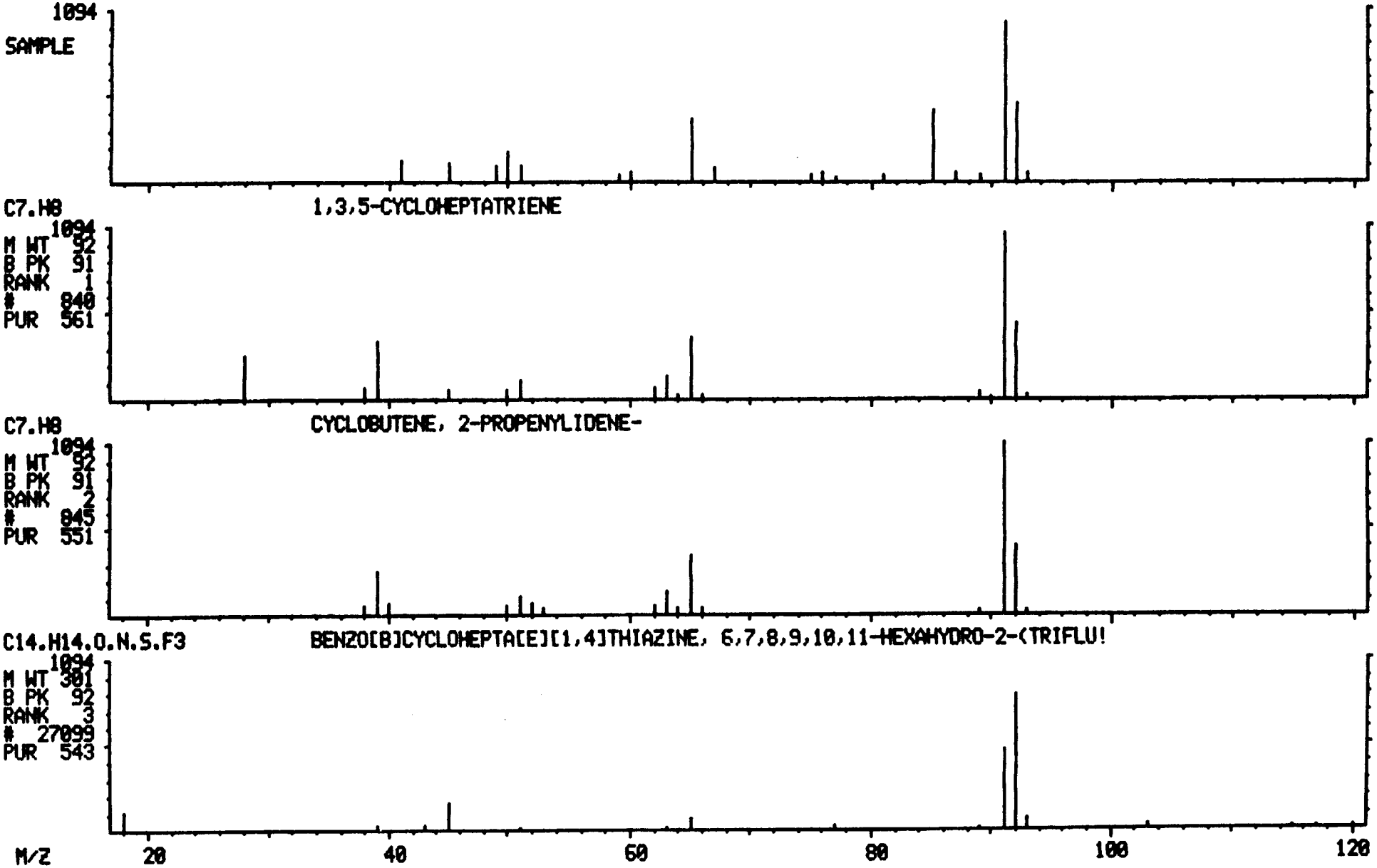
BASE M/Z: 91
RIC: 3435.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:29
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 269
CALI: EQ2600 # 2

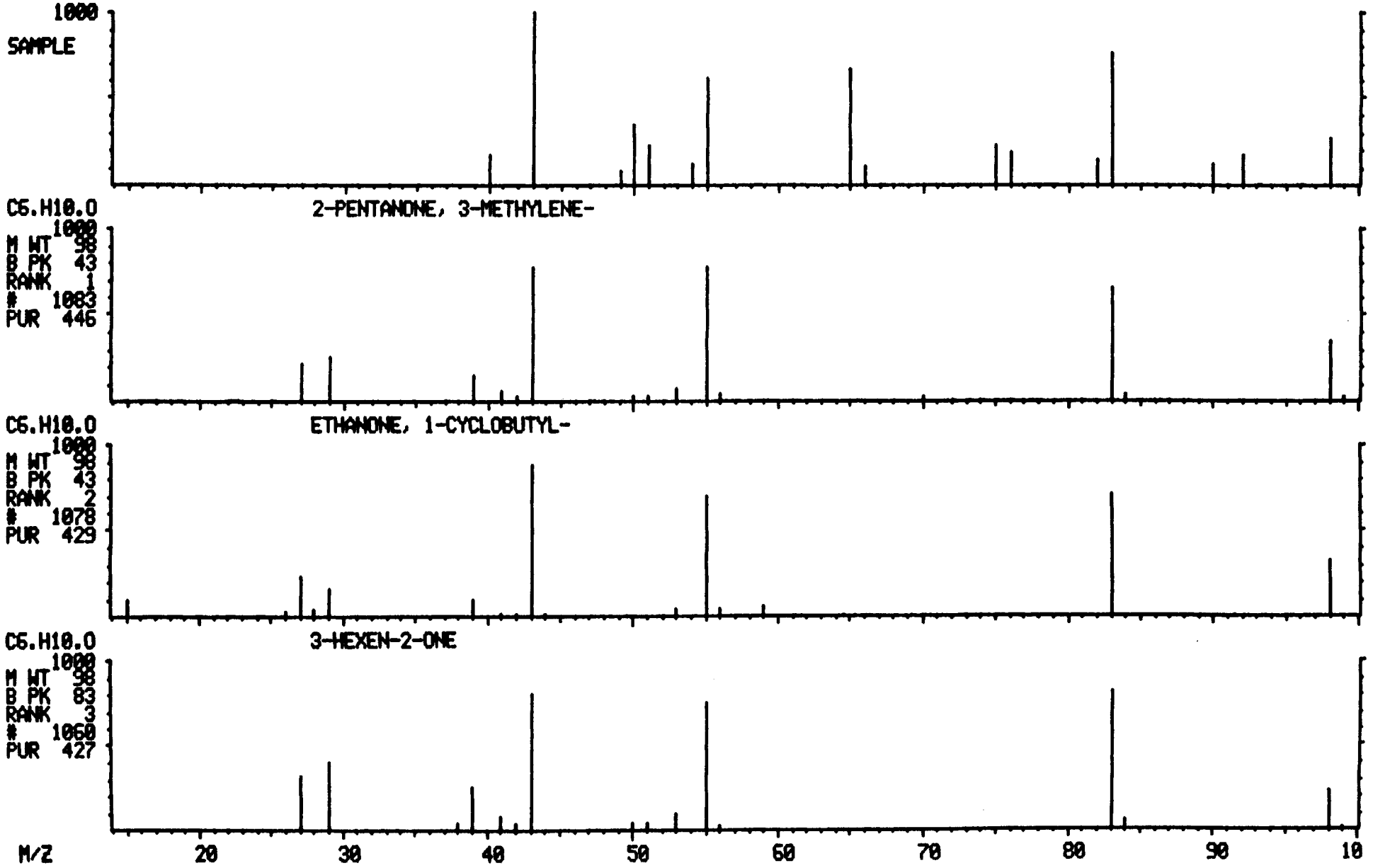
BASE M/Z: 91
RIC: 6719.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:34
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 274
CALI: EQ2600 # 2

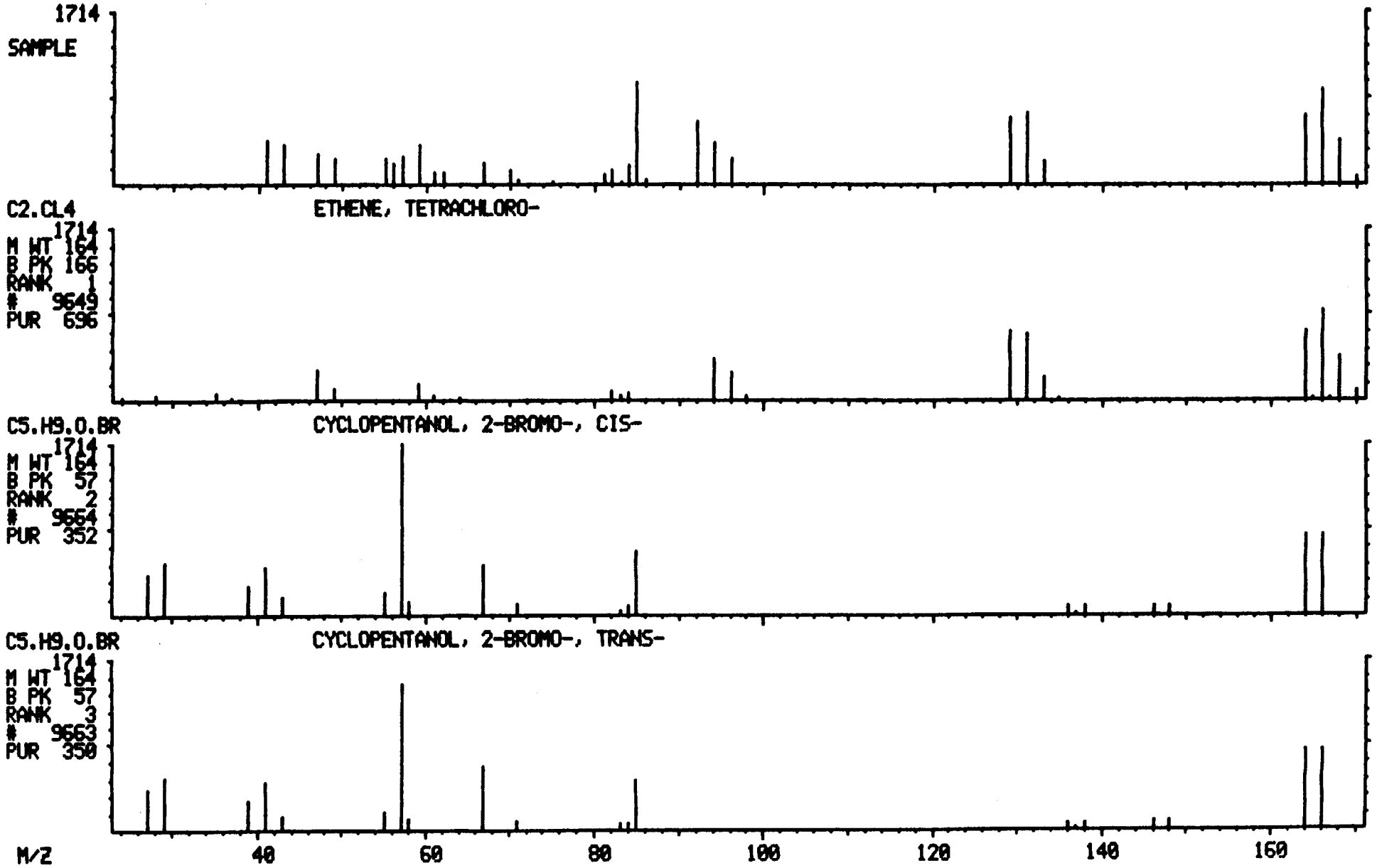
BASE M/Z: 43
RIC: 3659.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 4:44
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 284
CALI: EQ2600 # 2

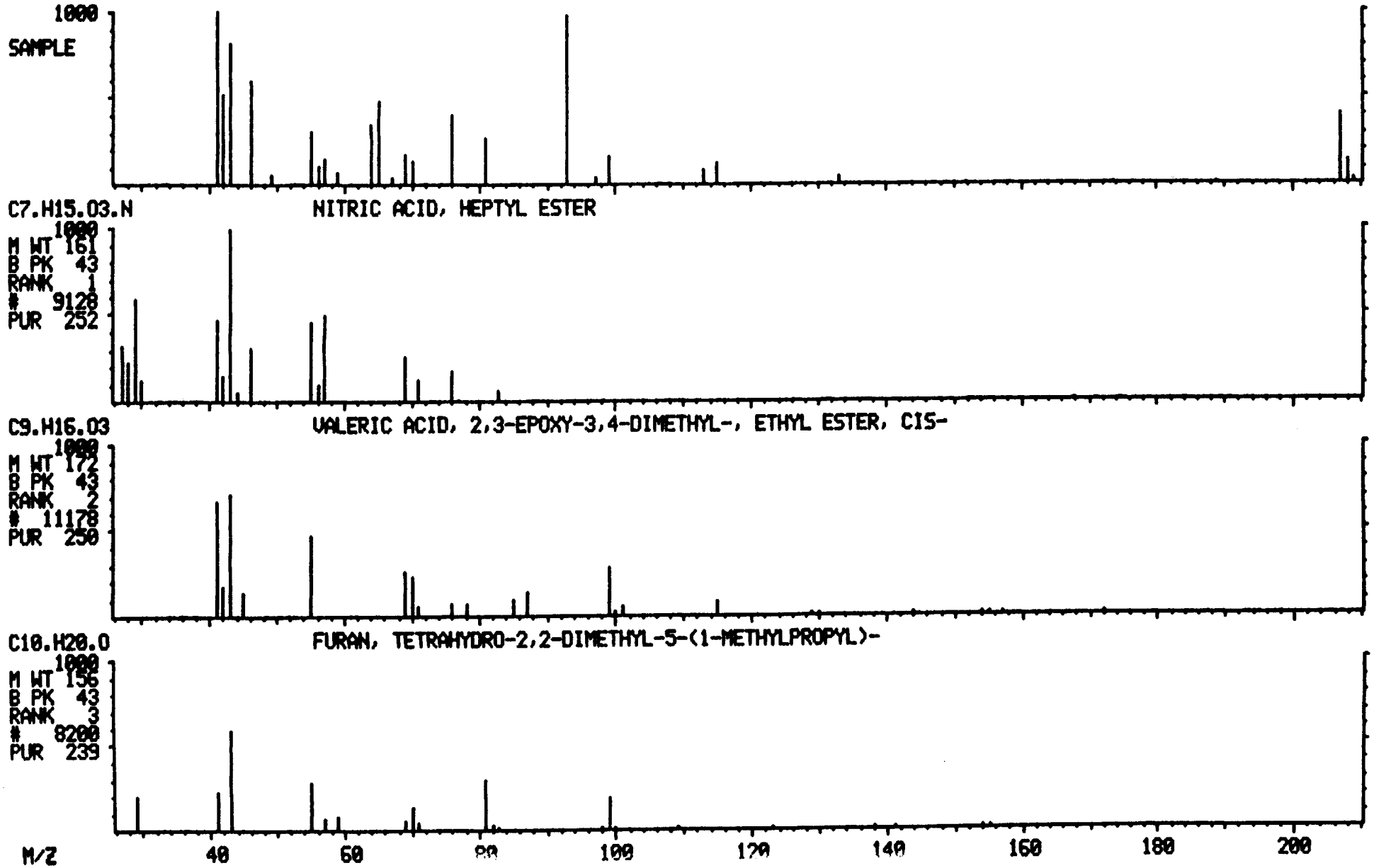
BASE M/Z: 85
RIC: 10527.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 5:13
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 313
CALI: EQ260D # 2

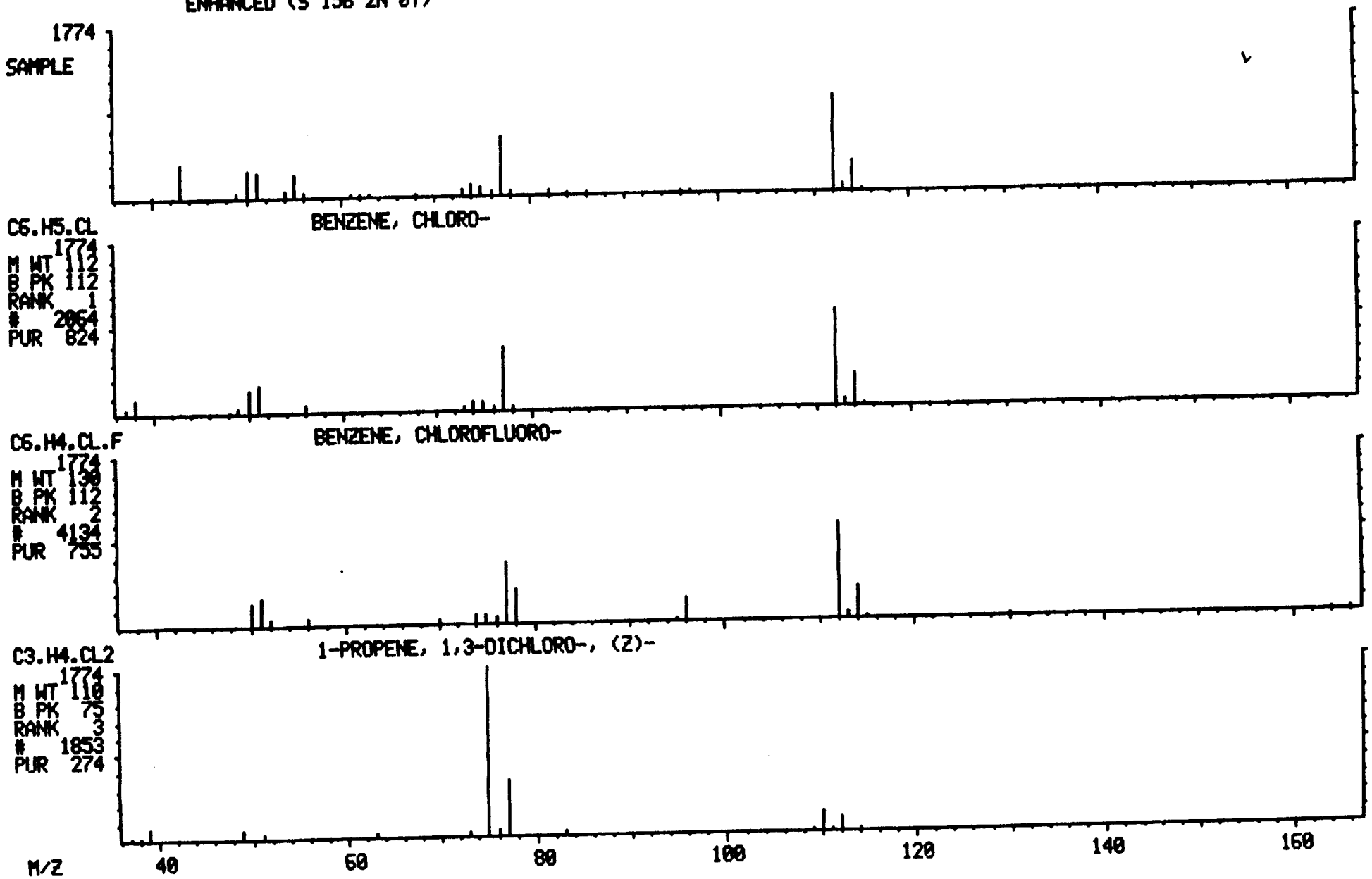
BASE M/Z: 41
RIC: 8087.



MID LIBRARY SEARCH
08/06/85 18:
SAMPLE: Y159,
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: FOCUS # 341

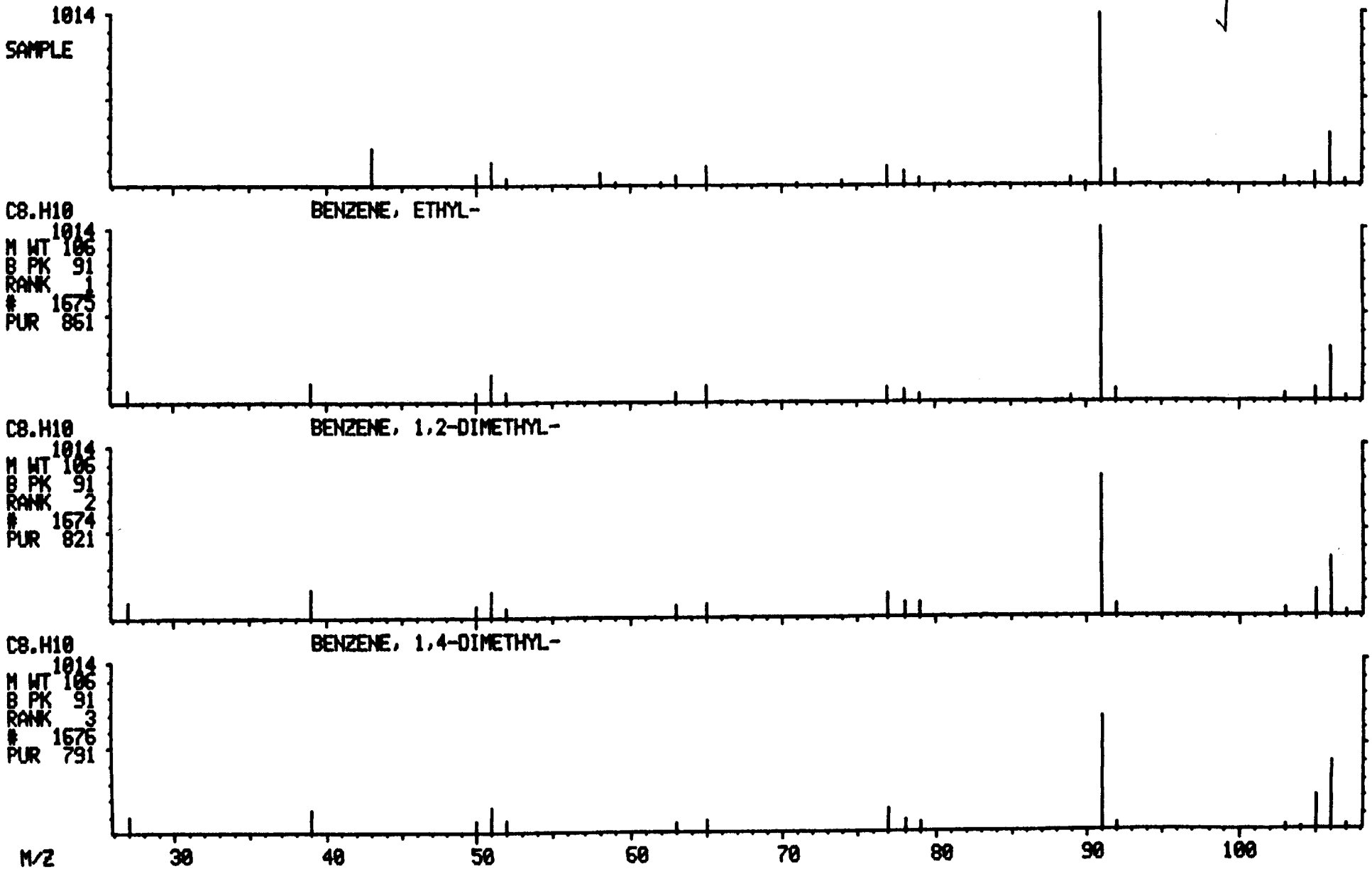
BASE M/Z: 112
RIC: 25119.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 6:06
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 366
CALI: EQ2600 # 2

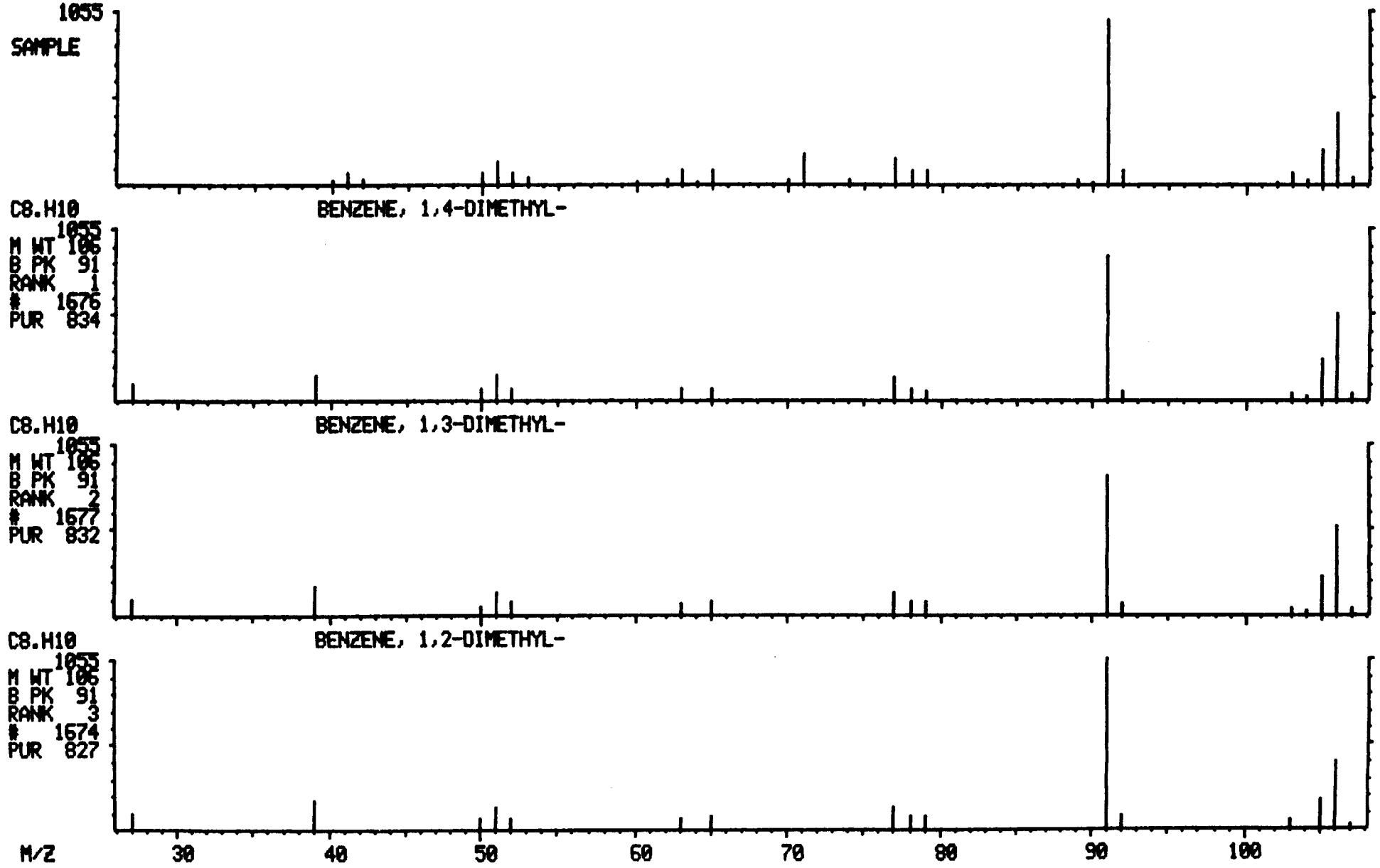
BASE M/Z: 91
RIC: 23167.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 6:19
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 379
CALI: EQ2600 # 2

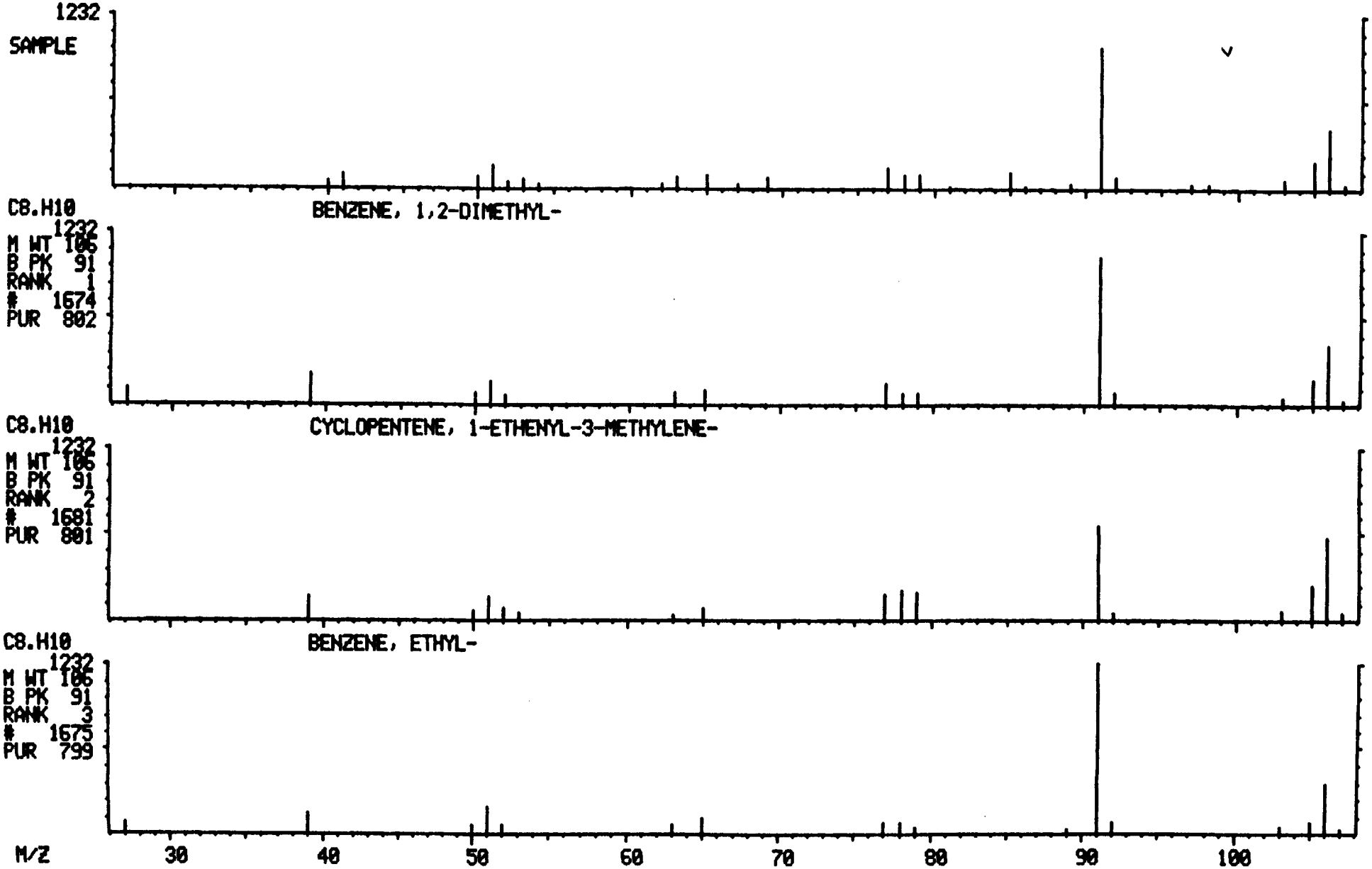
BASE M/Z: 91
RIC: 38719.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 6:54
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 414
CALI: EQ260D # 2

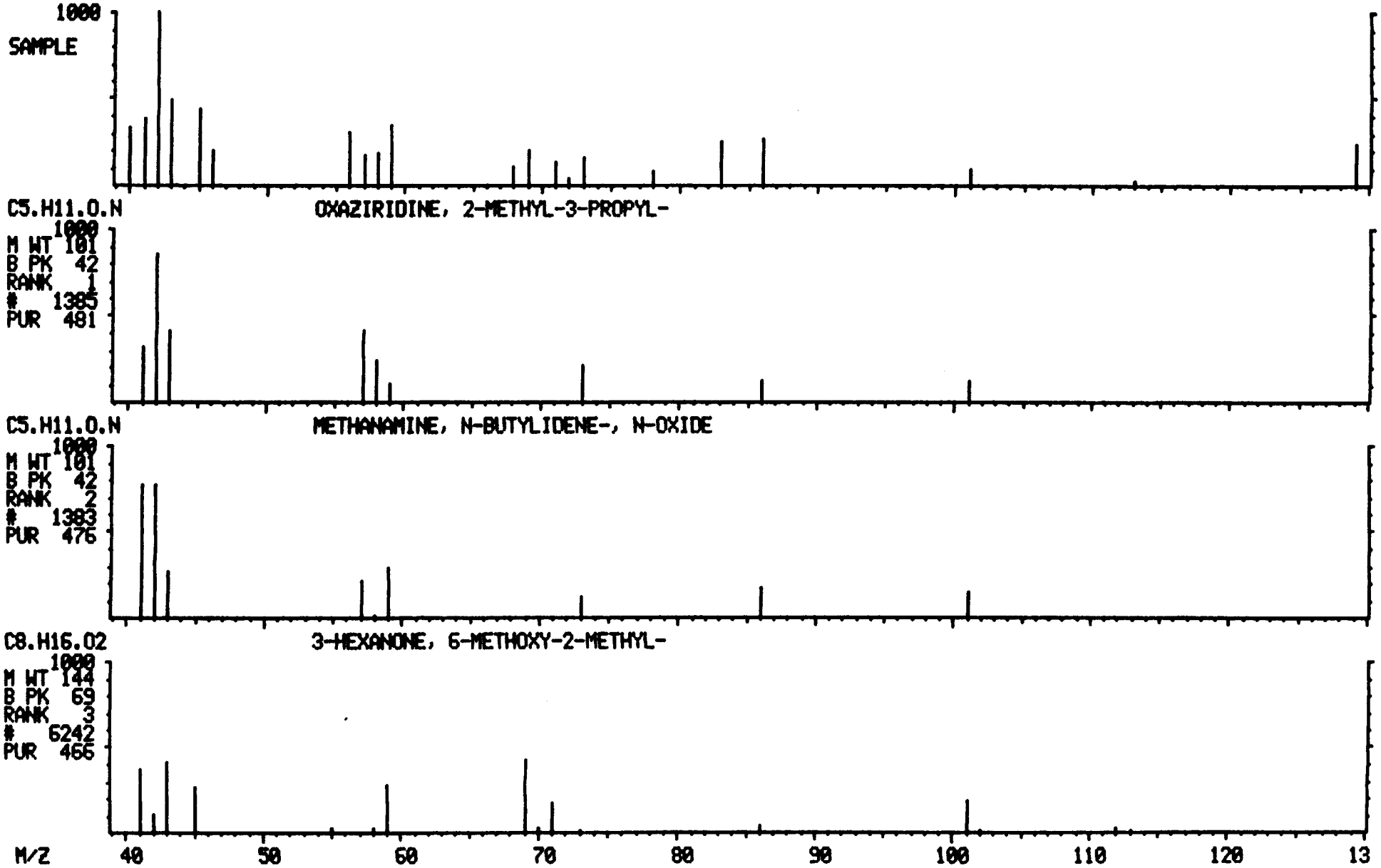
BASE M/Z: 91
RIC: 17439.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 7:27
SAMPLE: Y159, 1 TO 10 OIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 447
CALI: EQ2600 # 2

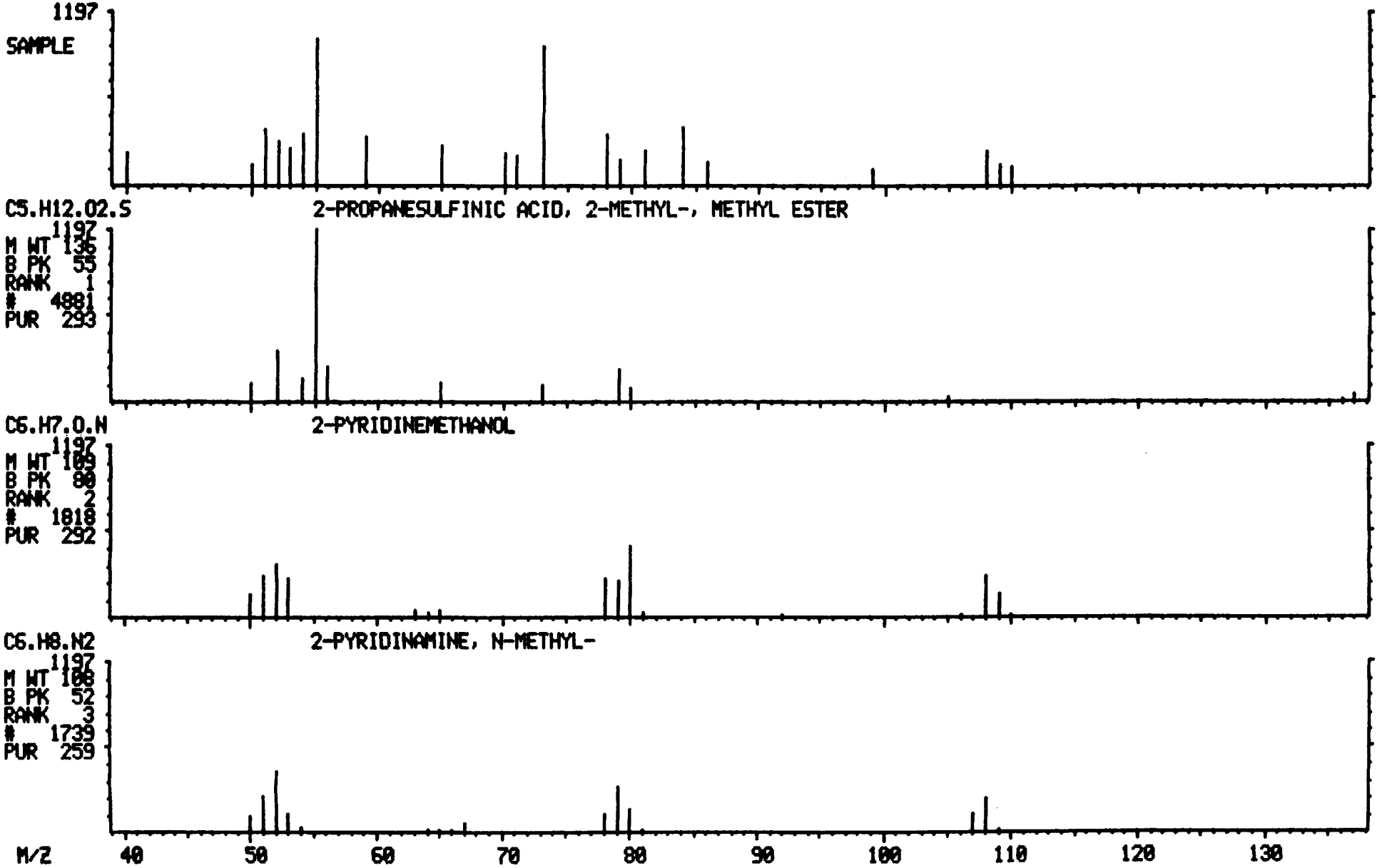
BASE M/Z: 42
RIC: 5919.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 7:31
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 451
CALI: EQ260D # 2

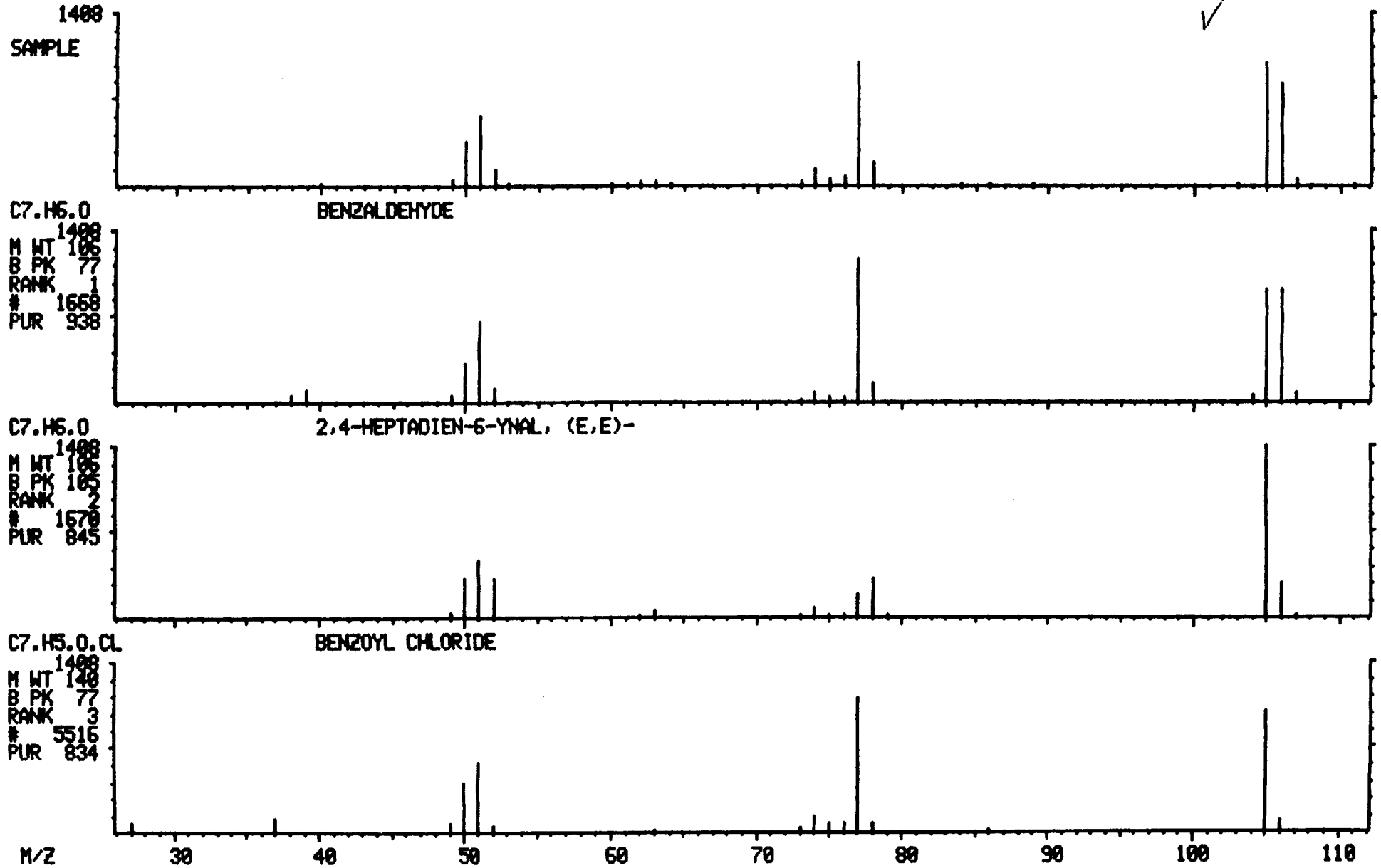
BASE M/Z: 55
RIC: 4679.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 8:34
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 514
CALI: EQ260D # 2

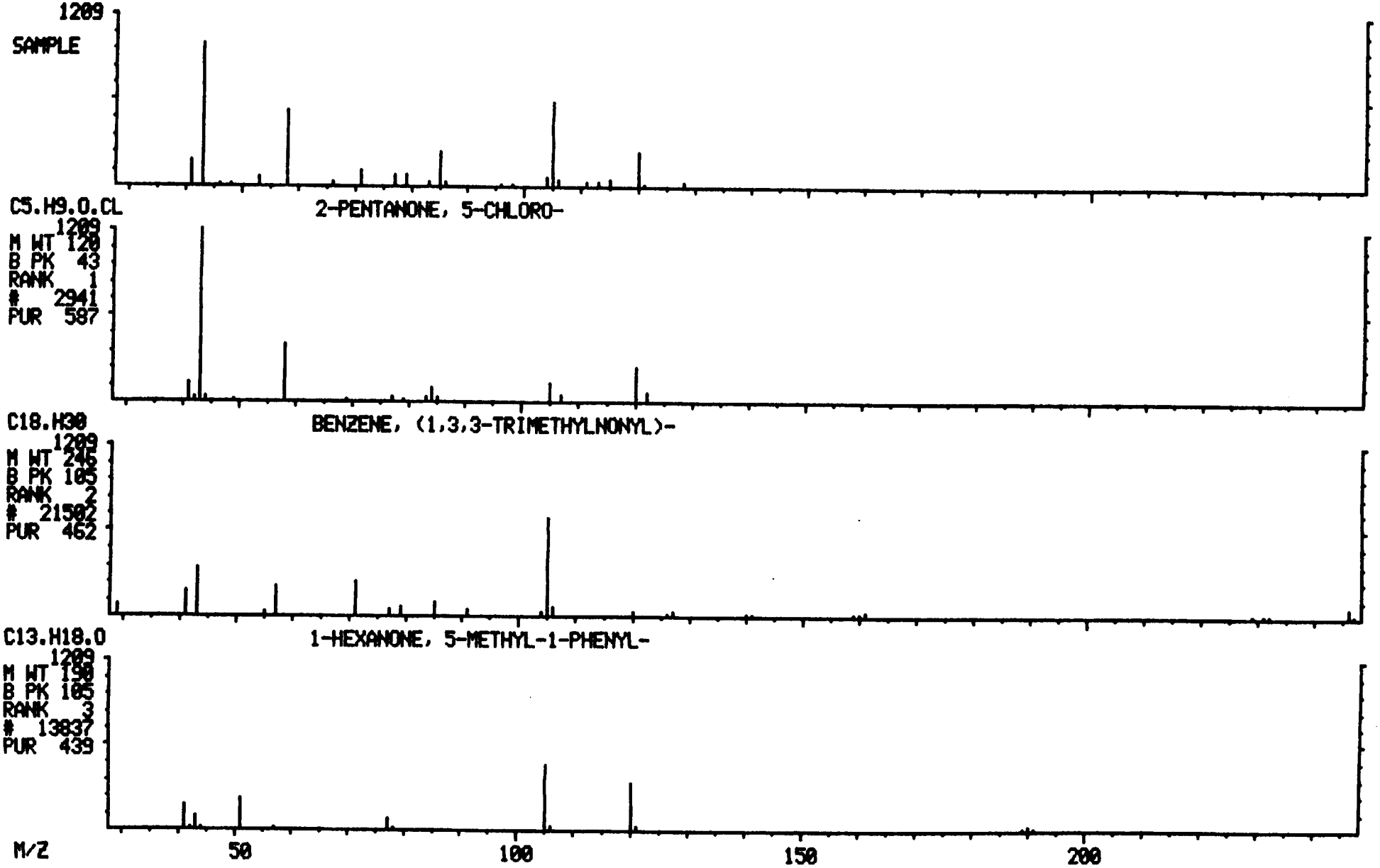
BASE M/Z: 77
RIC: 146175.

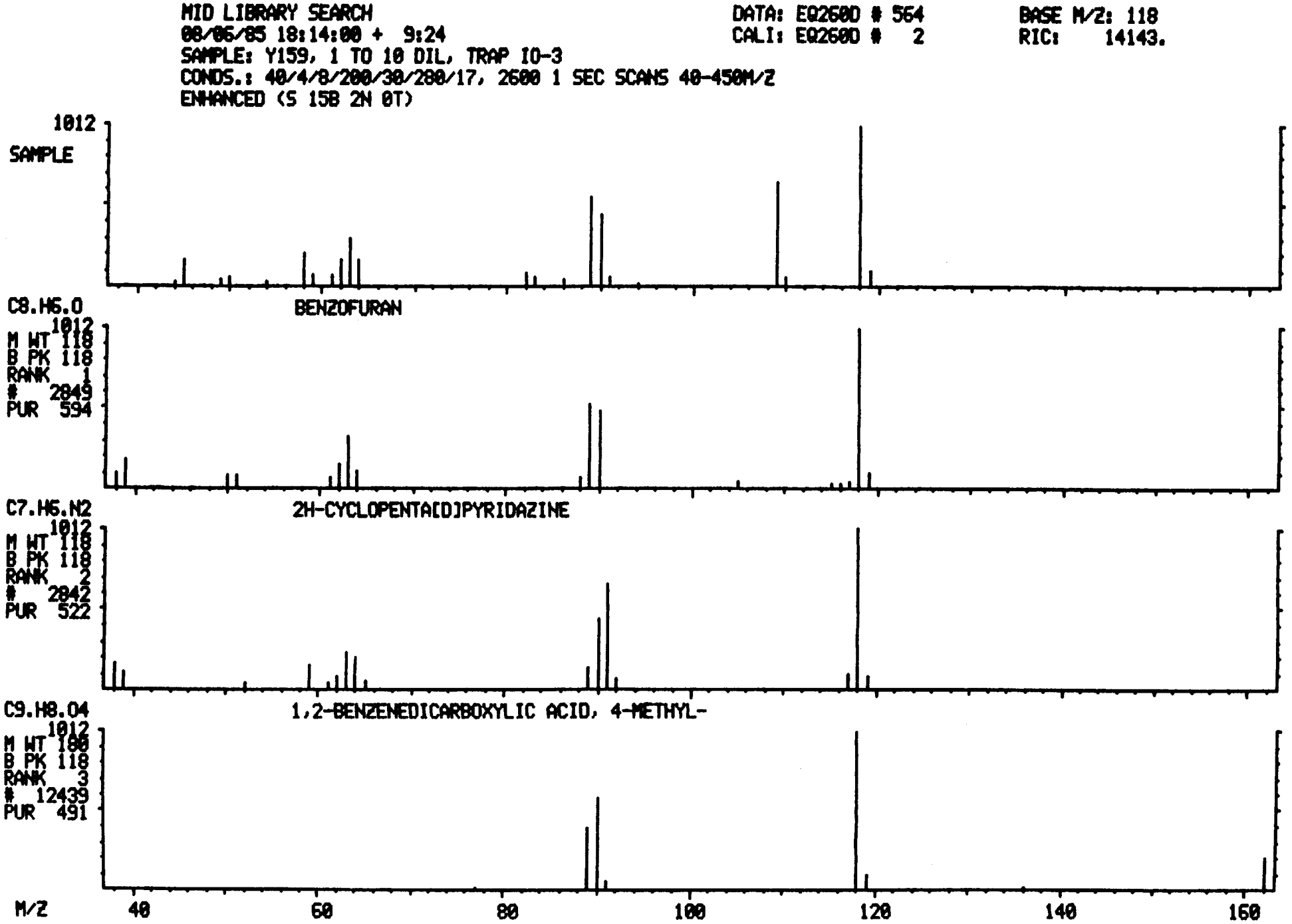


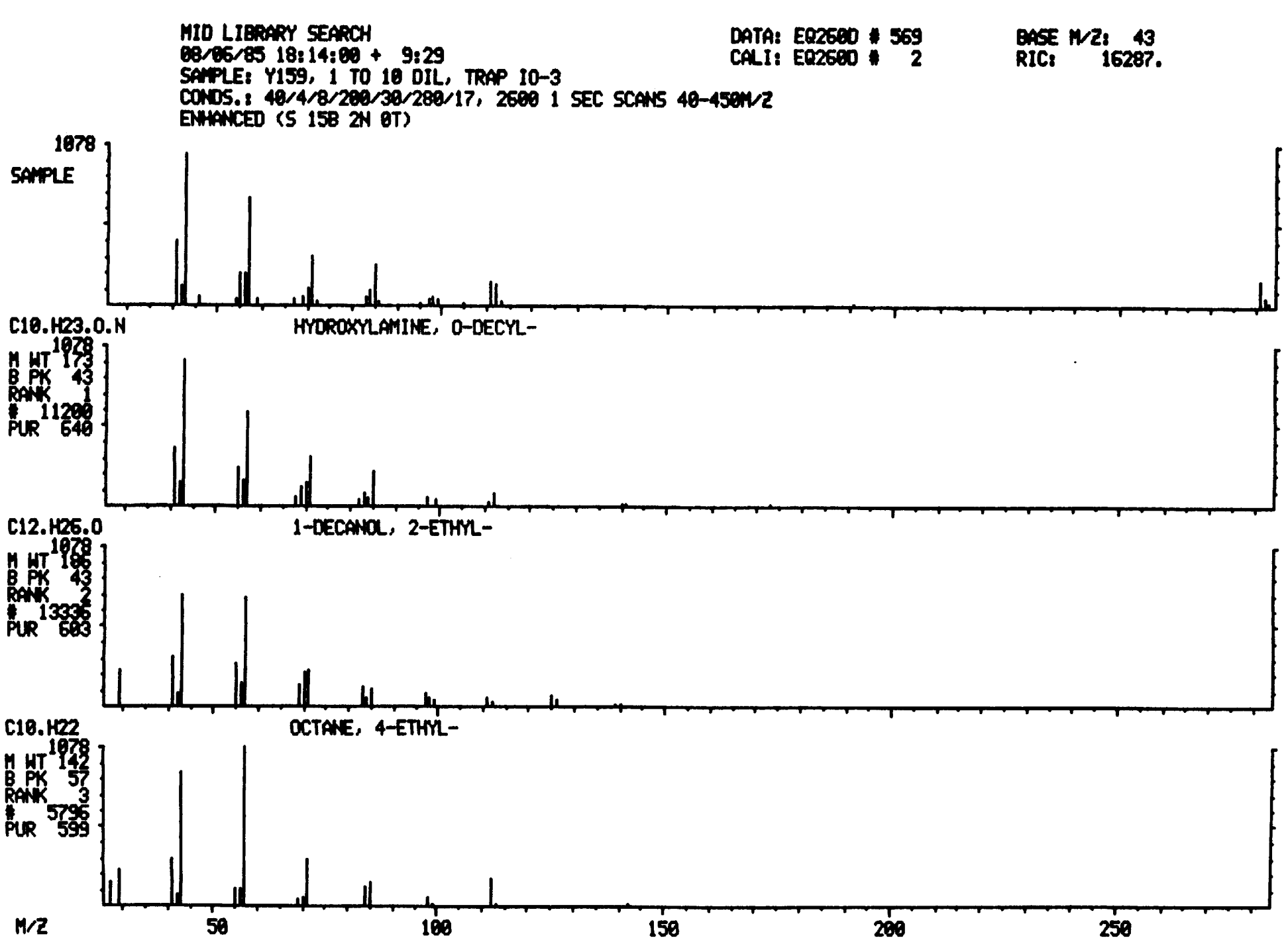
MID LIBRARY SEARCH
08/06/85 18:14:00 + 9:18
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 558
CALI: EQ260D # 2

BASE M/Z: 43
RIC: 8911.



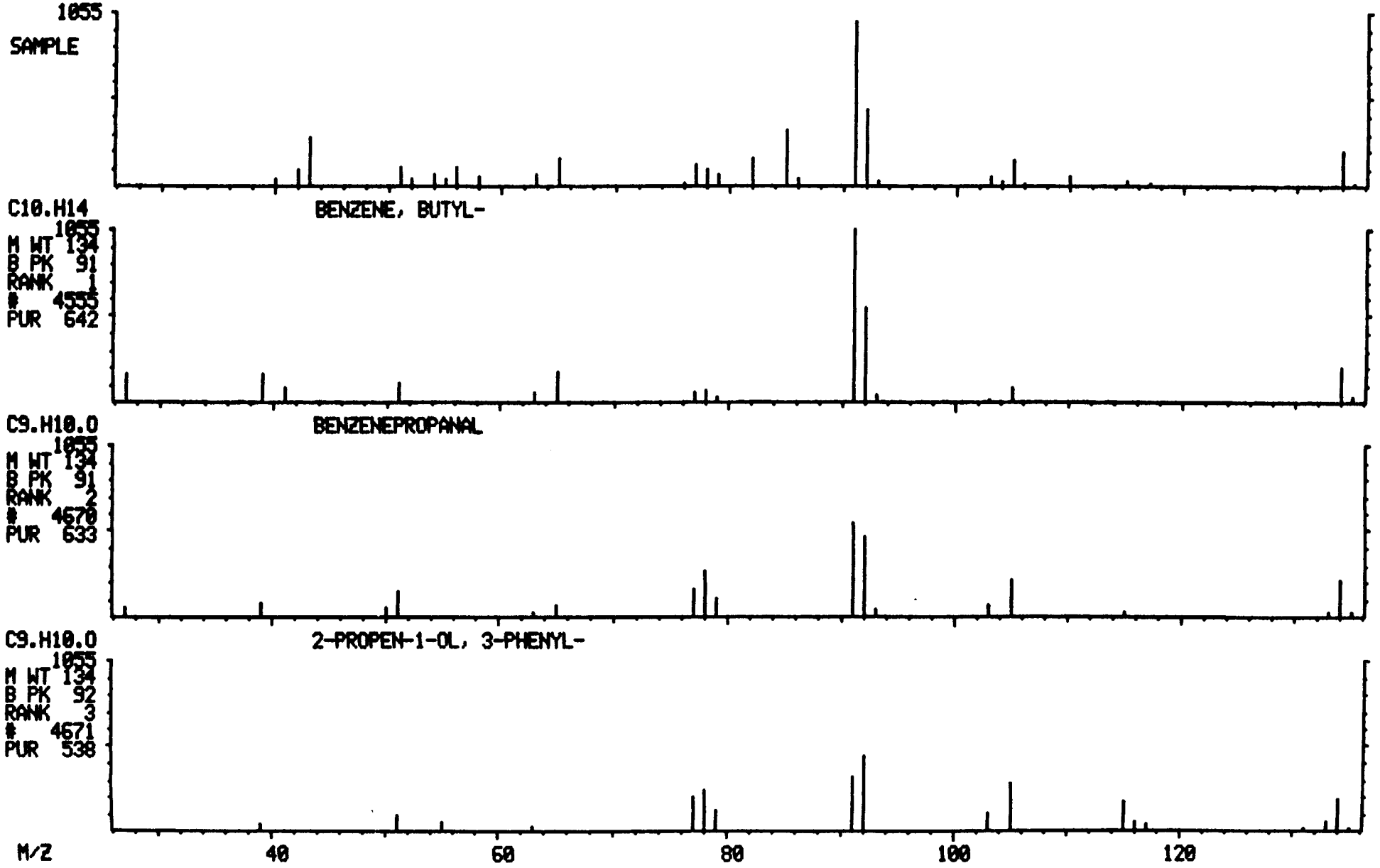

MID LIBRARY SEARCH
08/06/85 18:14:00 + 9:24
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ2600 # 564
CALI: EQ2600 # 2
BASE M/Z: 118
RIC: 14143.
1012
SAMPLE
C8.H6.O
BENZOFURAN
M WT 118
B PK 118
RANK 1
2849
PUR 594
C7.H6.N2
2H-CYCLOPENTA[D]PYRIDAZINE
M WT 118
B PK 118
RANK 2
2842
PUR 522
C9.H8.O4
1,2-BENZENEDICARBOXYLIC ACID, 4-METHYL-
M WT 180
B PK 118
RANK 3
12439
PUR 491
M/Z
40
60
80
100
120
140
160


MID LIBRARY SEARCH
08/06/85 18:14:00 + 9:29
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ2600 # 569
CALI: EQ2600 # 2
BASE M/Z: 43
RIC: 16287.
1078
SAMPLE
C10.H23.O.N
HYDROXYLAMINE, O-DECYL-
M WT 173
B PK 43
RANK 1
11200
PUR 640
C12.H26.O
1-DECANOL, 2-ETHYL-
M WT 186
B PK 43
RANK 2
13336
PUR 603
C10.H22
OCTANE, 4-ETHYL-
M WT 142
B PK 57
RANK 3
5796
PUR 599
M/Z
50
100
150
200
250

MID LIBRARY SEARCH
08/06/85 18:14:00 + 10:43
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 643
CALI: EQ2600 # 2

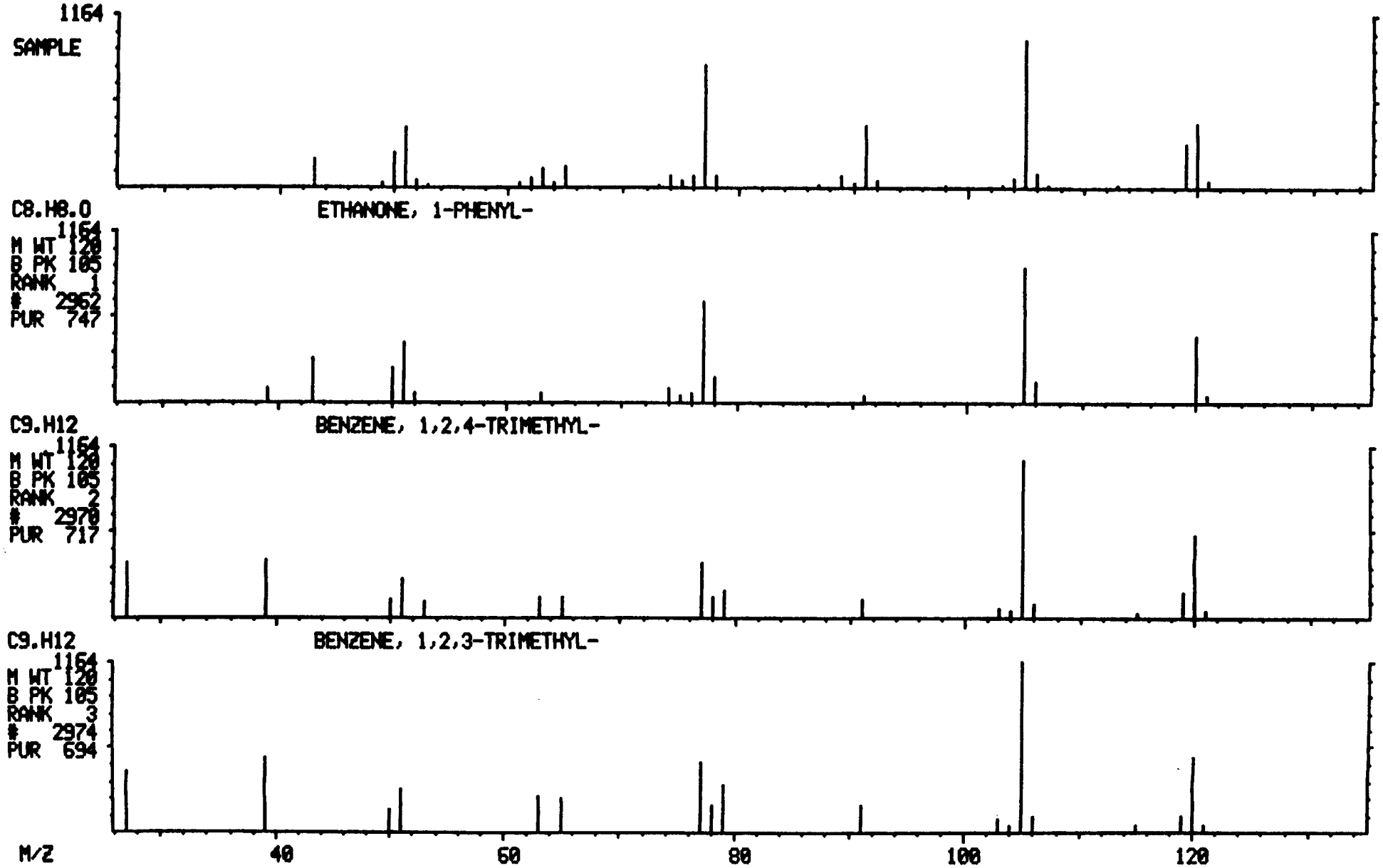
BASE M/Z: 91
RIC: 15647.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 10:58
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 658
CALI: EQ2600 # 2

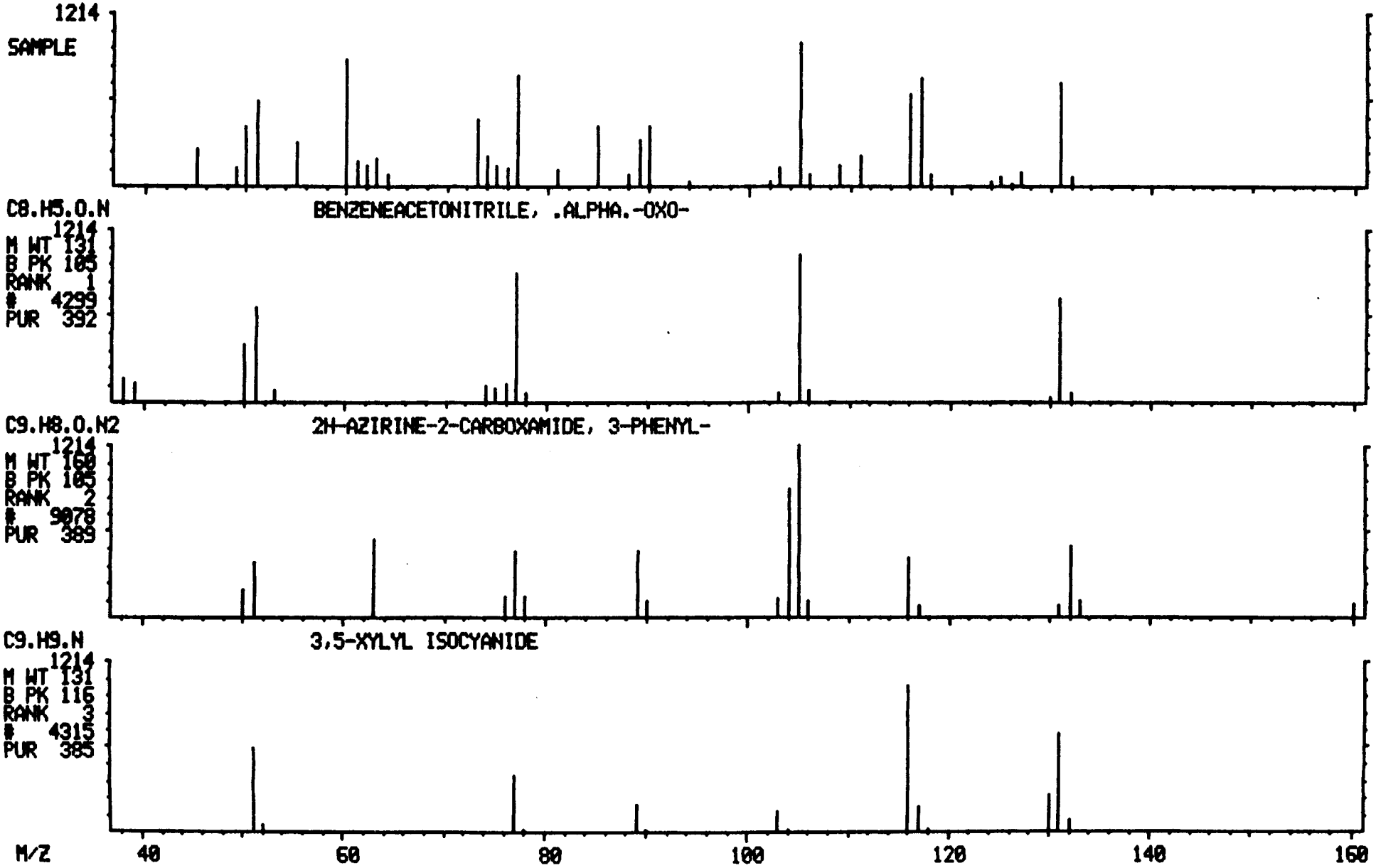
BASE M/Z: 105
RIC: 66303.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 11:28
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 688
CALI: EQ2600 # 2

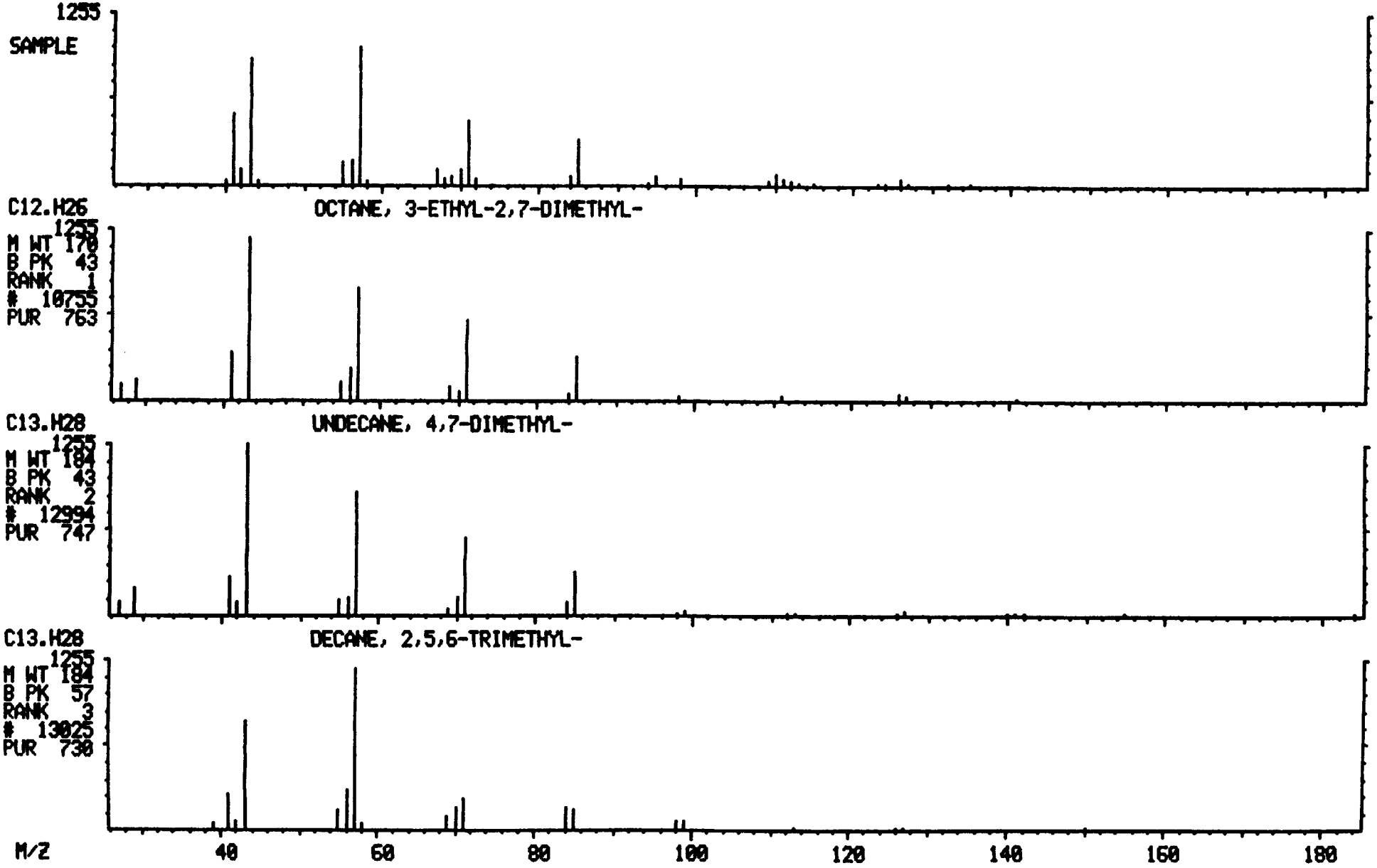
BASE M/Z: 105
RIC: 14303.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 11:39
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 699
CALI: EQ2600 # 2

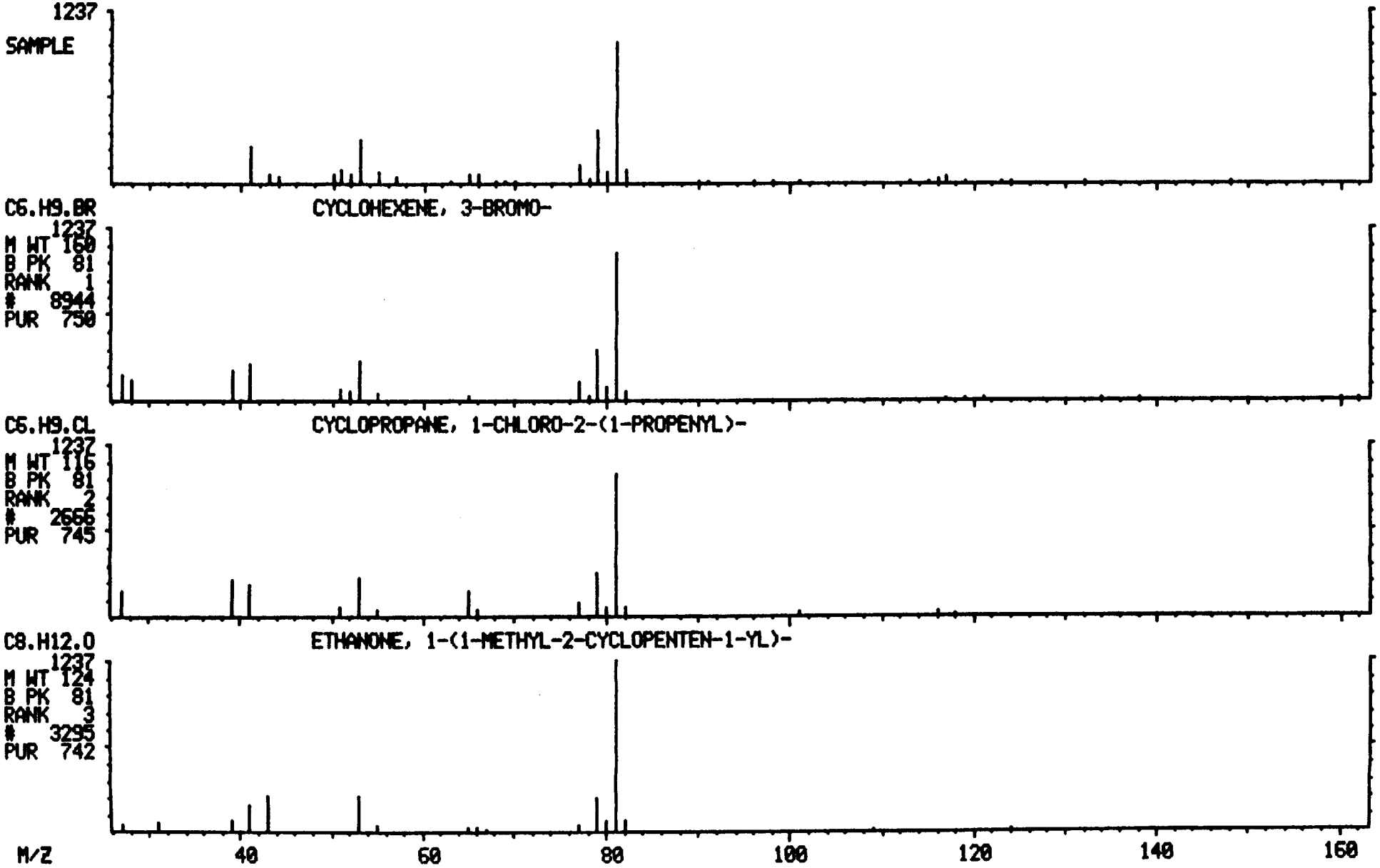
BASE M/Z: 57
RIC: 19551.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 11:45
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 705
CALI: EQ2600 # 2

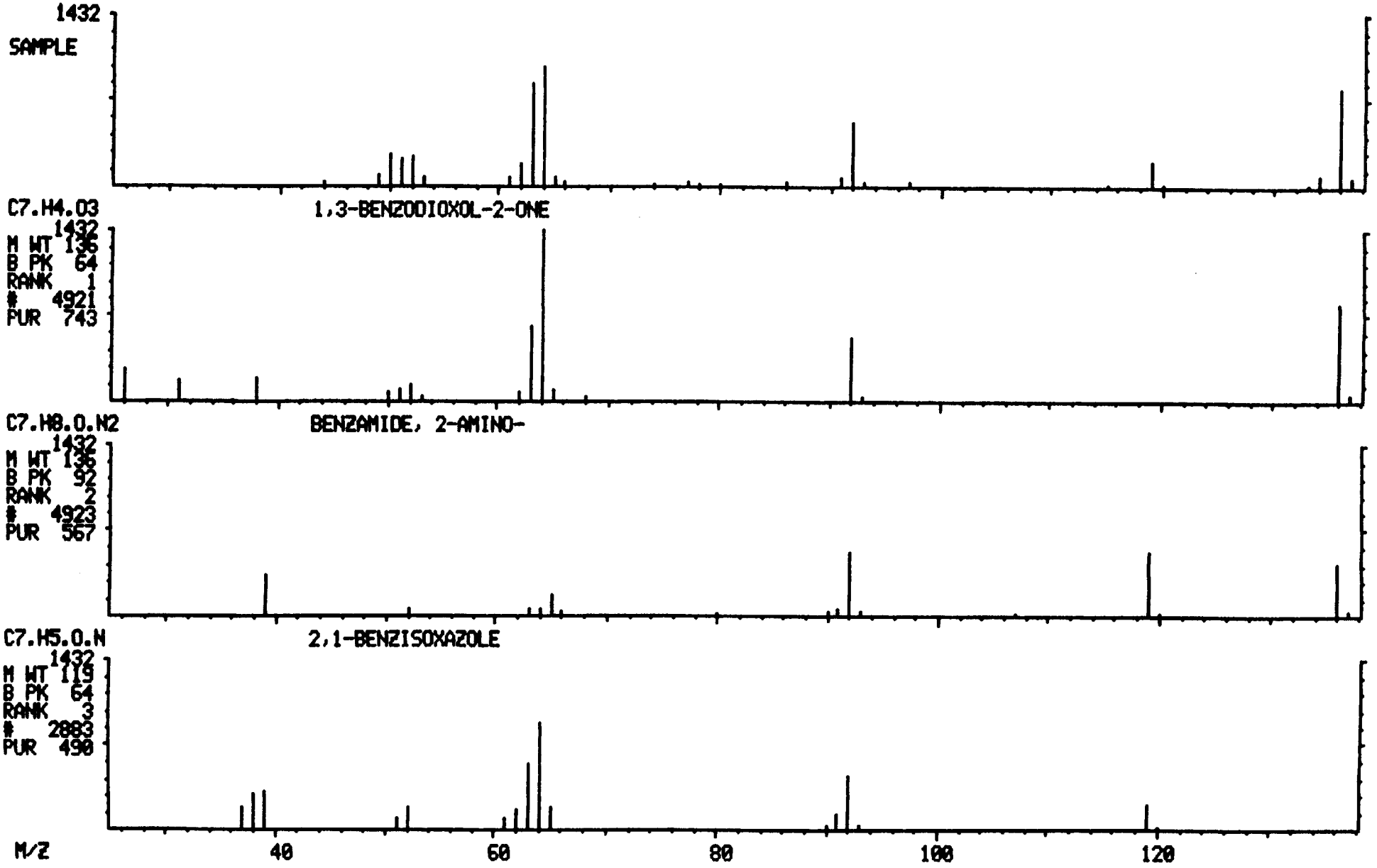
BASE M/Z: 81
RIC: 45759.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 12:04
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 724
CALI: EQ260D # 2

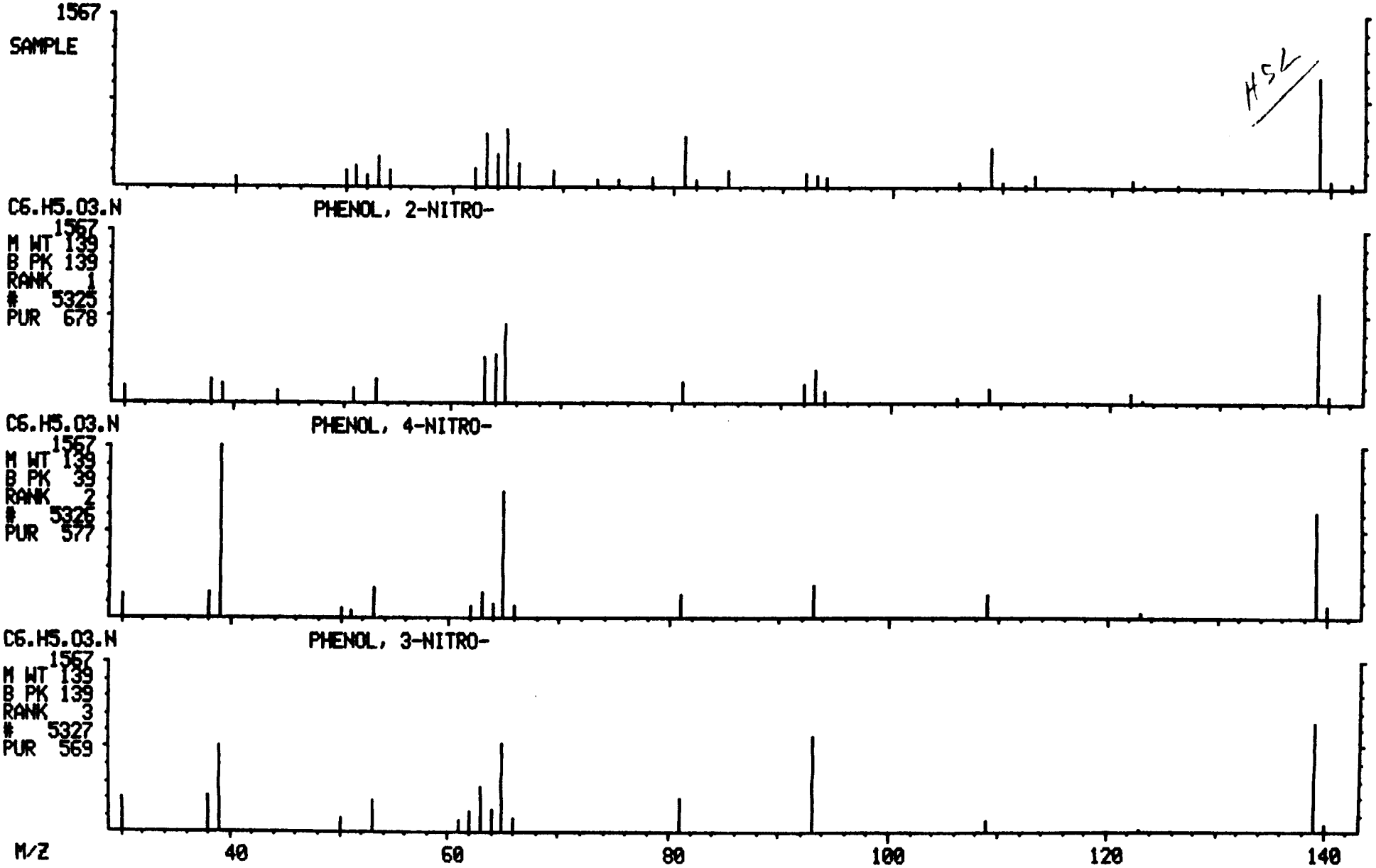
BASE M/Z: 64
RIC: 18847.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 12:19
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 739
CALI: EQ260D # 2

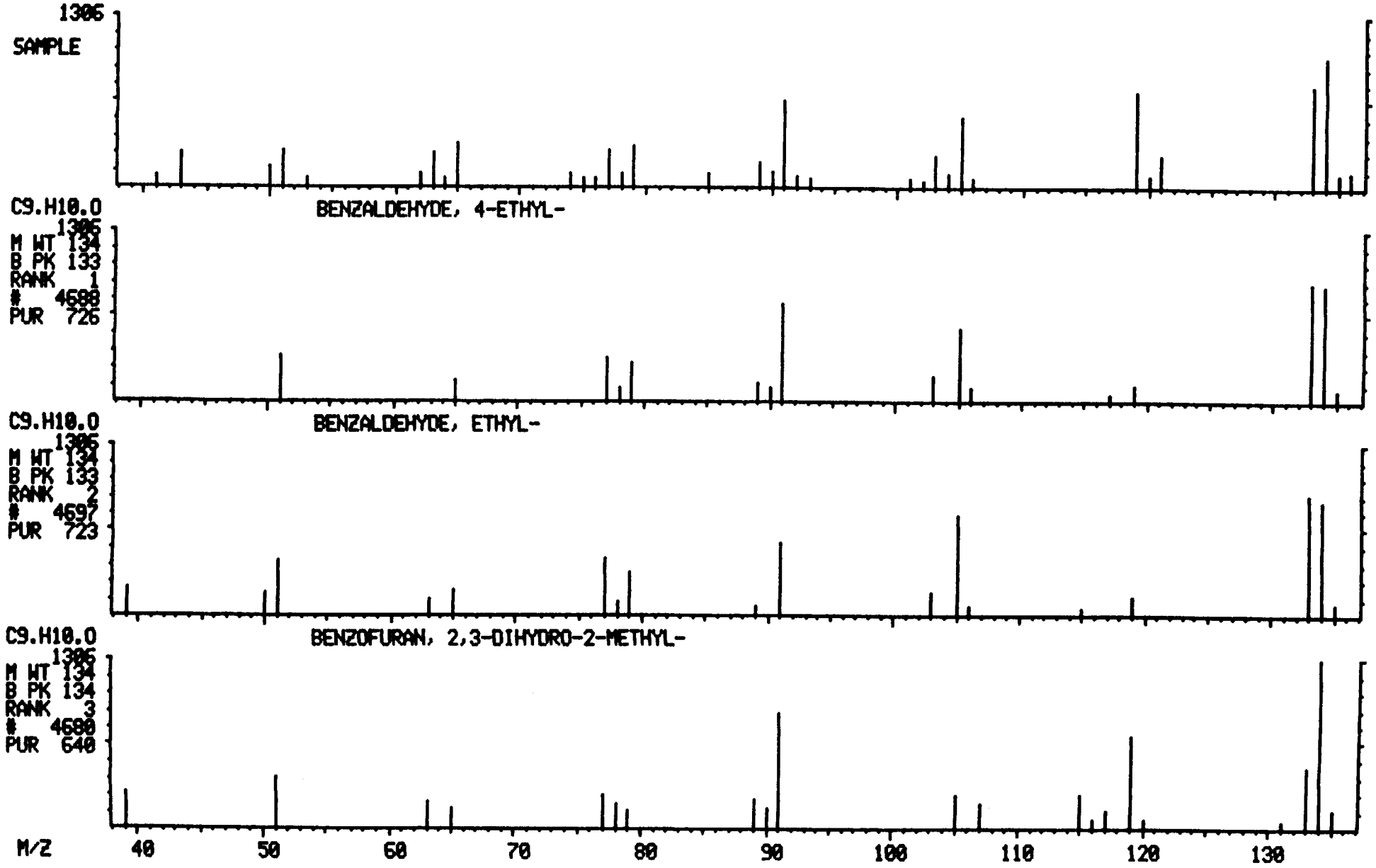
BASE M/Z: 139
RIC: 27071.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 12:59
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 779
CALI: EQ2600 # 2

BASE M/Z: 134
RIC: 25055.

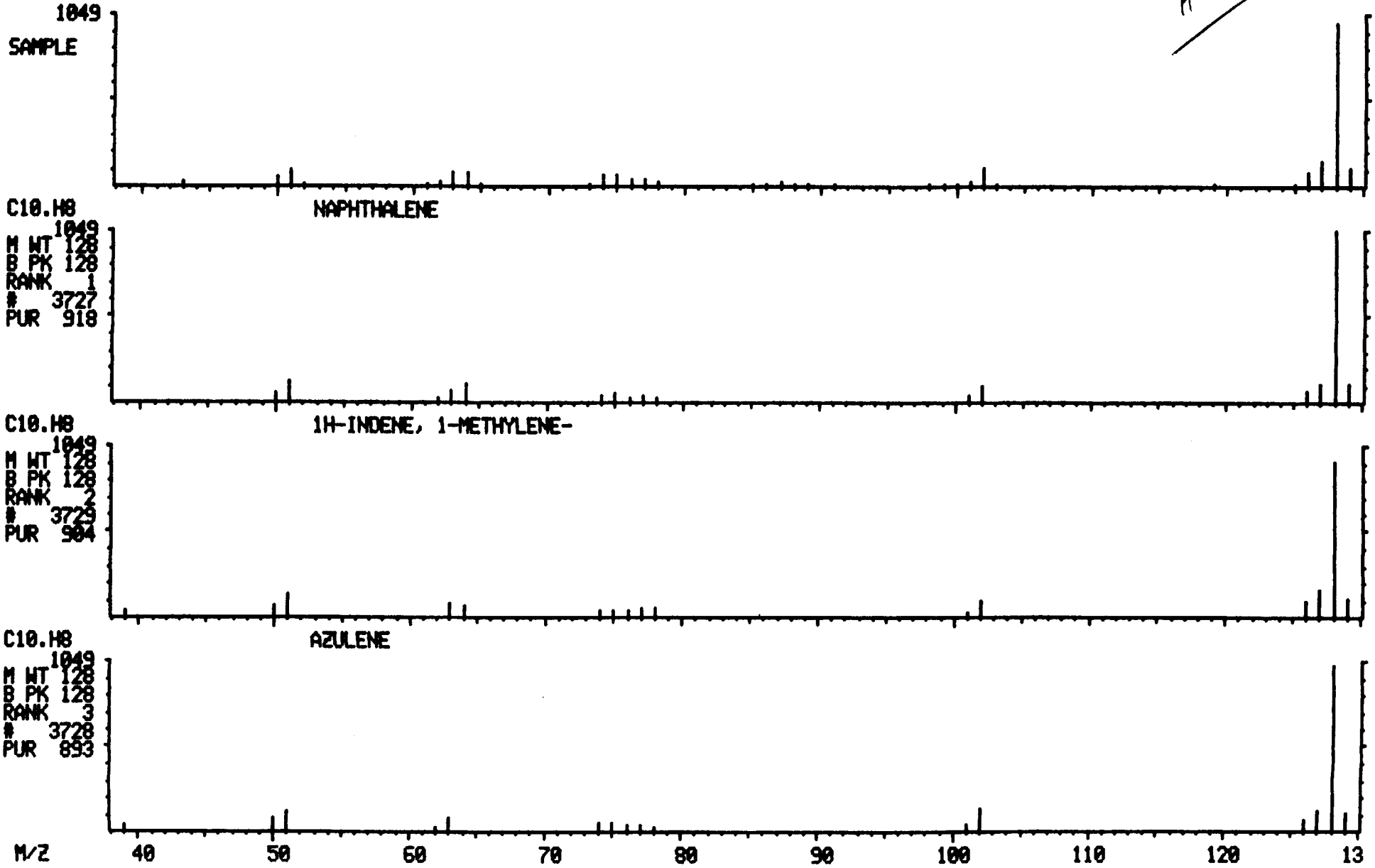


MID LIBRARY SEARCH
08/06/85 18:14:00 + 13:24
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 804
CALI: EQ2600 # 2

BASE M/Z: 128
RIC: 196507.

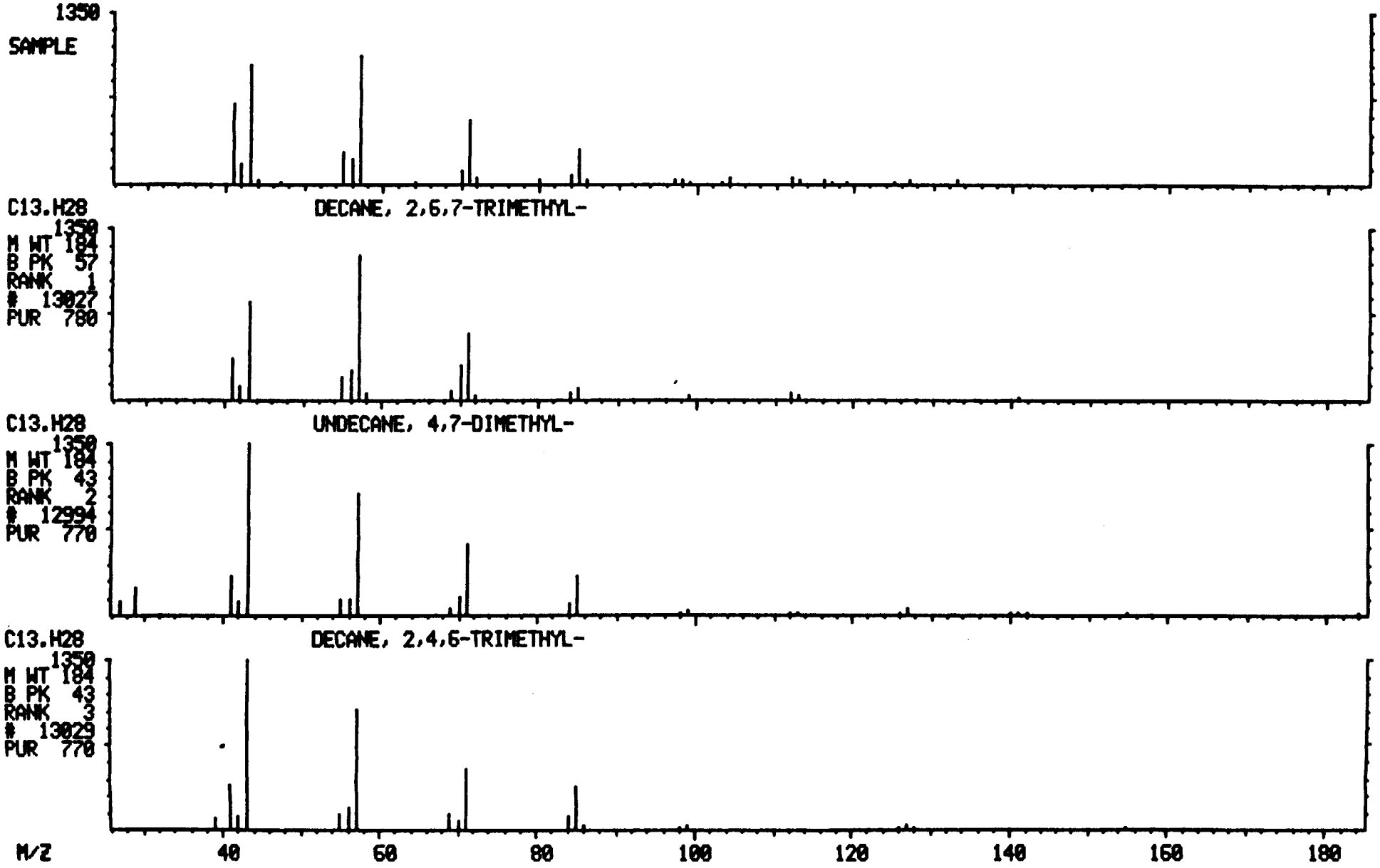
HSL



MID LIBRARY SEARCH
08/06/85 18:14:00 + 13:38
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 818
CALI: EQ260D # 2

BASE M/Z: 57
RIC: 17343.

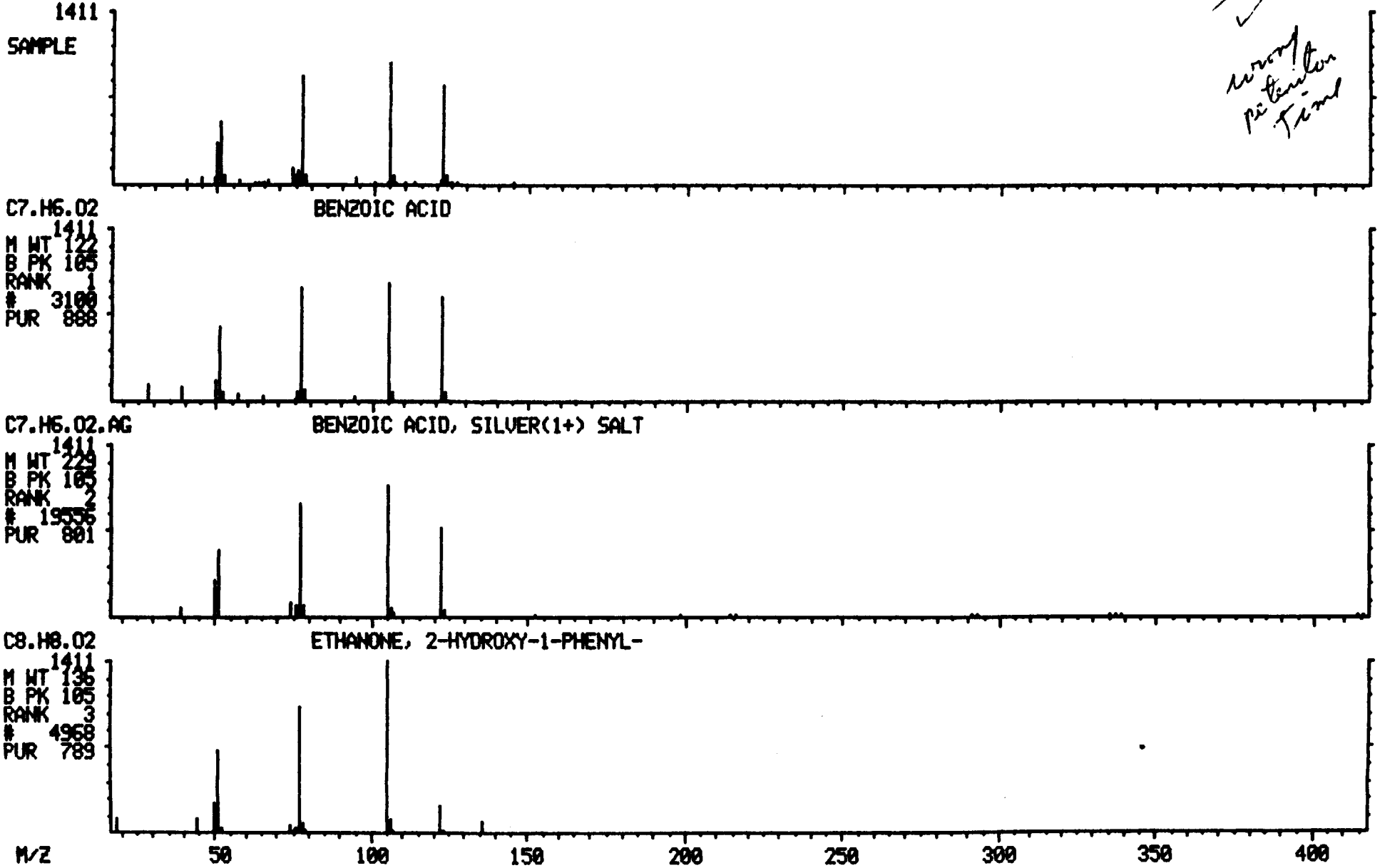


MID LIBRARY SEARCH
08/06/85 18:14:00 + 13:44
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 824
CALI: EQ260D # 2

BASE M/Z: 105
RIC: 51455.

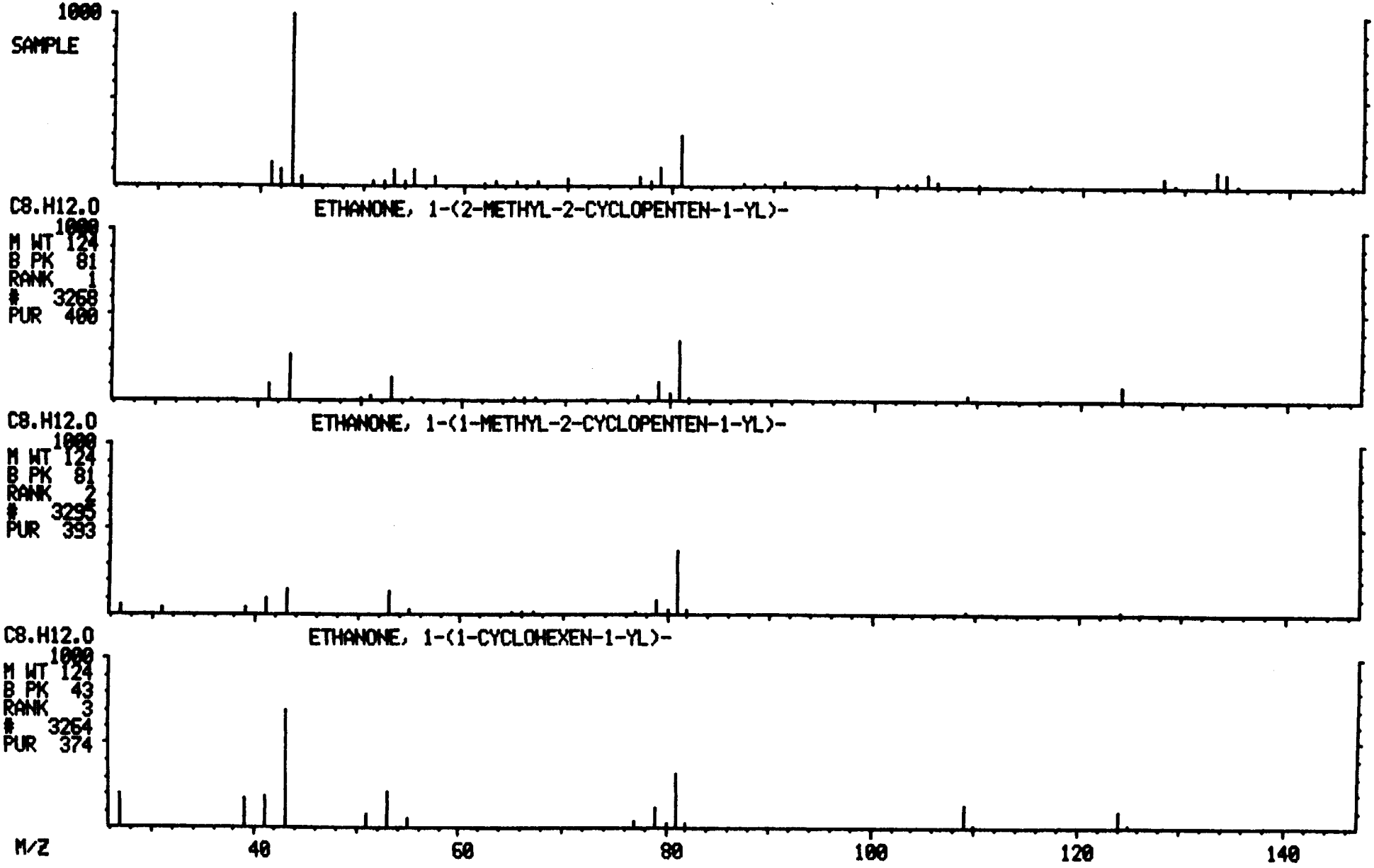
HSL-



MID LIBRARY SEARCH
08/06/85 18:14:00 + 14:01
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 841
CALI: EQ2600 # 2

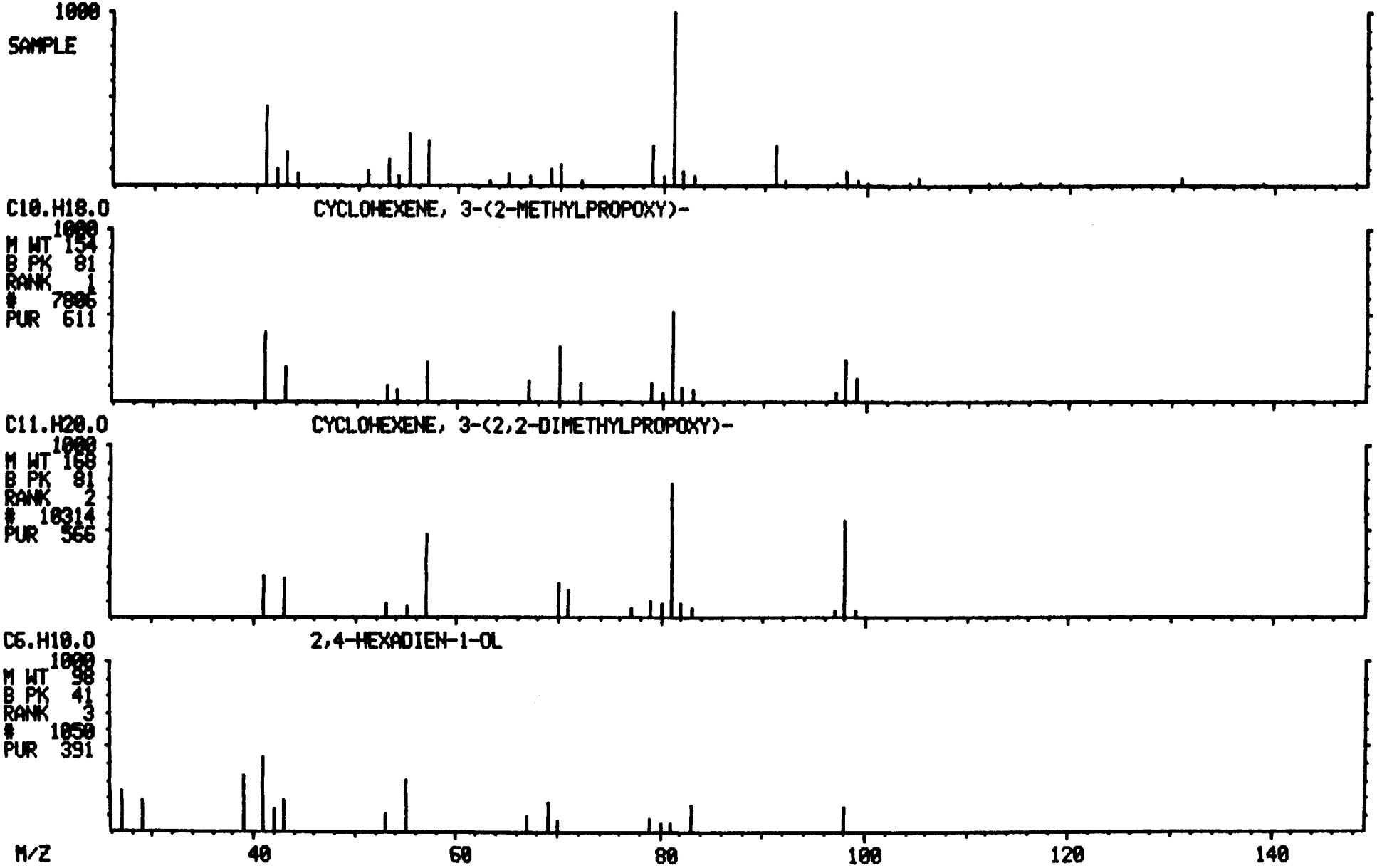
BASE M/Z: 43
RIC: 29567.

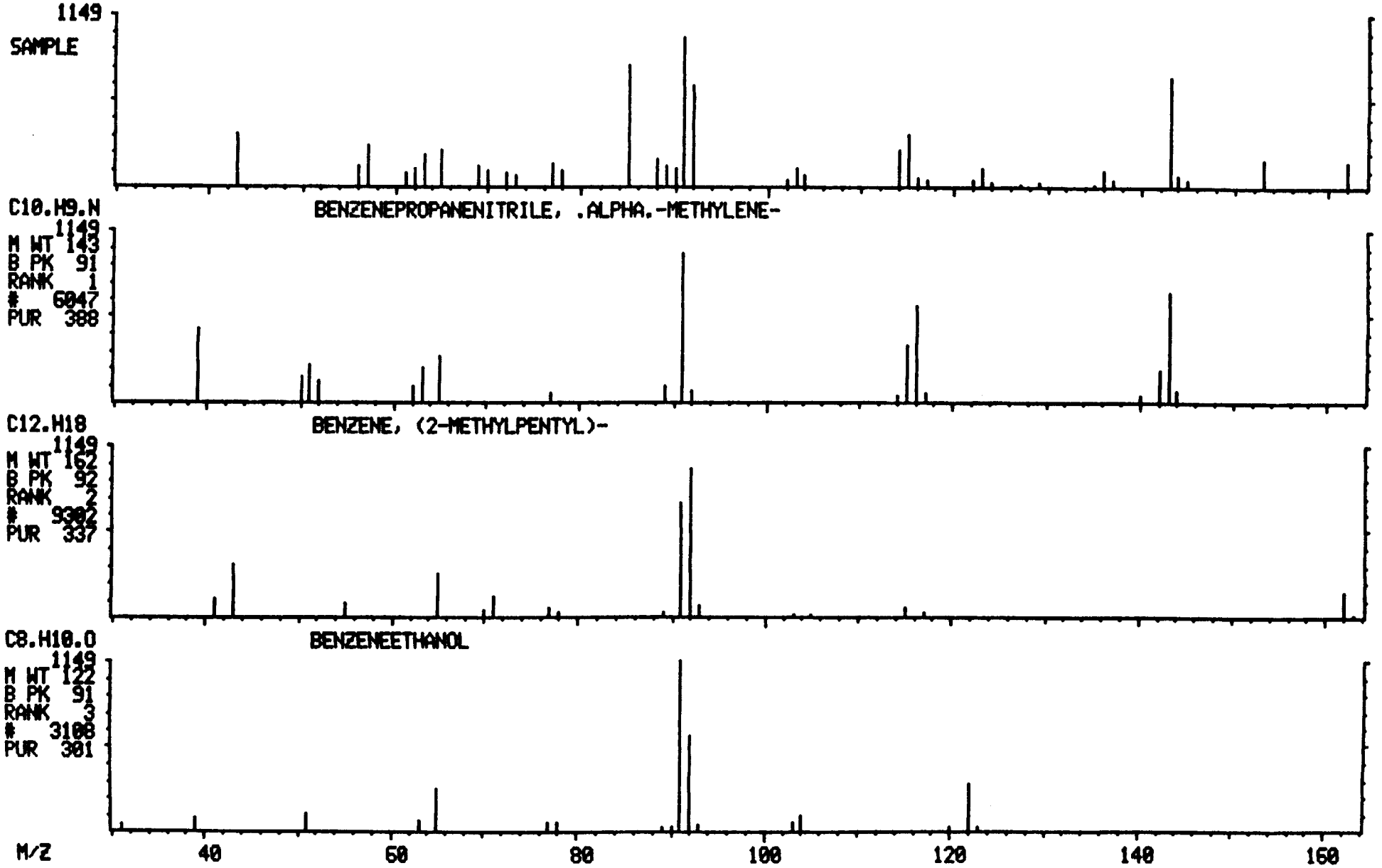


MID LIBRARY SEARCH
08/06/85 18:14:00 + 14:29
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 869
CALI: EQ260D # 2

BASE M/Z: 81
RIC: 36671.

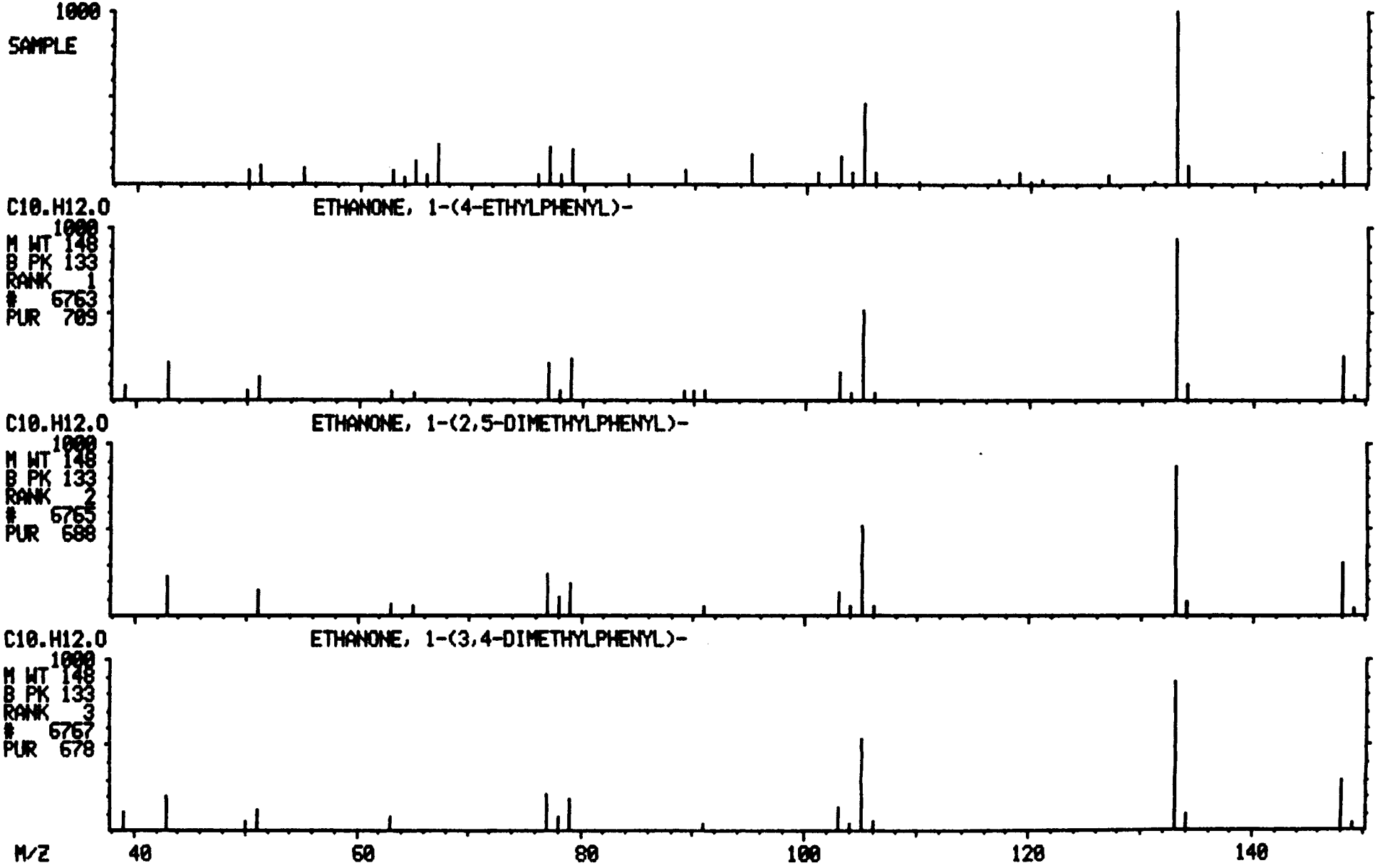



MID LIBRARY SEARCH
08/06/85 18:14:00 + 14:49
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ2600 # 889
CALI: EQ2600 # 2
BASE M/Z: 91
RIC: 13967.
1149
SAMPLE
C10.H9.N
BENZENEPROPANENITRILE, .ALPHA.-METHYLENE-
1149
M WT 143
B PK 91
RANK 1
6047
PUR 388
C12.H18
BENZENE, (2-METHYLPENTYL)-
1149
M WT 162
B PK 92
RANK 2
9382
PUR 337
C8.H10.O
BENZENEETHANOL
1149
M WT 122
B PK 91
RANK 3
3108
PUR 301
M/Z
40
60
80
100
120
140
160

MID LIBRARY SEARCH
08/06/85 18:14:00 + 14:55
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 895
CALI: EQ260D # 2

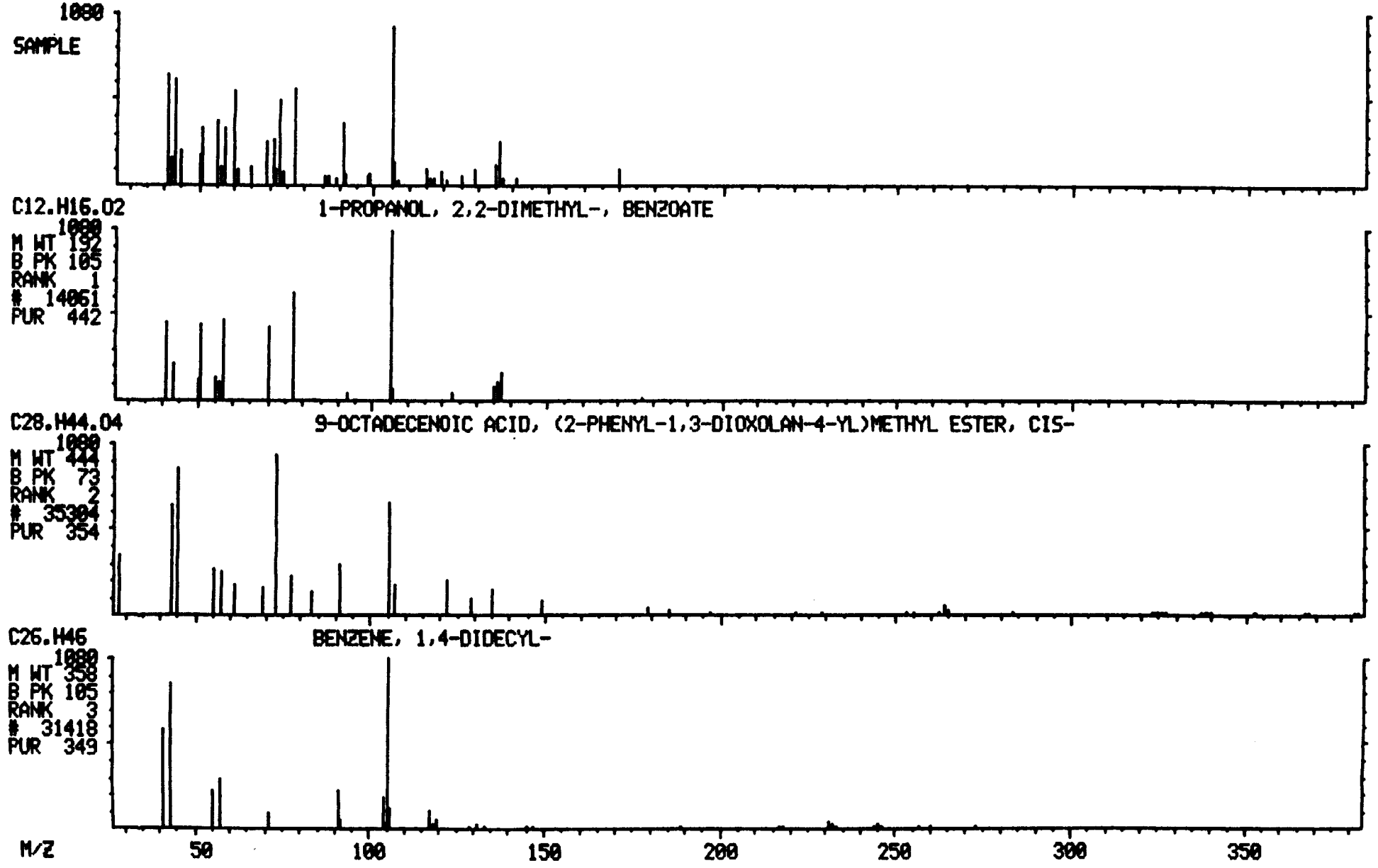
BASE M/Z: 133
RIC: 10687.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 15:10
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 910
CALI: EQ260D # 2

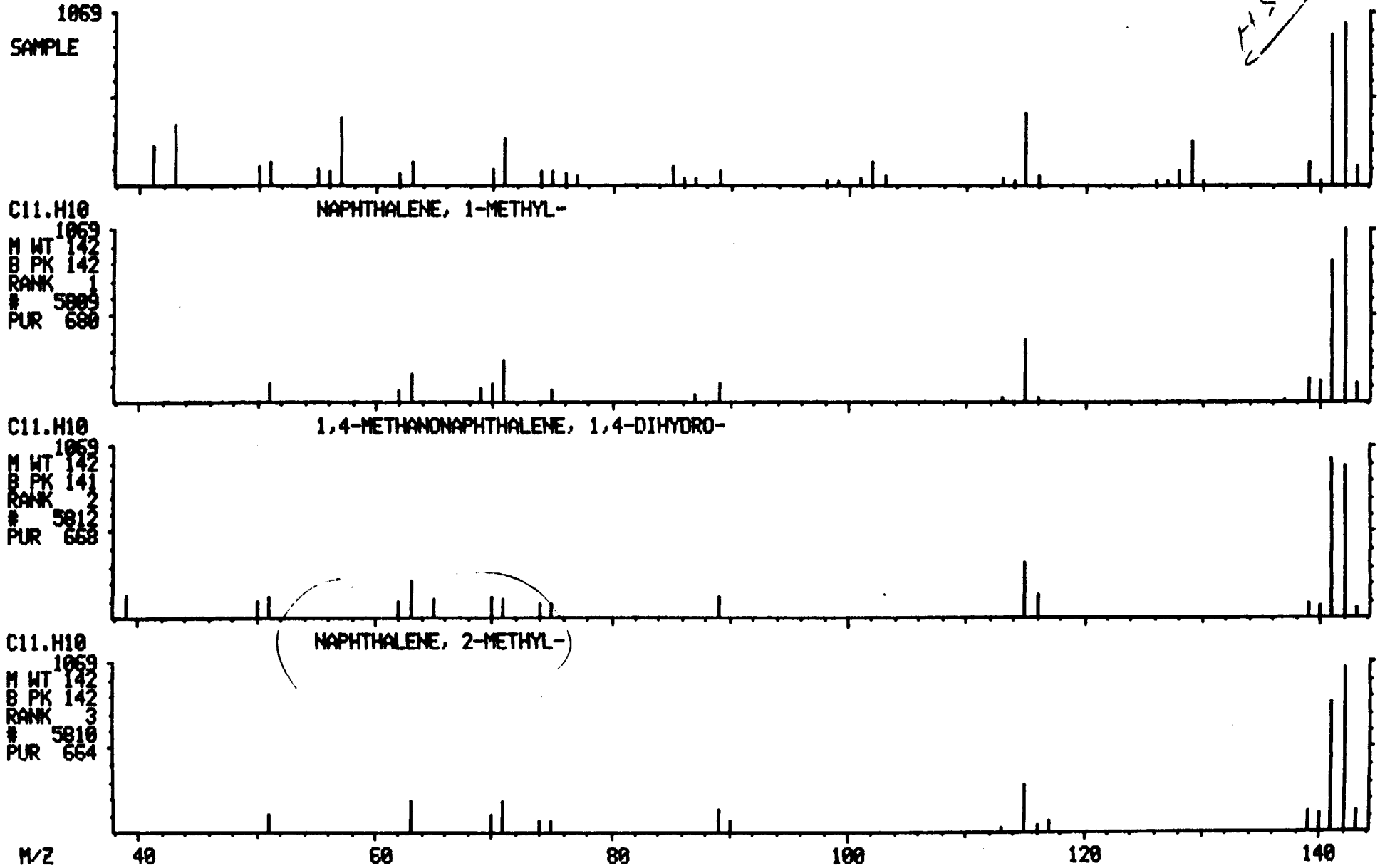
BASE M/Z: 105
RIC: 23519.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 15:29
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 929
CALI: EQ2600 # 2

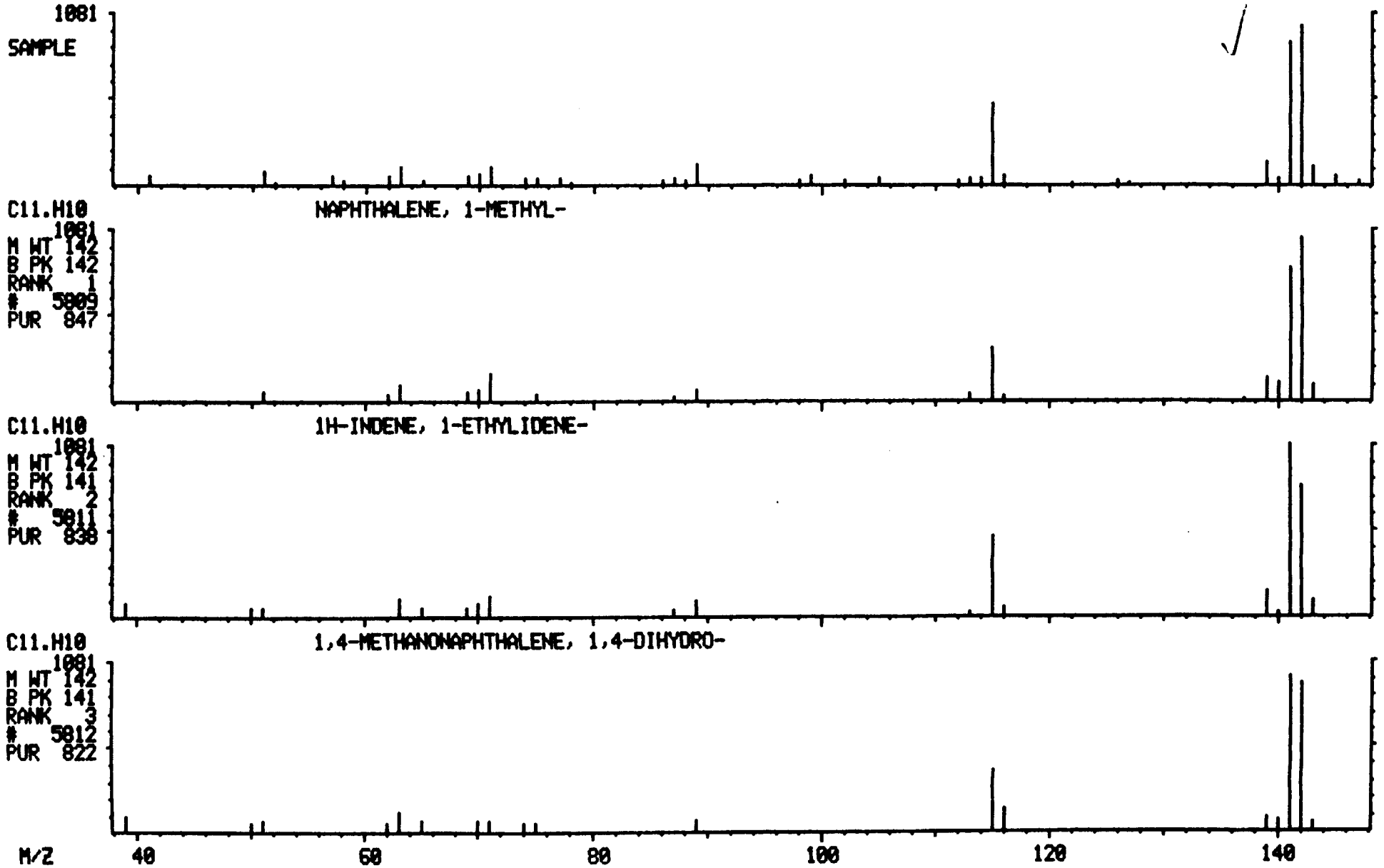
BASE M/Z: 142
RIC: 60927.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 15:48
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D # 948
CALI: EQ260D # 2

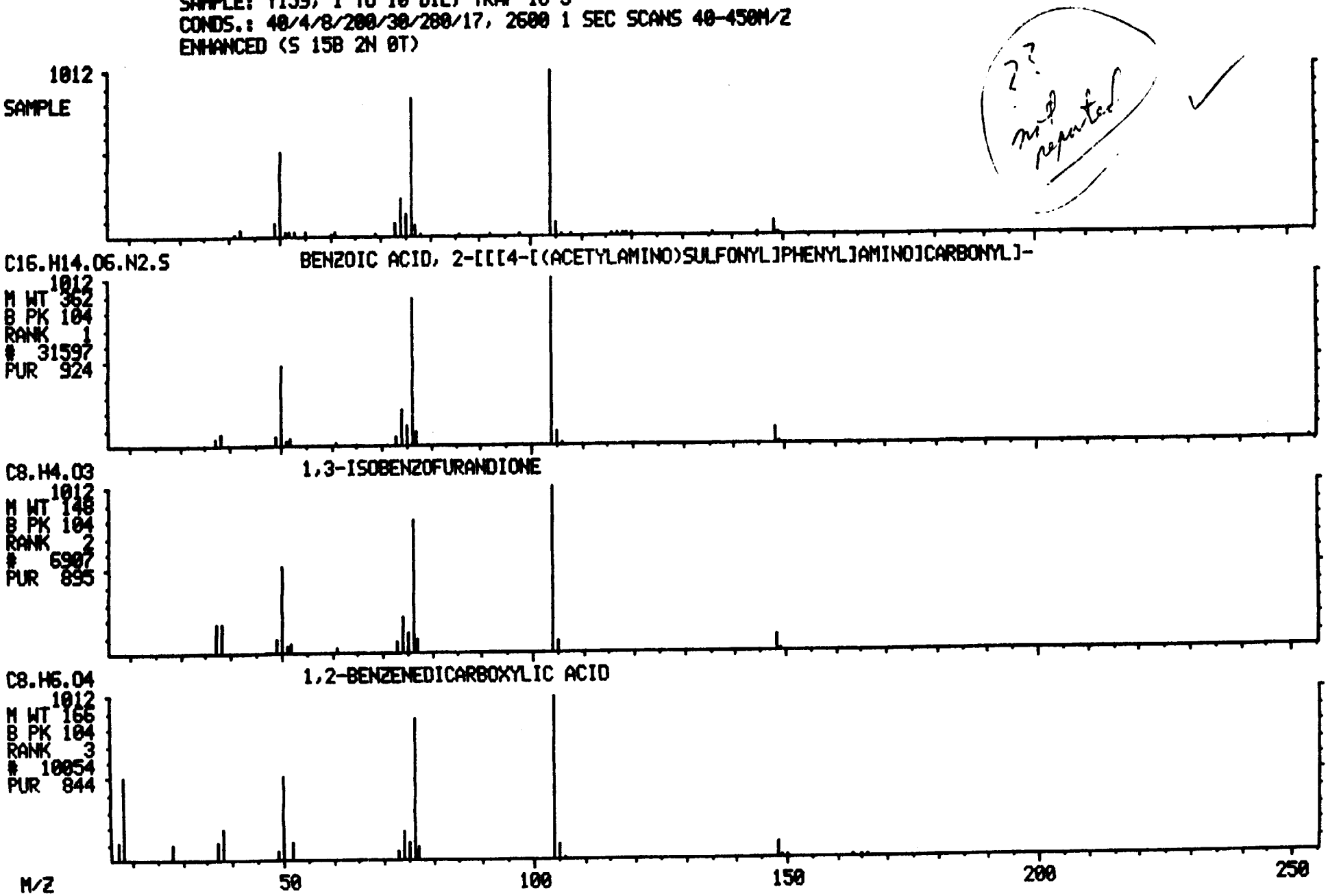
BASE M/Z: 142
RIC: 28767.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 15:54
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 954
CALI: EQ2600 # 2

BASE M/Z: 104
RIC: 53887.

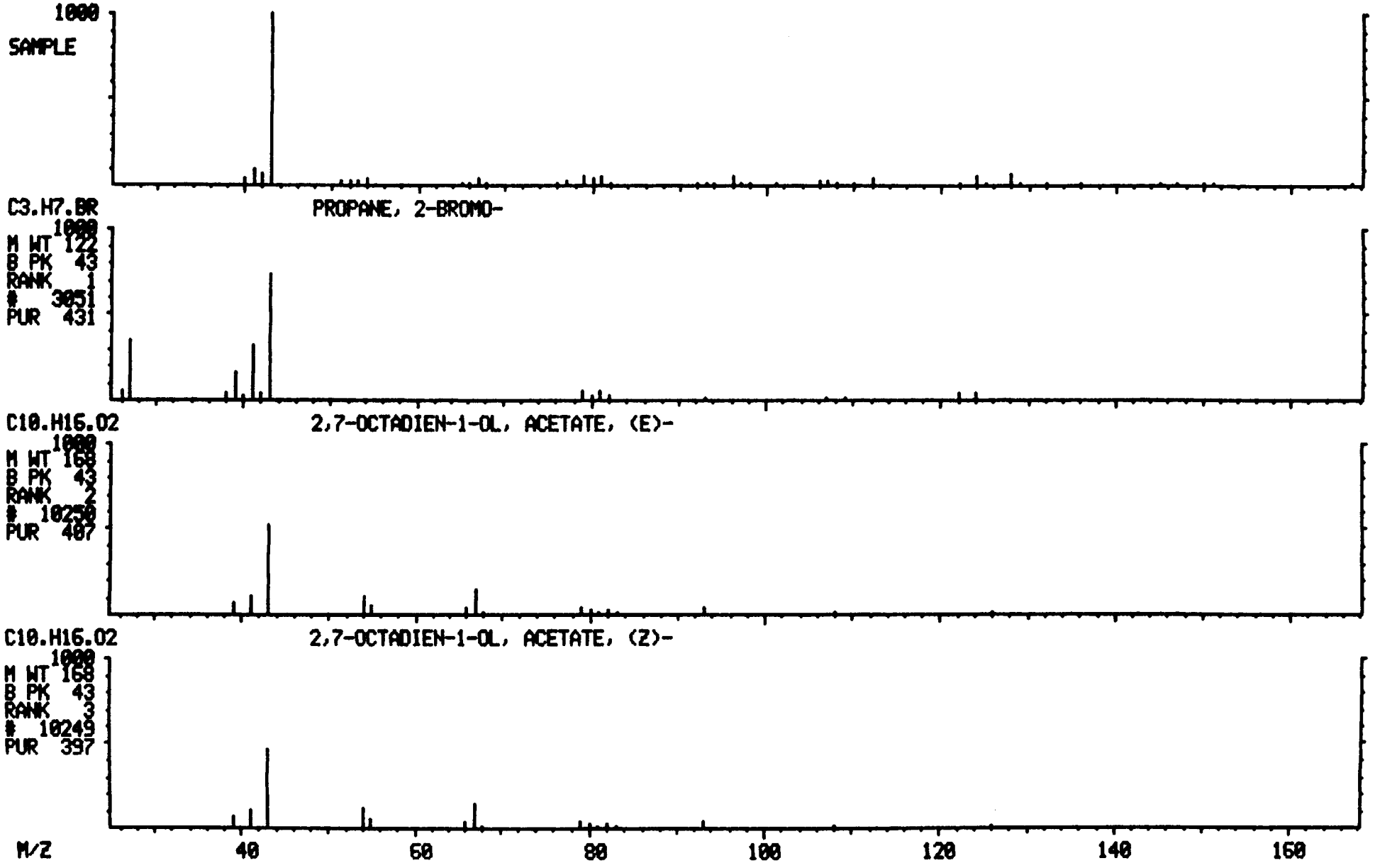


??
not reported
✓

MID LIBRARY SEARCH
08/06/85 18:14:00 + 16:05
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 965
CALI: EQ2600 # 2

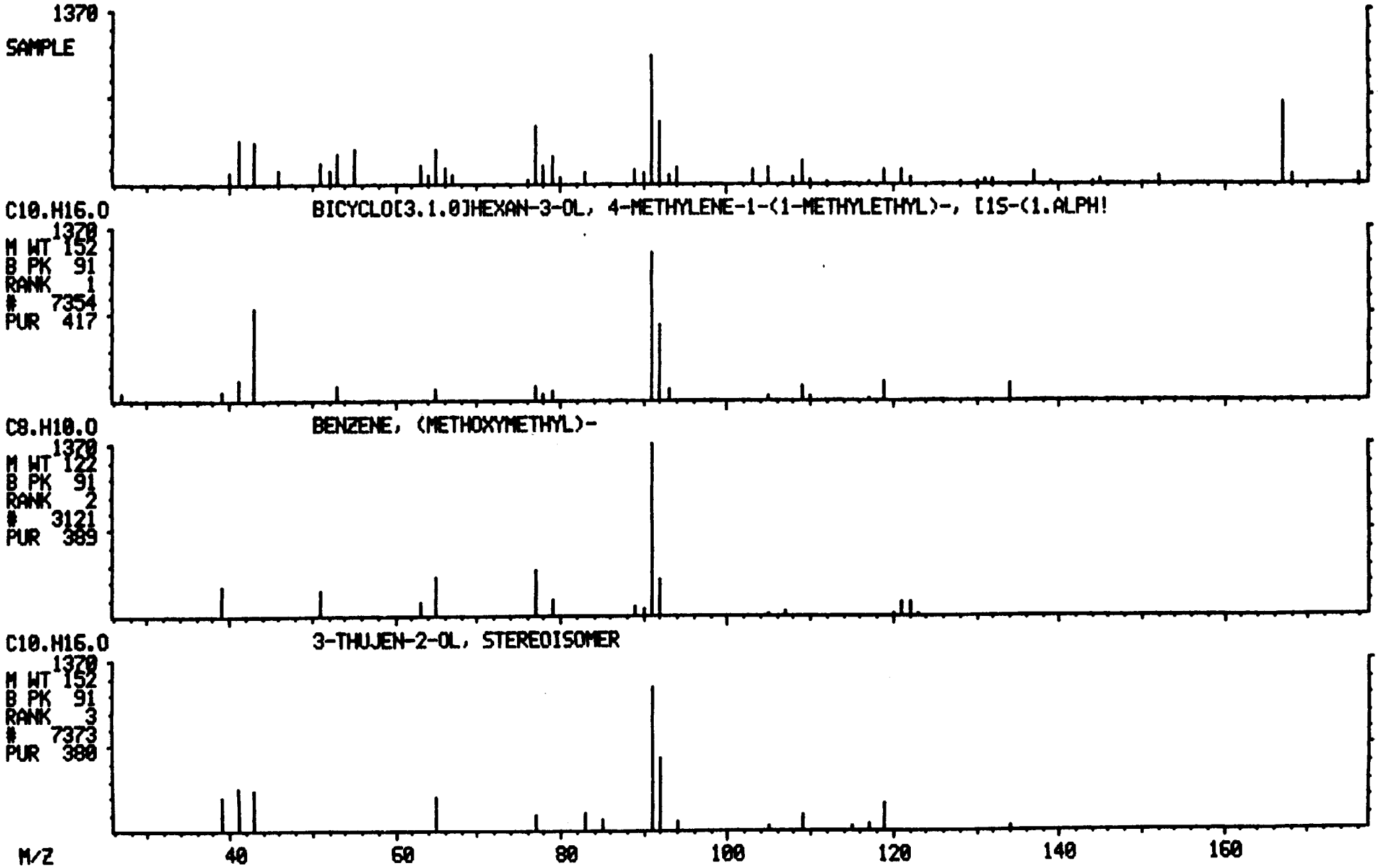
BASE M/Z: 43
RIC: 27583.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 16:39
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 # 999
CALI: EQ2600 # 2

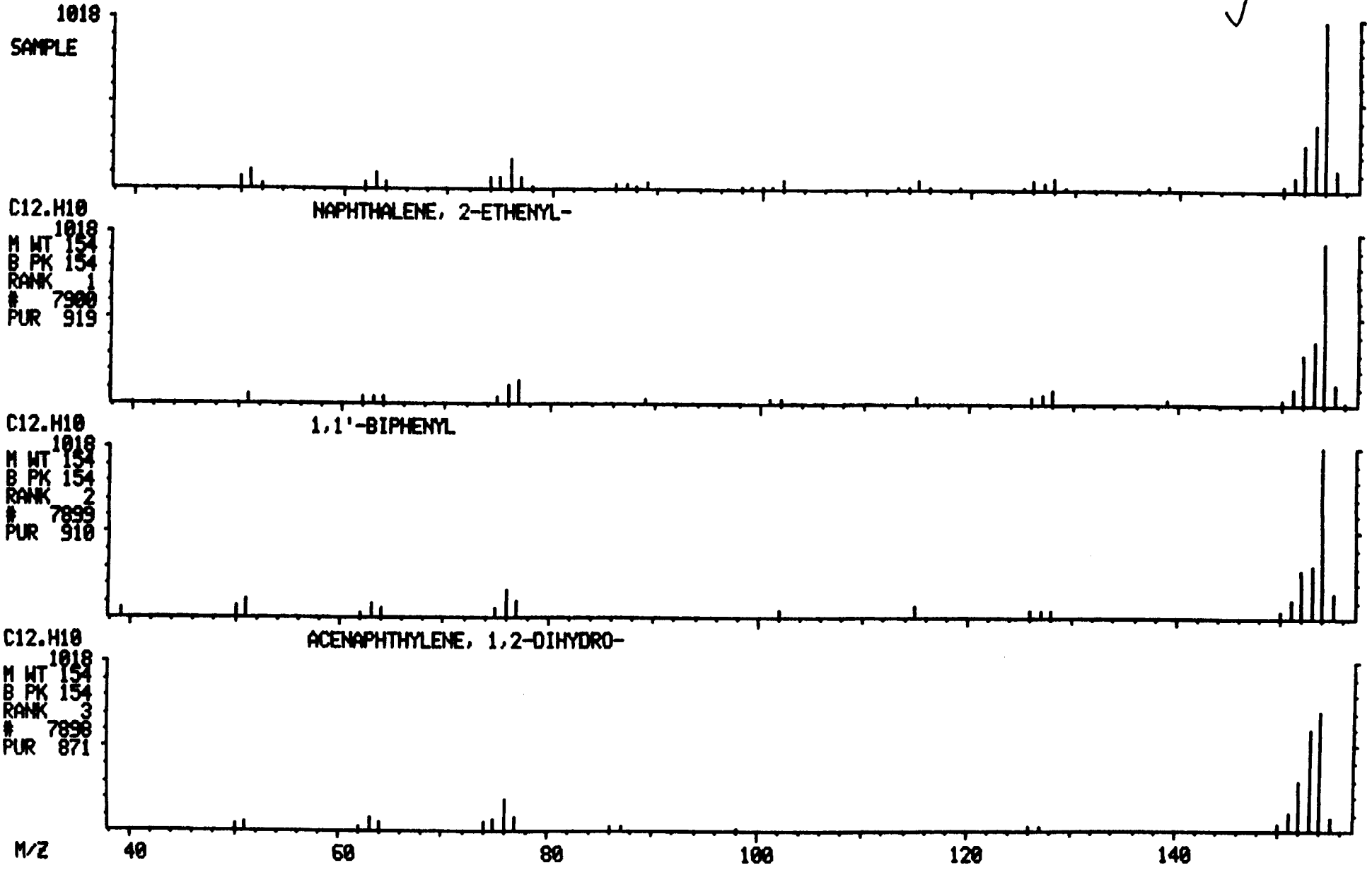
BASE M/Z: 91
RIC: 21535.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 17:00
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1020
CALI: EQ2600 # 2

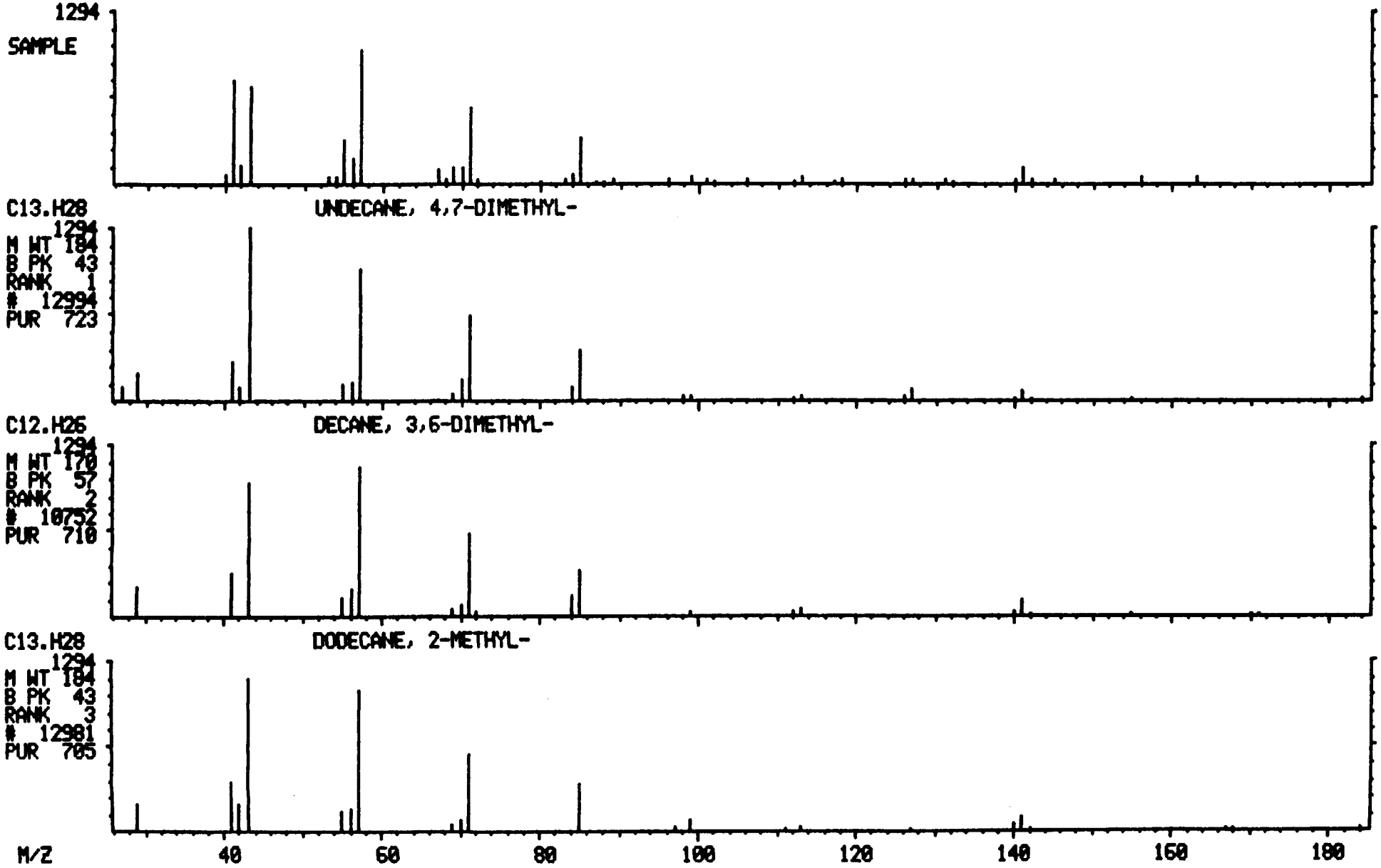
BASE M/Z: 154
RIC: 52479.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 17:14
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1034
CALI: EQ2600 # 2

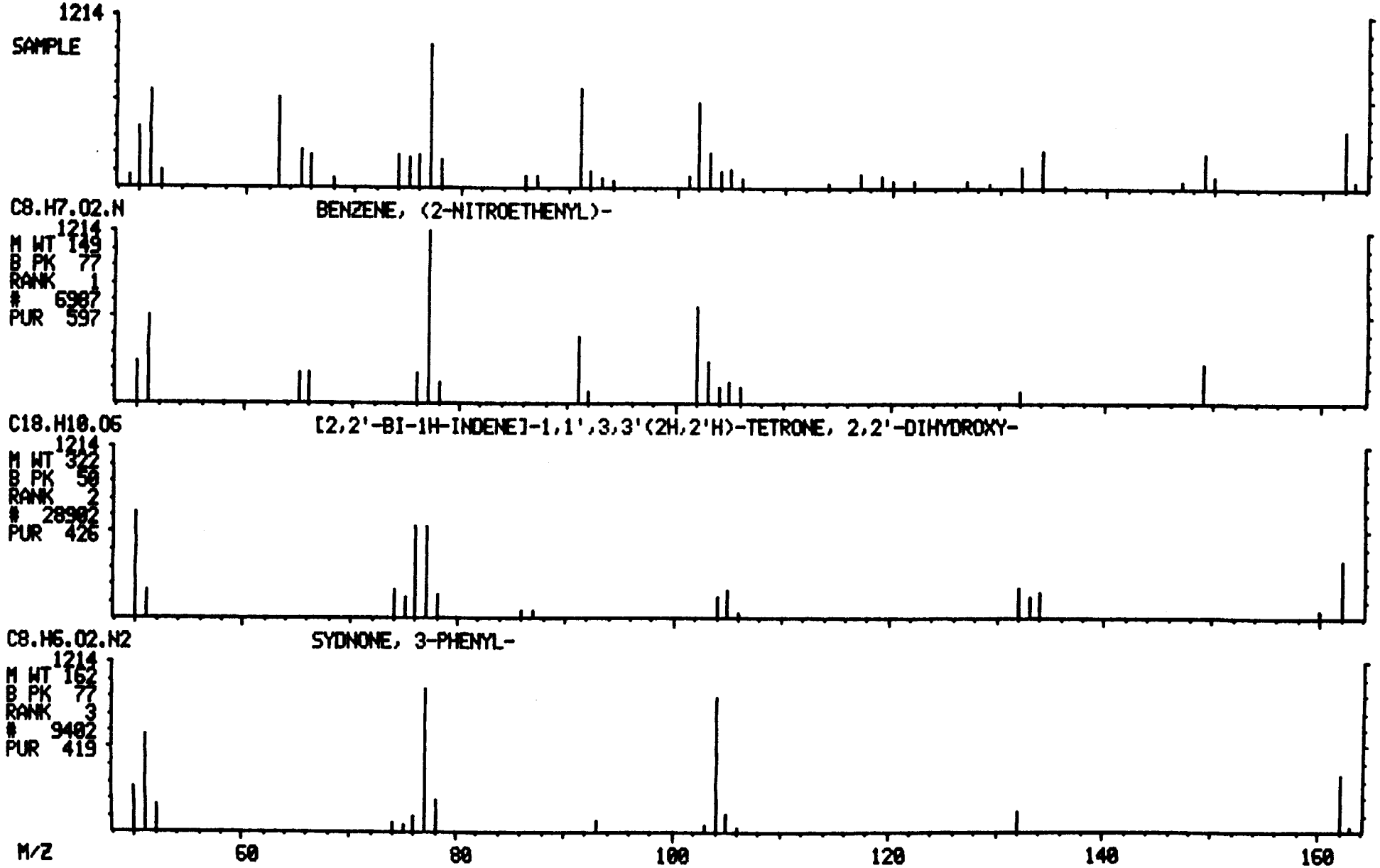
BASE M/Z: 57
RIC: 24031.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 17:29
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1049
CALI: EQ260D # 2

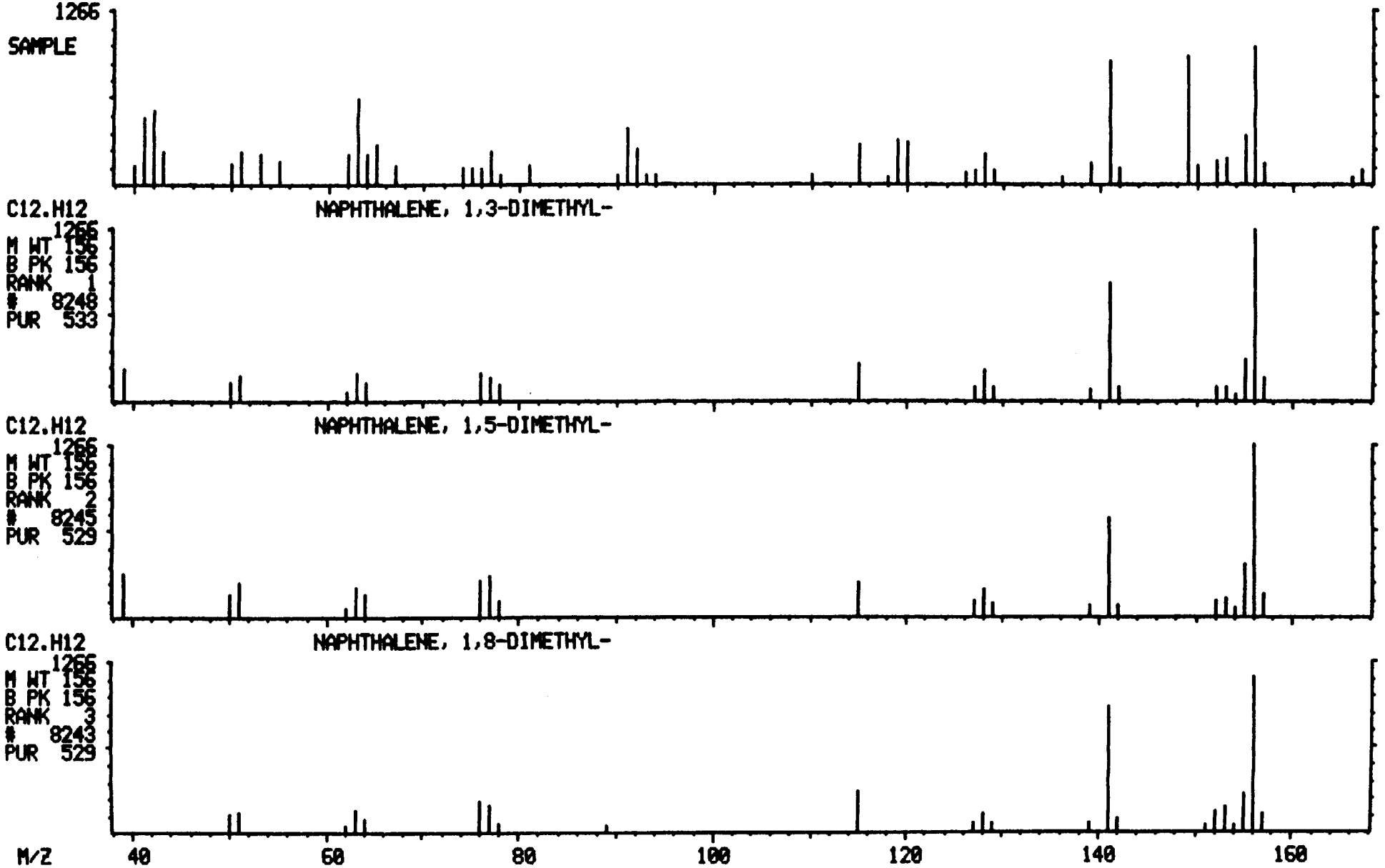
BASE M/Z: 77
RIC: 21919.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 17:42
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1062
CALI: EQ2600 # 2

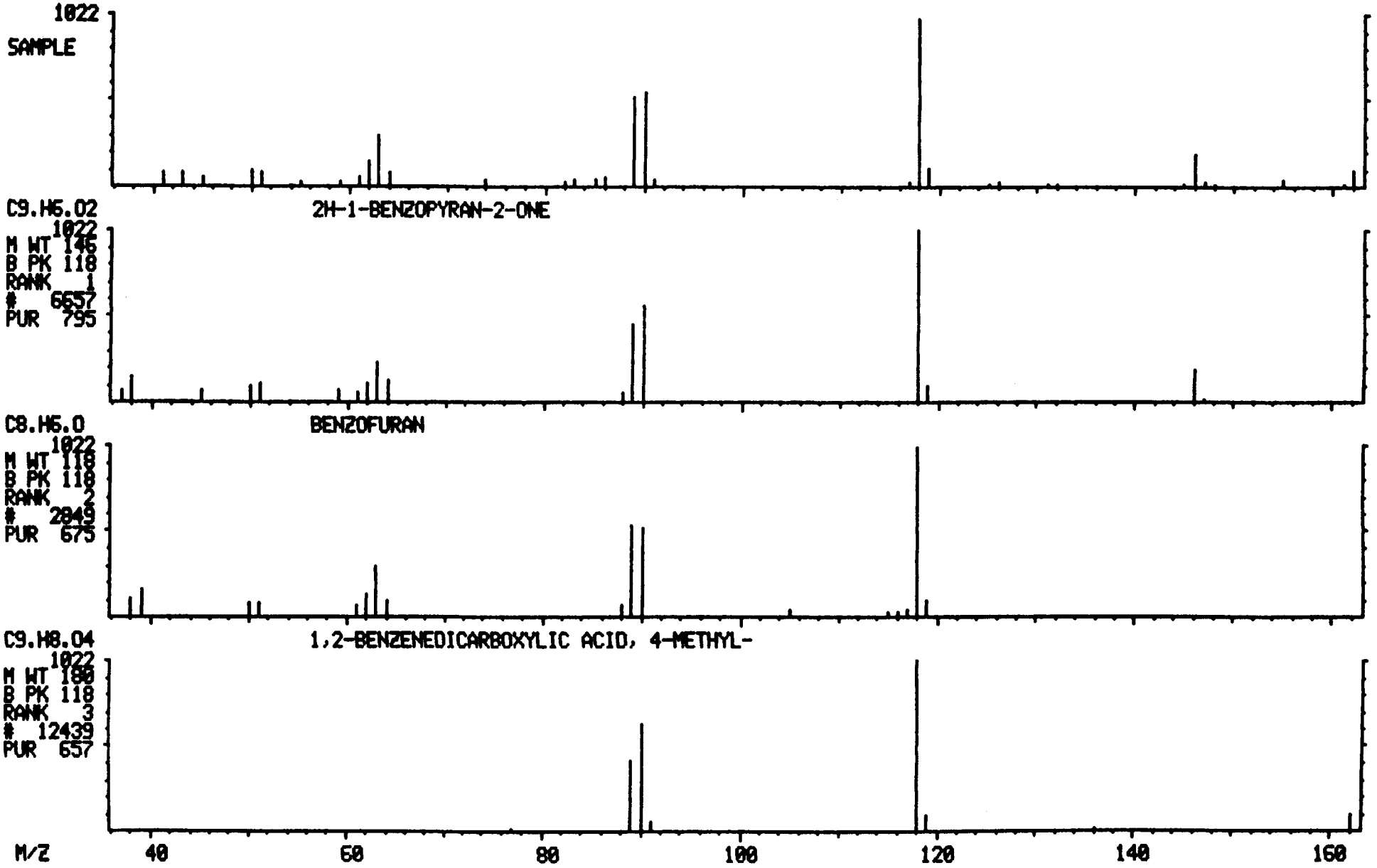
BASE M/Z: 156
RIC: 26399.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 18:05
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1085
CALI: EQ260D # 2

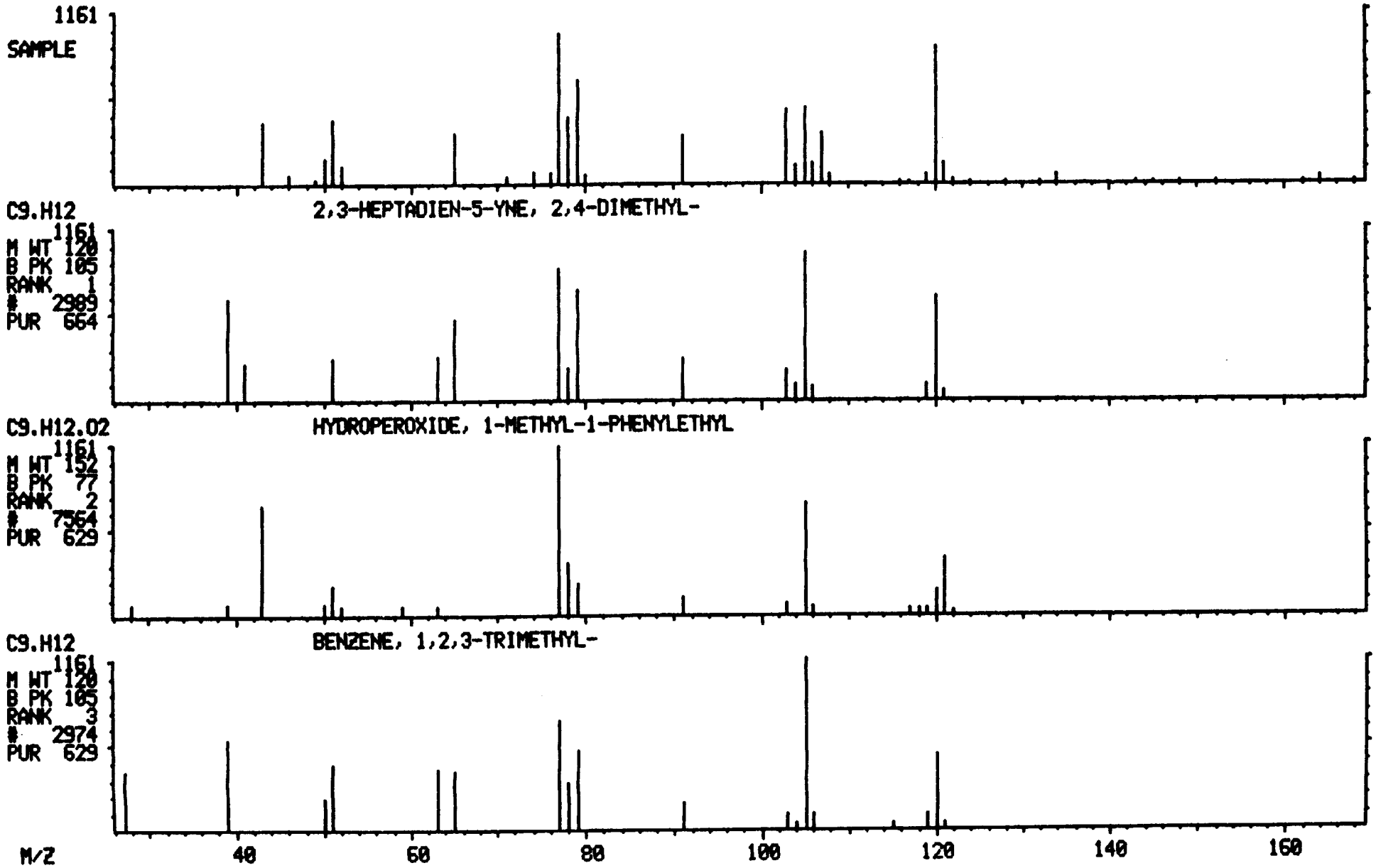
BASE M/Z: 118
RIC: 21855.

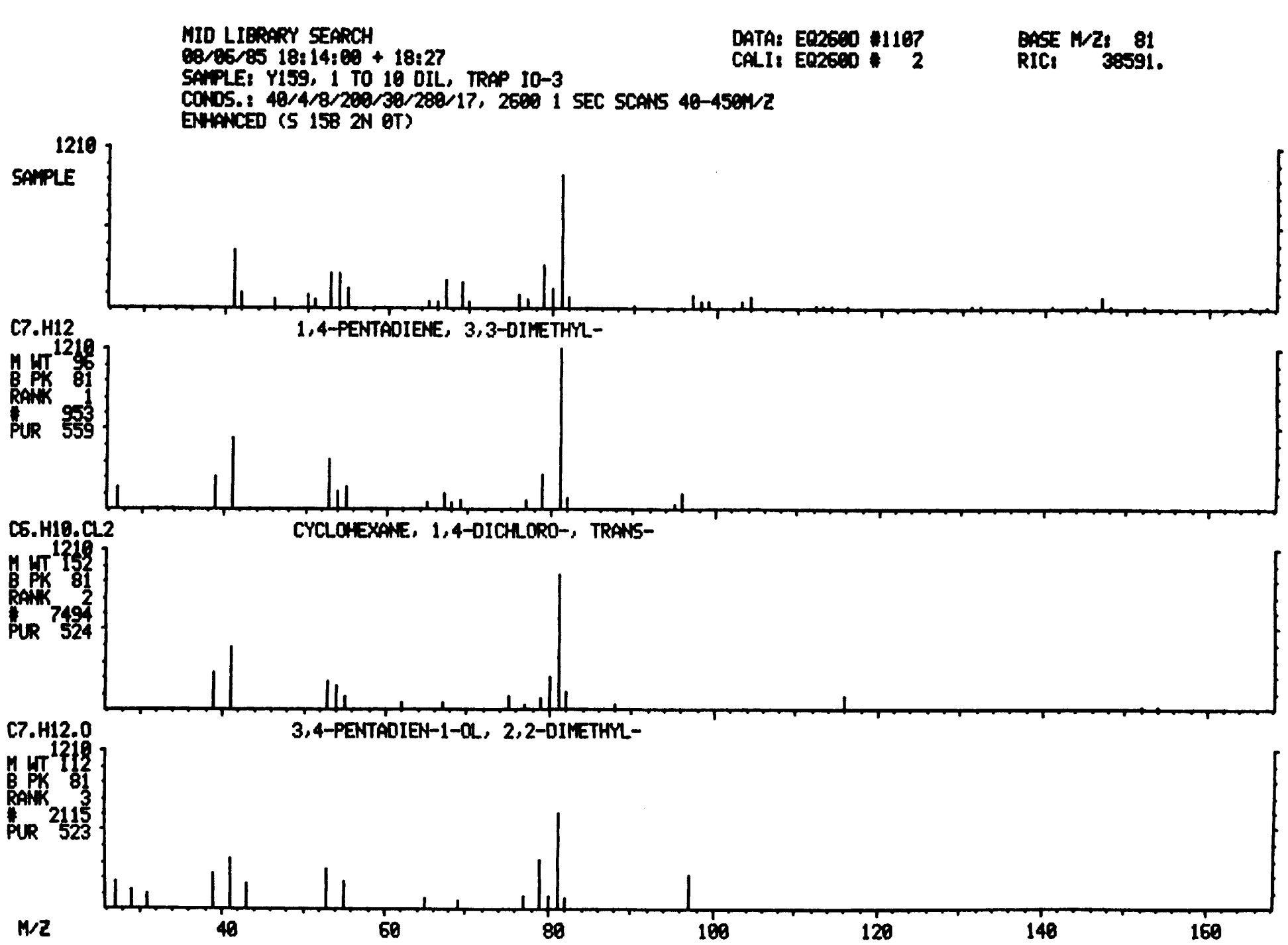


MID LIBRARY SEARCH
08/06/85 18:14:00 + 18:12
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1092
CALI: EQ2600 # 2

BASE M/Z: 77
RIC: 23903.

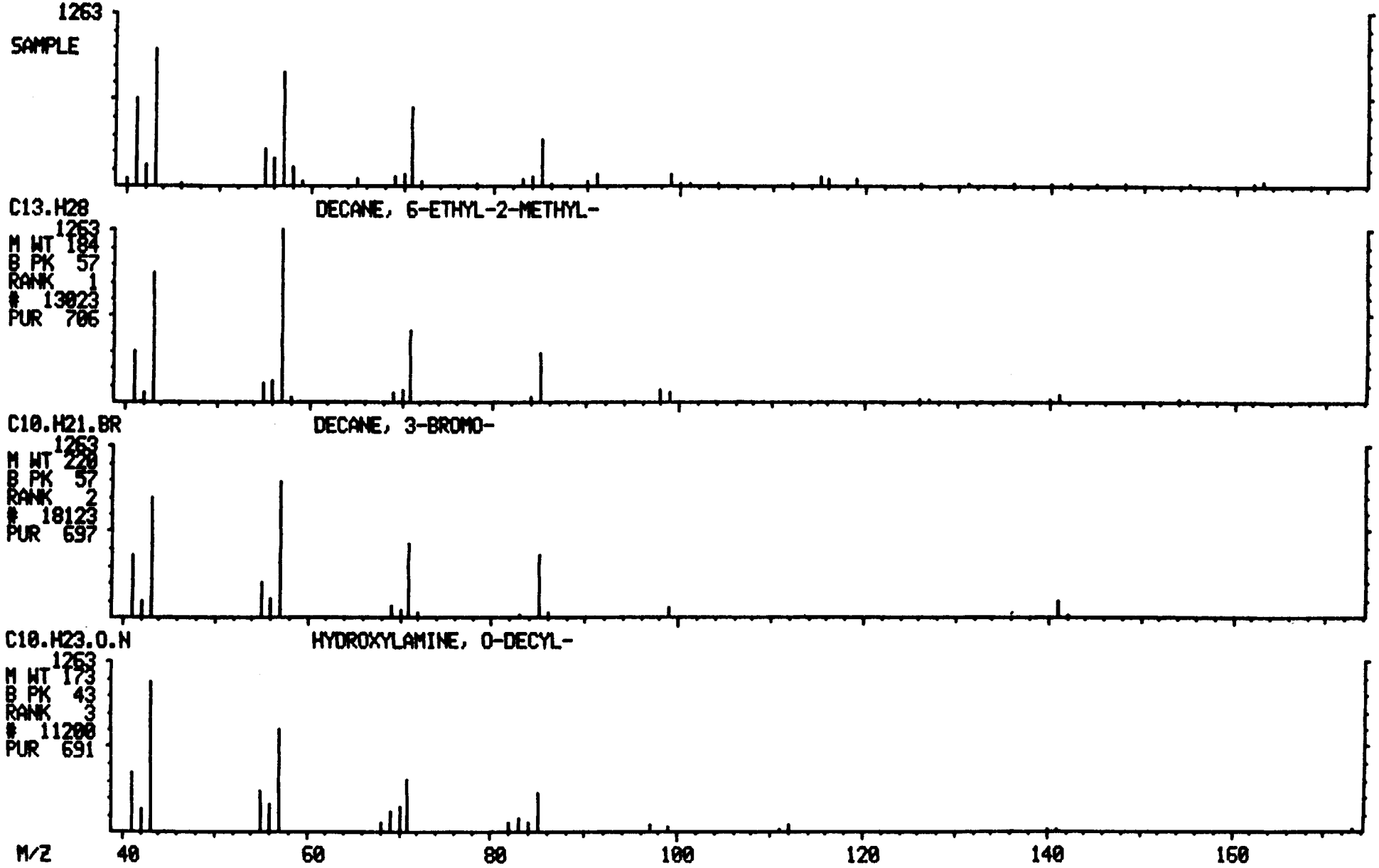



MID LIBRARY SEARCH
08/06/85 18:14:00 + 18:27
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ2600 #1107
CALI: EQ2600 # 2
BASE M/Z: 81
RIC: 38591.
1210
SAMPLE
C7.H12
1,4-PENTADIENE, 3,3-DIMETHYL-
M WT 96
B PK 81
RANK 1
953
PUR 559
C6.H10.CL2
CYCLOHEXANE, 1,4-DICHLORO-, TRANS-
M WT 152
B PK 81
RANK 2
7494
PUR 524
C7.H12.O
3,4-PENTADIEN-1-OL, 2,2-DIMETHYL-
M WT 112
B PK 81
RANK 3
2115
PUR 523
M/Z
40
60
80
100
120
140
160

MID LIBRARY SEARCH
08/06/85 18:14:00 + 18:53
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1133
CALI: EQ2600 # 2

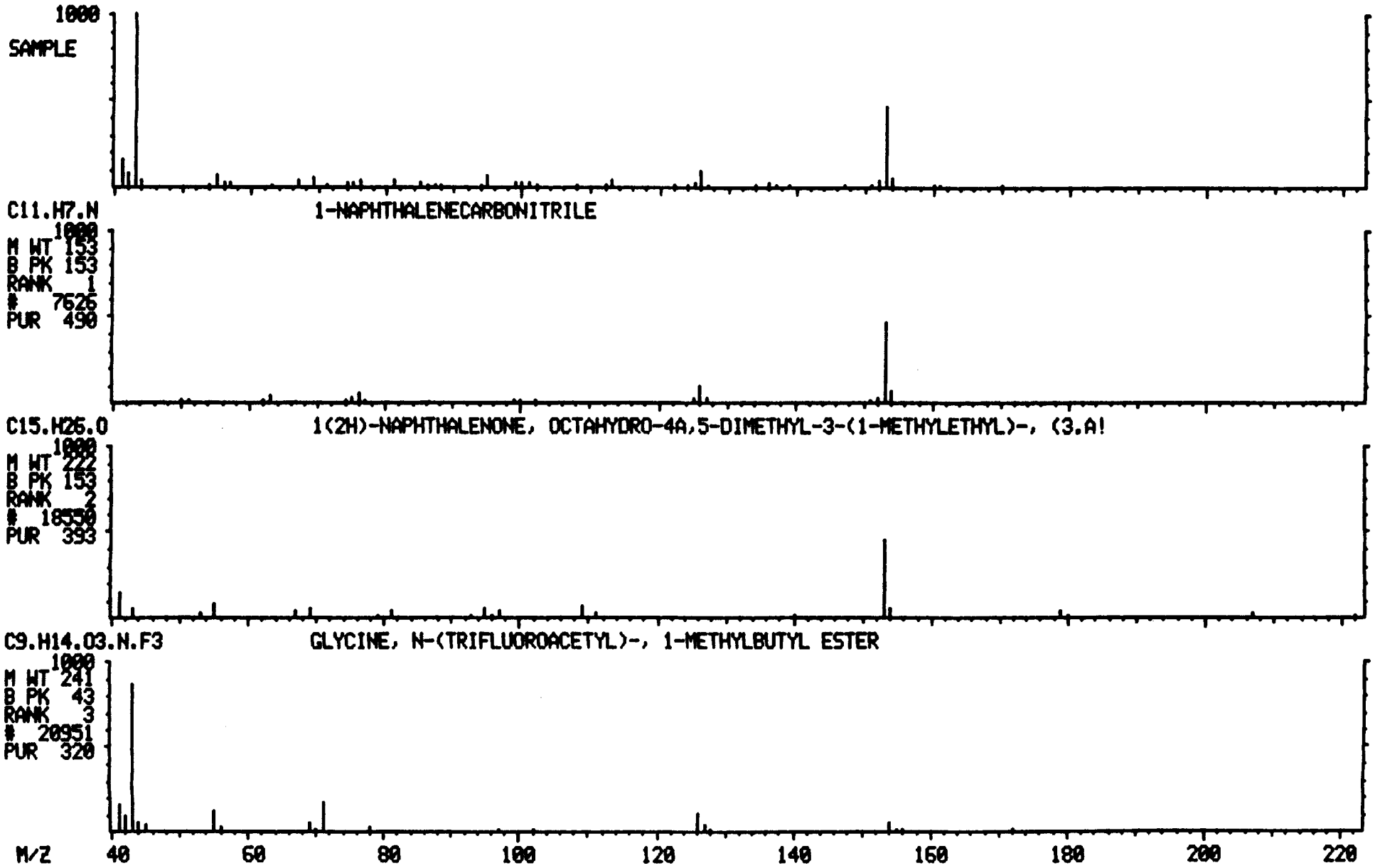
BASE M/Z: 43
RIC: 24351.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 18:59
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1139
CALI: EQ2600 # 2

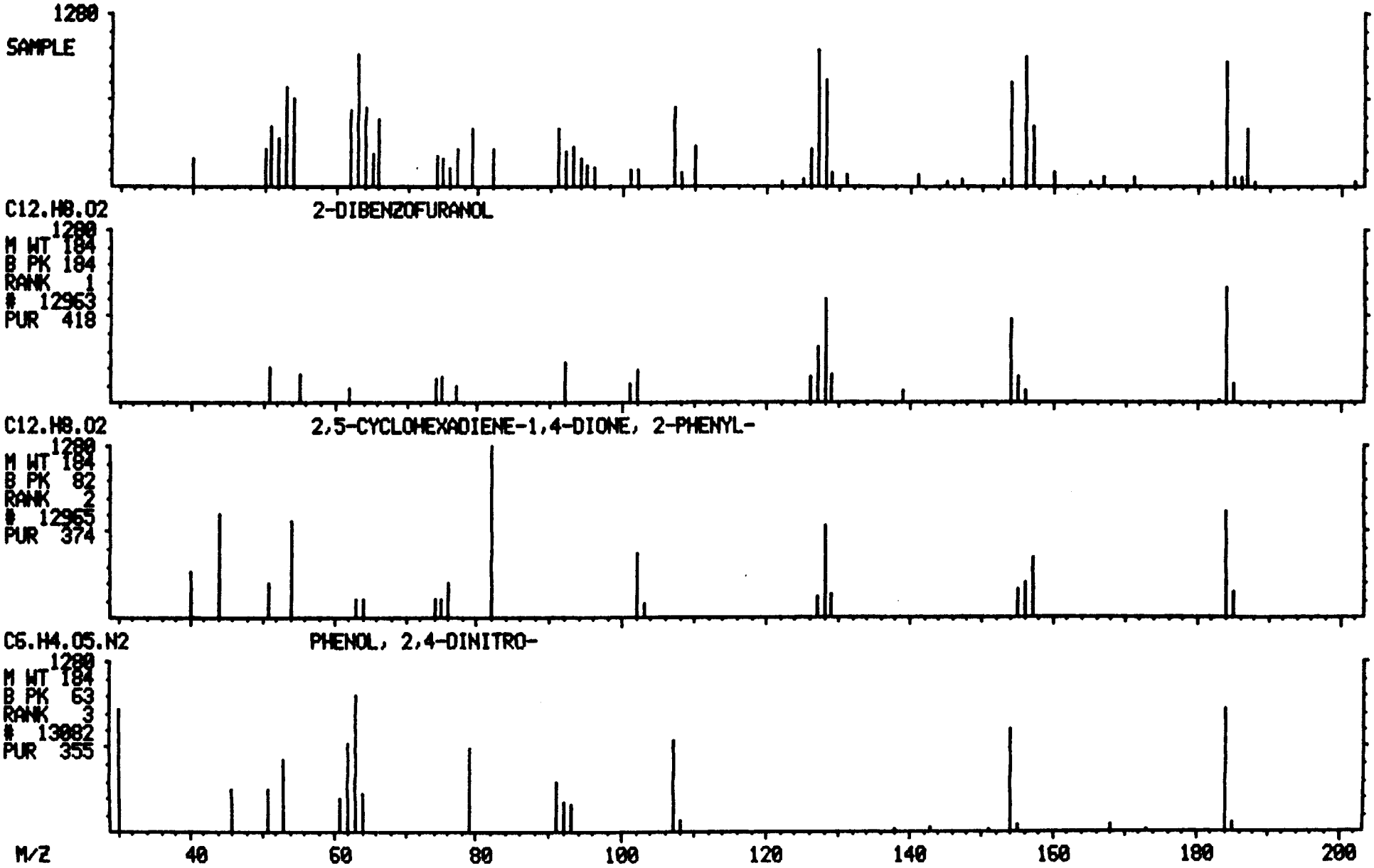
BASE M/Z: 43
RIC: 24511.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 19:00
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1148
CALI: EQ2600 # 2

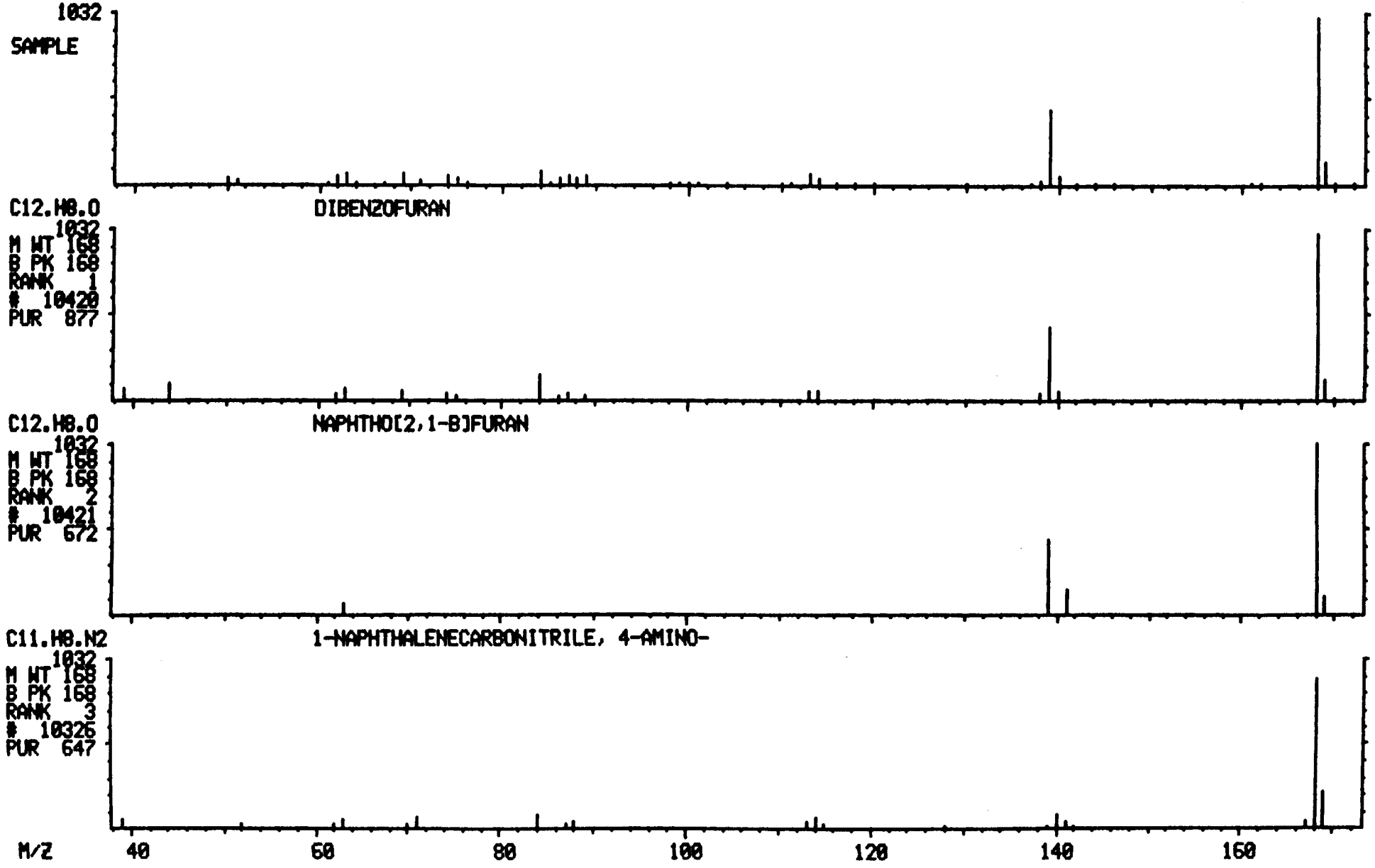
BASE M/Z: 127
RIC: 37247.

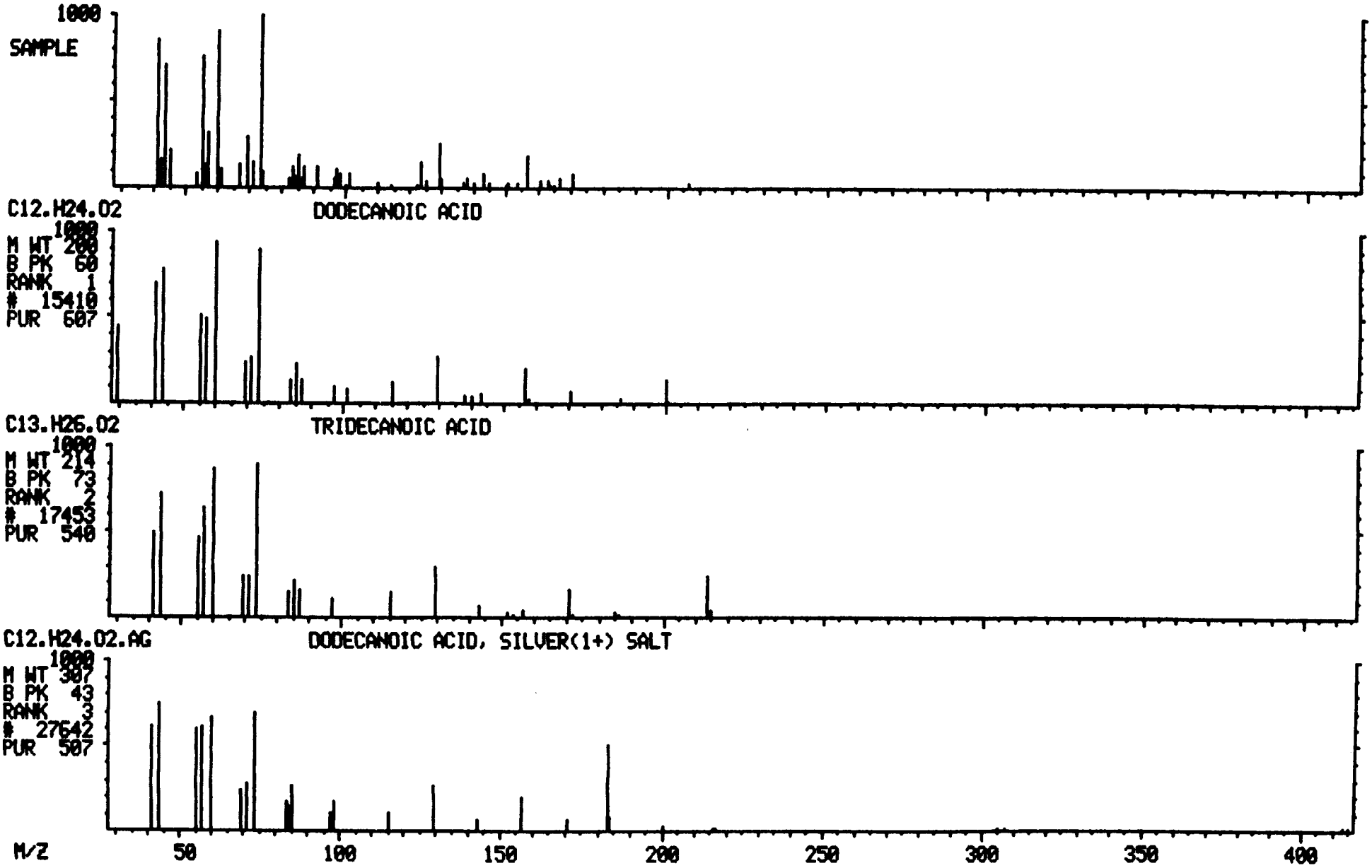


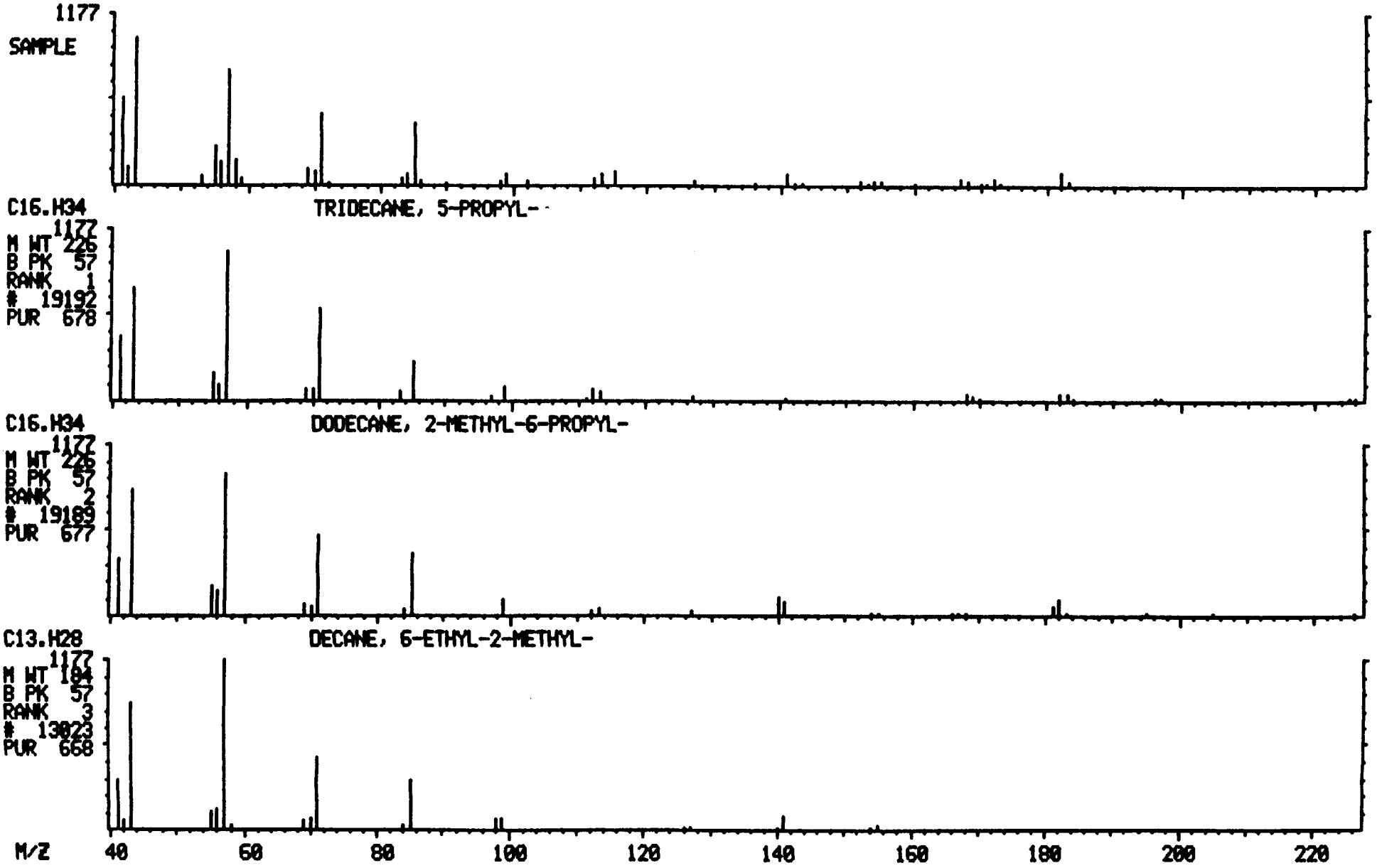
MID LIBRARY SEARCH
08/06/85 18:14:00 + 19:19
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1159
CALI: EQ260D # 2

BASE M/Z: 168
RIC: 37439.



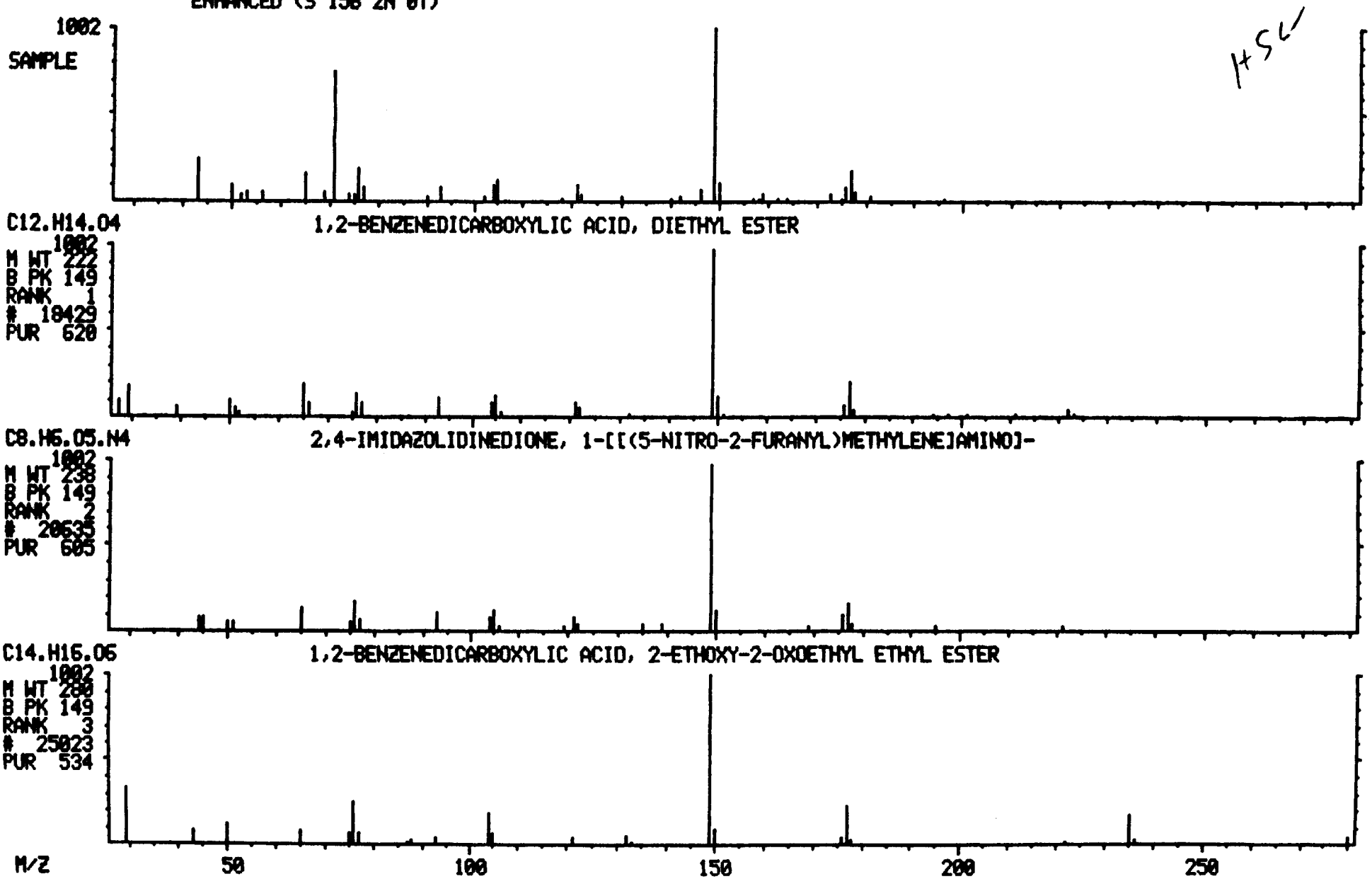

MID LIBRARY SEARCH
08/06/85 18:14:00 + 19:57
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ260D #1197
CALI: EQ260D # 2
BASE M/Z: 73
RIC: 18751.
1000
SAMPLE
C12.H24.02
DODECANOIC ACID
M WT 200
B PK 60
RANK 1
15410
PUR 607
C13.H26.02
TRIDECANOIC ACID
M WT 214
B PK 73
RANK 2
17453
PUR 540
C12.H24.02.AG
DODECANOIC ACID, SILVER(1+) SALT
M WT 307
B PK 43
RANK 3
27642
PUR 507
M/Z
50
100
150
200
250
300
350
400


MID LIBRARY SEARCH
08/06/85 18:14:00 + 20:26
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (5 15B 2N 0T)
DATA: EQ260D #1226
CALI: EQ260D # 2
BASE M/Z: 43
RIC: 19743.
1177
SAMPLE
C16.H34
TRIDECANE, 5-PROPYL-
1177
M WT 226
B PK 57
RANK 1
19192
PUR 678
C16.H34
DODECANE, 2-METHYL-6-PROPYL-
1177
M WT 226
B PK 57
RANK 2
19189
PUR 677
C13.H28
DECANE, 6-ETHYL-2-METHYL-
1177
M WT 184
B PK 57
RANK 3
13823
PUR 668
M/Z
40
60
80
100
120
140
160
180
200
220

MID LIBRARY SEARCH
08/06/85 18:14:00 + 20:30
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1230
CALI: EQ260D # 2

BASE M/Z: 149
RIC: 16271.

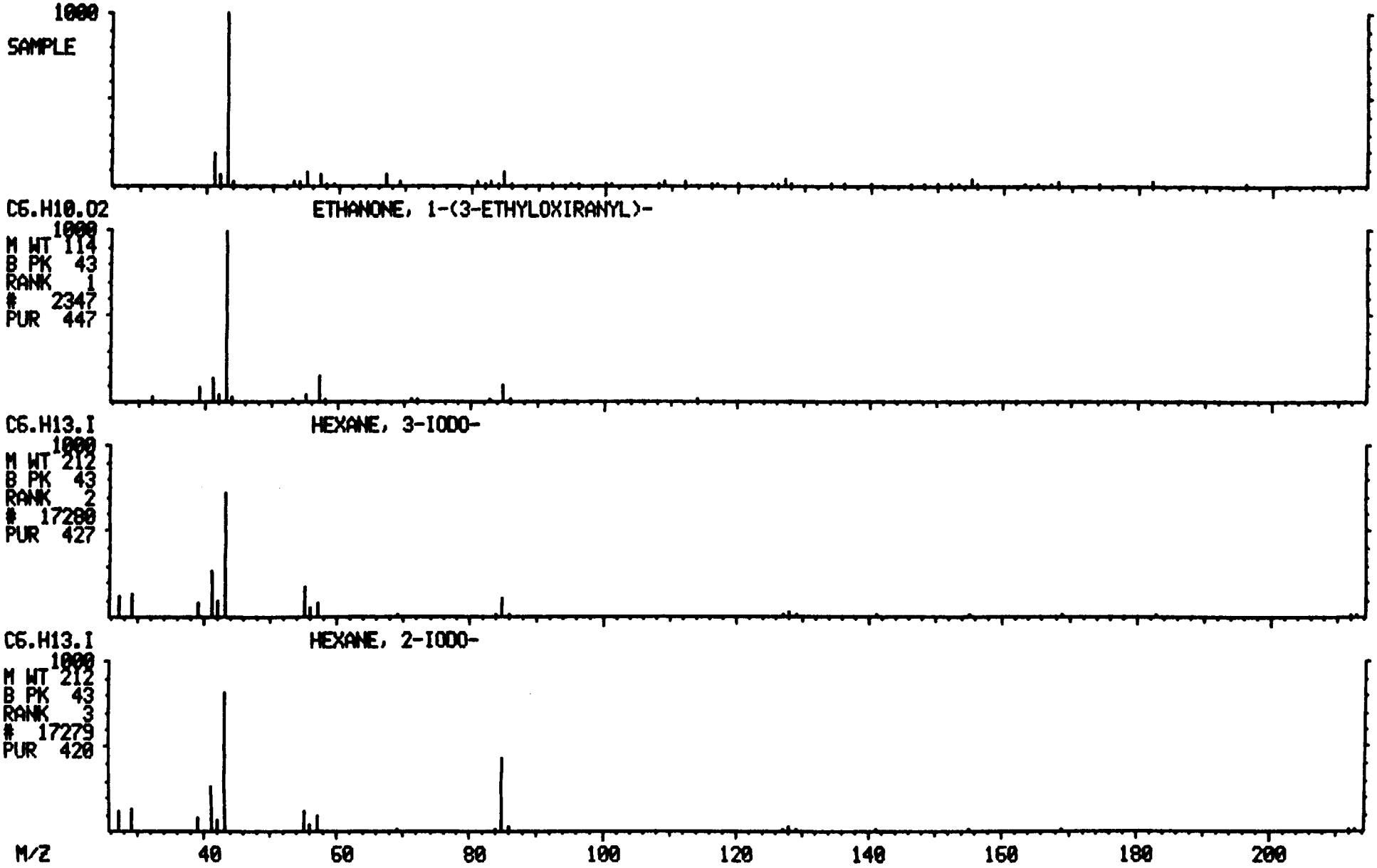


HSV

MID LIBRARY SEARCH
08/06/85 18:14:00 + 20:35
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1235
CALI: EQ2600 # 2

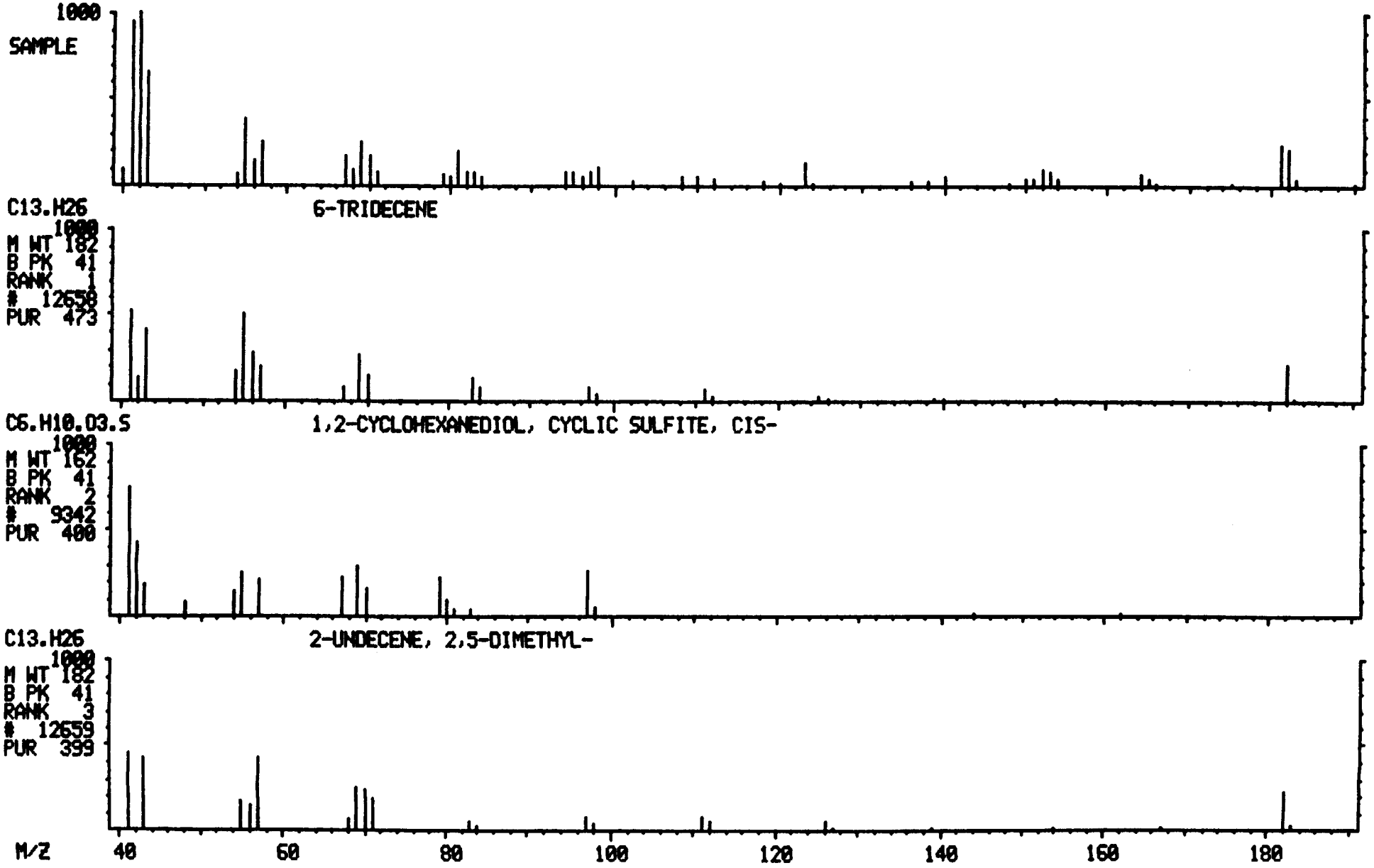
BASE M/Z: 43
RIC: 21855.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 20:58
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1258
CALI: EQ2600 # 2

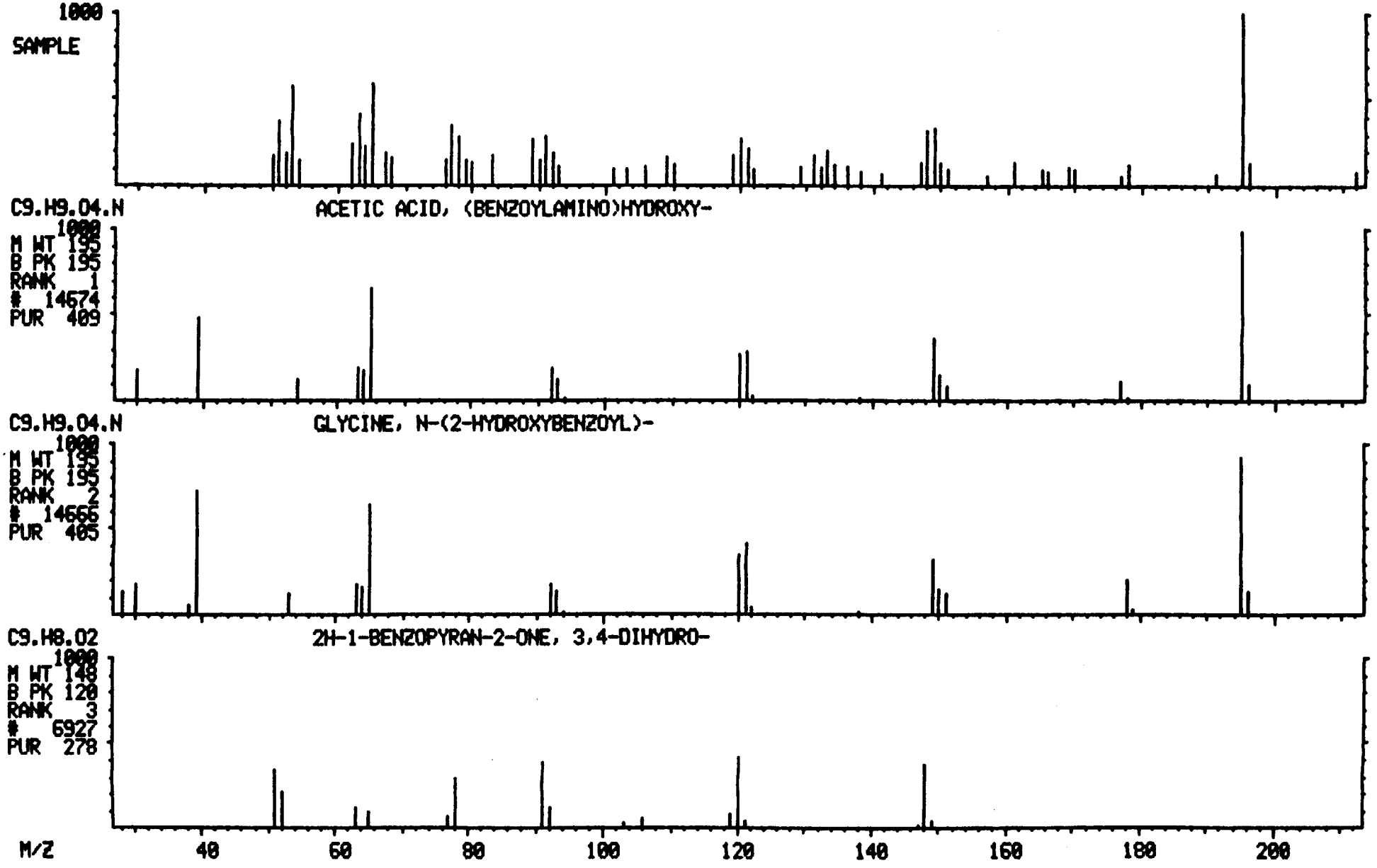
BASE M/Z: 42
RIC: 18751.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 21:28
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1208
CALI: EQ2600 # 2

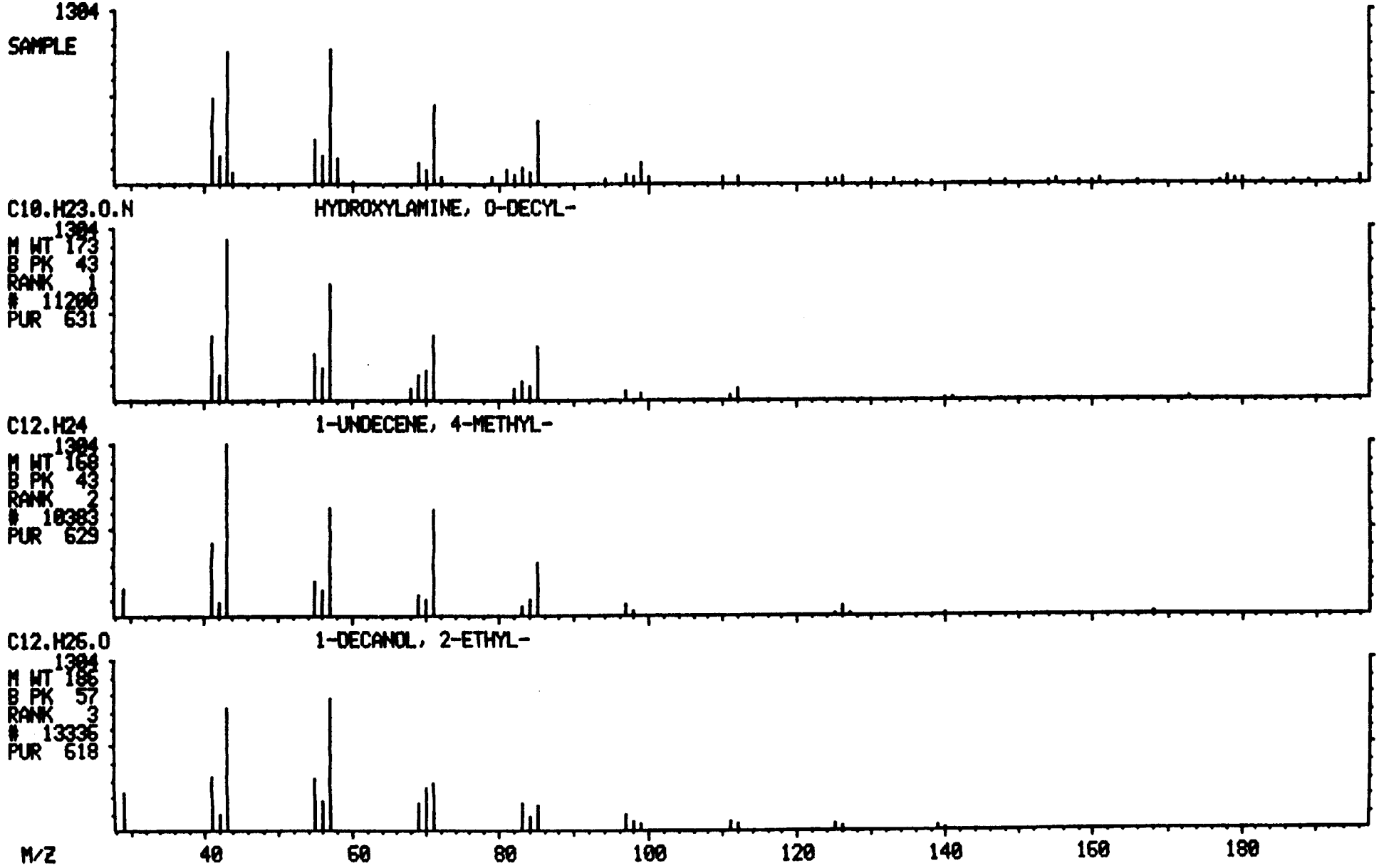
BASE M/Z: 195
RIC: 14111.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 21:55
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1315
CALI: EQ260D # 2

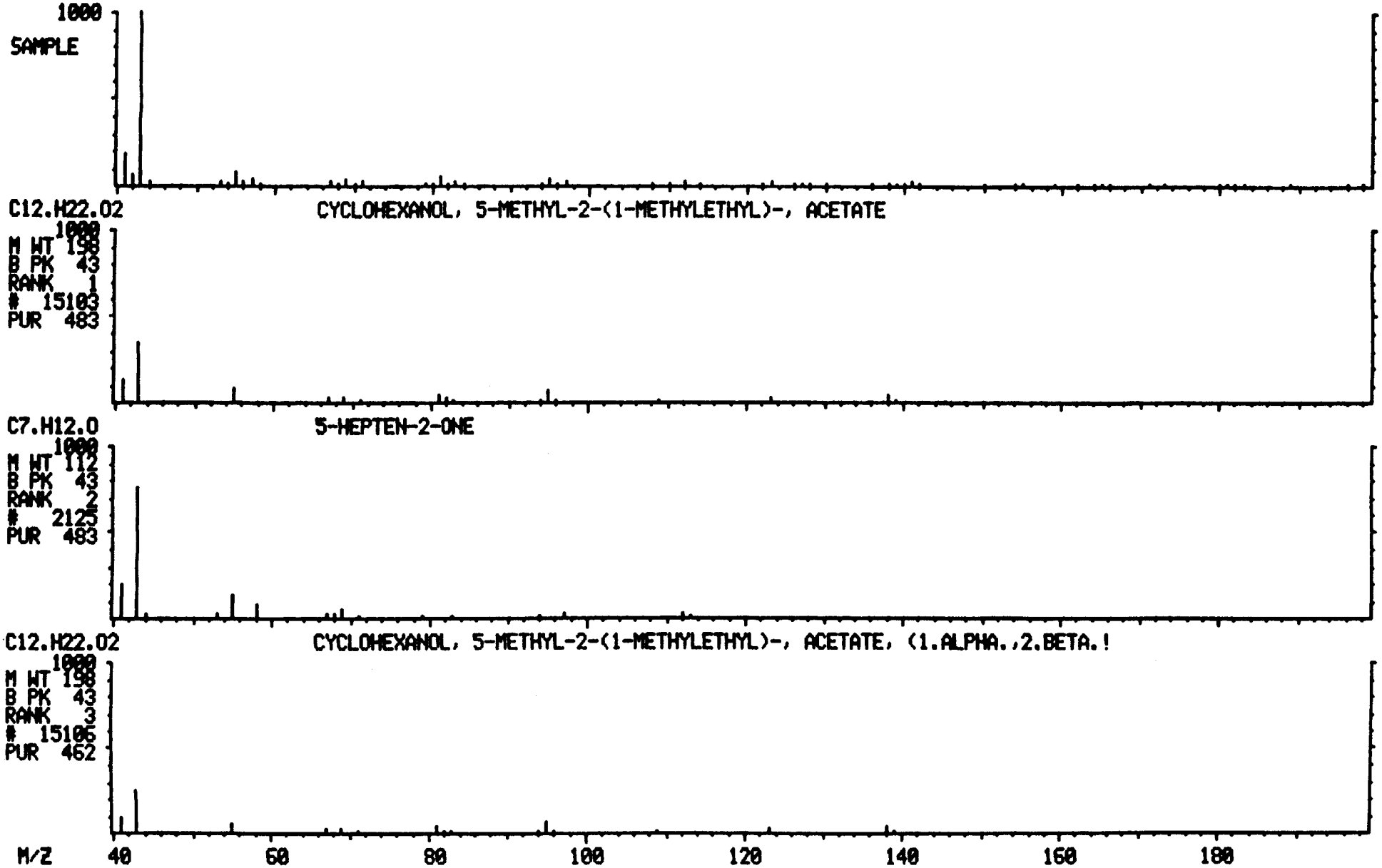
BASE M/Z: 57
RIC: 16415.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 22:07
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1327
CALI: EQ260D # 2

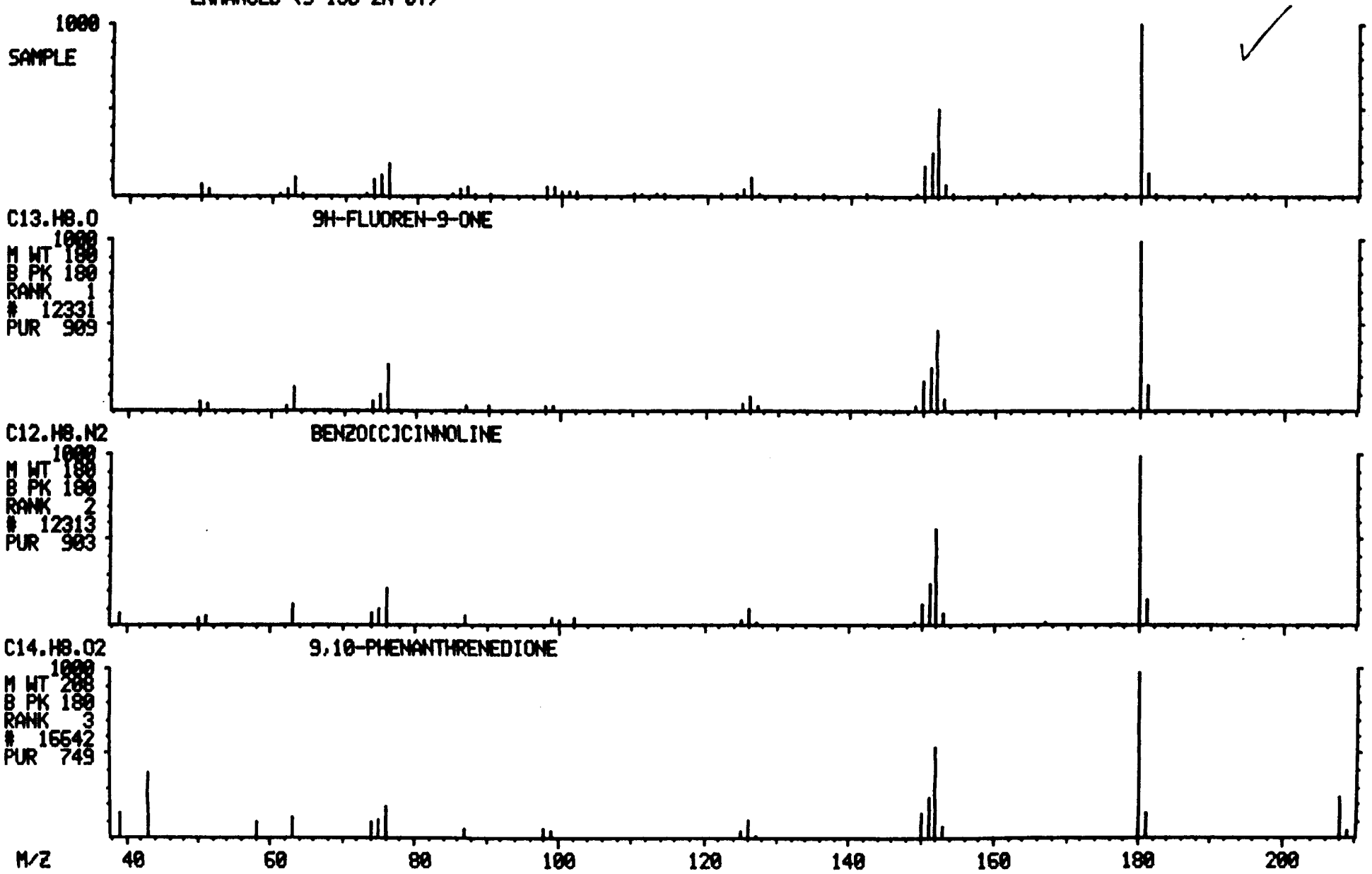
BASE M/Z: 43
RIC: 27775.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 22:43
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1363
CALI: EQ2600 # 2

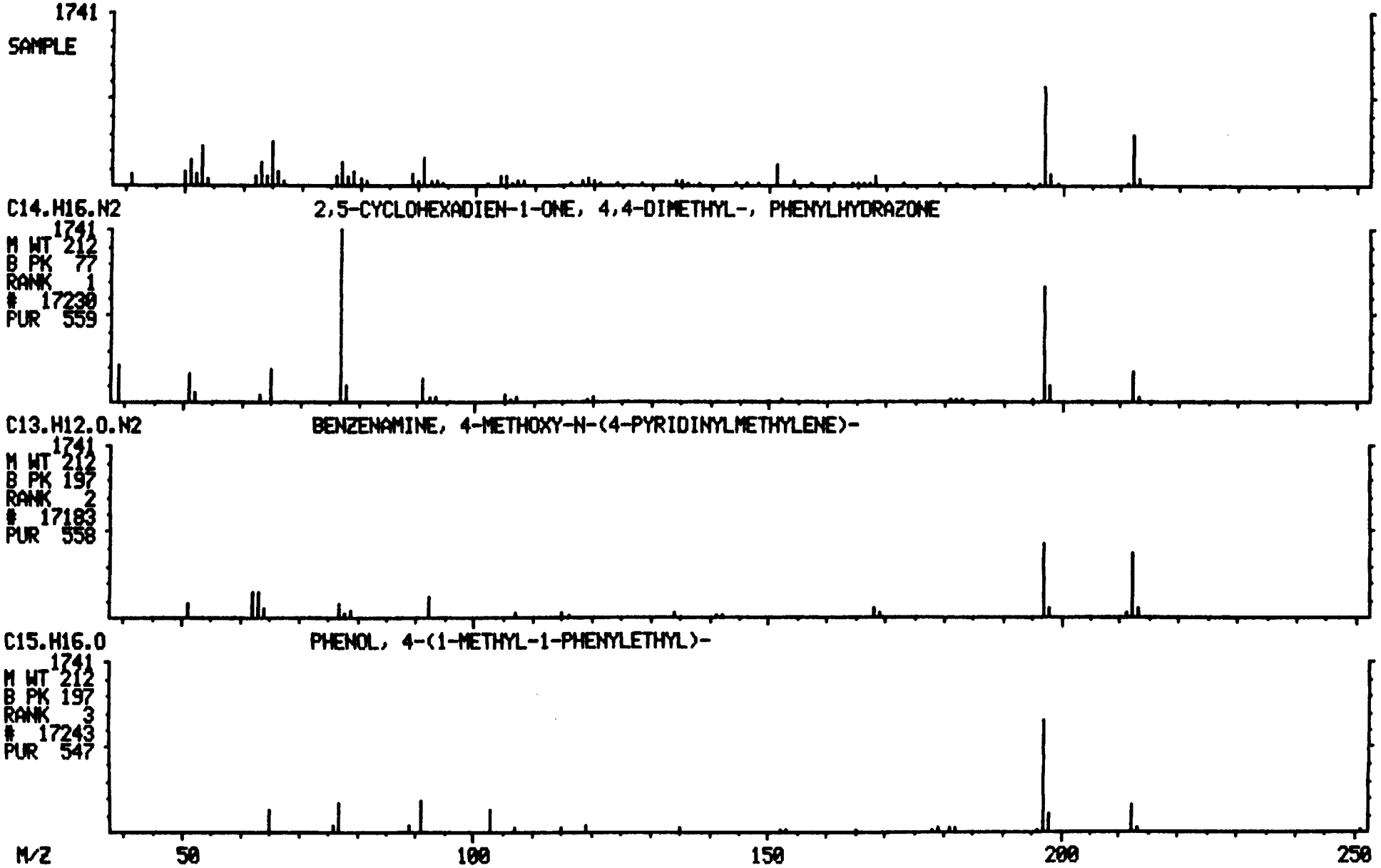
BASE M/Z: 180
RIC: 55679.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 22:48
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1368
CALI: EQ2600 # 2

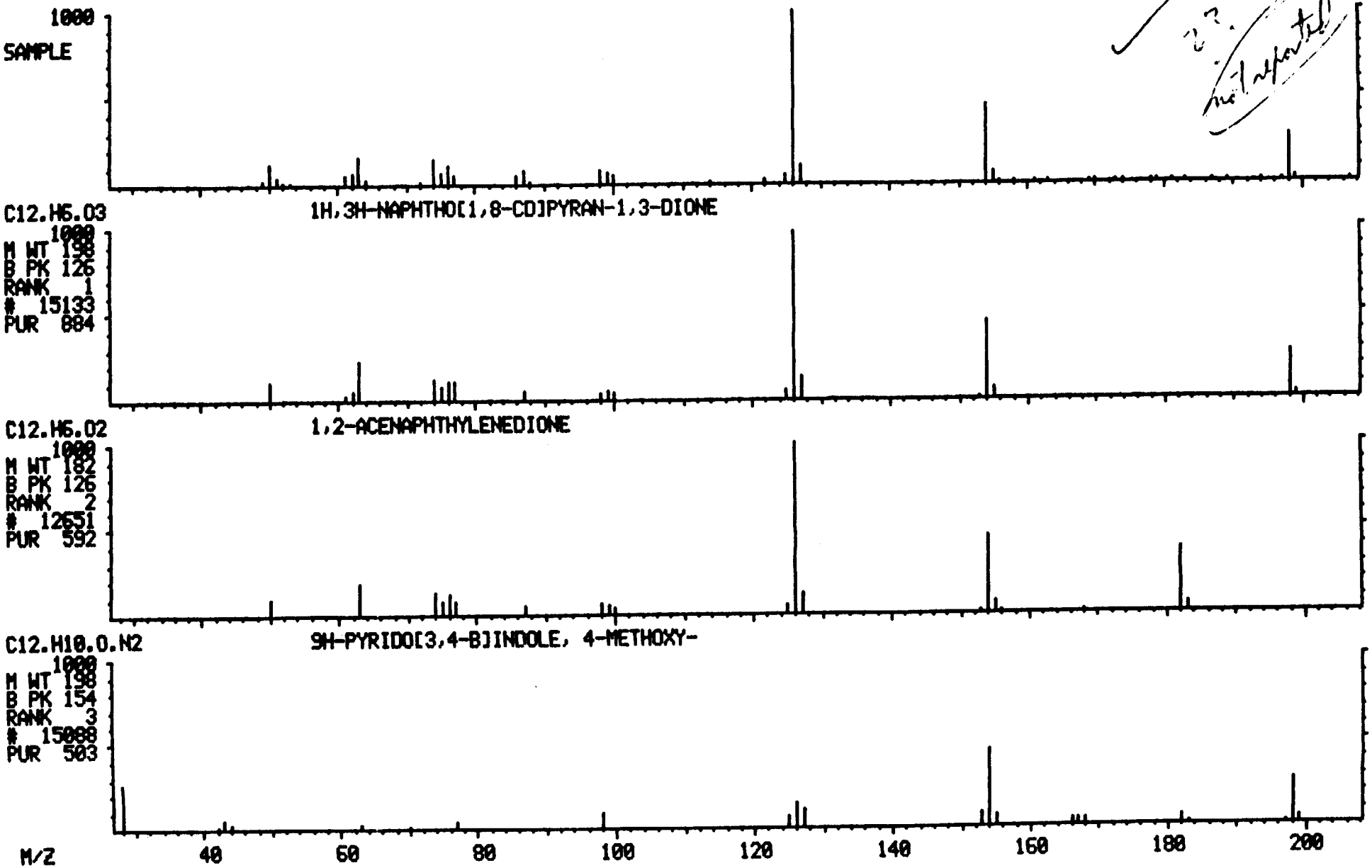
BASE M/Z: 197
RIC: 31263.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 24:08
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1448
CALI: EQ2600 # 2

BASE M/Z: 126
RIC: 28959.

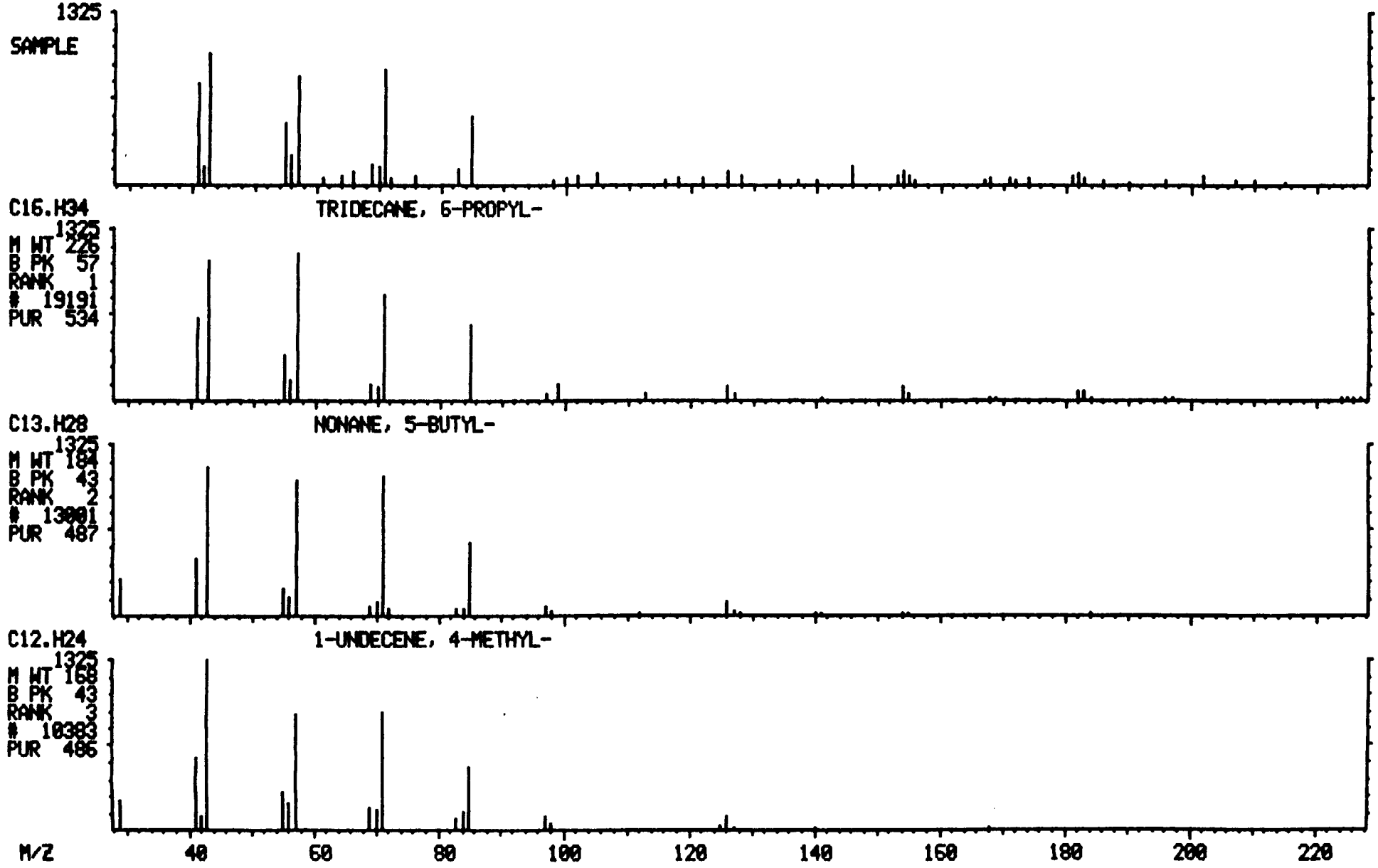


C-430

MID LIBRARY SEARCH
08/06/85 18:14:00 + 24:30
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1470
CALI: EQ260D # 2

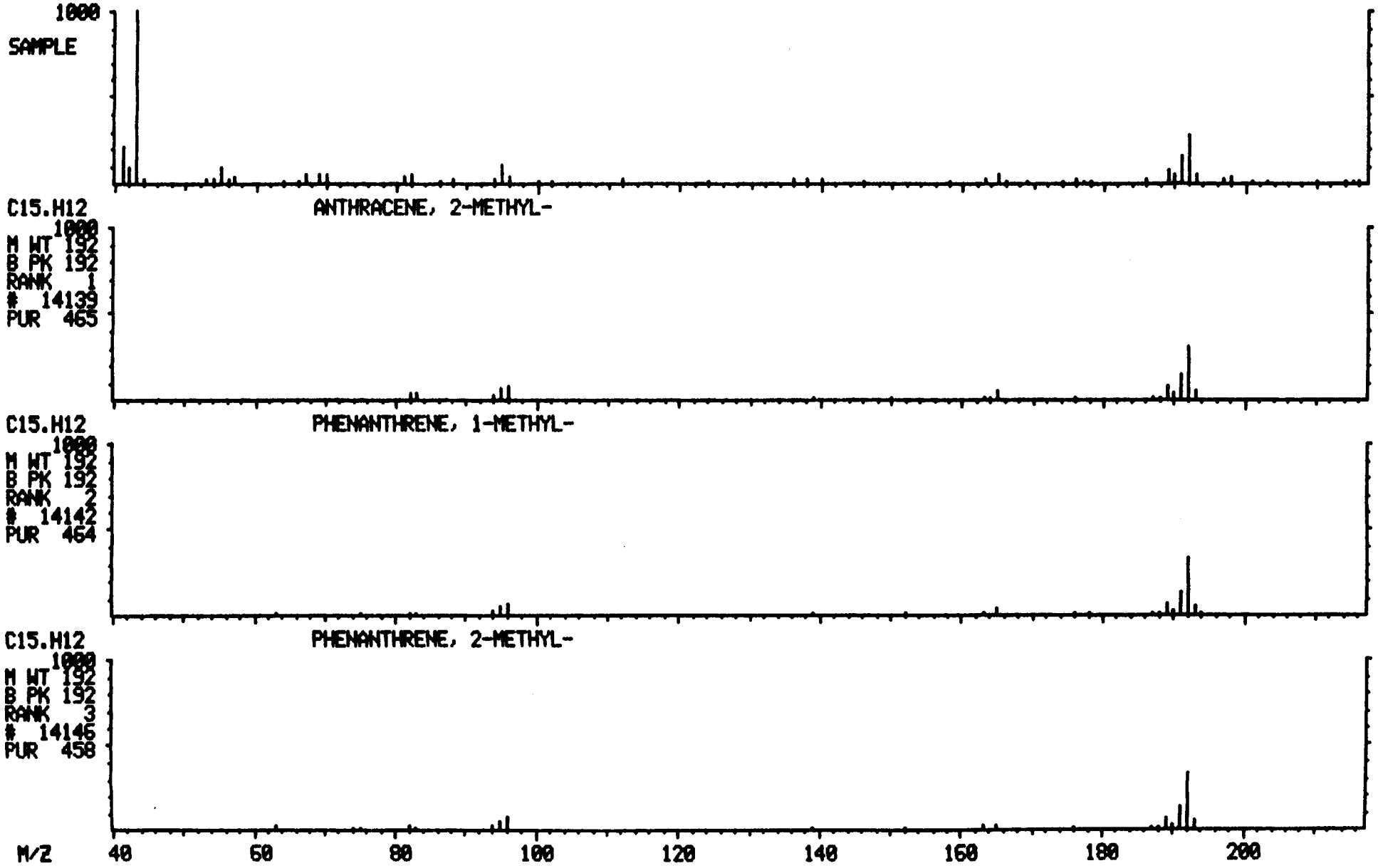
BASE M/Z: 43
RIC: 13695.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 24:41
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1481
CALI: EQ260D # 2

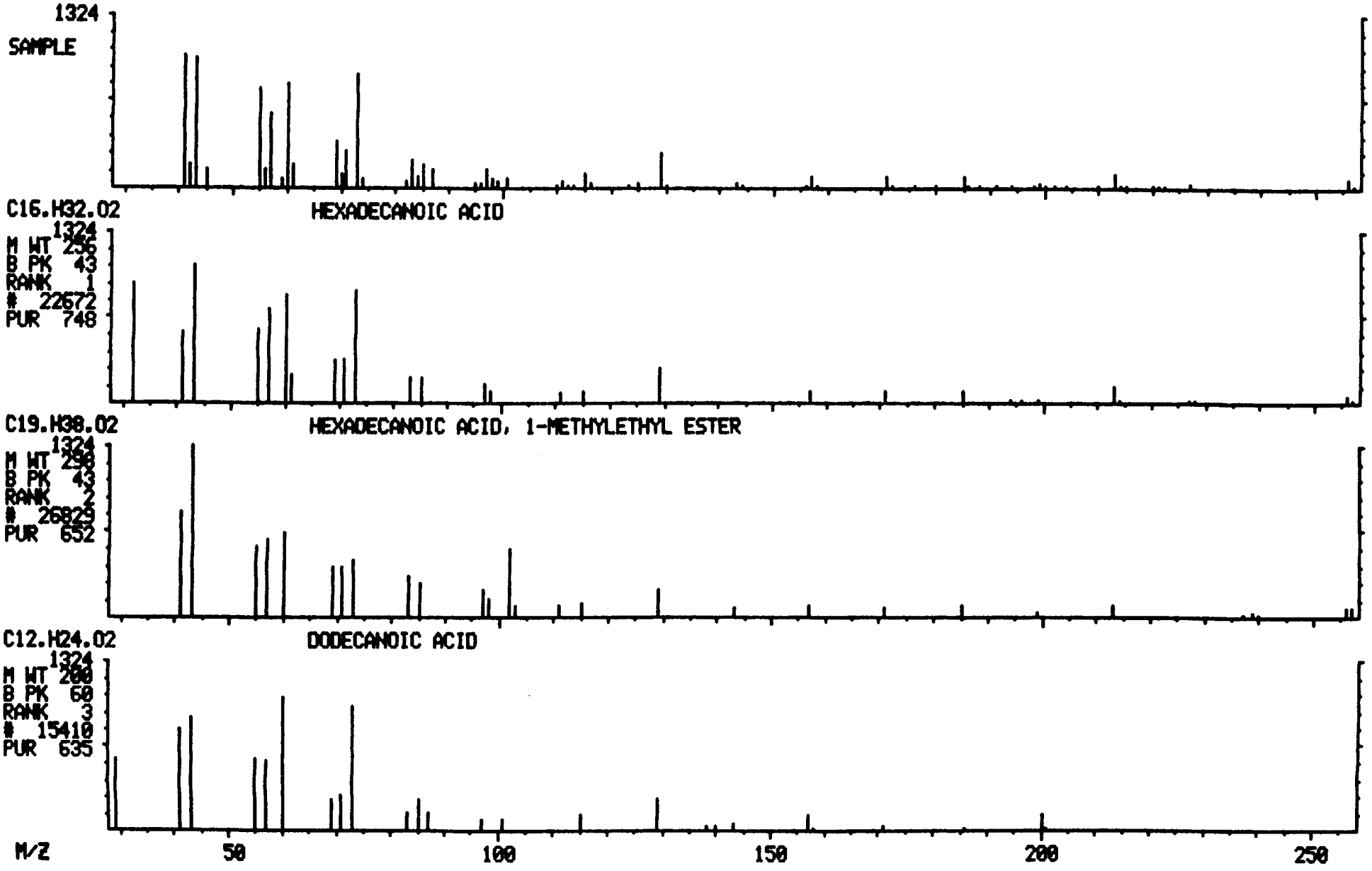
BASE M/Z: 43
RIC: 21855.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:00
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1500
CALI: EQ260D # 2

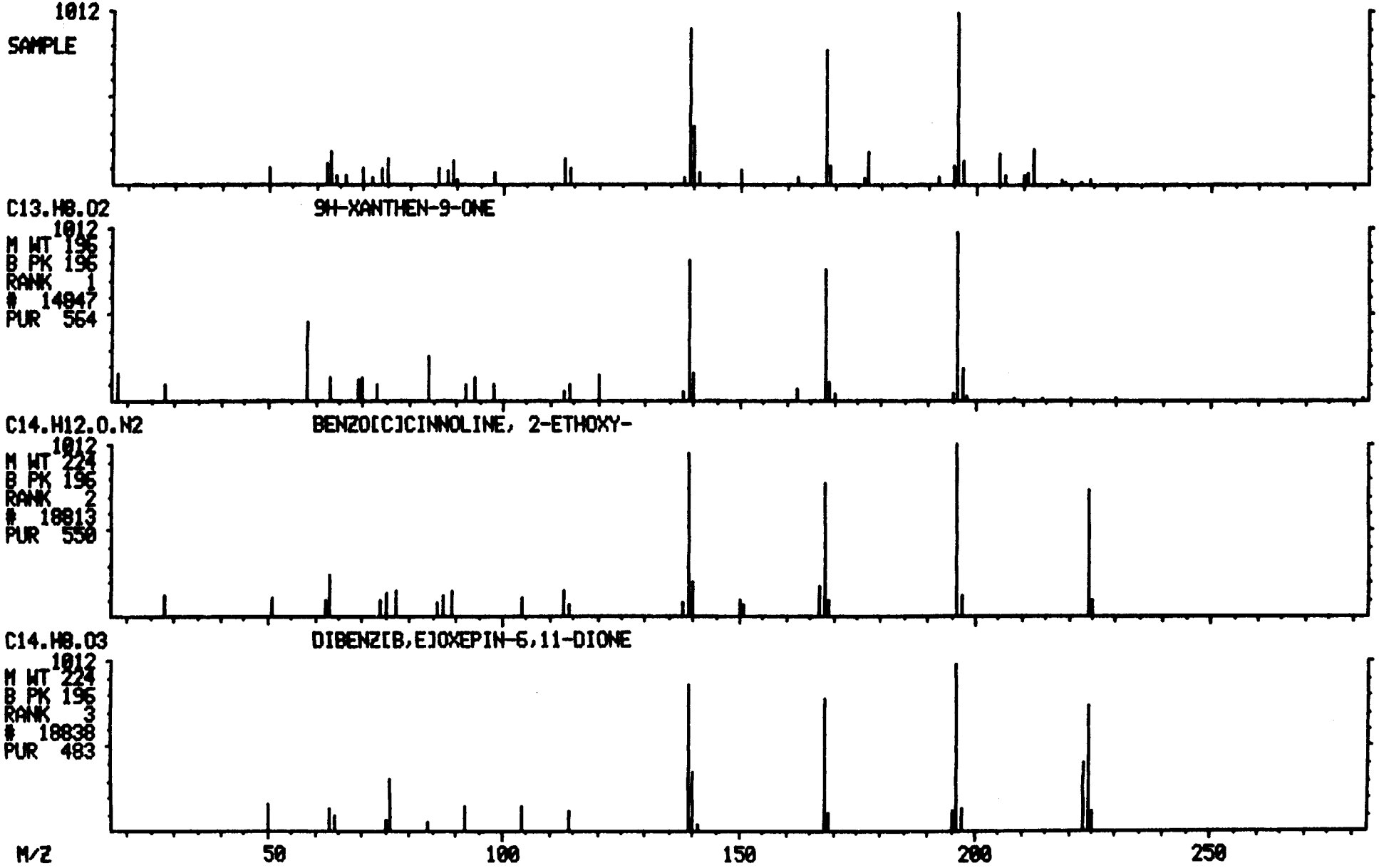
BASE M/Z: 41
RIC: 103295.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:06
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1506
CALI: EQ2600 # 2

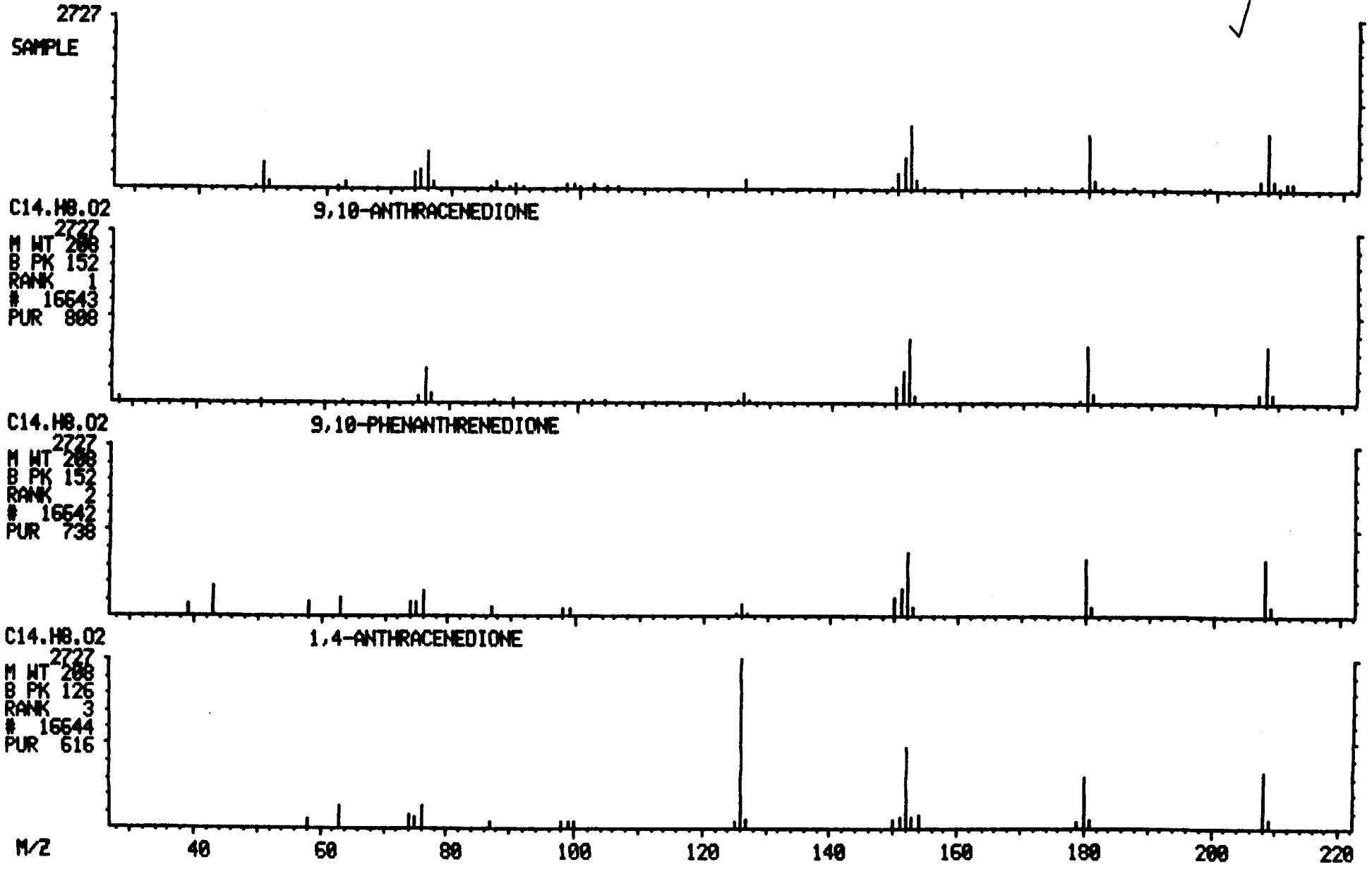
BASE M/Z: 196
RIC: 14207.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:13
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1513
CALI: EQ2600 # 2

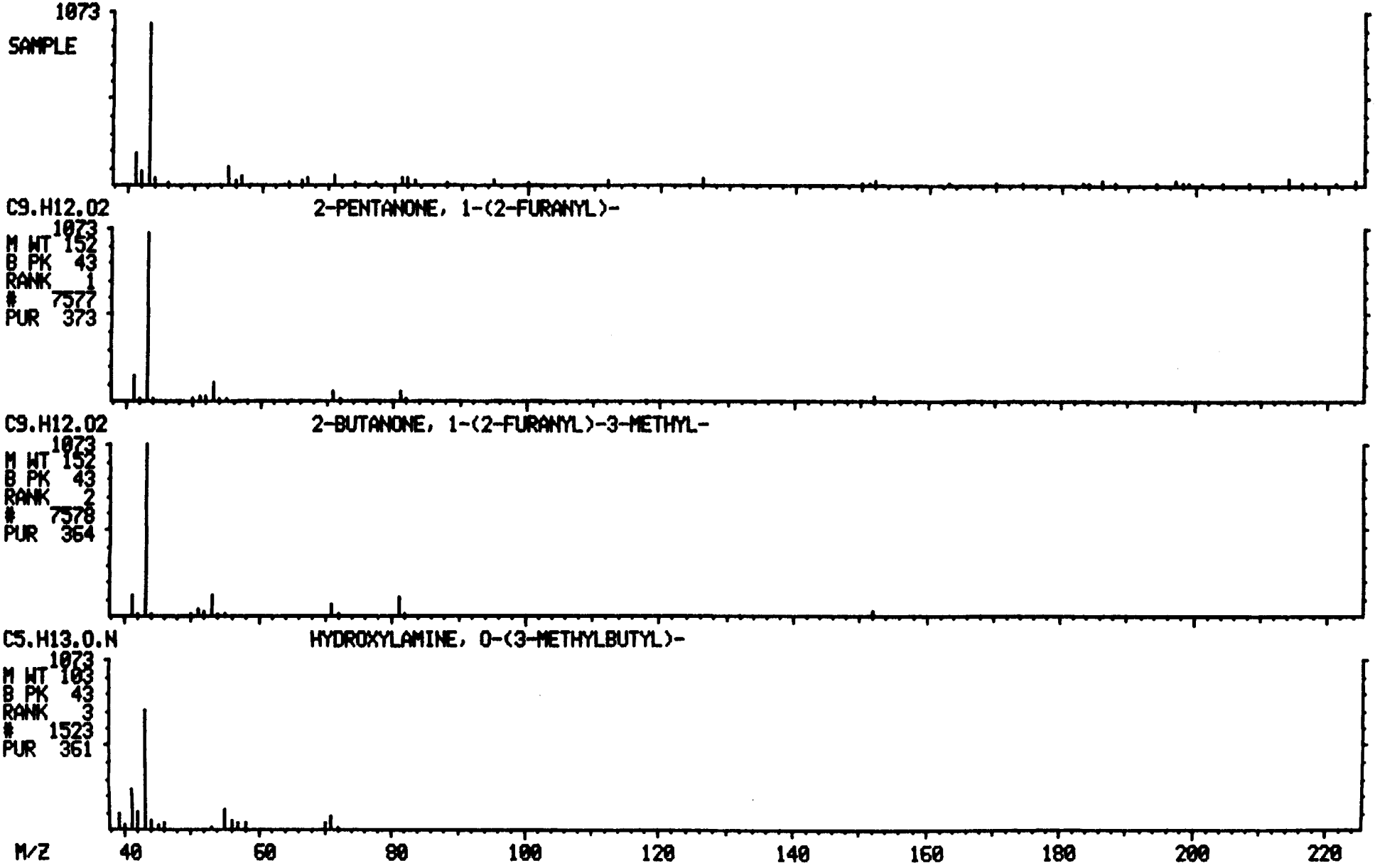
BASE M/Z: 152
RIC: 23231.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:22
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1522
CALI: EQ2600 # 2

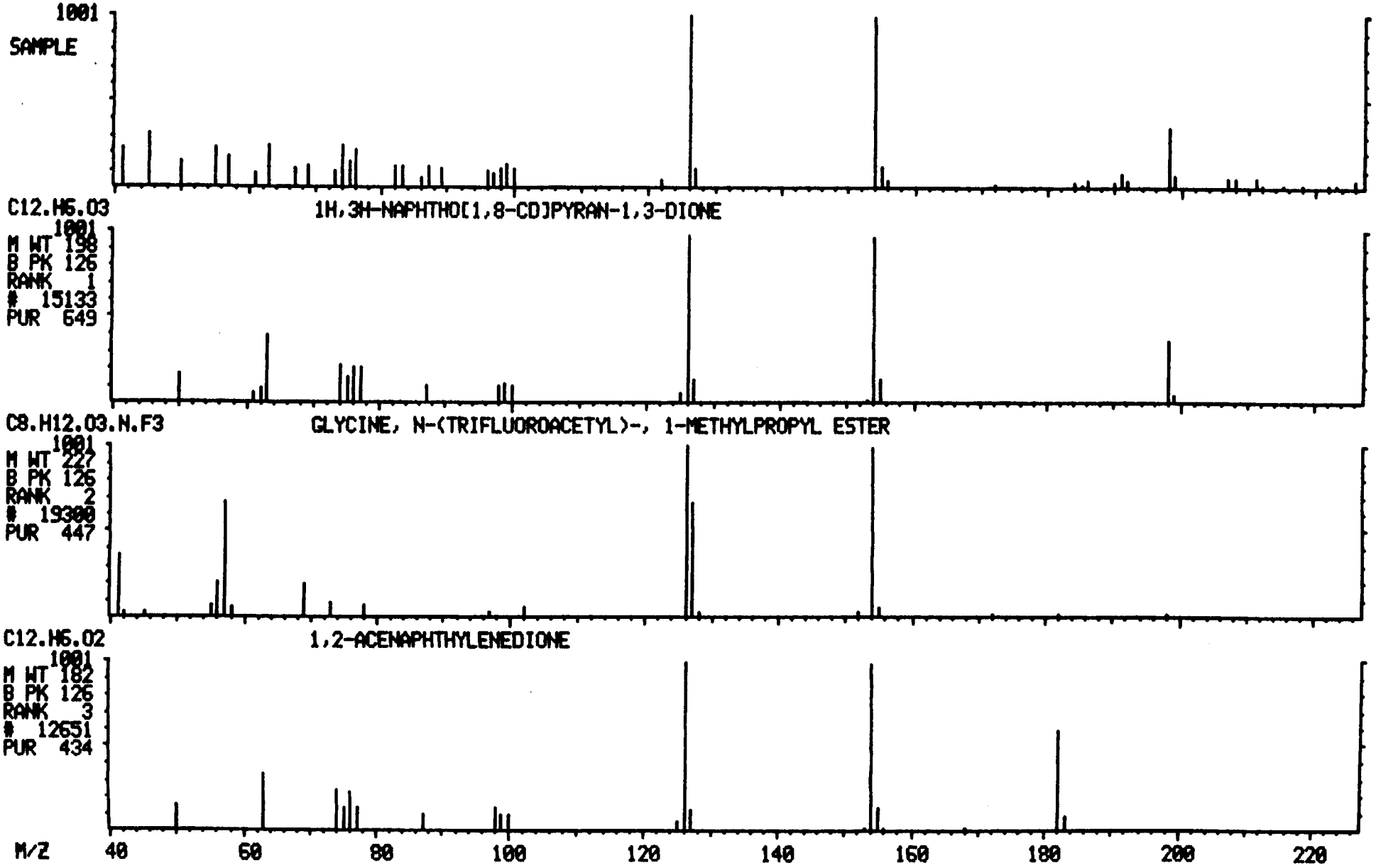
BASE M/Z: 43
RIC: 13967.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:40
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1540
CALI: EQ2600 # 2

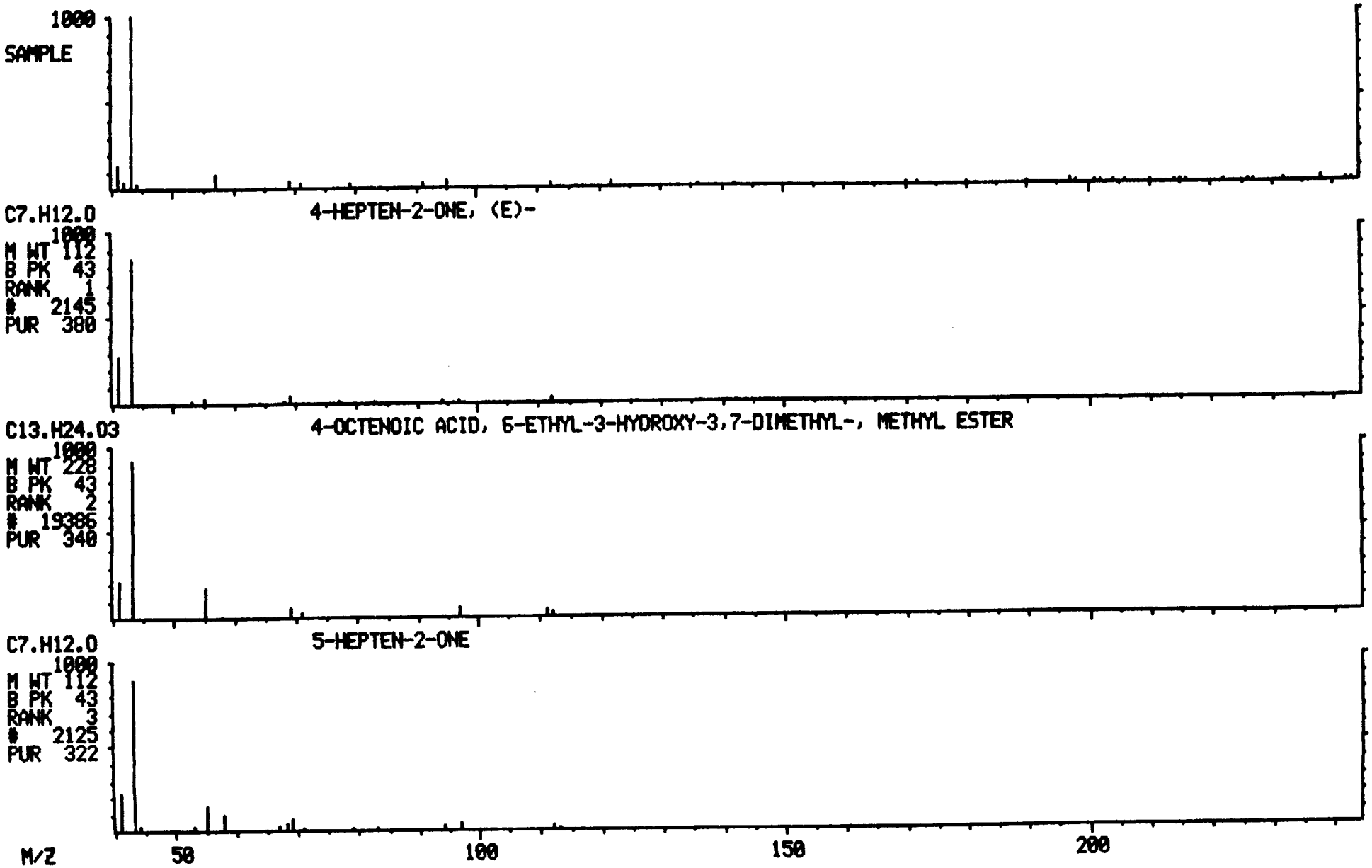
BASE M/Z: 126
RIC: 20895.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 25:56
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1556
CALI: EQ2600 # 2

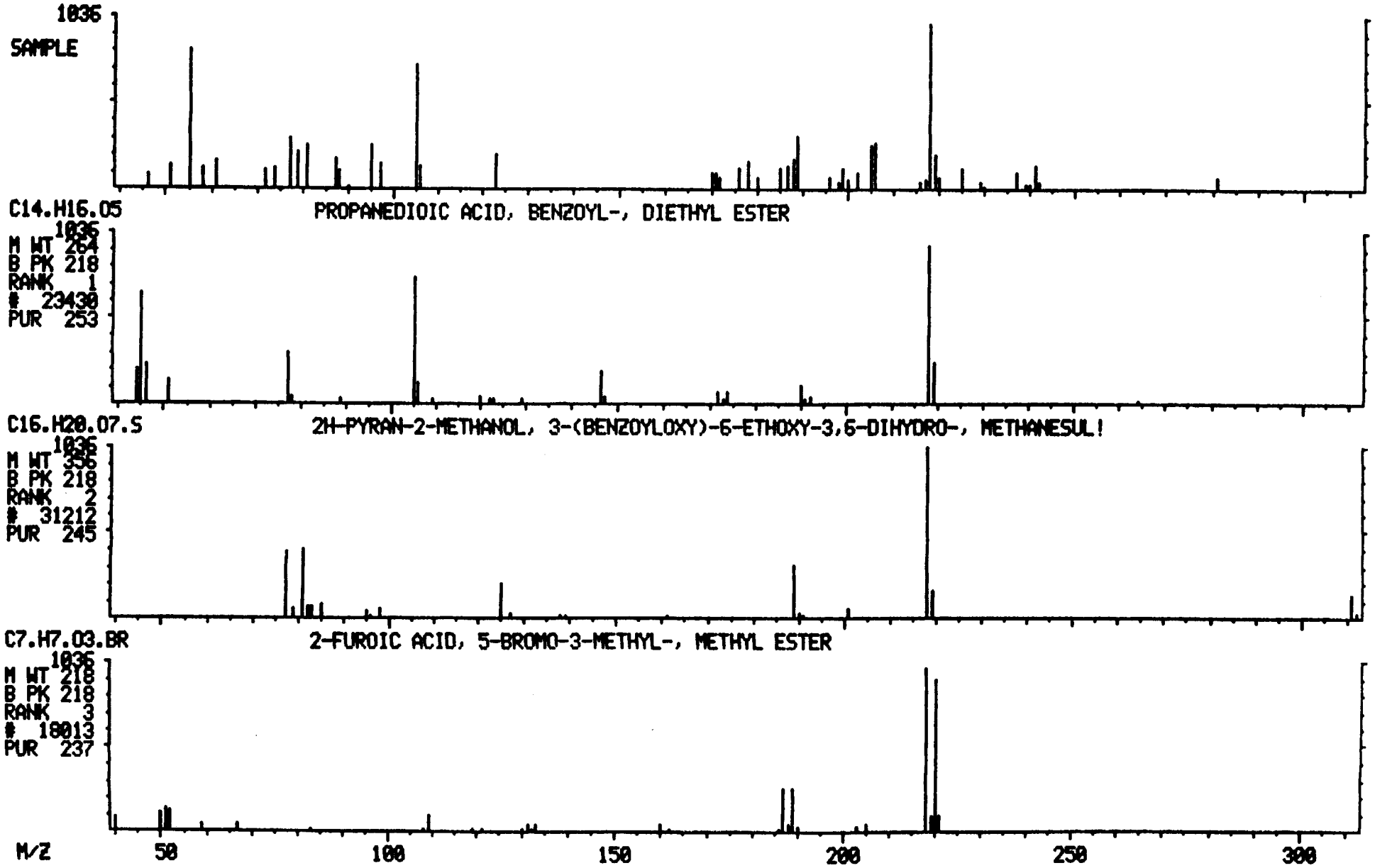
BASE M/Z: 43
RIC: 12687.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 26:07
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1567
CALI: EQ260D # 2

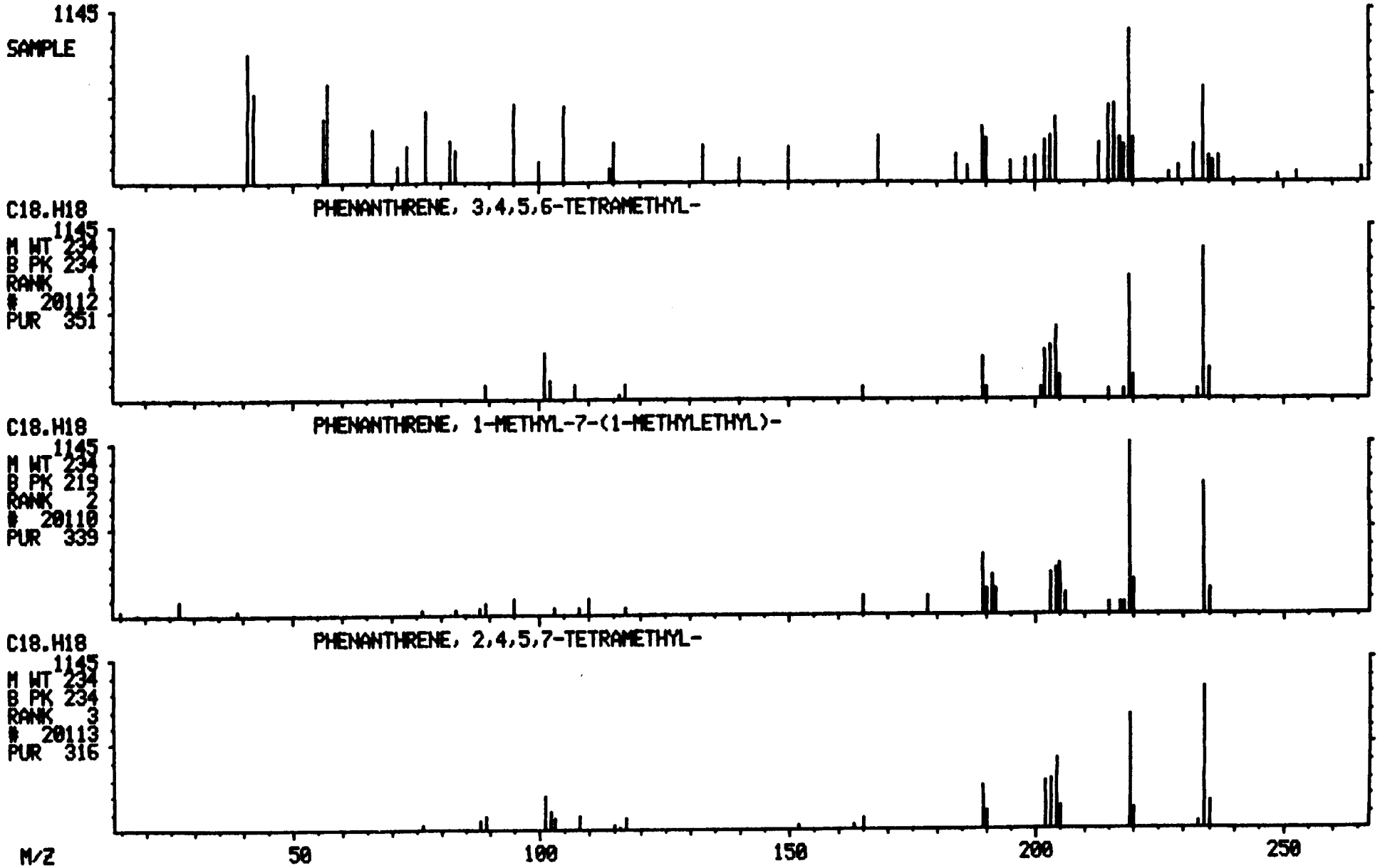
BASE M/Z: 218
RIC: 9215.

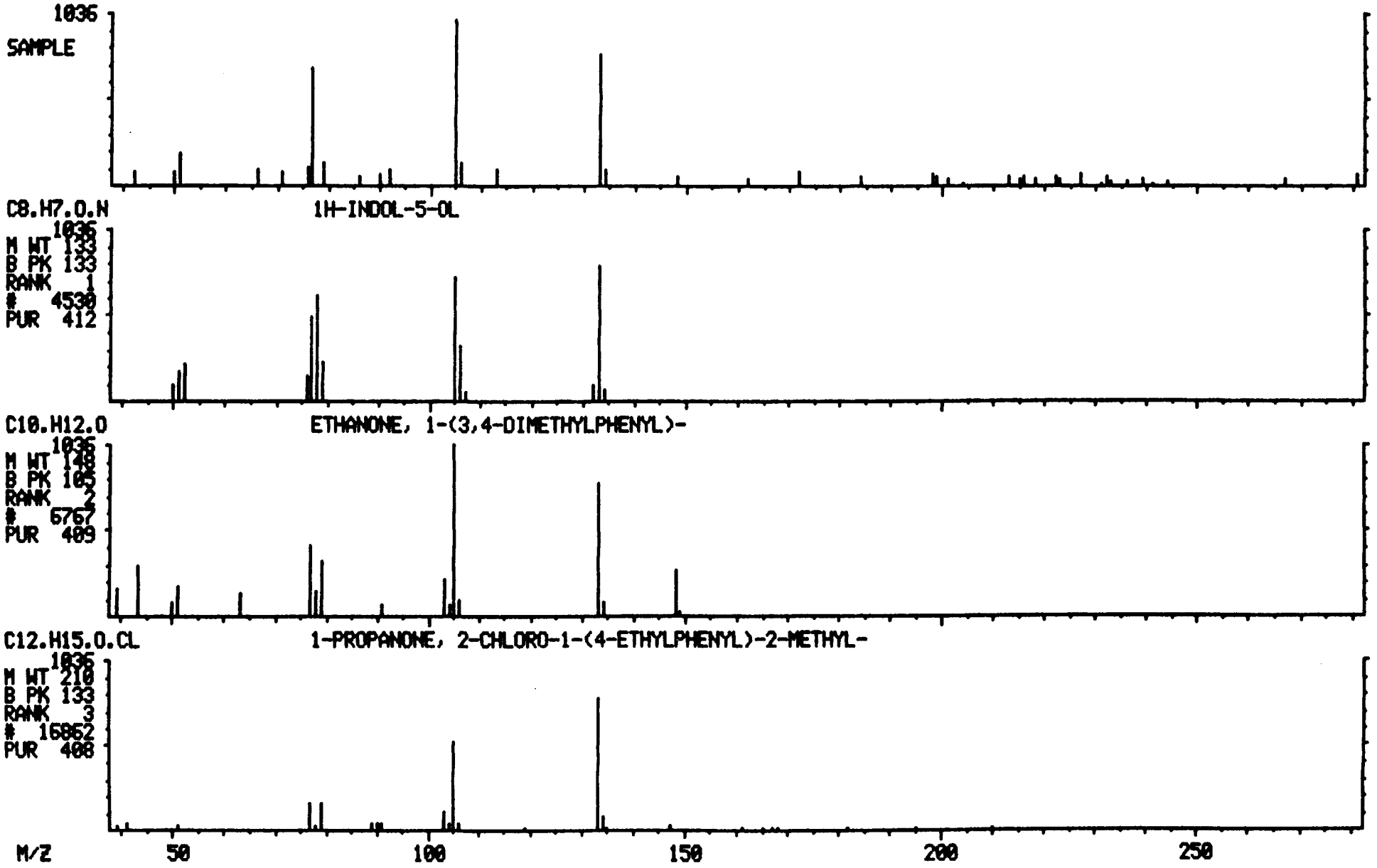


MID LIBRARY SEARCH
08/06/85 18:14:00 + 26:34
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1594
CALI: EQ2600 # 2

BASE M/Z: 219
RIC: 7367.

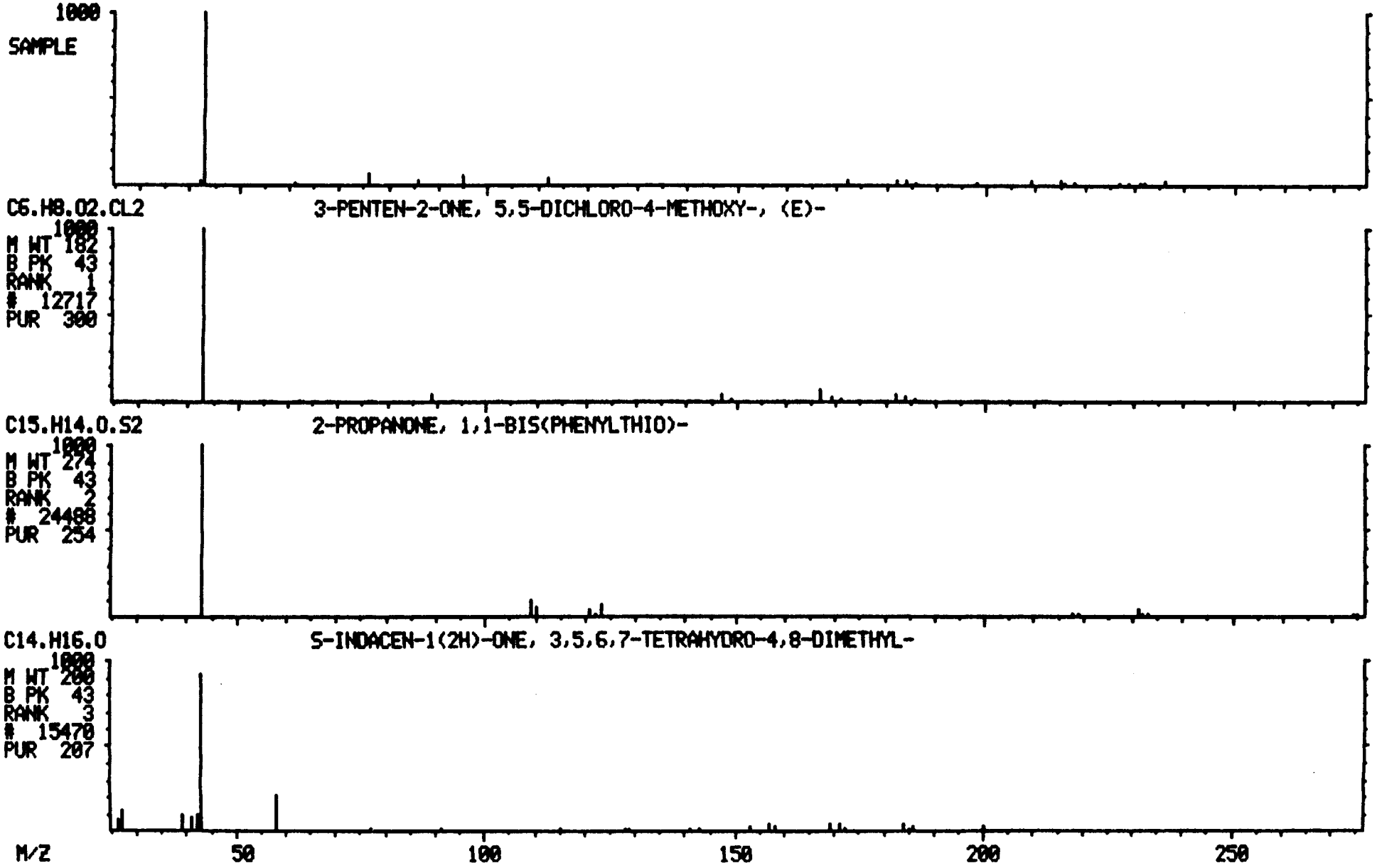



MID LIBRARY SEARCH
08/06/85 18:14:00 + 26:39
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ2600 #1599
CALI: EQ2600 # 2
BASE M/Z: 105
RIC: 6583.
1036
SAMPLE
C8.H7.O.N
1H-INDOL-5-OL
M WT 133
B PK 133
RANK 1
4530
PUR 412
C10.H12.O
ETHANONE, 1-(3,4-DIMETHYLPHENYL)-
M WT 148
B PK 105
RANK 2
6767
PUR 409
C12.H15.O.CL
1-PROPANONE, 2-CHLORO-1-(4-ETHYLPHENYL)-2-METHYL-
M WT 210
B PK 133
RANK 3
16862
PUR 408
M/Z
50
100
150
200
250

MID LIBRARY SEARCH
08/06/85 18:14:00 + 26:53
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ2600 #1613
CALI: EQ2600 # 2

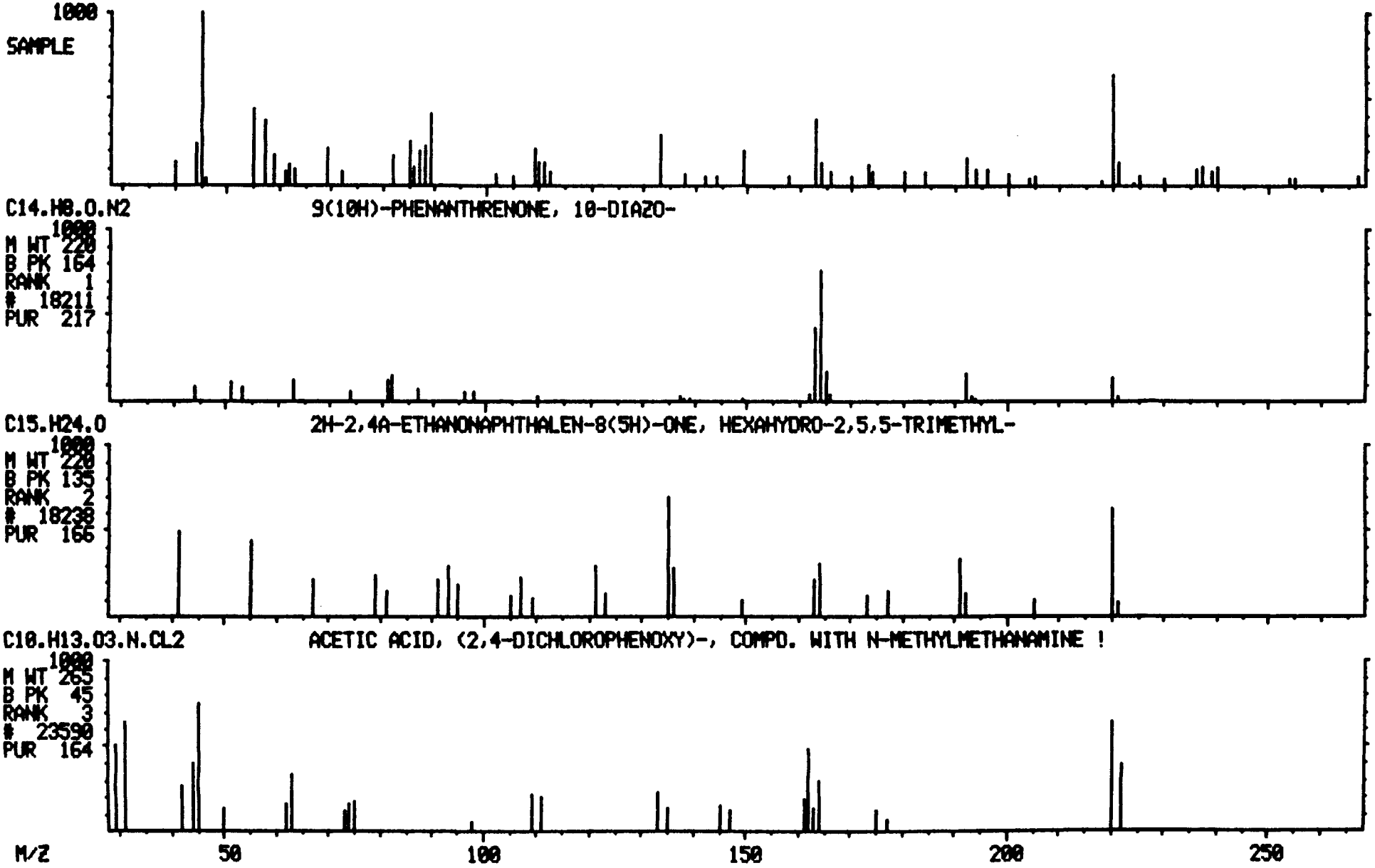
BASE M/Z: 43
RIC: 3803.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 26:59
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ260D #1619
CALI: EQ260D # 2

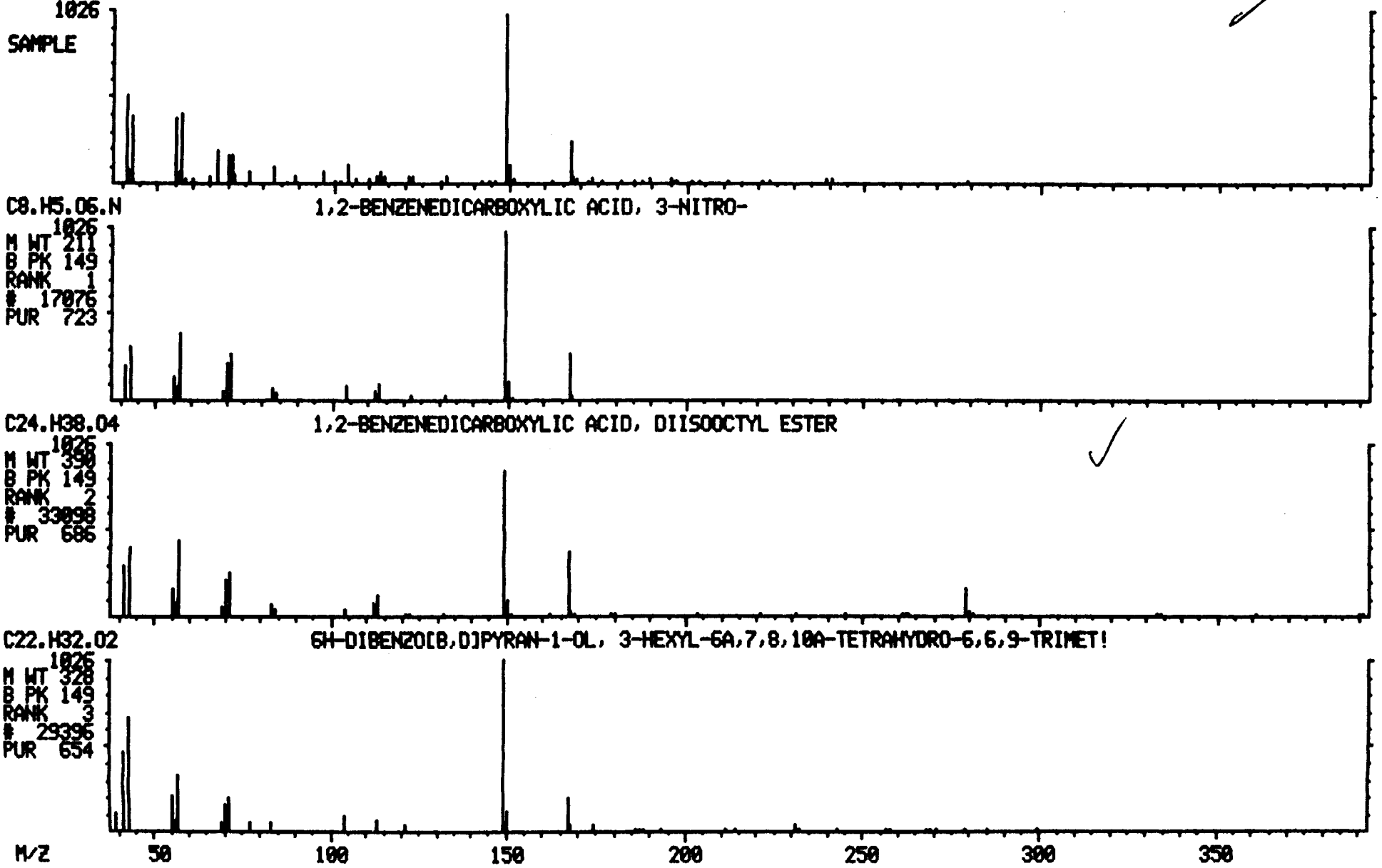
BASE M/Z: 45
RIC: 8991.



MID LIBRARY SEARCH
08/06/85 18:14:00 + 28:04
SAMPLE: Y159, 1 TO 10 DIL, TRAP IO-3
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

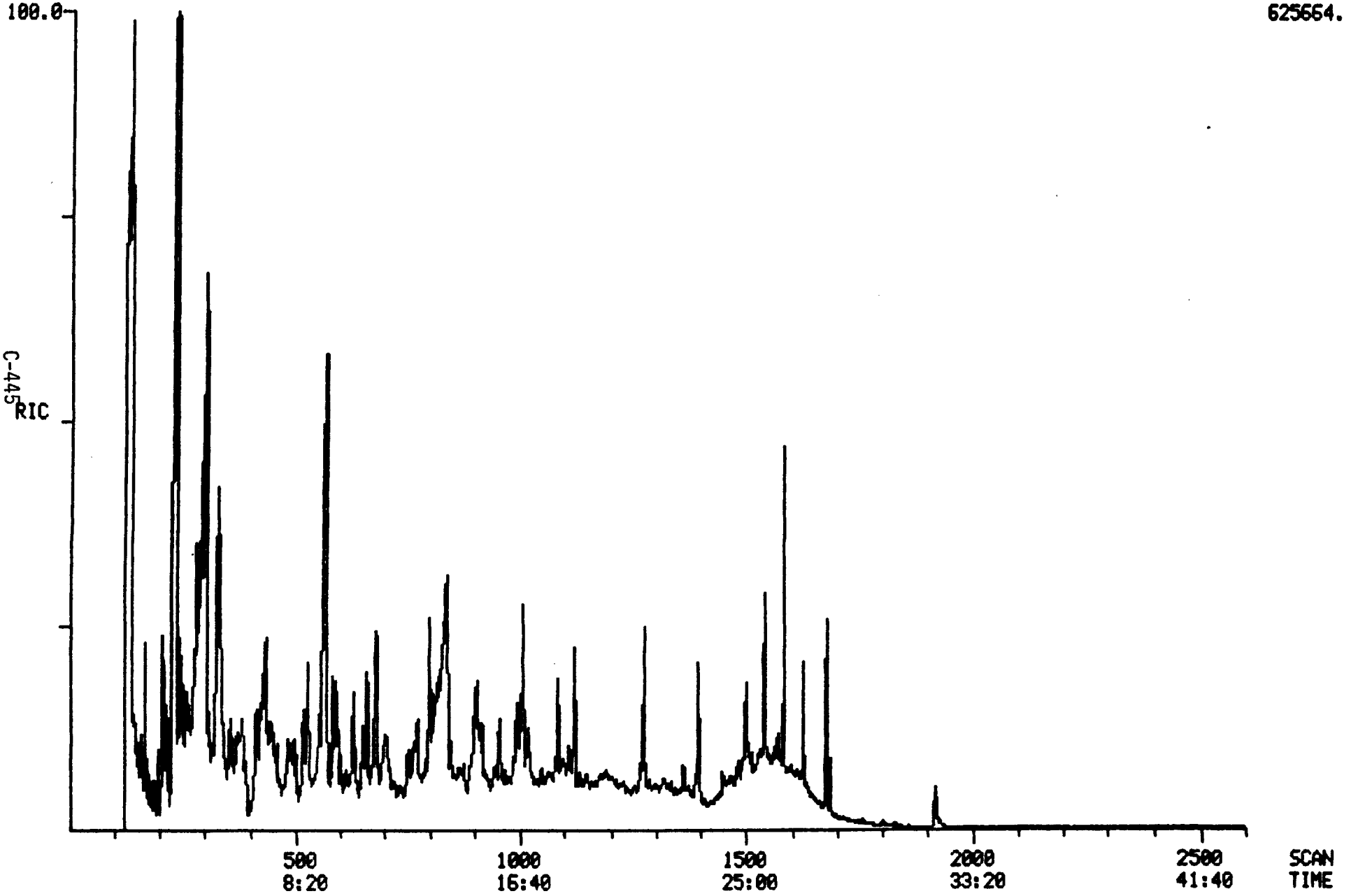
DATA: EQ2600 #1684
CALI: EQ2600 # 2

BASE M/Z: 149
RIC: 14703.



RIC
08/07/85 12:53:00
DATA: EQ275 #1
CALI: EQ275 #2
SCANS 1 TO 2600
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

RUN
BACK WATER



Quantitation Report File: EQ275

Data: EQ275.TI
08/07/85 12:53:00
Sample: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
Conds.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
Submitted by: EMB Analyst: MPL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

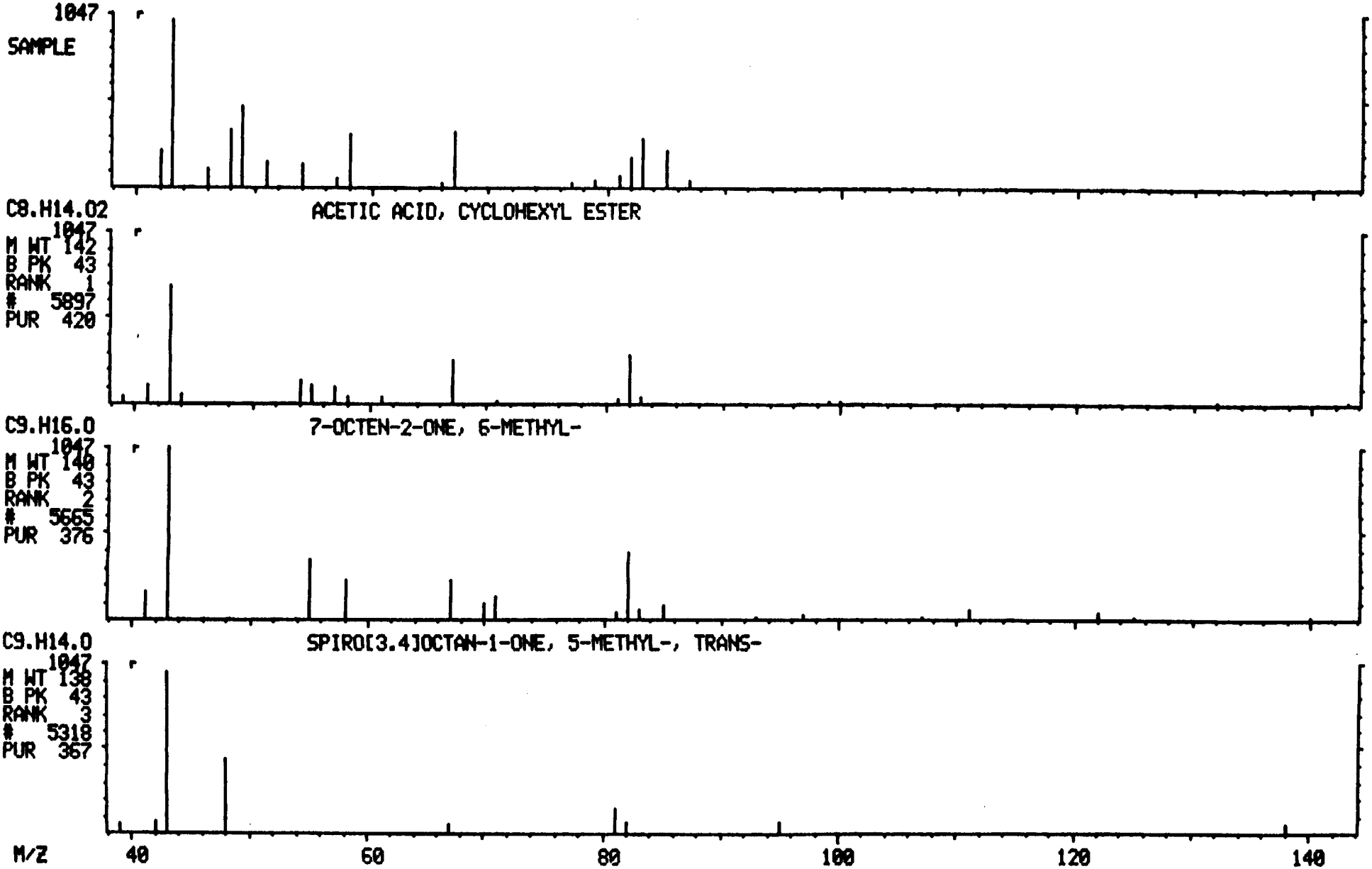
NO	NAME
1	IS #1: D4-1,4-DICHLOROBENZENE (152)
2	GC #1: 2-FLUOROPHENOL (112)
3	GC #2: D5-PHENOL (99)
4	GC #3: D5-NITROBENZENE (82)
5	N-NITROSODIMETHYLAMINE (74)
6	PHENOL (94) * $
7	BIS(2-CHLOROETHYL)ETHER (93)
8	2-METHYLPHENOL (108)
9	4-METHYLPHENOL (108)
10	N-NITROSO-DI-PROPYLAMINE (70) ** $
11	NITROBENZENE (77)
12	IS #2: D8-NAPHTHALENE (136)
13	BIS(2-CHLOROETHOXY)METHANE (93)
14	IS #3: D10-ACENAPTHENE (164)
15	GC #4: 2-FLUOROBIPHENYL (172)
16	4-NITROPHENOL (65) ** $
17	2,6-DINITROTOLUENE (165)
18	IS #4: D10-PHENANTHRENE (188)
19	PHENANTHRENE (178)
20	IS #5: D12-CHRYSENE (240)
21	GC #6: D14-TERPHENYL (244)
22	BUTYLBENZYLPHTHALATE (149)
23	BIS(2-ETHYLHEXYL)PHTHALATE (149)
24	IS #6: D12-PERYLENE (264)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1 1	152	582	9:42	1	1.000	A BB	45915.	80.000 PPB	2.51
2 2	112	413	6:53	1	0.710	A BB	98367.	299.438 PPB	9.40
3 3	99	563	9:23	1	0.967	A BB	146549.	266.587 PPB	8.37
4 4	82	683	11:23	1	1.174	A BB	84317.	150.868 PPB	4.74
5 5	74	248	4:08	1	0.426	A BB	7368.	14.332 PPB	0.45
5 6	94	567	9:27	1	0.974	A BB	1070460.	1134.220 PPB	35.61
6 7	93	561	9:21	1	0.964	A BB	10646.	11.737 PPB	0.37
11 8	108	653	10:53	1	1.122	A BB	13288.	20.751 PPB	0.65
12 9	108	680	11:20	1	1.168	A BB	125461.	202.679 PPB	6.36
6 10	70	683	11:23	1	1.174	A BV	20982.	36.038 PPB	1.13
11 11	77	680	11:20	1	1.168	A BB	51030.	54.329 PPB	1.71
19 12	136	800	13:20	12	1.000	A BV	174994.	80.000 PPB	2.51
6 13	93	732	12:32	12	0.940	A BB	3591.	3.043 PPB	0.10
33 14	164	1122	18:42	14	1.000	A BB	83933.	80.000 PPB	2.51
34 15	172	1006	16:46	14	0.897	A BB	150018.	142.799 PPB	4.49
79 16	65	1191	19:51	14	1.061	A BB	6389.	92.244 PPB	2.90
35 17	165	1122	18:42	14	1.000	A BB	4487.	116.027 PPB	3.64
41 18	188	1394	23:14	18	1.000	A BB	162233.	80.000 PPB	2.51
47 19	178	1398	23:18	18	1.003	A VB	6179.	2.835 PPB	0.09
51 20	240	1677	27:57	20	1.000	A BB	129939.	80.000 PPB	2.51
52 21	244	1583	26:23	20	0.944	A BB	157802.	138.750 PPB	4.27
54 22	149	1625	27:05	20	0.969	A BB	7338.	4.959 PPB	0.16
60 23	149	1686	28:06	20	1.005	A BB	32111.	16.738 PPB	0.53
58 24	264	1917	31:57	24	1.000	A BB	102122.	80.000 PPB	2.51

LIBRARY SEARCH
08/07/85 12:53:00 + 2:08
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 128
CALI: EQ275 # 2

BASE M/Z: 43
RIC: 100735.



LIBRARY SEARCH
08/07/85 12:53:00 + 2:16
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 136
CALI: EQ275 # 2

BASE M/Z: 84
RIC: 391167.

Solvent

1132
SAMPLE

C.H2.CL2 METHANE, DICHLORO-
1132
M WT 84
B PK 84
RANK 1
473
PUR 952

C4.H3.CL 1-BUTEN-3-YNE, 2-CHLORO-
1132
M WT 86
B PK 86
RANK 2
588
PUR 493

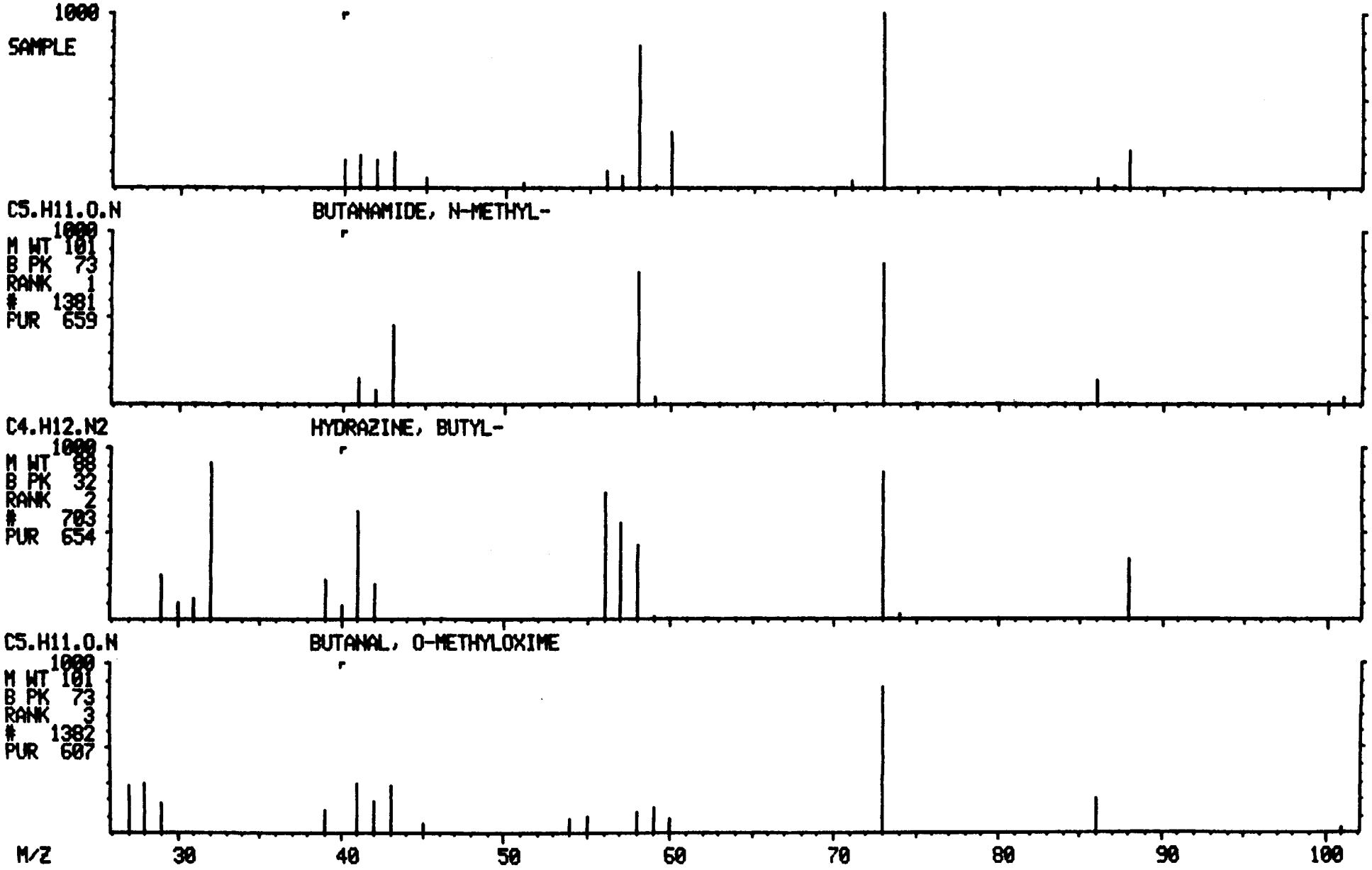
C15.H17.N.S PYRIDINE, 3-(TERT-BUTYLTHIO)-4-PHENYL-
1132
M WT 243
B PK 84
RANK 3
21169
PUR 490

M/Z 50 100 150 200

LIBRARY SEARCH
08/07/85 12:53:00 + 2:40
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 160
CALI: EQ275 # 2

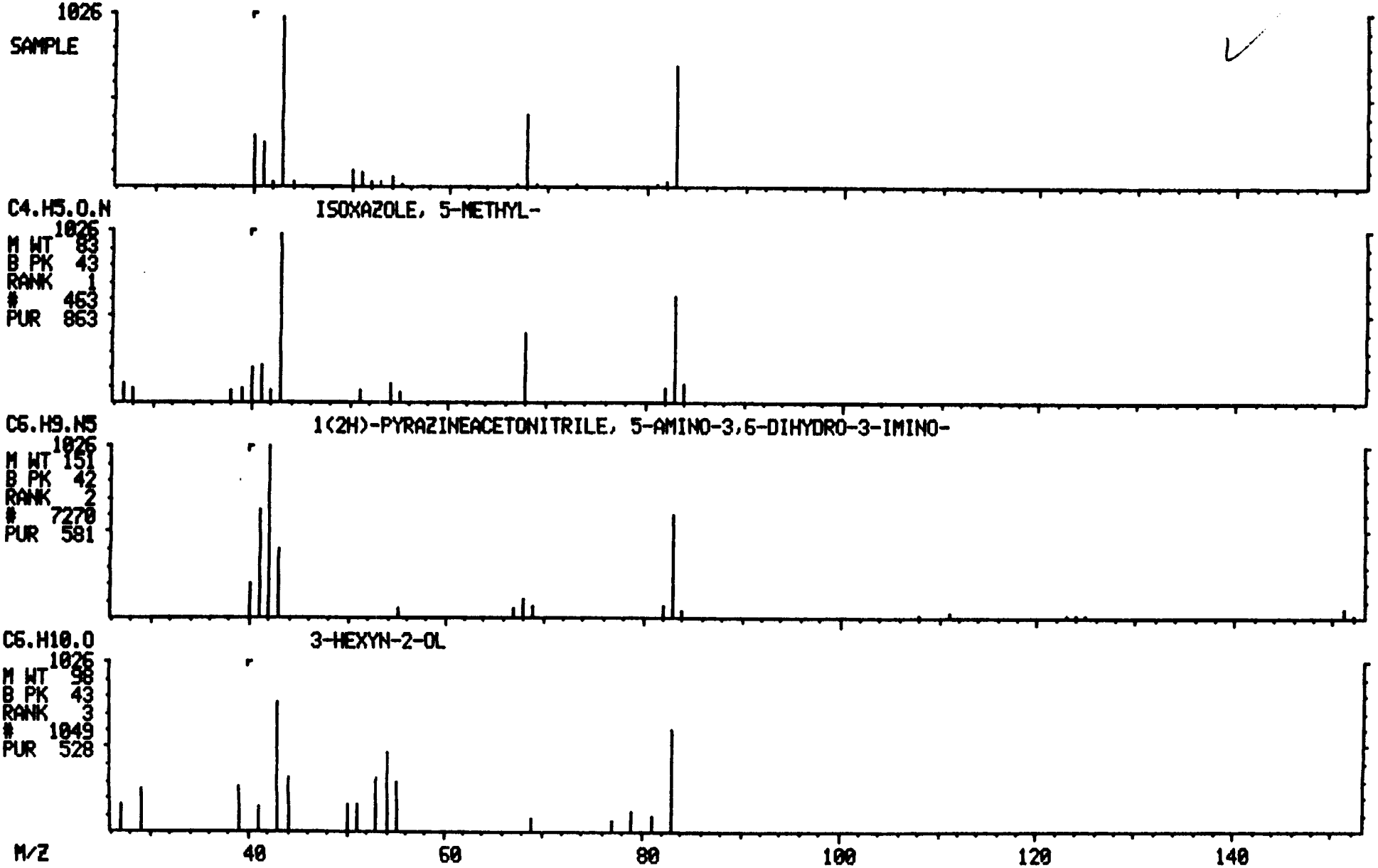
BASE M/Z: 73
RIC: 18879.



LIBRARY SEARCH
08/07/85 12:53:00 + 2:49
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 169
CALI: EQ275 # 2

BASE M/Z: 43
RIC: 59647.

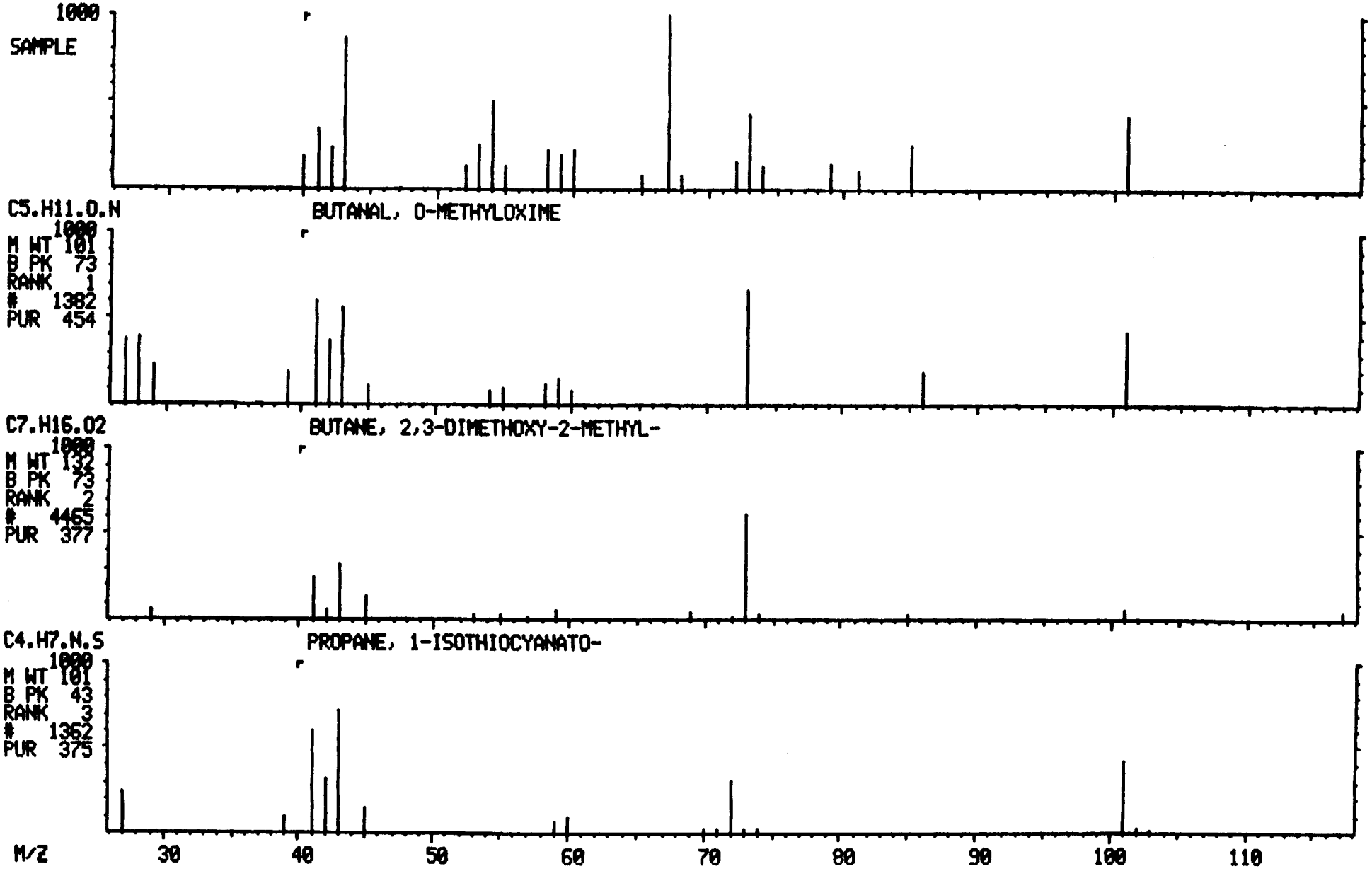


C-450

LIBRARY SEARCH
08/07/85 12:53:00 + 2:57
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 177
CALI: EQ275 # 2

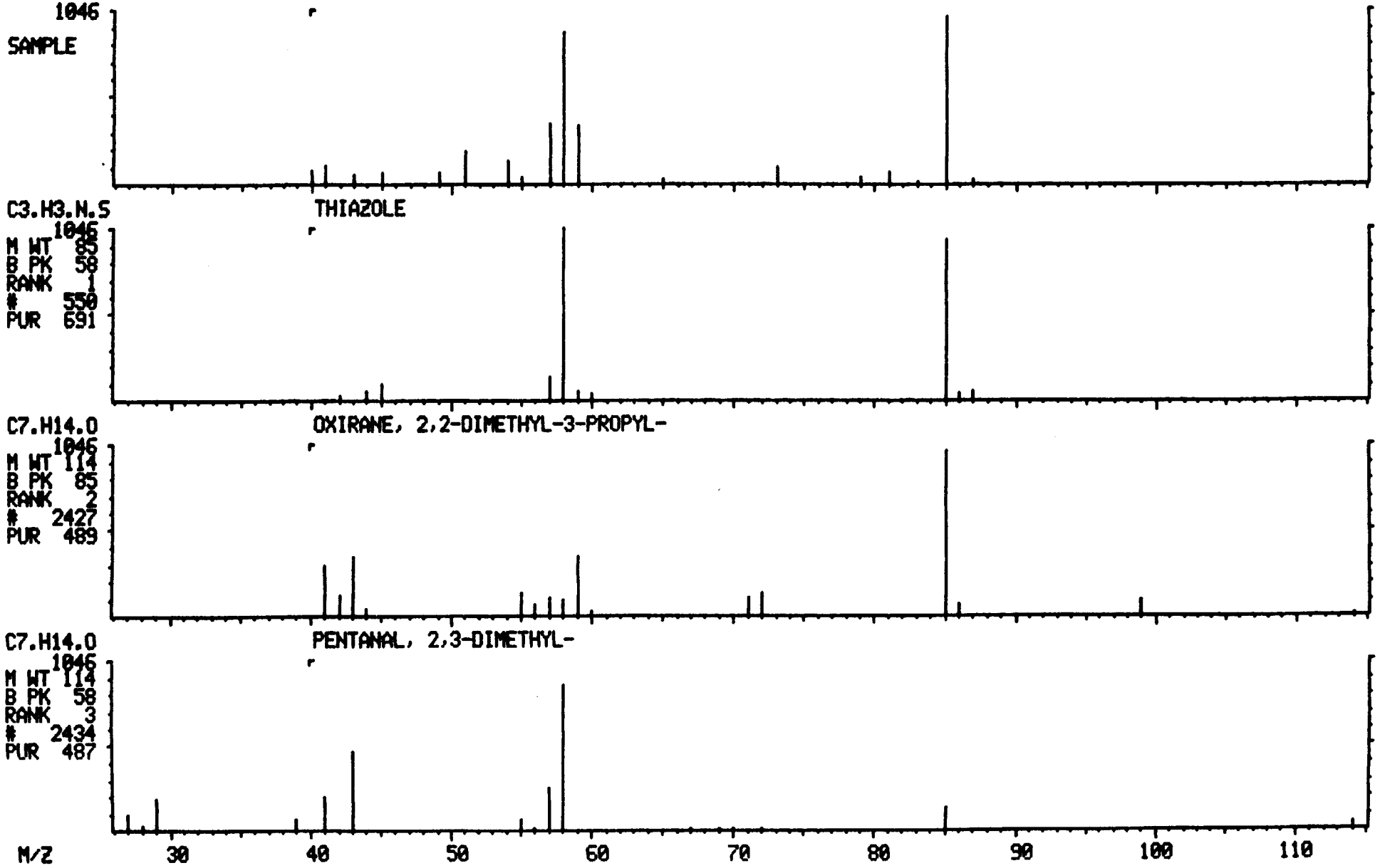
BASE M/Z: 67
RIC: 6815.



LIBRARY SEARCH
08/07/85 12:53:00 + 3:09
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 189
CALI: EQ275 # 2

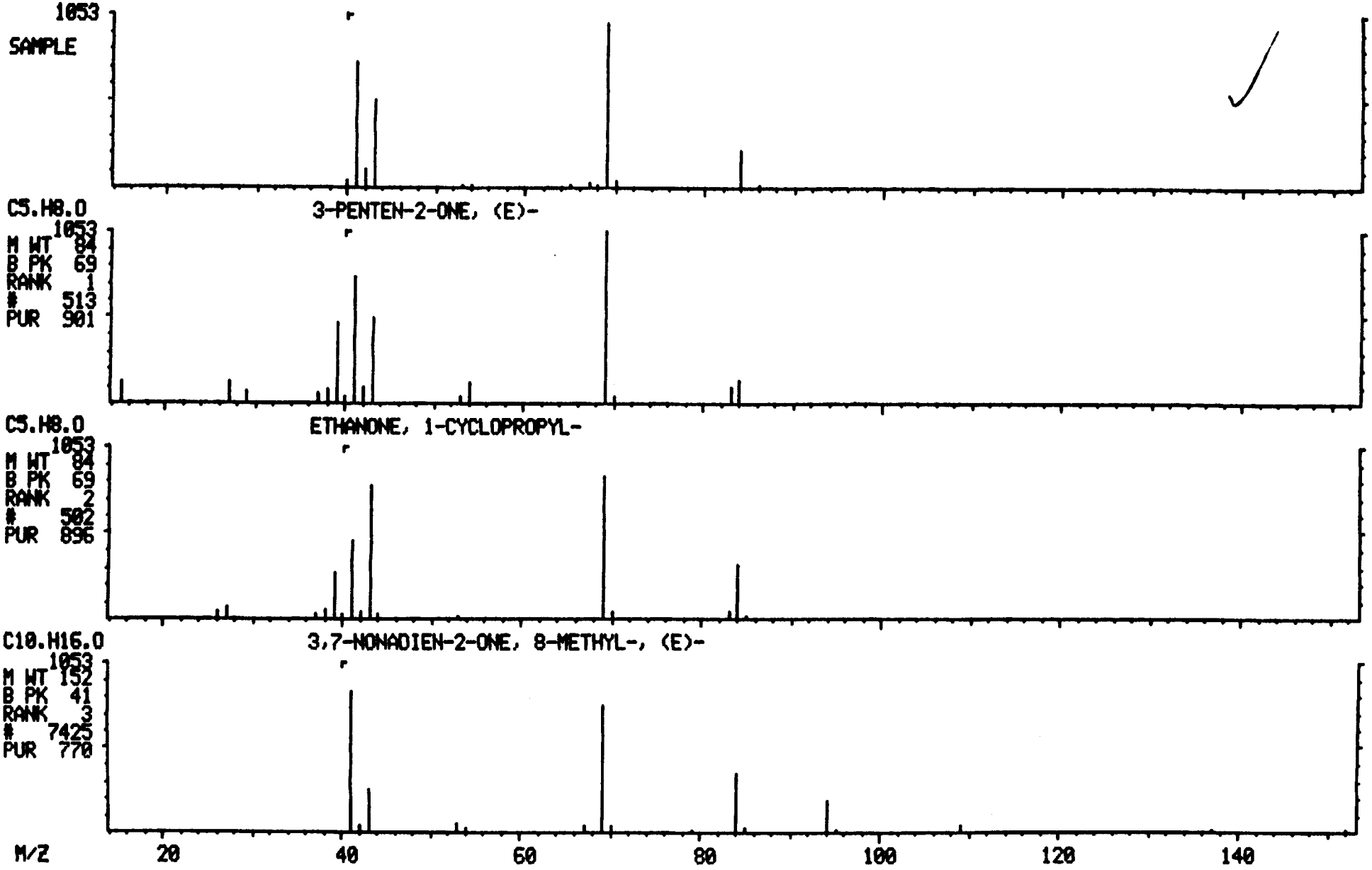
BASE M/Z: 85
RIC: 13727.



LIBRARY SEARCH
08/07/85 12:53:00 + 3:17
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 197
CALI: EQ275 # 2

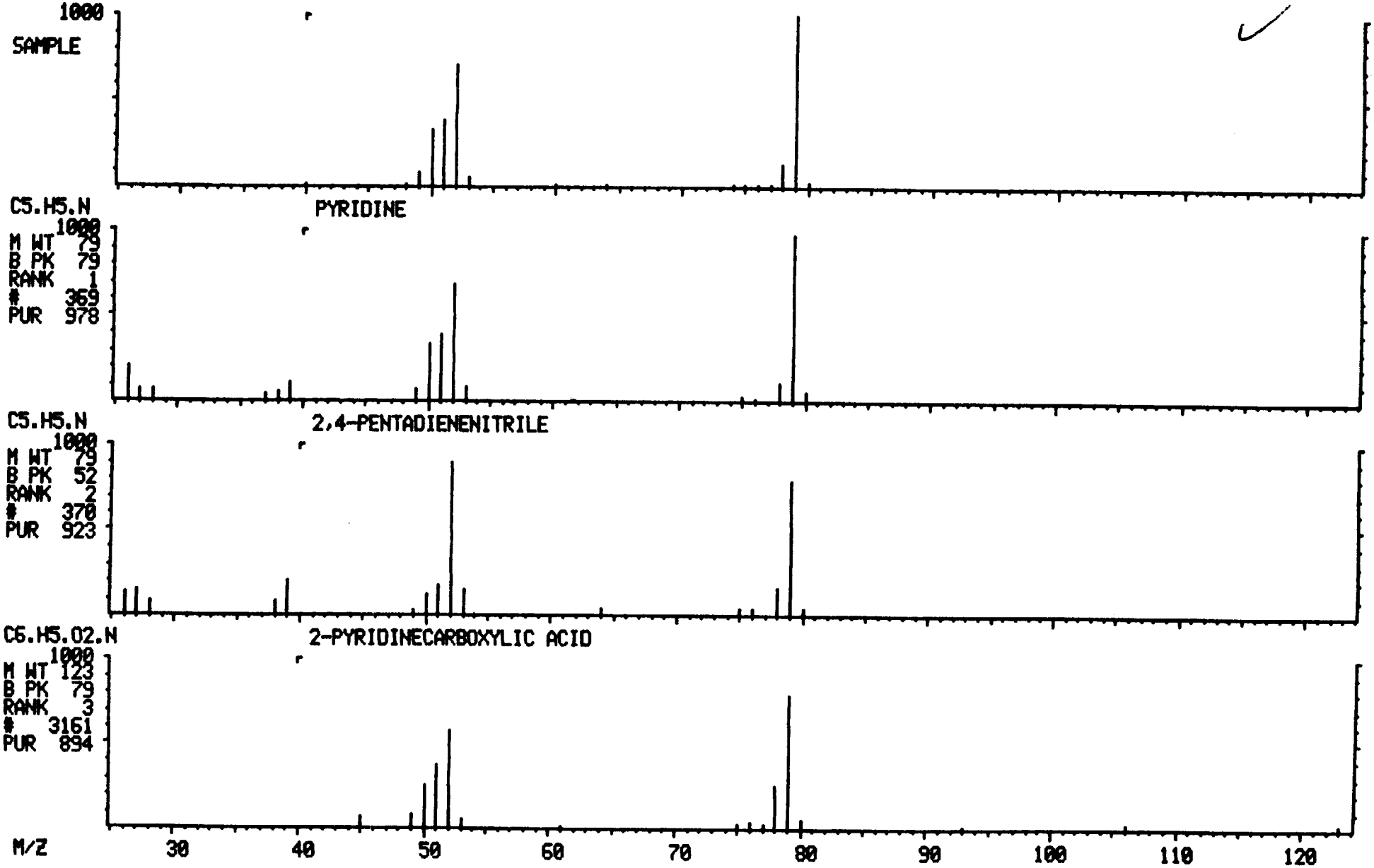
BASE M/Z: 69
RIC: 48639.



LIBRARY SEARCH
08/07/85 12:53:00 + 3:26
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 206
CALI: EQ275 # 2

BASE M/Z: 79
RIC: 85631.



LIBRARY SEARCH
08/07/85 12:53:00 + 3:34
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 214
CALI: EQ275 # 2

BASE M/Z: 80
RIC: 24063.

1246
SAMPLE

C8.H12.O2 3-CYCLOHEXEN-1-OL, ACETATE
1246
M WT 140
B PK 80
RANK 1
5556
PUR 479

C5.H7.N 1H-PYRROLE, 1-METHYL-
1246
M WT 81
B PK 81
RANK 2
408
PUR 423

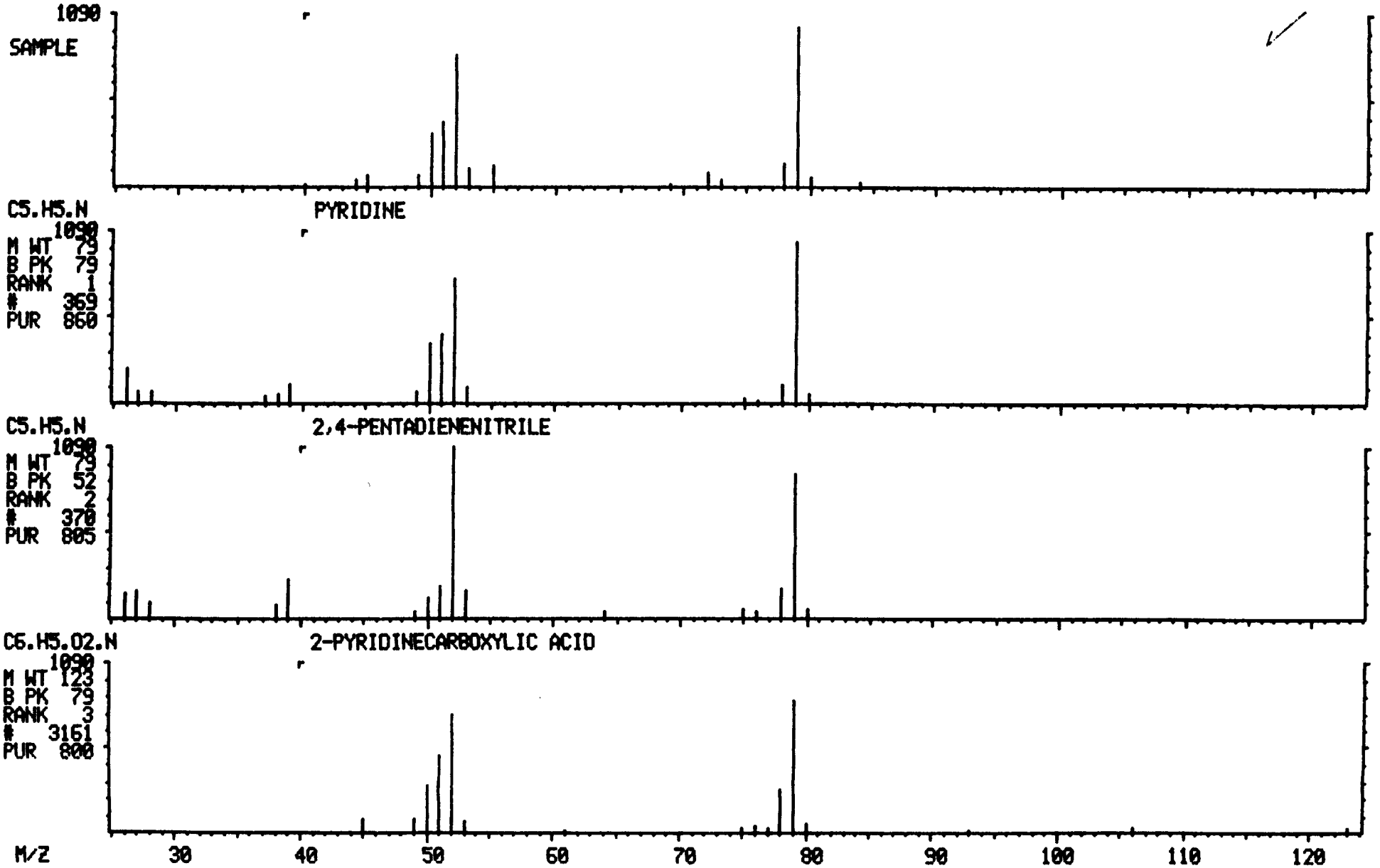
C6.H10.CL2 CYCLOHEXANE, 1,3-DICHLORO-, CIS-
1246
M WT 152
B PK 81
RANK 3
7497
PUR 338

M/Z 20 40 60 80 100 120 140

LIBRARY SEARCH
08/07/85 12:53:00 + 3:40
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 220
CALI: EQ275 # 2

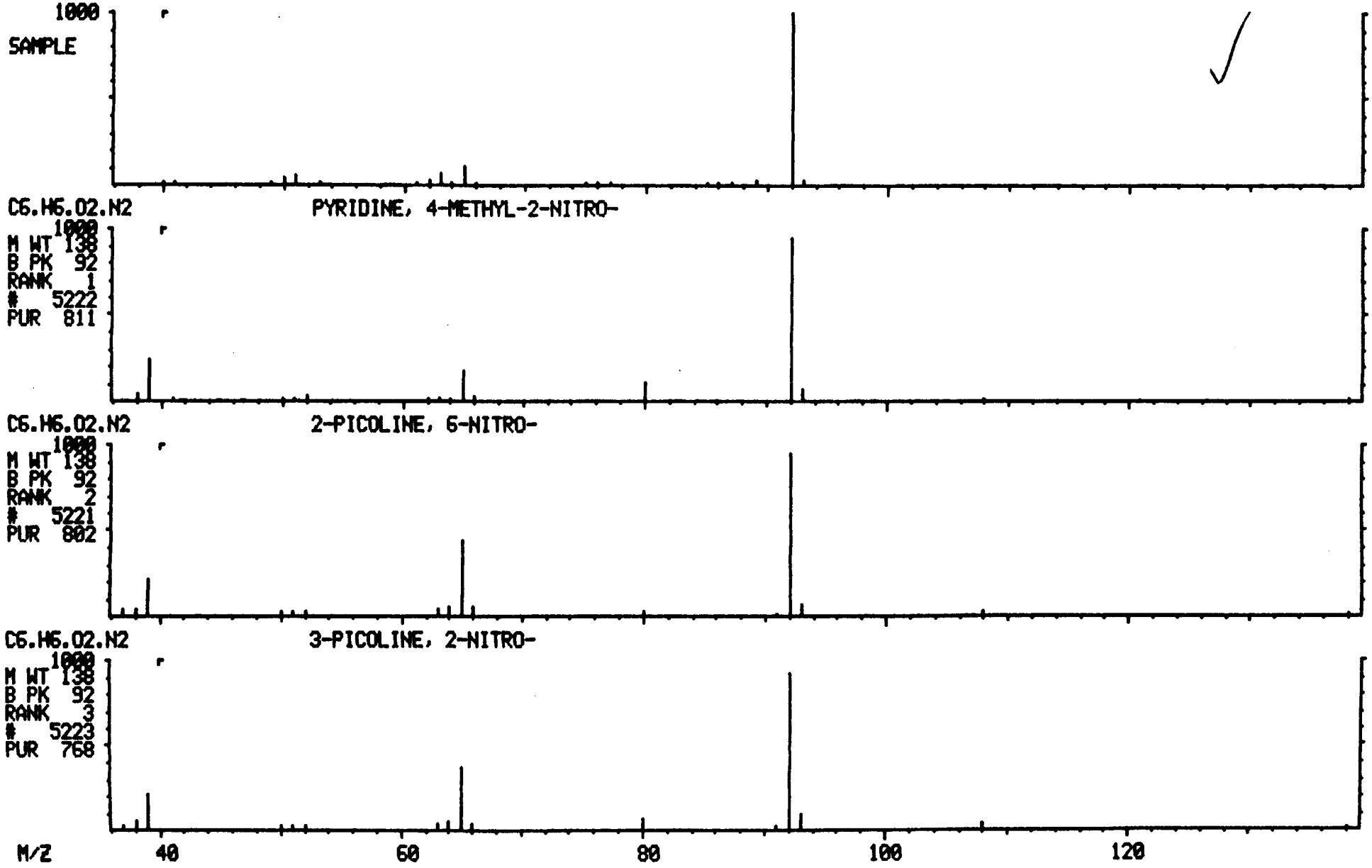
BASE M/Z: 79
RIC: 26463.



LIBRARY SEARCH
08/07/85 12:53:00 + 3:53
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 233
CALI: EQ275 # 2

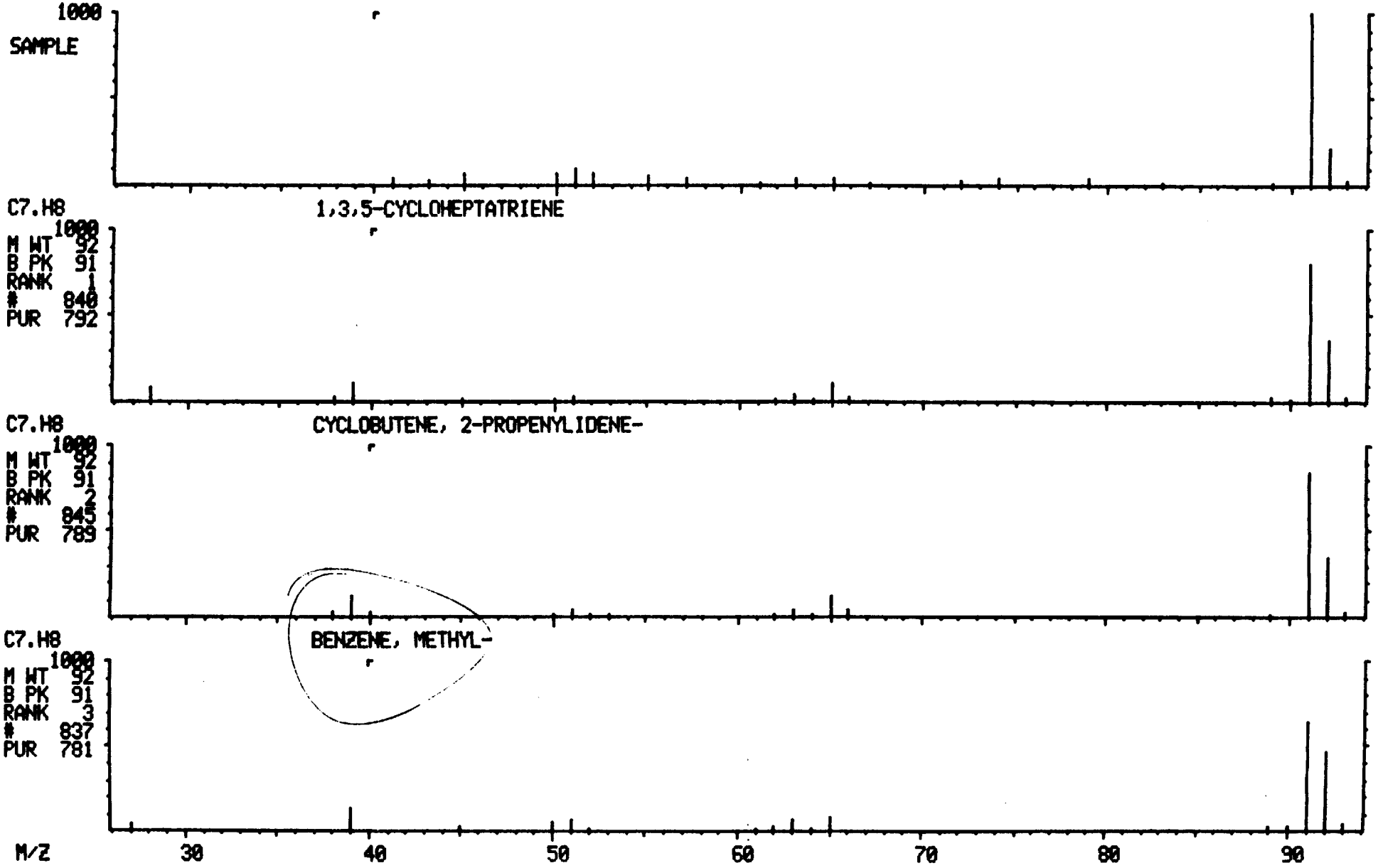
BASE M/Z: 92
RIC: 536575.



LIBRARY SEARCH
08/07/85 12:53:00 + 4:02
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 242
CALI: EQ275 # 2

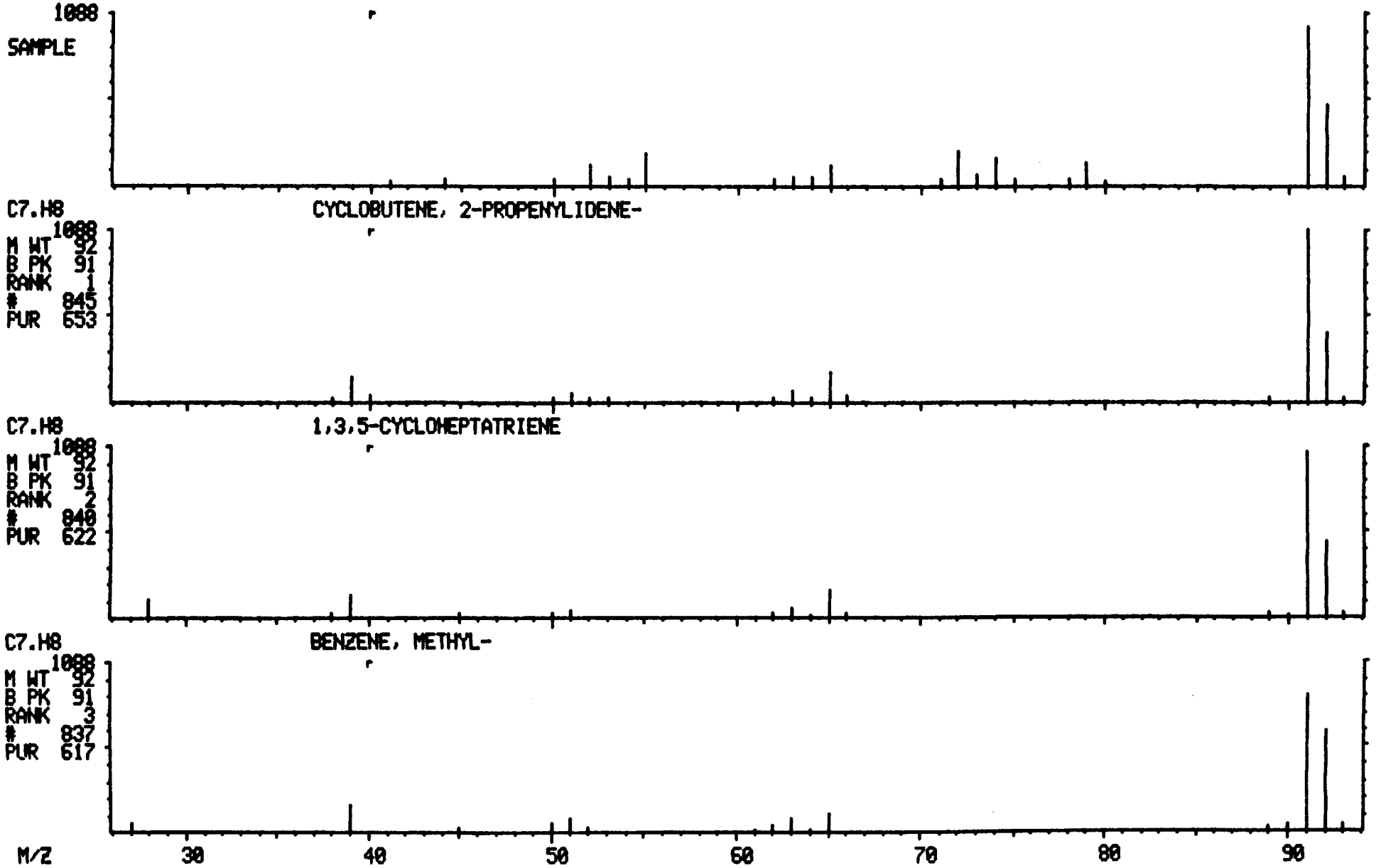
BASE M/Z: 91
RIC: 55295.



LIBRARY SEARCH
08/07/85 12:53:00 + 4:08
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 248
CALI: EQ275 # 2

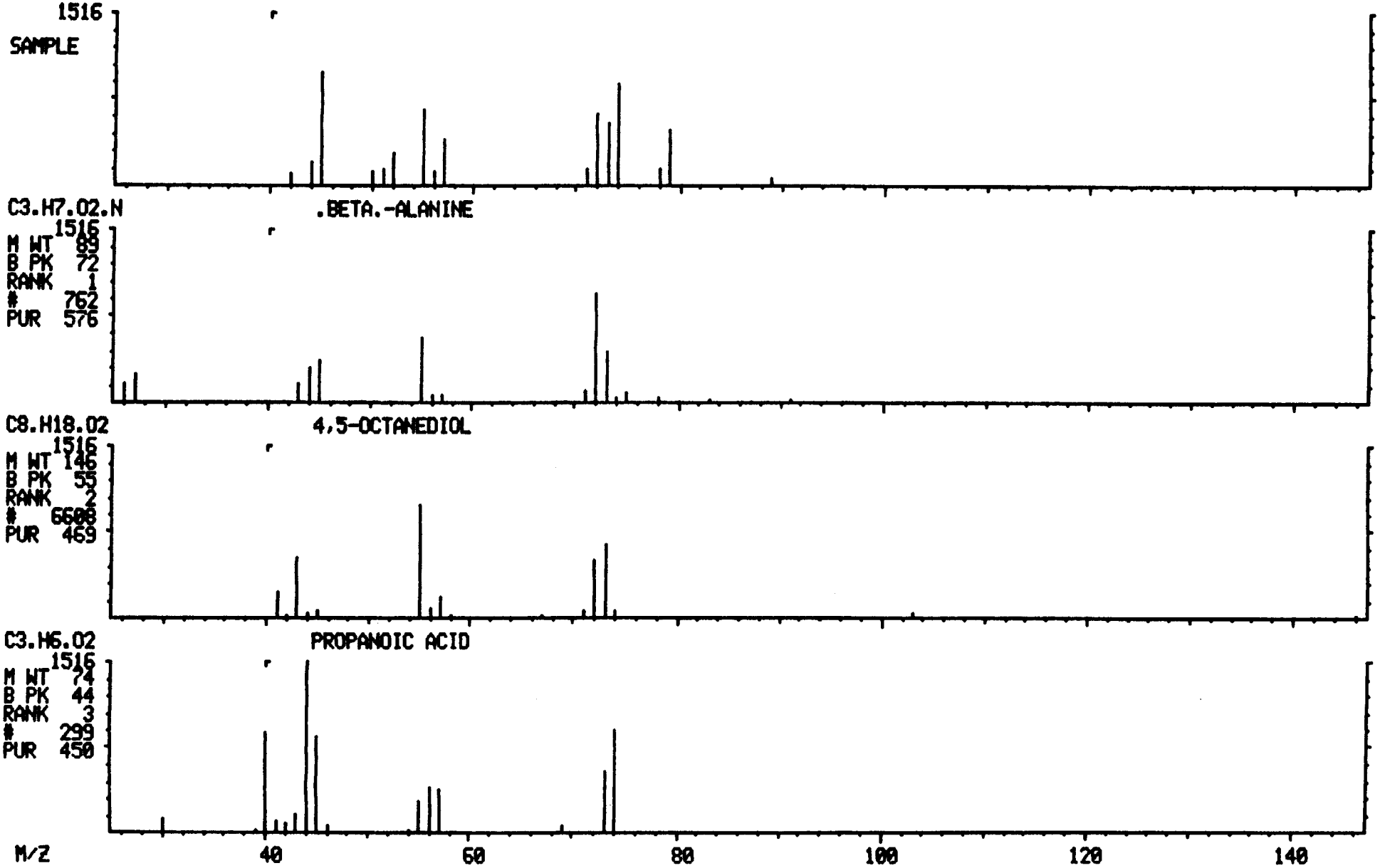
BASE M/Z: 91
RIC: 21567.



LIBRARY SEARCH
08/07/85 12:53:00 + 4:20
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 260
CALI: EQ275 # 2

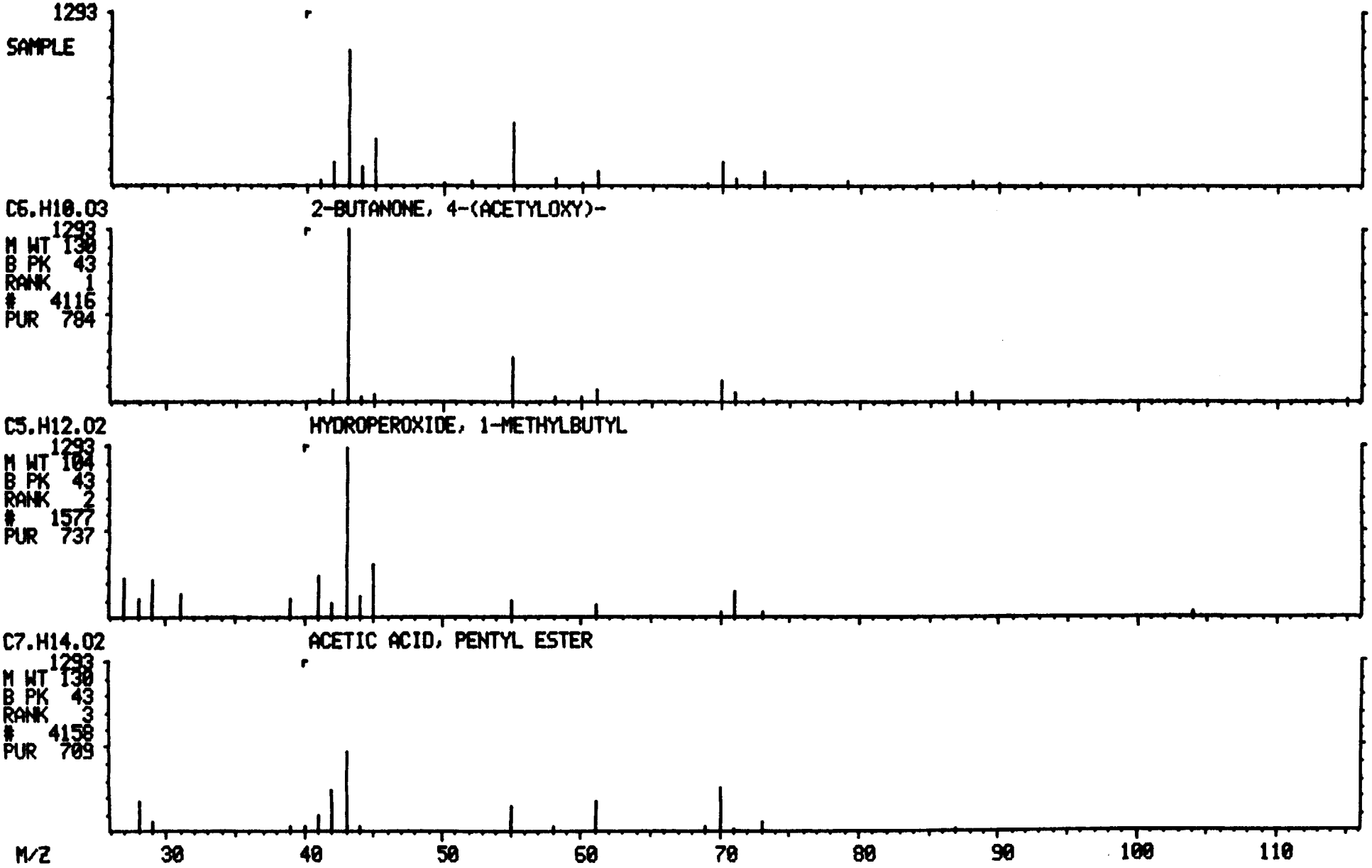
BASE M/Z: 45
RIC: 17727.



LIBRARY SEARCH
08/07/85 12:53:00 + 4:40
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (5 15B 2N 0T)

DATA: EQ275 # 280
CALI: EQ275 # 2

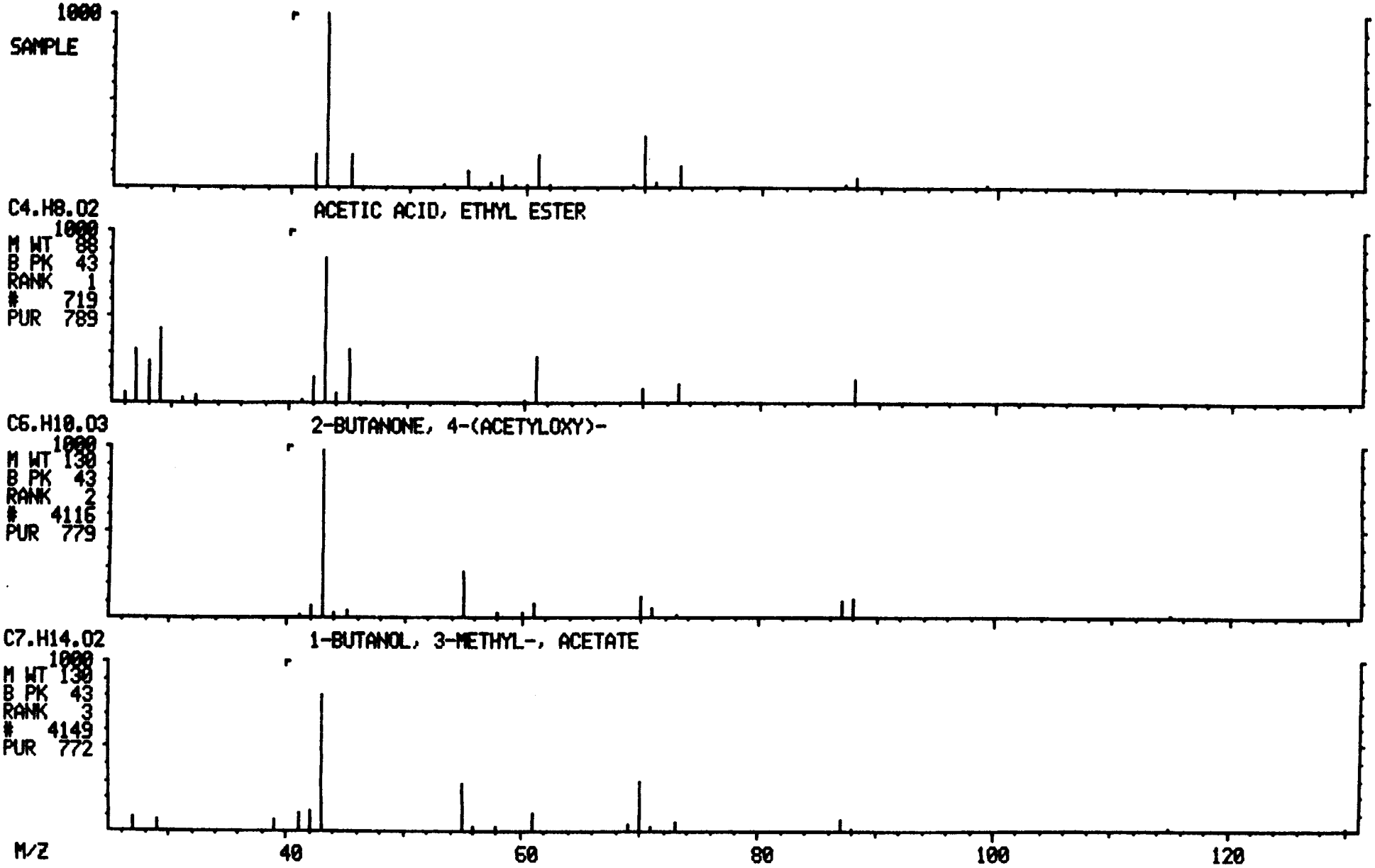
BASE M/Z: 43
RIC: 52863.

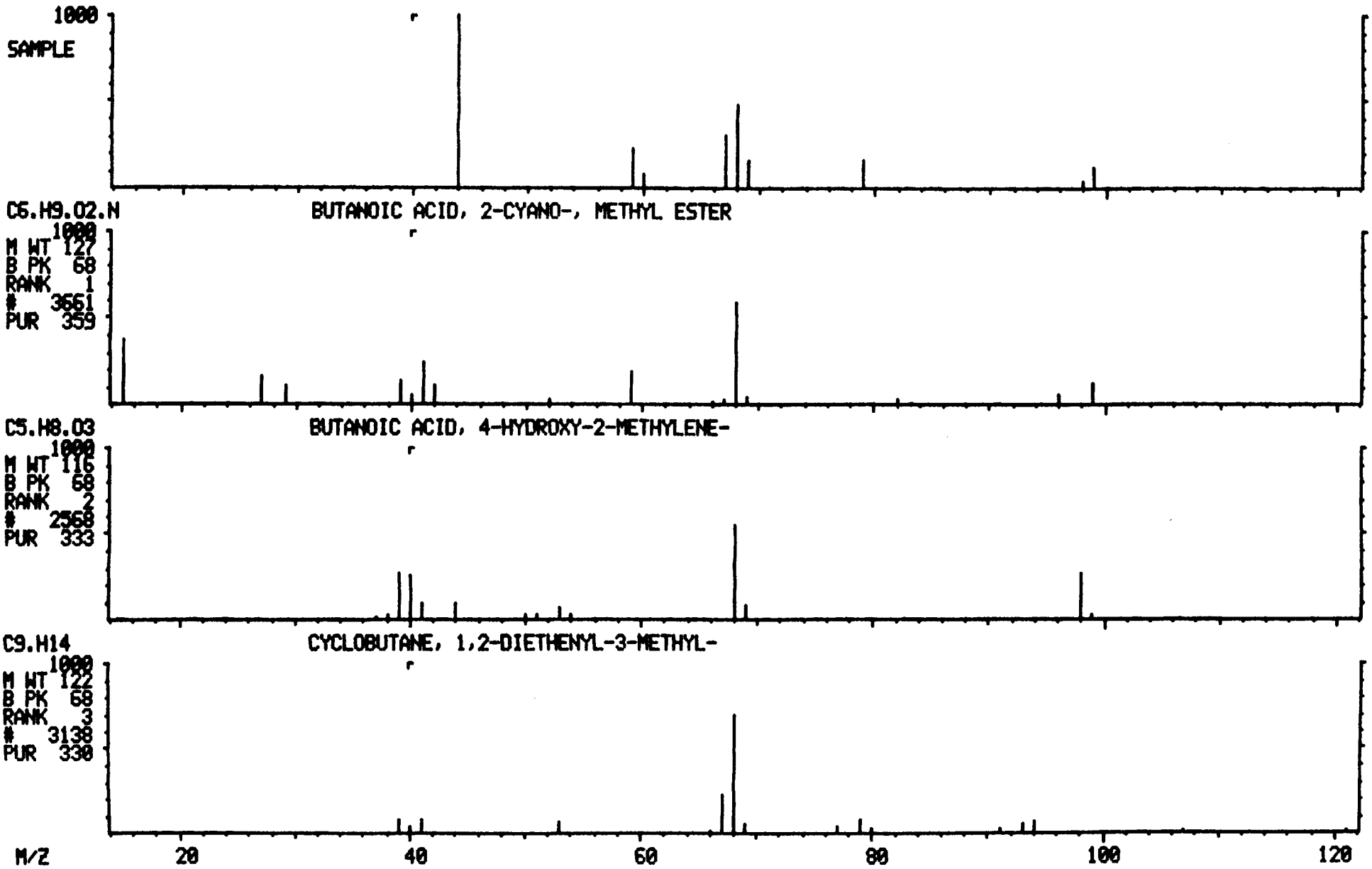


LIBRARY SEARCH
08/07/85 12:53:00 + 5:02
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 302
CALI: EQ275 # 2

BASE M/Z: 43
RIC: 242687.

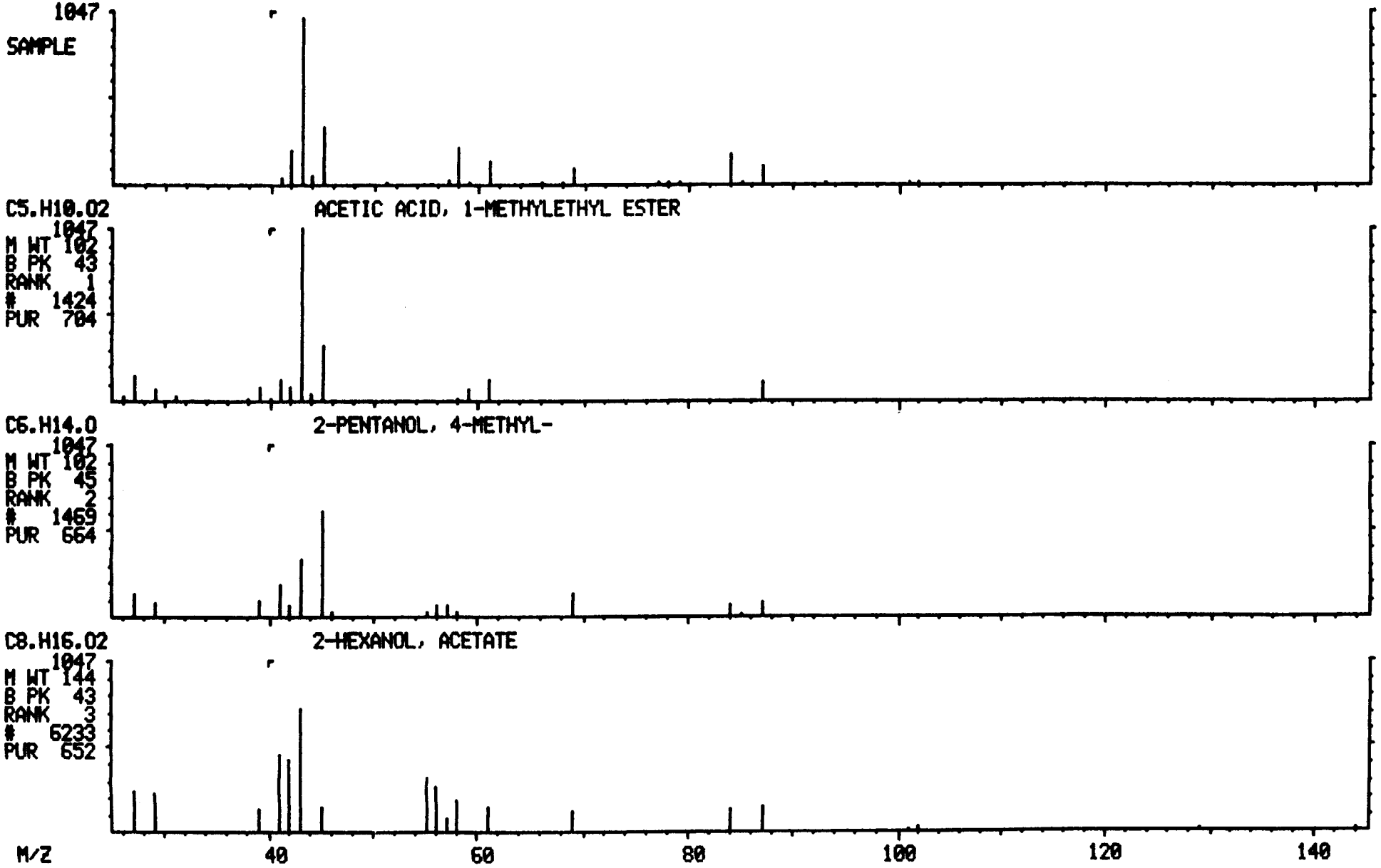



LIBRARY SEARCH
08/07/85 12:53:00 + 5:08
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ275 # 308
CALI: EQ275 # 2
BASE M/Z: 44
RIC: 2911.
1000
SAMPLE
C6.H9.02.N
BUTANOIC ACID, 2-CYANO-, METHYL ESTER
M WT 127
B PK 68
RANK 1
3661
PUR 359
C5.H8.03
BUTANOIC ACID, 4-HYDROXY-2-METHYLENE-
M WT 116
B PK 68
RANK 2
2568
PUR 333
C9.H14
CYCLOBUTANE, 1,2-DIETHENYL-3-METHYL-
M WT 122
B PK 68
RANK 3
3138
PUR 330
M/Z
20
40
60
80
100
120

LIBRARY SEARCH
08/07/85 12:53:00 + 5:28
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 328
CALI: EQ275 # 2

BASE M/Z: 43
RIC: 162303.



LIBRARY SEARCH
08/07/85 12:53:00 + 5:56
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 356
CALI: EQ275 # 2

BASE M/Z: 43
RIC: 34303.

1096
SAMPLE

C8.H14.03 2-HEXANONE, 6-(ACETYLOXY)-
1096
M WT 158
B PK 43
RANK 1
8641
PUR 693

C6.H12.02 1,3-DIOXOLANE, 2,2,4-TRIMETHYL-
1096
M WT 116
B PK 43
RANK 2
2601
PUR 626

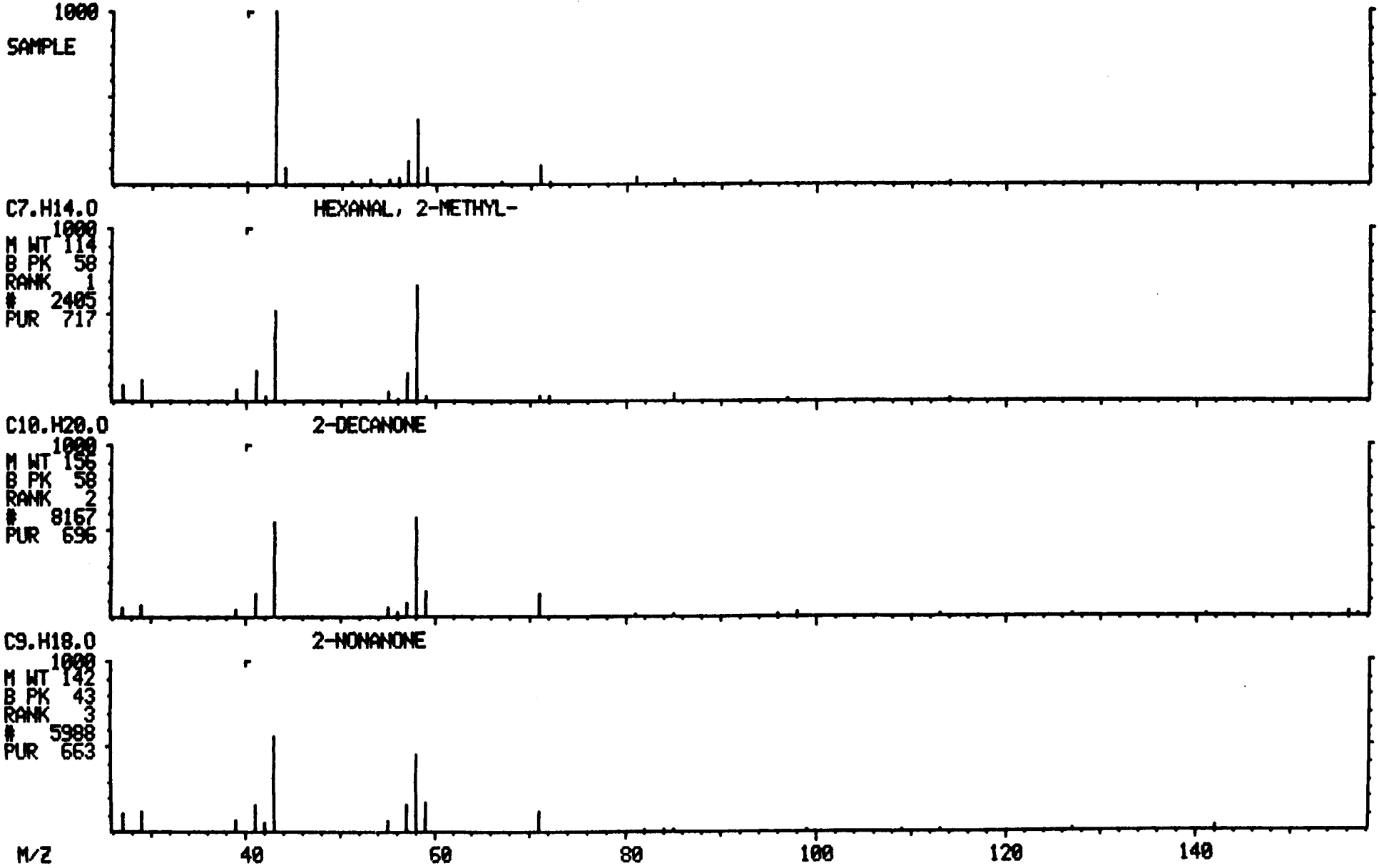
C7.H16.0 2-PENTANOL, 2,4-DIMETHYL-
1096
M WT 116
B PK 59
RANK 3
2678
PUR 622

M/Z 20 30 40 50 60 70 80 90 100

LIBRARY SEARCH
08/07/85 12:53:00 + 6:13
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 373
CALI: EQ275 # 2

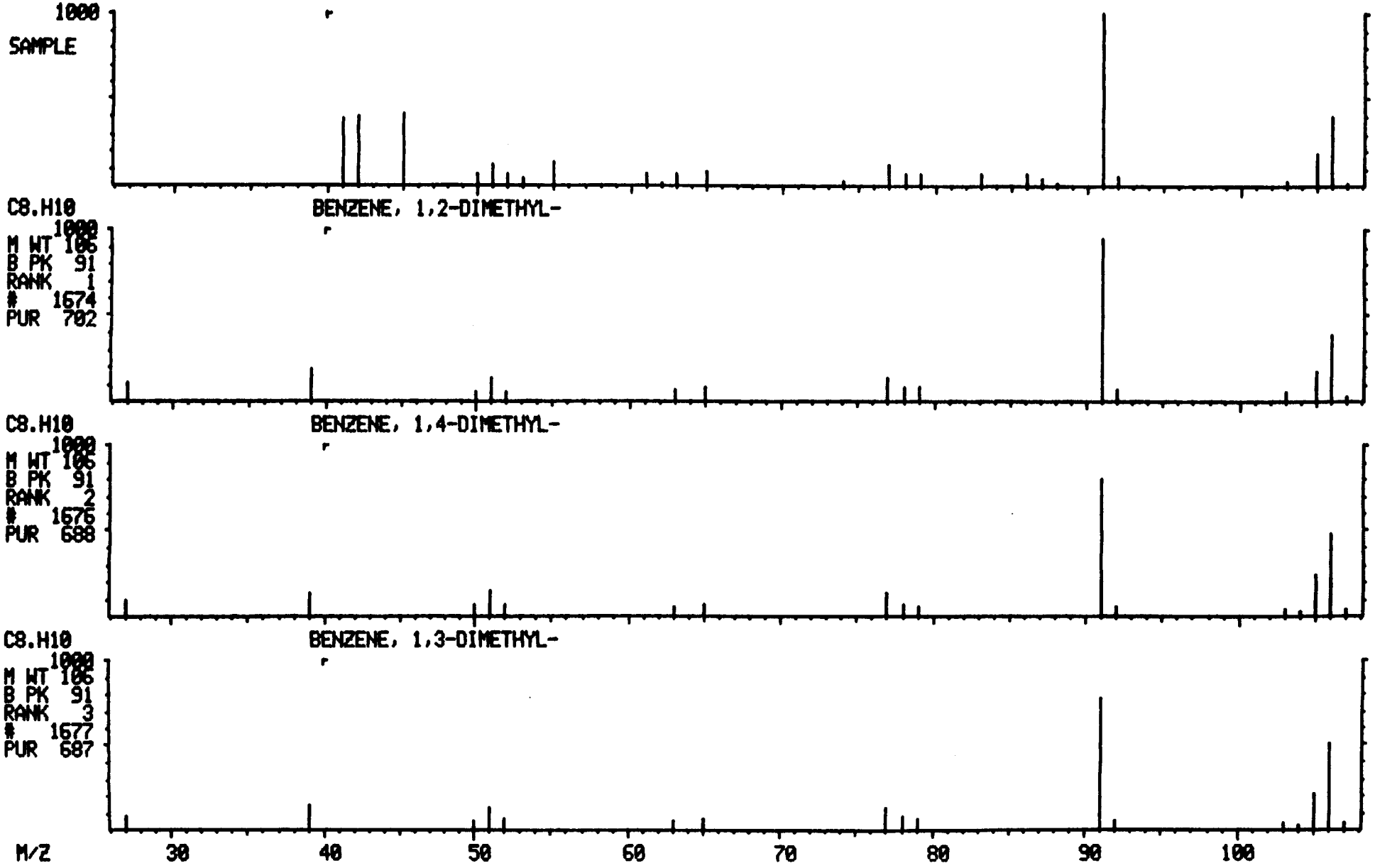
BASE M/Z: 43
RIC: 19935.



LIBRARY SEARCH
08/07/85 12:53:00 + 6:22
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 382
CALI: EQ275 # 2

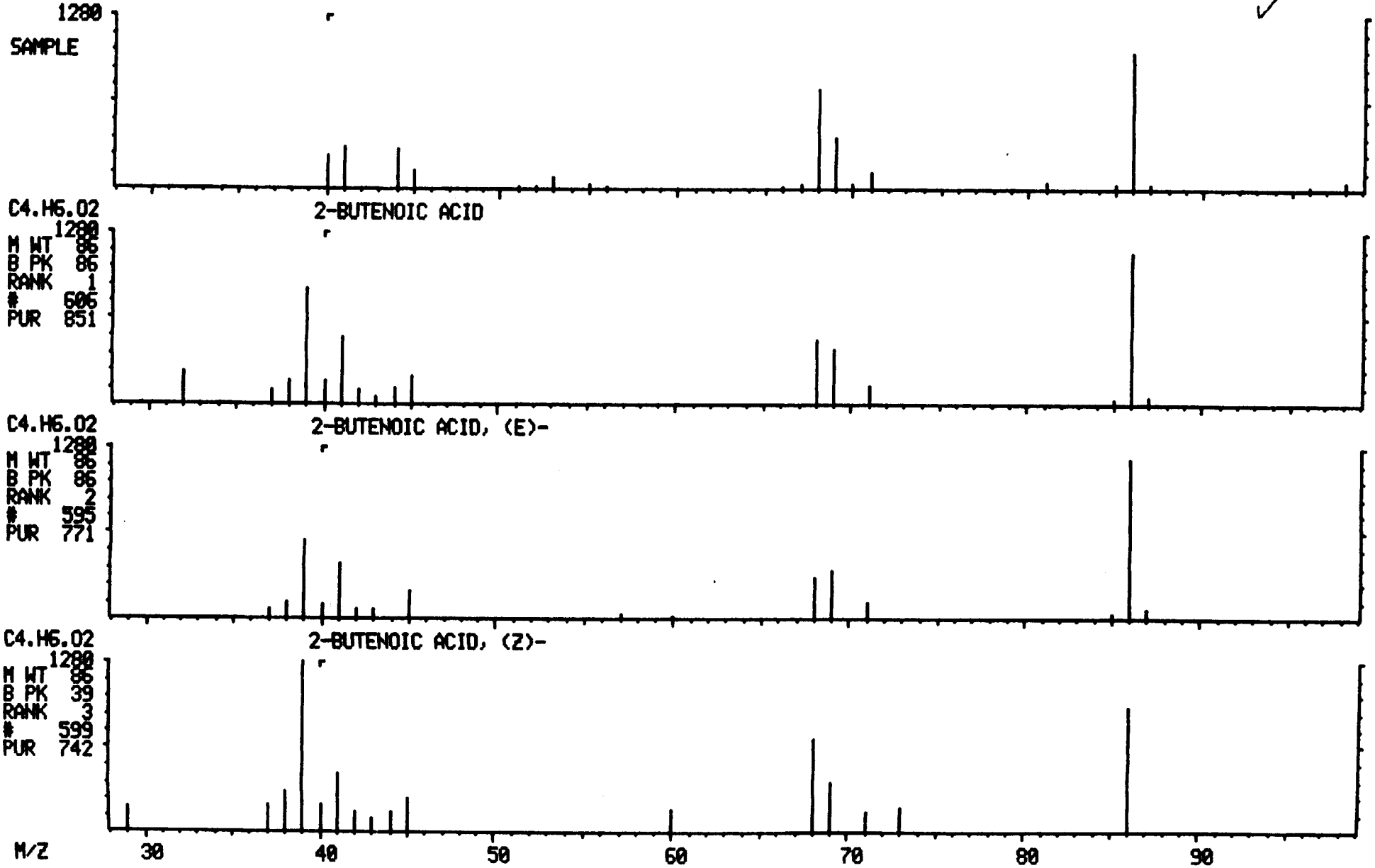
BASE M/Z: 91
RIC: 20831.



LIBRARY SEARCH
08/07/85 12:53:00 + 6:31
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 391
CALI: EQ275 # 2

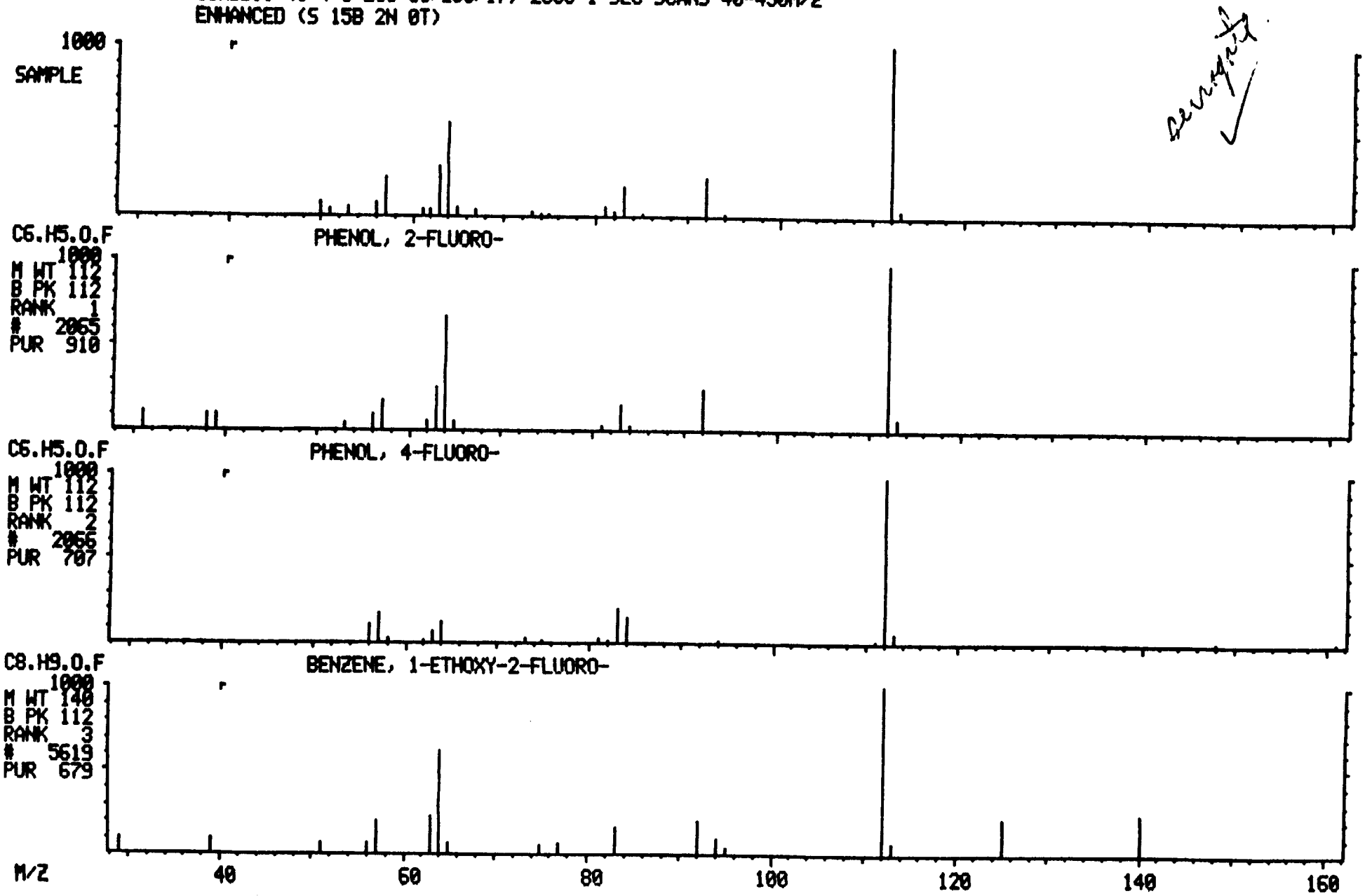
BASE M/Z: 86
RIC: 22911.



LIBRARY SEARCH
08/07/85 12:53:00 + 6:54
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 414
CALI: EQ275 # 2

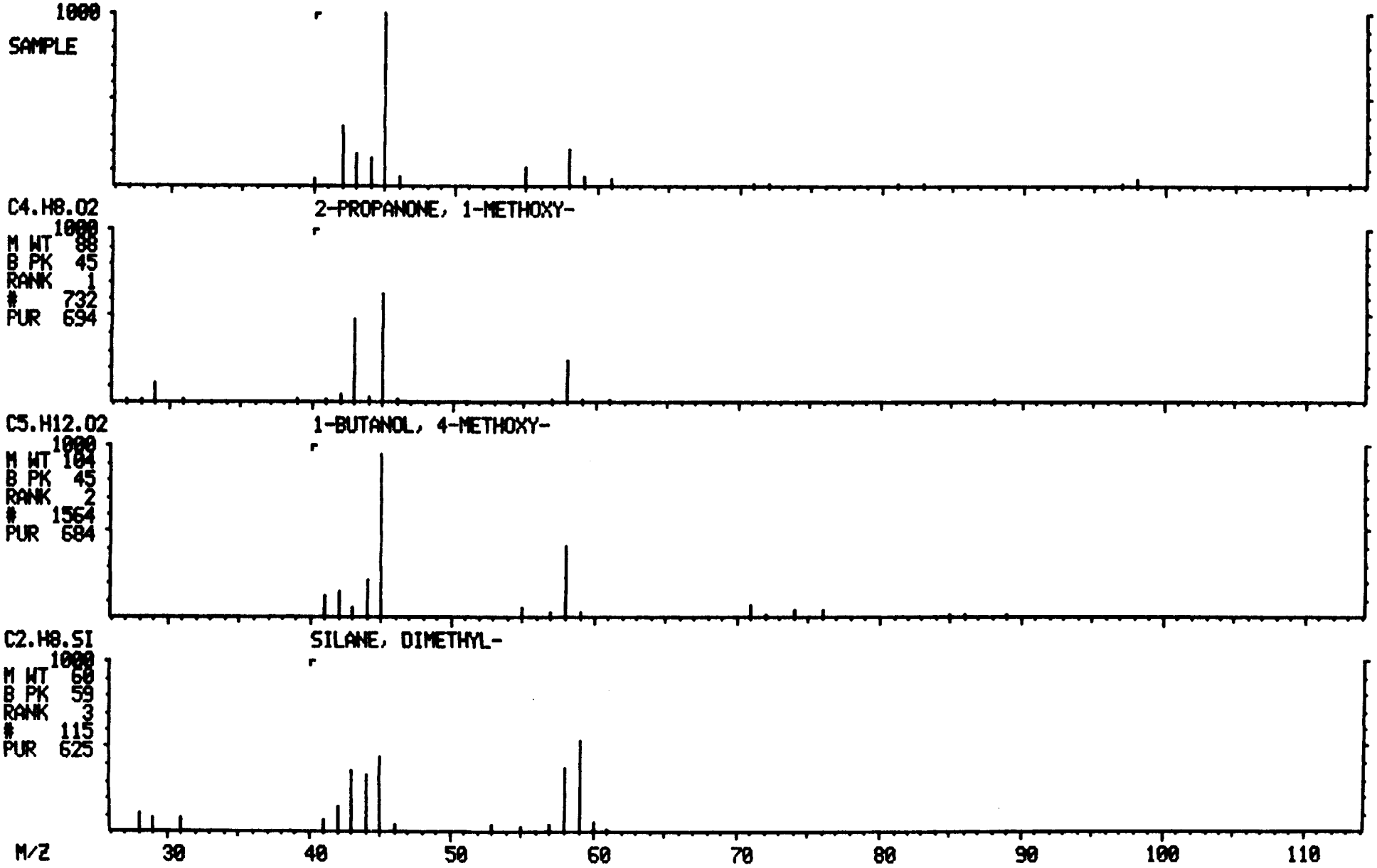
BASE M/Z: 112
RIC: 47295.



LIBRARY SEARCH
08/07/85 12:53:00 + 7:03
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 423
CALI: EQ275 # 2

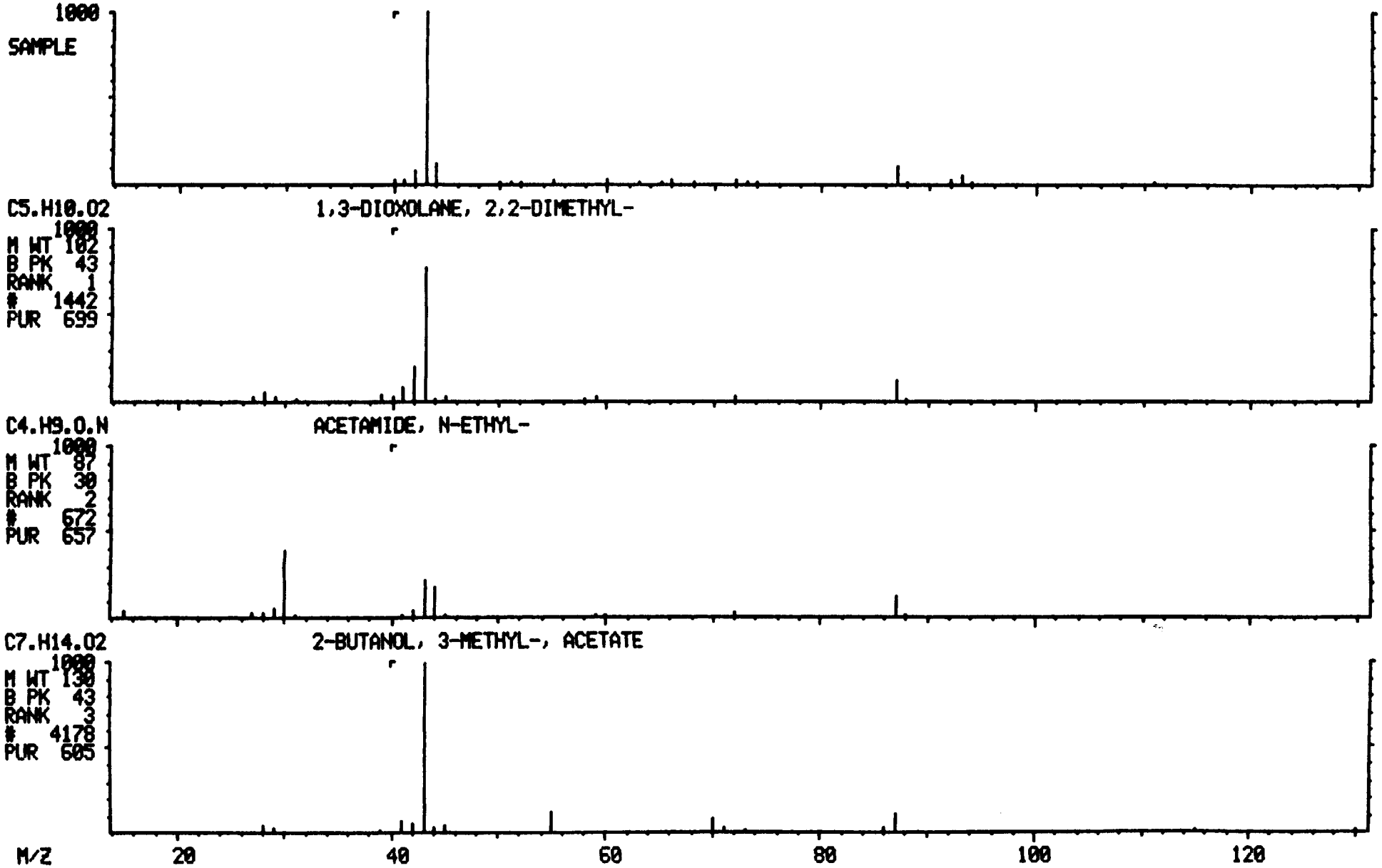
BASE M/Z: 45
RIC: 28447.



LIBRARY SEARCH
08/07/85 12:53:00 + 7:15
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 435
CALI: EQ275 # 2

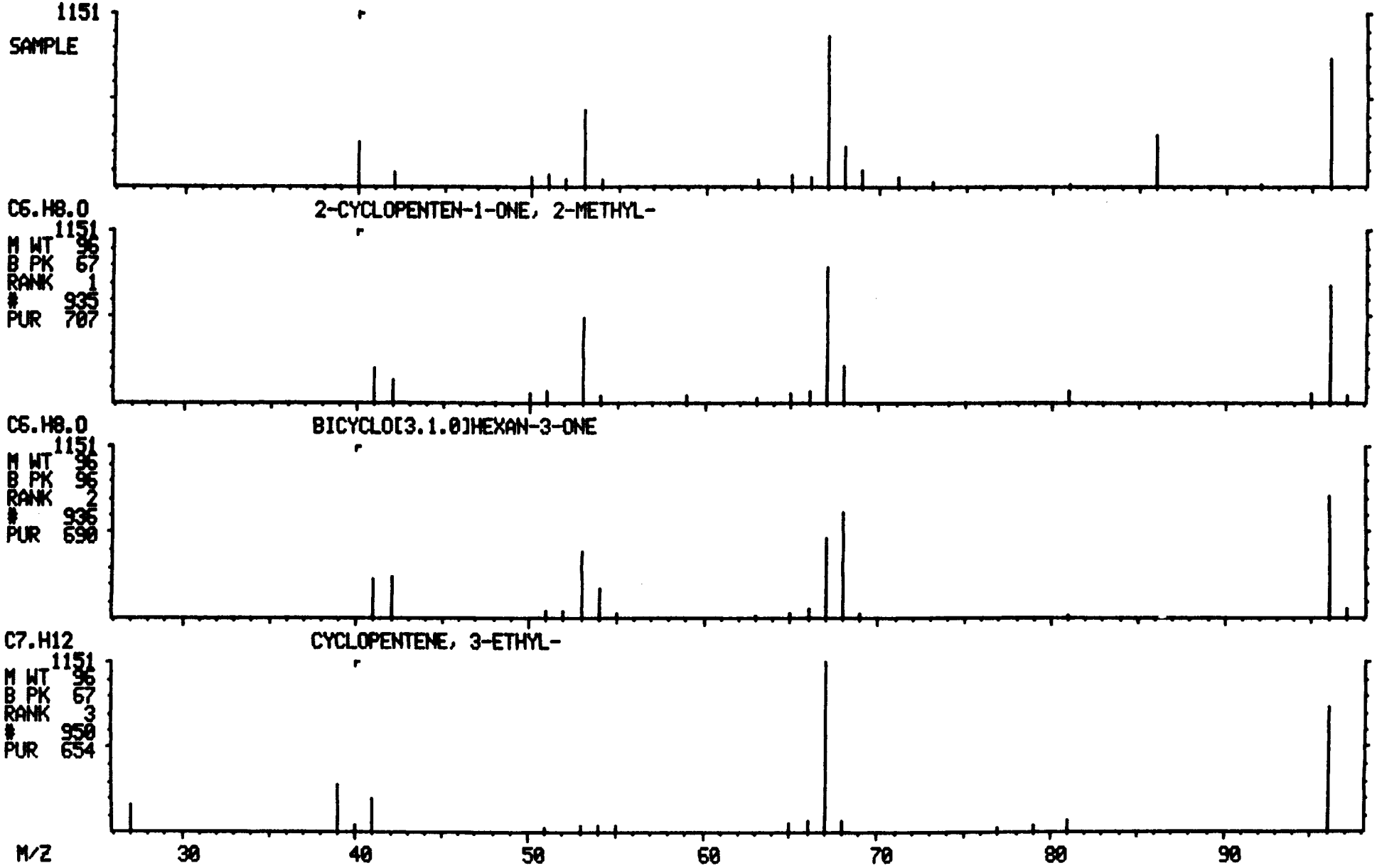
BASE M/Z: 43
RIC: 63295.



LIBRARY SEARCH
08/07/85 12:53:00 + 7:26
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 446
CALI: EQ275 # 2

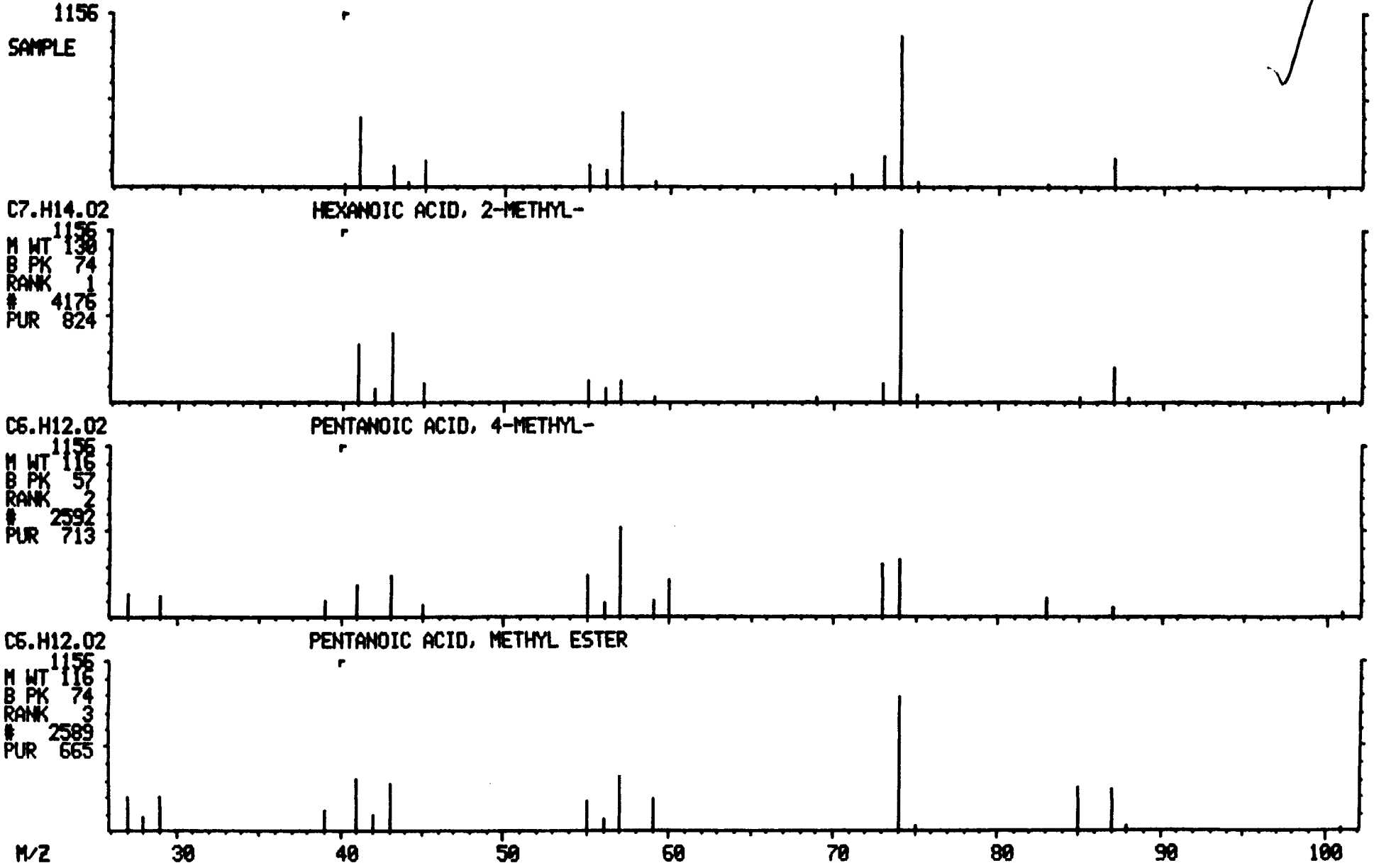
BASE M/Z: 67
RIC: 27039.



LIBRARY SEARCH
00/07/85 12:53:00 + 7:39
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 459
CALI: EQ275 # 2

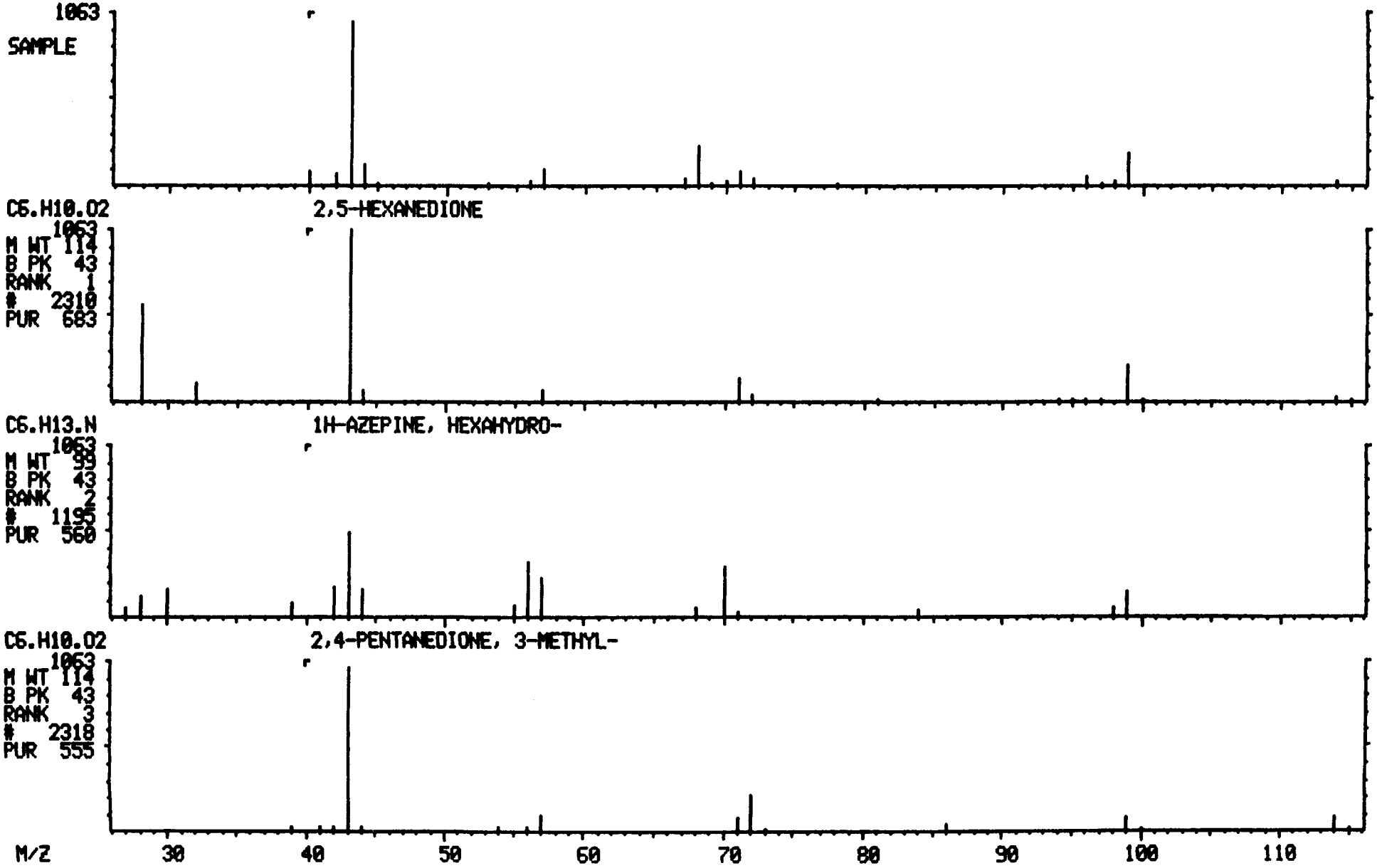
BASE M/Z: 74
RIC: 26655.



LIBRARY SEARCH
08/07/85 12:53:00 + 8:03
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 483
CALI: EQ275 # 2

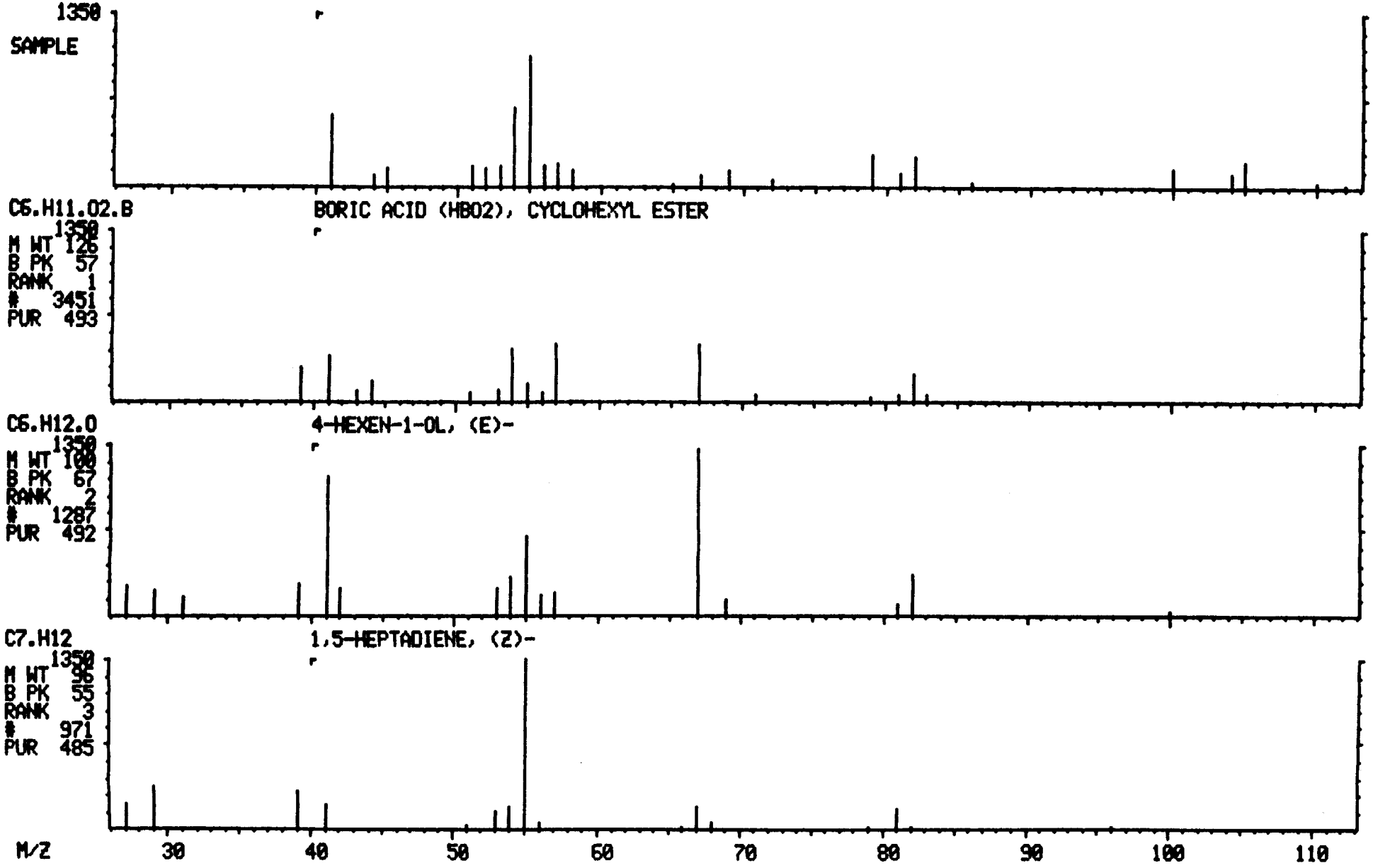
BASE M/Z: 43
RIC: 22783.



LIBRARY SEARCH
08/07/85 12:53:00 + 8:09
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 489
CALI: EQ275 # 2

BASE M/Z: 55
RIC: 12879.



LIBRARY SEARCH
08/07/85 12:53:00 + 8:18
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 498
CALI: EQ275 # 2

BASE M/Z: 60
RIC: 26847.

1000
SAMPLE

C6.H12.02 HEXANOIC ACID
1000
M WT 116
B PK 60
RANK 1
2582
PUR 931

C4.H8.02 BUTANOIC ACID
1000
M WT 88
B PK 60
RANK 2
715
PUR 837

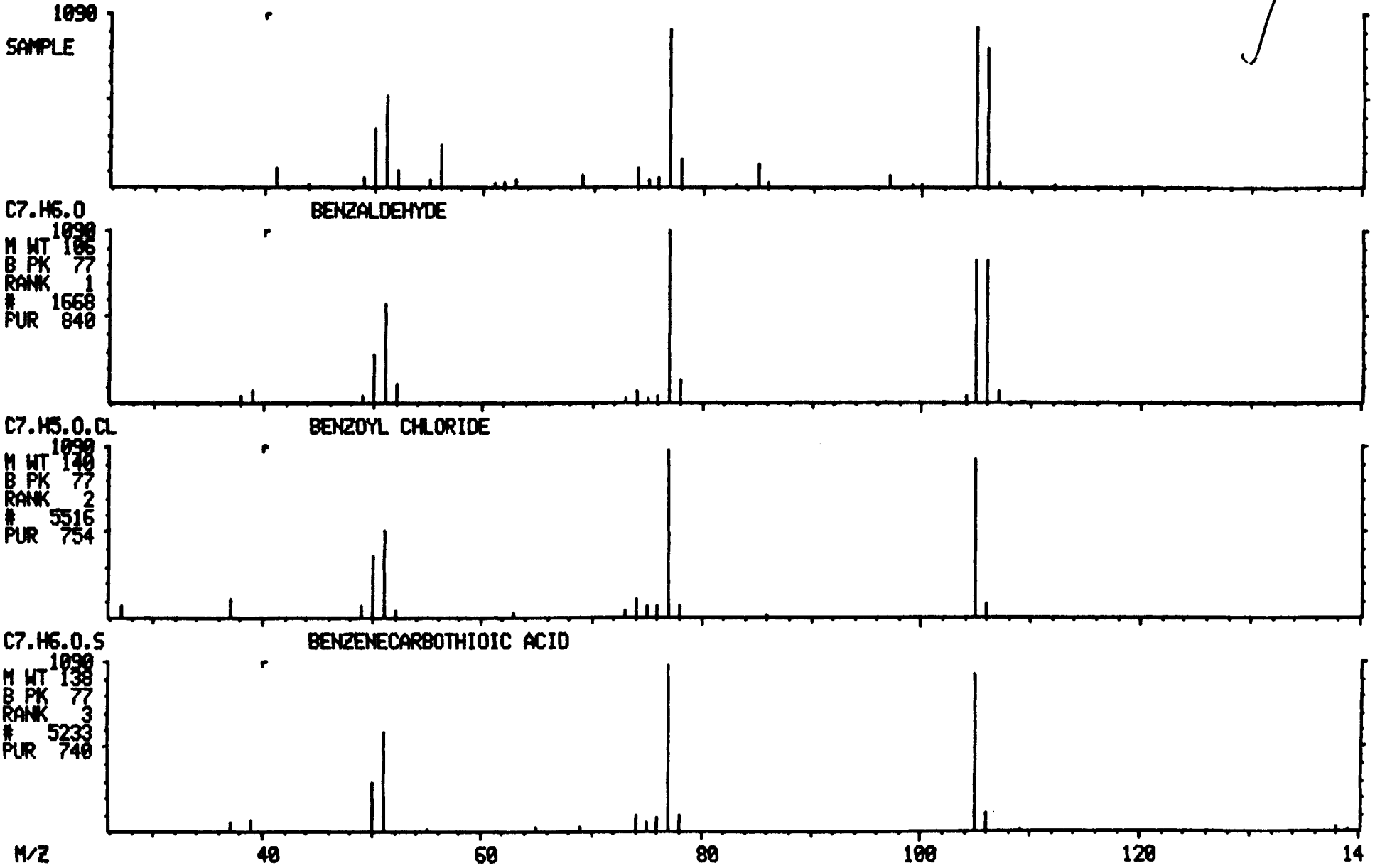
C5.H10.02 BUTANOIC ACID, 3-METHYL-
1000
M WT 102
B PK 60
RANK 3
1429
PUR 712

M/Z 30 40 50 60 70 80 90

LIBRARY SEARCH
08/07/85 12:53:00 + 8:37
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 517
CALI: EQ275 # 2

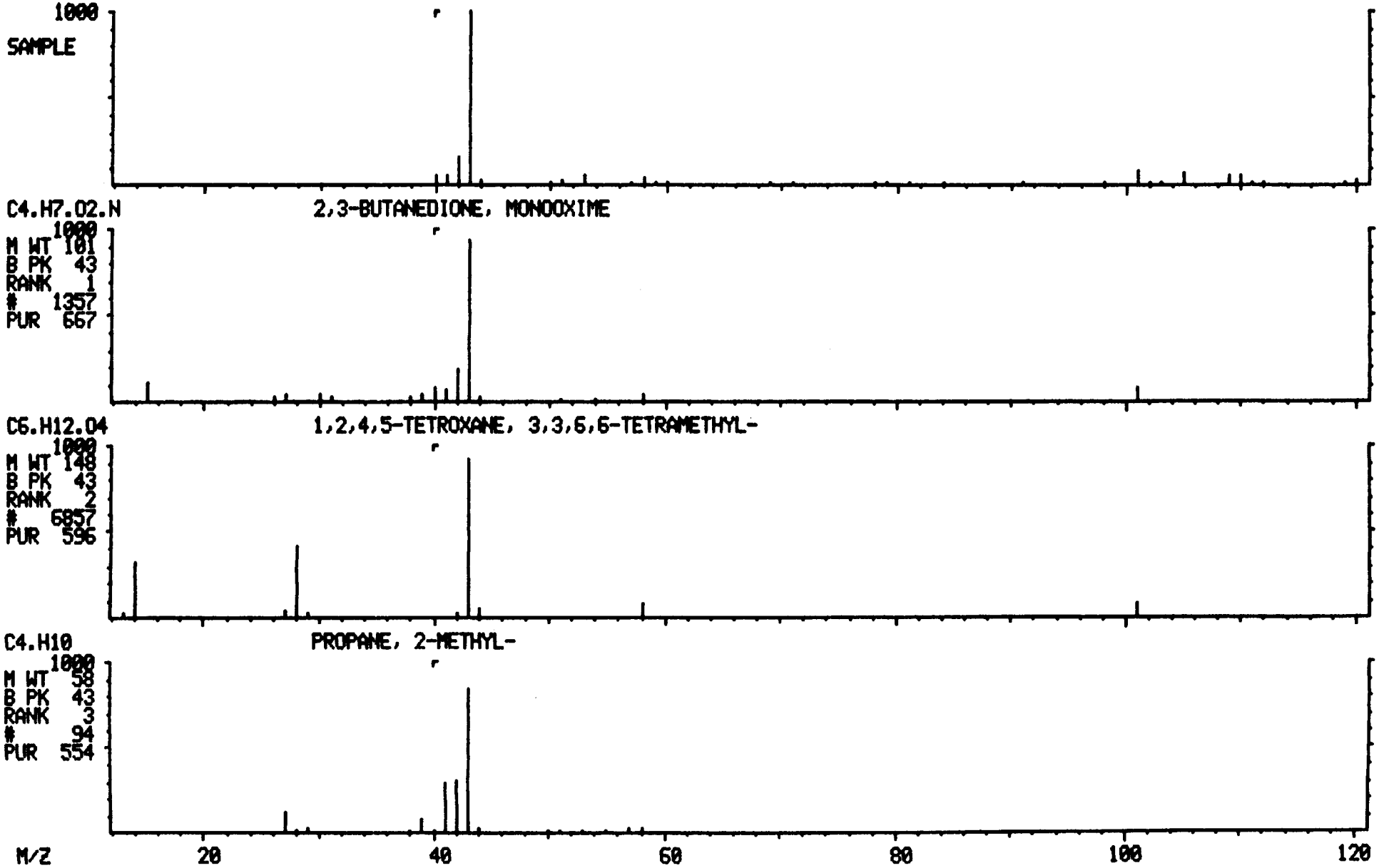
BASE M/Z: 105
RIC: 57535.



LIBRARY SEARCH
08/07/85 12:53:00 + 8:47
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 527
CALI: EQ275 # 2

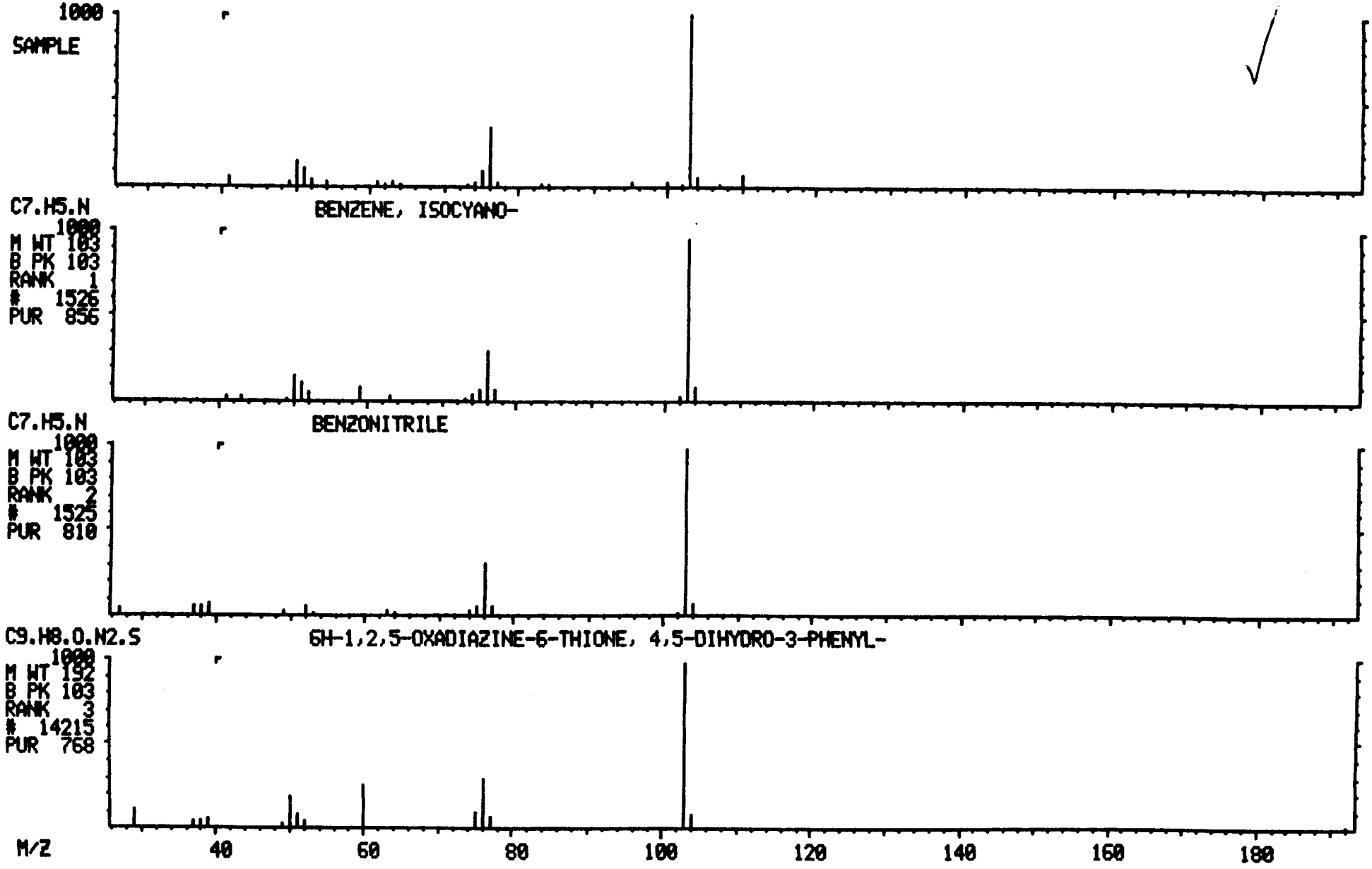
BASE M/Z: 43
RIC: 88191.



LIBRARY SEARCH
08/07/85 12:53:00 + 9:11
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 551
CALI: EQ275 # 2

BASE M/Z: 103
RIC: 40447.



LIBRARY SEARCH
08/07/85 12:53:00 + 9:27
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 567
CALI: EQ275 # 2

BASE M/Z: 94
RIC: 212479.

HSL ✓

1028
SAMPLE

C6.H6.O PHENOL
1028
M WT 94
B PK 94
RANK 1
879
PUR 928

C6.H6.04.S BENZENESULFONIC ACID, 4-HYDROXY-
1028
M WT 174
B PK 94
RANK 2
11385
PUR 887

C7.H7.02.N CARBAMIC ACID, PHENYL ESTER
1028
M WT 137
B PK 94
RANK 3
5055
PUR 836

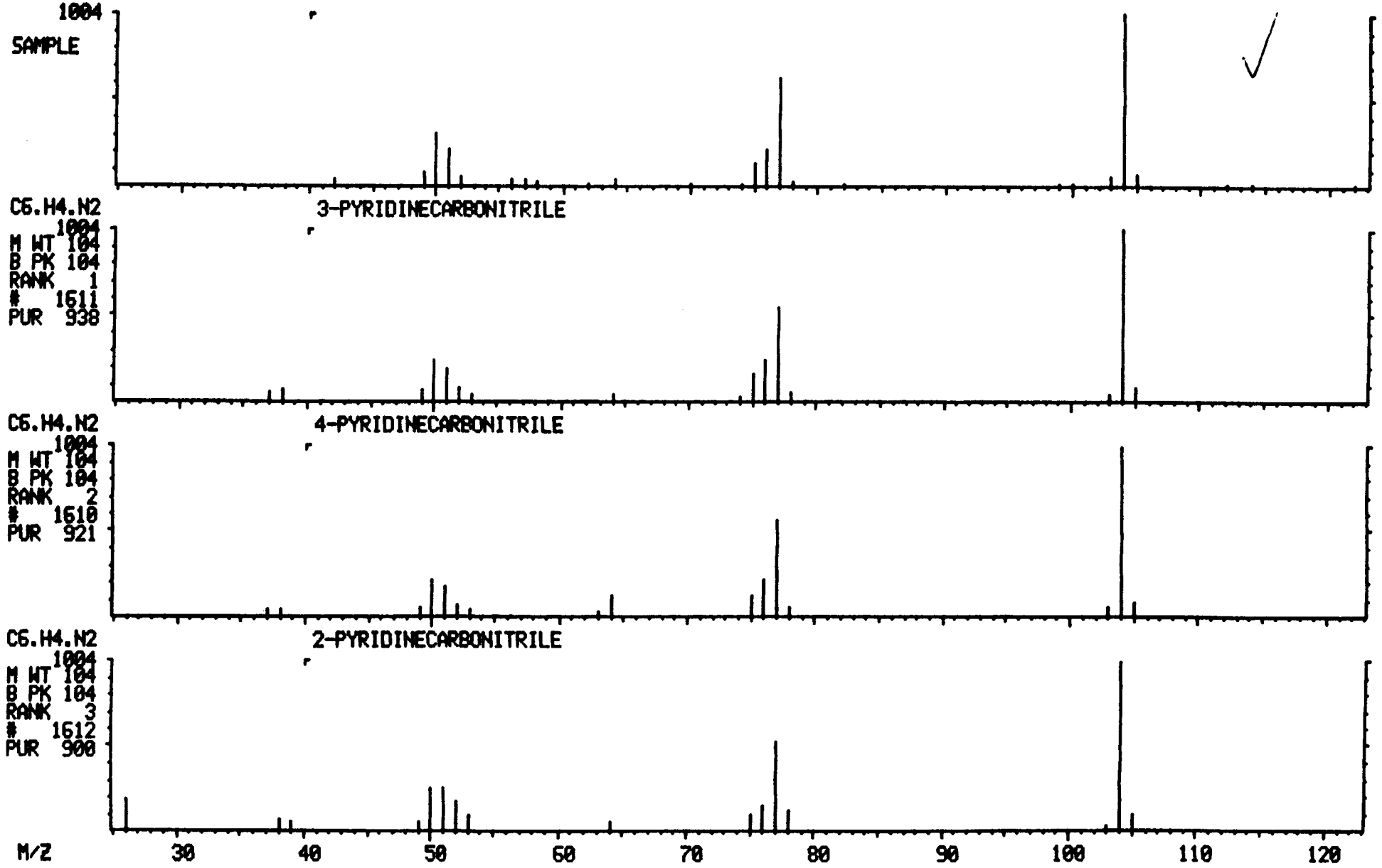
M/Z 40 50 60 70 80 90 100 110 120 130

C-480

LIBRARY SEARCH
08/07/85 12:53:00 + 9:50
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 590
CALI: EQ275 # 2

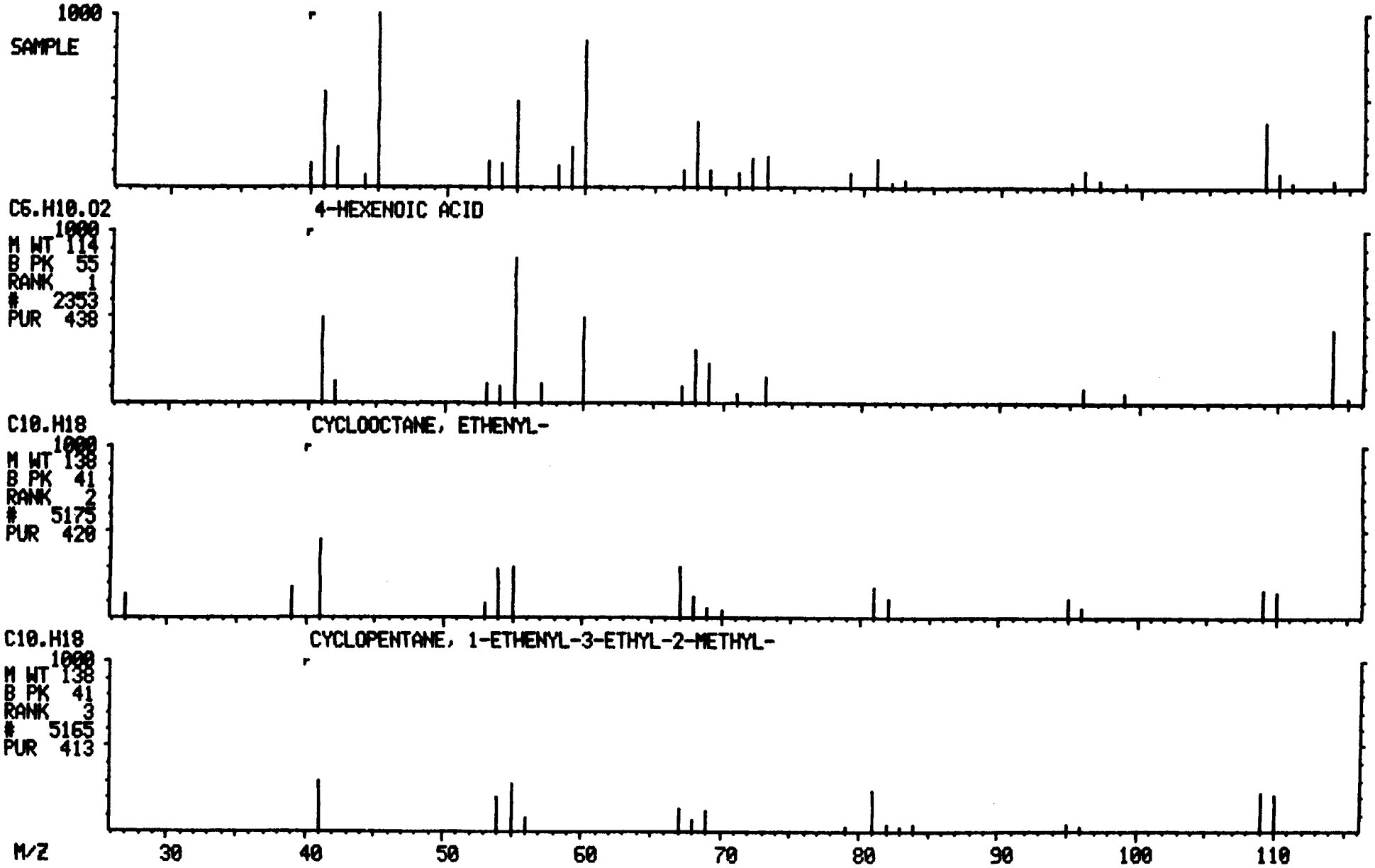
BASE M/Z: 104
RIC: 53567.



LIBRARY SEARCH
08/07/85 12:53:00 + 9:55
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 595
CALI: EQ275 # 2

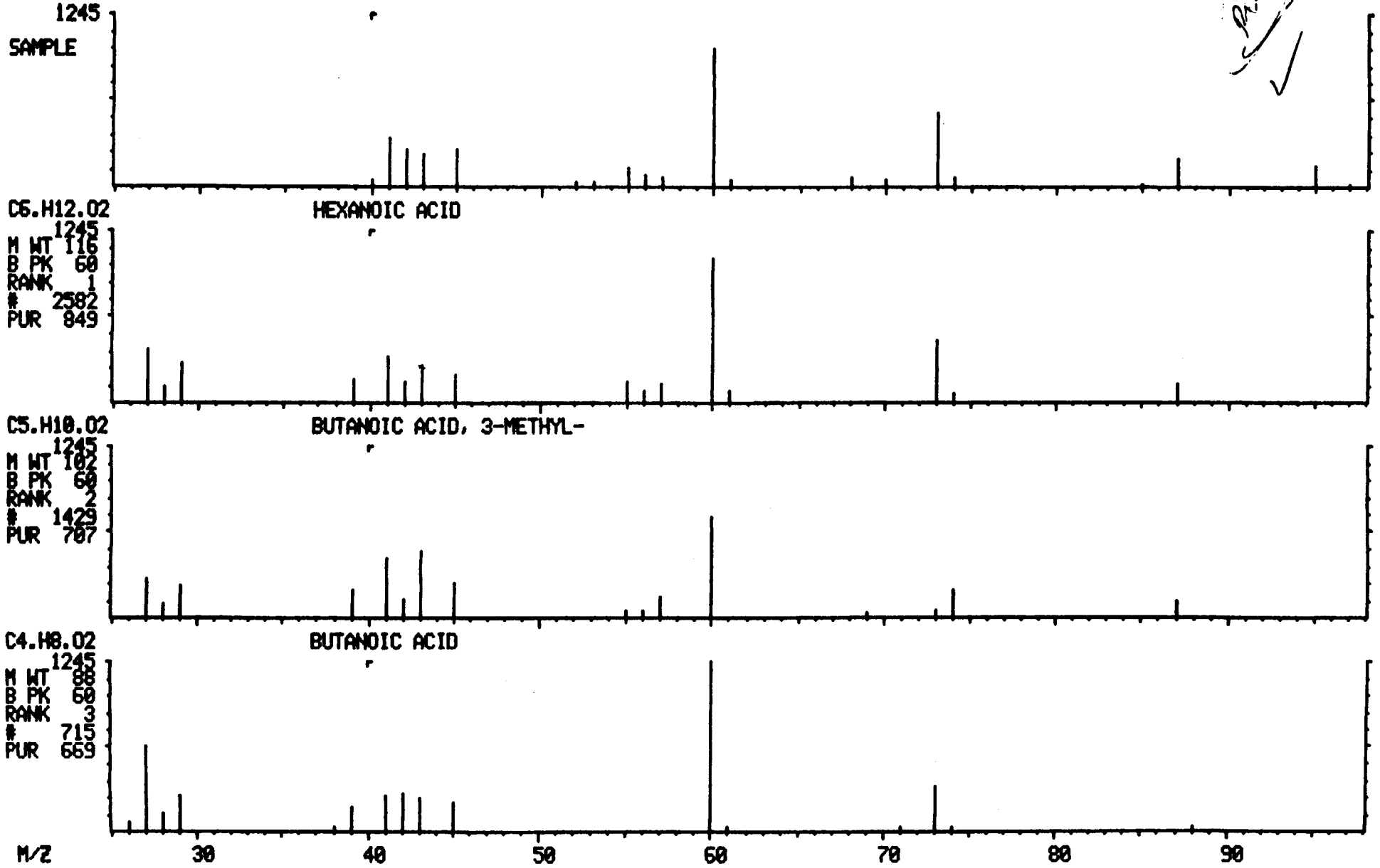
BASE M/Z: 45
RIC: 37183.



LIBRARY SEARCH
00/07/85 12:53:00 + 10:01
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 601
CALI: EQ275 # 2

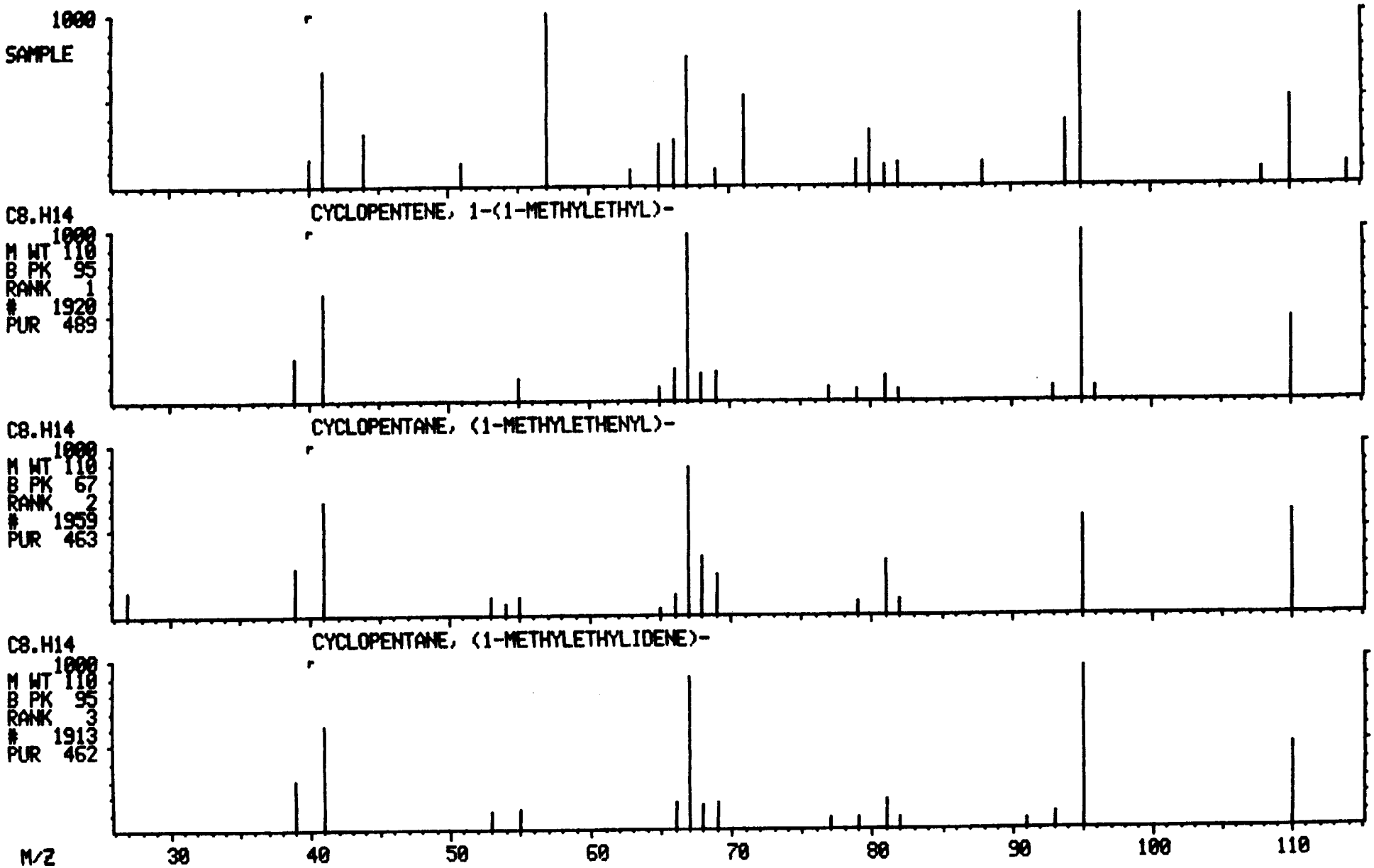
BASE M/Z: 60
RIC: 26783.



LIBRARY SEARCH
08/07/85 12:53:00 + 10:10
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 610
CALI: EQ275 # 2

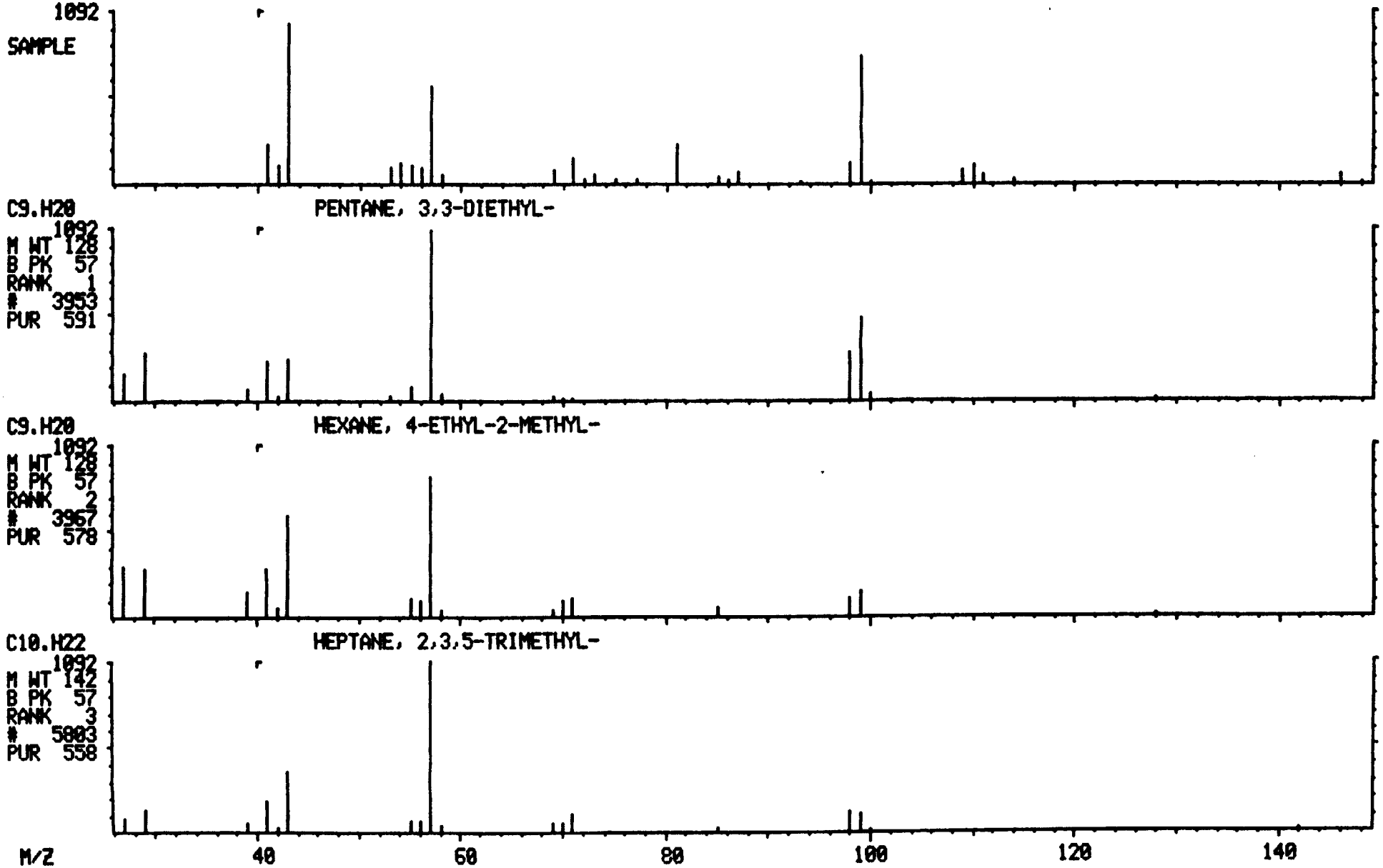
BASE M/Z: 57
RIC: 14095.



LIBRARY SEARCH
08/07/85 12:53:00 + 10:14
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 614
CALI: EQ275 # 2

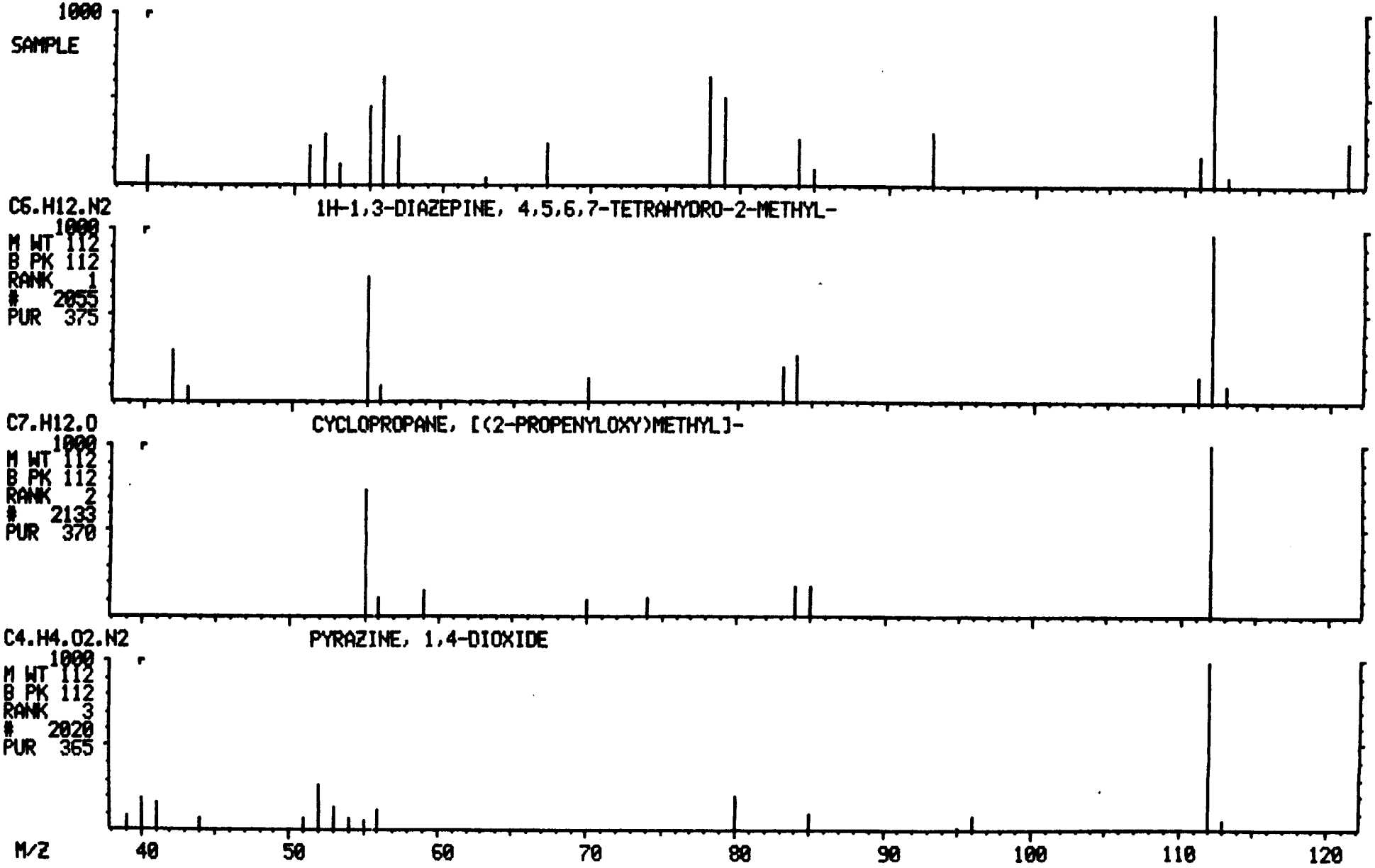
BASE M/Z: 43
RIC: 18911.

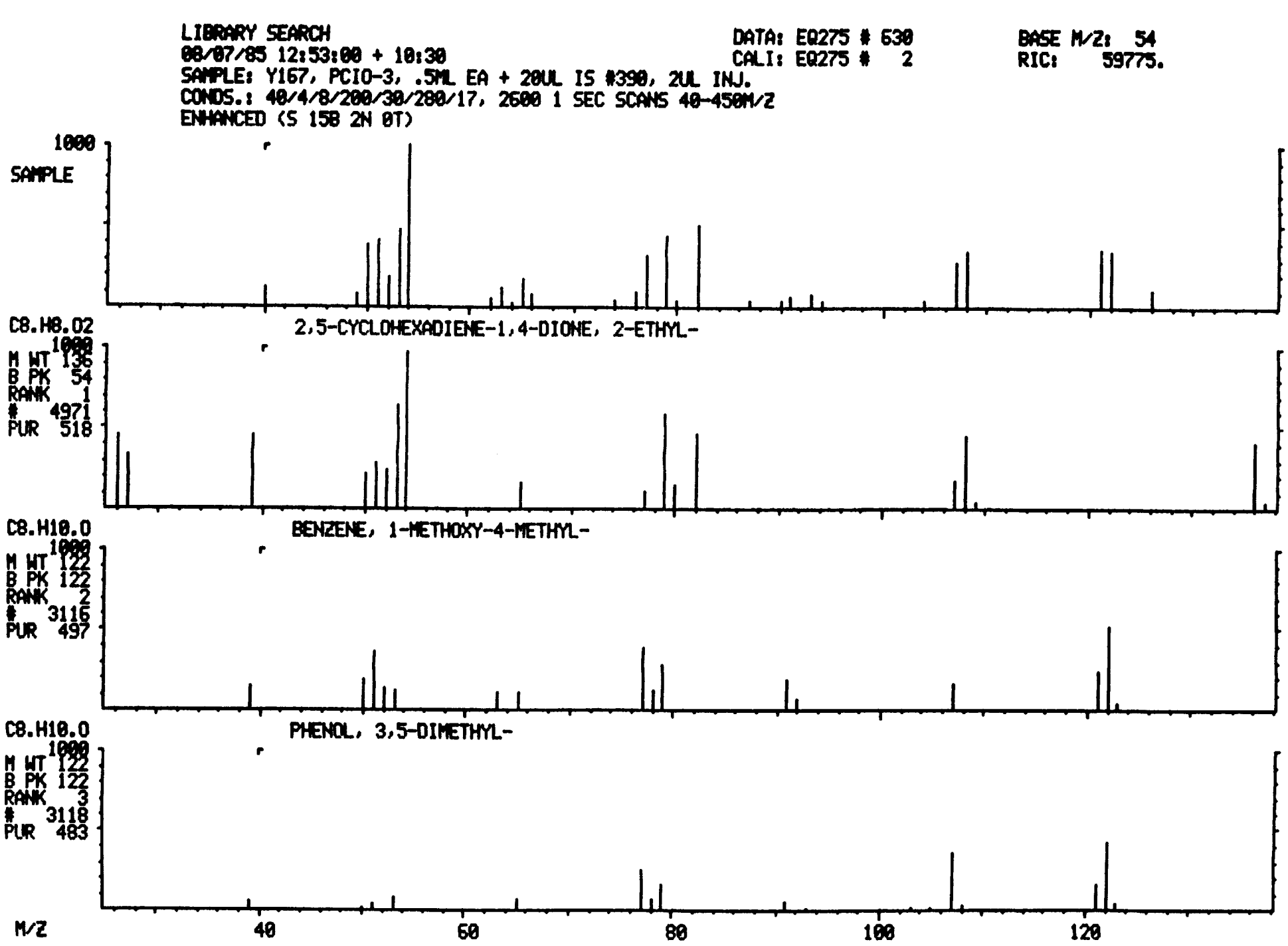


LIBRARY SEARCH
08/07/85 12:53:00 + 10:19
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 619
CALI: EQ275 # 2

BASE M/Z: 112
RIC: 8847.

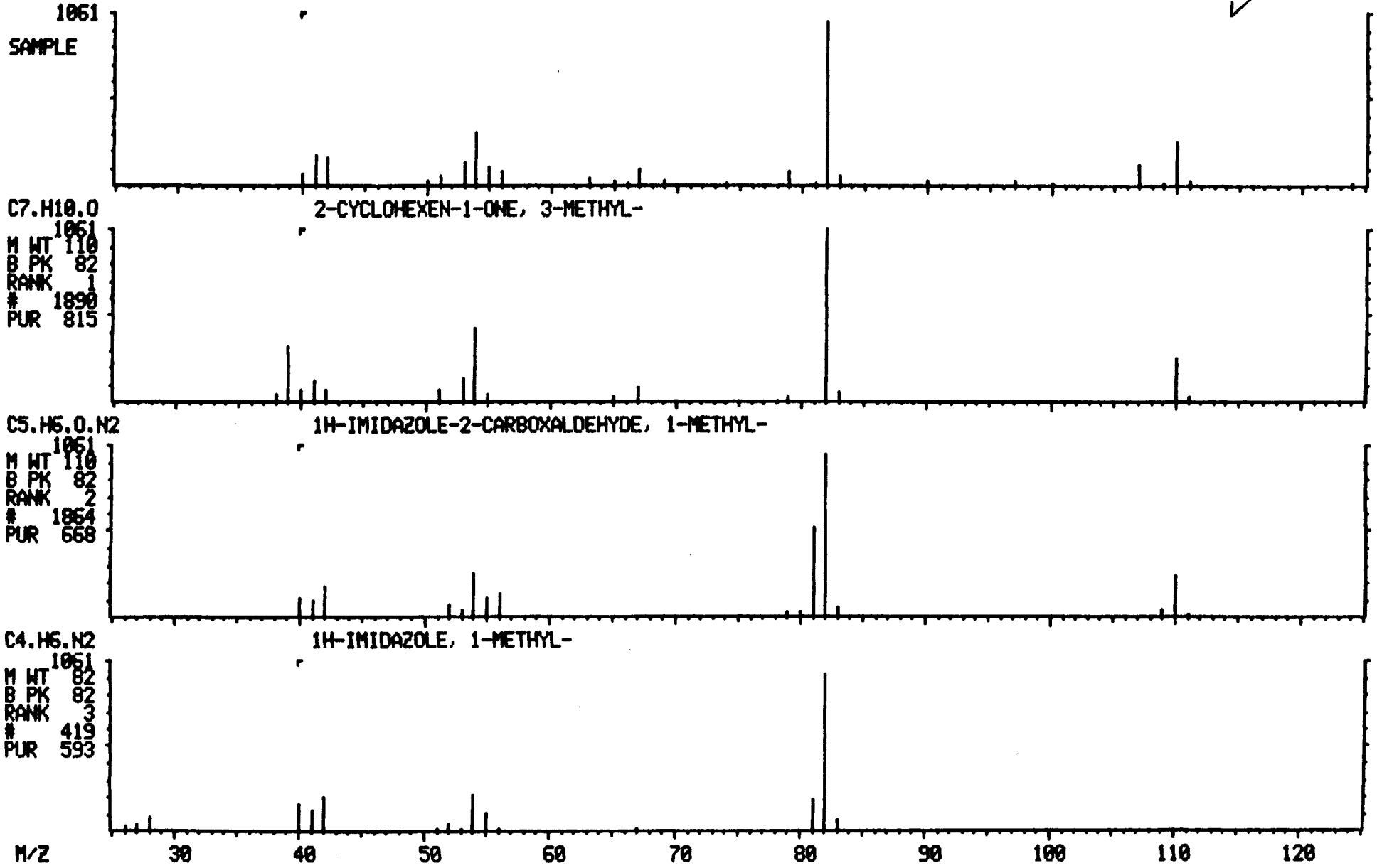



LIBRARY SEARCH
08/07/85 12:53:00 + 10:30
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ275 # 630
CALI: EQ275 # 2
BASE M/Z: 54
RIC: 59775.
1000
SAMPLE
C8.H8.02
2,5-CYCLOHEXADIENE-1,4-DIONE, 2-ETHYL-
M WT 136
B PK 54
RANK 1
4971
PUR 518
C8.H10.0
BENZENE, 1-METHOXY-4-METHYL-
M WT 122
B PK 122
RANK 2
3116
PUR 497
C8.H10.0
PHENOL, 3,5-DIMETHYL-
M WT 122
B PK 122
RANK 3
3118
PUR 483
M/Z
40
60
80
100
120

LIBRARY SEARCH
08/07/85 12:53:00 + 10:51
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 651
CALI: EQ275 # 2

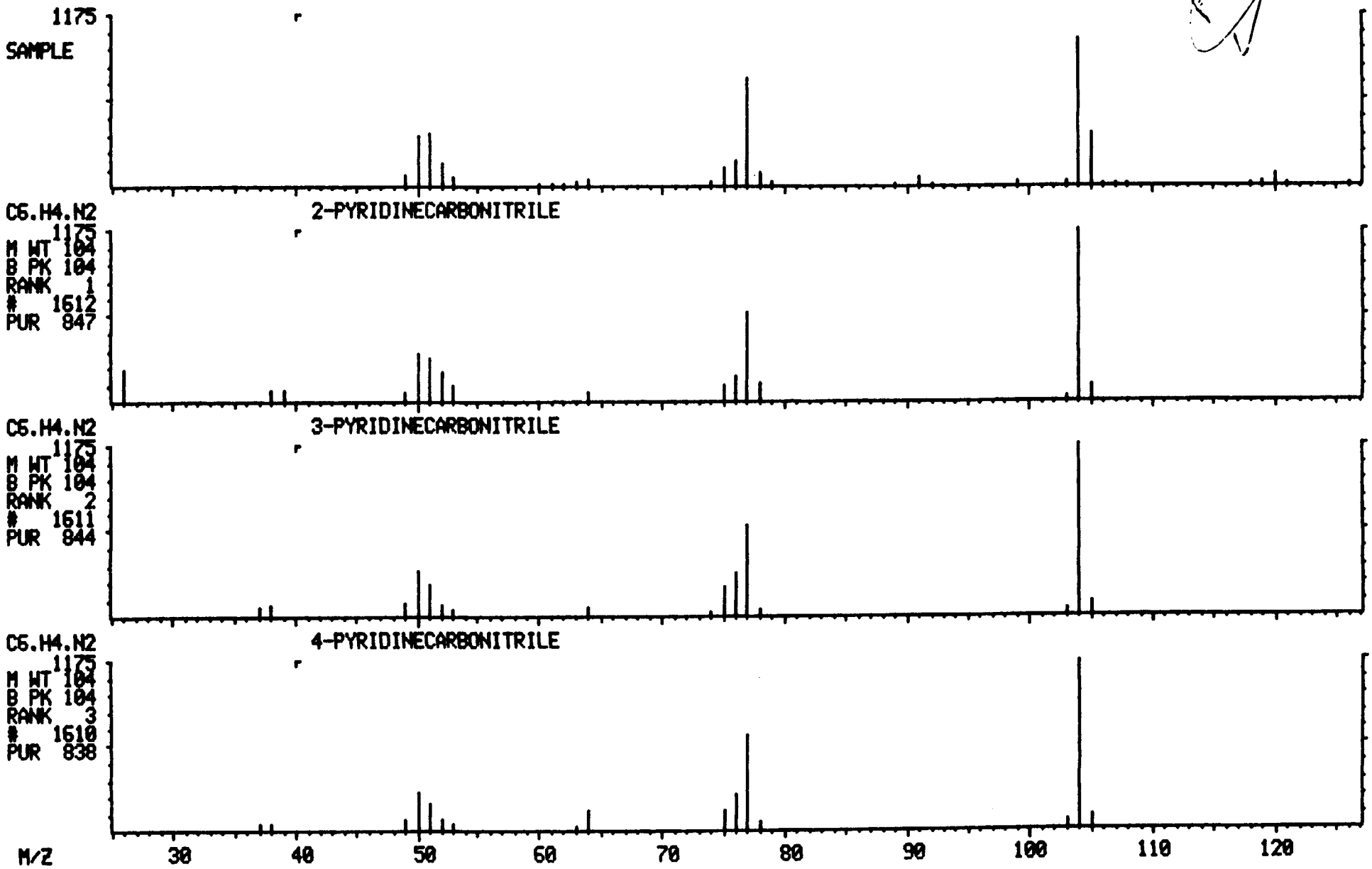
BASE M/Z: 82
RIC: 40511.



LIBRARY SEARCH
08/07/85 12:53:00 + 11:01
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 661
CALI: EQ275 # 2

BASE M/Z: 104
RIC: 80255.



LIBRARY SEARCH
00/07/85 12:53:00 + 11:42
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 702
CALI: EQ275 # 2

BASE M/Z: 41
RIC: 21311.

1477
SAMPLE

C10.H18.O2 CYCLOHEXANEETHANOL, ACETATE
1477
M WT 170
B PK 43
RANK 1
10666
PUR 552

C9.H18.O CYCLOHEXANE, (2-METHOXYETHYL)-
1477
M WT 142
B PK 45
RANK 2
6014
PUR 524

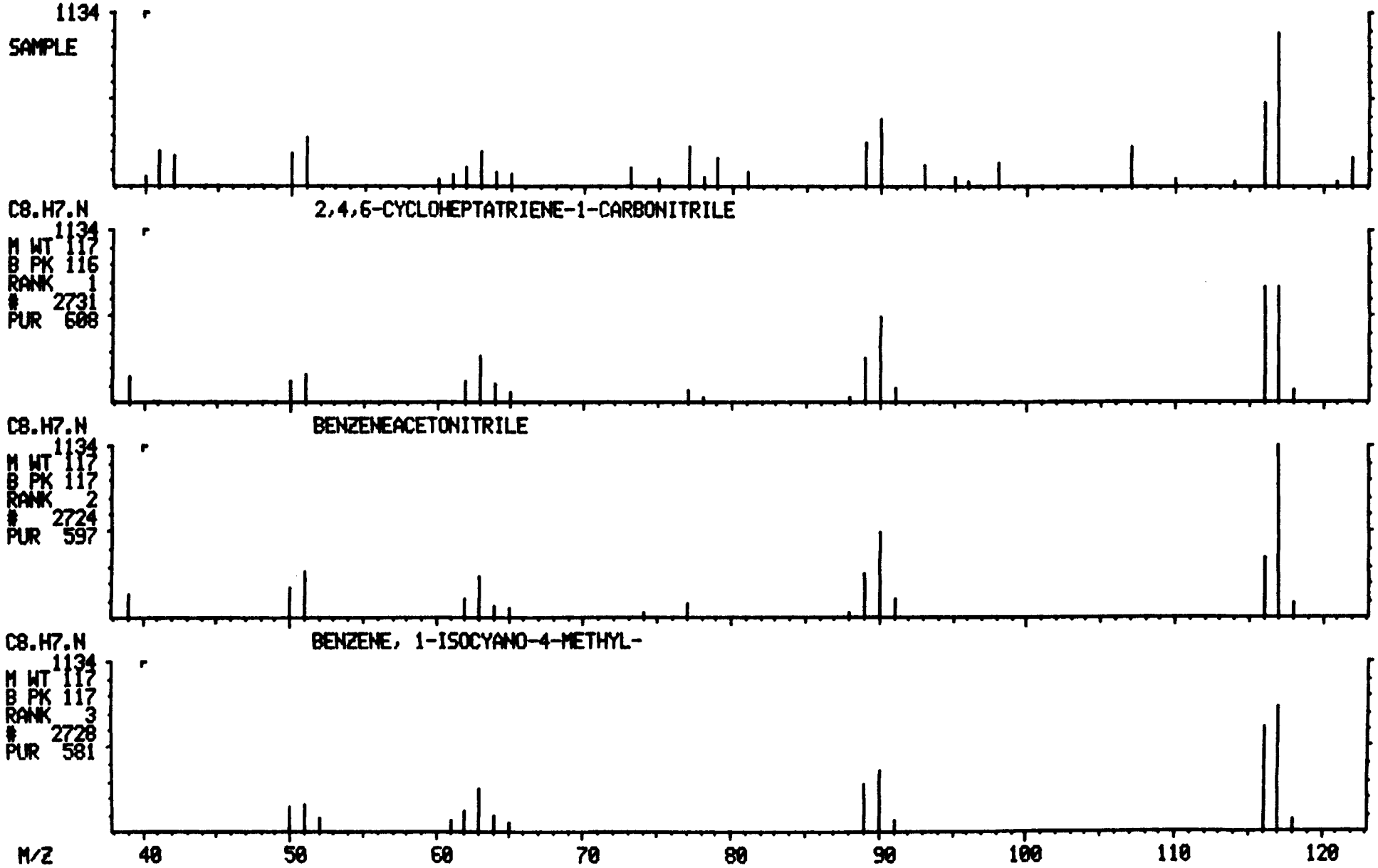
C8.H14.O2 3-HEXEN-1-OL, ACETATE, (E)-
1477
M WT 142
B PK 43
RANK 3
5912
PUR 517

M/Z 40 60 80 100 120 140 160

LIBRARY SEARCH
08/07/85 12:53:00 + 12:32
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 752
CALI: EQ275 # 2

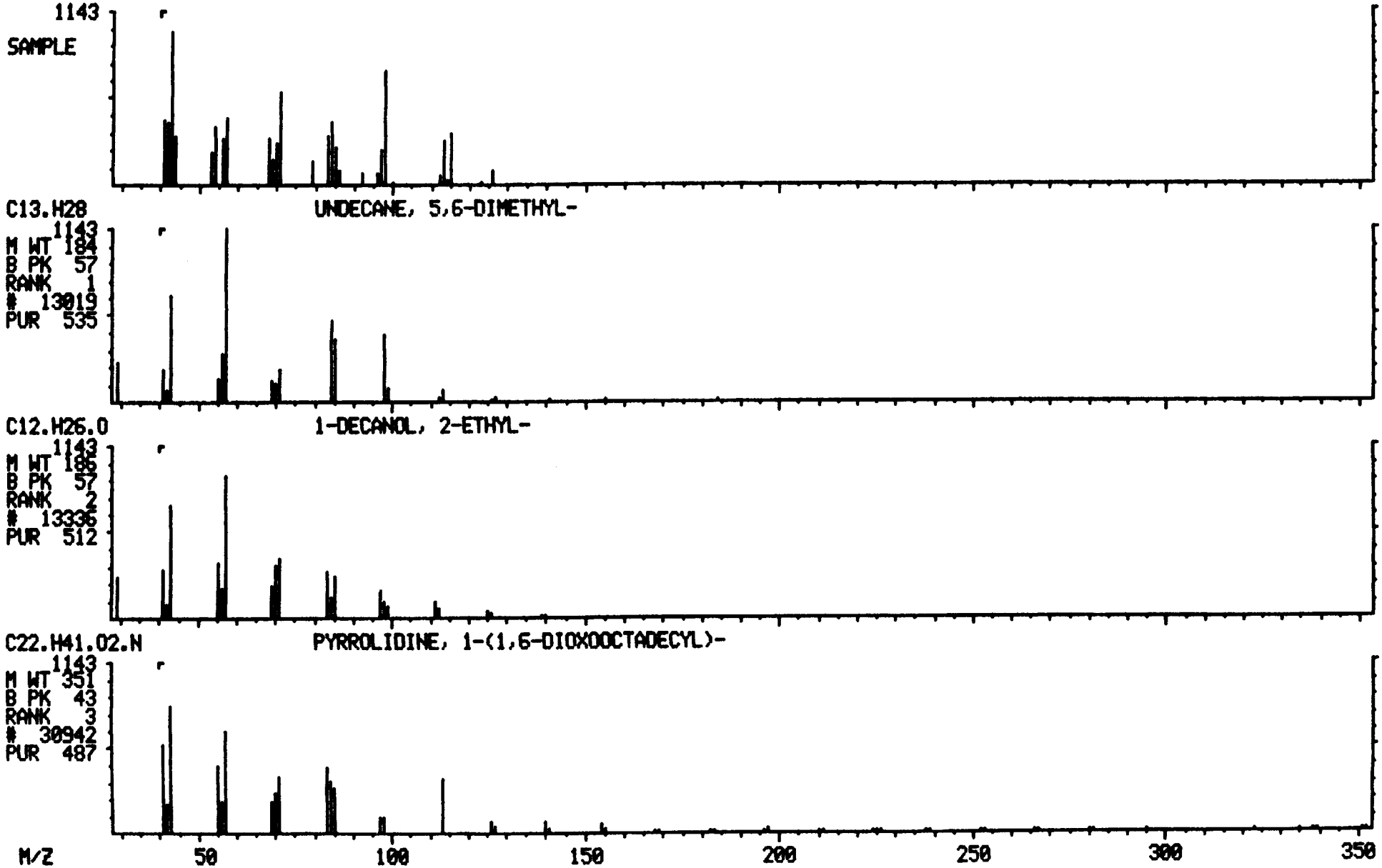
BASE M/Z: 117
RIC: 22239.



LIBRARY SEARCH
08/07/85 12:53:00 + 12:39
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 759
CALI: EQ275 # 2

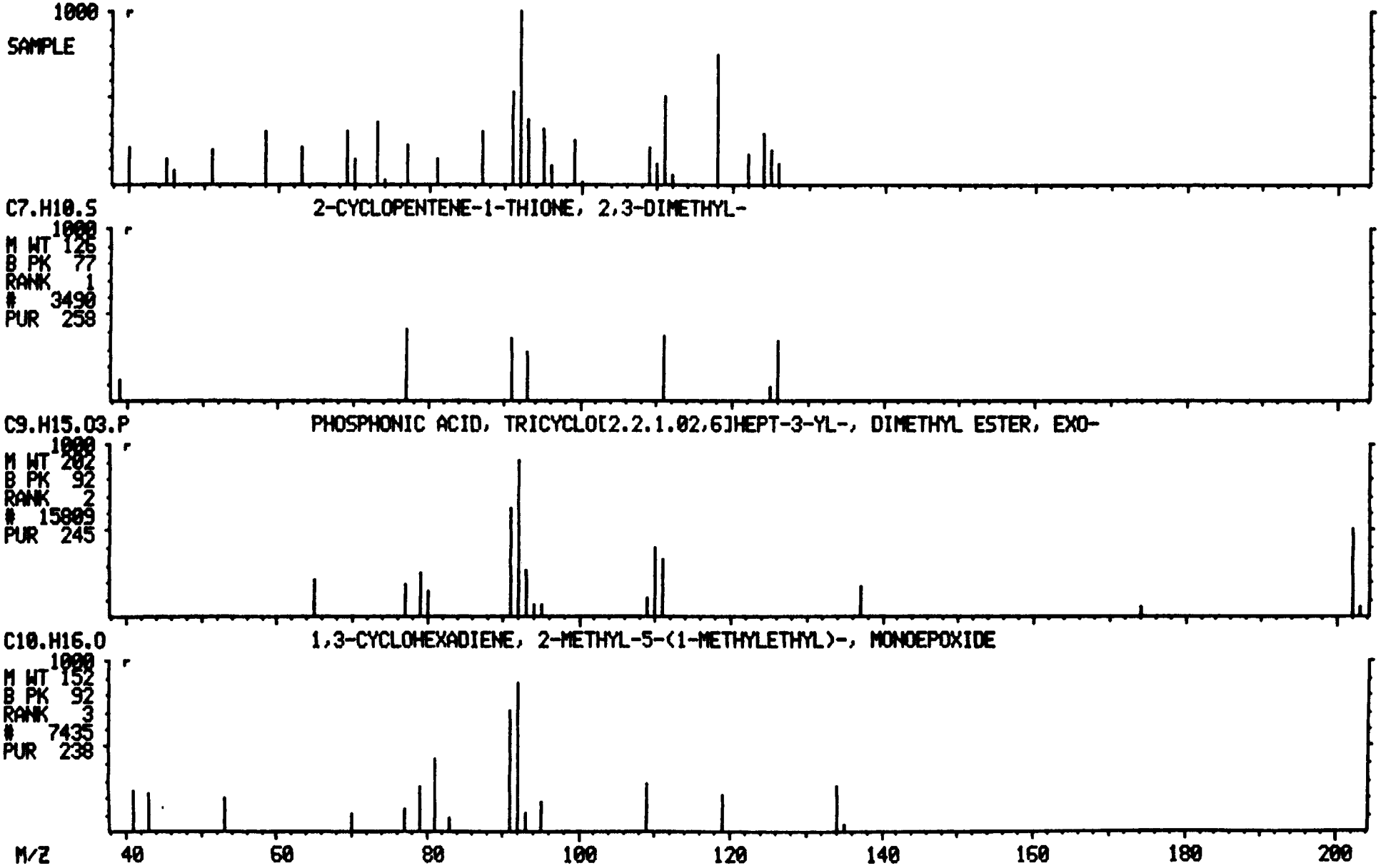
BASE M/Z: 43
RIC: 10895.



LIBRARY SEARCH
08/07/85 12:53:00 + 12:47
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 767
CALI: EQ275 # 2

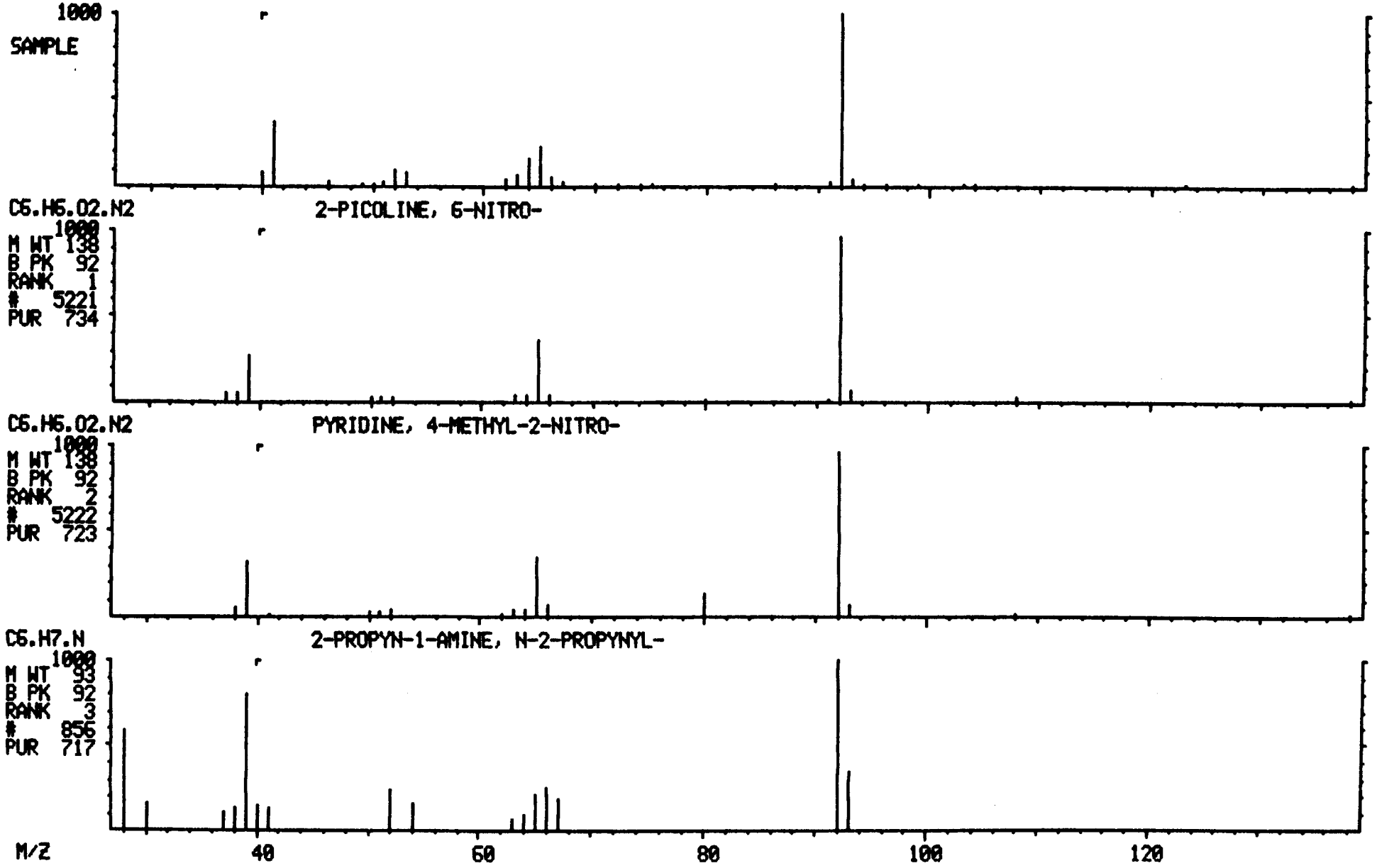
BASE M/Z: 92
RIC: 9071.



LIBRARY SEARCH
08/07/85 12:53:00 + 12:53
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 773
CALI: EQ275 # 2

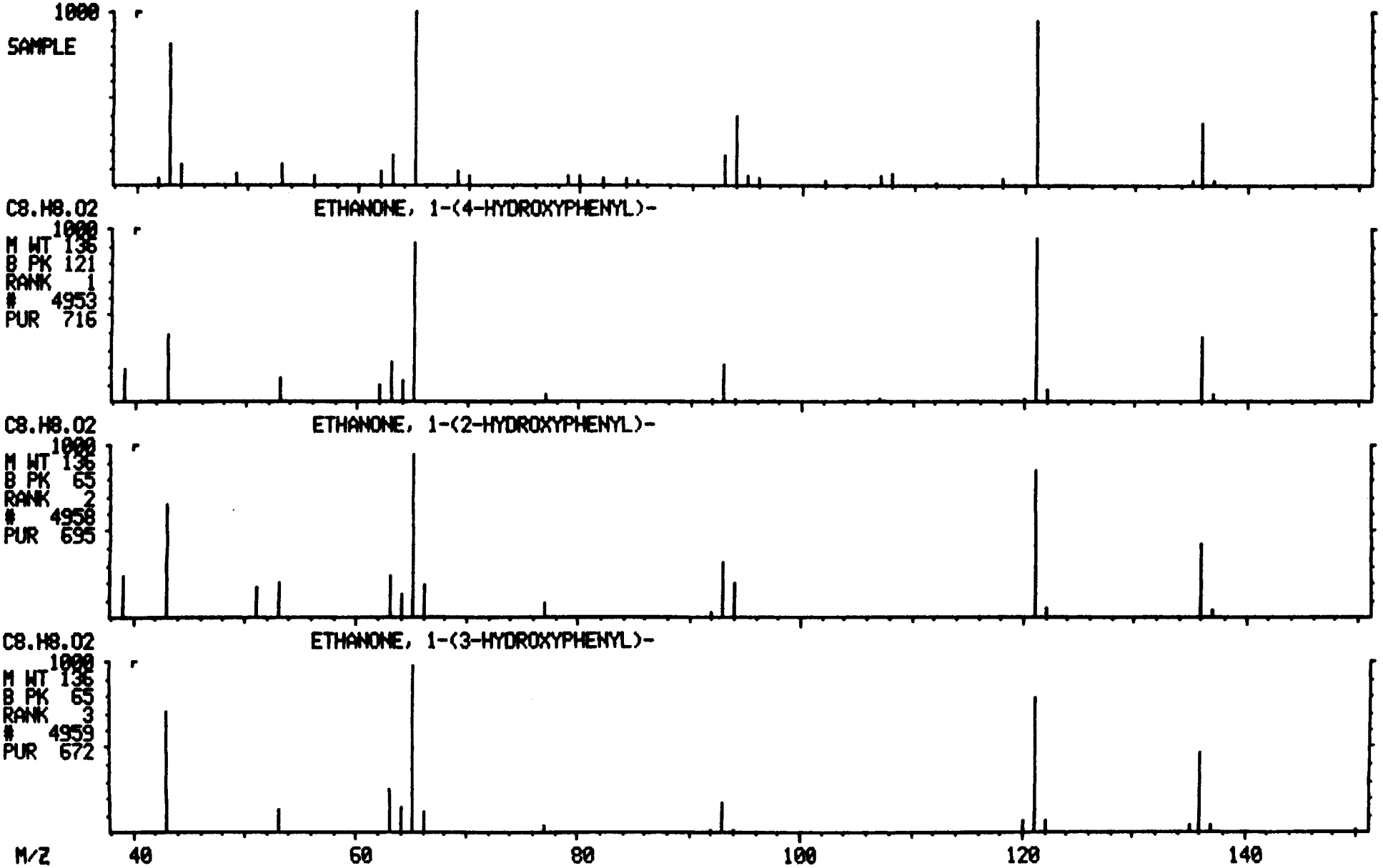
BASE M/Z: 92
RIC: 36991.



LIBRARY SEARCH
08/07/85 12:53:00 + 13:29
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/200/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 809
CALI: EQ275 # 2

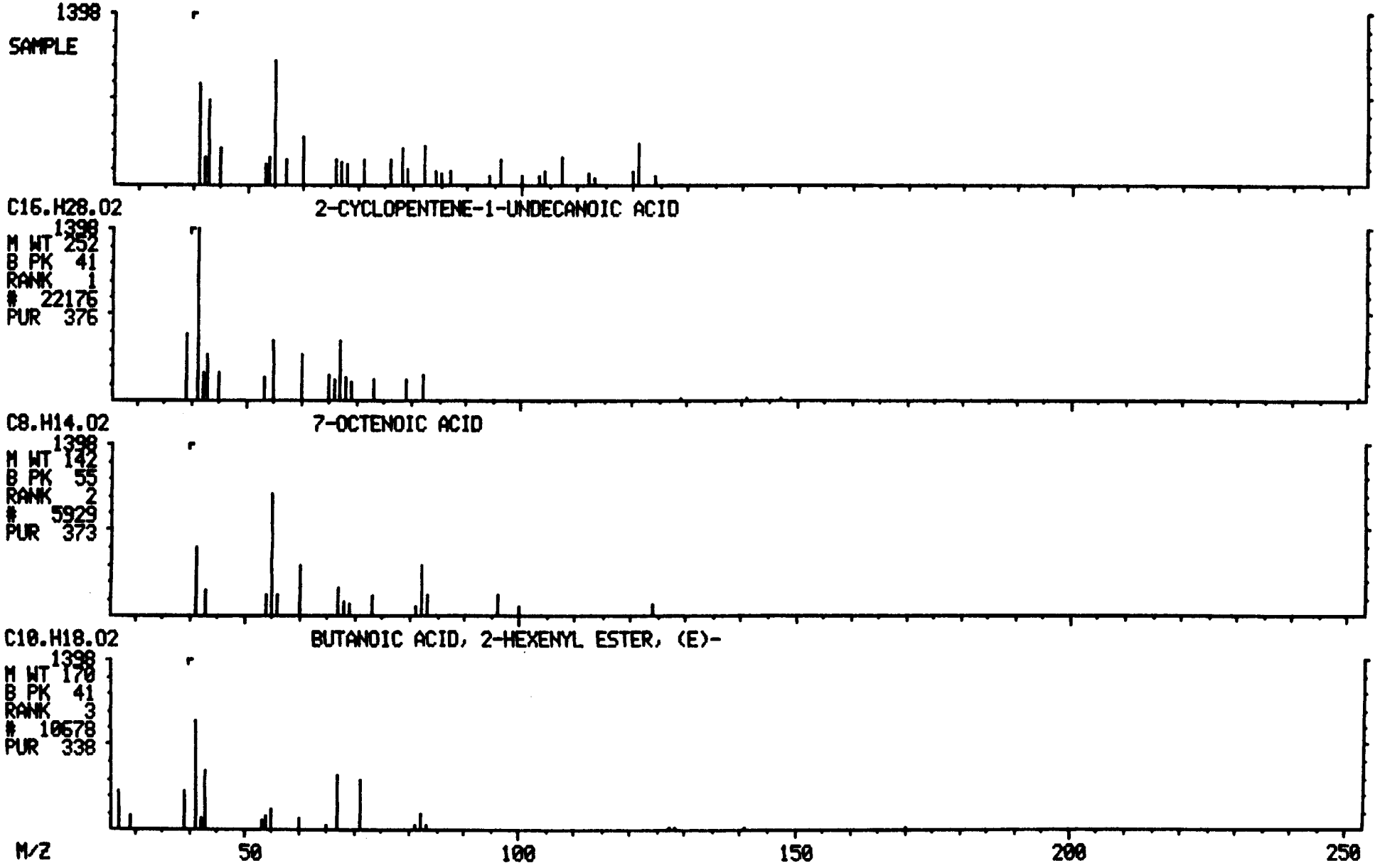
BASE M/Z: 65
RIC: 25823.



LIBRARY SEARCH
08/07/85 12:53:00 + 13:38
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 818
CALI: EQ275 # 2

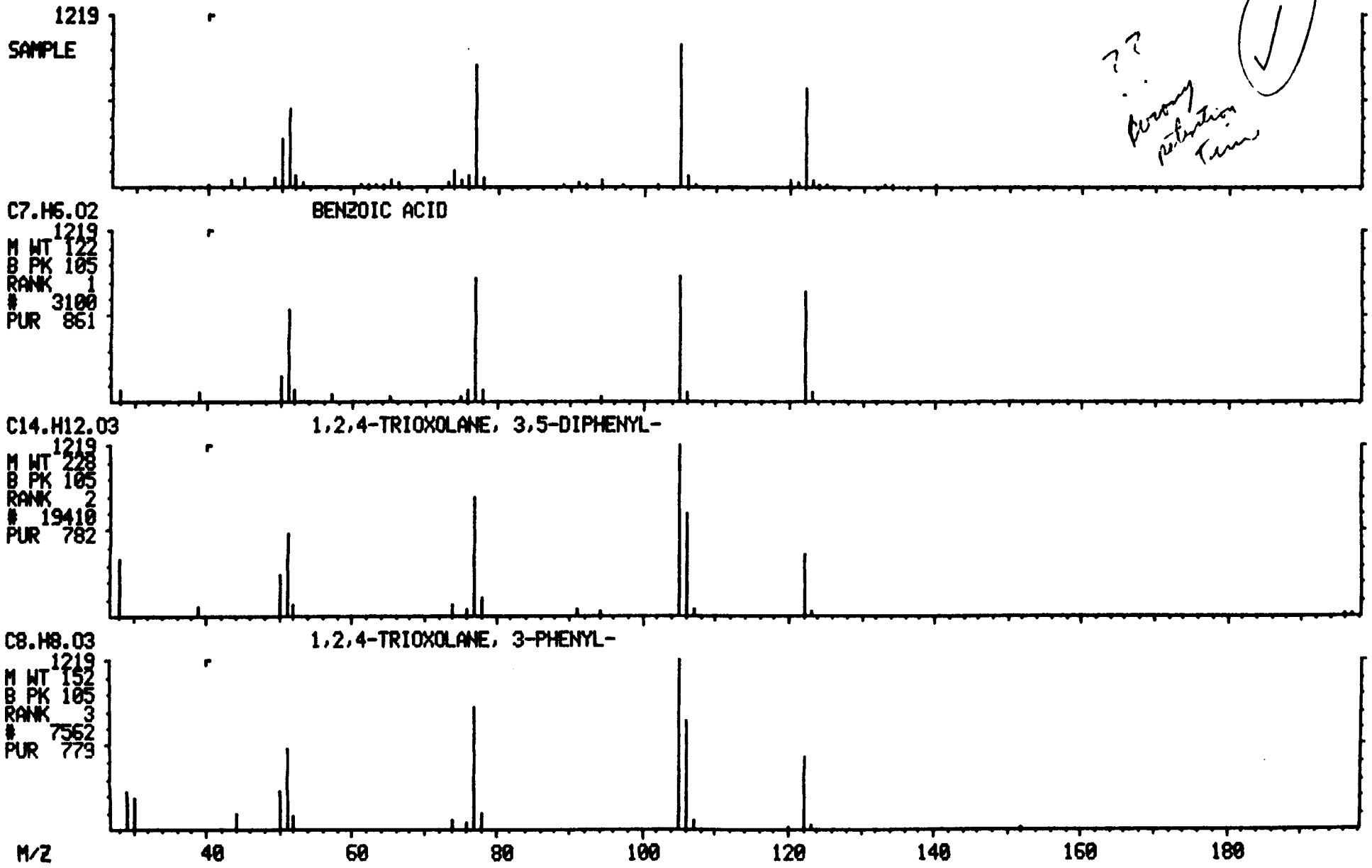
BASE M/Z: 55
RIC: 18943.

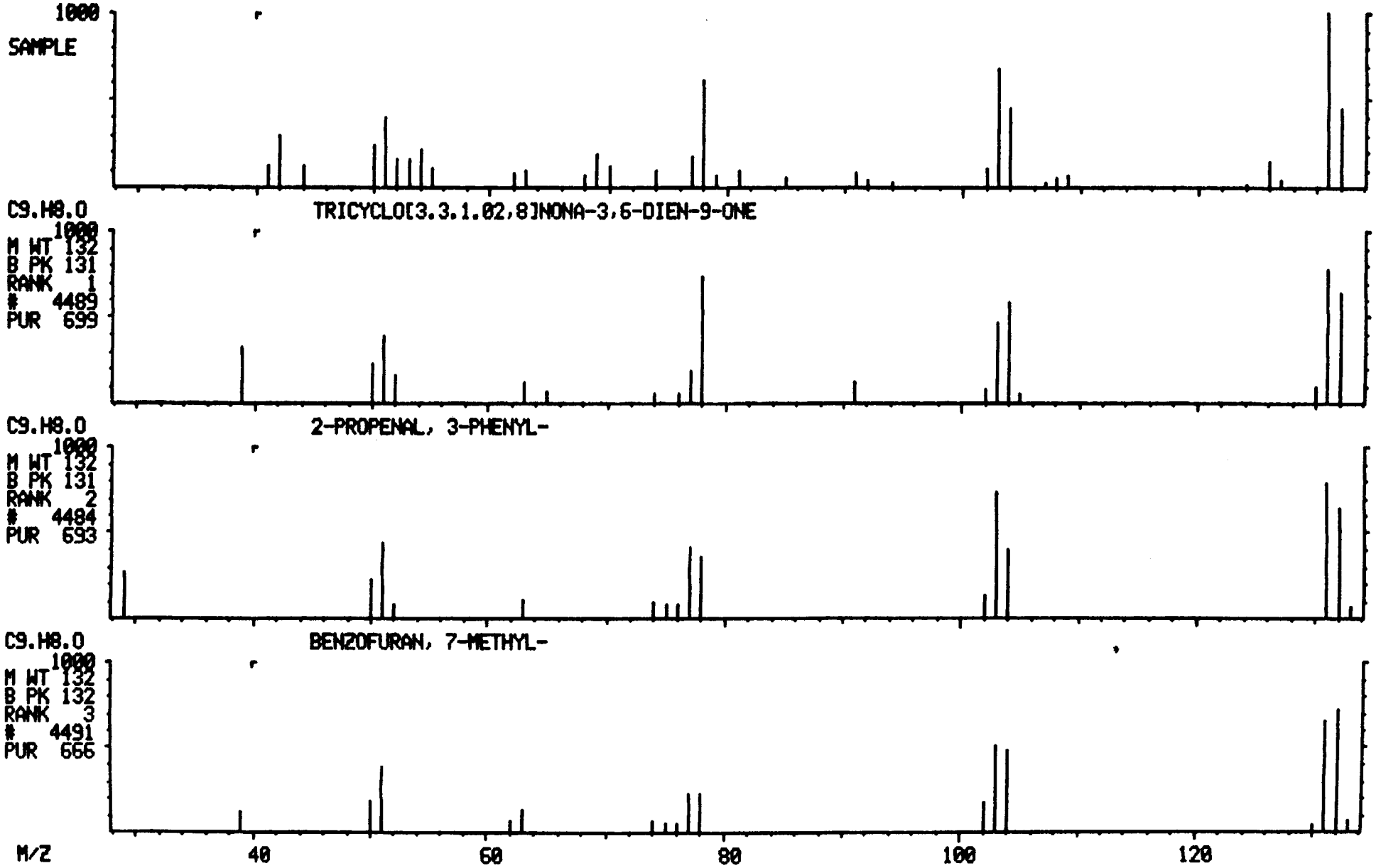


LIBRARY SEARCH
08/07/85 12:53:00 + 14:01
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 841
CALI: EQ275 # 2

BASE M/Z: 105
RIC: 107903.

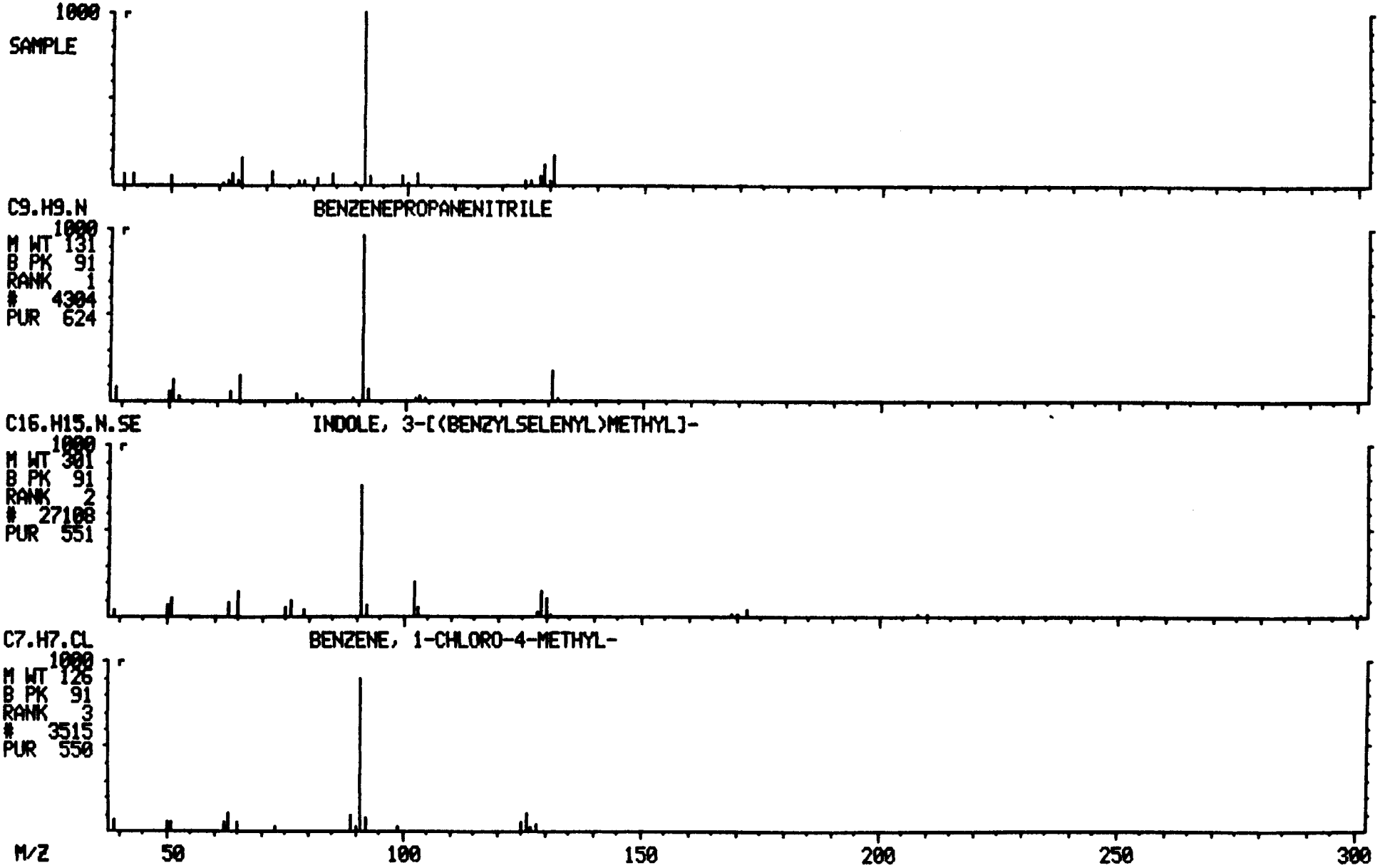



LIBRARY SEARCH
08/07/85 12:53:00 + 14:08
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)
DATA: EQ275 # 848
CALI: EQ275 # 2
BASE M/Z: 131
RIC: 24607.
1000
SAMPLE
C9.H8.O
TRICYCLO[3.3.1.02,8]NONA-3,6-DIEN-9-ONE
M WT 132
B PK 131
RANK 1
4489
PUR 699
C9.H8.O
2-PROPENAL, 3-PHENYL-
M WT 132
B PK 131
RANK 2
4484
PUR 693
C9.H8.O
BENZOFURAN, 7-METHYL-
M WT 132
B PK 132
RANK 3
4491
PUR 666
M/Z
40
60
80
100
120

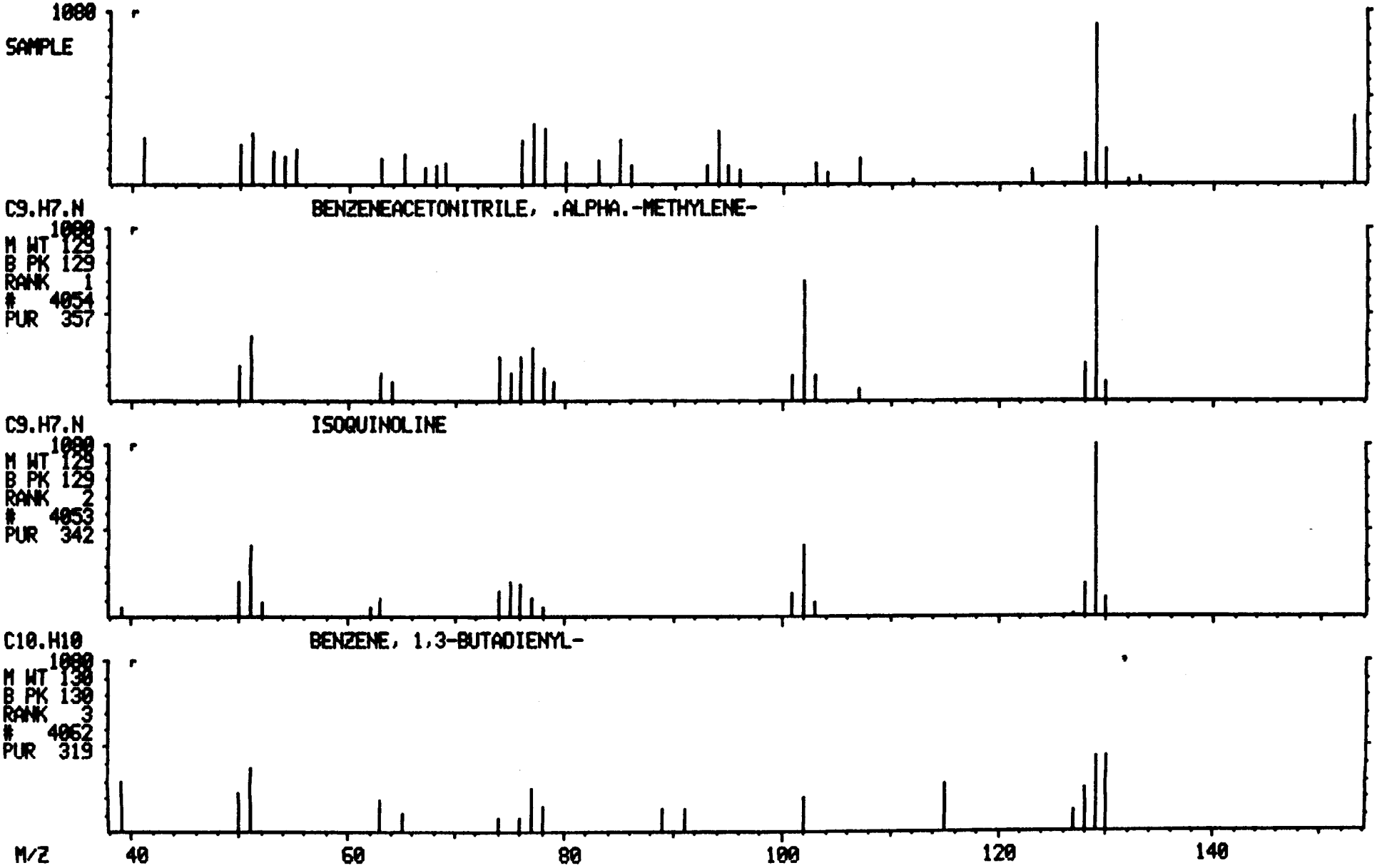
LIBRARY SEARCH
08/07/85 12:53:00 + 14:31
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 871
CALI: EQ275 # 2

BASE M/Z: 91
RIC: 8591.



LIBRARY SEARCH
08/07/85 12:53:00 + 14:37
SAMPLE: Y167, PCIO-3, .5ML EA + 20UL IS #390, 2UL INJ.
CONDS.: 40/4/8/200/30/280/17, 2600 1 SEC SCANS 40-450M/Z
ENHANCED (S 15B 2N 0T)

DATA: EQ275 # 877
CALI: EQ275 # 2

BASE M/Z: 129
RIC: 12431.